



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

June 2, 2022

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

RE: Tower Share Application
15 Kluge Road, Prospect, CT 06712
Latitude: 41.471230
Longitude: -72.971936
Site #: 876378_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 15 Kluge Road, Prospect, Connecticut.

Dish Wireless LLC proposes to install three (3) 600/1900 MHz 5G antennas and six (6) RRUs, at the 170-foot level of the existing 190-foot monopole 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 base of the stealth structure. Included are plans by NB+C, dated April 6, 2022, Exhibit C. Also included is a structural analysis prepared by Crown Castle, dated May 24, 2022, confirming that the existing tower is structurally capable of supporting the proposed equipment. Attached as Exhibit D. The facility was approved by the Town of Prospect Planning & Zoning Commission on June 16, 1999. Please see attached Exhibit A.

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies 16-50aa, of Dish Wireless LLC intent to share a telecommunications facility pursuant to R.C.S.A. 16-50j-88. In accordance with R.C.S.A., a copy of this letter is being sent to Mayor Robert Chatfield and Mary Barton, Land Use Inspector for the Town of Prospect, as well as the tower owner (Crown Castle) and property owner (Marie J Kluge).

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 190-feet and the Dish Wireless LLC antennas will be located at a centerline height of 170-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 3.57% 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 Prospect. 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 170-foot level of the existing 190-foot tower would have an insignificant visual impact on the area around the tower. Dish Wireless LLC ground equipment would be installed within the existing facility compound. Dish Wireless LLC shared use would therefore not cause any significant alteration in the physical or environmental characteristics of the existing site. Additionally, as evidenced by Exhibit F, the proposed antennas would not increase radio frequency emissions to a level at or above the Federal Communications Commission safety standard.

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

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

Sincerely,

Denise Sabo

Denise Sabo

Mobile: 203-435-3640

Fax: 413-521-0558

Office: 4 Angela's Way, Burlington CT 06013

Email: denise@northeastitesolutions.com



NSS

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SITE SOLUTIONS

Turnkey Wireless Development

Attachments

Cc: Mayor Robert Chatfield
Prospect Town Hall
36 Center Street
Prospect, CT 06712

Mary Barton, Land Use Inspector
Prospect Town Hall
36 Center Street
Prospect, CT 06712

Marie J Kluge, Property Owner
15 Kluge Road
Prospect, CT 06712

Crown Castle, Tower Owner

Exhibit A

Original Facility Approval

NOTICE OF APPROVAL

Property Owner: David T. Kluge
Property Location: 15 Kluge Road
Date of Approval: June 16, 1999
Date of Notice: June 21, 1999

RESOLVED TO APPROVE, request for Special Permit under Section 300 for a Telecommunications Monopole and supporting equipment within a 100' x 100' parcel of land on property located at **15 Kluge Road** in a residential zone and accessed from Kluge Road. Owner: David T. Kluge. Authorized agent: Sprint Spectrum LP, Crossroads Corporate Center, One International Blvd., Suite 800, Mahwah, NJ 07495

PROVIDED THAT:

1. The height of the monopole will be approximately 190 feet above ground level. Antennae or other mounted equipment can exceed the 190-foot height, but may not exceed 200 feet above ground elevation.
2. The monopole and any attached antennae exceeding the tower's height must be located a distance from the property line at least equal to the tower's height, including attached antennae. No structure, other than those associated with this installation, may be placed within the fall radius of the monopole and monopole attachments.
3. Utility connections from the property line to the proposed installation will be below ground.
4. The monopole will meet the design standards of the National Standards Institute and meet all pertinent FCC requirements.
5. Prior to the initiation of any construction activity all erosion and sedimentation control measures shall be properly installed and fully functioning, and said measures shall be maintained in effective condition throughout the construction process.
6. An accessway at least 12 feet wide and secured by a gate and/or other means shall be maintained for passage of police, fire or other emergency equipment. Additional security fencing will be installed at the facility. Town officials must have a means to access the property in the event of an emergency.
7. On-site storage of fuel or chemicals for any reason is prohibited.
8. All future tenant occupants must apply for and receive a Zoning Permit from the Land Use Inspector prior to their installation of equipment cabinets and antennas. Installation plans must also be submitted to Prospect's Building Official for approval.

9. The above-listed agent will be responsible for, and ensure his facility and his tenants, comply with all FCC standards and guidelines for wireless facilities. Upon termination of the lease, or should the agent abandon use of the facility, Sprint Spectrum LP as agent, shall remove all apparatus and above-ground structures from the site and restore the leased space to its original condition.

Reasons: In granting the above Special Permit, the Planning & Zoning Commission of the Town of Prospect wishes to state upon its records that in the Commission's judgement, the subject project complies with Prospect's zoning regulations, provides an acceptable facility for additional wireless communications providers to co-locate onto and will not exert a detrimental effect on the development of the area nor on the value of nearby properties.


Edward Miller 
Edward Miller, Chairman
Planning & Zoning Commission

Exhibit B

Property Card

The Assessor's office is responsible for the maintenance of records on the ownership of properties. Assessments are computed at 70% of the estimated market value of real property at the time of the last revaluation which was 2020.



www.townofprospect.org

Information on the Property Records for the Municipality of Prospect was last updated on 6/2/2022.



Parcel Information

Location:	15 KLUGE RD	Property Use:	Residential	Primary Use:	Residential
Unique ID:	K0154000	Map Block Lot:	112 74 15	Acres:	35.00
490 Acres:	29.88	Zone:	RA-1	Volume / Page:	0799/0218
Developers Map / Lot:		Census:	3472		
Location:	15 KLUGE RD	Property Use:	Residential	Primary Use:	Residential
Unique ID:	K0154000	Map Block Lot:	112 74 15	Acres:	35.00
490 Acres:	29.88	Zone:	RA-1	Volume / Page:	0799/0218
Developers Map / Lot:		Census:	3472		

Value Information

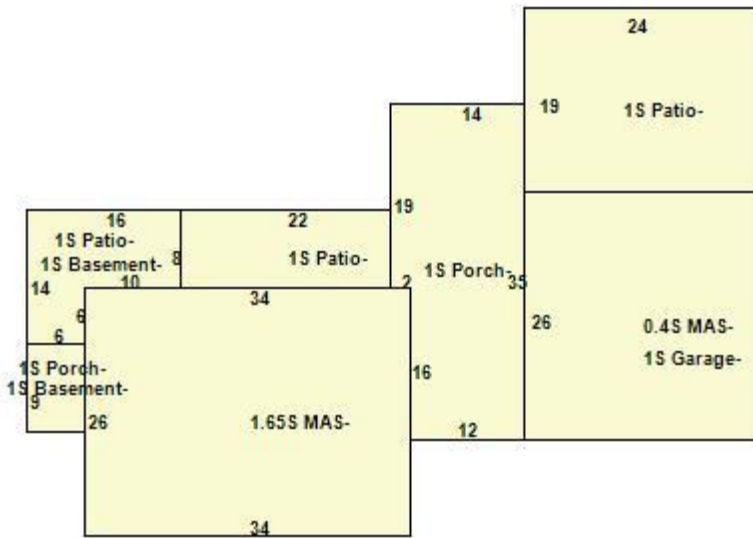
	Appraised Value	Assessed Value
Land	213,772	113,870
Buildings	120,226	84,160
Detached Outbuildings	300,000	210,000
Total	633,998	408,030

Owner's Information

Owner's Data

KLUGE MARIE J L/U
ERICA PERYGA F/K/A/ ERICA KLUGE
15 KLUGE RD
PROSPECT CT 06712

Building 1



Building Use:	Single Family	Style:	Cape	Living Area:	1,708
Stories:	1.65	Construction:	Masonry	Year Built:	1946
Total Rooms:	7	Bedrooms:	3	Full Baths:	1
Half Baths:	1	Fireplaces:	1	Heating:	Hot Water
Fuel:	Oil	Cooling Percent:	0	Basement Area:	0

Basement Finished Area:	0	Basement Garages:	0	Roof Material:	
Siding:	Concrete Block	Units:			

Special Features

Fireplace	1
Generator	1

Attached Components

Type:	Year Built:	Area:
Extension Basement	1946	164
Extension Basement	1946	54
Dormer	1946	40
Frame Garage	1946	624
Concrete/Masonry Patio	1946	176
Concrete/Masonry Patio	1946	164
Concrete/Masonry Patio	2008	456
Enclosed Porch	1946	458
Enclosed Porch	1946	54

Detached Outbuildings

Type:	Year Built:	Length:	Width:	Area:
Cell Tower	1999	0.00	0.00	1

Owner History - Sales

Owner Name	Volume	Page	Sale Date	Deed Type	Sale Price
KLUGE MARIE J L/U	0799	0218	02/14/2017	Quit Claim	\$0
KLUGE MARIE J	0798	0170	01/18/2017	Quit Claim	\$0
PERYGA ERICA F/K/A/ ERICA KLUGE	0781	0115	03/21/2016	Quit Claim	\$0
KLUGE MARIE J	0516	0199	03/21/2016	Certificate of Devise	\$0
KLUGE MARIE J	0516	0198	01/19/2005	Certificate of Devise	\$0
KLUGE DAVID T EST OF	0360	0247	10/26/2000	Probate	\$0
KLUGE DAVID T	0049	0177	03/31/1971	Quit Claim	\$0

Building Permits

Permit Number	Permit Type	Date Opened	Reason
22 20E	Electrical	03/02/2022	200A SERVICE & GENERATOR FOR CELL SITE CT33XC514
22 4B	Electrical	01/10/2022	AT&T ADDING (9) ANTENNAS (9) REMOTE RADIO HEADS (2) DCSQUIDS (6) DC CABLES (2) FIBER CABLES AT&T A
21 134B	Electrical	05/28/2021	ENHANCE BROADBAND CONNECTIVITY & CAPACITY TO EXISTING WIRELESS FACILITY
7480	Electrical	01/28/2016	INSTALL 6 NEW ANTENNAS REPLACE 6 EXISTING TMA S 3 NEW BIAS TEES 6 NEW COAX
7305	Commercial Addition	06/22/2015	INSTALLATION OF 3 ANTENNAS 3 BIAS TEES 6 COAX LINES & 1 CABINET
7137	Commercial Addition	10/01/2014	ADD (3) ANTENNAS 3 REMOTE RADIO HEADS & 1 CABLE TO SPRINTS EXISTING CONFIG
6749	Commercial Addition	12/14/2012	ANTENNA & APPURTENANCE ADDITION ON EXISTING CELL TOWER/ADD'N TO OUTDOOR EQUIP
3851	Commercial Addition	05/15/1900	ADDED CO-LOCATOR & GROUND EQUIPMENT TO EXISTING MONOPOLE. INCOME INTENSIVE USE WITH TOWER. 350,000

15 KLUGE ROAD, PROSPECT, CT

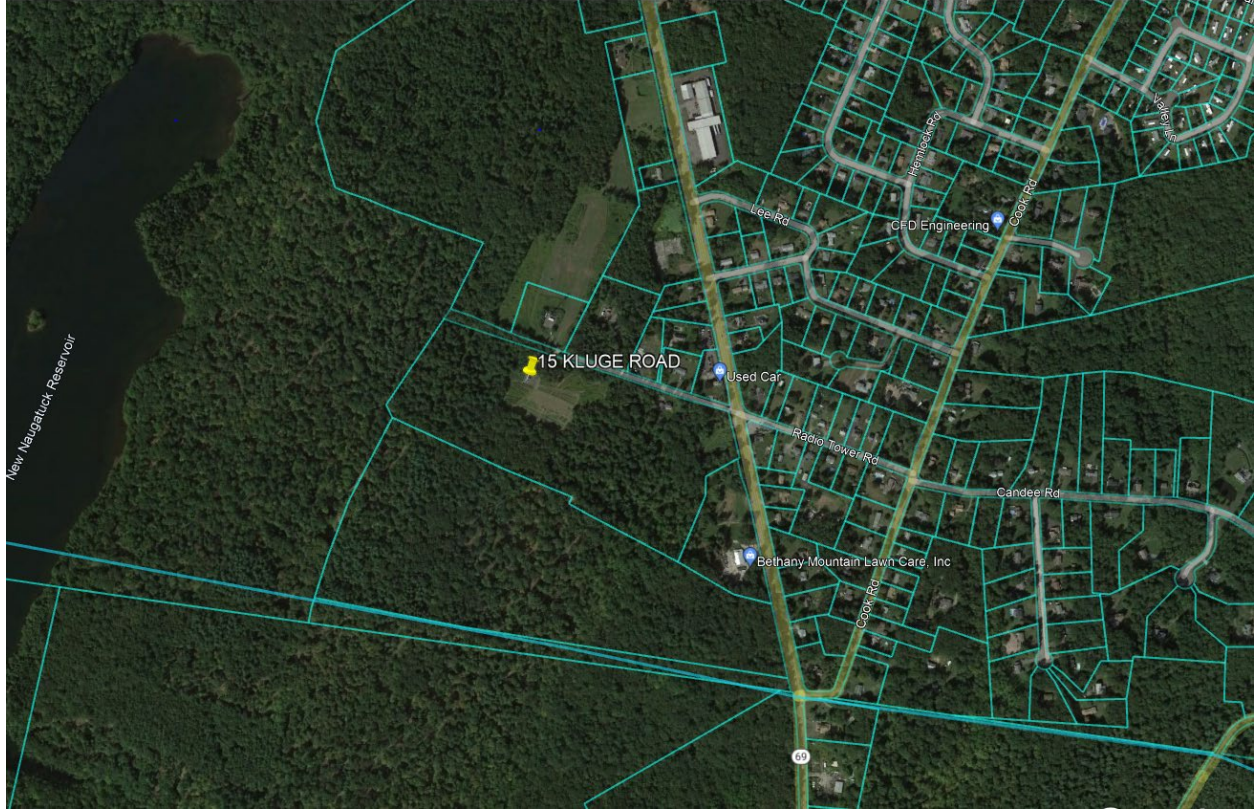


Exhibit C

Construction Drawings



DISH Wireless L.L.C. SITE ID:
BOHVN00029A

DISH Wireless L.L.C. SITE ADDRESS:
**15 KLUGE ROAD
PROSPECT, CT 06712**

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 RRUs (2 PER SECTOR) • INSTALL (1) PROPOSED OVER VOLTAGE PROTECTION DEVICE (OVP) • INSTALL (1) PROPOSED HYBRID CABLE • INSTALL (3) DOUBLE Z-BRACKETS (1 PER SECTOR)
GROUND SCOPE OF WORK: <ul style="list-style-type: none"> • INSTALL (1) PROPOSED METAL PLATFORM • INSTALL (1) PROPOSED ICE BRIDGE • INSTALL (1) PROPOSED PPC CABINET • INSTALL (1) PROPOSED EQUIPMENT CABINET • INSTALL (1) PROPOSED POWER CONDUIT • INSTALL (1) PROPOSED TELCO CONDUIT • INSTALL (1) PROPOSED TELCO-FIBER BOX • INSTALL (1) PROPOSED GPS UNIT • INSTALL (1) PROPOSED FIBER NID (IF REQUIRED) • INSTALL (1) PROPOSED SAFETY SWITCH (IF REQUIRED) • INSTALL (1) PROPOSED DISCONNECT • UTILIZE EXISTING EMPTY METER SOCKET

SITE INFORMATION	PROJECT DIRECTORY
PROPERTY OWNER: KLUGE, MARIE ADDRESS: 15 KLUGE RD PROSPECT, CT 06712	APPLICANT: DISH Wireless L.L.C. 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: 876378	SITE DESIGNER: NB+C ENGINEERING SERVICES, LLC 6095 MARSHALEE DRIVE, SUITE 300 ELKRIDGE, MD 21075 (410) 712-7092
TOWER APP NUMBER: 553369	SITE ACQUISITION: CORWIN DIXON CORWIN.DIXON@CROWNCastle.COM
COUNTY: NEW HAVEN	CONSTRUCTION MANAGER: JAVIER SOTO JAVIER.SOTO@DISH.COM
LATITUDE (NAD 83): 41° 28' 16.6" N 41.471266 N	RF ENGINEER: SYED ZAIDI SYED.ZAIDI@DISH.COM
LONGITUDE (NAD 83): -72° 58' 18.9" W -72.971919 W	
ZONING JURISDICTION: CONNECTICUT SITING COUNCIL	
ZONING DISTRICT: RA-1 - RESIDENTIAL	
PARCEL NUMBER: PROS-000154-K000000	
OCCUPANCY GROUP: U	
CONSTRUCTION TYPE: II-B	
POWER COMPANY: EVERSOURCE	
TELEPHONE COMPANY: TBD	



5701 SOUTH SANTA FE DRIVE
LITTLETON, CO 80120



NB+C ENGINEERING SERVICES, LLC.
6095 MARSHALEE DRIVE, SUITE 300
ELKRIDGE, MD 21075
(410) 712-7092



04/06/2022
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: BPC	CHECKED BY: BRN	APPROVED BY: TA
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RFDS REV #: ---

CONSTRUCTION DOCUMENTS

SUBMITTALS		
REV	DATE	DESCRIPTION
0	11/09/2021	ISSUED FOR CONSTRUCTION
1	04/06/2022	ISSUED FOR CONSTRUCTION

A&E PROJECT NUMBER
876378

DISH Wireless L.L.C.
PROJECT INFORMATION
**BOHVN00029A
15 KLUGE ROAD
PROSPECT, CT 06712**

SHEET TITLE
TITLE SHEET

SHEET NUMBER
T-1



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 WATERBURY-OXFORD AIRPORT:
START OUT GOING SOUTHWEST ON CHRISTIAN ST. TAKE THE 1ST RIGHT ONTO OXFORD AIRPORT RD. TURN RIGHT ONTO STRONGTOWN RD/CT-188. MERGE ONTO I-84 E TOWARD WATERBURY. TAKE EXIT 23. KEEP LEFT AT THE FORK IN THE RAMP. TURN RIGHT ONTO HAMILTON AVE/CT-69. TURN RIGHT ONTO KLUGE RD. 15 KLUGE RD IS ON THE LEFT.

VICINITY MAP

SITE LOCATION

NO SCALE

CONNECTICUT CODE OF COMPLIANCE

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

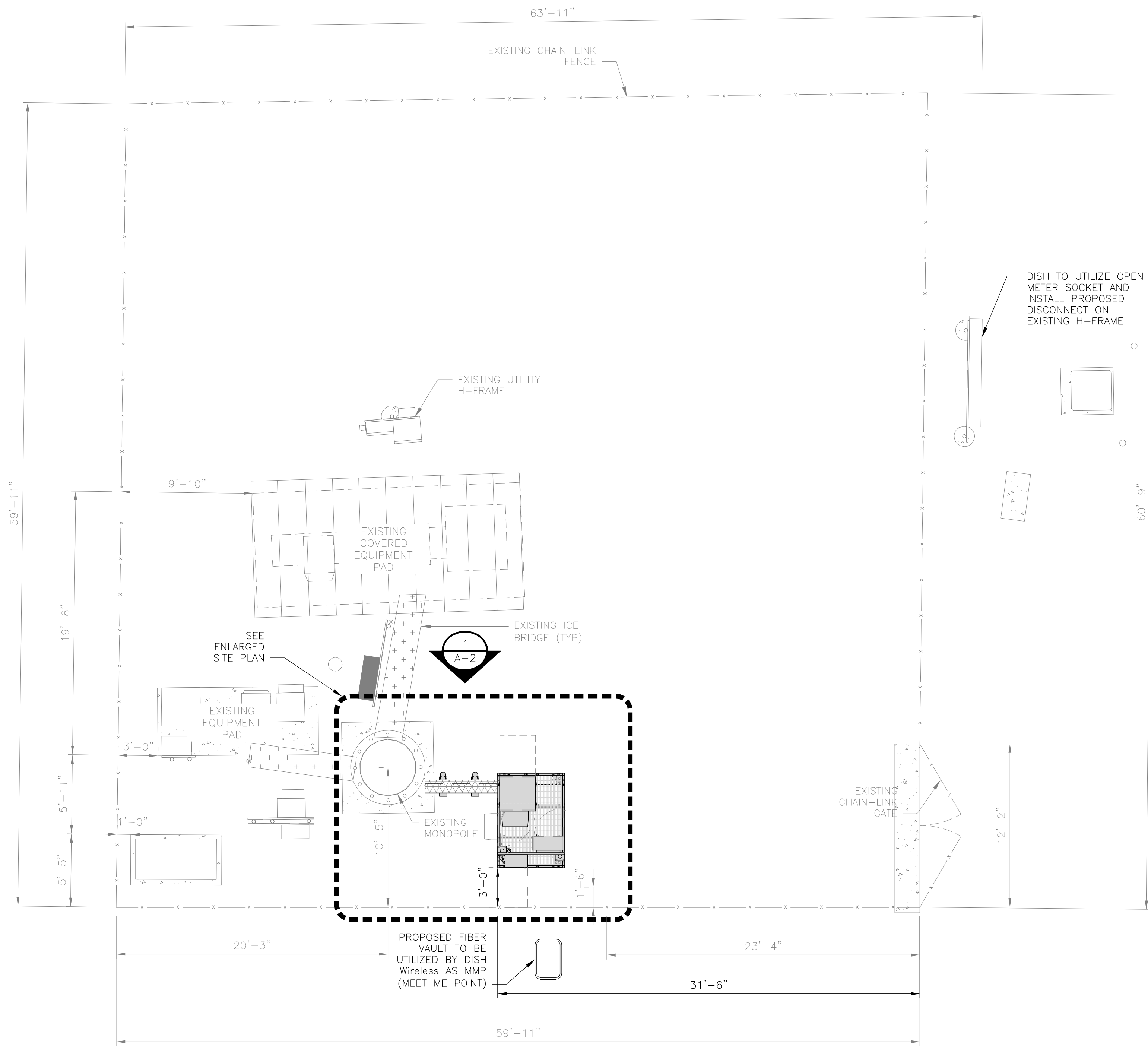
CODE	TYPE	CODE
BUILDING	2018 CT STATE BUILDING CODE/2015 IBC W/ CT AMENDMENTS	
MECHANICAL	2018 CT STATE BUILDING CODE/2015 IMC W/ CT AMENDMENTS	
ELECTRICAL	2018 CT STATE BUILDING CODE/2017 NEC W/ CT AMENDMENTS	

SHEET INDEX

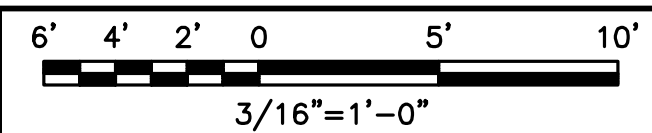
SHEET NO.	SHEET TITLE
T-1	TITLE SHEET
A-1	OVERALL AND ENLARGED SITE PLAN
A-2	ELEVATION, ANTENNA LAYOUT AND SCHEDULE
A-3	EQUIPMENT PLATFORM AND H-FRAME DETAILS
A-4	EQUIPMENT DETAILS
A-5	EQUIPMENT DETAILS
A-6	EQUIPMENT DETAILS
E-1	ELECTRICAL/FIBER ROUTE PLAN AND NOTES
E-2	ELECTRICAL DETAILS
E-3	ELECTRICAL 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

NOTES

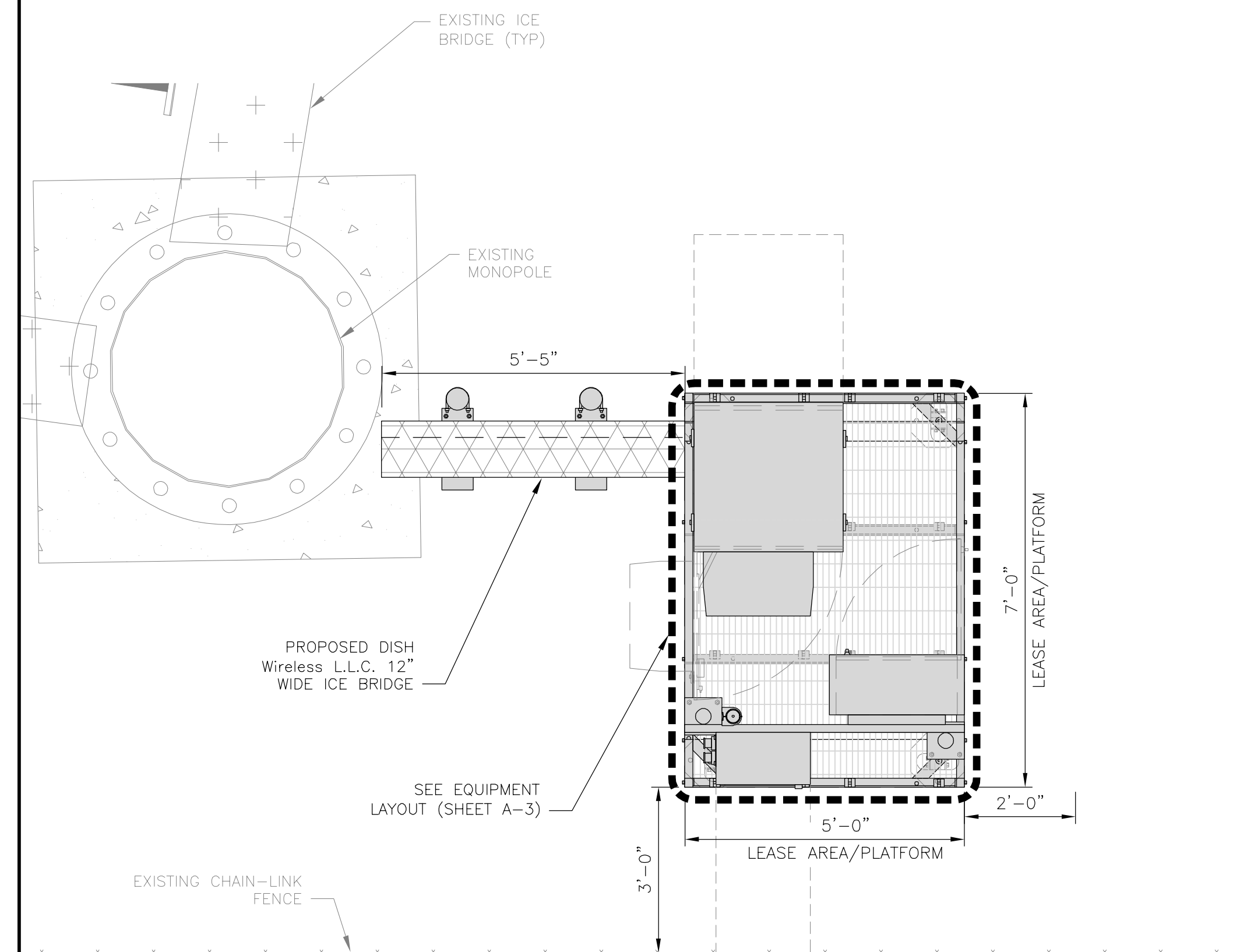
1. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.
2. CONTRACTOR SHALL MAINTAIN A 10'-0" MINIMUM SEPARATION BETWEEN THE PROPOSED GPS UNIT, TRANSMITTING ANTENNAS AND EXISTING GPS UNITS.
3. ANTENNAS AND MOUNTS OMITTED FOR CLARITY.



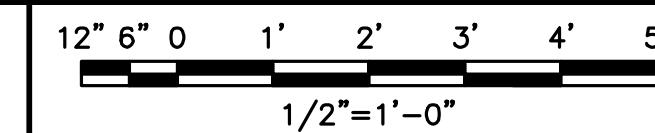
OVERALL SITE PLAN



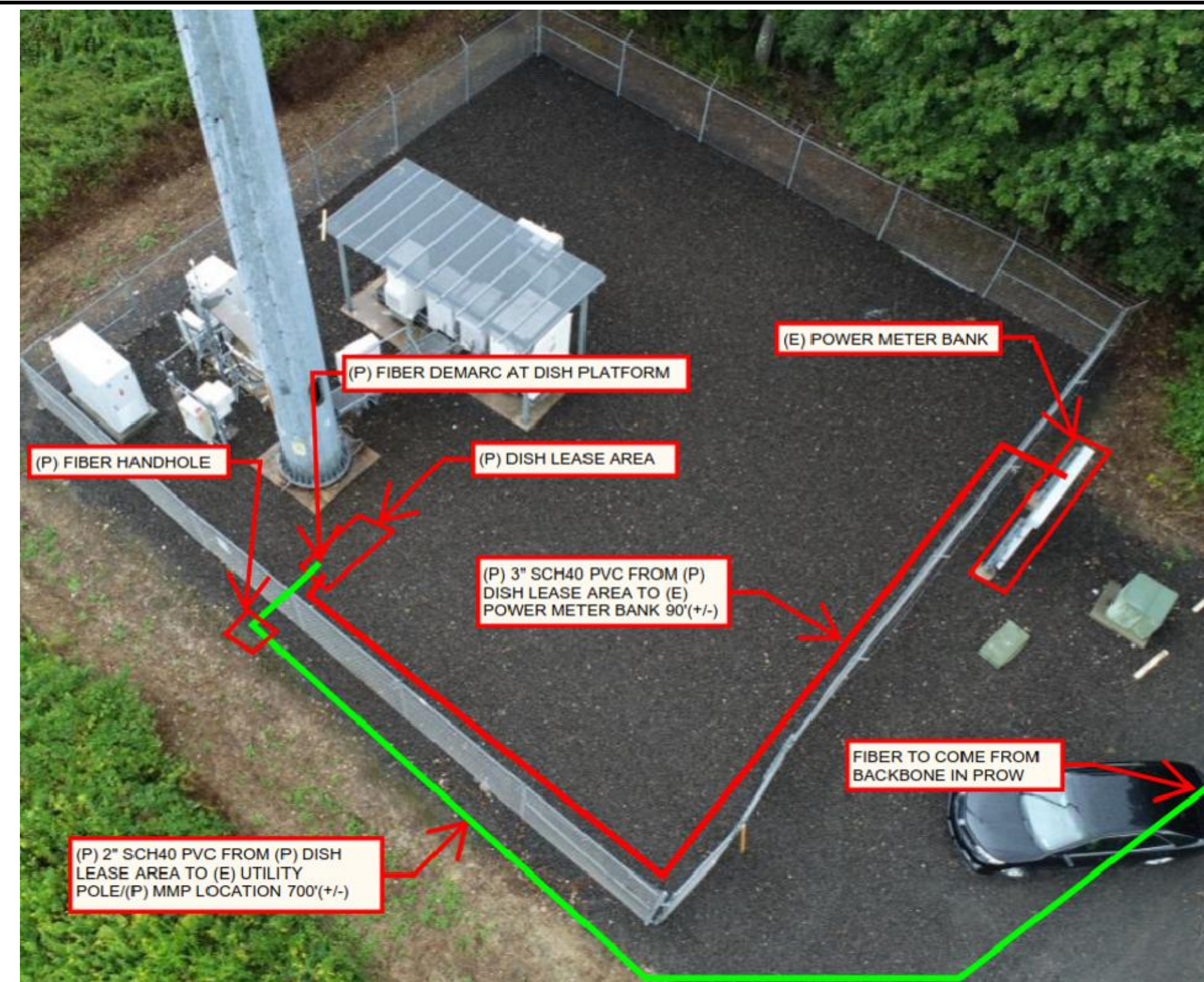
1



ENLARGED SITE PLAN



2



AERIAL VIEW

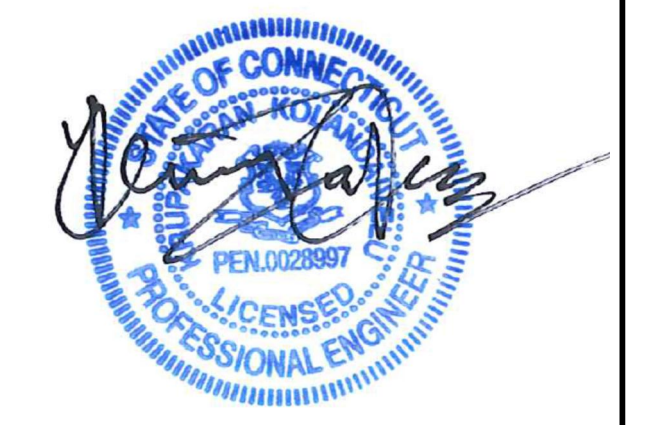
3

dish
wireless.

5701 SOUTH SANTA FE DRIVE
LITTLETON, CO 80120

NB+C
TOTALLY COMMITTED.

NB+C ENGINEERING SERVICES, L.L.C.
6095 MARSHALEE DRIVE, SUITE 300
ELKRIDGE, MD 21075
(410) 712-7092



04/06/2022
KRUPAKARAN KOLANDAIVELU, P.E.
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RFDS REV #: ---

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DISH Wireless L.L.C.
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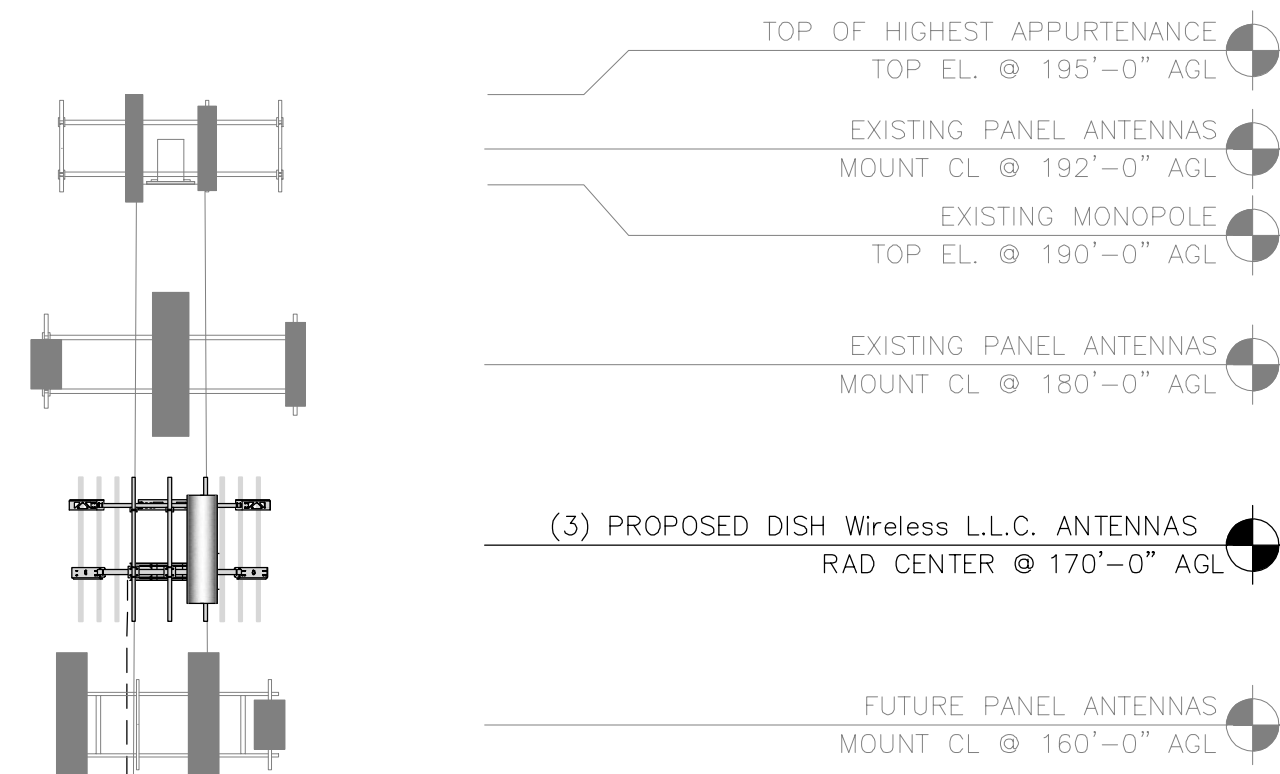
SHEET TITLE
OVERALL AND ENLARGED SITE PLAN

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.



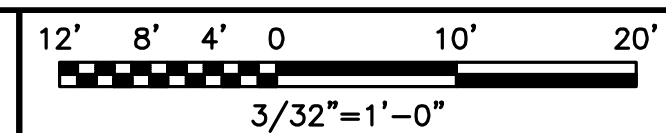
(1) PROPOSED DISH Wireless L.L.C. HYBRID CABLE ROUTED ALONG POLE

EXISTING MONOPOLE

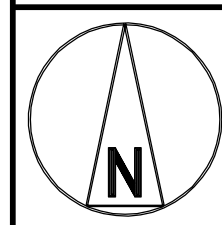
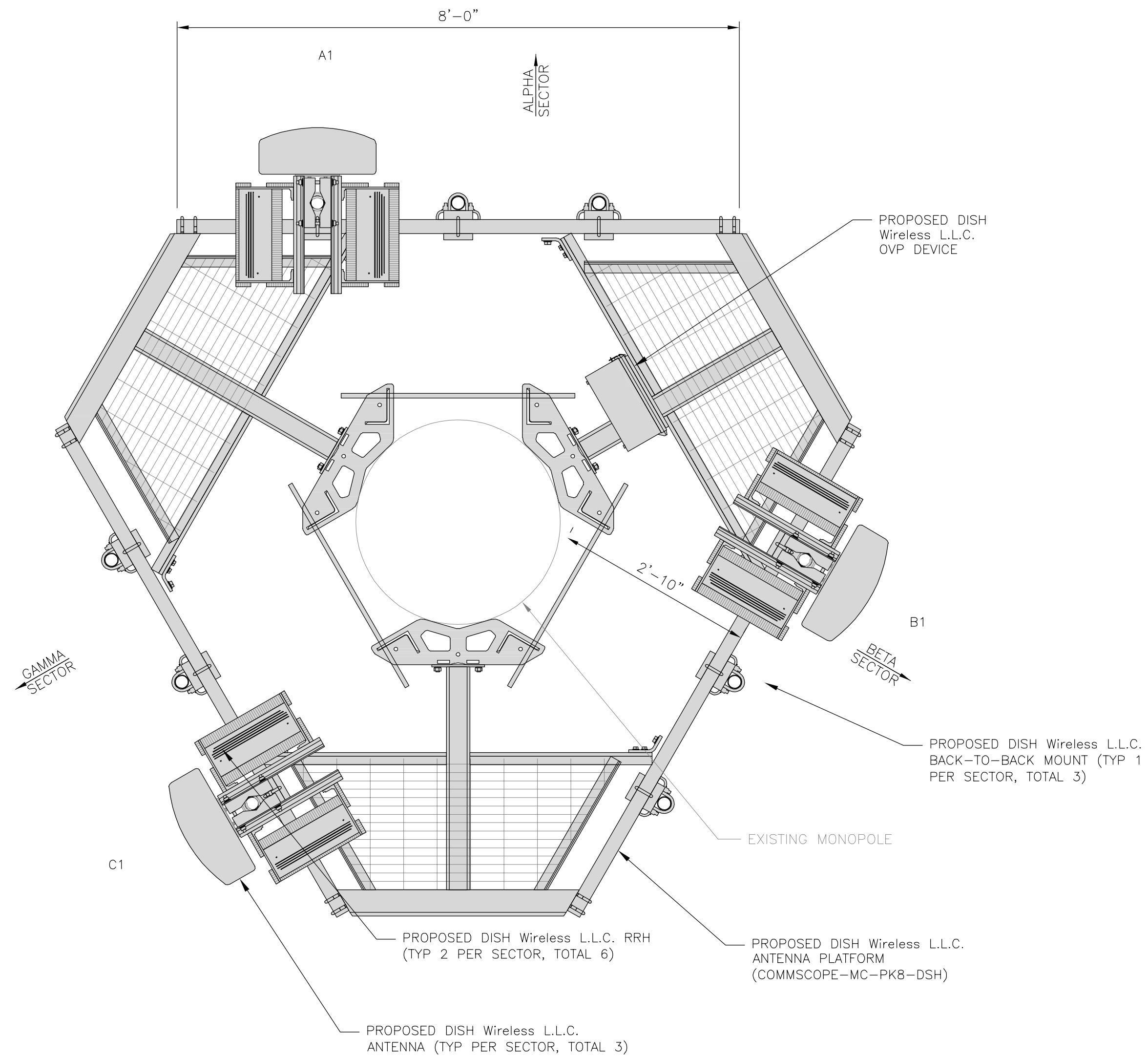
PROPOSED DISH Wireless L.L.C. ICE BRIDGE
 PROPOSED DISH Wireless L.L.C. EQUIPMENT ON PROPOSED STEEL PLATFORM
 PROPOSED DISH Wireless L.L.C. GPS UNIT

EXISTING MONOPOLE
 BOTTOM EL. @ 3" AGL

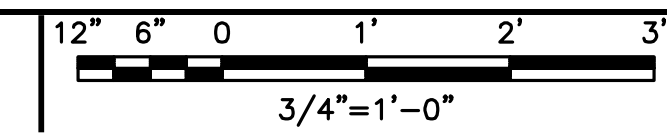
PROPOSED NORTH ELEVATION



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	
A1	PROPOSED	JMA - MX08FR0665-21	5G	0°	170'-0"	(1) HIGH-CAPACITY 1.75" DIA. HYBRID CABLE (207' LONG)	FUJITSU - TA08025-B604	5G	A1	RAYCAP - RDIDC-9181 -PF-48
A2	--	--	--	--	--		FUJITSU - TA08025-B605	5G	A1	
A3	--	--	--	--	--		--	--	--	
B1	PROPOSED	JMA - MX08FR0665-21	5G	120°	170'-0"	SHARED W/ALPHA	FUJITSU - TA08025-B604	5G	B1	SHARED W/ALPHA
B2	--	--	--	--	--		FUJITSU - TA08025-B605	5G	B1	
B3	--	--	--	--	--		--	--	--	
C1	PROPOSED	JMA - MX08FR0665-21	5G	240°	170'-0"	SHARED W/ALPHA	FUJITSU - TA08025-B604	5G	C1	SHARED W/ALPHA
C2	--	--	--	--	--		FUJITSU - TA08025-B605	5G	C1	
C3	--	--	--	--	--		--	--	--	

NOTES

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

ANTENNA SCHEDULE

NO SCALE

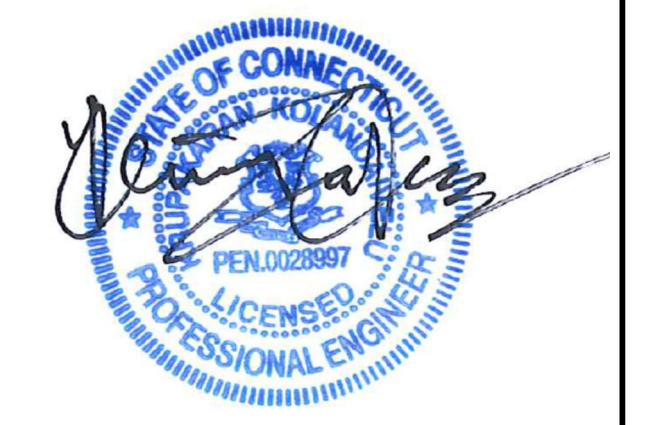
3

dish
 wireless.

5701 SOUTH SANTA FE DRIVE
 LITTLETON, CO 80120

NB+C
 TOTALLY COMMITTED.

NB+C ENGINEERING SERVICES, LLC.
 6095 MARSHALEE DRIVE, SUITE 300
 ELKRIDGE, MD 21075
 (410) 712-7092



04/06/2022
 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: BPC
 CHECKED BY: BRN
 APPROVED BY: TA

RFDS REV #: ---

CONSTRUCTION DOCUMENTS

SUBMITTALS

REV	DATE	DESCRIPTION
0	11/09/2021	ISSUED FOR CONSTRUCTION
1	04/06/2022	ISSUED FOR CONSTRUCTION

A&E PROJECT NUMBER
876378

DISH Wireless L.L.C. PROJECT INFORMATION
BOHVN00029A
 15 KLUGE ROAD
 PROSPECT, CT 06712

SHEET TITLE
ELEVATION, ANTENNA LAYOUT AND SCHEDULE

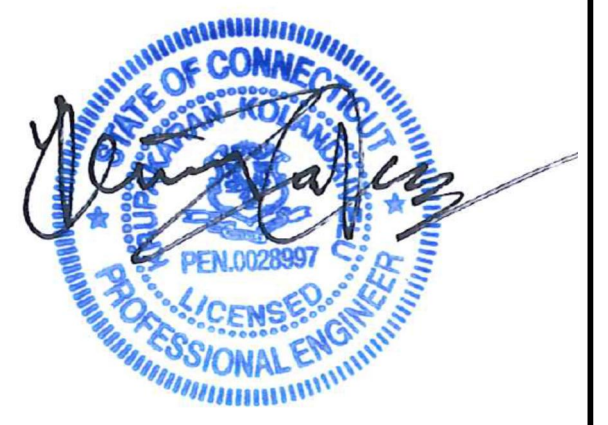
SHEET NUMBER
A-2



5701 SOUTH SANTA FE DRIVE
LITTLETON, CO 80120



NB+C ENGINEERING SERVICES, LLC.
6095 MARSHALEE DRIVE, SUITE 300
ELKRIDGE, MD 21075
(410) 712-7092



04/06/2022
KRUPAKARAN KOLANDAIVELU, P.E.
STATE OF CONNECTICUT
PROFESSIONAL ENGINEER
LICENSE #PEN.0028997

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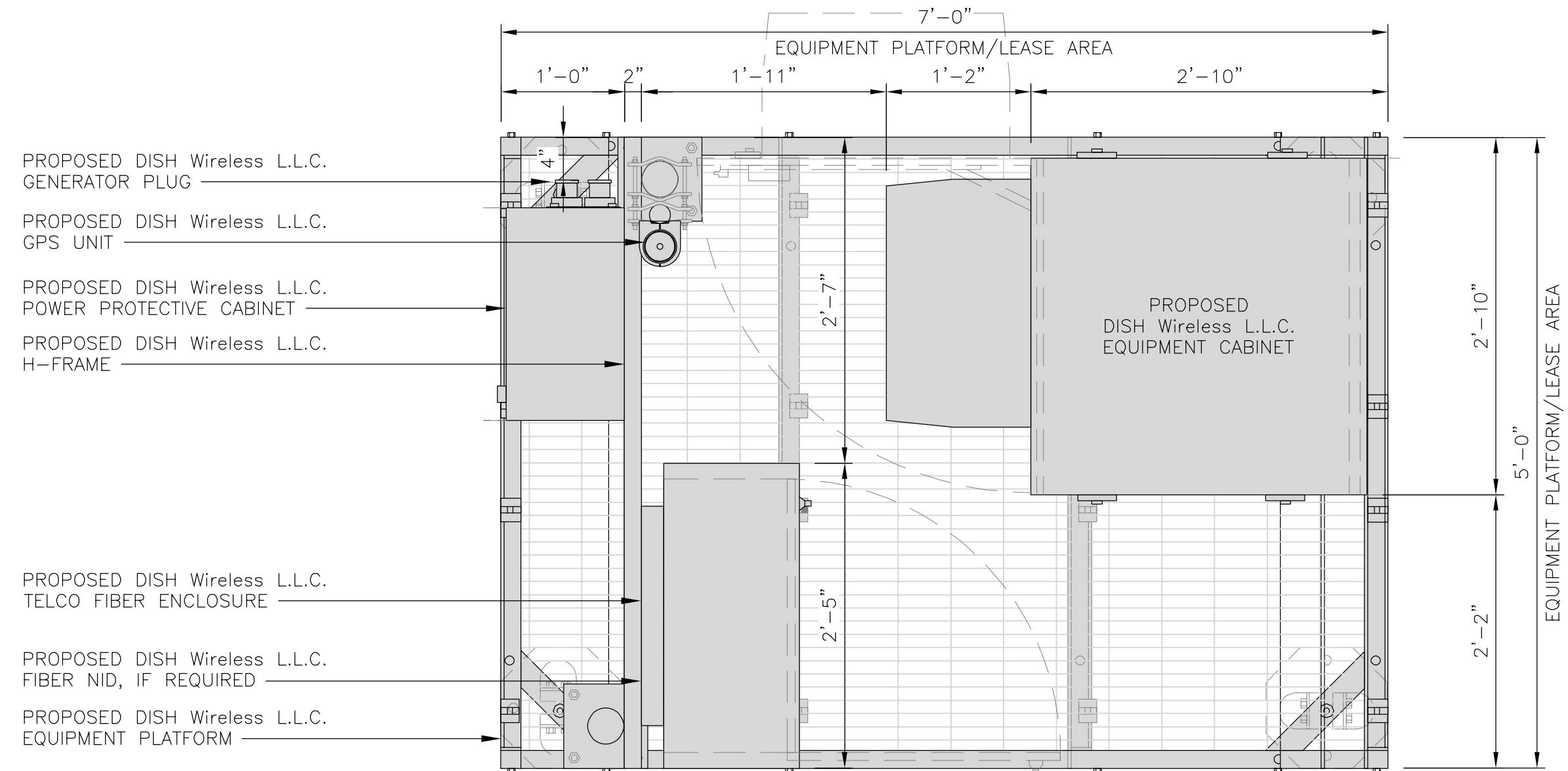
DISH Wireless L.L.C.
PROJECT INFORMATION
BOHVN00029A
15 KLUGE ROAD
PROSPECT, CT 06712

SHEET TITLE
EQUIPMENT PLATFORM AND H-FRAME DETAILS

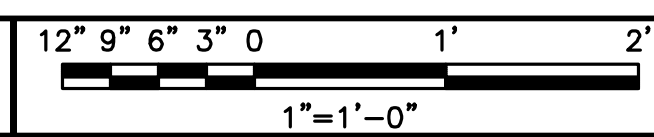
SHEET NUMBER
A-3

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 L.L.C. CONSTRUCTION MANAGER AT TIME OF CONSTRUCTION. ONE SHEET 8'x8' INSTALLED UNDER ALL FOUR FEET OF THE PLATFORM (4 MIL BLACK PLASTIC)
- EQUIPMENT CABINET OMITTED FOR CLARITY



PLATFORM EQUIPMENT PLAN

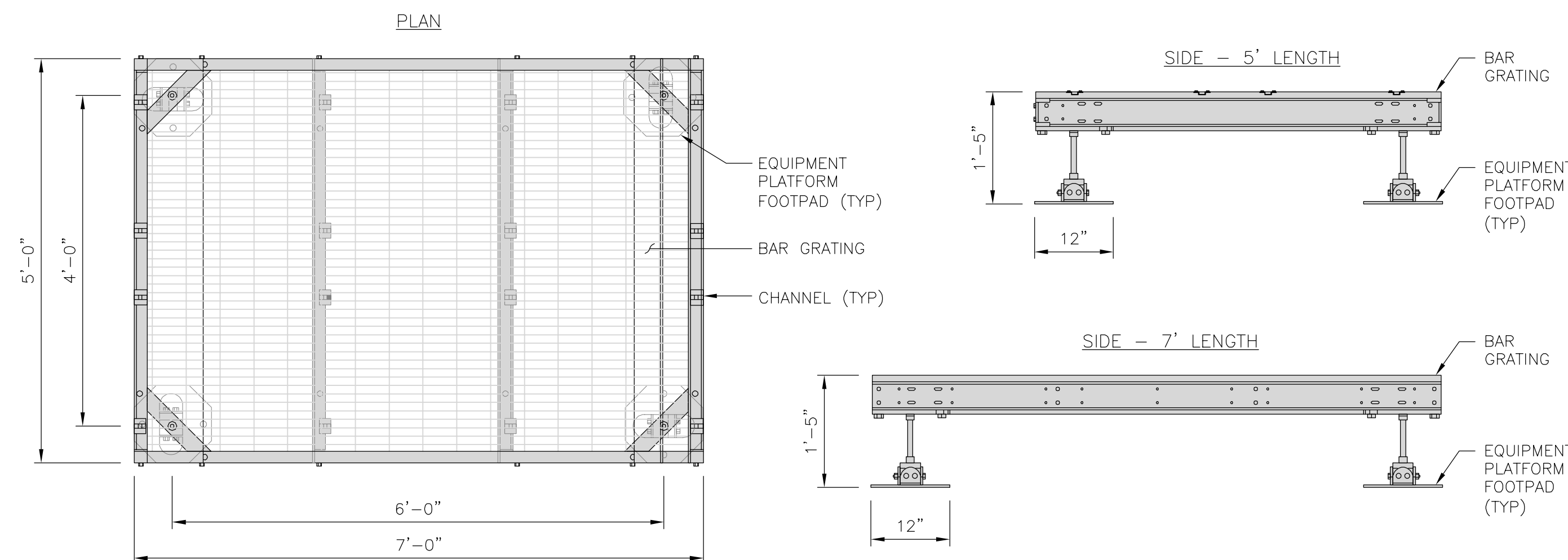


1

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

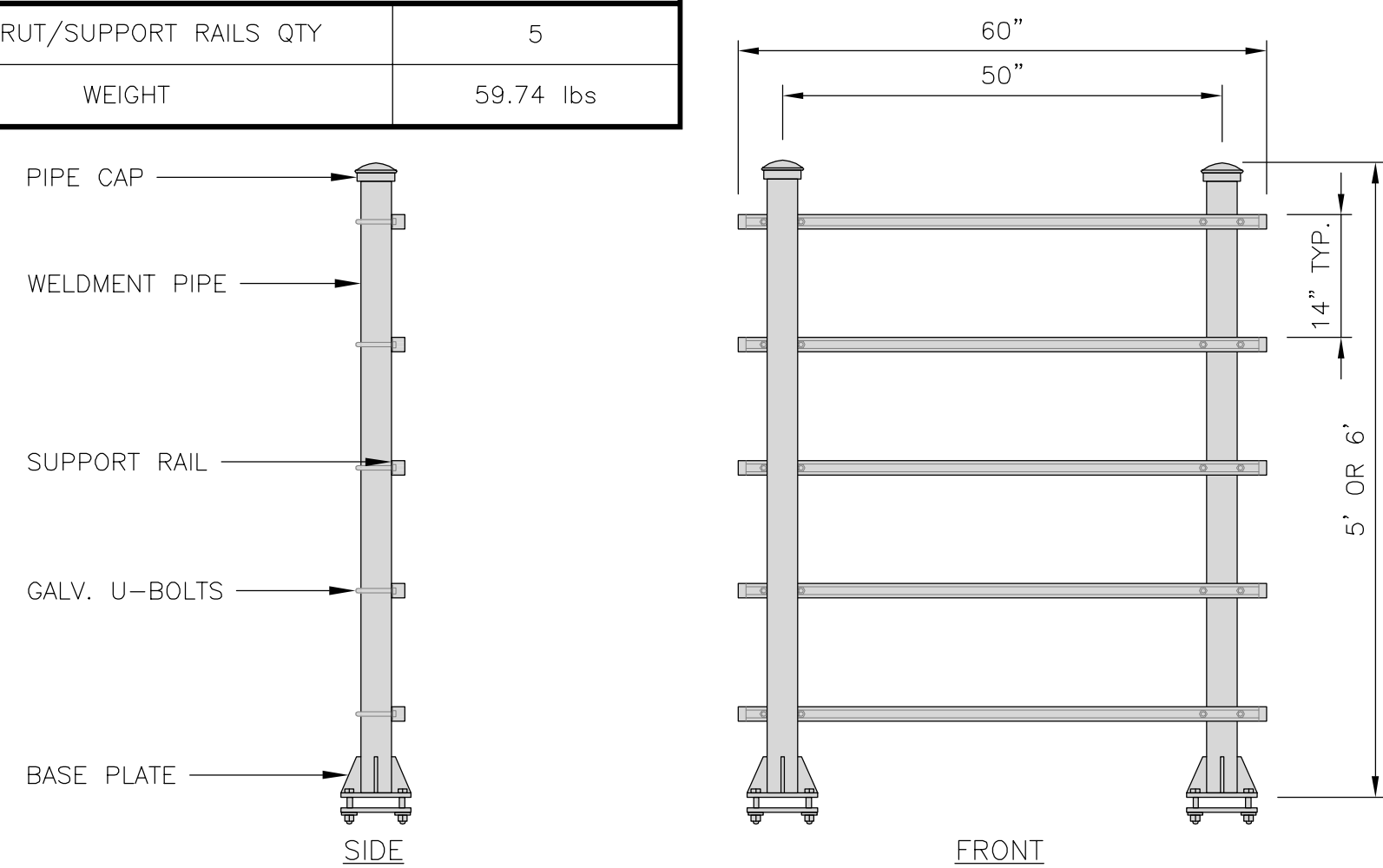
NO SCALE

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

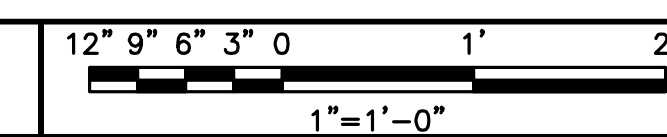
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NOT USED

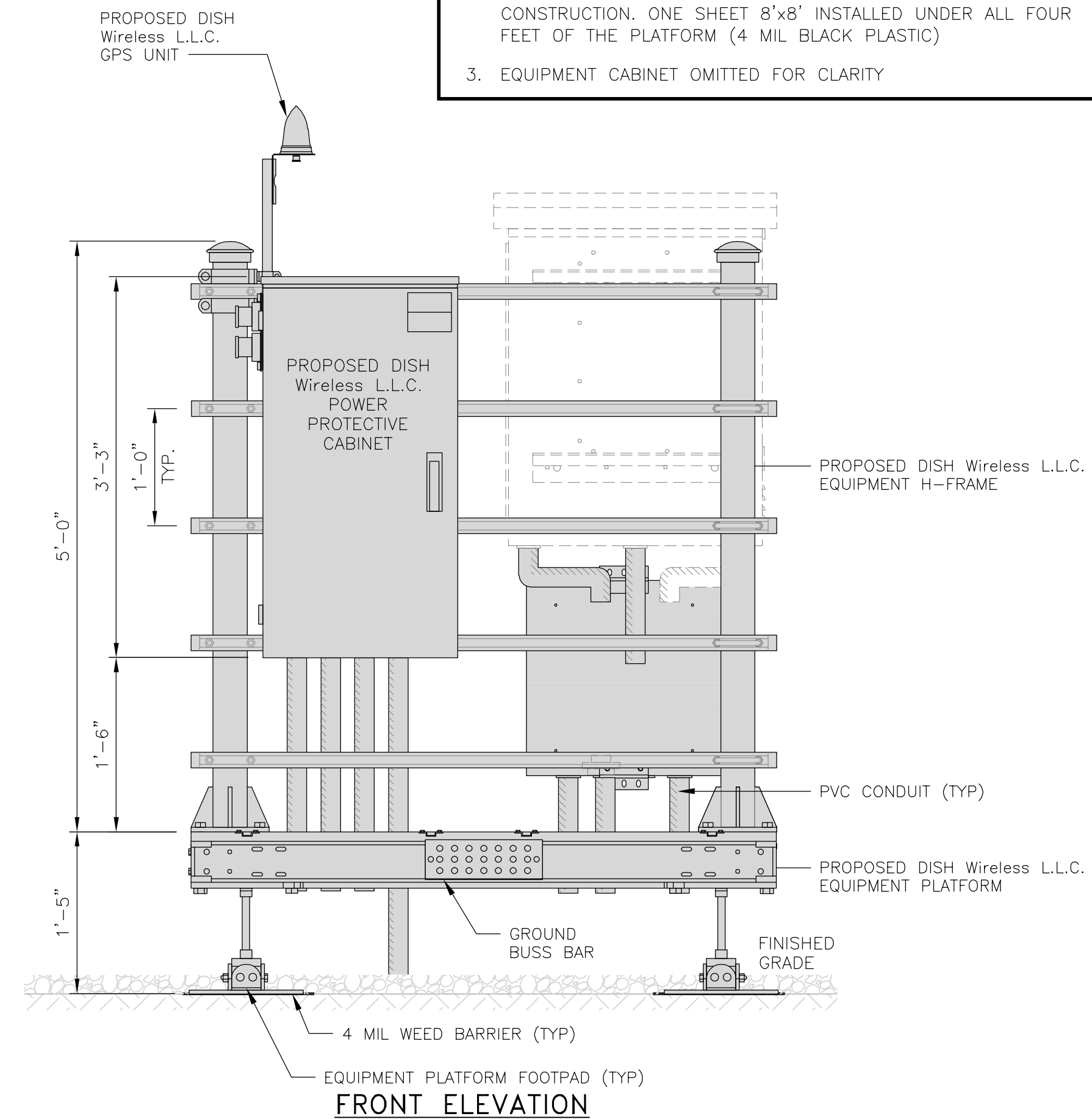
NO SCALE

4

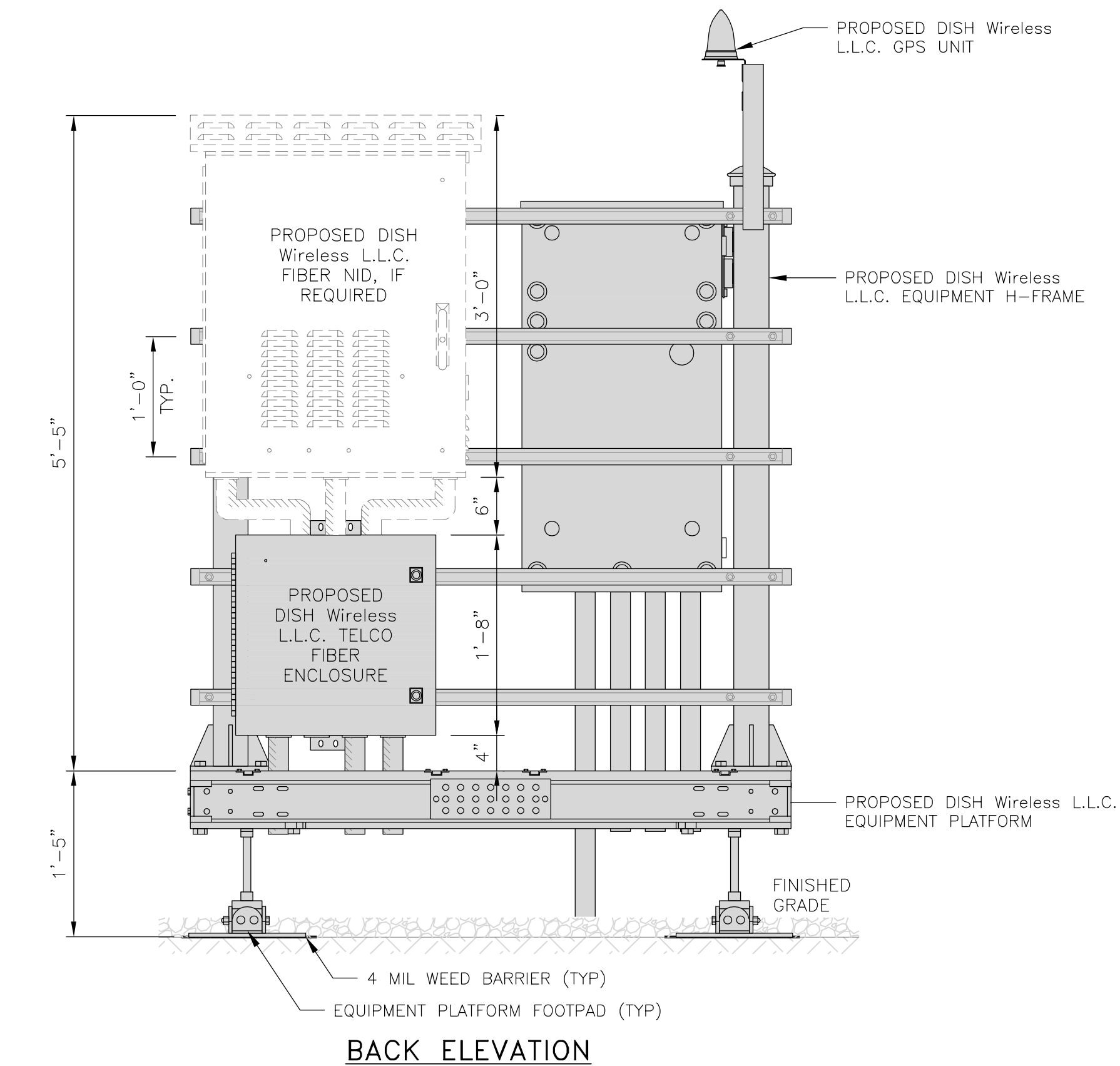
H-FRAME EQUIPMENT ELEVATION



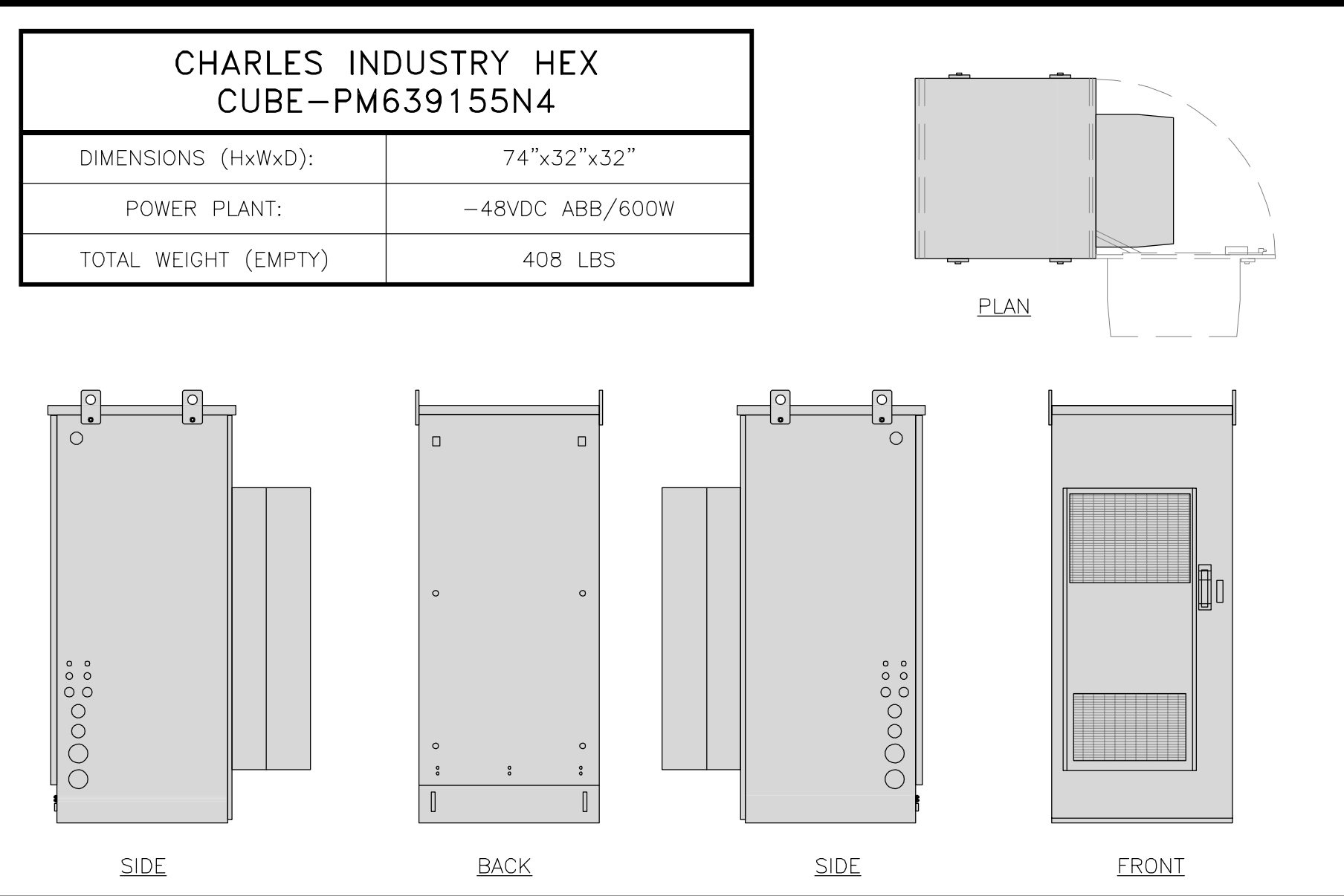
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FRONT ELEVATION



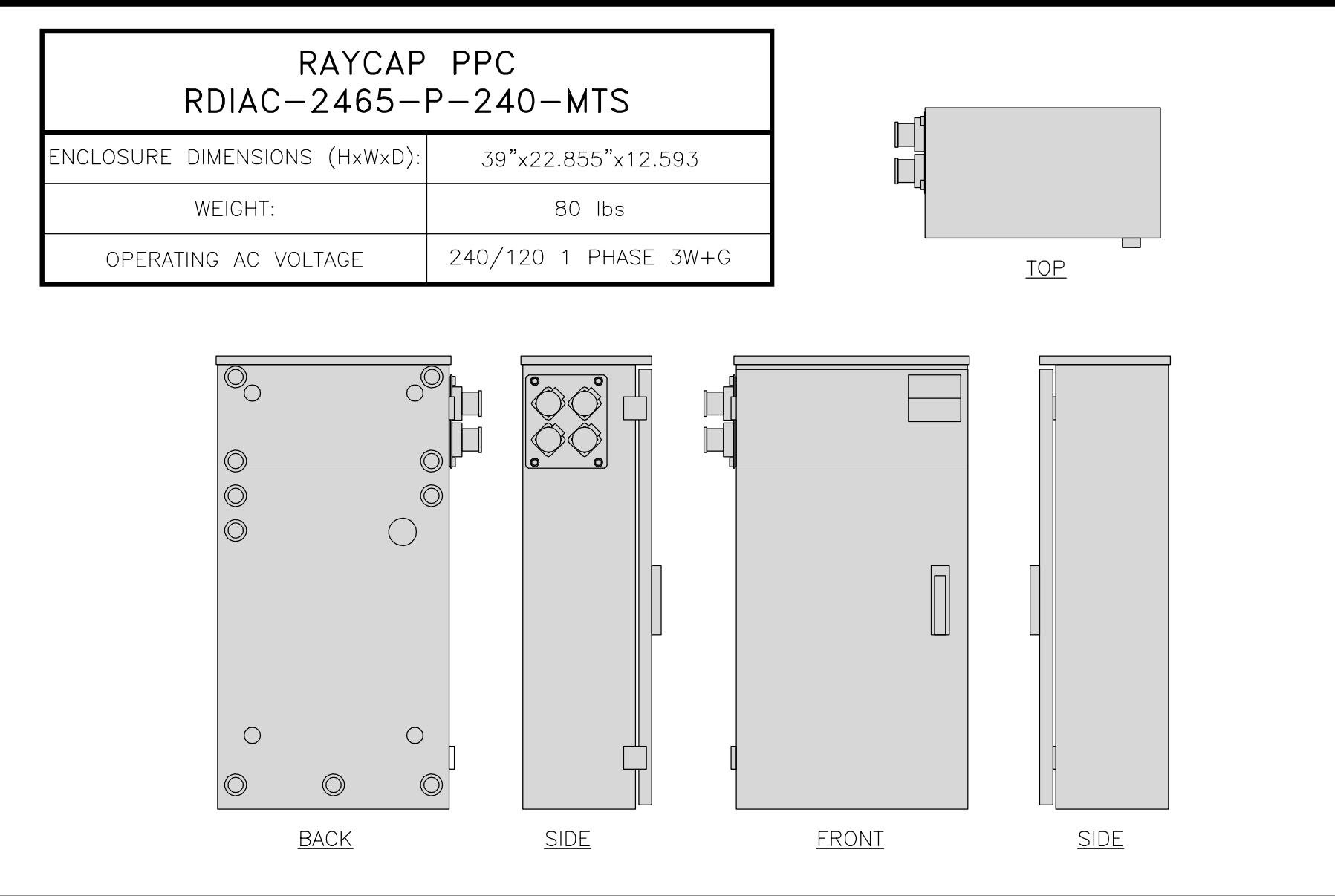
BACK ELEVATION



CABINET DETAIL

NO SCALE

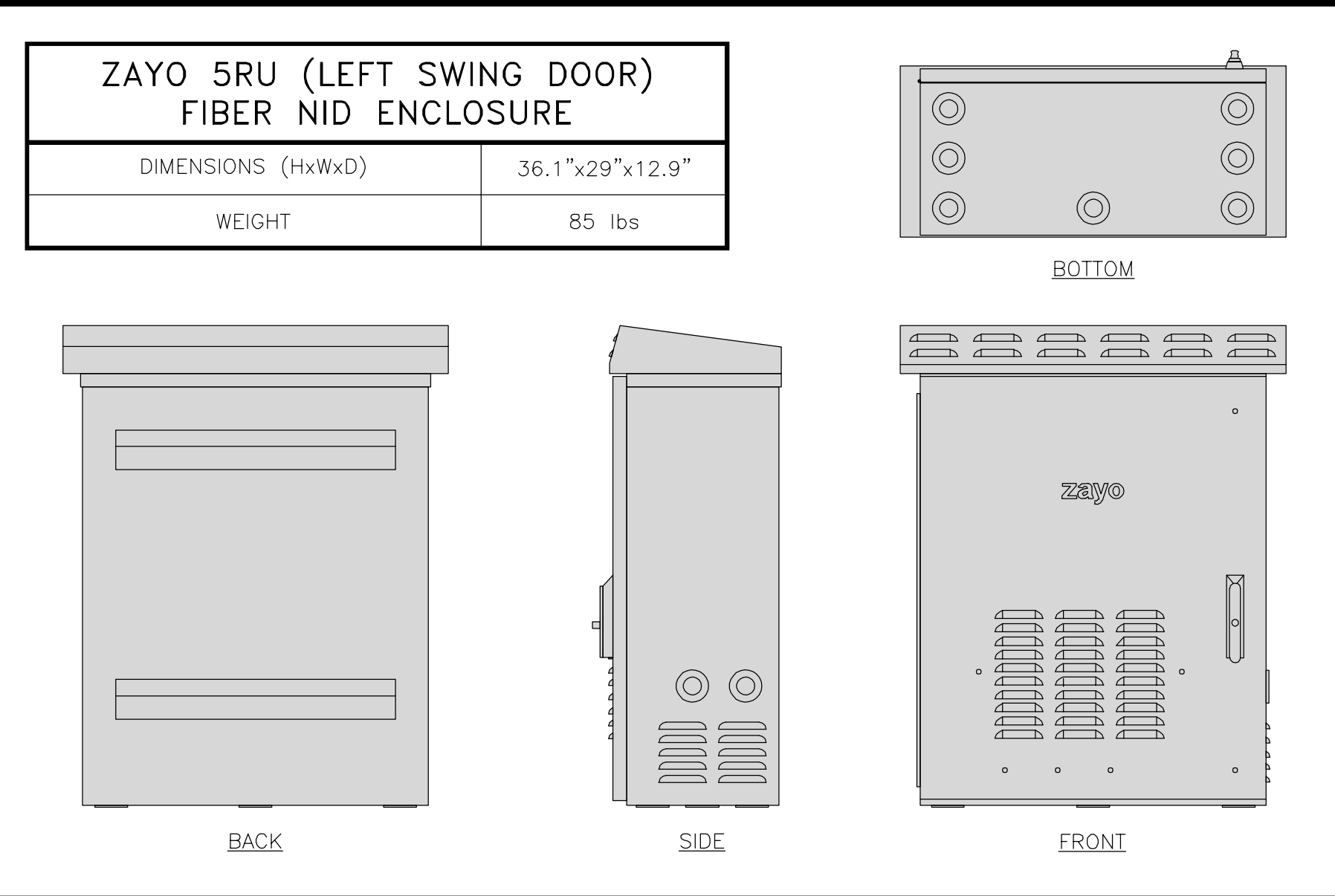
1



POWER PROTECTION CABINET (PPC) DETAIL

NO SCALE

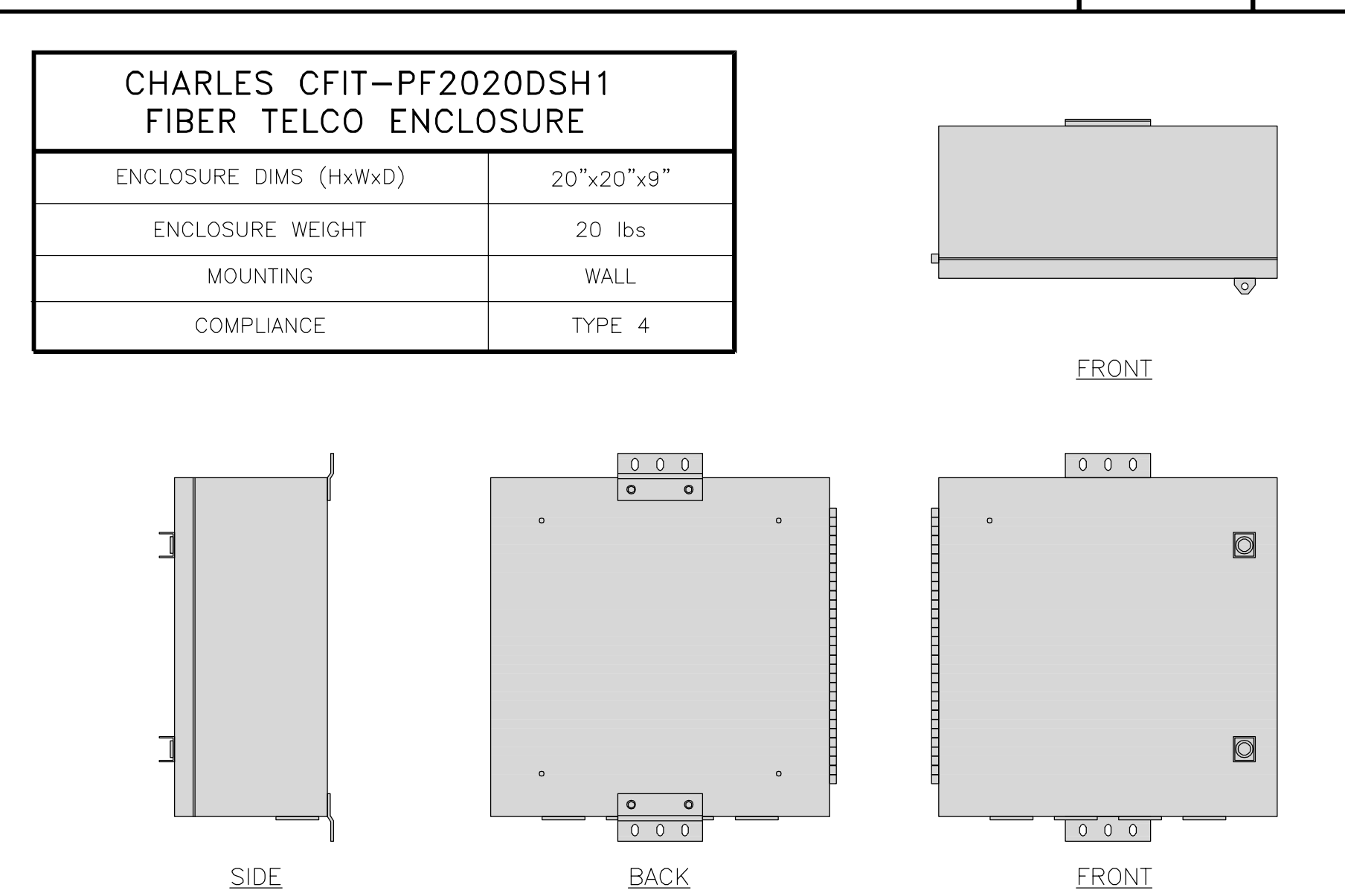
2



FIBER NID ENCLOSURE DETAIL

NO SCALE

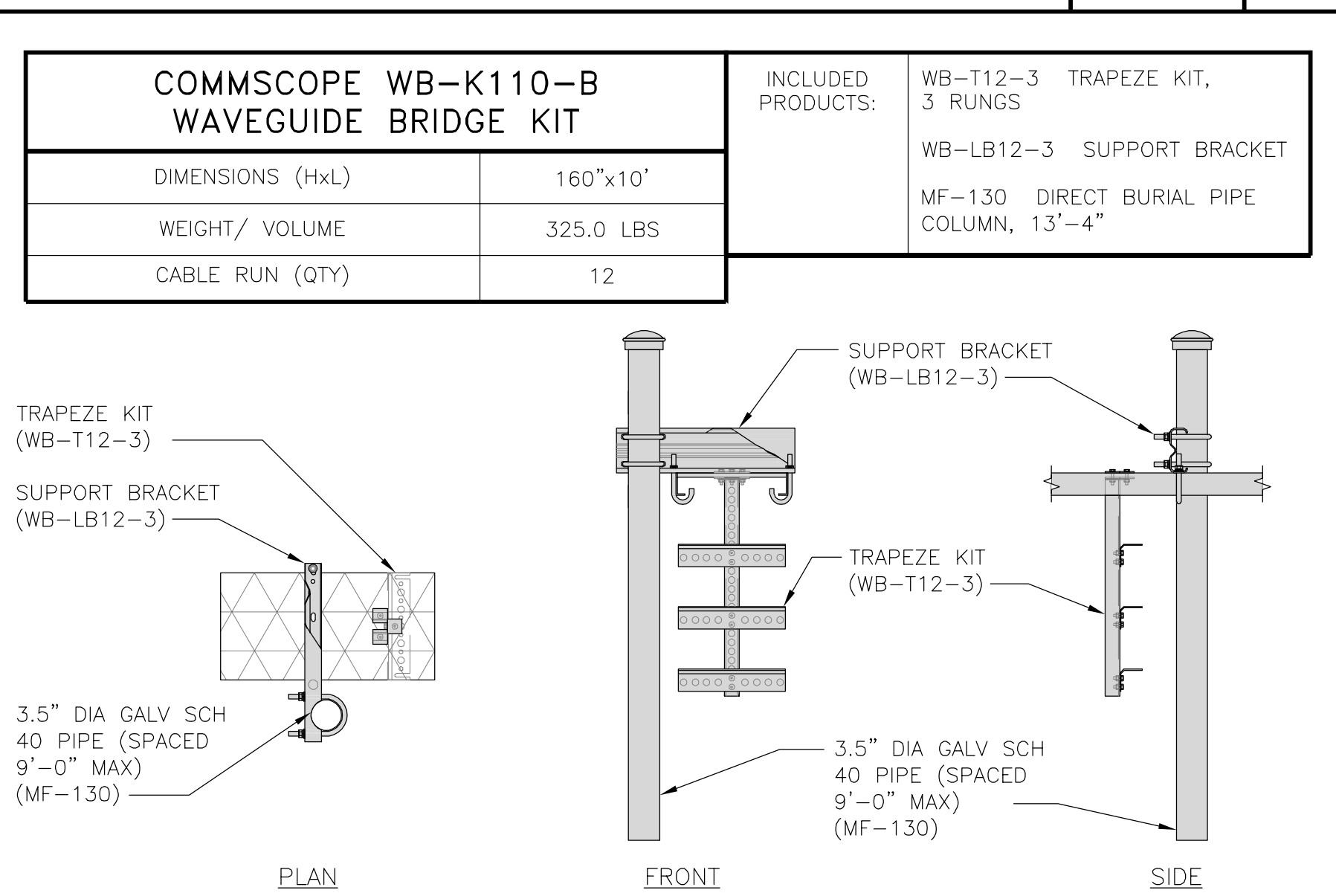
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FIBER TELCO ENCLOSURE DETAIL

NO SCALE

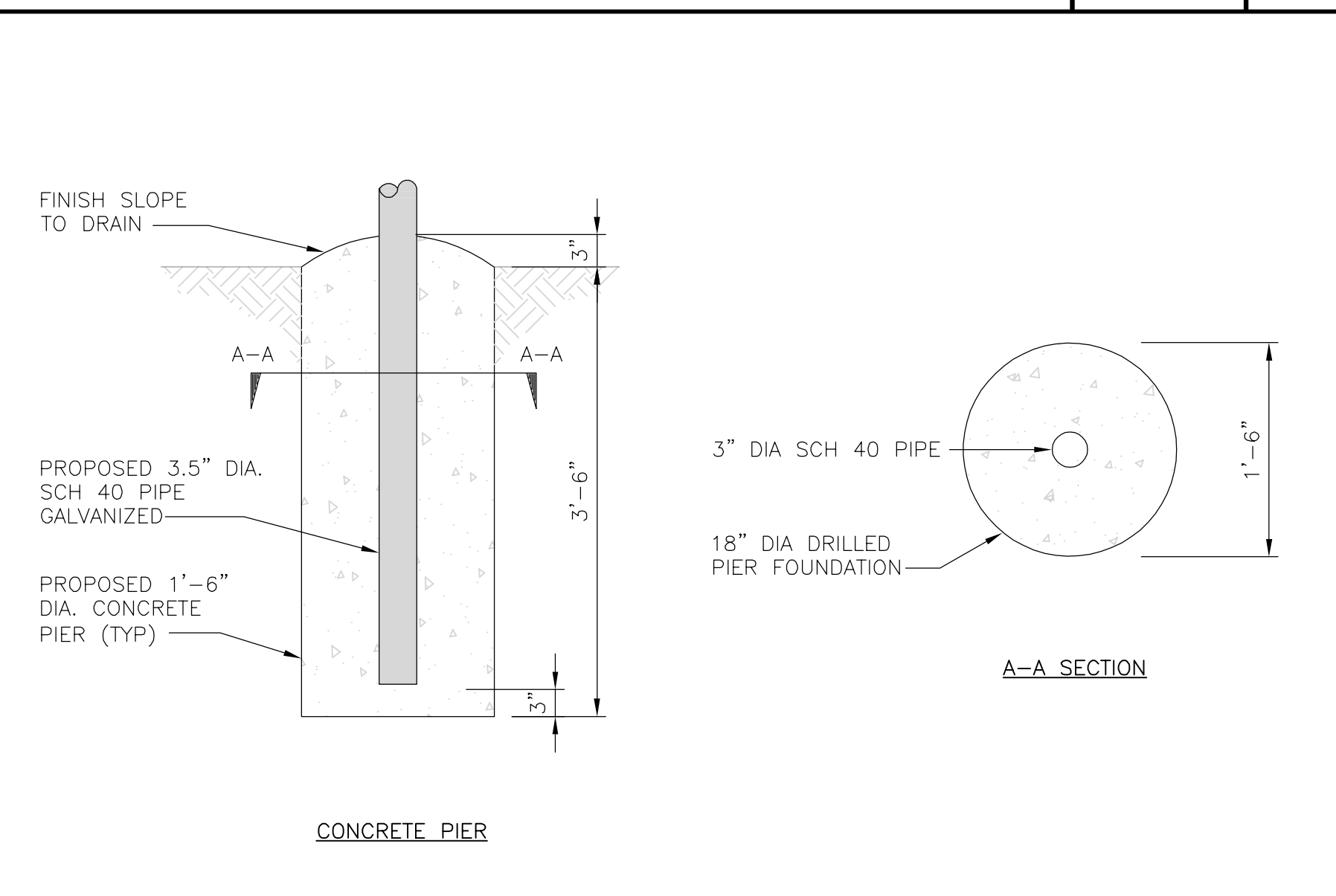
4



ICE BRIDGE DETAIL

NO SCALE

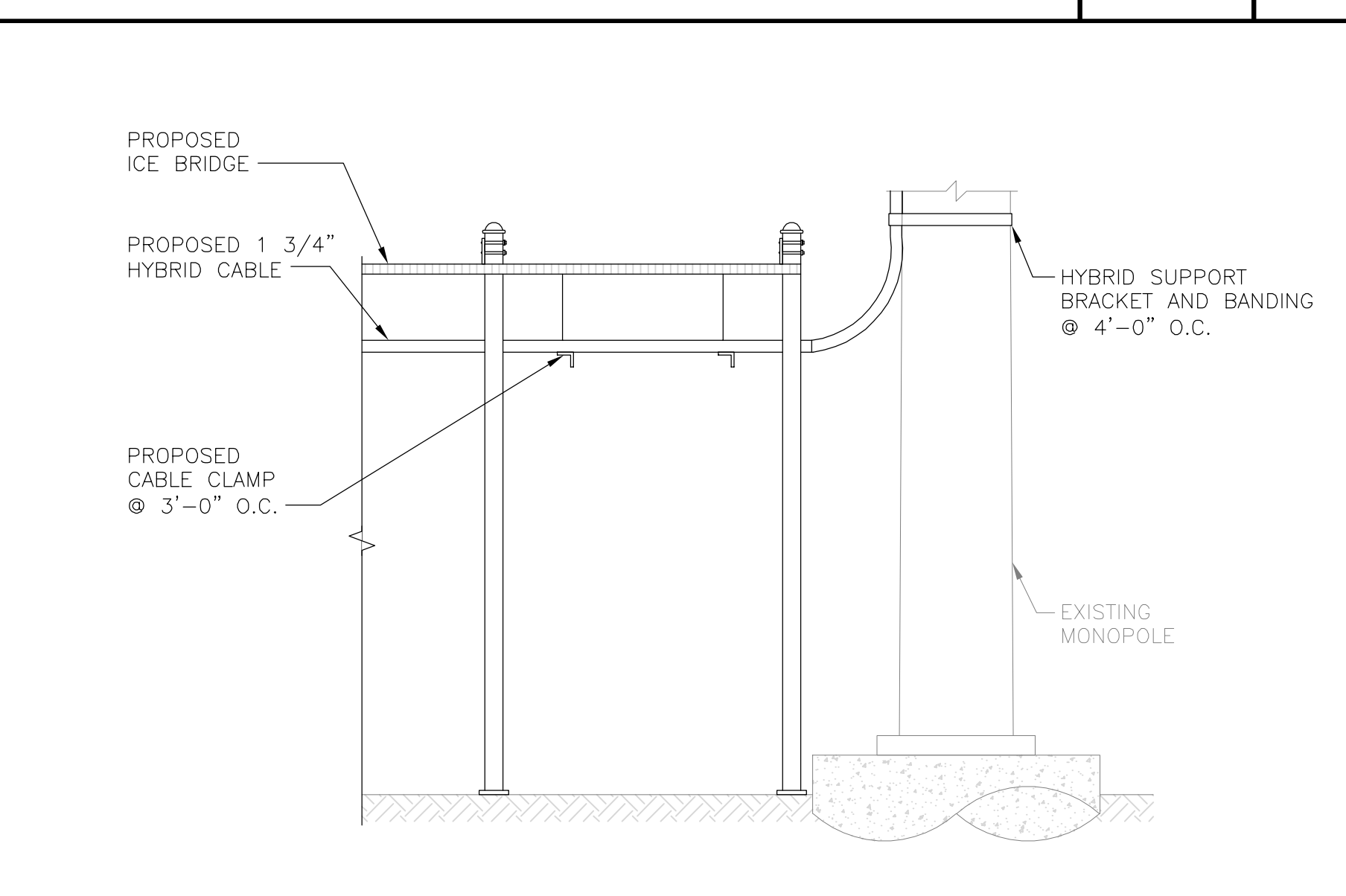
5



TYPICAL ICE BRIDGE CONCRETE PIER DETAIL

NO SCALE

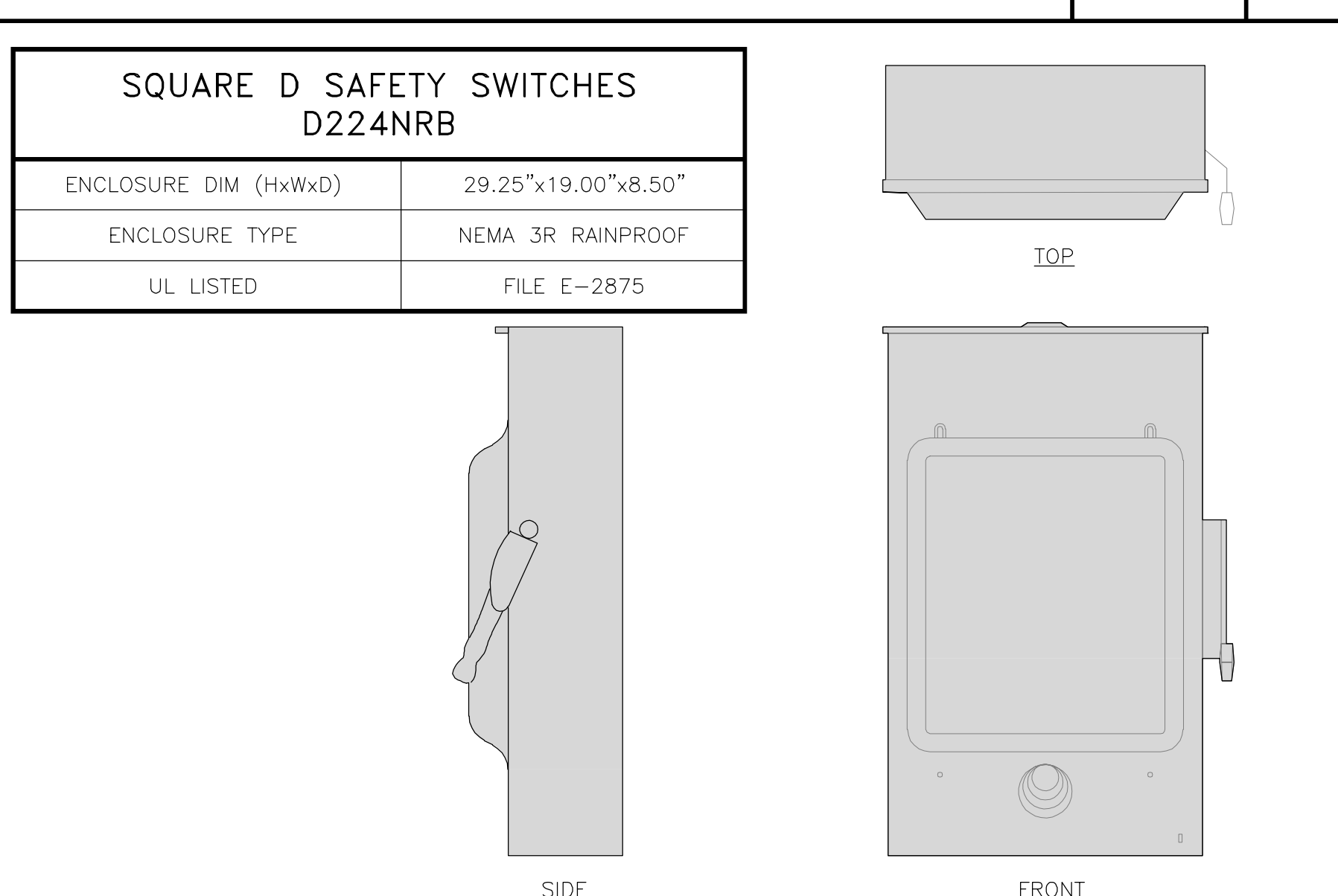
6



HYBRID CABLE RUN

NO SCALE

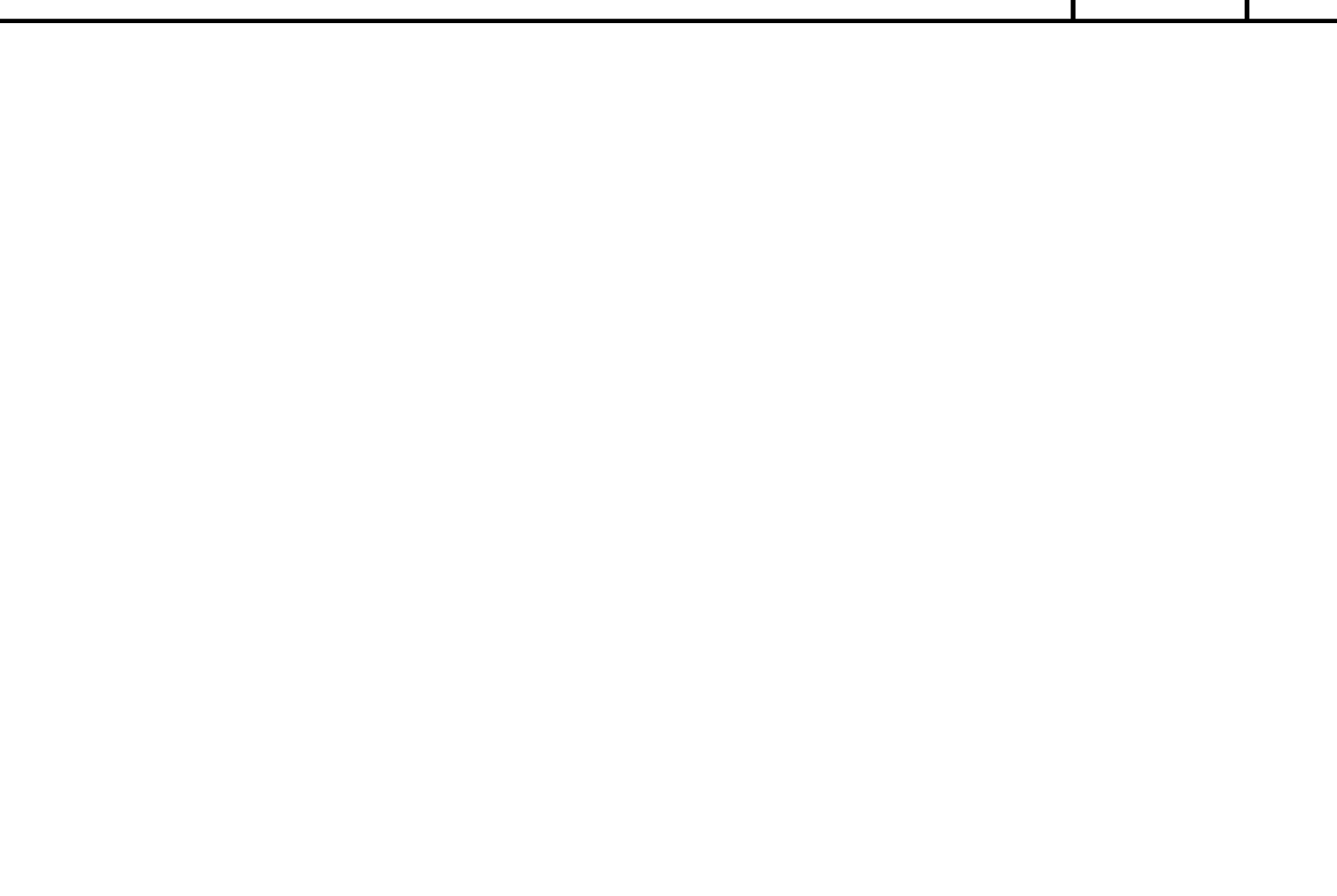
7



SAFETY SWITCH DETAIL

NO SCALE

8



NOT USED

NO SCALE

9

5701 SOUTH SANTA FE DRIVE
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TOTALLY COMMITTED.
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 ELK RIDGE, MD 21075
 (410) 712-7092

04/06/2022
 KRUPAKARAN KOLANDAIVELU, P.E.
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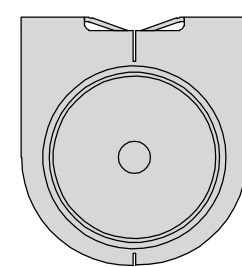
A&E PROJECT NUMBER
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DISH Wireless L.L.C.
PROJECT INFORMATION
BOHVN00029A
15 KLUGE ROAD
PROSPECT, CT 06712

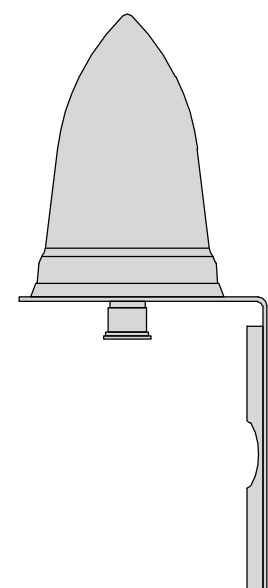
SHEET TITLE
EQUIPMENT DETAILS

SHEET NUMBER
A-4

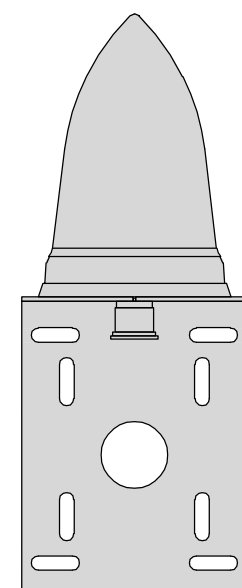
PCTEL GPSGL-TMG-SPI-40NCB	
DIMENSIONS (DIAxH) MM/INCH	81x184mm 3.2"x7.25"
WEIGHT W/ACCESSORIES	075 lbs
CONNECTOR	N-FEMALE
FREQUENCY RANGE	1590 ± 30MHz



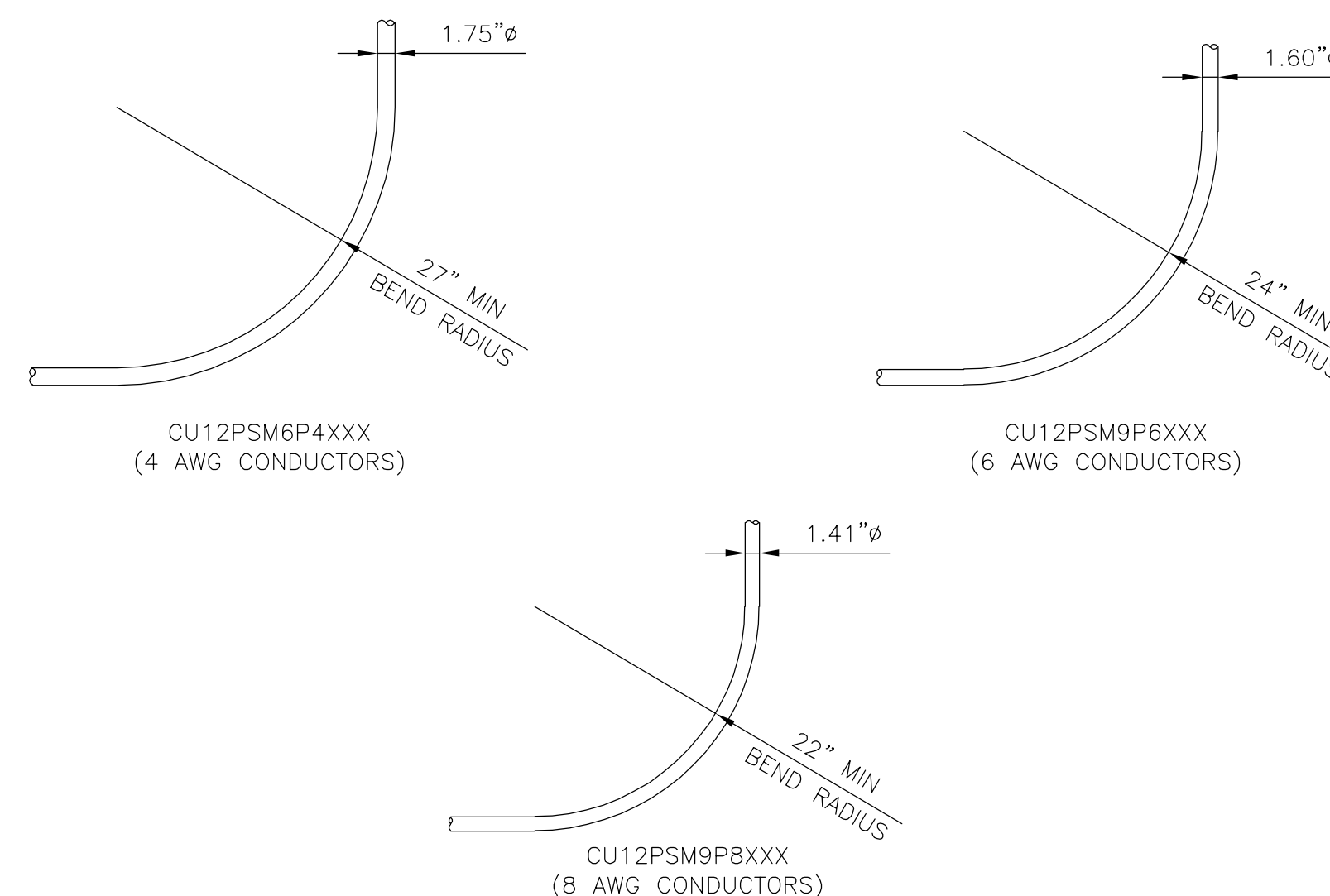
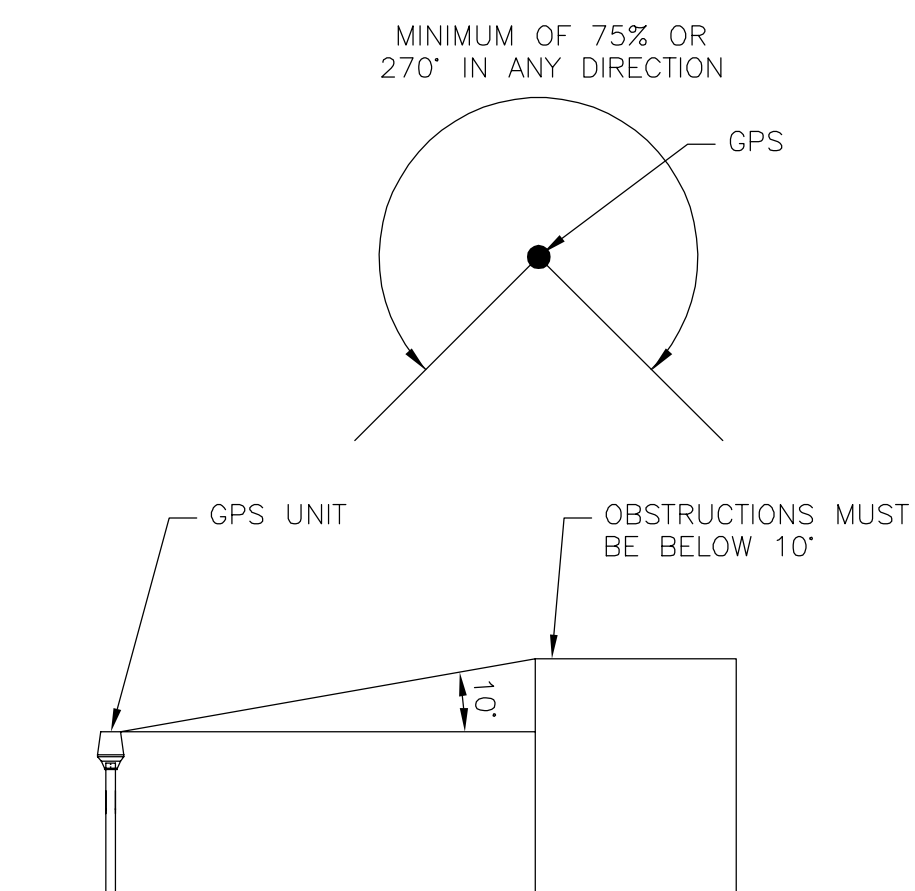
TOP



BACK



SIDE



dish
wireless.

5701 SOUTH SANTA FE DRIVE
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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 #:	BOHVN00029A	
TWR TYPE:	MONOPOLE	
HYBRID BEND RADIUS	30"	The preparer must determine the lengths below.
RAD CENTER (ft)	170.0	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)	5.5	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)	3.0	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)	207	

HYBRID CABLE CALCULATOR

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



04/06/2022

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STATE OF CONNECTICUT
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RFDS REV #: ---

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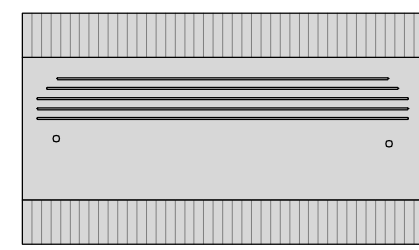
BOHVN00029A
15 KLUGE ROAD
PROSPECT, CT 06712

SHEET TITLE
EQUIPMENT DETAILS

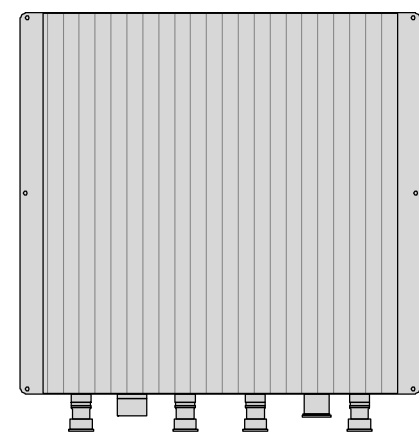
SHEET NUMBER

A-5

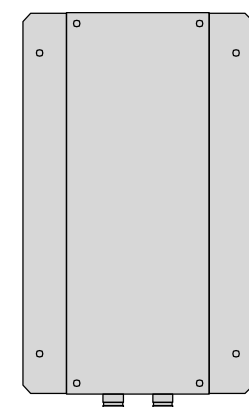
FUJITSU TRIPLE BAND TA08025-B605	
DIMENSIONS (HxWxD)	14.9"x15.7"x9"
WEIGHT	74.95 lbs
CONNECTOR TYPE	4.3-10 RF CONNECTOR
POWER SUPPLY	DC -58~-36V



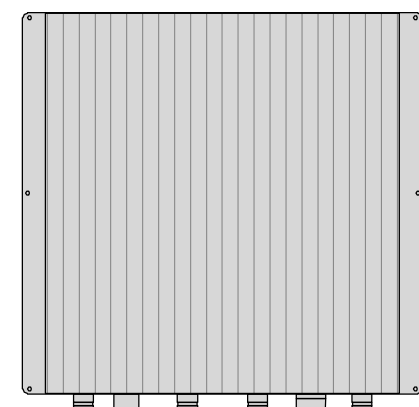
PLAN



BACK



SIDE



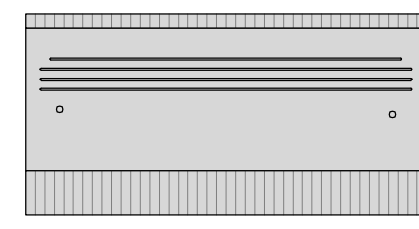
FRONT

RRH DETAIL

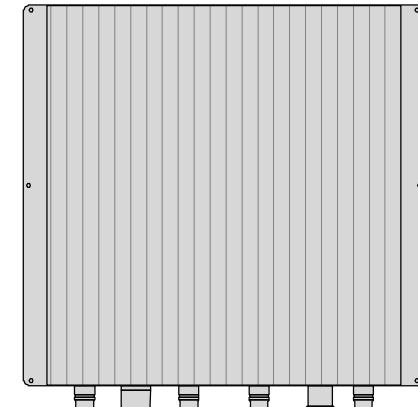
NO SCALE

1

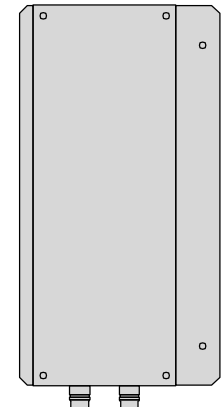
FUJITSU DUAL BAND TA08025-B604	
DIMENSIONS (HxWxD)	14.9"x15.7"x7.8"
WEIGHT	63.9 lbs
CONNECTOR TYPE	4.3-10 RF CONNECTOR
POWER SUPPLY	DC -58~-36V



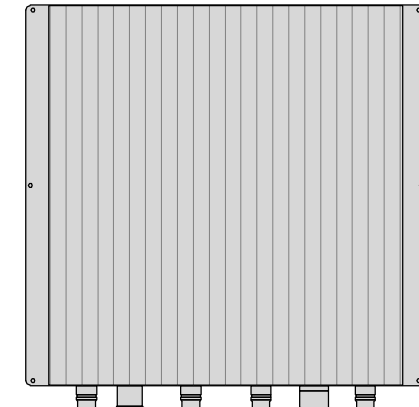
PLAN



BACK



SIDE



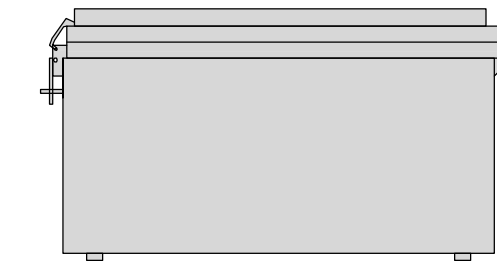
FRONT

RRH DETAIL

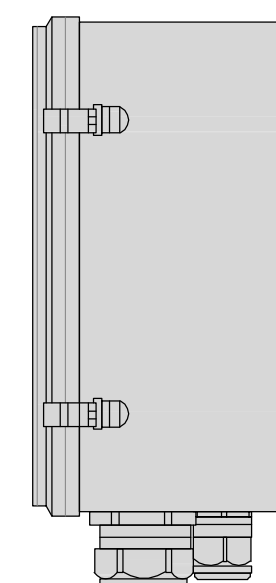
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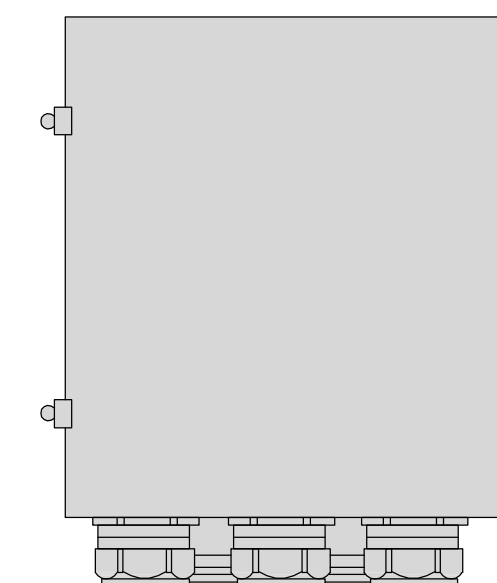
RAYCAP RDIDC-9181-PF-48 DC SURGE PROTECTION (OVP)	
DIMENSIONS (HxWxD)	18.98"x14.39"x8.15"
WEIGHT	21.82 LBS



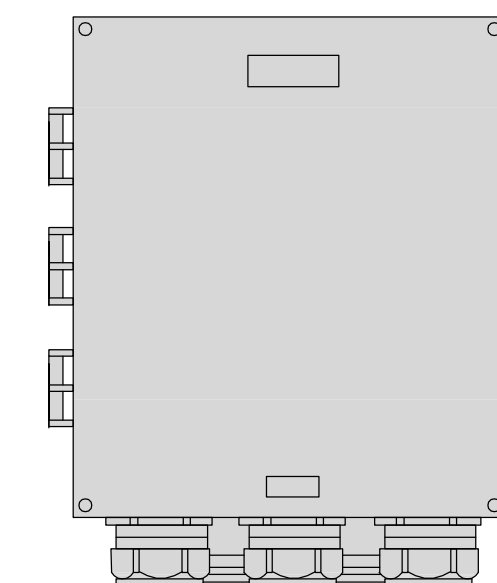
PLAN



SIDE



BACK



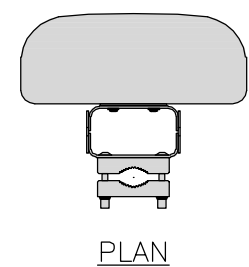
FRONT

SURGE SUPPRESSION DETAIL (OVP)

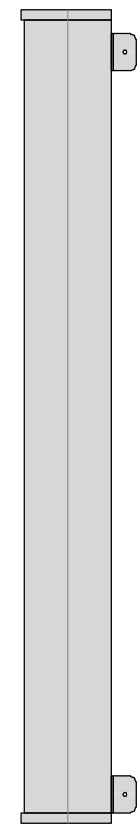
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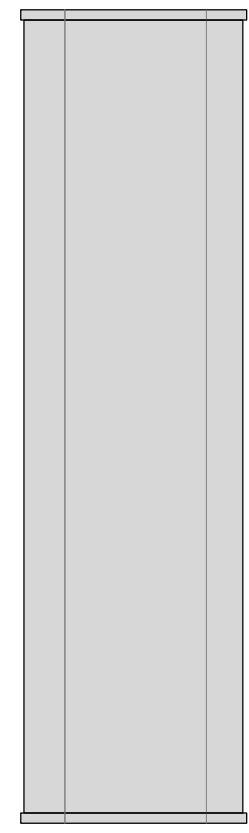
JMA MX08FRO665-21	
DIMENSIONS (HxWxD)	72"x20.0"x8.0"
RF PORTS, CONNECTOR TYPE	8 x 4.3-10 FEMALE
WEIGHT	64.5 lbs
WEIGHT WITH BRACKETS	82.5 lbs



PLAN



SIDE



FRONT

ANTENNA DETAIL

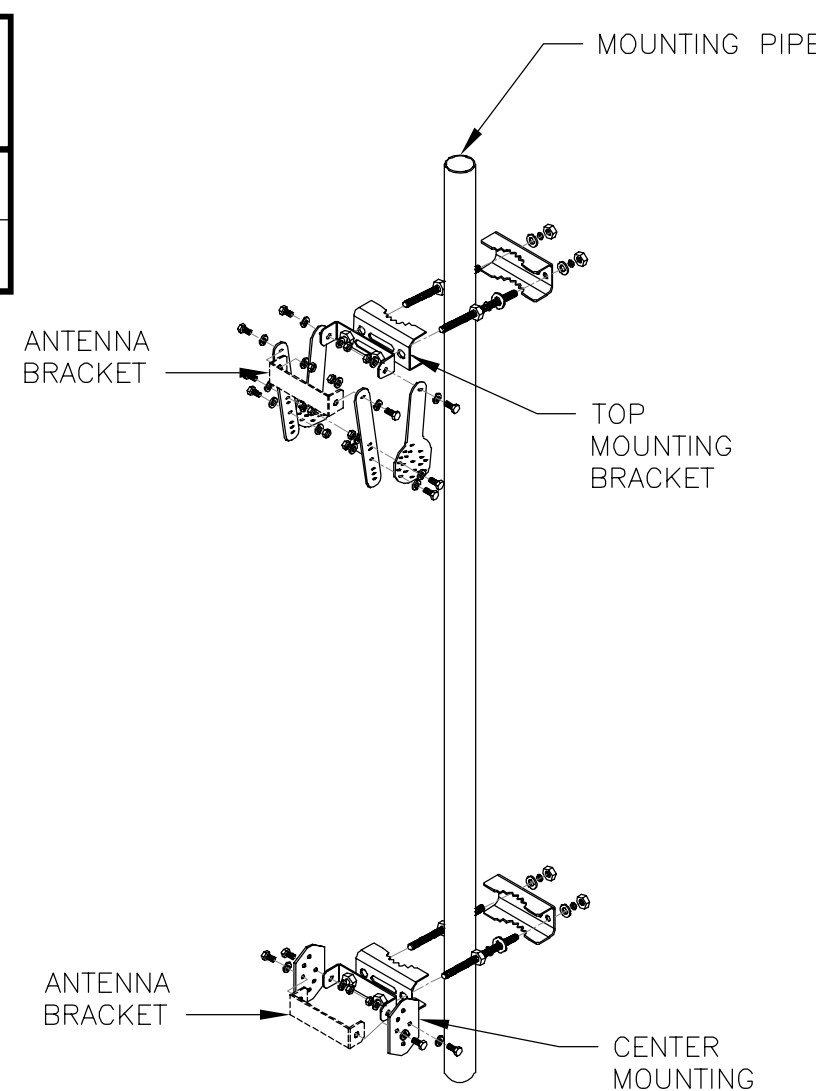
NO SCALE

4

JMA ANTENNA MOUNT BRACKET #91900318	
TOTAL WEIGHT (WITH BRACKETS)	18 lbs (8.18 Kg)
POLE DIAMETER RANGE	2.5" TO 4.5"

NOTE:
KIT #91900318: TOP AND BOTTOM BRACKETS
FOR 4-,6-, AND 8-FOOT ANTENNAS
ANTENNA BRACKET NOT PART OF KIT

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



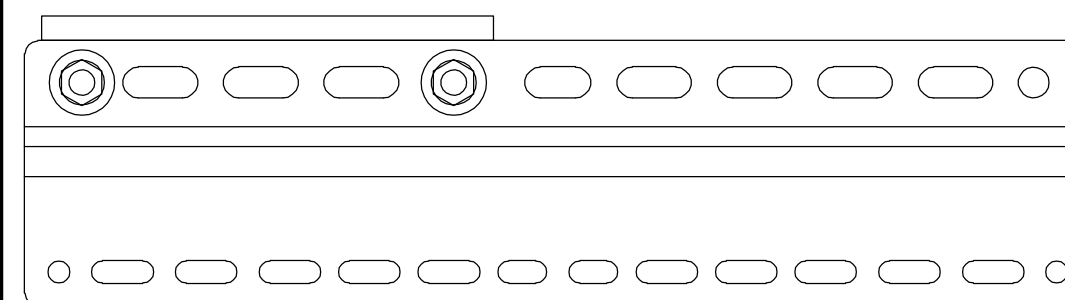
ANTENNA BRACKET DETAIL

NO SCALE

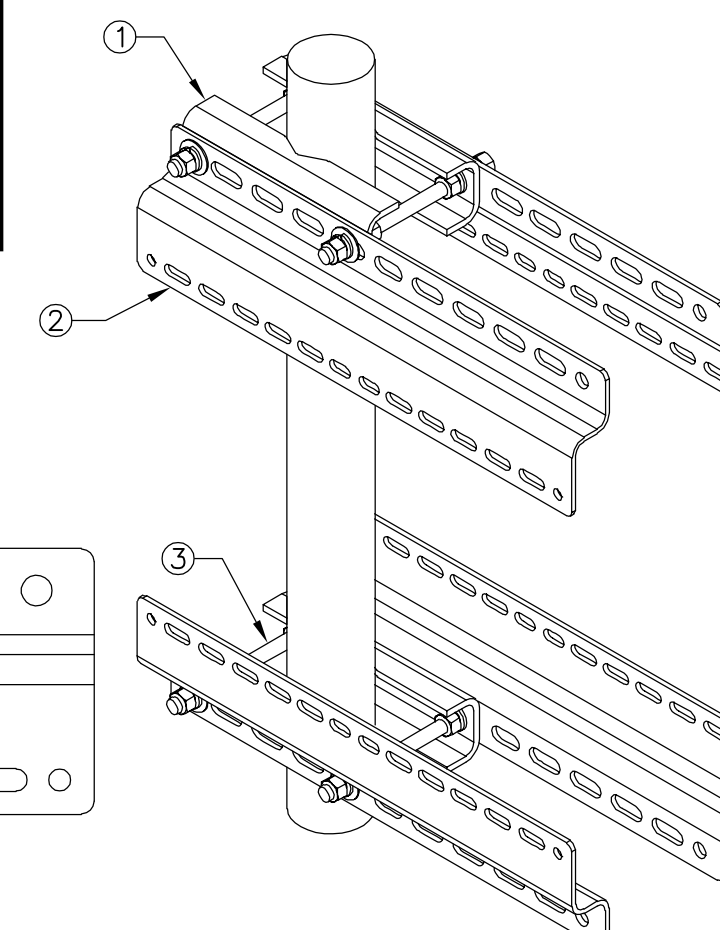
5

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



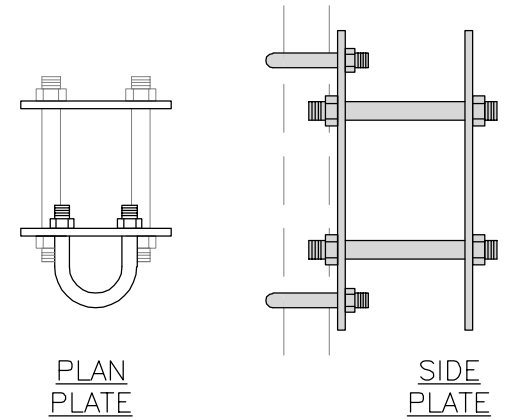
RRH MOUNT DETAIL

NO SCALE

6

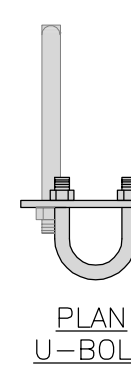
COMMSCOPE XP-2040 CROSSOVER PLATE	
DIMENSIONS (HxW)	10"x12"
WEIGHT	11 lbs

NOTE:
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APPROVED EQUIVALENT



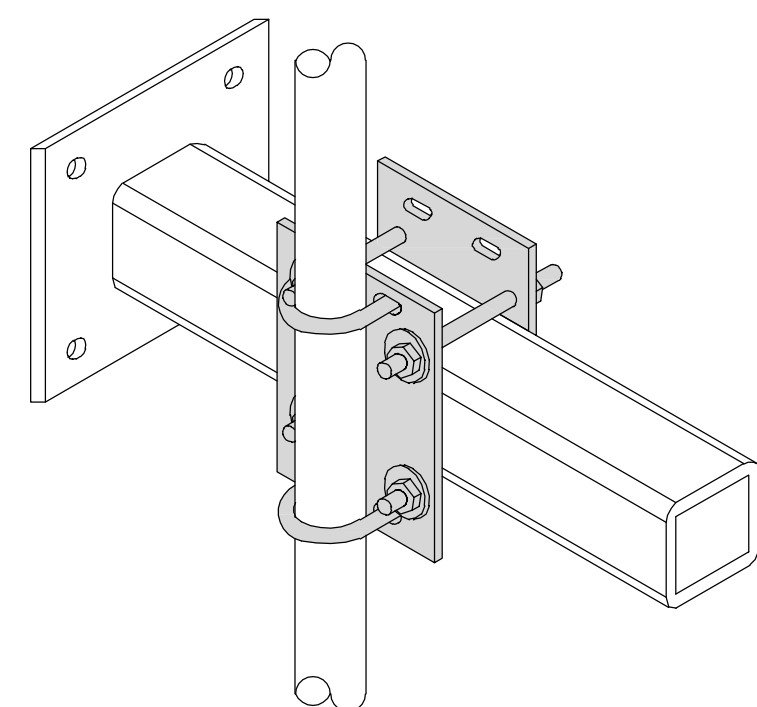
PLAN
PLATE

SIDE
PLATE



PLAN
U-BOLT

SIDE
U-BOLT



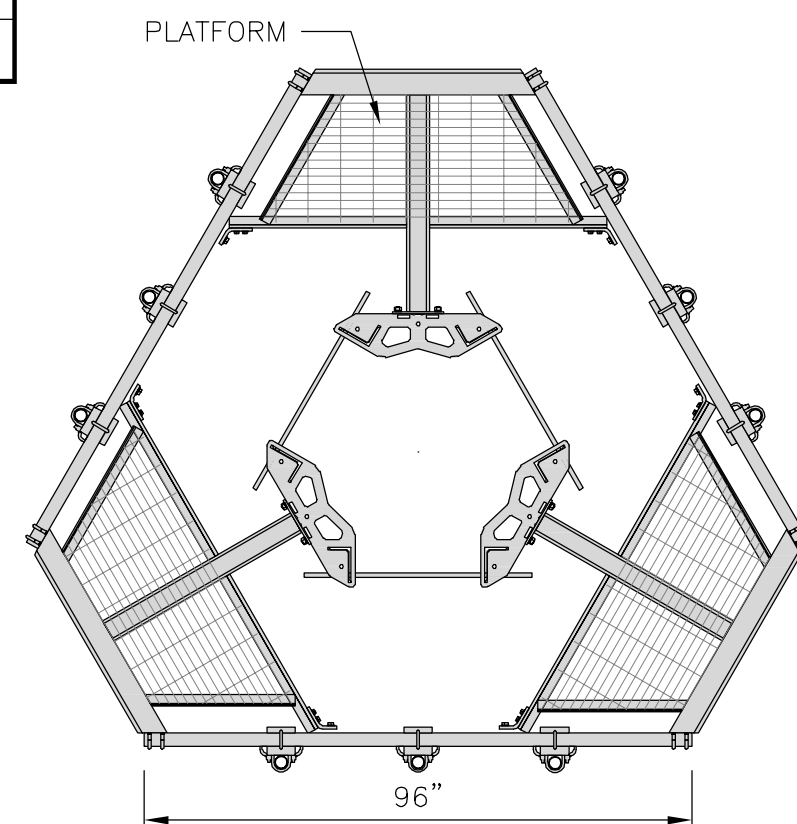
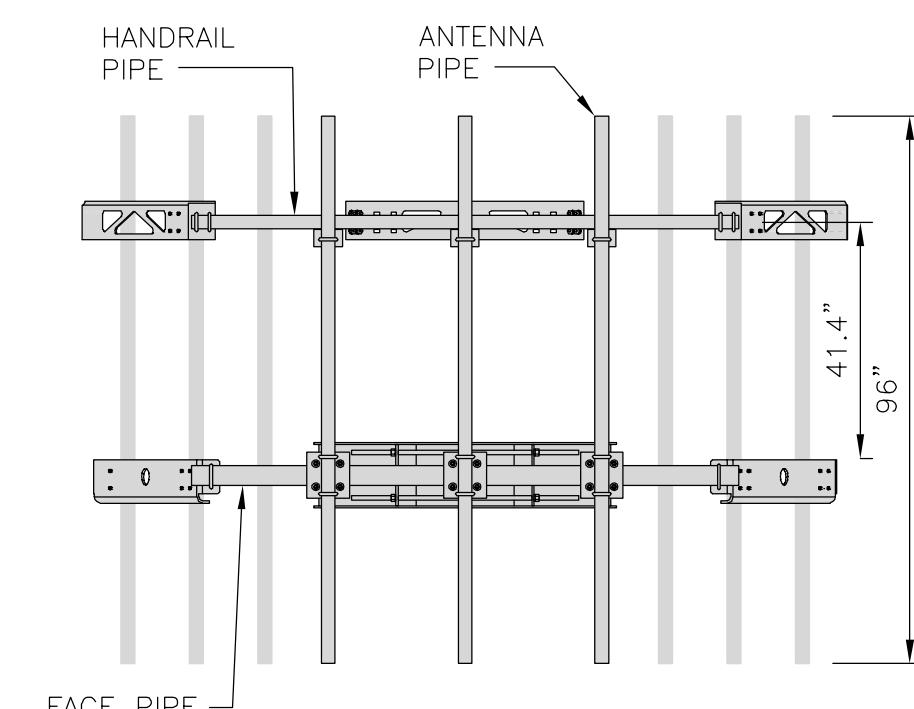
RRH/OVP MOUNT DETAIL

NO SCALE

7

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

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



ANTENNA PLATFORM DETAIL

NO SCALE

8

NOT USED

NO SCALE

9

dish
wireless.

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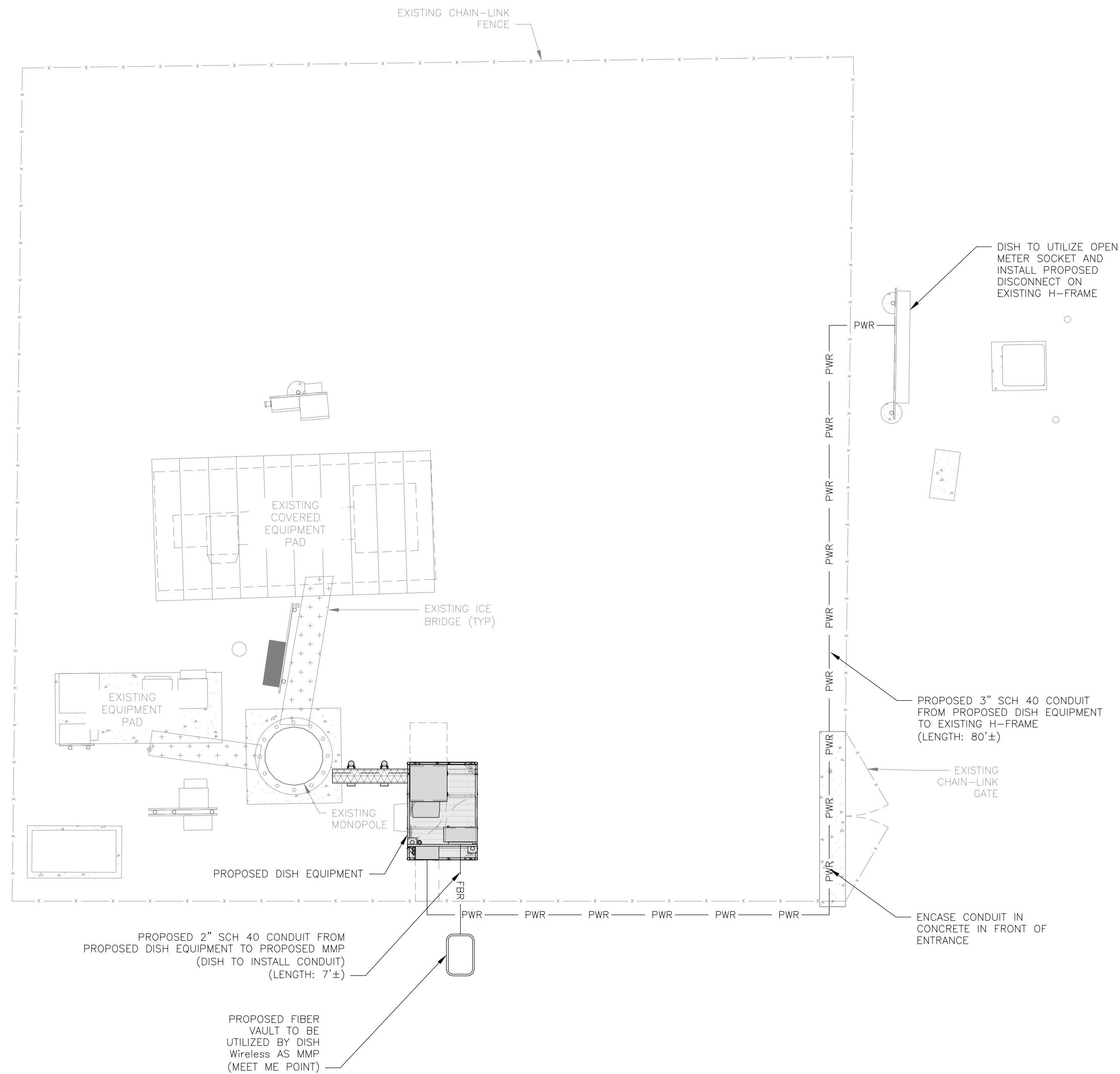
SHEET TITLE
EQUIPMENT DETAILS

SHEET NUMBER

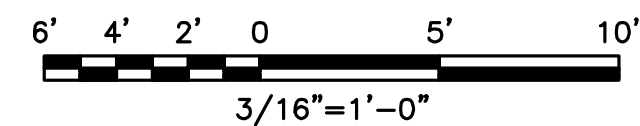
A-6

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



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



UTILITY EASEMENT

NO SCALE

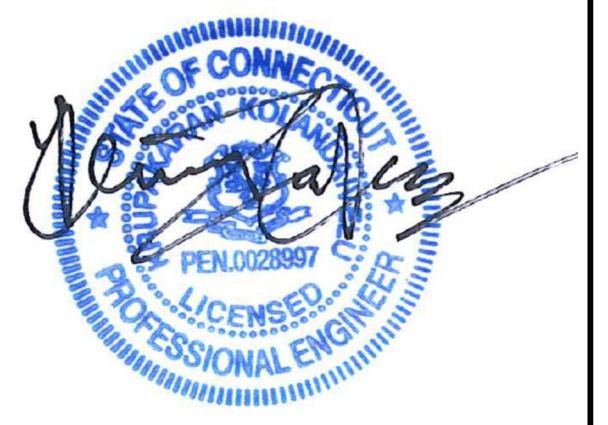
3



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04/06/2022
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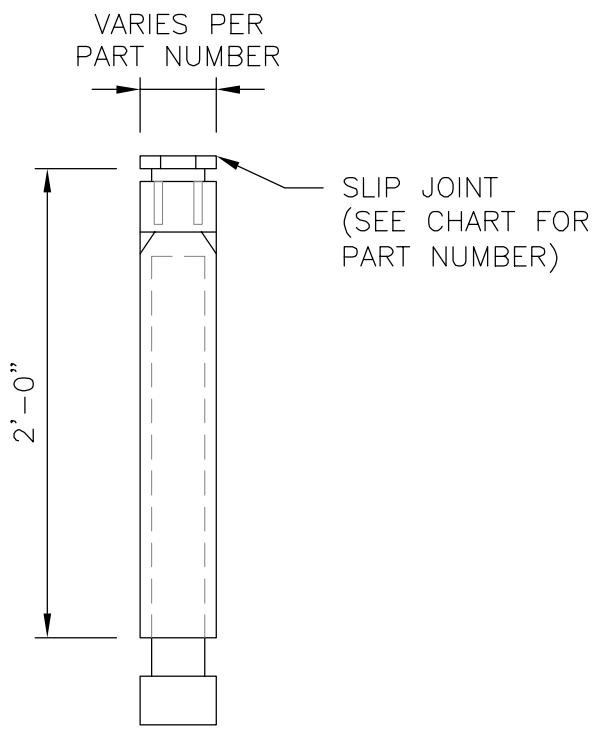
DISH Wireless L.L.C.
PROJECT INFORMATION
BOHVN00029A
15 KLUGE ROAD
PROSPECT, CT 06712

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

SHEET NUMBER
E-1

CARLON EXPANSION FITTINGS

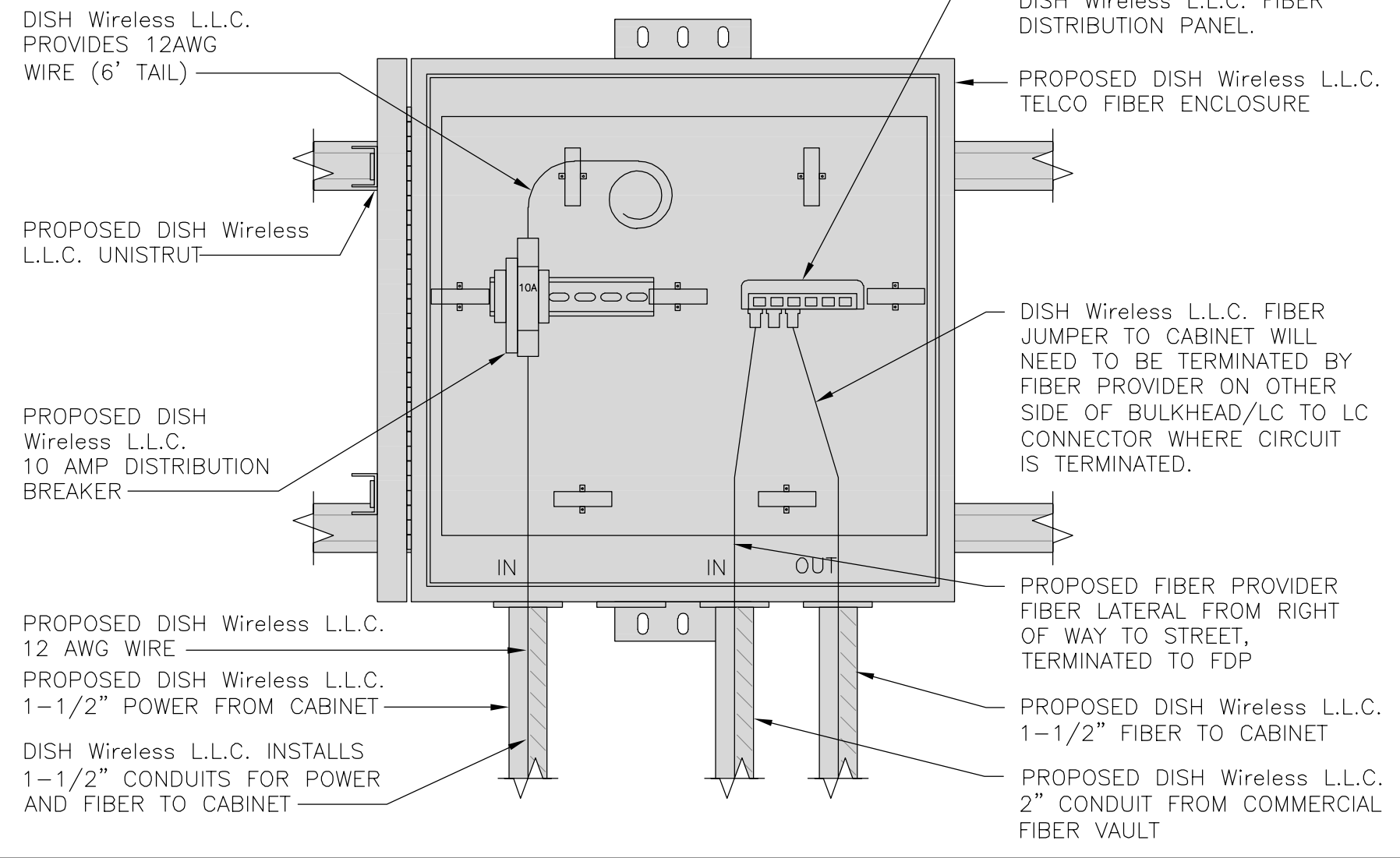
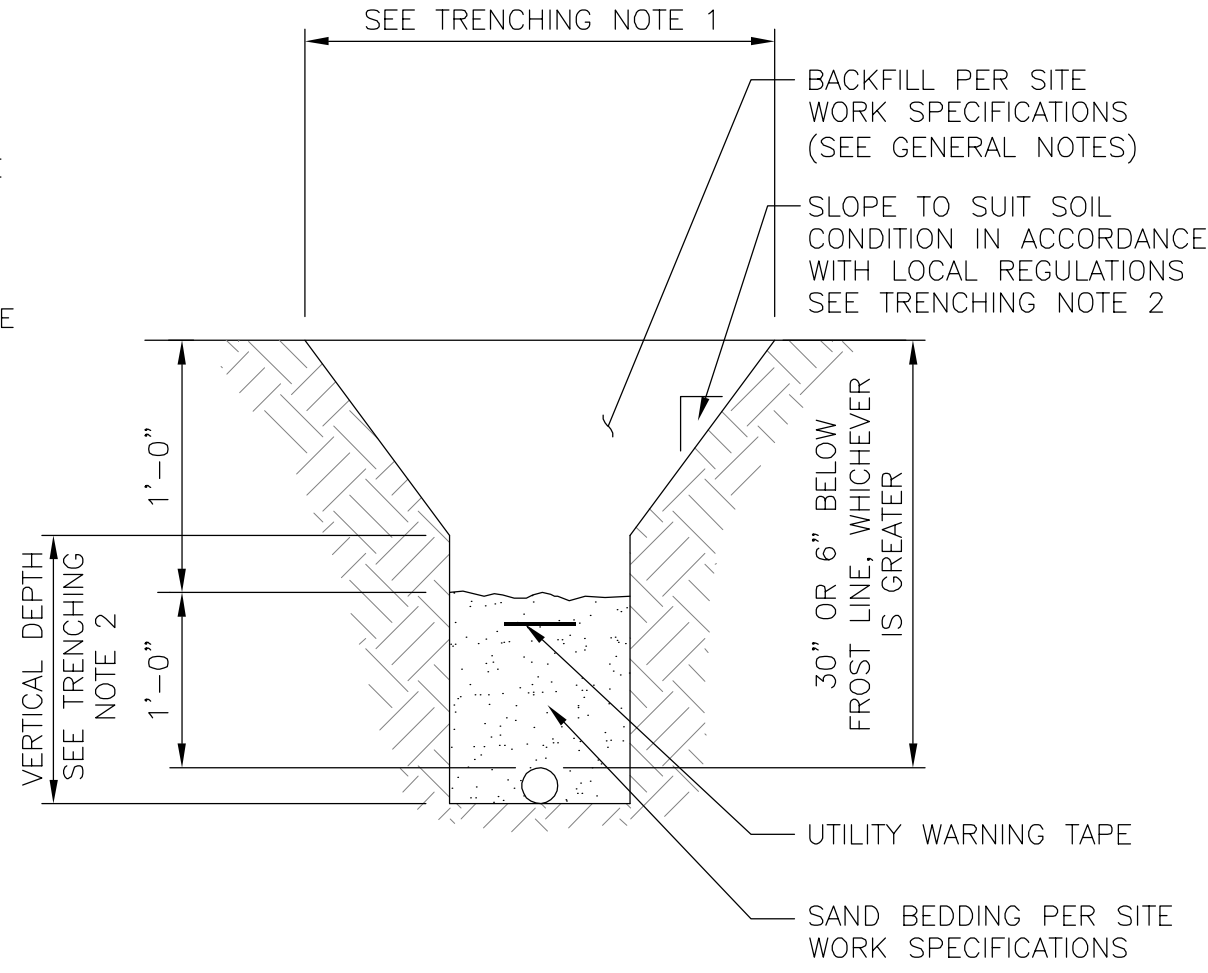
COUPLING END PART#	MALE TERMINAL ADAPTER END PART#	SIZE	STD CTN QTY.	TRAVEL LENGTH
E945D	E945DX	1/2"	20	4"
E945E	E945EX	3/4"	15	4"
E945F	E945FX	1"	10	4"
E945G	E945GX	1 1/4"	5	4"
E945H	E945HX	1 1/2"	5	4"
E945J	E945JX	2"	15	8"
E945K	E945KX	2 1/2"	10	8"
E945L	E945LX	3"	10	8"
E945M	E945MX	3 1/2"	5	8"
E945N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



EXPANSION JOINT DETAIL

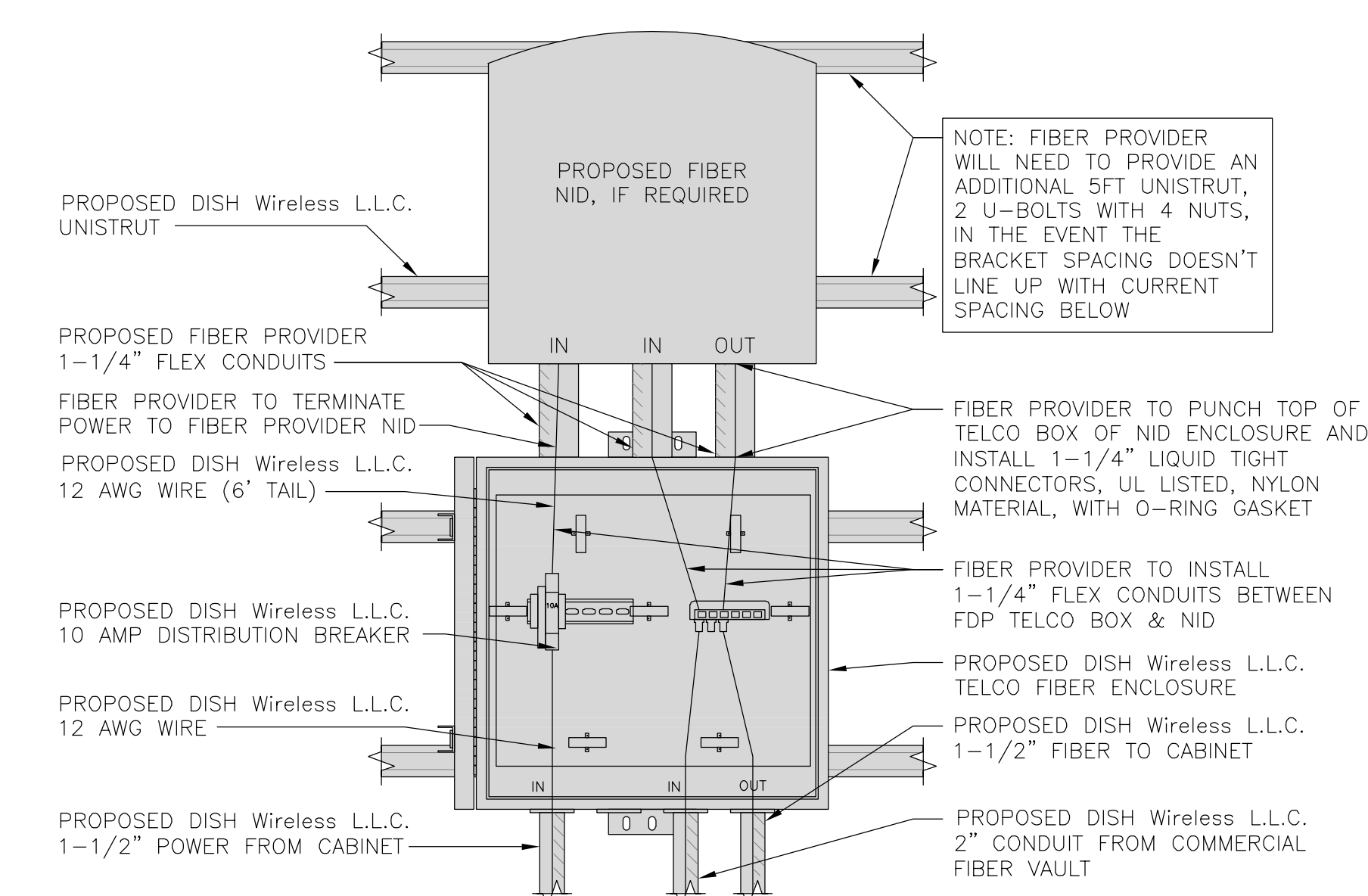
NO SCALE 1

TYPICAL UNDERGROUND TRENCH DETAIL

NO SCALE 2

DARK TELCO BOX – INTERIOR WIRING LAYOUT

NO SCALE 3



LIT TELCO BOX – INTERIOR WIRING LAYOUT (OPTIONAL)

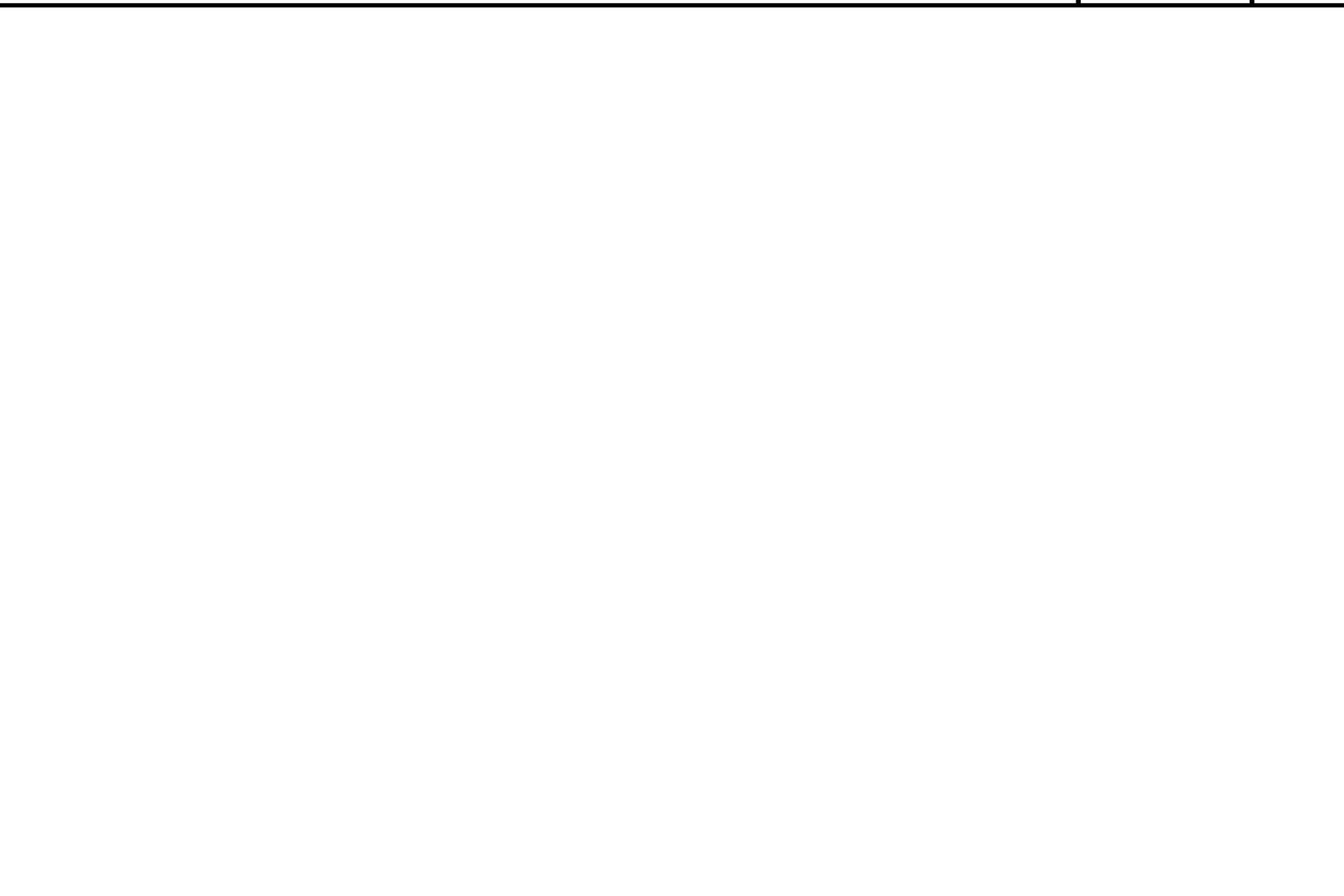
NO SCALE 4

NOT USED

NO SCALE 5

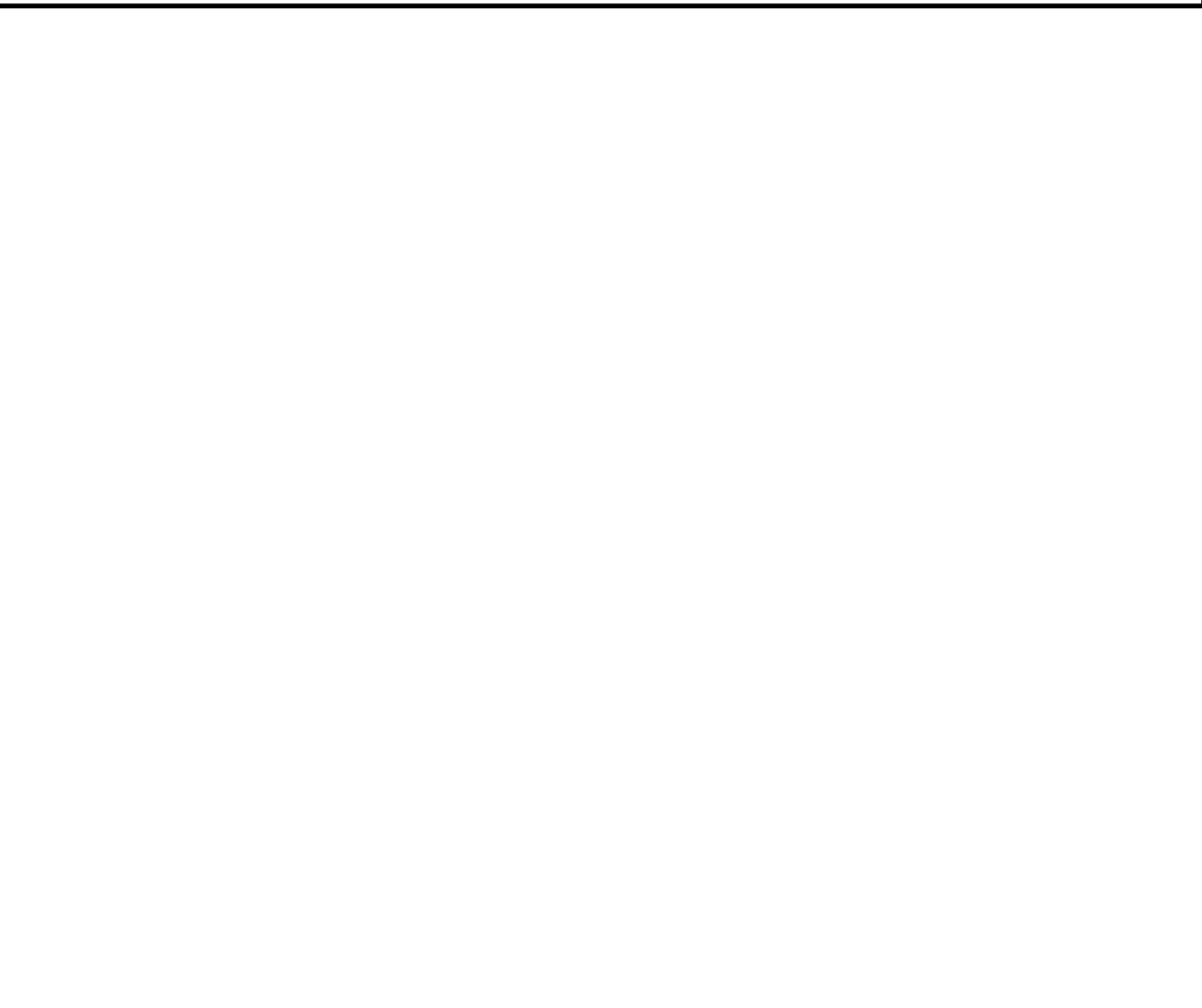
NOT USED

NO SCALE 6



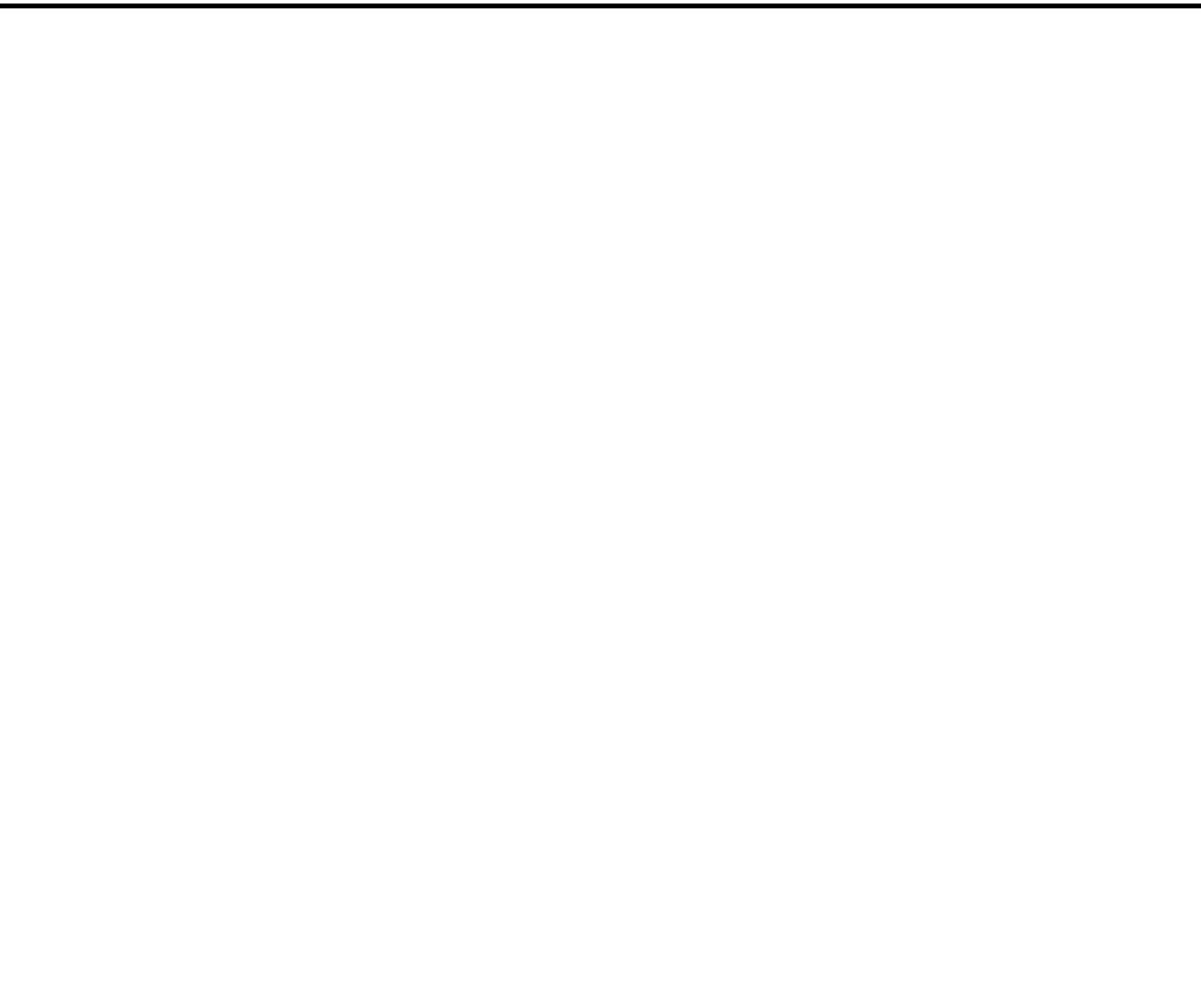
NOT USED

NO SCALE 7



NOT USED

NO SCALE 8



NOT USED

NO SCALE 9



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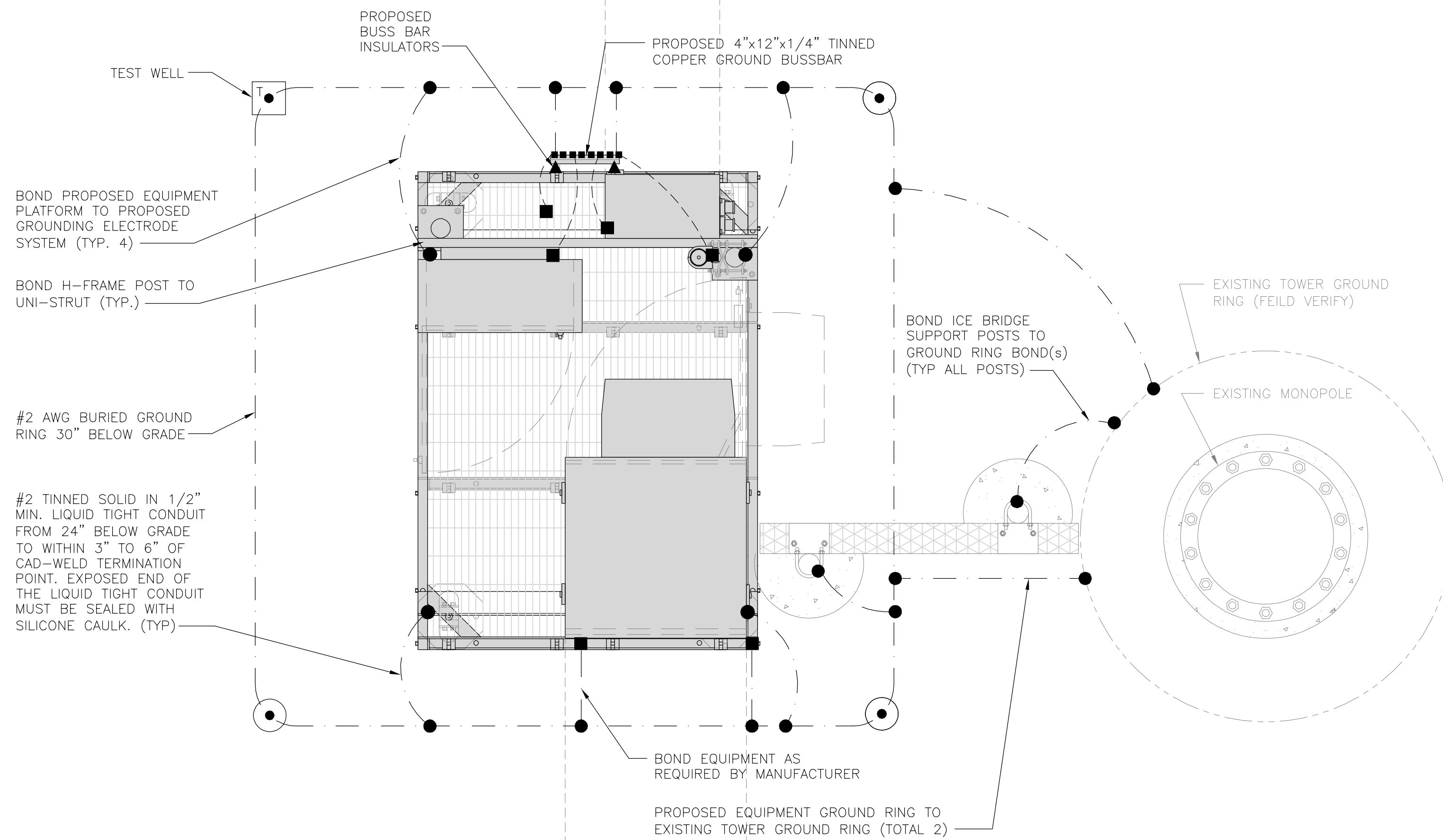
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PROJECT INFORMATION
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15 KLUGE ROAD
PROSPECT, CT 06712

SHEET TITLE
ELECTRICAL DETAILS

SHEET NUMBER
E-2

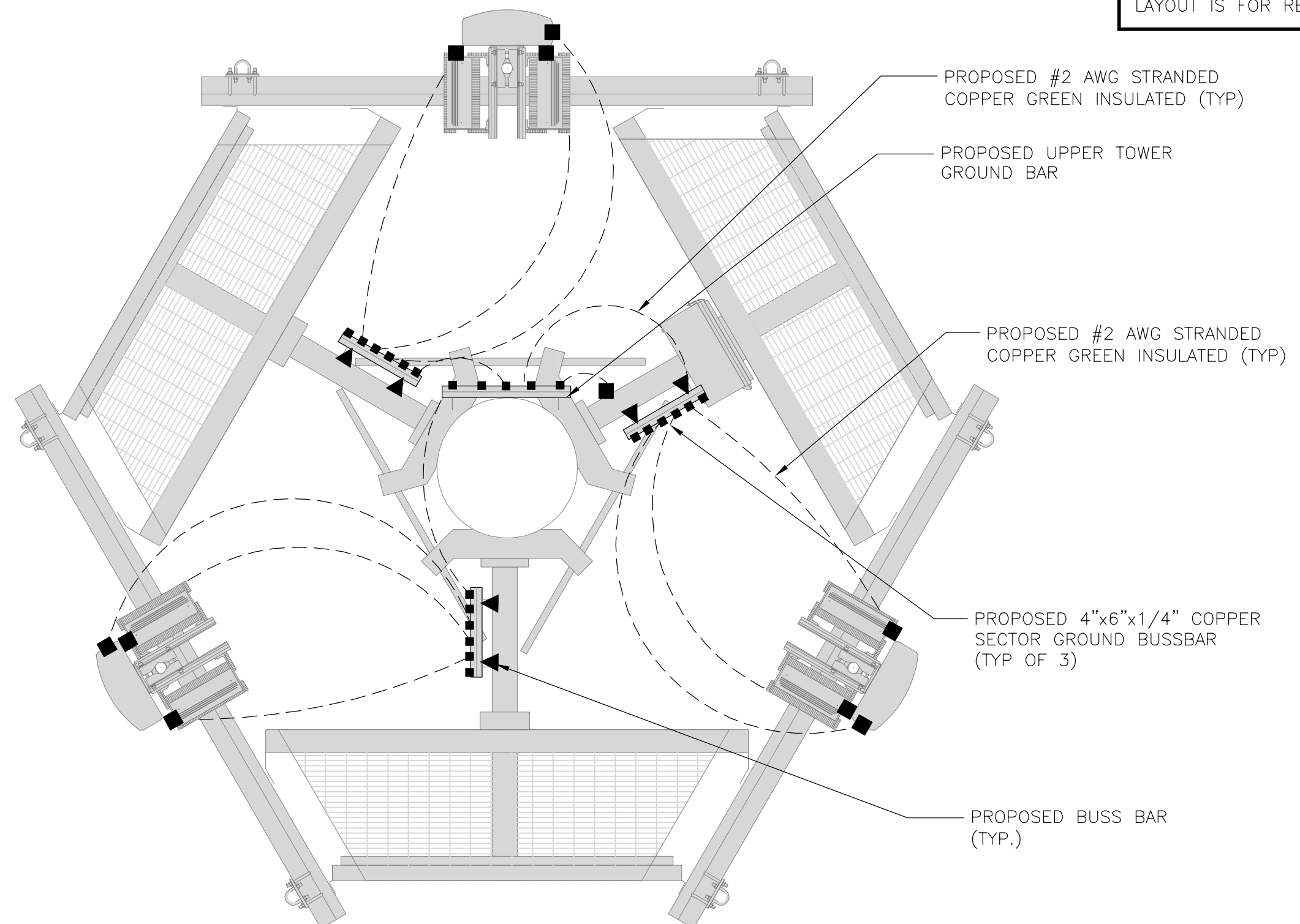


TYPICAL EQUIPMENT GROUNDING PLAN

NO SCALE 1

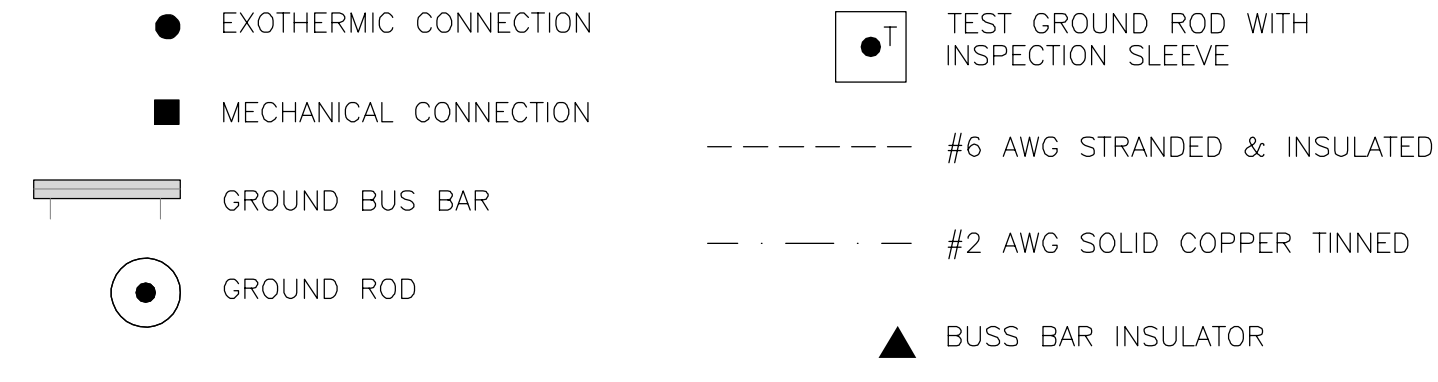
NOTES

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 L.L.C. 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 GROUND TO THE INTERIOR GROUND RING WITH #6 AWG STRANDED GREEN INSULATED CONDUCTOR.
- (D) BOND TO INTERIOR GROUND RING: #2 AWG SOLID TINNED COPPER WIRE PRIMARY BONDS SHALL BE PROVIDED AT LEAST AT FOUR POINTS ON THE INTERIOR GROUND RING, LOCATED AT THE CORNERS OF THE BUILDING.
- (E) GROUND ROD: UL LISTED COPPER CLAD STEEL. MINIMUM 1/2" DIAMETER BY EIGHT FEET LONG. GROUND RODS SHALL BE INSTALLED WITH INSPECTION SLEEVES. GROUND RODS SHALL BE DRIVEN TO THE DEPTH OF GROUND RING CONDUCTOR.
- (F) CELL REFERENCE GROUND BAR: POINT OF GROUND REFERENCE FOR ALL COMMUNICATIONS EQUIPMENT FRAMES. ALL BONDS ARE MADE WITH #2 AWG UNLESS NOTED OTHERWISE STRANDED GREEN INSULATED COPPER CONDUCTORS. BOND TO GROUND RING WITH (2) #2 SOLID TINNED COPPER CONDUCTORS.
- (G) HATCH PLATE GROUND BAR: BOND TO THE INTERIOR GROUND RING WITH TWO #2 AWG STRANDED GREEN INSULATED COPPER CONDUCTORS. WHEN A HATCH-PLATE AND A CELL REFERENCE GROUND BAR ARE BOTH PRESENT, THE CRGB MUST BE CONNECTED TO THE HATCH-PLATE AND TO THE INTERIOR GROUND RING USING (2) TWO #2 AWG STRANDED GREEN INSULATED COPPER CONDUCTORS EACH.
- (H) EXTERIOR CABLE ENTRY PORT GROUND BARS: LOCATED AT THE ENTRANCE TO THE CELL SITE BUILDING. BOND TO GROUND RING WITH A #2 AWG SOLID TINNED COPPER CONDUCTORS WITH AN EXOTHERMIC WELD AND INSPECTION SLEEVE.
- (I) TELCO GROUND BAR: BOND TO BOTH CELL REFERENCE GROUND BAR OR EXTERIOR GROUND RING.
- (J) FRAME BONDING: THE BONDING POINT FOR TELECOM EQUIPMENT FRAMES SHALL BE THE GROUND BUS THAT IS NOT ISOLATED FROM THE EQUIPMENTS METAL FRAMEWORK.
- (K) INTERIOR UNIT BONDS: METAL FRAMES, CABINETS AND INDIVIDUAL METALLIC UNITS LOCATED WITH THE AREA OF THE INTERIOR GROUND RING REQUIRE A #6 AWG STRANDED GREEN INSULATED COPPER BOND TO THE INTERIOR GROUND RING.
- (L) FENCE AND GATE GROUNDING: METAL FENCES WITHIN 7 FEET OF THE EXTERIOR GROUND RING OR OBJECTS BONDED TO THE EXTERIOR GROUND RING SHALL BE BONDED TO THE GROUND RING WITH A #2 AWG SOLID TINNED COPPER CONDUCTOR AT AN INTERVAL NOT EXCEEDING 25 FEET. BONDS SHALL BE MADE AT EACH GATE POST AND ACROSS GATE OPENINGS.
- (M) EXTERIOR UNIT BONDS: METALLIC OBJECTS, EXTERNAL TO OR MOUNTED TO THE BUILDING, SHALL BE BONDED TO THE EXTERIOR GROUND RING. USING #2 TINNED SOLID COPPER WIRE
- (N) ICE BRIDGE SUPPORTS: EACH ICE BRIDGE LEG SHALL BE BONDED TO THE GROUND RING WITH #2 AWG BARE TINNED COPPER CONDUCTOR. PROVIDE EXOTHERMIC WELDS AT BOTH THE ICE BRIDGE LEG AND BURIED GROUND RING.
- (O) DURING ALL DC POWER SYSTEM CHANGES INCLUDING DC SYSTEM CHANGE OUTS, RECTIFIER REPLACEMENTS OR ADDITIONS, BREAKER DISTRIBUTION CHANGES, BATTERY ADDITIONS, BATTERY REPLACEMENTS AND INSTALLATIONS OR CHANGES TO DC CONVERTER SYSTEMS IT SHALL BE REQUIRED THAT SERVICE CONTRACTORS VERIFY ALL DC POWER SYSTEMS ARE EQUIPPED WITH A MASTER DC SYSTEM RETURN GROUND CONDUCTOR FROM THE DC POWER SYSTEM COMMON RETURN BUS DIRECTLY CONNECTED TO THE CELL SITE REFERENCE GROUND BAR
- (P) TOWER TOP COLLECTOR BUSS BAR IS TO BE MECHANICALLY BONDED TO PROPOSED ANTENNA MOUNT COLLAR. REFER TO DISH Wireless L.L.C. GROUNDING NOTES.

GROUNDING KEY NOTES

NO SCALE 3



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04/06/2022
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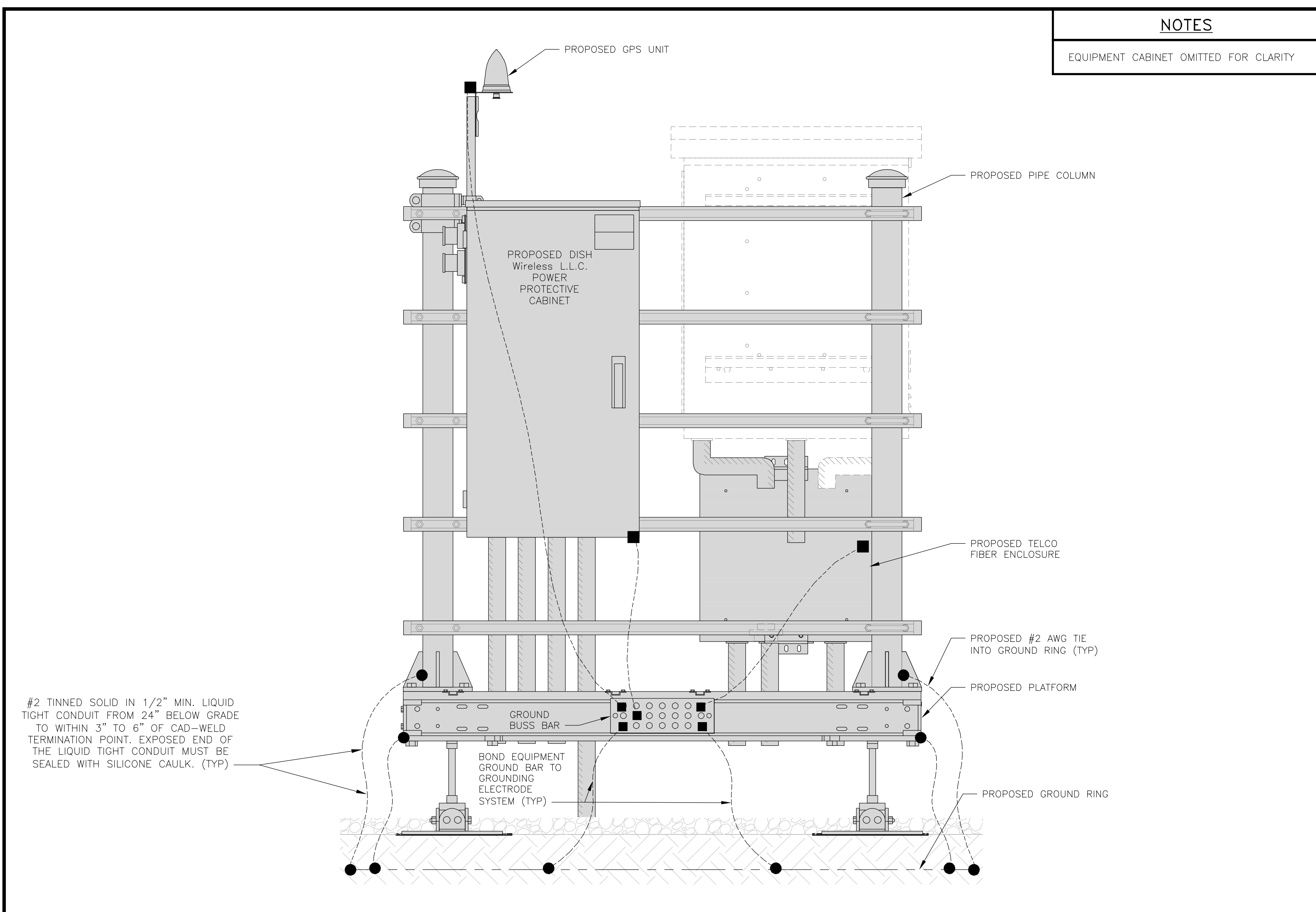
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BOHVN00029A
15 KLUGE ROAD
PROSPECT, CT 06712

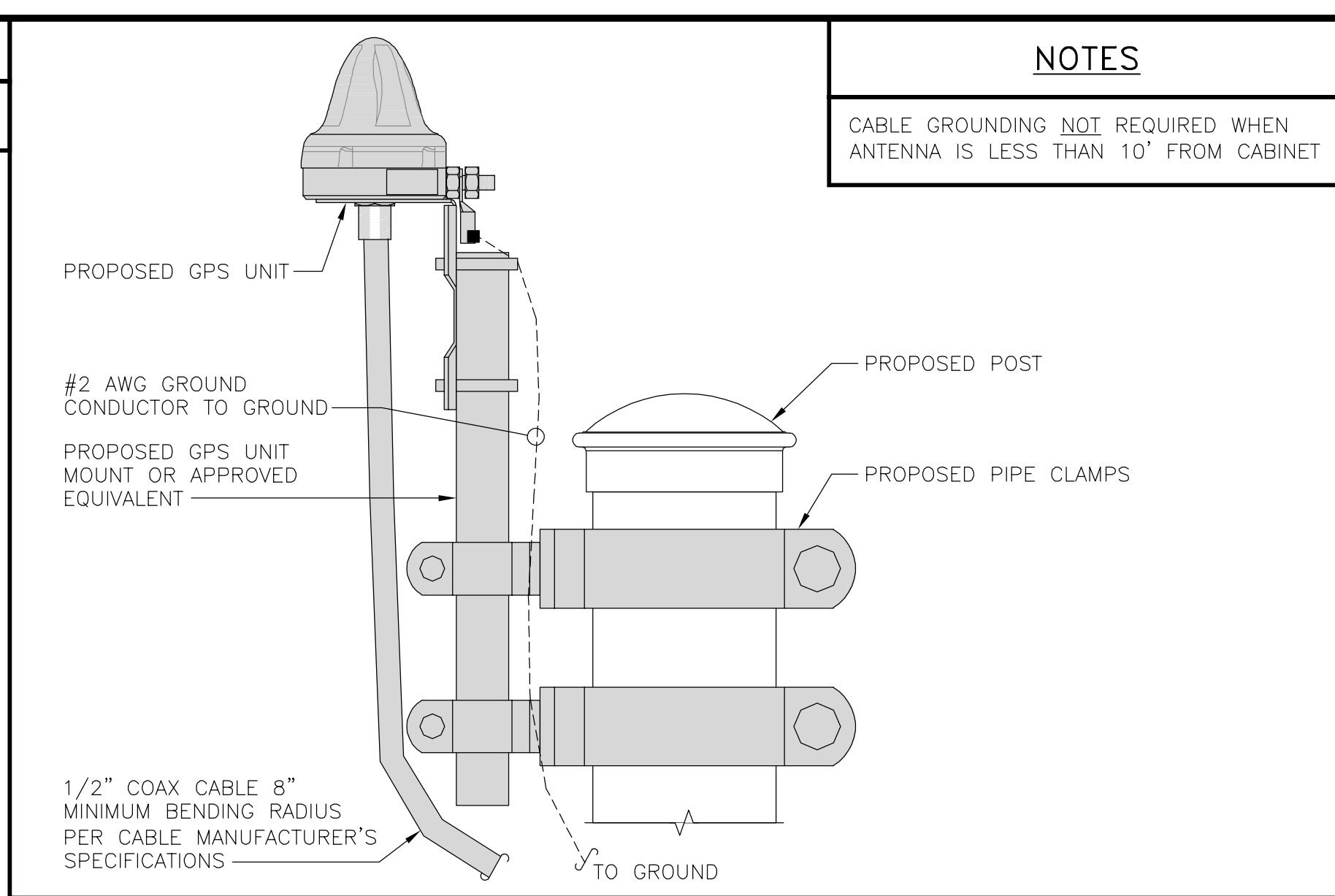
SHEET TITLE
GROUNDING PLANS
AND NOTES

SHEET NUMBER
G-1



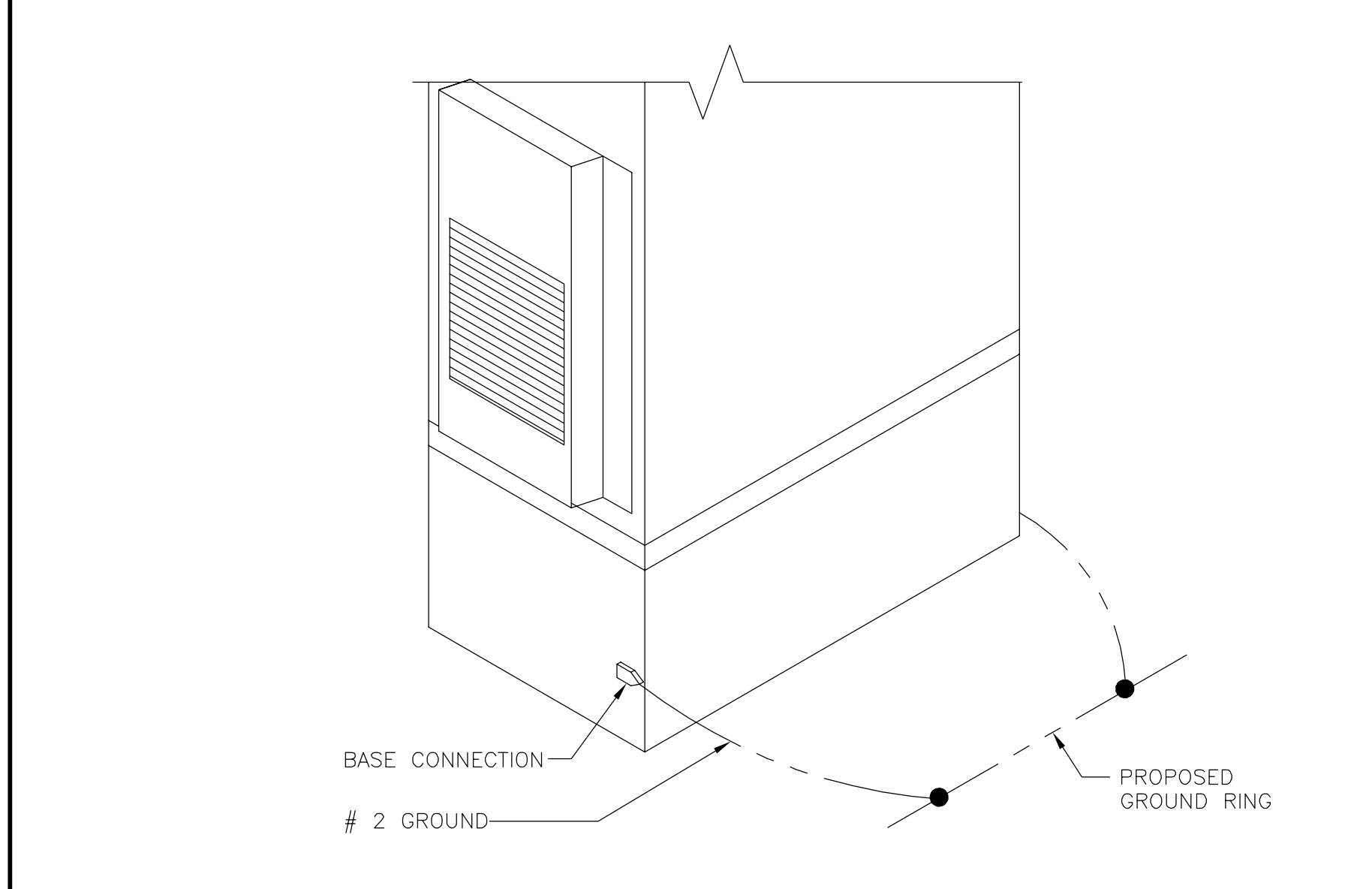
NOTES
EQUIPMENT CABINET OMITTED FOR CLARITY

H-FRAME GROUNDING DETAIL NO SCALE 1

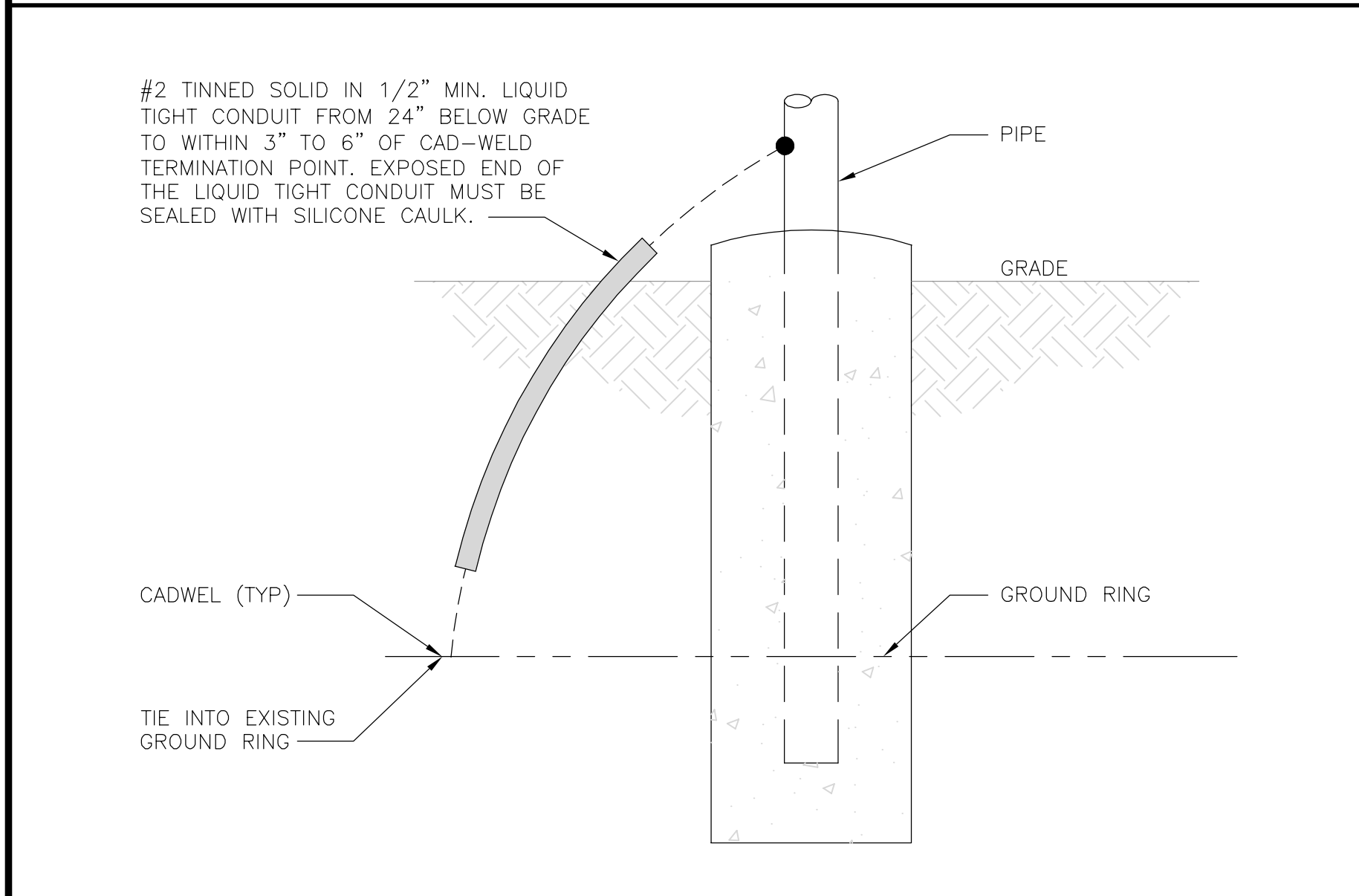


NOTES
CABLE GROUNDING NOT REQUIRED WHEN ANTENNA IS LESS THAN 10' FROM CABINET

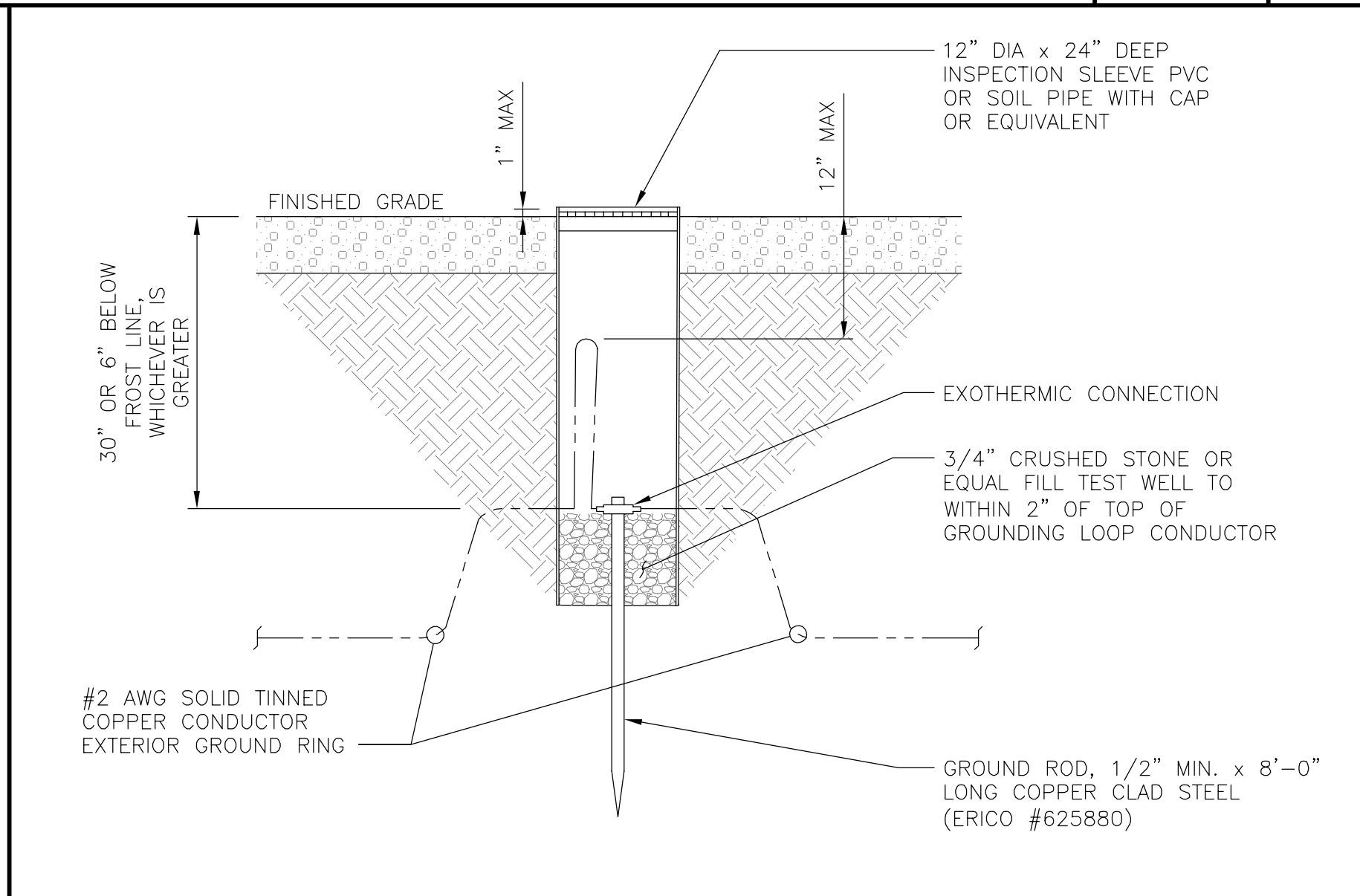
TYPICAL GPS UNIT GROUNDING NO SCALE 2



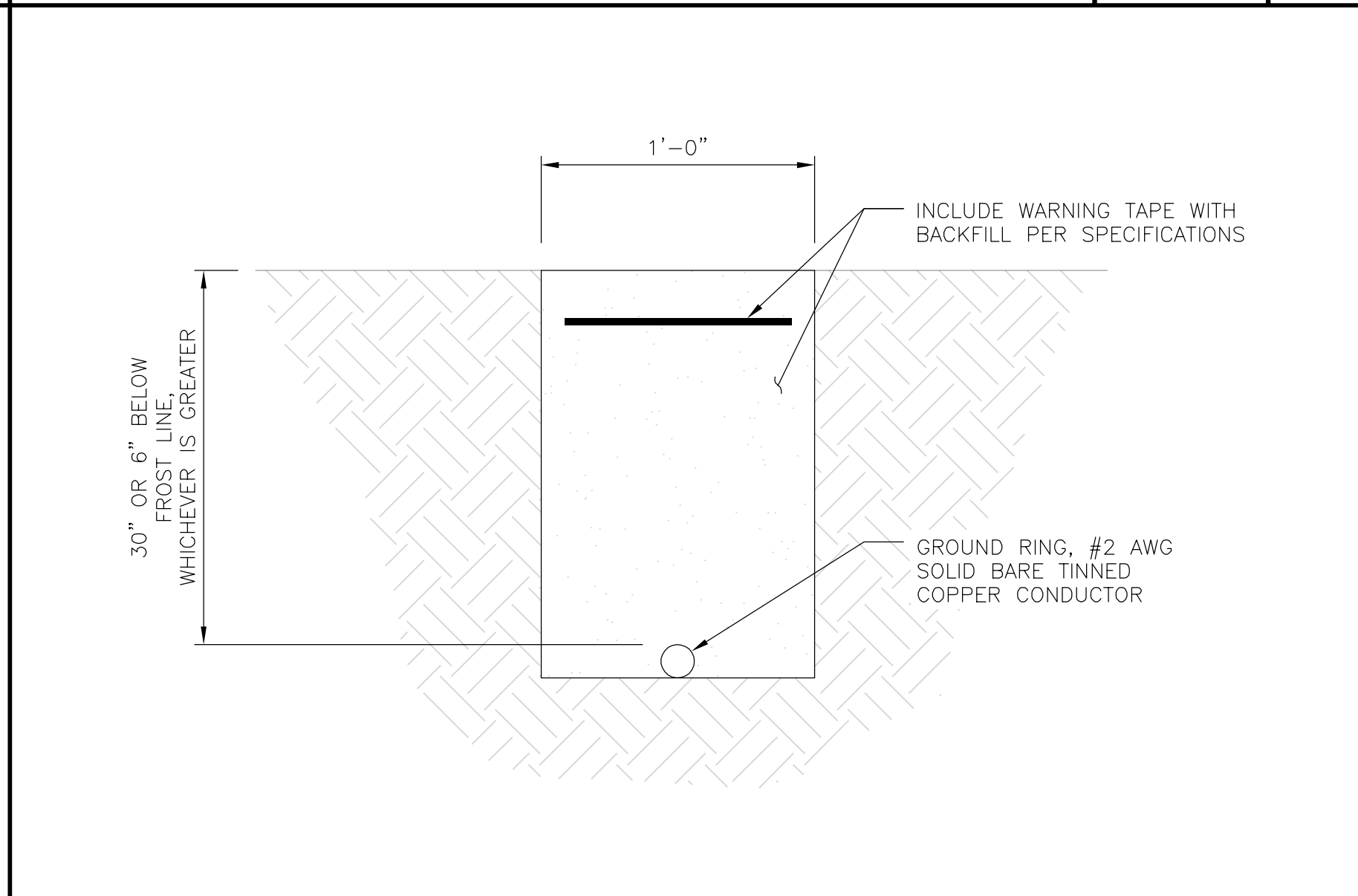
OUTDOOR CABINET GROUNDING NO SCALE 3



TRANSITIONING GROUND DETAIL NO SCALE 4



TYPICAL TEST GROUND ROD WITH INSPECTION SLEEVE NO SCALE 5



TYPICAL GROUND RING TRENCH NO SCALE 6

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TOTALLY COMMITTED.

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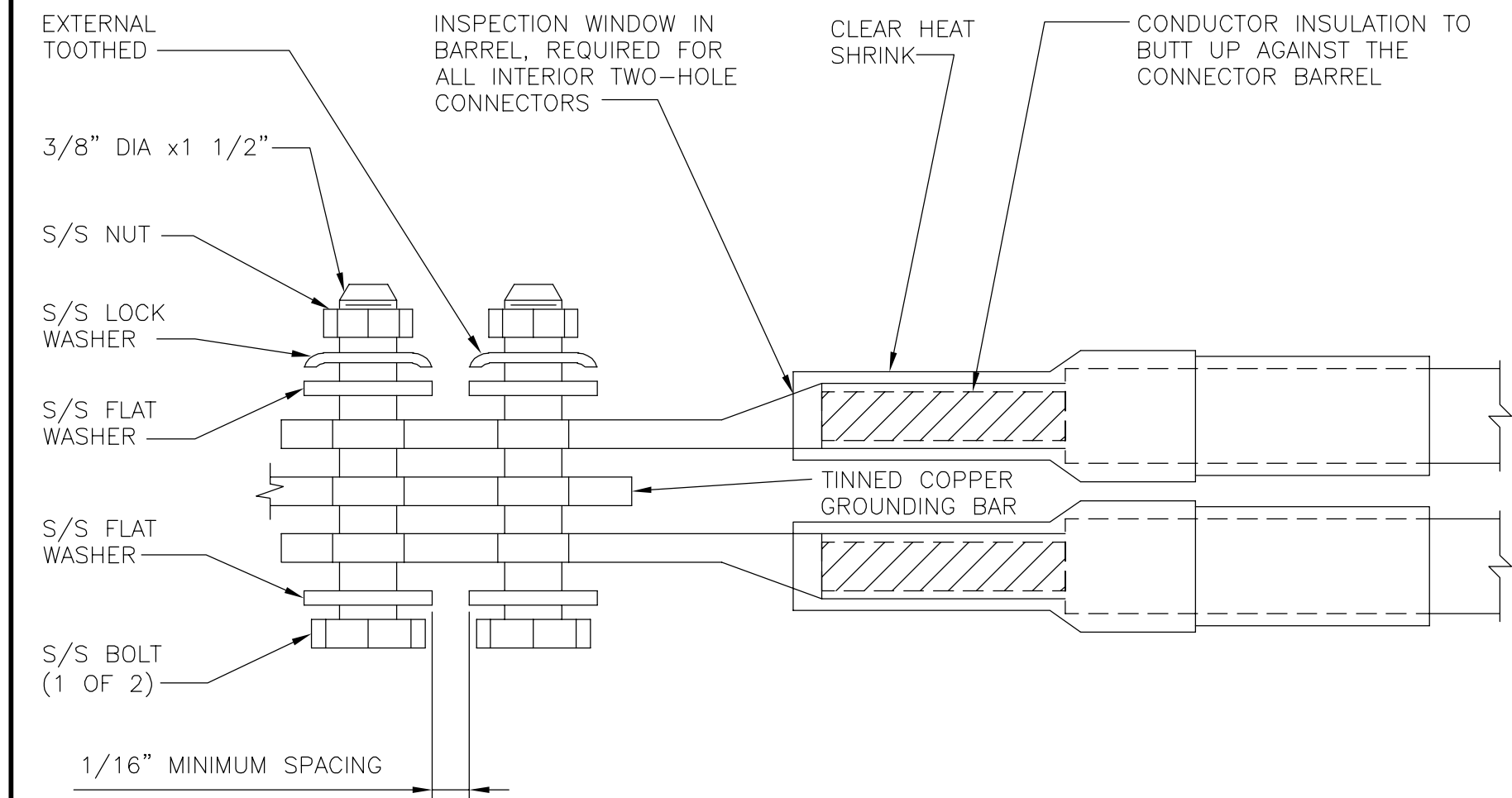
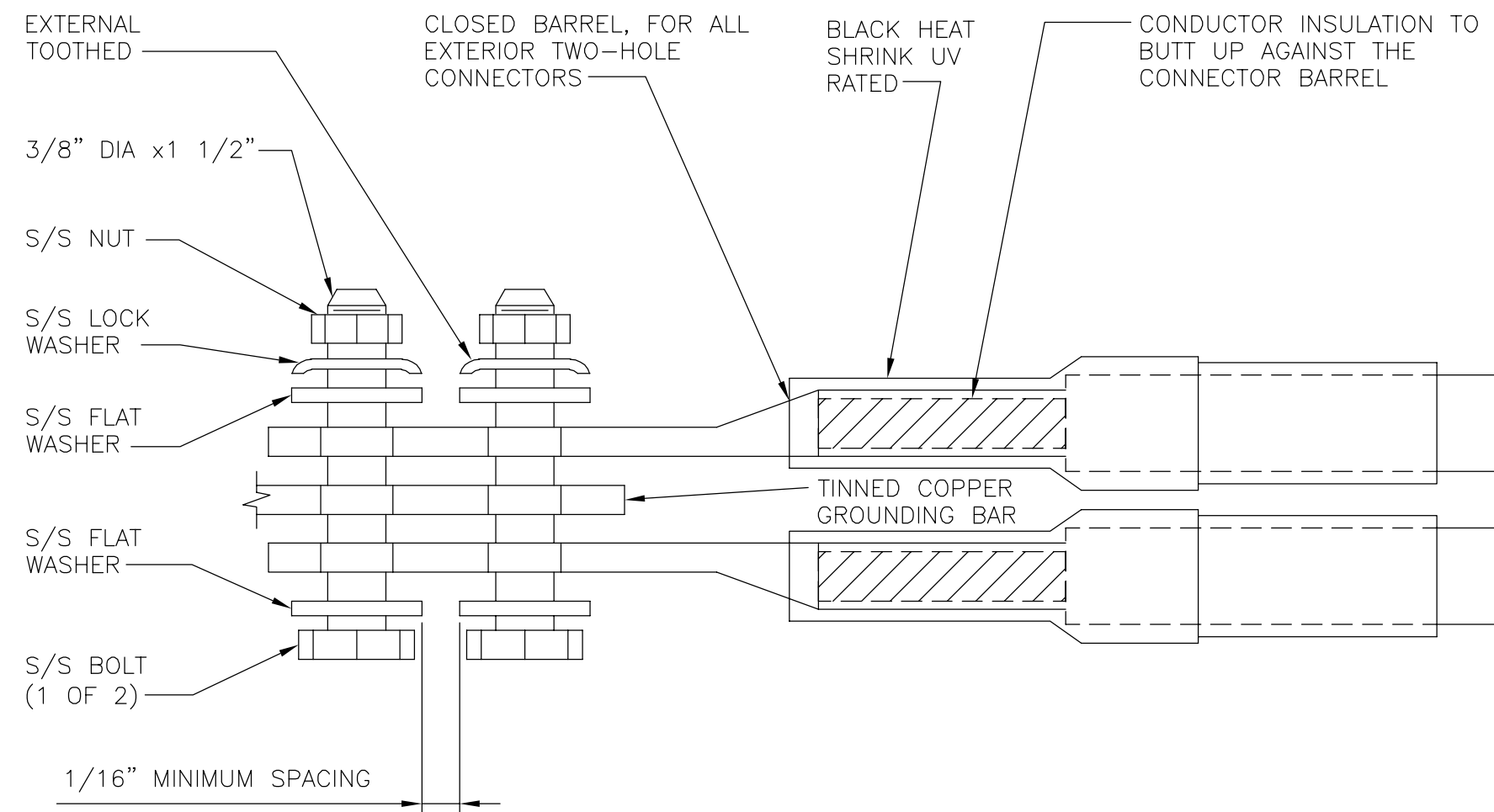
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SHEET TITLE
GROUNDING DETAILS

SHEET NUMBER
G-2

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



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SHEET TITLE
GROUNDING DETAILS

SHEET NUMBER
G-3

TYPICAL GROUNDING NOTES

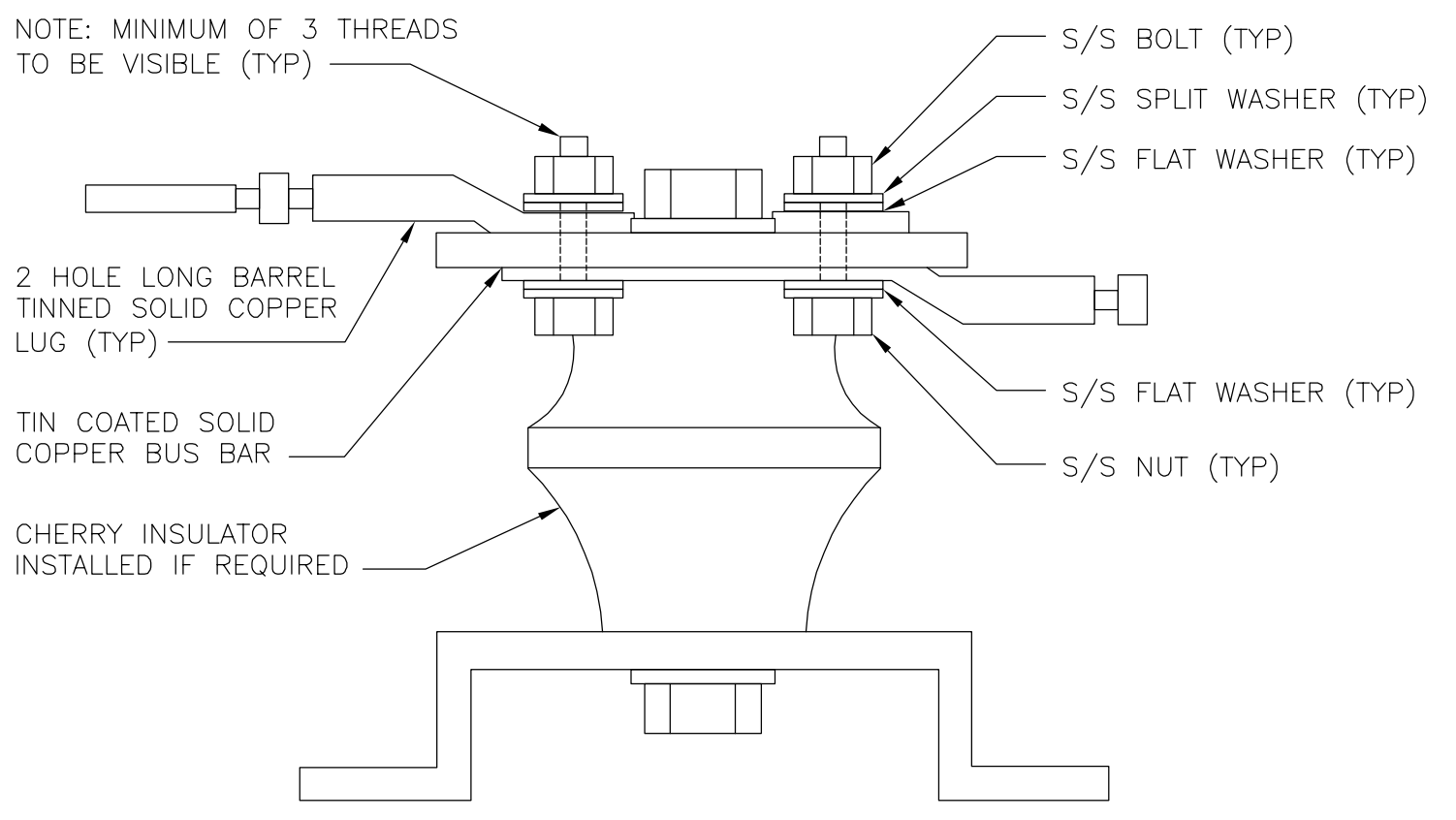
NO SCALE 1

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

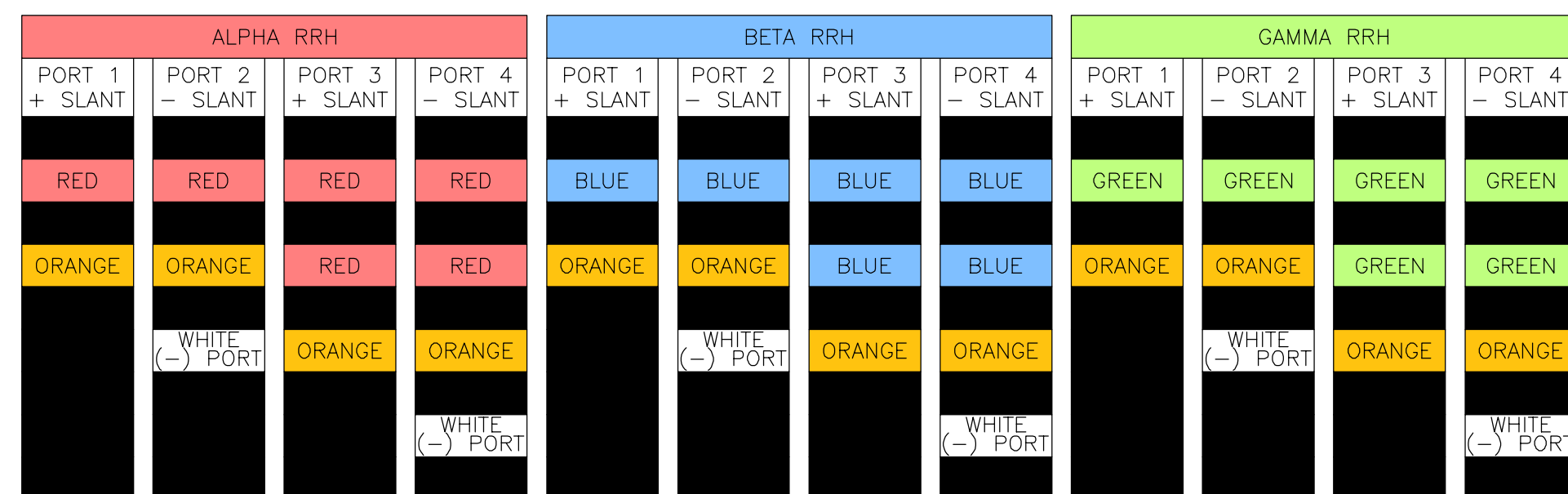
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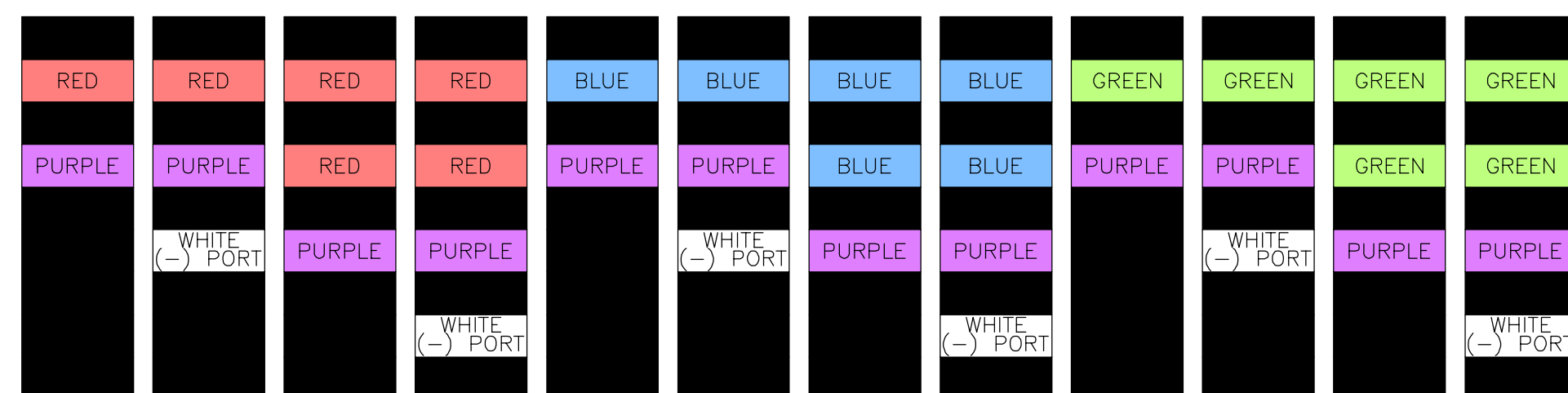
HYBRID/DISCREET CABLES

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)



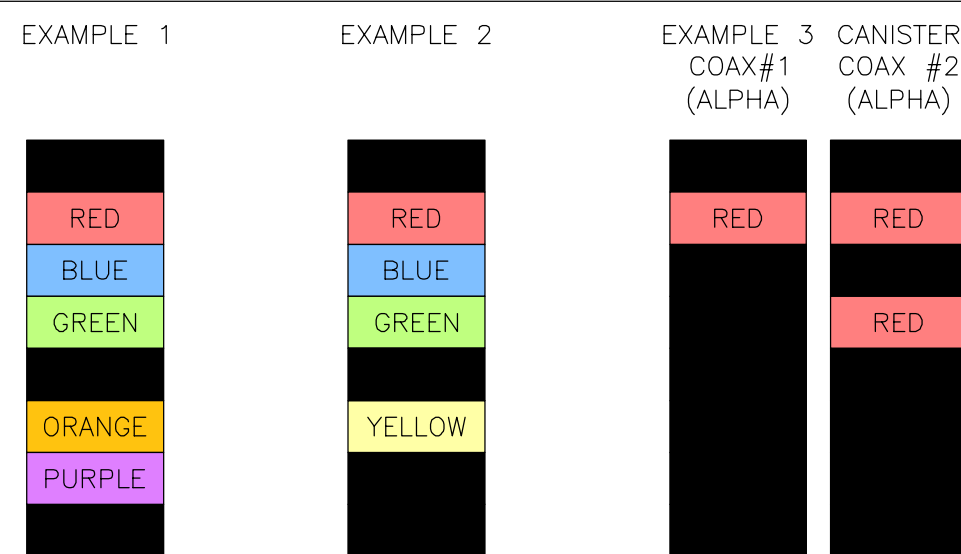
HYBRID/DISCREET CABLES

INCLUDE SECTOR BANDS BEING SUPPORTED
ALONG WITH FREQUENCY BANDS.

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

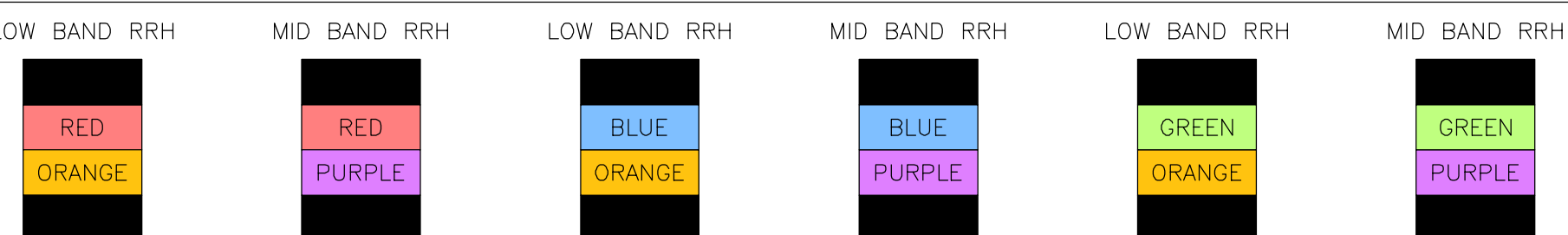
EXAMPLE 2 - HYBRID, OR DISCREET, SUPPORTS
CBRS ONLY, ALL SECTORS.

EXAMPLE 3 - MAIN COAX WITH GROUND
MOUNTED RRHS.



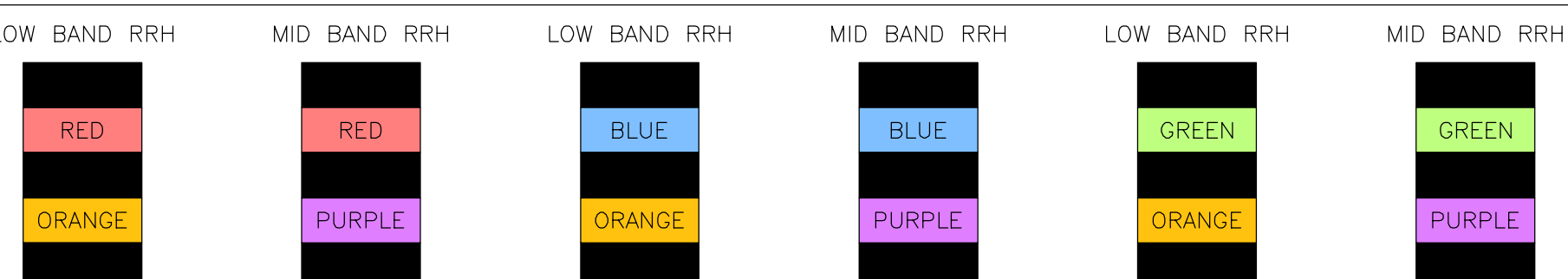
FIBER JUMPERS TO RRHS

LOW-BAND HHR FIBER CABLES HAVE SECTOR
STRIPE ONLY.



POWER CABLES TO RRHS

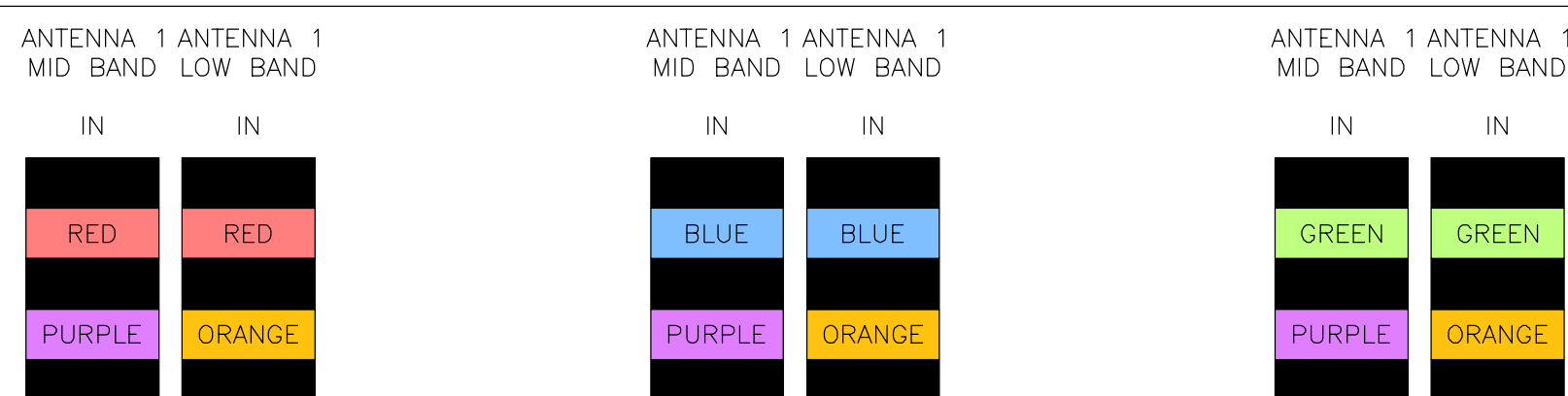
LOW-BAND RRH POWER CABLES HAVE SECTOR
STRIPE ONLY



RET MOTORS AT ANTENNAS

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

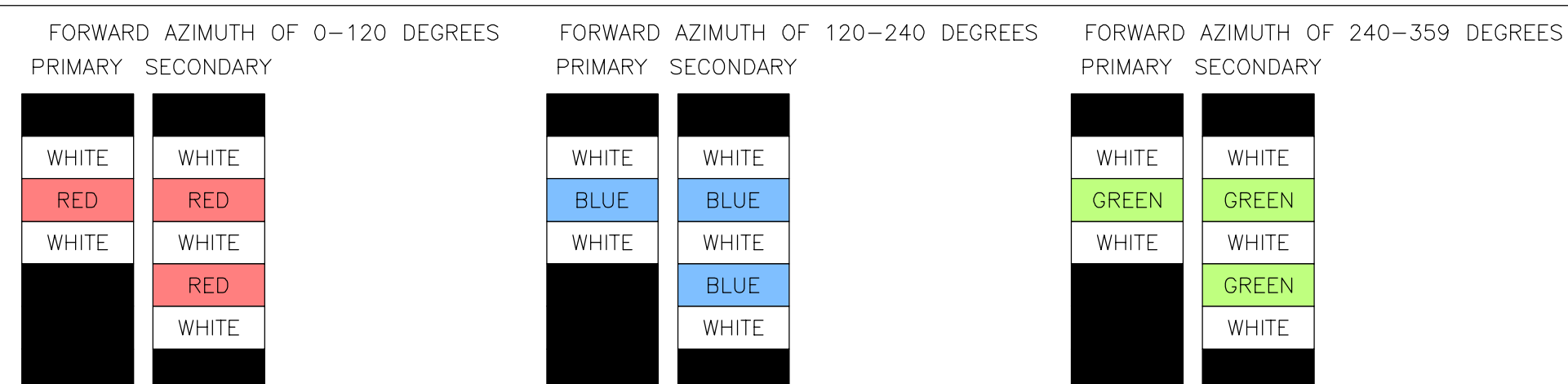
SEPARATE RET CABLES ARE USED WHEN
ANTENNA PORTS PROVIDE INPUTS FOR BOTH
LOW AND MID BANDS.



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.



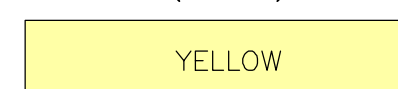
LOW BANDS (N71+N26)
OPTIONAL - (N29)



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



5701 SOUTH SANTA FE DRIVE
LITTLETON, CO 80120



NB+C ENGINEERING SERVICES, LLC.
6095 MARSHALEE DRIVE, SUITE 300
ELKRIDGE, MD 21075
(410) 712-7092



04/06/2022
KRUPAKARAN KOLANDAIVELU, P.E.
STATE OF CONNECTICUT
PROFESSIONAL ENGINEER
LICENSE #PEN.0028997

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BPC BRN TA

RFDS REV #: ---

CONSTRUCTION
DOCUMENTS

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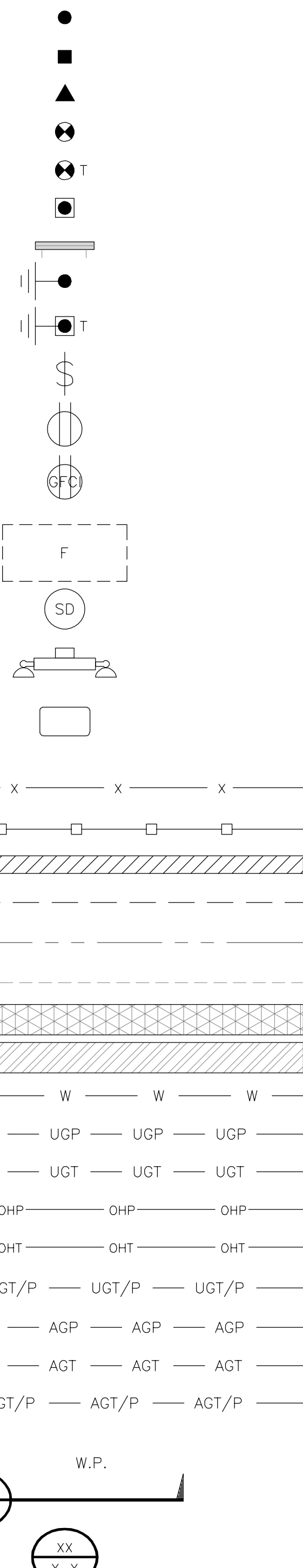
A&E PROJECT NUMBER
876378

DISH Wireless L.L.C.
PROJECT INFORMATION
BOHVN00029A
15 KLUGE ROAD
PROSPECT, CT 06712

SHEET TITLE
RF
CABLE COLOR CODES

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

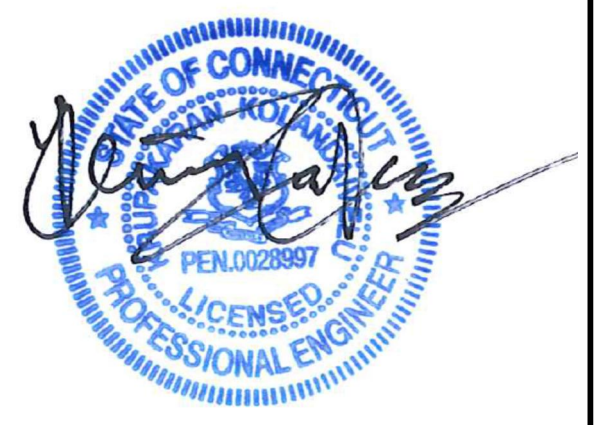
ABBREVIATIONS



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TOTALLY COMMITTED.
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SHEET TITLE
LEGEND AND ABBREVIATIONS

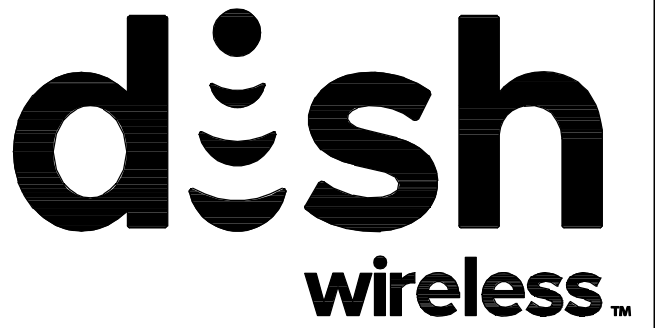
SHEET NUMBER
GN-1

SITE ACTIVITY REQUIREMENTS:

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

GENERAL NOTES:

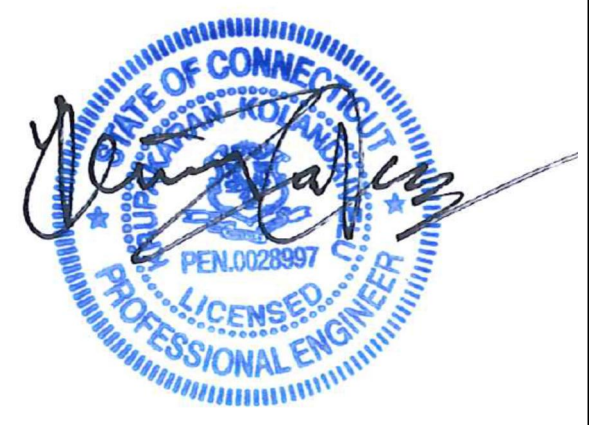
1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:
CONTRACTOR: GENERAL CONTRACTOR RESPONSIBLE FOR CONSTRUCTION
CARRIER: DISH Wireless L.L.C.
TOWER OWNER: TOWER OWNER
2. THESE DRAWINGS HAVE BEEN PREPARED USING STANDARDS OF PROFESSIONAL CARE AND COMPLETENESS NORMALLY EXERCISED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



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PROSPECT, CT 06712

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.

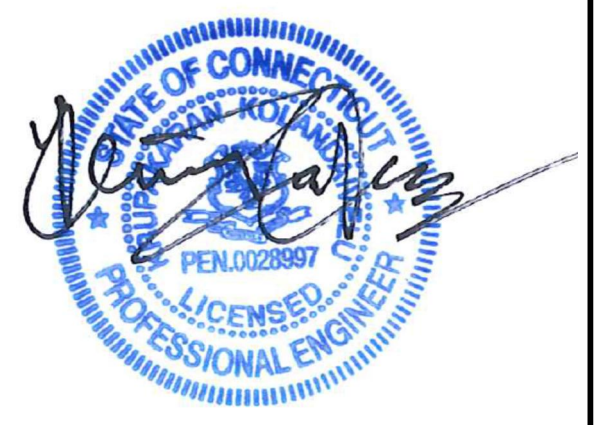
- ELECTRICAL METALLIC TUBING (EMT) OR METAL-CLAD CABLE (MC) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
- SCHEDULE 40 PVC UNDERGROUND ON STRAIGHTS AND SCHEDULE 80 PVC FOR ALL ELBOWS/90s AND ALL APPROVED ABOVE GRADE PVC CONDUIT.
- LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED 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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TOTALLY COMMITTED.
NB+C ENGINEERING SERVICES, LLC.
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(410) 712-7092



04/06/2022
KRUPAKARAN KOLANDAIVELU, P.E.
STATE OF CONNECTICUT
PROFESSIONAL ENGINEER
LICENSE #PEN.0028997

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DRAWN BY:	CHECKED BY:	APPROVED BY:
BPC	BRN	TA

RFDS REV #: ---

CONSTRUCTION DOCUMENTS

SUBMITTALS		
REV	DATE	DESCRIPTION
0	11/09/2021	ISSUED FOR CONSTRUCTION
1	04/06/2022	ISSUED FOR CONSTRUCTION

A&E PROJECT NUMBER
876378

DISH Wireless L.L.C.
PROJECT INFORMATION
BOHVN00029A
15 KLUGE ROAD
PROSPECT, CT 06712

SHEET TITLE
GENERAL NOTES

SHEET NUMBER
GN-3

GROUNDING NOTES:

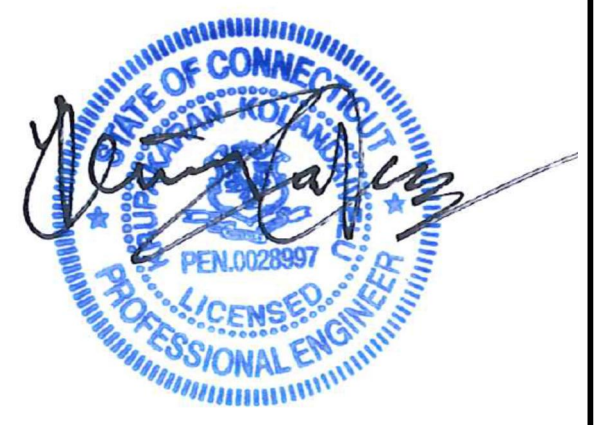
1. ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION AND AC POWER GES'S) SHALL BE BONDED TOGETHER AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.
2. THE CONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING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

BPC BRN TA

RFDS REV #: ---

CONSTRUCTION DOCUMENTS

SUBMITTALS		
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A&E PROJECT NUMBER
876378

DISH Wireless L.L.C.
PROJECT INFORMATION
BOHVN00029A
15 KLUGE ROAD
PROSPECT, CT 06712

SHEET TITLE
GENERAL NOTES

SHEET NUMBER
GN-4

Exhibit D

Structural Analysis Report

Date: May 24, 2022



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

Subject: Structural Analysis Report

Carrier Designation: DISH Network Co-Locate
Site Number: BOHVN00029A
Site Name: CT-CCI-T-876378

Crown Castle Designation: **BU Number:** 876378
Site Name: N. BETHANY / DAVID KLUDGE
JDE Job Number: 645192
Work Order Number: 2121273
Order Number: 553369 Rev. 3

Engineering Firm Designation: **Crown Castle Project Number:** 2121273

Site Data: 15 Kluge Road, PROSPECT, NEW HAVEN County, CT
Latitude 41° 28' 16.38", Longitude -72° 58' 18.87"
190 Foot - Monopole Tower

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

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

LC7: Proposed Equipment Configuration **Sufficient Capacity - 99.7%**

This analysis has been performed in accordance with the 2018 Connecticut State Building Code based upon an ultimate 3-second gust wind speed of 118 mph. Applicable Standard references and design criteria are listed in Section 2 - "Analysis Criteria".

Structural analysis prepared by: Drew Stephens

Respectfully submitted by:

Barimani
Digitally signed by Maham Barimani
Date: 2022.05.24 16:44:29
0400

Maham Barimani, P.E.
Senior Project Engineer

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1) INTRODUCTION

This tower is a 190 ft Monopole tower designed by Engineered Endeavors, Inc. The tower has been modified in the past to accommodate additional loading.

2) ANALYSIS CRITERIA

TIA-222 Revision:	TIA-222-H
Risk Category:	II
Wind Speed:	118 mph
Exposure Category:	C
Topographic Factor:	1
Ice Thickness:	1 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)
170.0	170.0	3	fujitsu	TA08025-B604	1	1-3/4
		3	fujitsu	TA08025-B605		
		3	jma wireless	MX08FRO665-21 w/ Mount Pipe		
		1	raycap	RDIDC-9181-PF-48		
		1	tower mounts	Commscope MC-PK8-DSH		

Table 2 - Other Considered Equipment

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
192.0	192.0	3	alcatel lucent	1900MHZ RRH (65MHZ)	4	1-1/4
		3	alcatel lucent	800 EXTERNAL NOTCH FILTER		
		3	alcatel lucent	800MHZ RRH		
		3	alcatel lucent	TD-RRH8X20-25		
		9	rfs celwave	ACU-A20-N		
		1	rfs celwave	APXV9ERR18-C-A20 w/ Mount Pipe		
		2	rfs celwave	APXVSP18-C-A20 w/ Mount Pipe		
		3	rfs celwave	APXVTM14-C-120 w/ Mount Pipe		
		1	tower mounts	Platform Mount [LP 602-1]		
180.0	180.0	1	Site Pro 1	Handrail Kit [#HRK 12]	13	1-5/8
		3	ericsson	KRY 112 144/1		
		3	ericsson	KRY 112 489/2		
		3	ericsson	RADIO 4449 B12/B71		
		3	rfs celwave	APXV18-206516S-C-A20 w/ Mount Pipe		

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
		3	rfs celwave	APXVAALL24_43-U-NA20_TMO		
		1	tower mounts	Platform Mount [LP 401-1]		
160.0	160.0	3	Sabre	12' Sector Mount [# C10857001C]	1	3/8 1-1/2
		3	cci antennas	DMP65R-BU8D w/ Mount Pipe		
		3	cci antennas	TPA65R-BU8D_CCIV2 w/ Mount Pipe		
		3	ericsson	AIR 6449 w/ Mount Pipe		
		3	ericsson	RADIO 4478 B14		
		3	ericsson	RRUS 4449 B5/B12		
		1	ericsson	RRUS 8843 B2/B66A		
		2	raycap	DC9-48-60-24-8C-EV		

3) ANALYSIS PROCEDURE

Table 3 - Documents Provided

Document	Reference	Source
4-GEOTECHNICAL REPORTS	2192530	CCISITES
4-TOWER FOUNDATION DRAWINGS/DESIGN/SPECS	2051620	CCISITES
4-TOWER MANUFACTURER DRAWINGS	2051615	CCISITES
4-TOWER REINFORCEMENT DESIGN/DRAWINGS/DATA	5657025	CCISITES
4-POST-MODIFICATION INSPECTION	6088222	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. Crown Castle should be notified to determine the effect on the structural integrity of the tower.

4) ANALYSIS RESULTS

Table 4 - Section Capacity (Summary)

Section No.	Elevation (ft)	Component Type	Size	Critical Element	P (K)	SF*P_allow (K)	% Capacity	Pass / Fail
L1	190 - 163.221	Pole	TP24.4525x19.5x0.1875	1	-8.72	862.97	44.6	Pass
L2	163.221 - 126.831	Pole	TP30.7144x23.4196x0.25	2	-16.27	1446.24	92.7	Pass
L3	126.831 - 86.3984	Pole	TP37.6019x29.4221x0.3125	3	-24.01	2214.00	99.2	Pass
L4	86.3984 - 42.9401	Pole	TP44.9268x36.0268x0.375	4	-35.28	3175.46	92.9	Pass
L5	42.9401 - 0	Pole	TP52x43.0584x0.4375	5	-52.16	4398.09	84.1	Pass
							Summary	
						Pole (L3)	99.2	Pass
						Rating =	99.2	Pass

Table 5 - Tower Component Stresses vs. Capacity - LC7

Notes	Component	Elevation (ft)	% Capacity	Pass / Fail
1	Anchor Rods	0	87.5	Pass
1	Base Plate	0	99.7	Pass
1	Base Foundation (Structure)	0	80.6	Pass
1	Base Foundation (Soil Interaction)	0	95.4	Pass

Structure Rating (max from all components) =	99.7%
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Notes:

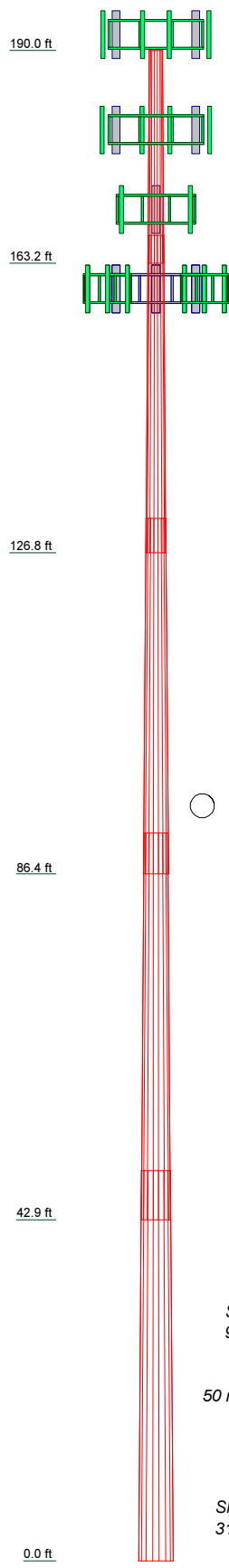
- 1) See additional documentation in "Appendix C – Additional Calculations" for calculations supporting the % capacity consumed.

4.1) Recommendations

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

APPENDIX A
TNXTOWER OUTPUT

Section	1	2	3	4	5
Length (ft)	26.78	39.95	44.77	48.66	49.05
Number of Sides	18	18	18	18	18
Thickness (in)	0.1875	0.2500	0.3125	0.3750	0.4375
Socket Length (ft)	3.56	4.34	5.20	6.11	6.11
Top Dia (in)	19.5000	23.4196	29.4221	36.0268	43.0564
Bot Dia (in)	24.4525	30.7144	37.6019	44.9268	52.0000
Grade			A572-65		
Weight (K)	1.2	2.9	5.0	7.9	10.9

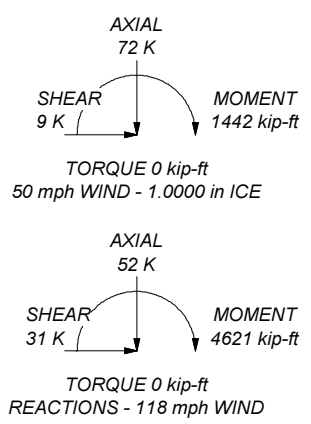


MATERIAL STRENGTH					
GRADE	Fy	Fu	GRADE	Fy	Fu
A572-65	65 ksi	80 ksi			

TOWER DESIGN NOTES

1. Tower is located in New Haven County, Connecticut.
2. Tower designed for Exposure C to the TIA-222-H Standard.
3. Tower designed for a 118 mph basic wind in accordance with the TIA-222-H Standard.
4. Tower is also designed for a 50 mph basic wind with 1.00 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60 mph wind.
6. Tower Risk Category II.
7. Topographic Category 1 with Crest Height of 0.00 ft
8. TOWER RATING: 99.2%

ALL REACTIONS ARE FACTORED



Crown Castle
 2000 Corporate Drive
 Canonsburg, PA 15317
 The Pathway to Possible Phone: 724-416-2000
 FAX:

Job: BU# 876378			
Project:	Client: Crown Castle	Drawn by: DStephens	App'd:
Code: TIA-222-H	Date: 05/24/22	Scale: NTS	Dwg No. E-1
Path: C:\SDD Processing\876378\WO 2121273 - SAIProd\876378.er			

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 New Haven County, Connecticut.
- Tower base elevation above sea level: 792.00 ft.
- Basic wind speed of 118 mph.
- Risk Category II.
- Exposure Category C.
- Simplified Topographic Factor Procedure for wind speed-up calculations is used.
- Topographic Category: 1.
- Crest Height: 0.00 ft.
- Nominal ice thickness of 1.0000 in.
- Ice thickness is considered to increase with height.
- Ice density of 56 pcf.
- A wind speed of 50 mph is used in combination with ice.
- Temperature drop of 50 °F.
- Deflections calculated using a wind speed of 60 mph.
- A non-linear (P-delta) analysis was used.
- Pressures are calculated at each section.
- Stress ratio used in pole design is 1.
- Tower analysis based on target reliabilities in accordance with Annex S.
- Load Modification Factors used: $K_{es}(F_w) = 0.95$, $K_{es}(t_i) = 0.85$.
- Maximum demand-capacity ratio is: 1.05.
- Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

Options

Consider Moments - Legs 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 <div style="text-align: center; background-color: #e0e0e0; padding: 2px;">Poles</div> ✓ 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
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Tapered Pole Section Geometry

Section	Elevation ft	Section Length ft	Splice Length ft	Number of Sides	Top Diameter in	Bottom Diameter in	Wall Thickness in	Bend Radius in	Pole Grade
L1	190.00-163.22	26.78	3.56	18	19.5000	24.4525	0.1875	0.7500	A572-65 (65 ksi)
L2	163.22-126.83	39.95	4.34	18	23.4196	30.7144	0.2500	1.0000	A572-65 (65 ksi)
L3	126.83-86.40	44.77	5.20	18	29.4221	37.6019	0.3125	1.2500	A572-65 (65 ksi)
L4	86.40-42.94	48.66	6.11	18	36.0268	44.9268	0.3750	1.5000	A572-65 (65 ksi)
L5	42.94-0.00	49.05		18	43.0584	52.0000	0.4375	1.7500	A572-65 (65 ksi)

Tapered Pole Properties

Section	Tip Dia. in	Area in ²	I in ⁴	r in	C in	I/C in ³	J in ⁴	It/Q in ²	w in	w/t
L1	19.7719	11.4934	541.5782	6.8559	9.9060	54.6717	1083.8689	5.7478	3.1020	16.544
	24.8008	14.4407	1074.2034	8.6141	12.4219	86.4768	2149.8203	7.2217	3.9736	21.193
L2	24.4019	18.3851	1246.9251	8.2252	11.8972	104.8086	2495.4910	9.1943	3.6819	14.727
	31.1497	24.1735	2834.4074	10.8149	15.6029	181.6588	5672.5443	12.0890	4.9657	19.863
L3	30.6327	28.8731	3091.0448	10.3339	14.9465	206.8079	6186.1569	14.4393	4.6283	14.811
	38.1338	36.9864	6497.5642	13.2377	19.1018	340.1552	13003.678	18.4967	6.0679	19.417
L4	37.4906	42.4345	6814.2527	12.6564	18.3016	372.3312	13637.471	21.2213	5.6807	15.149
	45.5620	53.0278	13297.543	15.8159	22.8228	582.6426	26612.583	26.5189	7.2471	19.326
L5	44.7869	59.1844	13582.829	15.1304	21.8737	620.9672	27183.531	29.5978	6.8083	15.562
	52.7347	71.6010	24050.512	18.3047	26.4160	910.4525	48132.670	35.8073	8.3820	19.159

Tower Elevation ft	Gusset Area (per face) ft ²	Gusset Thickness in	Gusset Grade	Adjust. Factor Ar	Adjust. Factor Ar	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontals in	Double Angle Stitch Bolt Spacing Redundants in
L1 190.00- 163.22				1	1	1			
L2 163.22- 126.83				1	1	1			
L3 126.83- 86.40				1	1	1			
L4 86.40- 42.94				1	1	1			
L5 42.94-0.00				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
Step Pegs	C	No	Surface Ar (CaAa)	190.00 - 12.00	1	1	-0.150 -0.050	0.7050		1.80

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
Safety Line 3/8	C	No	No	CaAa (Out Of Face)	190.00 - 12.00	1	No Ice 1/2" Ice 1" Ice	0.04 0.14 0.24	0.22 0.75 1.28

HB114-1-0813U4-M5J(1-1/4)	B	No	No	Inside Pole	190.00 - 3.00	3	No Ice 1/2" Ice 1" Ice	0.00 0.00 0.00	1.20 1.20 1.20
HB114-21U3M12-XXXF(1-1/4)	B	No	No	Inside Pole	190.00 - 3.00	1	No Ice 1/2" Ice 1" Ice	0.00 0.00 0.00	1.22 1.22 1.22

HCS 6X12 4AWG(1-5/8)	B	No	No	Inside Pole	180.00 - 10.00	1	No Ice 1/2" Ice 1" Ice	0.00 0.00 0.00	2.40 2.40 2.40
AVA7-50(1-5/8)	B	No	No	Inside Pole	180.00 - 10.00	6	No Ice 1/2" Ice 1" Ice	0.00 0.00 0.00	0.70 0.70 0.70
LDF7-50A(1-5/8)	B	No	No	Inside Pole	180.00 - 10.00	6	No Ice 1/2" Ice 1" Ice	0.00 0.00 0.00	0.82 0.82 0.82

CU12PSM6P4XXX (1-3/4)	C	No	No	Inside Pole	170.00 - 0.00	1	No Ice 1/2" Ice 1" Ice	0.00 0.00 0.00	2.72 2.72 2.72

84083575(3/8)	B	No	No	Inside Pole	160.00 - 3.00	1	No Ice 1/2" Ice 1" Ice	0.00 0.00 0.00	0.04 0.04 0.04
6 AWG(1-1/2)	B	No	No	Inside Pole	160.00 - 3.00	1	No Ice 1/2" Ice 1" Ice	0.00 0.00 0.00	0.97 0.97 0.97

Feed Line/Linear Appurtenances Section Areas

Tower Section 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	190.00-163.22	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.32
		C	0.000	0.000	1.888	1.004	0.07
L2	163.22-126.83	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.63
		C	0.000	0.000	2.566	1.365	0.17
L3	126.83-86.40	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.70
		C	0.000	0.000	2.850	1.516	0.19
L4	86.40-42.94	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.75
		C	0.000	0.000	3.064	1.630	0.21
L5	42.94-0.00	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.61
		C	0.000	0.000	2.181	1.160	0.18

Feed Line/Linear Appurtenances Section Areas - With Ice

Tower Section n	Tower Elevation ft	Face or Leg	Ice Thickness in	A _R ft ²	A _F ft ²	C _{AA} In Face ft ²	C _{AA} Out Face ft ²	Weight K
L1	190.00-163.22	A	1.005	0.000	0.000	0.000	0.000	0.00

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A _R ft ²	A _F ft ²	C _A A _A In Face ft ²	C _A A _A Out Face ft ²	Weight K
L2	163.22-126.83	B	0.985	0.000	0.000	0.000	0.000	0.32
		C		0.000	0.000	7.270	6.387	0.16
		A		0.000	0.000	0.000	0.000	0.00
L3	126.83-86.40	B	0.955	0.000	0.000	0.000	0.000	0.63
		C		0.000	0.000	9.880	8.679	0.29
		A		0.000	0.000	0.000	0.000	0.00
L4	86.40-42.94	B	0.909	0.000	0.000	0.000	0.000	0.70
		C		0.000	0.000	10.817	9.483	0.32
		A		0.000	0.000	0.000	0.000	0.00
L5	42.94-0.00	B	0.815	0.000	0.000	0.000	0.000	0.75
		C		0.000	0.000	11.367	9.933	0.33
		A		0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.61
		C		0.000	0.000	7.804	6.783	0.26

Feed Line Center of Pressure

Section	Elevation ft	CP _x in	CP _z in	CP _x Ice in	CP _z Ice in
L1	190.00-163.22	-0.1492	0.7731	-0.5953	1.5790
L2	163.22-126.83	-0.1525	0.7825	-0.6290	1.6572
L3	126.83-86.40	-0.1552	0.7900	-0.6480	1.7021
L4	86.40-42.94	-0.1572	0.7955	-0.6543	1.7182
L5	42.94-0.00	-0.1130	0.5696	-0.4665	1.2292

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	Step Pegs	163.22 - 190.00	1.0000	1.0000
L2	2	Step Pegs	126.83 - 163.22	1.0000	1.0000
L3	2	Step Pegs	86.40 - 126.83	1.0000	1.0000
L4	2	Step Pegs	42.94 - 86.40	1.0000	1.0000
L5	2	Step Pegs	12.00 - 42.94	1.0000	1.0000

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement
			Horz	Lateral		
			ft	ft	°	ft
APXVSPP18-C-A20 w/ Mount Pipe	A	From Leg	4.00	0.00	0.0000	192.00
			0.00	0.00		
APXV9ERR18-C-A20 w/ Mount Pipe	B	From Leg	4.00	0.00	0.0000	192.00
			0.00	0.00		
APXVSPP18-C-A20 w/ Mount Pipe	C	From Leg	4.00	0.00	0.0000	192.00
			0.00	0.00		
APXVTM14-C-120 w/ Mount Pipe	A	From Leg	4.00	0.00	0.0000	192.00
			0.00	0.00		
APXVTM14-C-120 w/ Mount Pipe	B	From Leg	4.00	0.00	0.0000	192.00
			0.00	0.00		
APXVTM14-C-120 w/ Mount Pipe	C	From Leg	4.00	0.00	0.0000	192.00
			0.00	0.00		
1900MHZ RRH (65MHZ)	A	From Leg	4.00	0.00	0.0000	192.00
			0.00	0.00		
1900MHZ RRH (65MHZ)	B	From Leg	4.00	0.00	0.0000	192.00
			0.00	0.00		
1900MHZ RRH (65MHZ)	C	From Leg	4.00	0.00	0.0000	192.00
			0.00	0.00		
800 EXTERNAL NOTCH FILTER	A	From Leg	4.00	0.00	0.0000	192.00
			0.00	0.00		
800 EXTERNAL NOTCH FILTER	B	From Leg	4.00	0.00	0.0000	192.00
			0.00	0.00		
800 EXTERNAL NOTCH FILTER	C	From Leg	4.00	0.00	0.0000	192.00
			0.00	0.00		
800MHZ RRH	A	From Leg	4.00	0.00	0.0000	192.00
			0.00	0.00		
800MHZ RRH	B	From Leg	4.00	0.00	0.0000	192.00
			0.00	0.00		
800MHZ RRH	C	From Leg	4.00	0.00	0.0000	192.00
			0.00	0.00		
TD-RRH8X20-25	A	From Leg	4.00	0.00	0.0000	192.00
			0.00	0.00		
TD-RRH8X20-25	B	From Leg	4.00	0.00	0.0000	192.00
			0.00	0.00		
TD-RRH8X20-25	C	From Leg	4.00	0.00	0.0000	192.00
			0.00	0.00		
(3) ACU-A20-N	A	From Leg	4.00	0.00	0.0000	192.00
			0.00	0.00		
(3) ACU-A20-N	B	From Leg	4.00	0.00	0.0000	192.00
			0.00	0.00		
(3) ACU-A20-N	C	From Leg	4.00	0.00	0.0000	192.00
			0.00	0.00		
(2) 6' x 2" Mount Pipe	A	From Leg	4.00	0.00	0.0000	192.00
			0.00	0.00		

Description	Face or Leg	Offset Type	Offsets:			Azimuth Adjustment	Placement
			Horz	Lateral	Vert		
			ft	ft	ft		
(2) 6' x 2" Mount Pipe	B	From Leg	0.00	4.00	0.0000	192.00	
			0.00	0.00			
(2) 6' x 2" Mount Pipe	C	From Leg	0.00	4.00	0.0000	192.00	
			0.00	0.00			
Platform Mount [LP 602-1] ***	A	None			0.0000	192.00	
APXV18-206516S-C-A20 w/ Mount Pipe	A	From Leg	4.00	0.00	0.0000	180.00	
			0.00	0.00			
APXV18-206516S-C-A20 w/ Mount Pipe	B	From Leg	4.00	0.00	0.0000	180.00	
			0.00	0.00			
APXV18-206516S-C-A20 w/ Mount Pipe	C	From Leg	4.00	0.00	0.0000	180.00	
			0.00	0.00			
APXVAALL24_43-U-NA20_TMO	A	From Leg	4.00	0.00	0.0000	180.00	
			0.00	0.00			
APXVAALL24_43-U-NA20_TMO	B	From Leg	4.00	0.00	0.0000	180.00	
			0.00	0.00			
APXVAALL24_43-U-NA20_TMO	C	From Leg	4.00	0.00	0.0000	180.00	
			0.00	0.00			
KRY 112 144/1	A	From Leg	4.00	0.00	0.0000	180.00	
			0.00	0.00			
KRY 112 144/1	B	From Leg	4.00	0.00	0.0000	180.00	
			0.00	0.00			
KRY 112 144/1	C	From Leg	4.00	0.00	0.0000	180.00	
			0.00	0.00			
KRY 112 489/2	A	From Leg	4.00	0.00	0.0000	180.00	
			0.00	0.00			
KRY 112 489/2	B	From Leg	4.00	0.00	0.0000	180.00	
			0.00	0.00			
KRY 112 489/2	C	From Leg	4.00	0.00	0.0000	180.00	
			0.00	0.00			
RADIO 4449 B12/B71	A	From Leg	4.00	0.00	0.0000	180.00	
			0.00	0.00			
RADIO 4449 B12/B71	B	From Leg	4.00	0.00	0.0000	180.00	
			0.00	0.00			
RADIO 4449 B12/B71	C	From Leg	4.00	0.00	0.0000	180.00	
			0.00	0.00			
Pipe Mount [P2.0 STD, 8 ft Long]	A	From Leg	4.00	0.00	0.0000	180.00	
			0.00	0.00			
Pipe Mount [P2.0 STD, 8 ft Long]	B	From Leg	4.00	0.00	0.0000	180.00	
			0.00	0.00			
Pipe Mount [P2.0 STD, 8 ft Long]	C	From Leg	4.00	0.00	0.0000	180.00	
			0.00	0.00			
Handrail Kit [#HRK 12]	B	None			0.0000	180.00	
Platform Mount [LP 401-1]	B	None			0.0000	180.00	

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft

MX08FRO665-21 w/ Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	170.00
MX08FRO665-21 w/ Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	170.00
MX08FRO665-21 w/ Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	170.00
TA08025-B604	A	From Leg	4.00 0.00 0.00	0.0000	170.00
TA08025-B604	B	From Leg	4.00 0.00 0.00	0.0000	170.00
TA08025-B604	C	From Leg	4.00 0.00 0.00	0.0000	170.00
TA08025-B605	A	From Leg	4.00 0.00 0.00	0.0000	170.00
TA08025-B605	B	From Leg	4.00 0.00 0.00	0.0000	170.00
TA08025-B605	C	From Leg	4.00 0.00 0.00	0.0000	170.00
RDIDC-9181-PF-48	A	From Leg	4.00 0.00 0.00	0.0000	170.00
(2) 8' x 2" Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	170.00
(2) 8' x 2" Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	170.00
(2) 8' x 2" Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	170.00
Commscope MC-PK8-DSH ***	C	None		0.0000	170.00
AIR 6449 w/ Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	160.00
AIR 6449 w/ Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	160.00
AIR 6449 w/ Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	160.00
TPA65R-BU8D_CCIV2 w/ Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	160.00
TPA65R-BU8D_CCIV2 w/ Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	160.00
TPA65R-BU8D_CCIV2 w/ Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	160.00
DMP65R-BU8D w/ Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	160.00
DMP65R-BU8D w/ Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	160.00

Description	Face or Leg	Offset Type	Offsets:		
			Horz	Lateral	Vert
			ft	ft	ft
				°	ft
DMP65R-BU8D w/ Mount Pipe	C	From Leg	0.00	0.0000	160.00
			4.00		
			0.00		
RADIO 4478 B14	A	From Leg	0.00	0.0000	160.00
			4.00		
			0.00		
RADIO 4478 B14	B	From Leg	0.00	0.0000	160.00
			4.00		
			0.00		
RADIO 4478 B14	C	From Leg	0.00	0.0000	160.00
			4.00		
			0.00		
RRUS 4449 B5/B12	A	From Leg	0.00	0.0000	160.00
			4.00		
			0.00		
RRUS 4449 B5/B12	B	From Leg	0.00	0.0000	160.00
			4.00		
			0.00		
RRUS 4449 B5/B12	C	From Leg	0.00	0.0000	160.00
			4.00		
			0.00		
RRUS 8843 B2/B66A	A	From Leg	0.00	0.0000	160.00
			4.00		
			0.00		
DC9-48-60-24-8C-EV	B	From Leg	0.00	0.0000	160.00
			4.00		
			0.00		
DC9-48-60-24-8C-EV	C	From Leg	0.00	0.0000	160.00
			4.00		
			0.00		
6' x 2" Mount Pipe	A	From Leg	0.00	0.0000	160.00
			4.00		
			0.00		
6' x 2" Mount Pipe	B	From Leg	0.00	0.0000	160.00
			4.00		
			0.00		
6' x 2" Mount Pipe	C	From Leg	0.00	0.0000	160.00
			4.00		
			0.00		
12' Sector Mount [# C10857001C]	A	From Leg	0.00	0.0000	160.00
			2.00		
			0.00		
12' Sector Mount [# C10857001C]	B	From Leg	0.00	0.0000	160.00
			2.00		
			0.00		
12' Sector Mount [# C10857001C]	C	From Leg	0.00	0.0000	160.00
			2.00		
			0.00		
			0.00		

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	190 - 163.221	Pole	Max Tension	1	0.00	0.00	0.00			
			Max. Compression	26	-19.69	0.02	0.23			
			Max. Mx	20	-8.74	211.88	0.03			
			Max. My	2	-8.72	0.00	212.12			
			Max. Vy	20	-14.79	211.88	0.03			
			Max. Vx	2	-14.84	0.00	212.12			
			Max. Torque	9			0.22			
			Max Tension	1	0.00	0.00	0.00			
			L2	163.221 - 126.831	Pole	Max. Compression	26	-32.90	0.07	0.27
						Max. Mx	20	-16.28	959.91	0.20
Max. My	2	-16.27				0.01	962.18			
Max. Vy	20	-23.39				959.91	0.20			
Max. Vx	2	-23.44				0.01	962.18			

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L3	126.831 - 86.3984	Pole	Max. Torque	9			0.22
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-41.51	0.13	-0.00
			Max. Mx	20	-24.02	1942.66	0.09
			Max. My	2	-24.01	0.03	1946.99
			Max. Vy	20	-26.19	1942.66	0.09
			Max. Vx	14	26.25	0.03	-1946.80
L4	86.3984 - 42.9401	Pole	Max. Torque	38			0.22
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-53.93	0.21	-0.35
			Max. Mx	20	-35.28	3121.20	-0.08
			Max. My	14	-35.28	0.04	-3127.84
			Max. Vy	20	-29.06	3121.20	-0.08
			Max. Vx	14	29.11	0.04	-3127.84
L5	42.9401 - 0	Pole	Max. Torque	38			0.33
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-72.25	0.29	-0.68
			Max. Mx	20	-52.16	4612.12	-0.24
			Max. My	14	-52.16	0.06	-4621.49
			Max. Vy	20	-31.41	4612.12	-0.24
			Max. Vx	14	31.46	0.06	-4621.49
		Max. Torque	38			0.43	

Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Pole	Max. Vert	33	72.25	-0.00	-9.49
	Max. H _x	20	52.19	31.35	0.00
	Max. H _z	2	52.19	0.00	31.40
	Max. M _x	2	4621.01	0.00	31.40
	Max. M _z	8	4611.99	-31.35	0.00
	Max. Torsion	38	0.43	4.74	8.22
	Min. Vert	5	39.14	-15.68	27.20
	Min. H _x	8	52.19	-31.35	0.00
	Min. H _z	14	52.19	0.00	-31.40
	Min. M _x	14	-4621.49	0.00	-31.40
	Min. M _z	20	-4612.12	31.35	0.00
	Min. Torsion	32	-0.43	-4.74	-8.22

Tower Mast Reaction Summary

Load Combination	Vertical K	Shear _x K	Shear _z K	Overturing Moment, M _x kip-ft	Overturing Moment, M _z kip-ft	Torque kip-ft
Dead Only	43.49	0.00	0.00	0.20	0.05	0.00
1.2 Dead+1.0 Wind 0 deg - No Ice	52.19	-0.00	-31.40	-4621.01	0.06	-0.33
0.9 Dead+1.0 Wind 0 deg - No Ice	39.14	-0.00	-31.40	-4507.68	0.04	-0.33
1.2 Dead+1.0 Wind 30 deg - No Ice	52.19	15.68	-27.20	-4001.95	-2305.94	-0.30
0.9 Dead+1.0 Wind 30 deg - No Ice	39.14	15.68	-27.20	-3903.77	-2249.36	-0.30
1.2 Dead+1.0 Wind 60 deg - No Ice	52.19	27.15	-15.70	-2310.46	-3994.11	-0.18
0.9 Dead+1.0 Wind 60 deg - No Ice	39.14	27.15	-15.70	-2253.80	-3896.09	-0.19

Load Combination	Vertical K	Shear _x K	Shear _z K	Overturning Moment, M _x kip-ft	Overturning Moment, M _z kip-ft	Torque kip-ft
1.2 Dead+1.0 Wind 90 deg - No Ice	52.19	31.35	0.00	0.24	-4611.99	-0.02
0.9 Dead+1.0 Wind 90 deg - No Ice	39.14	31.35	0.00	0.19	-4498.84	-0.03
1.2 Dead+1.0 Wind 120 deg - No Ice	52.19	27.15	15.70	2310.94	-3994.10	0.14
0.9 Dead+1.0 Wind 120 deg - No Ice	39.14	27.15	15.70	2254.16	-3896.09	0.14
1.2 Dead+1.0 Wind 150 deg - No Ice	52.19	15.68	27.20	4002.43	-2305.94	0.27
0.9 Dead+1.0 Wind 150 deg - No Ice	39.14	15.68	27.20	3904.14	-2249.36	0.27
1.2 Dead+1.0 Wind 180 deg - No Ice	52.19	-0.00	31.40	4621.49	0.06	0.33
0.9 Dead+1.0 Wind 180 deg - No Ice	39.14	-0.00	31.40	4508.04	0.04	0.33
1.2 Dead+1.0 Wind 210 deg - No Ice	52.19	-15.68	27.20	4002.44	2306.05	0.30
0.9 Dead+1.0 Wind 210 deg - No Ice	39.14	-15.68	27.20	3904.14	2249.44	0.30
1.2 Dead+1.0 Wind 240 deg - No Ice	52.19	-27.15	15.70	2310.95	3994.23	0.19
0.9 Dead+1.0 Wind 240 deg - No Ice	39.14	-27.15	15.70	2254.17	3896.18	0.19
1.2 Dead+1.0 Wind 270 deg - No Ice	52.19	-31.35	0.00	0.24	4612.12	0.02
0.9 Dead+1.0 Wind 270 deg - No Ice	39.14	-31.35	0.00	0.19	4498.94	0.03
1.2 Dead+1.0 Wind 300 deg - No Ice	52.19	-27.15	-15.70	-2310.46	3994.23	-0.15
0.9 Dead+1.0 Wind 300 deg - No Ice	39.14	-27.15	-15.70	-2253.80	3896.18	-0.15
1.2 Dead+1.0 Wind 330 deg - No Ice	52.19	-15.68	-27.20	-4001.96	2306.06	-0.28
0.9 Dead+1.0 Wind 330 deg - No Ice	39.14	-15.68	-27.20	-3903.78	2249.45	-0.28
1.2 Dead+1.0 Ice+1.0 Temp	72.25	0.00	0.00	0.68	0.29	0.00
1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp	72.25	-0.00	-9.49	-1440.23	0.38	-0.38
1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp	72.25	4.74	-8.22	-1247.21	-719.17	-0.23
1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp	72.25	8.21	-4.75	-719.76	-1245.92	-0.02
1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp	72.25	9.48	0.00	0.74	-1438.69	0.20
1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp	72.25	8.21	4.75	721.23	-1245.97	0.36
1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp	72.25	4.74	8.22	1248.65	-719.24	0.43
1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp	72.25	0.00	9.49	1441.62	0.30	0.38
1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp	72.25	-4.74	8.22	1248.61	719.85	0.23
1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp	72.25	-8.21	4.75	721.16	1246.61	0.02
1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp	72.25	-9.48	-0.00	0.65	1439.37	-0.20
1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp	72.25	-8.21	-4.75	-719.84	1246.65	-0.36
1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp	72.25	-4.74	-8.22	-1247.26	719.92	-0.43
Dead+Wind 0 deg - Service	43.49	0.00	-7.65	-1114.25	0.05	-0.08
Dead+Wind 30 deg - Service	43.49	3.82	-6.63	-964.95	-556.05	-0.07
Dead+Wind 60 deg - Service	43.49	6.61	-3.83	-557.03	-963.15	-0.04
Dead+Wind 90 deg - Service	43.49	7.64	0.00	0.20	-1112.15	0.00
Dead+Wind 120 deg - Service	43.49	6.61	3.83	557.42	-963.15	0.04
Dead+Wind 150 deg - Service	43.49	3.82	6.63	965.34	-556.05	0.07

Load Combination	Vertical	Shear _x	Shear _z	Overturning Moment, M _x	Overturning Moment, M _z	Torque
	K	K	K	kip-ft	kip-ft	kip-ft
Dead+Wind 180 deg - Service	43.49	0.00	7.65	1114.64	0.05	0.08
Dead+Wind 210 deg - Service	43.49	-3.82	6.63	965.34	556.16	0.07
Dead+Wind 240 deg - Service	43.49	-6.61	3.83	557.42	963.25	0.04
Dead+Wind 270 deg - Service	43.49	-7.64	0.00	0.20	1112.25	-0.00
Dead+Wind 300 deg - Service	43.49	-6.61	-3.83	-557.03	963.25	-0.04
Dead+Wind 330 deg - Service	43.49	-3.82	-6.63	-964.95	556.16	-0.07

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	-43.49	0.00	0.00	43.49	0.00	0.000%
2	0.00	-52.19	-31.40	0.00	52.19	31.40	0.000%
3	0.00	-39.14	-31.40	0.00	39.14	31.40	0.000%
4	15.68	-52.19	-27.20	-15.68	52.19	27.20	0.000%
5	15.68	-39.14	-27.20	-15.68	39.14	27.20	0.000%
6	27.15	-52.19	-15.70	-27.15	52.19	15.70	0.000%
7	27.15	-39.14	-15.70	-27.15	39.14	15.70	0.000%
8	31.35	-52.19	0.00	-31.35	52.19	0.00	0.000%
9	31.35	-39.14	0.00	-31.35	39.14	0.00	0.000%
10	27.15	-52.19	15.70	-27.15	52.19	-15.70	0.000%
11	27.15	-39.14	15.70	-27.15	39.14	-15.70	0.000%
12	15.68	-52.19	27.20	-15.68	52.19	-27.20	0.000%
13	15.68	-39.14	27.20	-15.68	39.14	-27.20	0.000%
14	0.00	-52.19	31.40	0.00	52.19	-31.40	0.000%
15	0.00	-39.14	31.40	0.00	39.14	-31.40	0.000%
16	-15.68	-52.19	27.20	15.68	52.19	-27.20	0.000%
17	-15.68	-39.14	27.20	15.68	39.14	-27.20	0.000%
18	-27.15	-52.19	15.70	27.15	52.19	-15.70	0.000%
19	-27.15	-39.14	15.70	27.15	39.14	-15.70	0.000%
20	-31.35	-52.19	0.00	31.35	52.19	0.00	0.000%
21	-31.35	-39.14	0.00	31.35	39.14	0.00	0.000%
22	-27.15	-52.19	-15.70	27.15	52.19	15.70	0.000%
23	-27.15	-39.14	-15.70	27.15	39.14	15.70	0.000%
24	-15.68	-52.19	-27.20	15.68	52.19	27.20	0.000%
25	-15.68	-39.14	-27.20	15.68	39.14	27.20	0.000%
26	0.00	-72.25	0.00	0.00	72.25	0.00	0.000%
27	-0.00	-72.25	-9.49	0.00	72.25	9.49	0.000%
28	4.74	-72.25	-8.22	-4.74	72.25	8.22	0.000%
29	8.21	-72.25	-4.75	-8.21	72.25	4.75	0.000%
30	9.48	-72.25	0.00	-9.48	72.25	-0.00	0.000%
31	8.21	-72.25	4.75	-8.21	72.25	-4.75	0.000%
32	4.74	-72.25	8.22	-4.74	72.25	-8.22	0.000%
33	0.00	-72.25	9.49	-0.00	72.25	-9.49	0.000%
34	-4.74	-72.25	8.22	4.74	72.25	-8.22	0.000%
35	-8.21	-72.25	4.75	8.21	72.25	-4.75	0.000%
36	-9.48	-72.25	-0.00	9.48	72.25	0.00	0.000%
37	-8.21	-72.25	-4.75	8.21	72.25	4.75	0.000%
38	-4.74	-72.25	-8.22	4.74	72.25	8.22	0.000%
39	0.00	-43.49	-7.65	0.00	43.49	7.65	0.000%
40	3.82	-43.49	-6.63	-3.82	43.49	6.63	0.000%
41	6.61	-43.49	-3.83	-6.61	43.49	3.83	0.000%
42	7.64	-43.49	0.00	-7.64	43.49	0.00	0.000%
43	6.61	-43.49	3.83	-6.61	43.49	-3.83	0.000%
44	3.82	-43.49	6.63	-3.82	43.49	-6.63	0.000%
45	0.00	-43.49	7.65	0.00	43.49	-7.65	0.000%
46	-3.82	-43.49	6.63	3.82	43.49	-6.63	0.000%
47	-6.61	-43.49	3.83	6.61	43.49	-3.83	0.000%
48	-7.64	-43.49	0.00	7.64	43.49	0.00	0.000%

Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX K	PY K	PZ K	PX K	PY K	PZ K	
49	-6.61	-43.49	-3.83	6.61	43.49	3.83	0.000%
50	-3.82	-43.49	-6.63	3.82	43.49	6.63	0.000%

Non-Linear Convergence Results

Load Combination	Converged?	Number of Cycles	Displacement Tolerance	Force Tolerance
1	Yes	4	0.00000001	0.00000001
2	Yes	5	0.00001227	0.00029796
3	Yes	5	0.00000001	0.00007757
4	Yes	7	0.00000001	0.00078222
5	Yes	7	0.00000001	0.00015183
6	Yes	7	0.00000001	0.00078538
7	Yes	7	0.00000001	0.00015265
8	Yes	5	0.00001232	0.00030994
9	Yes	5	0.00000001	0.00008652
10	Yes	7	0.00000001	0.00078329
11	Yes	7	0.00000001	0.00015209
12	Yes	7	0.00000001	0.00078364
13	Yes	7	0.00000001	0.00015220
14	Yes	5	0.00001228	0.00029811
15	Yes	5	0.00000001	0.00007760
16	Yes	7	0.00000001	0.00078586
17	Yes	7	0.00000001	0.00015279
18	Yes	7	0.00000001	0.00078203
19	Yes	7	0.00000001	0.00015176
20	Yes	5	0.00001232	0.00030993
21	Yes	5	0.00000001	0.00008652
22	Yes	7	0.00000001	0.00078412
23	Yes	7	0.00000001	0.00015231
24	Yes	7	0.00000001	0.00078443
25	Yes	7	0.00000001	0.00015241
26	Yes	4	0.00000001	0.00000001
27	Yes	6	0.00006206	0.00086032
28	Yes	7	0.00000001	0.00076797
29	Yes	7	0.00000001	0.00077084
30	Yes	6	0.00006206	0.00085767
31	Yes	7	0.00000001	0.00077401
32	Yes	7	0.00000001	0.00076572
33	Yes	6	0.00006205	0.00086029
34	Yes	7	0.00000001	0.00077392
35	Yes	7	0.00000001	0.00077029
36	Yes	6	0.00006206	0.00085811
37	Yes	7	0.00000001	0.00076746
38	Yes	7	0.00000001	0.00077652
39	Yes	5	0.00000001	0.00003859
40	Yes	6	0.00000001	0.00019465
41	Yes	6	0.00000001	0.00019596
42	Yes	5	0.00000001	0.00003829
43	Yes	6	0.00000001	0.00019487
44	Yes	6	0.00000001	0.00019493
45	Yes	5	0.00000001	0.00003858
46	Yes	6	0.00000001	0.00019601
47	Yes	6	0.00000001	0.00019433
48	Yes	5	0.00000001	0.00003829
49	Yes	6	0.00000001	0.00019542
50	Yes	6	0.00000001	0.00019572

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	190 - 163.221	62.543	39	3.1011	0.0005
L2	166.779 - 126.831	47.765	39	2.9266	0.0005
L3	131.169 - 86.3984	28.122	45	2.2422	0.0003
L4	91.599 - 42.9401	12.836	45	1.4048	0.0002
L5	49.0547 - 0	3.505	45	0.6636	0.0001

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
192.00	APXVSP18-C-A20 w/ Mount Pipe	39	62.543	3.1011	0.0006	19723
180.00	APXV18-206516S-C-A20 w/ Mount Pipe	39	56.089	3.0451	0.0005	9861
170.00	MX08FRO665-21 w/ Mount Pipe	39	49.758	2.9630	0.0005	4934
160.00	AIR 6449 w/ Mount Pipe	39	43.668	2.8307	0.0004	3728

Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	190 - 163.221	258.508	2	12.8666	0.0024
L2	166.779 - 126.831	197.651	2	12.1463	0.0023
L3	131.169 - 86.3984	116.570	14	9.3127	0.0013
L4	91.599 - 42.9401	53.260	14	5.8357	0.0008
L5	49.0547 - 0	14.544	14	2.7548	0.0004

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
192.00	APXVSP18-C-A20 w/ Mount Pipe	2	258.508	12.8666	0.0026	5226
180.00	APXV18-206516S-C-A20 w/ Mount Pipe	2	231.940	12.6360	0.0025	2610
170.00	MX08FRO665-21 w/ Mount Pipe	2	205.864	12.2966	0.0023	1301
160.00	AIR 6449 w/ Mount Pipe	2	180.763	11.7495	0.0021	974

Compression Checks

Pole Design Data

Section No.	Elevation ft	Size	L ft	L _u ft	KI/r	A in ²	P _u K	φP _n K	Ratio P _u φP _n
L1	190 - 163.221 (1)	TP24.4525x19.5x0.1875	26.78	0.00	0.0	14.049	-8.72	821.88	0.011
L2	163.221 - 126.831 (2)	TP30.7144x23.4196x0.25	39.95	0.00	0.0	23.544	-16.27	1377.37	0.012
L3	126.831 - 86.3984 (3)	TP37.6019x29.4221x0.31 25	44.77	0.00	0.0	36.044	-24.01	2108.57	0.011
L4	86.3984 - 42.9401 (4)	TP44.9268x36.0268x0.37 5	48.66	0.00	0.0	51.696	-35.28	3024.25	0.012
L5	42.9401 - 0 (5)	TP52x43.0584x0.4375	49.05	0.00	0.0	71.601	-52.16	4188.66	0.012

Pole Bending Design Data

Section No.	Elevation ft	Size	M _{ux} kip-ft	φM _{nx} kip-ft	Ratio M _{ux} φM _{nx}	M _{uy} kip-ft	φM _{ny} kip-ft	Ratio M _{uy} φM _{ny}
L1	190 - 163.221 (1)	TP24.4525x19.5x0.1875	212.12	467.47	0.454	0.00	467.47	0.000
L2	163.221 - 126.831 (2)	TP30.7144x23.4196x0.25	962.18	1003.53	0.959	0.00	1003.53	0.000
L3	126.831 - 86.3984 (3)	TP37.6019x29.4221x0.31 25	1946.99	1893.18	1.028	0.00	1893.18	0.000
L4	86.3984 - 42.9401 (4)	TP44.9268x36.0268x0.37 5	3127.84	3249.27	0.963	0.00	3249.27	0.000
L5	42.9401 - 0 (5)	TP52x43.0584x0.4375	4621.49	5314.63	0.870	0.00	5314.63	0.000

Pole Shear Design Data

Section No.	Elevation ft	Size	Actual V _u K	φV _n K	Ratio V _u φV _n	Actual T _u kip-ft	φT _n kip-ft	Ratio T _u φT _n
L1	190 - 163.221 (1)	TP24.4525x19.5x0.1875	14.84	246.56	0.060	0.03	509.74	0.000
L2	163.221 - 126.831 (2)	TP30.7144x23.4196x0.25	23.44	413.21	0.057	0.09	1073.75	0.000
L3	126.831 - 86.3984 (3)	TP37.6019x29.4221x0.31 25	26.25	632.57	0.041	0.17	2013.10	0.000
L4	86.3984 - 42.9401 (4)	TP44.9268x36.0268x0.37 5	29.11	907.27	0.032	0.26	3450.98	0.000
L5	42.9401 - 0 (5)	TP52x43.0584x0.4375	31.46	1256.60	0.025	0.33	5674.27	0.000

Pole Interaction Design Data

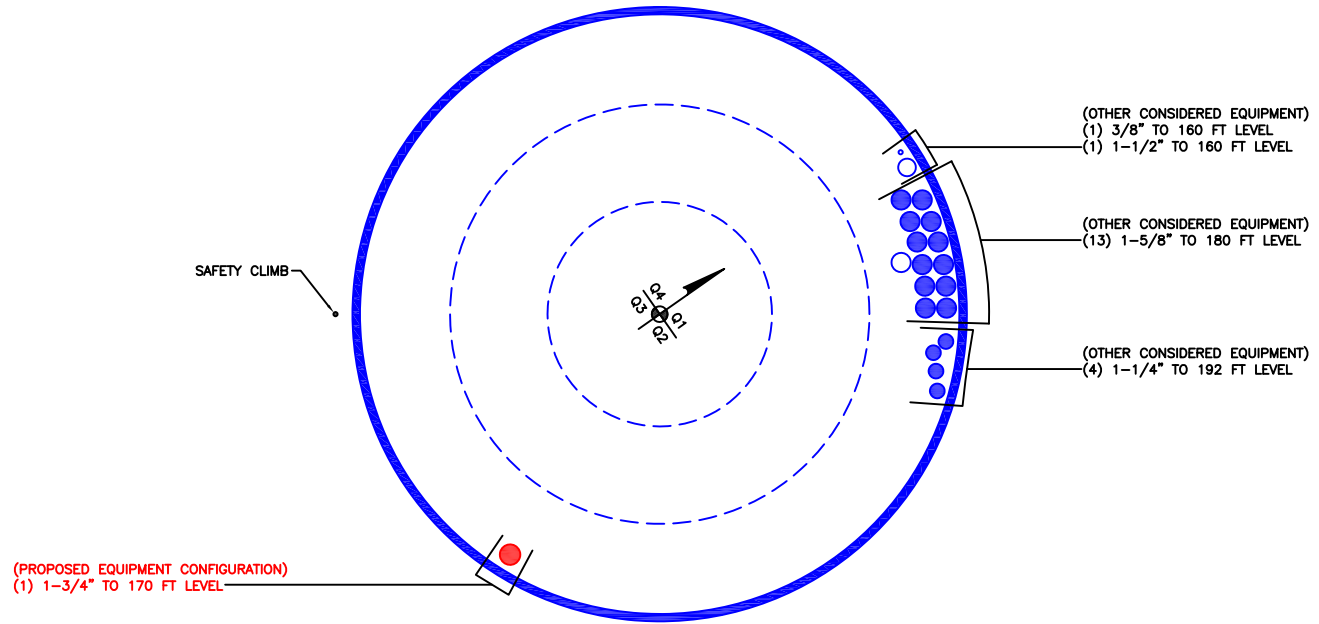
Section No.	Elevation ft	Ratio P _u φP _n	Ratio M _{ux} φM _{nx}	Ratio M _{uy} φM _{ny}	Ratio V _u φV _n	Ratio T _u φT _n	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
L1	190 - 163.221 (1)	0.011	0.454	0.000	0.060	0.000	0.468	1.050	4.8.2
L2	163.221 - 126.831 (2)	0.012	0.959	0.000	0.057	0.000	0.974	1.050	4.8.2
L3	126.831 - 86.3984 (3)	0.011	1.028	0.000	0.041	0.000	1.042	1.050	4.8.2
L4	86.3984 -	0.012	0.963	0.000	0.032	0.000	0.975	1.050	4.8.2

Section No.	Elevation ft	Ratio	Ratio	Ratio	Ratio	Ratio	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
		P_u	M_{ux}	M_{uy}	V_u	T_u			
L5	42.9401 (4) 42.9401 - 0 (5)	0.012	0.870	0.000	0.025	0.000	0.883	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	190 - 163.221	Pole	TP24.4525x19.5x0.1875	1	-8.72	862.97	44.6	Pass	
L2	163.221 - 126.831	Pole	TP30.7144x23.4196x0.25	2	-16.27	1446.24	92.7	Pass	
L3	126.831 - 86.3984	Pole	TP37.6019x29.4221x0.3125	3	-24.01	2214.00	99.2	Pass	
L4	86.3984 - 42.9401	Pole	TP44.9268x36.0268x0.375	4	-35.28	3175.46	92.9	Pass	
L5	42.9401 - 0	Pole	TP52x43.0584x0.4375	5	-52.16	4398.09	84.1	Pass	
							Summary		
							Pole (L3)	99.2	Pass
							RATING =	99.2	Pass

APPENDIX B
BASE LEVEL DRAWING



APPENDIX C
ADDITIONAL CALCULATIONS

Monopole Base Plate Connection

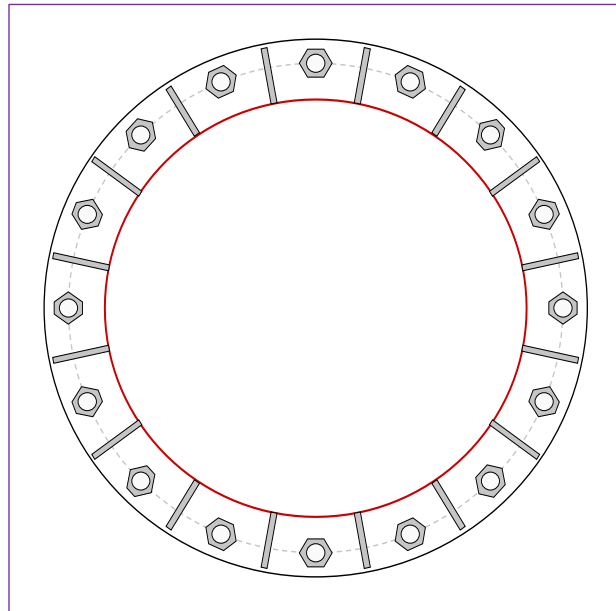


Site Info	
BU #	876378
Site Name	BETHANY / DAVID KLUD
Order #	553369 - Rev. 3

Analysis Considerations	
TIA-222 Revision	H
Grout Considered:	No
I_{ar} (in)	0.375

Applied Loads	
Moment (kip-ft)	4621.49
Axial Force (kips)	52.16
Shear Force (kips)	31.46

*TIA-222-H Section 15.5 Applied



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

Anchor Rod Data
 (16) 2-1/4" ϕ bolts (A615-75 N; $F_y=75$ ksi, $F_u=100$ ksi) on 61" BC

Base Plate Data
 67" OD x 2" Plate (A871-GR60; $F_y=60$ ksi, $F_u=75$ ksi)

Stiffener Data
 (16) 21"H x 7"W x 0.75"T, Notch: 0.75"
 plate: $F_y= 50$ ksi ; weld: $F_y= 80$ ksi
 horiz. weld: 0.3375" groove, 45° dbl bevel, 0.4375" fillet
 vert. weld: 0.3125" fillet

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

Anchor Rod Summary		<i>(units of kips, kip-in)</i>
$Pu_t = 223.9$	$\phi Pn_t = 243.75$	Stress Rating
$Vu = 1.97$	$\phi Vn = 149.1$	87.5%
$Mu = n/a$	$\phi Mn = n/a$	Pass

Base Plate Summary	
Max Stress (ksi):	38.42 (Roark's Flexural)
Allowable Stress (ksi):	54
Stress Rating:	67.8% Pass

Stiffener Summary	
Horizontal Weld:	99.7% Pass
Vertical Weld:	45.7% Pass
Plate Flexure+Shear:	18.7% Pass
Plate Tension+Shear:	68.4% Pass
Plate Compression:	69.7% Pass

Pole Summary	
Punching Shear:	10.0% Pass

Pier and Pad Foundation



BU # : 876378
Site Name: N. BETHANY / DA
App. Number: 553369 Rev. 3

TIA-222 Revision: H
Tower Type: Monopole

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

Superstructure Analysis Reactions		
Compression, P_{comp} :	52.19	kips
Base Shear, V_{u_comp} :	31.4	kips
Moment, M_u :	4621.49	ft-kips
Tower Height, H :	190	ft
BP Dist. Above Fdn, bp_{dist} :	2.625	in

Foundation Analysis Checks				
	Capacity	Demand	Rating*	Check
<i>Lateral (Sliding) (kips)</i>	156.46	31.40	19.1%	Pass
<i>Bearing Pressure (ksf)</i>	11.25	8.17	72.6%	Pass
<i>Overturning (kip*ft)</i>	5049.03	4816.76	95.4%	Pass
<i>Pier Flexure (Comp.) (kip*ft)</i>	5899.28	4731.39	76.4%	Pass
<i>Pier Compression (kip)</i>	31187.52	83.06	0.3%	Pass
<i>Pad Flexure (kip*ft)</i>	3491.24	2786.08	76.0%	Pass
<i>Pad Shear - 1-way (kips)</i>	711.23	341.75	45.8%	Pass
<i>Pad Shear - 2-way (Comp) (ksi)</i>	0.190	0.000	0.0%	Pass
<i>Flexural 2-way (Comp) (kip*ft)</i>	3352.71	2838.83	80.6%	Pass

Pier Properties		
Pier Shape:	Square	
Pier Diameter, $dpier$:	7	ft
Ext. Above Grade, E :	1	ft
Pier Rebar Size, Sc :	8	
Pier Rebar Quantity, mc :	46	
Pier Tie/Spiral Size, St :	4	
Pier Tie/Spiral Quantity, mt :	4	
Pier Reinforcement Type:	Tie	
Pier Clear Cover, cc_{pier} :	3	in

*Rating per TIA-222-H Section 15.5

Structural Rating*:	80.6%
Soil Rating*:	95.4%

Pad Properties		
Depth, D :	5	ft
Pad Width, W_1 :	24.5	ft
Pad Thickness, T :	2.5	ft
Pad Rebar Size (Top dir. 2), Sp_{top2} :	8	
Pad Rebar Quantity (Top dir. 2), mp_{top2} :	25	
Pad Rebar Size (Bottom dir. 2), Sp_2 :	8	
Pad Rebar Quantity (Bottom dir. 2), mp_2 :	40	
Pad Clear Cover, cc_{pad} :	3	in

Material Properties		
Rebar Grade, Fy :	60	ksi
Concrete Compressive Strength, $F'c$:	4	ksi
Dry Concrete Density, δc :	150	pcf

Soil Properties		
Total Soil Unit Weight, γ :	122	pcf
Ultimate Gross Bearing, Q_{ult} :	15.000	ksf
Cohesion, C_u :	0.000	ksf
Friction Angle, ϕ :	39	degrees
SPT Blow Count, N_{blows} :	46	
Base Friction, μ :	0.3	
Neglected Depth, N :	3.50	ft
Foundation Bearing on Rock?	No	
Groundwater Depth, gw :	N/A	ft

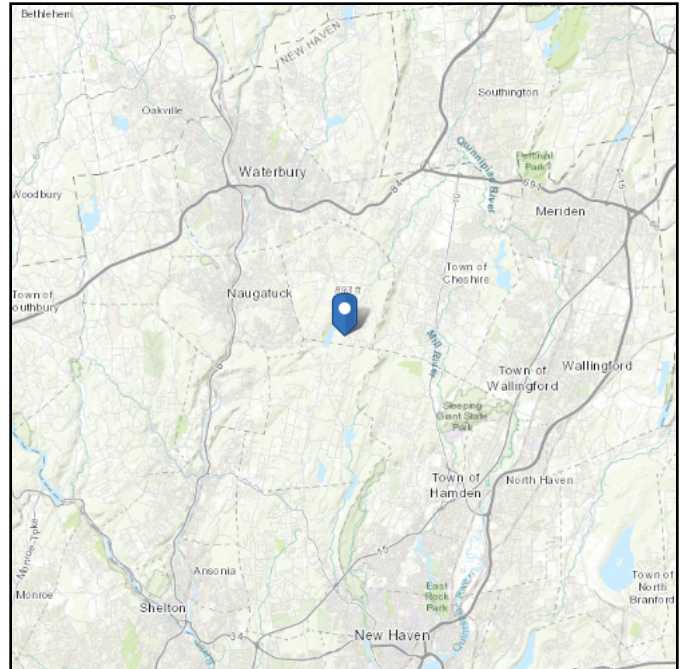
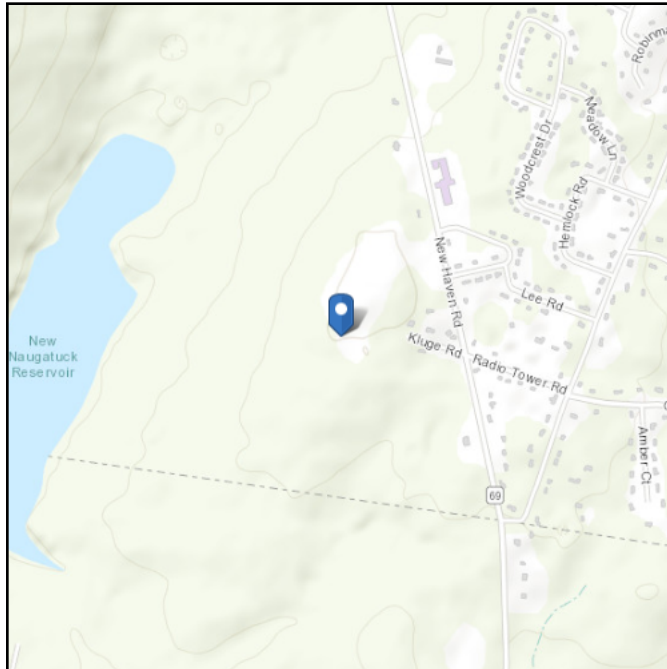
--Toggle between Gross and Net

ASCE 7 Hazards Report

Address:
No Address at This Location

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

Elevation: 791.71 ft (NAVD 88)
Latitude: 41.471217
Longitude: -72.971908



Wind

Results:

Wind Speed	118 Vmph
10-year MRI	75 Vmph
25-year MRI	84 Vmph
50-year MRI	90 Vmph
100-year MRI	97 Vmph

Data Source: ASCE/SEI 7-16, Fig. 26.5-1B and Figs. CC.2-1–CC.2-4, and Section 26.5.2
Date Accessed: Tue May 24 2022

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

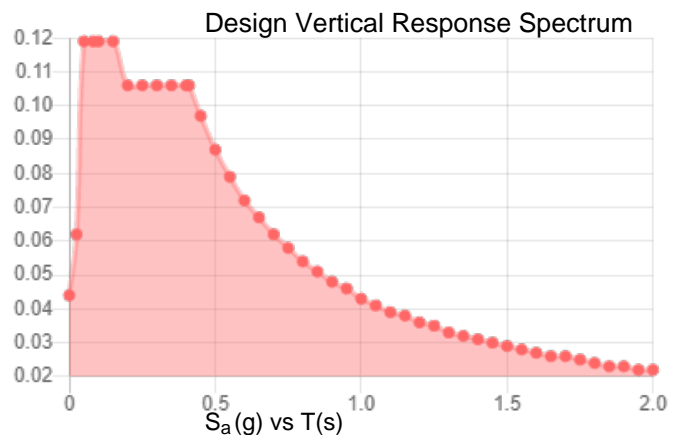
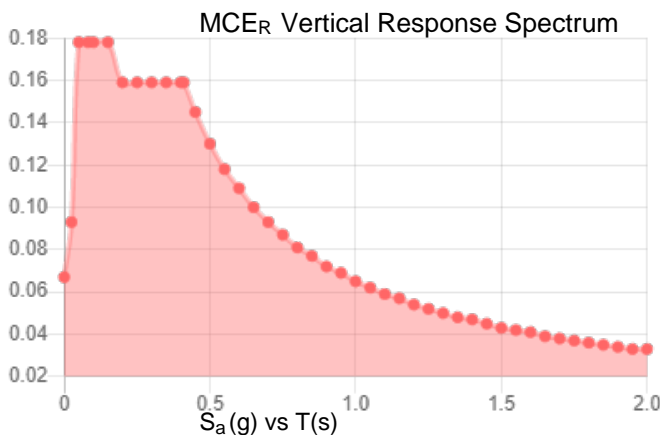
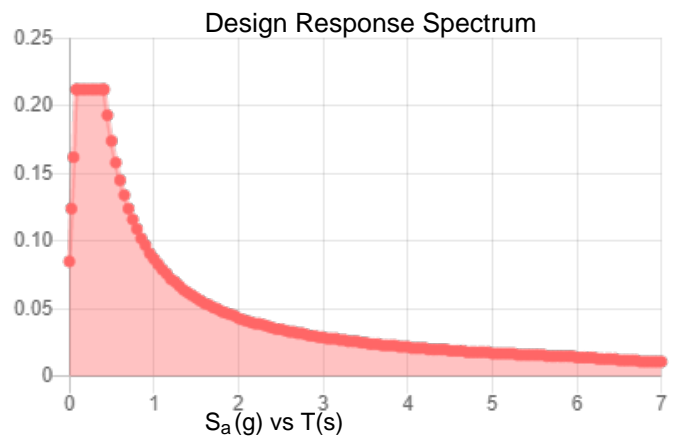
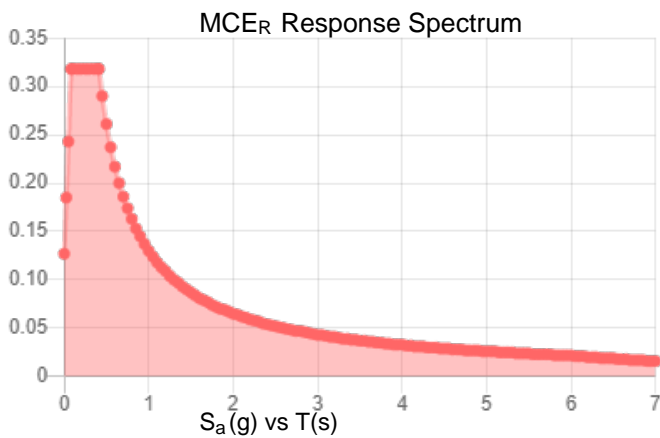
Site is in a hurricane-prone region as defined in ASCE/SEI 7-16 Section 26.2. Glazed openings need not be protected against wind-borne debris.

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

Results:

S_s :	0.199	S_{D1} :	0.087
S_1 :	0.054	T_L :	6
F_a :	1.6	PGA :	0.11
F_v :	2.4	PGA _M :	0.174
S_{MS} :	0.318	F_{PGA} :	1.579
S_{M1} :	0.13	I_e :	1
S_{DS} :	0.212	C_v :	0.7

Seismic Design Category B



Data Accessed: Tue May 24 2022

Date Source:

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

Ice

Results:

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

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

Date Accessed: Tue May 24 2022

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

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

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 3, 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: **BOHVN00029A**
Carrier Site Name: **CT-CCI-T-876378**

Crown Castle Designation: **Crown Castle BU Number:** **876378**
Crown Castle Site Name: **N. BETHANY / DAVID KLUDGE**
Crown Castle JDE Job Number: **645192**
Crown Castle Order Number: **553369 Rev. 3**

Engineering Firm Designation: **POD Report Designation:** **21-113672**

Site Data: **15 Kludge Road, Prospect, New Haven County, CT 06712**
Latitude 41°28'16.38" Longitude -72°58'18.87"

Structure Information: **Tower Height & Type:** **190 ft Monopole**
Mount Elevation: **170 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 122 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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- 1) **INTRODUCTION**
- 2) **ANALYSIS CRITERIA**
 - Table 1 – Proposed Equipment Configuration
- 3) **ANALYSIS PROCEDURE**
 - Table 2 – Documents Provided
 - 3.1) Analysis Method
 - 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 170 ft elevation on the 190 ft Monopole.

2) ANALYSIS CRITERIA

Building Code:	2015 IBC
TIA-222 Revision:	TIA-222-H
Risk Category:	II
Ultimate Wind Speed:	122 mph
Exposure Category:	C
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:	0.188
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
170	170	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 #: 553369 Rev. 3 Dated: 4/28/2021	Crown Castle
Structural Analysis	-	Crown Castle Report #: 1966191 Dated: 10/22/2021	Crown Castle
Proposed Base Levels Drawings	-	Crown Castle Sheet #: A1-170 Dated: 10/26/2021	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. Channel ASTM A1011 (GR 36)
 - b. Angle, 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	170	5.5	Pass	
	Rail	RAIL		7.9	Pass	
	Standoff	SO		24.3	Pass	
	Corner	CR		21.3	Pass	
	Plate	PLATE		43.2	Pass	
	Mount Pipe	MP		7.9	Pass	
	Rail Connection	RAIL CON		10.4	Pass	
	Grating Support	GRAT SUP		19.7	Pass	
	Standoff Flange Plate Bolts	-		-	2.6	Pass
	Standoff Flange Plate	-		-	24.6	Pass

Structure Rating (max from all components) =	43.2%
---	--------------

Notes:

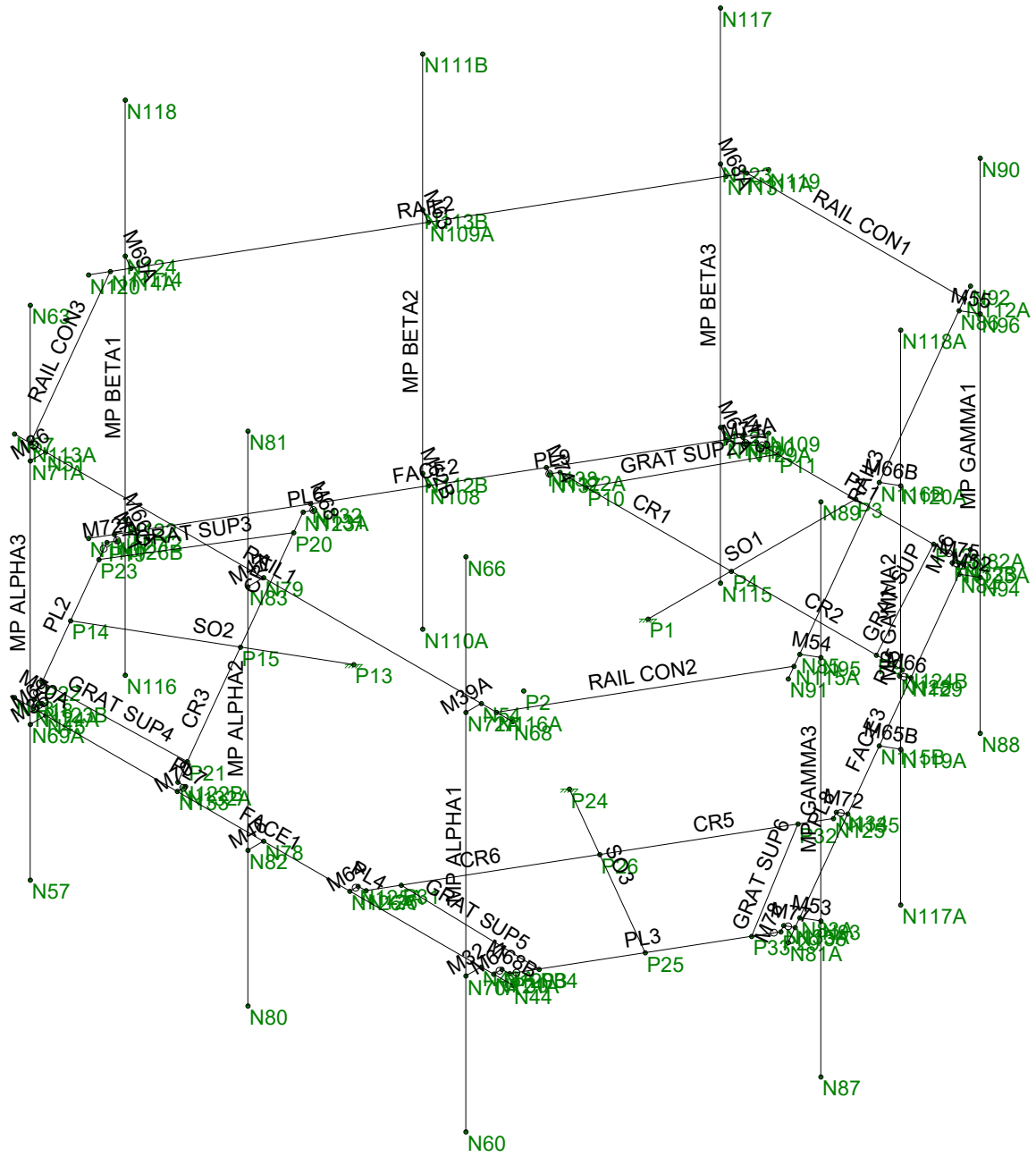
- 1) See additional documentation in "Appendix C – Software Analysis Output" and "Appendix D – Additional Calculations" for calculations supporting the % capacity

4.1) Recommendations

The proposed mount Commscope MC-PK8-DSH installed at 170' elevation per manufacturer specifications has sufficient capacity to carry the proposed loading configuration.

APPENDIX A

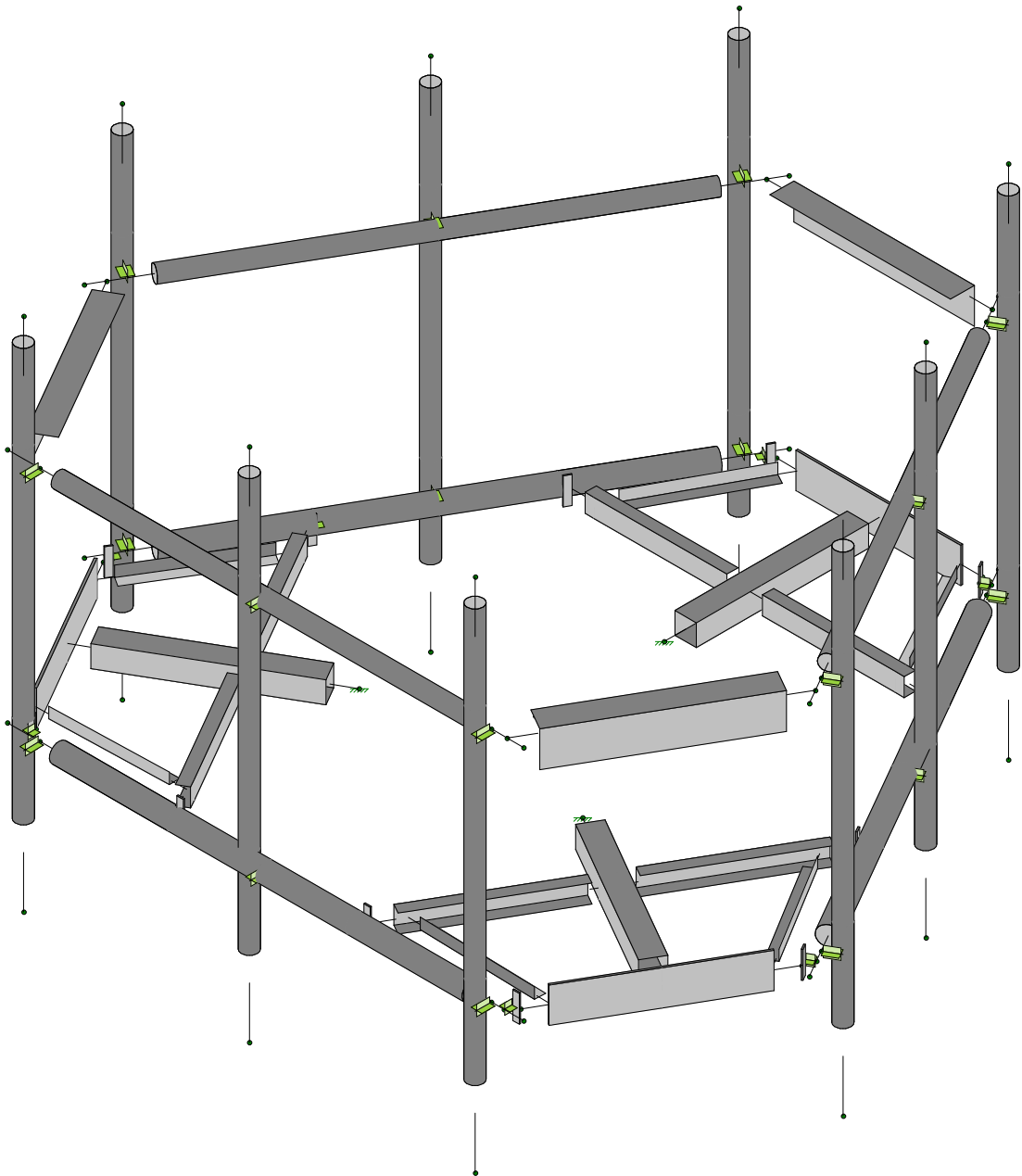
Wire Frame and Rendered Models



POD
BL
21-113672

876378

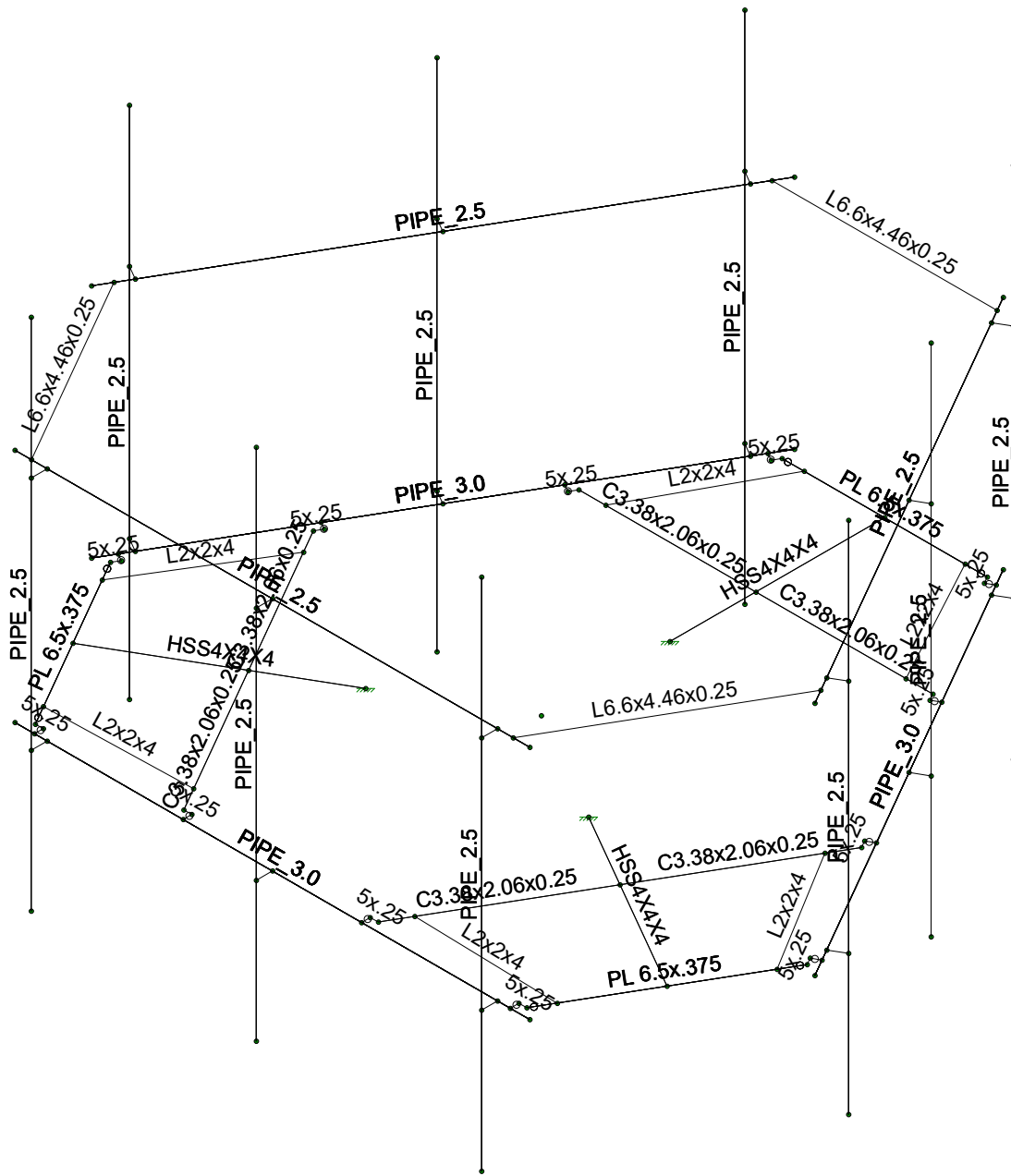
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Nov 3, 2021 at 11:47 AM
(PL86) 876378.r3d



POD
BL
21-113672

876378

SK - 2
Nov 3, 2021 at 11:48 AM
(PL86) 876378.r3d



POD

BL

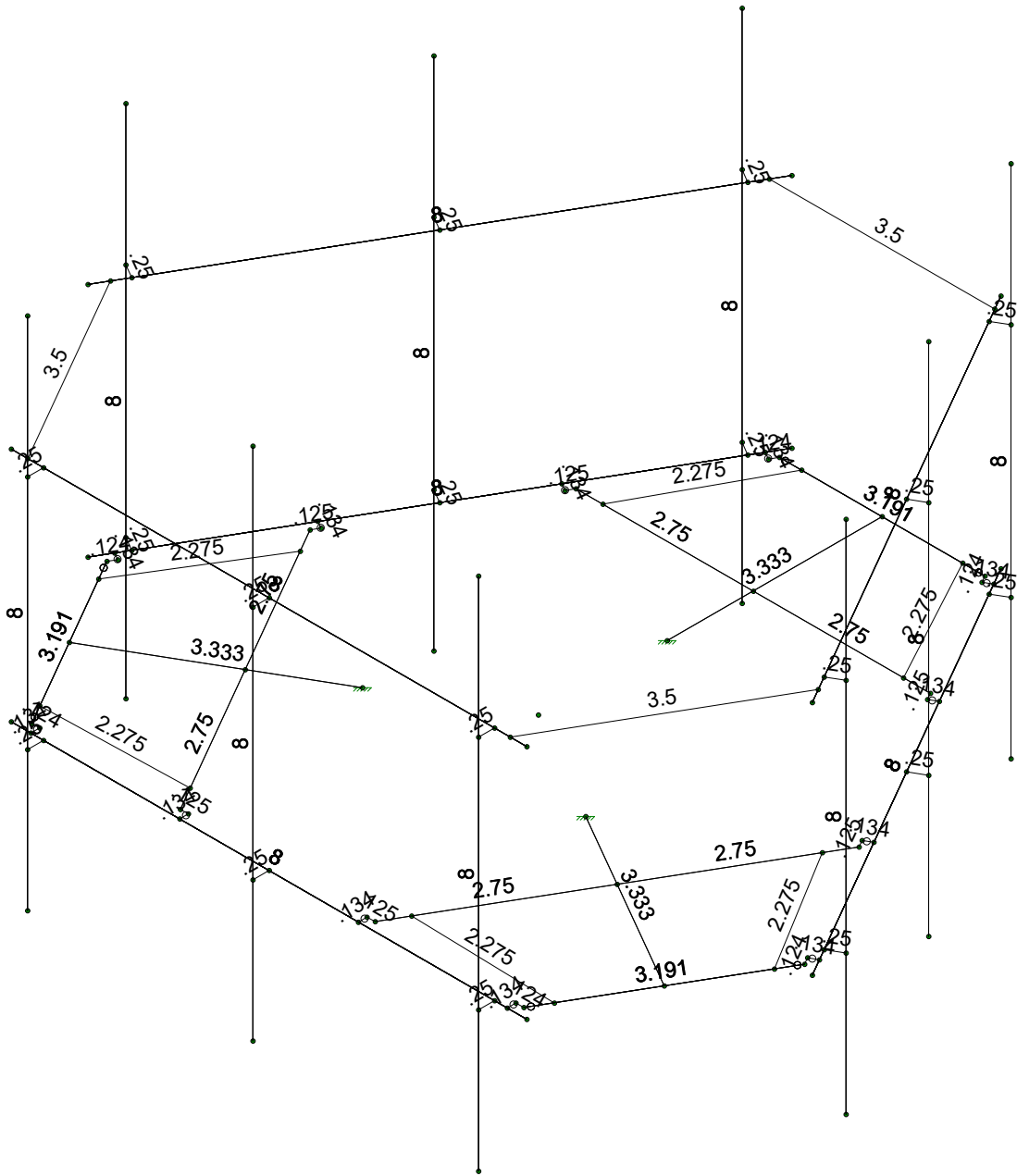
21-113672

876378

SK - 3

Nov 3, 2021 at 11:48 AM

(PL86) 876378.r3d



Member Length (ft) Displayed

POD

BL

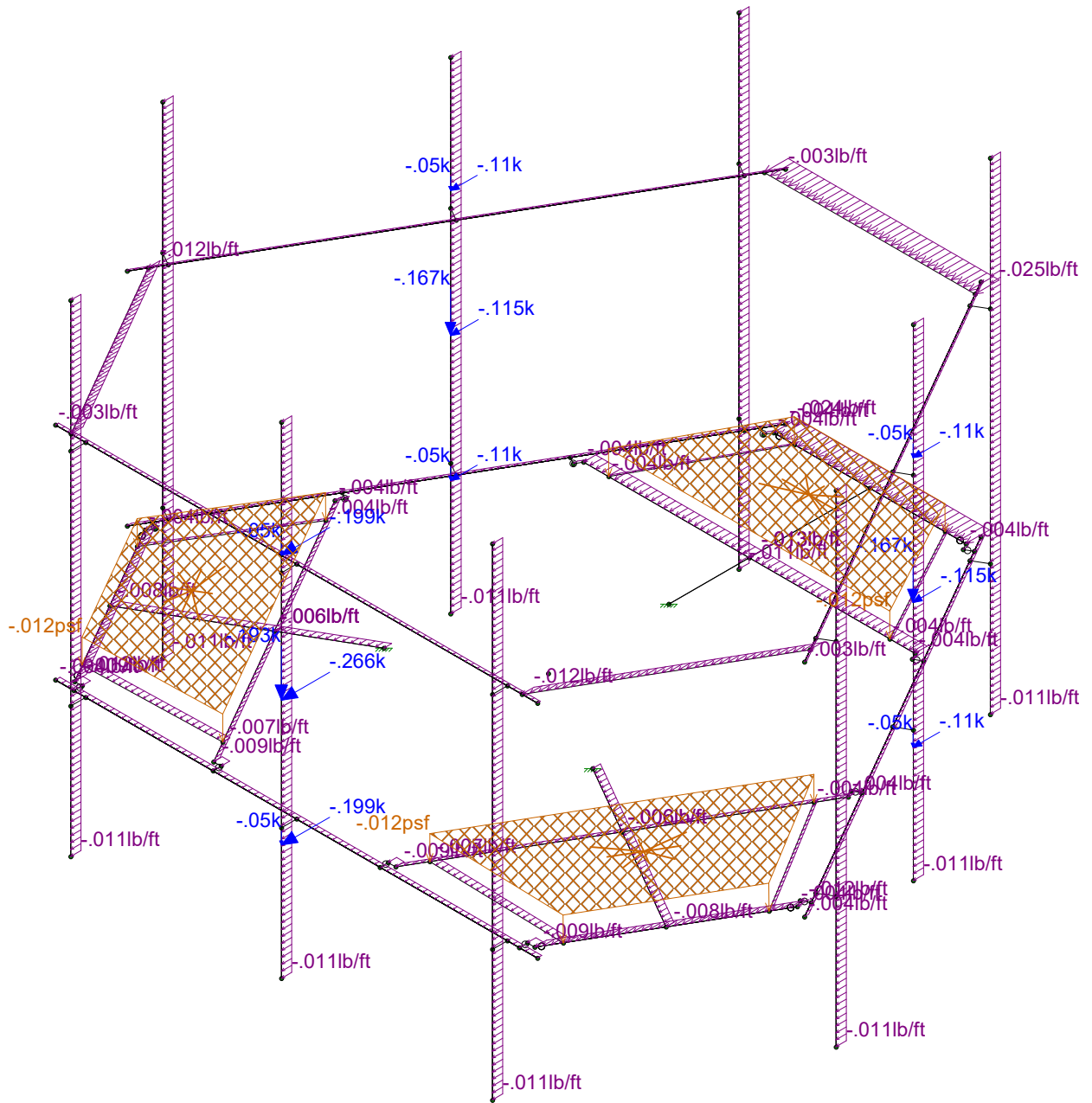
21-113672

876378

SK - 4

Nov 3, 2021 at 11:48 AM

(PL86) 876378.r3d



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

POD	876378	SK - 5
BL		Nov 3, 2021 at 11:48 AM
21-113672		(PL86) 876378.r3d

APPENDIX B
Software Input Calculations



POD Job # 21-113672
 Site Number 876378
 Site Name N. BETHANY / DAVID KLUDGE

General Site Information

Mount Type	SFP	Risk Category	II	I (seismic)	1	Use CFD	Yes
V (Wind Speed)	122	I(ice)	1	Sms	0.301		
Zs	792	Ss	0.188	Sml	0.151	width (ft)	height (ft)
ti	1	S1	0.063	Sds	0.201	8	3.667
Vi	50	Soil Site Class	D	Sd1	0.101		
Kat	1	Fa	1.600	Seismic Design Category			
Exposure	C	Fv	2.400	B			
zg	900			Seismic Analysis Not Required			
g	9.5	Tower Type	Monopole	R	2	TIA-222-H 16.7	
Kmin	0.85	Tower Height	190	As	1	TIA-222-H 16.7	
G _w	1			Cs, Min	0.03	TIA-222-H 2.7.7.1.1	
Ke	0.97			Cs	0.100266667	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			170	4	50		A/B/C	1	2
TA08025-B604			170	4			A/B/C	1	2
TA08025-B605			170	4			A/B/C	1	2
RDDIC-9181-PF-48			170	4			A	1	2

Mount Information

Elevation (ft)	170	Grating Thickness (in)	1
K _v	1.42	Grating Ice Weight (k/ft ²)	0.014
K _{tz}	1.18		
t _{tz}	1.18		

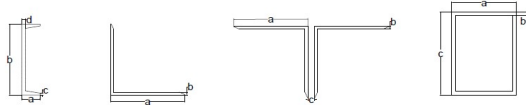
Mount Pipes	Length (ft)	Width (in)	Centerline
	8	2.375	170

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	qz (lb/ft ²)	[EPA] _w (ft ²)	[EPA] _e (ft ²)	Front	Side	Wind Force (Kips)		
											Alpha	Beta	Gamma
MX08FRO665-21	72.0	20.0	8.0	82.5	1.42	49.78	8.01	3.21	0.399	0.160	0.339	0.339	0.160
TA08025-8604	15.0	15.8	7.9	63.9	1.42	49.78	1.77	0.88	0.088	0.044	0.077	0.077	0.044
TA08025-8605	15.0	15.8	9.1	75.0	1.42	49.78	1.77	1.02	0.088	0.051	0.079	0.079	0.051
RDIDC-9181-PF-48	16.6	14.6	8.5	21.9	1.42	49.78	1.81	1.05	0.090	0.052	0.081	0.081	0.052

Appurtenance Ice Calculations

Model	t _{iz} (in)	Height	Width	Depth	Weight (lbs)	K _{iz}	q _i (lb/ft ²)	[EPA] _w (ft ²)	[EPA] _e (ft ²)	Front	Side	Wind Force (Kips)		
												Alpha	Beta	Gamma
MX08FRO665-21	1.18	74.36	22.36	10.36	184.58	1.18	8.36	8.32	3.86	0.070	0.032	0.060	0.060	0.032
TA08025-8604	1.18	17.32	18.11	10.23	43.81	1.18	8.36	1.37	0.78	0.011	0.006	0.010	0.010	0.006
TA08025-8605	1.18	17.32	18.11	11.42	46.82	1.18	8.36	1.37	0.87	0.011	0.007	0.010	0.010	0.007
RDIDC-9181-PF-48	1.18	18.93	16.93	10.82	46.10	1.18	8.36	1.40	0.90	0.012	0.008	0.011	0.011	0.008

Round Members

Member	q _i (lb/ft ²)	Ar	C	Wind Calculations				EPA (ft ²)	Load (k/ft)	Width (in)	Weight (k/ft)	q _i (lb/ft ²)	Ice Calculations			EPA (ft ²)	Load (k/ft)
				Rr	Cf	Rice	Rice						Cf				
face on	49.78	4.53	40.08	0.59	1.20	1.43	0.009	5.76	0.01	8.36	7.68	0.66	1.20	2.72	0.003		
face off	49.78	2.27	40.08	0.59	1.20	1.43	0.004	5.76	0.01	8.36	3.84	0.66	1.20	2.72	0.001		
rail on	49.78	3.17	28.00	0.59	1.20	1.01	0.006	4.73	0.01	8.36	6.31	0.66	1.20	2.23	0.002		
rail off	49.78	1.58	28.00	0.59	1.20	1.01	0.003	4.73	0.01	8.36	3.15	0.66	1.20	2.23	0.001		

Flat Members

Member	q _i (lb/ft ²)	Af	Cf	Wind Calculations				EPA	Load (k/ft)	Width (in)	Weight (k/ft)	q _i (lb/ft ²)	Ice Calculations			EPA	Load (k/ft)
				Rr	Cf	Rice	Rice						Cf				
SO	49.78	3.33	1.25	1.25	0.009	6.36	0.01	8.36	5.29	0.66	1.25	1.30	0.002				
Girt	49.78	2.28	2.00	0.58	0.007	4.36	0.01	8.36	4.96	0.66	2.00	0.97	0.002				
PI1	49.78	5.69	2.00	3.41	0.024	8.86	0.01	8.36	7.75	0.66	2.00	3.05	0.004				
CR	49.78	4.65	2.00	1.39	0.013	5.74	0.01	8.36	7.89	0.66	2.00	1.55	0.002				
Rail Con	49.78	5.78	2.00	3.47	0.025	8.96	0.01	8.36	7.84	0.66	2.00	3.08	0.004				
PI2	49.78	0.15	2.00	0.04	0.009	4.73	0.00	8.36	0.30	0.66	2.00	0.06	0.002				

Appurtenance Seismic Calculations

Model	Weight	Sds	p	Cs	As	Ev	Eh
MX08FRO665-21	82.5	0.201	1.000	0.100	1.000	0.003	0.008
TA08025-8604	63.9	0.201	1.000	0.100	1.000	0.003	0.006
TA08025-8605	75.0	0.201	1.000	0.100	1.000	0.003	0.008
RDIDC-9181-PF-48	21.9	0.201	1.000	0.100	1.000	0.001	0.002

APPENDIX C
Software Analysis Output



Company : POD
 Designer : BL
 Job Number : 21-113672
 Model Name : 876378

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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	3.191			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	3.191			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	3.191			Lbyy						Lateral
13	FACE1	PIPE 3.0	8			Lbyy						Lateral
14	MP ALPHA1	PIPE 2.5	8			Lbyy						Lateral
15	MP ALPHA3	PIPE 2.5	8			Lbyy						Lateral
16	RAIL1	PIPE 2.5	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	5x.25	.125									Lateral
27	PL5	5x.25	.125									Lateral
28	PL6	5x.25	.125									Lateral
29	PL7	5x.25	.125									Lateral
30	PL8	5x.25	.125									Lateral
31	PL9	5x.25	.125									Lateral
32	MP ALPHA2	PIPE 2.5	8			Lbyy						Lateral
33	FACE3	PIPE 3.0	8			Lbyy						Lateral
34	MP GAMMA1	PIPE 2.5	8			Lbyy						Lateral
35	MP GAMMA3	PIPE 2.5	8			Lbyy						Lateral
36	RAIL3	PIPE 2.5	8			Lbyy						Lateral
37	FACE2	PIPE 3.0	8			Lbyy						Lateral
38	MP BETA1	PIPE 2.5	8			Lbyy						Lateral
39	MP BETA3	PIPE 2.5	8			Lbyy						Lateral
40	RAIL2	PIPE 2.5	8			Lbyy						Lateral
41	MP BETA2	PIPE 2.5	8			Lbyy						Lateral
42	MP GAMMA2	PIPE 2.5	8			Lbyy						Lateral
43	M68B	5x.25	.124									Lateral
44	M70A	5x.25	.124									Lateral
45	M72A	5x.25	.124									Lateral
46	M74A	5x.25	.124									Lateral
47	M76	5x.25	.124									Lateral
48	M78	5x.25	.124									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



Company : POD
 Designer : BL
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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...
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
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

Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
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
67	M67	BenPIN					Yes	** NA **			None
68	M68B						Yes				None
69	M69	BenPIN					Yes	** NA **			None
70	M70A						Yes				None
71	M71	BenPIN					Yes	** NA **			None
72	M72A						Yes				None
73	M73	BenPIN					Yes	** NA **			None
74	M74A						Yes				None
75	M75	BenPIN					Yes	** NA **			None
76	M76						Yes				None
77	M77	BenPIN					Yes	** NA **			None
78	M78						Yes				None

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	A36 Gr.36	Typical
3	GRAT SUP2	P10	P11		90	L2x2x4	Beam	Single Angle	A36 Gr.36	Typical
4	PL1	P7	P8		90	PL 6.5x.375	Beam	RECT	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	A36 Gr.36	Typical
7	GRAT SUP4	P21	P22		270	L2x2x4	Beam	Single Angle	A36 Gr.36	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	A36 Gr.36	Typical
11	GRAT SUP6	P32	P33		90	L2x2x4	Beam	Single Angle	A36 Gr.36	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 2.5	Beam	Pipe	A500 GR.C	Typical
15	MP ALPHA3	N57	N63		180	PIPE 2.5	Beam	Pipe	A500 GR.C	Typical
16	RAIL1	N67	N68		90	PIPE 2.5	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	A1011 36 Ksi	Typical
25	CR2	P4	N124B		270	C3.38x2.06...	Beam	Channel	A1011 36 Ksi	Typical
26	CR3	P15	N122B		90	C3.38x2.06...	Beam	Channel	A1011 36 Ksi	Typical
27	CR4	P15	N123A		90	C3.38x2.06...	Beam	Channel	A1011 36 Ksi	Typical
28	CR5	P26	N125		90	C3.38x2.06...	Beam	Channel	A1011 36 Ksi	Typical
29	CR6	P26	N126		90	C3.38x2.06...	Beam	Channel	A1011 36 Ksi	Typical
30	M64	N126A	N125A		90	RIGID	None	None	RIGID	Typical
31	PL4	N126	N125A		270	5x.25	Beam	RECT	A36 Gr.36	Typical
32	M66	N129	N128		270	RIGID	None	None	RIGID	Typical
33	PL5	N124B	N128		90	5x.25	Beam	RECT	A36 Gr.36	Typical
34	M68	N132	N131		90	RIGID	None	None	RIGID	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(...	Section/Sh...	Type	Design List	Material	Design R...
35	PL6	N123A	N131		90	5x.25	Beam	RECT	A36 Gr.36	Typical
36	M70	N133	N132A		90	RIGID	None	None	RIGID	Typical
37	PL7	N122B	N132A		90	5x.25	Beam	RECT	A36 Gr.36	Typical
38	M72	N135	N134		270	RIGID	None	None	RIGID	Typical
39	PL8	N125	N134		270	5x.25	Beam	RECT	A36 Gr.36	Typical
40	M74	N138	N137		90	RIGID	None	None	RIGID	Typical
41	PL9	N122A	N137		270	5x.25	Beam	RECT	A36 Gr.36	Typical
42	MP ALPHA2	N80	N81		180	PIPE 2.5	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 2.5	Beam	Pipe	A500 GR.C	Typical
47	MP GAMMA3	N87	N89		180	PIPE 2.5	Beam	Pipe	A500 GR.C	Typical
48	RAIL3	N91	N92		270	PIPE 2.5	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 2.5	Beam	Pipe	A500 GR.C	Typical
55	MP BETA3	N115	N117		180	PIPE 2.5	Beam	Pipe	A500 GR.C	Typical
56	RAIL2	N119	N120		270	PIPE 2.5	Beam	Pipe	A500 GR.C	Typical
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 2.5	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 2.5	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
67	M67	N121A	N120B		90	RIGID	None	None	RIGID	Typical
68	M68B	P30	N120B		270	5x.25	Beam	RECT	A36 Gr.36	Typical
69	M69	N124A	N123B		90	RIGID	None	None	RIGID	Typical
70	M70A	P18	N123B		270	5x.25	Beam	RECT	A36 Gr.36	Typical
71	M71	N127	N126B		90	RIGID	None	None	RIGID	Typical
72	M72A	P19	N126B		90	5x.25	Beam	RECT	A36 Gr.36	Typical
73	M73	N130	N129A		90	RIGID	None	None	RIGID	Typical
74	M74A	P7	N129A		90	5x.25	Beam	RECT	A36 Gr.36	Typical
75	M75	N133A	N132B		270	RIGID	None	None	RIGID	Typical
76	M76	P8	N132B		90	5x.25	Beam	RECT	A36 Gr.36	Typical
77	M77	N136	N135A		270	RIGID	None	None	RIGID	Typical
78	M78	P29	N135A		90	5x.25	Beam	RECT	A36 Gr.36	Typical

Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm (1E...	Density[k/ft...	Yield[ksij]	Ry	Fu[ksij]	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

Hot Rolled Steel Properties (Continued)

	Label	E [ksi]	G [ksi]	Nu	Therm (1E...	Density[k/ft...	Yield[ksi]	Ry	Fu[ksi]	Rt
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	-.199	6.083
2	MP ALPHA2	Y	-.199	1.917
3	MP BETA2	Y	-.11	6.083
4	MP BETA2	Y	-.11	1.917
5	MP GAMMA2	Y	-.11	6.083
6	MP GAMMA2	Y	-.11	1.917
7	MP ALPHA2	Y	-.088	4
8	MP BETA2	Y	-.055	4
9	MP GAMMA2	Y	-.055	4
10	MP ALPHA2	Y	-.088	4
11	MP BETA2	Y	-.06	4
12	MP GAMMA2	Y	-.06	4
13	MP ALPHA2	Y	-.09	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
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	-.147	6.083
2	MP ALPHA2	Y	-.147	1.917
3	MP ALPHA2	X	-.085	6.083
4	MP ALPHA2	X	-.085	1.917
5	MP BETA2	Y	-.069	6.083
6	MP BETA2	Y	-.069	1.917
7	MP BETA2	X	-.04	6.083
8	MP BETA2	X	-.04	1.917
9	MP GAMMA2	Y	-.147	6.083
10	MP GAMMA2	Y	-.147	1.917

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
11	MP GAMMA2	X	-0.85	6.083
12	MP GAMMA2	X	-0.85	1.917
13	MP ALPHA2	Y	-0.67	4
14	MP ALPHA2	X	-0.38	4
15	MP BETA2	Y	-0.38	4
16	MP BETA2	X	-0.22	4
17	MP GAMMA2	Y	-0.67	4
18	MP GAMMA2	X	-0.38	4
19	MP ALPHA2	Y	-0.68	4
20	MP ALPHA2	X	-0.39	4
21	MP BETA2	Y	-0.44	4
22	MP BETA2	X	-0.25	4
23	MP GAMMA2	Y	-0.68	4
24	MP GAMMA2	X	-0.39	4
25	MP ALPHA2	Y	-0.7	4
26	MP ALPHA2	X	-0.4	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	MP ALPHA2	Y	-0.55	6.083
2	MP ALPHA2	Y	-0.55	1.917
3	MP ALPHA2	X	-0.95	6.083
4	MP ALPHA2	X	-0.95	1.917
5	MP BETA2	Y	-0.55	6.083
6	MP BETA2	Y	-0.55	1.917
7	MP BETA2	X	-0.95	6.083
8	MP BETA2	X	-0.95	1.917
9	MP GAMMA2	Y	-1	6.083
10	MP GAMMA2	Y	-1	1.917
11	MP GAMMA2	X	-1.73	6.083
12	MP GAMMA2	X	-1.73	1.917
13	MP ALPHA2	Y	-0.27	4
14	MP ALPHA2	X	-0.48	4
15	MP BETA2	Y	-0.27	4
16	MP BETA2	X	-0.48	4
17	MP GAMMA2	Y	-0.44	4
18	MP GAMMA2	X	-0.76	4
19	MP ALPHA2	Y	-0.3	4
20	MP ALPHA2	X	-0.52	4
21	MP BETA2	Y	-0.3	4
22	MP BETA2	X	-0.52	4
23	MP GAMMA2	Y	-0.44	4
24	MP GAMMA2	X	-0.76	4
25	MP ALPHA2	Y	-0.31	4
26	MP ALPHA2	X	-0.54	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	MP ALPHA2	X	-0.8	6.083
2	MP ALPHA2	X	-0.8	1.917
3	MP BETA2	X	-1.69	6.083
4	MP BETA2	X	-1.69	1.917
5	MP GAMMA2	X	-1.69	6.083
6	MP GAMMA2	X	-1.69	1.917
7	MP ALPHA2	X	-0.44	4
8	MP BETA2	X	-0.77	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
9	MP GAMMA2	X	-.077	4
10	MP ALPHA2	X	-.051	4
11	MP BETA2	X	-.079	4
12	MP GAMMA2	X	-.079	4
13	MP ALPHA2	X	-.052	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	.055	6.083
2	MP ALPHA2	Y	.055	1.917
3	MP ALPHA2	X	-.095	6.083
4	MP ALPHA2	X	-.095	1.917
5	MP BETA2	Y	.1	6.083
6	MP BETA2	Y	.1	1.917
7	MP BETA2	X	-.173	6.083
8	MP BETA2	X	-.173	1.917
9	MP GAMMA2	Y	.055	6.083
10	MP GAMMA2	Y	.055	1.917
11	MP GAMMA2	X	-.095	6.083
12	MP GAMMA2	X	-.095	1.917
13	MP ALPHA2	Y	.027	4
14	MP ALPHA2	X	-.048	4
15	MP BETA2	Y	.044	4
16	MP BETA2	X	-.076	4
17	MP GAMMA2	Y	.027	4
18	MP GAMMA2	X	-.048	4
19	MP ALPHA2	Y	.03	4
20	MP ALPHA2	X	-.052	4
21	MP BETA2	Y	.044	4
22	MP BETA2	X	-.076	4
23	MP GAMMA2	Y	.03	4
24	MP GAMMA2	X	-.052	4
25	MP ALPHA2	Y	.031	4
26	MP ALPHA2	X	-.054	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	.147	6.083
2	MP ALPHA2	Y	.147	1.917
3	MP ALPHA2	X	-.085	6.083
4	MP ALPHA2	X	-.085	1.917
5	MP BETA2	Y	.147	6.083
6	MP BETA2	Y	.147	1.917
7	MP BETA2	X	-.085	6.083
8	MP BETA2	X	-.085	1.917
9	MP GAMMA2	Y	.069	6.083
10	MP GAMMA2	Y	.069	1.917
11	MP GAMMA2	X	-.04	6.083
12	MP GAMMA2	X	-.04	1.917
13	MP ALPHA2	Y	.067	4
14	MP ALPHA2	X	-.038	4
15	MP BETA2	Y	.067	4
16	MP BETA2	X	-.038	4
17	MP GAMMA2	Y	.038	4
18	MP GAMMA2	X	-.022	4
19	MP ALPHA2	Y	.068	4



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
20	MP ALPHA2	X	-.039	4
21	MP BETA2	Y	.068	4
22	MP BETA2	X	-.039	4
23	MP GAMMA2	Y	.044	4
24	MP GAMMA2	X	-.025	4
25	MP ALPHA2	Y	.07	4
26	MP ALPHA2	X	-.04	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	.199	6.083
2	MP ALPHA2	Y	.199	1.917
3	MP BETA2	Y	.11	6.083
4	MP BETA2	Y	.11	1.917
5	MP GAMMA2	Y	.11	6.083
6	MP GAMMA2	Y	.11	1.917
7	MP ALPHA2	Y	.088	4
8	MP BETA2	Y	.055	4
9	MP GAMMA2	Y	.055	4
10	MP ALPHA2	Y	.088	4
11	MP BETA2	Y	.06	4
12	MP GAMMA2	Y	.06	4
13	MP ALPHA2	Y	.09	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	.147	6.083
2	MP ALPHA2	Y	.147	1.917
3	MP ALPHA2	X	.085	6.083
4	MP ALPHA2	X	.085	1.917
5	MP BETA2	Y	.069	6.083
6	MP BETA2	Y	.069	1.917
7	MP BETA2	X	.04	6.083
8	MP BETA2	X	.04	1.917
9	MP GAMMA2	Y	.147	6.083
10	MP GAMMA2	Y	.147	1.917
11	MP GAMMA2	X	.085	6.083
12	MP GAMMA2	X	.085	1.917
13	MP ALPHA2	Y	.067	4
14	MP ALPHA2	X	.038	4
15	MP BETA2	Y	.038	4
16	MP BETA2	X	.022	4
17	MP GAMMA2	Y	.067	4
18	MP GAMMA2	X	.038	4
19	MP ALPHA2	Y	.068	4
20	MP ALPHA2	X	.039	4
21	MP BETA2	Y	.044	4
22	MP BETA2	X	.025	4
23	MP GAMMA2	Y	.068	4
24	MP GAMMA2	X	.039	4
25	MP ALPHA2	Y	.07	4
26	MP ALPHA2	X	.04	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
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Member Point Loads (BLC 11 : Wind Load (240)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	MP ALPHA2	Y	.055	6.083
2	MP ALPHA2	Y	.055	1.917
3	MP ALPHA2	X	.095	6.083
4	MP ALPHA2	X	.095	1.917
5	MP BETA2	Y	.055	6.083
6	MP BETA2	Y	.055	1.917
7	MP BETA2	X	.095	6.083
8	MP BETA2	X	.095	1.917
9	MP GAMMA2	Y	.1	6.083
10	MP GAMMA2	Y	.1	1.917
11	MP GAMMA2	X	.173	6.083
12	MP GAMMA2	X	.173	1.917
13	MP ALPHA2	Y	.027	4
14	MP ALPHA2	X	.048	4
15	MP BETA2	Y	.027	4
16	MP BETA2	X	.048	4
17	MP GAMMA2	Y	.044	4
18	MP GAMMA2	X	.076	4
19	MP ALPHA2	Y	.03	4
20	MP ALPHA2	X	.052	4
21	MP BETA2	Y	.03	4
22	MP BETA2	X	.052	4
23	MP GAMMA2	Y	.044	4
24	MP GAMMA2	X	.076	4
25	MP ALPHA2	Y	.031	4
26	MP ALPHA2	X	.054	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	MP ALPHA2	X	.08	6.083
2	MP ALPHA2	X	.08	1.917
3	MP BETA2	X	.169	6.083
4	MP BETA2	X	.169	1.917
5	MP GAMMA2	X	.169	6.083
6	MP GAMMA2	X	.169	1.917
7	MP ALPHA2	X	.044	4
8	MP BETA2	X	.077	4
9	MP GAMMA2	X	.077	4
10	MP ALPHA2	X	.051	4
11	MP BETA2	X	.079	4
12	MP GAMMA2	X	.079	4
13	MP ALPHA2	X	.052	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	MP ALPHA2	Y	-.055	6.083
2	MP ALPHA2	Y	-.055	1.917
3	MP ALPHA2	X	.095	6.083
4	MP ALPHA2	X	.095	1.917
5	MP BETA2	Y	-.1	6.083
6	MP BETA2	Y	-.1	1.917
7	MP BETA2	X	.173	6.083
8	MP BETA2	X	.173	1.917
9	MP GAMMA2	Y	-.055	6.083
10	MP GAMMA2	Y	-.055	1.917
11	MP GAMMA2	X	.095	6.083



Company : POD
 Designer : BL
 Job Number : 21-113672
 Model Name : 876378

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
12	MP GAMMA2	X	.095	1.917
13	MP ALPHA2	Y	-.027	4
14	MP ALPHA2	X	.048	4
15	MP BETA2	Y	-.044	4
16	MP BETA2	X	.076	4
17	MP GAMMA2	Y	-.027	4
18	MP GAMMA2	X	.048	4
19	MP ALPHA2	Y	-.03	4
20	MP ALPHA2	X	.052	4
21	MP BETA2	Y	-.044	4
22	MP BETA2	X	.076	4
23	MP GAMMA2	Y	-.03	4
24	MP GAMMA2	X	.052	4
25	MP ALPHA2	Y	-.031	4
26	MP ALPHA2	X	.054	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	-.147	6.083
2	MP ALPHA2	Y	-.147	1.917
3	MP ALPHA2	X	.085	6.083
4	MP ALPHA2	X	.085	1.917
5	MP BETA2	Y	-.147	6.083
6	MP BETA2	Y	-.147	1.917
7	MP BETA2	X	.085	6.083
8	MP BETA2	X	.085	1.917
9	MP GAMMA2	Y	-.069	6.083
10	MP GAMMA2	Y	-.069	1.917
11	MP GAMMA2	X	.04	6.083
12	MP GAMMA2	X	.04	1.917
13	MP ALPHA2	Y	-.067	4
14	MP ALPHA2	X	.038	4
15	MP BETA2	Y	-.067	4
16	MP BETA2	X	.038	4
17	MP GAMMA2	Y	-.038	4
18	MP GAMMA2	X	.022	4
19	MP ALPHA2	Y	-.068	4
20	MP ALPHA2	X	.039	4
21	MP BETA2	Y	-.068	4
22	MP BETA2	X	.039	4
23	MP GAMMA2	Y	-.044	4
24	MP GAMMA2	X	.025	4
25	MP ALPHA2	Y	-.07	4
26	MP ALPHA2	X	.04	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	-.012	6.083
2	MP ALPHA2	Y	-.012	1.917
3	MP BETA2	Y	-.007	6.083
4	MP BETA2	Y	-.007	1.917
5	MP GAMMA2	Y	-.007	6.083
6	MP GAMMA2	Y	-.007	1.917
7	MP ALPHA2	Y	-.005	4
8	MP BETA2	Y	-.003	4
9	MP GAMMA2	Y	-.003	4



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 Designer : BL
 Job Number : 21-113672
 Model Name : 876378

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft.%]
10	MP ALPHA2	Y	-.005	4
11	MP BETA2	Y	-.004	4
12	MP GAMMA2	Y	-.004	4
13	MP ALPHA2	Y	-.005	4

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

	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 ALPHA2	X	-.005	6.083
4	MP ALPHA2	X	-.005	1.917
5	MP BETA2	Y	-.004	6.083
6	MP BETA2	Y	-.004	1.917
7	MP BETA2	X	-.002	6.083
8	MP BETA2	X	-.002	1.917
9	MP GAMMA2	Y	-.009	6.083
10	MP GAMMA2	Y	-.009	1.917
11	MP GAMMA2	X	-.005	6.083
12	MP GAMMA2	X	-.005	1.917
13	MP ALPHA2	Y	-.004	4
14	MP ALPHA2	X	-.002	4
15	MP BETA2	Y	-.002	4
16	MP BETA2	X	-.001	4
17	MP GAMMA2	Y	-.004	4
18	MP GAMMA2	X	-.002	4
19	MP ALPHA2	Y	-.004	4
20	MP ALPHA2	X	-.002	4
21	MP BETA2	Y	-.003	4
22	MP BETA2	X	-.002	4
23	MP GAMMA2	Y	-.004	4
24	MP GAMMA2	X	-.002	4
25	MP ALPHA2	Y	-.004	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	-.003	6.083
2	MP ALPHA2	Y	-.003	1.917
3	MP ALPHA2	X	-.006	6.083
4	MP ALPHA2	X	-.006	1.917
5	MP BETA2	Y	-.003	6.083
6	MP BETA2	Y	-.003	1.917
7	MP BETA2	X	-.006	6.083
8	MP BETA2	X	-.006	1.917
9	MP GAMMA2	Y	-.006	6.083
10	MP GAMMA2	Y	-.006	1.917
11	MP GAMMA2	X	-.01	6.083
12	MP GAMMA2	X	-.01	1.917
13	MP ALPHA2	Y	-.002	4
14	MP ALPHA2	X	-.003	4
15	MP BETA2	Y	-.002	4
16	MP BETA2	X	-.003	4
17	MP GAMMA2	Y	-.003	4
18	MP GAMMA2	X	-.005	4
19	MP ALPHA2	Y	-.002	4
20	MP ALPHA2	X	-.003	4



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
21	MP BETA2	Y	-.002	4
22	MP BETA2	X	-.003	4
23	MP GAMMA2	Y	-.003	4
24	MP GAMMA2	X	-.005	4
25	MP ALPHA2	Y	-.002	4
26	MP ALPHA2	X	-.003	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	X	-.005	6.083
2	MP ALPHA2	X	-.005	1.917
3	MP BETA2	X	-.01	6.083
4	MP BETA2	X	-.01	1.917
5	MP GAMMA2	X	-.01	6.083
6	MP GAMMA2	X	-.01	1.917
7	MP ALPHA2	X	-.003	4
8	MP BETA2	X	-.005	4
9	MP GAMMA2	X	-.005	4
10	MP ALPHA2	X	-.003	4
11	MP BETA2	X	-.005	4
12	MP GAMMA2	X	-.005	4
13	MP ALPHA2	X	-.003	4

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

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

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	.009	6.083



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
2	MP ALPHA2	Y	.009	1.917
3	MP ALPHA2	X	-.005	6.083
4	MP ALPHA2	X	-.005	1.917
5	MP BETA2	Y	.009	6.083
6	MP BETA2	Y	.009	1.917
7	MP BETA2	X	-.005	6.083
8	MP BETA2	X	-.005	1.917
9	MP GAMMA2	Y	.004	6.083
10	MP GAMMA2	Y	.004	1.917
11	MP GAMMA2	X	-.002	6.083
12	MP GAMMA2	X	-.002	1.917
13	MP ALPHA2	Y	.004	4
14	MP ALPHA2	X	-.002	4
15	MP BETA2	Y	.004	4
16	MP BETA2	X	-.002	4
17	MP GAMMA2	Y	.002	4
18	MP GAMMA2	X	-.001	4
19	MP ALPHA2	Y	.004	4
20	MP ALPHA2	X	-.002	4
21	MP BETA2	Y	.004	4
22	MP BETA2	X	-.002	4
23	MP GAMMA2	Y	.003	4
24	MP GAMMA2	X	-.002	4
25	MP ALPHA2	Y	.004	4
26	MP ALPHA2	X	-.002	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	.012	6.083
2	MP ALPHA2	Y	.012	1.917
3	MP BETA2	Y	.007	6.083
4	MP BETA2	Y	.007	1.917
5	MP GAMMA2	Y	.007	6.083
6	MP GAMMA2	Y	.007	1.917
7	MP ALPHA2	Y	.005	4
8	MP BETA2	Y	.003	4
9	MP GAMMA2	Y	.003	4
10	MP ALPHA2	Y	.005	4
11	MP BETA2	Y	.004	4
12	MP GAMMA2	Y	.004	4
13	MP ALPHA2	Y	.005	4

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

	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 ALPHA2	X	.005	6.083
4	MP ALPHA2	X	.005	1.917
5	MP BETA2	Y	.004	6.083
6	MP BETA2	Y	.004	1.917
7	MP BETA2	X	.002	6.083
8	MP BETA2	X	.002	1.917
9	MP GAMMA2	Y	.009	6.083
10	MP GAMMA2	Y	.009	1.917
11	MP GAMMA2	X	.005	6.083
12	MP GAMMA2	X	.005	1.917

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft. %]
13	MP ALPHA2	Y	.004	4
14	MP ALPHA2	X	.002	4
15	MP BETA2	Y	.002	4
16	MP BETA2	X	.001	4
17	MP GAMMA2	Y	.004	4
18	MP GAMMA2	X	.002	4
19	MP ALPHA2	Y	.004	4
20	MP ALPHA2	X	.002	4
21	MP BETA2	Y	.003	4
22	MP BETA2	X	.002	4
23	MP GAMMA2	Y	.004	4
24	MP GAMMA2	X	.002	4
25	MP ALPHA2	Y	.004	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	.003	6.083
2	MP ALPHA2	Y	.003	1.917
3	MP ALPHA2	X	.006	6.083
4	MP ALPHA2	X	.006	1.917
5	MP BETA2	Y	.003	6.083
6	MP BETA2	Y	.003	1.917
7	MP BETA2	X	.006	6.083
8	MP BETA2	X	.006	1.917
9	MP GAMMA2	Y	.006	6.083
10	MP GAMMA2	Y	.006	1.917
11	MP GAMMA2	X	.01	6.083
12	MP GAMMA2	X	.01	1.917
13	MP ALPHA2	Y	.002	4
14	MP ALPHA2	X	.003	4
15	MP BETA2	Y	.002	4
16	MP BETA2	X	.003	4
17	MP GAMMA2	Y	.003	4
18	MP GAMMA2	X	.005	4
19	MP ALPHA2	Y	.002	4
20	MP ALPHA2	X	.003	4
21	MP BETA2	Y	.002	4
22	MP BETA2	X	.003	4
23	MP GAMMA2	Y	.003	4
24	MP GAMMA2	X	.005	4
25	MP ALPHA2	Y	.002	4
26	MP ALPHA2	X	.003	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft. %]
1	MP ALPHA2	X	.005	6.083
2	MP ALPHA2	X	.005	1.917
3	MP BETA2	X	.01	6.083
4	MP BETA2	X	.01	1.917
5	MP GAMMA2	X	.01	6.083
6	MP GAMMA2	X	.01	1.917
7	MP ALPHA2	X	.003	4
8	MP BETA2	X	.005	4
9	MP GAMMA2	X	.005	4
10	MP ALPHA2	X	.003	4



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

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

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

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

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

	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 ALPHA2	X	.005	6.083
4	MP ALPHA2	X	.005	1.917
5	MP BETA2	Y	-.009	6.083
6	MP BETA2	Y	-.009	1.917
7	MP BETA2	X	.005	6.083
8	MP BETA2	X	.005	1.917
9	MP GAMMA2	Y	-.004	6.083
10	MP GAMMA2	Y	-.004	1.917
11	MP GAMMA2	X	.002	6.083
12	MP GAMMA2	X	.002	1.917
13	MP ALPHA2	Y	-.004	4
14	MP ALPHA2	X	.002	4
15	MP BETA2	Y	-.004	4
16	MP BETA2	X	.002	4
17	MP GAMMA2	Y	-.002	4
18	MP GAMMA2	X	.001	4
19	MP ALPHA2	Y	-.004	4
20	MP ALPHA2	X	.002	4
21	MP BETA2	Y	-.004	4

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

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

Member Point Loads (BLC 27 : Ice Dead Load)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Z	-.092	6.083
2	MP ALPHA2	Z	-.092	1.917
3	MP BETA2	Z	-.092	6.083
4	MP BETA2	Z	-.092	1.917
5	MP GAMMA2	Z	-.092	6.083
6	MP GAMMA2	Z	-.092	1.917
7	MP ALPHA2	Z	-.044	4
8	MP BETA2	Z	-.044	4
9	MP GAMMA2	Z	-.044	4
10	MP ALPHA2	Z	-.047	4
11	MP BETA2	Z	-.047	4
12	MP GAMMA2	Z	-.047	4
13	MP ALPHA2	Z	-.046	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	-.035	6.083
2	MP ALPHA2	Y	-.035	1.917
3	MP BETA2	Y	-.021	6.083
4	MP BETA2	Y	-.021	1.917
5	MP GAMMA2	Y	-.021	6.083
6	MP GAMMA2	Y	-.021	1.917
7	MP ALPHA2	Y	-.011	4
8	MP BETA2	Y	-.008	4
9	MP GAMMA2	Y	-.008	4
10	MP ALPHA2	Y	-.011	4
11	MP BETA2	Y	-.008	4
12	MP GAMMA2	Y	-.008	4
13	MP ALPHA2	Y	-.012	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	-.026	6.083
2	MP ALPHA2	Y	-.026	1.917
3	MP ALPHA2	X	-.015	6.083
4	MP ALPHA2	X	-.015	1.917
5	MP BETA2	Y	-.014	6.083
6	MP BETA2	Y	-.014	1.917
7	MP BETA2	X	-.008	6.083
8	MP BETA2	X	-.008	1.917
9	MP GAMMA2	Y	-.026	6.083
10	MP GAMMA2	Y	-.026	1.917
11	MP GAMMA2	X	-.015	6.083
12	MP GAMMA2	X	-.015	1.917
13	MP ALPHA2	Y	-.009	4
14	MP ALPHA2	X	-.005	4
15	MP BETA2	Y	-.006	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
16	MP BETA2	X	-0.03	4
17	MP GAMMA2	Y	-0.09	4
18	MP GAMMA2	X	-0.05	4
19	MP ALPHA2	Y	-0.09	4
20	MP ALPHA2	X	-0.05	4
21	MP BETA2	Y	-0.06	4
22	MP BETA2	X	-0.04	4
23	MP GAMMA2	Y	-0.09	4
24	MP GAMMA2	X	-0.05	4
25	MP ALPHA2	Y	-0.09	4
26	MP ALPHA2	X	-0.05	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	-0.1	6.083
2	MP ALPHA2	Y	-0.1	1.917
3	MP ALPHA2	X	-0.18	6.083
4	MP ALPHA2	X	-0.18	1.917
5	MP BETA2	Y	-0.1	6.083
6	MP BETA2	Y	-0.1	1.917
7	MP BETA2	X	-0.18	6.083
8	MP BETA2	X	-0.18	1.917
9	MP GAMMA2	Y	-0.17	6.083
10	MP GAMMA2	Y	-0.17	1.917
11	MP GAMMA2	X	-0.3	6.083
12	MP GAMMA2	X	-0.3	1.917
13	MP ALPHA2	Y	-0.04	4
14	MP ALPHA2	X	-0.07	4
15	MP BETA2	Y	-0.04	4
16	MP BETA2	X	-0.07	4
17	MP GAMMA2	Y	-0.06	4
18	MP GAMMA2	X	-0.1	4
19	MP ALPHA2	Y	-0.04	4
20	MP ALPHA2	X	-0.07	4
21	MP BETA2	Y	-0.04	4
22	MP BETA2	X	-0.07	4
23	MP GAMMA2	Y	-0.06	4
24	MP GAMMA2	X	-0.1	4
25	MP ALPHA2	Y	-0.04	4
26	MP ALPHA2	X	-0.07	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	X	-0.16	6.083
2	MP ALPHA2	X	-0.16	1.917
3	MP BETA2	X	-0.3	6.083
4	MP BETA2	X	-0.3	1.917
5	MP GAMMA2	X	-0.3	6.083
6	MP GAMMA2	X	-0.3	1.917
7	MP ALPHA2	X	-0.06	4
8	MP BETA2	X	-0.1	4
9	MP GAMMA2	X	-0.1	4
10	MP ALPHA2	X	-0.07	4
11	MP BETA2	X	-0.1	4
12	MP GAMMA2	X	-0.1	4
13	MP ALPHA2	X	-0.08	4



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	MP ALPHA2	Y	.01	6.083
2	MP ALPHA2	Y	.01	1.917
3	MP ALPHA2	X	-.018	6.083
4	MP ALPHA2	X	-.018	1.917
5	MP BETA2	Y	.017	6.083
6	MP BETA2	Y	.017	1.917
7	MP BETA2	X	-.03	6.083
8	MP BETA2	X	-.03	1.917
9	MP GAMMA2	Y	.01	6.083
10	MP GAMMA2	Y	.01	1.917
11	MP GAMMA2	X	-.018	6.083
12	MP GAMMA2	X	-.018	1.917
13	MP ALPHA2	Y	.004	4
14	MP ALPHA2	X	-.007	4
15	MP BETA2	Y	.006	4
16	MP BETA2	X	-.01	4
17	MP GAMMA2	Y	.004	4
18	MP GAMMA2	X	-.007	4
19	MP ALPHA2	Y	.004	4
20	MP ALPHA2	X	-.007	4
21	MP BETA2	Y	.006	4
22	MP BETA2	X	-.01	4
23	MP GAMMA2	Y	.004	4
24	MP GAMMA2	X	-.007	4
25	MP ALPHA2	Y	.004	4
26	MP ALPHA2	X	-.007	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	MP ALPHA2	Y	.026	6.083
2	MP ALPHA2	Y	.026	1.917
3	MP ALPHA2	X	-.015	6.083
4	MP ALPHA2	X	-.015	1.917
5	MP BETA2	Y	.026	6.083
6	MP BETA2	Y	.026	1.917
7	MP BETA2	X	-.015	6.083
8	MP BETA2	X	-.015	1.917
9	MP GAMMA2	Y	.014	6.083
10	MP GAMMA2	Y	.014	1.917
11	MP GAMMA2	X	-.008	6.083
12	MP GAMMA2	X	-.008	1.917
13	MP ALPHA2	Y	.009	4
14	MP ALPHA2	X	-.005	4
15	MP BETA2	Y	.009	4
16	MP BETA2	X	-.005	4
17	MP GAMMA2	Y	.006	4
18	MP GAMMA2	X	-.003	4
19	MP ALPHA2	Y	.009	4
20	MP ALPHA2	X	-.005	4
21	MP BETA2	Y	.009	4
22	MP BETA2	X	-.005	4
23	MP GAMMA2	Y	.006	4
24	MP GAMMA2	X	-.004	4
25	MP ALPHA2	Y	.009	4
26	MP ALPHA2	X	-.005	4



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	MP ALPHA2	Y	.035	6.083
2	MP ALPHA2	Y	.035	1.917
3	MP BETA2	Y	.021	6.083
4	MP BETA2	Y	.021	1.917
5	MP GAMMA2	Y	.021	6.083
6	MP GAMMA2	Y	.021	1.917
7	MP ALPHA2	Y	.011	4
8	MP BETA2	Y	.008	4
9	MP GAMMA2	Y	.008	4
10	MP ALPHA2	Y	.011	4
11	MP BETA2	Y	.008	4
12	MP GAMMA2	Y	.008	4
13	MP ALPHA2	Y	.012	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	MP ALPHA2	Y	.026	6.083
2	MP ALPHA2	Y	.026	1.917
3	MP ALPHA2	X	.015	6.083
4	MP ALPHA2	X	.015	1.917
5	MP BETA2	Y	.014	6.083
6	MP BETA2	Y	.014	1.917
7	MP BETA2	X	.008	6.083
8	MP BETA2	X	.008	1.917
9	MP GAMMA2	Y	.026	6.083
10	MP GAMMA2	Y	.026	1.917
11	MP GAMMA2	X	.015	6.083
12	MP GAMMA2	X	.015	1.917
13	MP ALPHA2	Y	.009	4
14	MP ALPHA2	X	.005	4
15	MP BETA2	Y	.006	4
16	MP BETA2	X	.003	4
17	MP GAMMA2	Y	.009	4
18	MP GAMMA2	X	.005	4
19	MP ALPHA2	Y	.009	4
20	MP ALPHA2	X	.005	4
21	MP BETA2	Y	.006	4
22	MP BETA2	X	.004	4
23	MP GAMMA2	Y	.009	4
24	MP GAMMA2	X	.005	4
25	MP ALPHA2	Y	.009	4
26	MP ALPHA2	X	.005	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	MP ALPHA2	Y	.01	6.083
2	MP ALPHA2	Y	.01	1.917
3	MP ALPHA2	X	.018	6.083
4	MP ALPHA2	X	.018	1.917
5	MP BETA2	Y	.01	6.083
6	MP BETA2	Y	.01	1.917
7	MP BETA2	X	.018	6.083
8	MP BETA2	X	.018	1.917
9	MP GAMMA2	Y	.017	6.083
10	MP GAMMA2	Y	.017	1.917
11	MP GAMMA2	X	.03	6.083



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
12	MP GAMMA2	X	.03	1.917
13	MP ALPHA2	Y	.004	4
14	MP ALPHA2	X	.007	4
15	MP BETA2	Y	.004	4
16	MP BETA2	X	.007	4
17	MP GAMMA2	Y	.006	4
18	MP GAMMA2	X	.01	4
19	MP ALPHA2	Y	.004	4
20	MP ALPHA2	X	.007	4
21	MP BETA2	Y	.004	4
22	MP BETA2	X	.007	4
23	MP GAMMA2	Y	.006	4
24	MP GAMMA2	X	.01	4
25	MP ALPHA2	Y	.004	4
26	MP ALPHA2	X	.007	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	X	.016	6.083
2	MP ALPHA2	X	.016	1.917
3	MP BETA2	X	.03	6.083
4	MP BETA2	X	.03	1.917
5	MP GAMMA2	X	.03	6.083
6	MP GAMMA2	X	.03	1.917
7	MP ALPHA2	X	.006	4
8	MP BETA2	X	.01	4
9	MP GAMMA2	X	.01	4
10	MP ALPHA2	X	.007	4
11	MP BETA2	X	.01	4
12	MP GAMMA2	X	.01	4
13	MP ALPHA2	X	.008	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	-.01	6.083
2	MP ALPHA2	Y	-.01	1.917
3	MP ALPHA2	X	.018	6.083
4	MP ALPHA2	X	.018	1.917
5	MP BETA2	Y	-.017	6.083
6	MP BETA2	Y	-.017	1.917
7	MP BETA2	X	.03	6.083
8	MP BETA2	X	.03	1.917
9	MP GAMMA2	Y	-.01	6.083
10	MP GAMMA2	Y	-.01	1.917
11	MP GAMMA2	X	.018	6.083
12	MP GAMMA2	X	.018	1.917
13	MP ALPHA2	Y	-.004	4
14	MP ALPHA2	X	.007	4
15	MP BETA2	Y	-.006	4
16	MP BETA2	X	.01	4
17	MP GAMMA2	Y	-.004	4
18	MP GAMMA2	X	.007	4
19	MP ALPHA2	Y	-.004	4
20	MP ALPHA2	X	.007	4
21	MP BETA2	Y	-.006	4
22	MP BETA2	X	.01	4

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

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

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft. %]
1	MP ALPHA2	Y	-.026	6.083
2	MP ALPHA2	Y	-.026	1.917
3	MP ALPHA2	X	.015	6.083
4	MP ALPHA2	X	.015	1.917
5	MP BETA2	Y	-.026	6.083
6	MP BETA2	Y	-.026	1.917
7	MP BETA2	X	.015	6.083
8	MP BETA2	X	.015	1.917
9	MP GAMMA2	Y	-.014	6.083
10	MP GAMMA2	Y	-.014	1.917
11	MP GAMMA2	X	.008	6.083
12	MP GAMMA2	X	.008	1.917
13	MP ALPHA2	Y	-.009	4
14	MP ALPHA2	X	.005	4
15	MP BETA2	Y	-.009	4
16	MP BETA2	X	.005	4
17	MP GAMMA2	Y	-.006	4
18	MP GAMMA2	X	.003	4
19	MP ALPHA2	Y	-.009	4
20	MP ALPHA2	X	.005	4
21	MP BETA2	Y	-.009	4
22	MP BETA2	X	.005	4
23	MP GAMMA2	Y	-.006	4
24	MP GAMMA2	X	.004	4
25	MP ALPHA2	Y	-.009	4
26	MP ALPHA2	X	.005	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft. %]
1	MP ALPHA2	X	-.004	6.083
2	MP ALPHA2	X	-.004	1.917
3	MP BETA2	X	-.004	6.083
4	MP BETA2	X	-.004	1.917
5	MP GAMMA2	X	-.004	6.083
6	MP GAMMA2	X	-.004	1.917
7	MP ALPHA2	X	-.006	4
8	MP BETA2	X	-.006	4
9	MP GAMMA2	X	-.006	4
10	MP ALPHA2	X	-.008	4
11	MP BETA2	X	-.008	4
12	MP GAMMA2	X	-.008	4
13	MP ALPHA2	X	-.002	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft. %]
1	MP ALPHA2	Y	-.004	6.083
2	MP ALPHA2	Y	-.004	1.917
3	MP BETA2	Y	-.004	6.083

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
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	-0.08	4
11	MP BETA2	Y	-0.08	4
12	MP GAMMA2	Y	-0.08	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	-0.03	4
8	MP BETA2	Z	-0.03	4
9	MP GAMMA2	Z	-0.03	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	-0.00876	4

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	SO1	PY	-0.009	-0.009	0	0
2	GRAT SUP	PY	-0.007	-0.007	0	0
3	GRAT SUP2	PY	-0.007	-0.007	0	0
4	PL1	PY	-0.024	-0.024	0	0
5	SO2	PY	-0.009	-0.009	0	0
6	GRAT SUP3	PY	-0.007	-0.007	0	0
7	GRAT SUP4	PY	-0.007	-0.007	0	0
8	PL2	PY	-0.024	-0.024	0	0
9	SO3	PY	-0.009	-0.009	0	0
10	GRAT SUP5	PY	-0.007	-0.007	0	0
11	GRAT SUP6	PY	-0.007	-0.007	0	0
12	PL3	PY	-0.024	-0.024	0	0
13	FACE1	PY	-0.004	-0.004	0	0
14	MP ALPHA1	PY	-0.011	-0.011	0	0
15	MP ALPHA3	PY	-0.011	-0.011	0	0
16	RAIL1	PY	-0.003	-0.003	0	0
17	RAIL CON3	PY	-0.025	-0.025	0	0
18	RAIL CON1	PY	-0.025	-0.025	0	0
19	RAIL CON2	PY	-0.025	-0.025	0	0
20	CR1	PY	-0.013	-0.013	0	0
21	CR2	PY	-0.013	-0.013	0	0
22	CR3	PY	-0.013	-0.013	0	0
23	CR4	PY	-0.013	-0.013	0	0
24	CR5	PY	-0.013	-0.013	0	0
25	CR6	PY	-0.013	-0.013	0	0
26	PL4	PY	-0.009	-0.009	0	0



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
27	PL5	PY	-0.009	-0.009	0	0
28	PL6	PY	-0.009	-0.009	0	0
29	PL7	PY	-0.009	-0.009	0	0
30	PL8	PY	-0.009	-0.009	0	0
31	PL9	PY	-0.009	-0.009	0	0
32	MP ALPHA2	PY	-0.011	-0.011	0	0
33	FACE3	PY	-0.009	-0.009	0	0
34	MP GAMMA1	PY	-0.011	-0.011	0	0
35	MP GAMMA3	PY	-0.011	-0.011	0	0
36	RAIL3	PY	-0.006	-0.006	0	0
37	FACE2	PY	-0.009	-0.009	0	0
38	MP BETA1	PY	-0.011	-0.011	0	0
39	MP BETA3	PY	-0.011	-0.011	0	0
40	RAIL2	PY	-0.006	-0.006	0	0
41	MP BETA2	PY	-0.011	-0.011	0	0
42	MP GAMMA2	PY	-0.011	-0.011	0	0
43	M68B	PY	-0.009	-0.009	0	0
44	M70A	PY	-0.009	-0.009	0	0
45	M72A	PY	-0.009	-0.009	0	0
46	M74A	PY	-0.009	-0.009	0	0
47	M76	PY	-0.009	-0.009	0	0
48	M78	PY	-0.009	-0.009	0	0

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	SO1	PY	-0.008	-0.008	0	0
2	GRAT SUP	PY	-0.006	-0.006	0	0
3	GRAT SUP2	PY	-0.006	-0.006	0	0
4	PL1	PY	-0.021	-0.021	0	0
5	SO2	PY	-0.008	-0.008	0	0
6	GRAT SUP3	PY	-0.006	-0.006	0	0
7	GRAT SUP4	PY	-0.006	-0.006	0	0
8	PL2	PY	-0.021	-0.021	0	0
9	SO3	PY	-0.008	-0.008	0	0
10	GRAT SUP5	PY	-0.006	-0.006	0	0
11	GRAT SUP6	PY	-0.006	-0.006	0	0
12	PL3	PY	-0.021	-0.021	0	0
13	FACE1	PY	-0.004	-0.004	0	0
14	MP ALPHA1	PY	-0.009	-0.009	0	0
15	MP ALPHA3	PY	-0.009	-0.009	0	0
16	RAIL1	PY	-0.003	-0.003	0	0
17	RAIL CON3	PY	-0.021	-0.021	0	0
18	RAIL CON1	PY	-0.021	-0.021	0	0
19	RAIL CON2	PY	-0.021	-0.021	0	0
20	CR1	PY	-0.011	-0.011	0	0
21	CR2	PY	-0.011	-0.011	0	0
22	CR3	PY	-0.011	-0.011	0	0
23	CR4	PY	-0.011	-0.011	0	0
24	CR5	PY	-0.011	-0.011	0	0
25	CR6	PY	-0.011	-0.011	0	0
26	PL4	PY	-0.008	-0.008	0	0
27	PL5	PY	-0.008	-0.008	0	0
28	PL6	PY	-0.008	-0.008	0	0
29	PL7	PY	-0.008	-0.008	0	0
30	PL8	PY	-0.008	-0.008	0	0
31	PL9	PY	-0.008	-0.008	0	0



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
32	MP ALPHA2	PY	-0.009	-0.009	0	0
33	FACE3	PY	-0.008	-0.008	0	0
34	MP GAMMA1	PY	-0.009	-0.009	0	0
35	MP GAMMA3	PY	-0.009	-0.009	0	0
36	RAIL3	PY	-0.005	-0.005	0	0
37	FACE2	PY	-0.008	-0.008	0	0
38	MP BETA1	PY	-0.009	-0.009	0	0
39	MP BETA3	PY	-0.009	-0.009	0	0
40	RAIL2	PY	-0.005	-0.005	0	0
41	MP BETA2	PY	-0.009	-0.009	0	0
42	MP GAMMA2	PY	-0.009	-0.009	0	0
43	SO1	PX	-0.005	-0.005	0	0
44	GRAT SUP	PX	-0.004	-0.004	0	0
45	GRAT SUP2	PX	-0.004	-0.004	0	0
46	PL1	PX	-0.012	-0.012	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	-0.012	-0.012	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	-0.012	-0.012	0	0
55	FACE1	PX	-0.002	-0.002	0	0
56	MP ALPHA1	PX	-0.005	-0.005	0	0
57	MP ALPHA3	PX	-0.005	-0.005	0	0
58	RAIL1	PX	-0.002	-0.002	0	0
59	RAIL CON3	PX	-0.012	-0.012	0	0
60	RAIL CON1	PX	-0.012	-0.012	0	0
61	RAIL CON2	PX	-0.012	-0.012	0	0
62	CR1	PX	-0.006	-0.006	0	0
63	CR2	PX	-0.006	-0.006	0	0
64	CR3	PX	-0.006	-0.006	0	0
65	CR4	PX	-0.006	-0.006	0	0
66	CR5	PX	-0.006	-0.006	0	0
67	CR6	PX	-0.006	-0.006	0	0
68	PL4	PX	-0.004	-0.004	0	0
69	PL5	PX	-0.004	-0.004	0	0
70	PL6	PX	-0.004	-0.004	0	0
71	PL7	PX	-0.004	-0.004	0	0
72	PL8	PX	-0.004	-0.004	0	0
73	PL9	PX	-0.004	-0.004	0	0
74	MP ALPHA2	PX	-0.005	-0.005	0	0
75	FACE3	PX	-0.004	-0.004	0	0
76	MP GAMMA1	PX	-0.005	-0.005	0	0
77	MP GAMMA3	PX	-0.005	-0.005	0	0
78	RAIL3	PX	-0.003	-0.003	0	0
79	FACE2	PX	-0.004	-0.004	0	0
80	MP BETA1	PX	-0.005	-0.005	0	0
81	MP BETA3	PX	-0.005	-0.005	0	0
82	RAIL2	PX	-0.003	-0.003	0	0
83	MP BETA2	PX	-0.005	-0.005	0	0
84	MP GAMMA2	PX	-0.005	-0.005	0	0
85	M68B	PY	-0.008	-0.008	0	0
86	M68B	PX	-0.004	-0.004	0	0
87	M70A	PY	-0.008	-0.008	0	0
88	M70A	PX	-0.004	-0.004	0	0



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
89	M72A	PY	-0.008	-0.008	0	0
90	M72A	PX	-0.004	-0.004	0	0
91	M74A	PY	-0.008	-0.008	0	0
92	M74A	PX	-0.004	-0.004	0	0
93	M76	PY	-0.008	-0.008	0	0
94	M76	PX	-0.004	-0.004	0	0
95	M78	PY	-0.008	-0.008	0	0
96	M78	PX	-0.004	-0.004	0	0

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/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	-0.012	-0.012	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	-0.012	-0.012	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	-0.012	-0.012	0	0
13	FACE1	PY	-0.002	-0.002	0	0
14	MP ALPHA1	PY	-0.005	-0.005	0	0
15	MP ALPHA3	PY	-0.005	-0.005	0	0
16	RAIL1	PY	-0.002	-0.002	0	0
17	RAIL CON3	PY	-0.012	-0.012	0	0
18	RAIL CON1	PY	-0.012	-0.012	0	0
19	RAIL CON2	PY	-0.012	-0.012	0	0
20	CR1	PY	-0.006	-0.006	0	0
21	CR2	PY	-0.006	-0.006	0	0
22	CR3	PY	-0.006	-0.006	0	0
23	CR4	PY	-0.006	-0.006	0	0
24	CR5	PY	-0.006	-0.006	0	0
25	CR6	PY	-0.006	-0.006	0	0
26	PL4	PY	-0.004	-0.004	0	0
27	PL5	PY	-0.004	-0.004	0	0
28	PL6	PY	-0.004	-0.004	0	0
29	PL7	PY	-0.004	-0.004	0	0
30	PL8	PY	-0.004	-0.004	0	0
31	PL9	PY	-0.004	-0.004	0	0
32	MP ALPHA2	PY	-0.005	-0.005	0	0
33	FACE3	PY	-0.004	-0.004	0	0
34	MP GAMMA1	PY	-0.005	-0.005	0	0
35	MP GAMMA3	PY	-0.005	-0.005	0	0
36	RAIL3	PY	-0.003	-0.003	0	0
37	FACE2	PY	-0.004	-0.004	0	0
38	MP BETA1	PY	-0.005	-0.005	0	0
39	MP BETA3	PY	-0.005	-0.005	0	0
40	RAIL2	PY	-0.003	-0.003	0	0
41	MP BETA2	PY	-0.005	-0.005	0	0
42	MP GAMMA2	PY	-0.005	-0.005	0	0
43	SO1	PX	-0.008	-0.008	0	0
44	GRAT SUP	PX	-0.006	-0.006	0	0
45	GRAT SUP2	PX	-0.006	-0.006	0	0



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
46	PL1	PX	-0.021	-0.021	0	0
47	SO2	PX	-0.008	-0.008	0	0
48	GRAT SUP3	PX	-0.006	-0.006	0	0
49	GRAT SUP4	PX	-0.006	-0.006	0	0
50	PL2	PX	-0.021	-0.021	0	0
51	SO3	PX	-0.008	-0.008	0	0
52	GRAT SUP5	PX	-0.006	-0.006	0	0
53	GRAT SUP6	PX	-0.006	-0.006	0	0
54	PL3	PX	-0.021	-0.021	0	0
55	FACE1	PX	-0.004	-0.004	0	0
56	MP ALPHA1	PX	-0.009	-0.009	0	0
57	MP ALPHA3	PX	-0.009	-0.009	0	0
58	RAIL1	PX	-0.003	-0.003	0	0
59	RAIL CON3	PX	-0.021	-0.021	0	0
60	RAIL CON1	PX	-0.021	-0.021	0	0
61	RAIL CON2	PX	-0.021	-0.021	0	0
62	CR1	PX	-0.011	-0.011	0	0
63	CR2	PX	-0.011	-0.011	0	0
64	CR3	PX	-0.011	-0.011	0	0
65	CR4	PX	-0.011	-0.011	0	0
66	CR5	PX	-0.011	-0.011	0	0
67	CR6	PX	-0.011	-0.011	0	0
68	PL4	PX	-0.008	-0.008	0	0
69	PL5	PX	-0.008	-0.008	0	0
70	PL6	PX	-0.008	-0.008	0	0
71	PL7	PX	-0.008	-0.008	0	0
72	PL8	PX	-0.008	-0.008	0	0
73	PL9	PX	-0.008	-0.008	0	0
74	MP ALPHA2	PX	-0.009	-0.009	0	0
75	FACE3	PX	-0.008	-0.008	0	0
76	MP GAMMA1	PX	-0.009	-0.009	0	0
77	MP GAMMA3	PX	-0.009	-0.009	0	0
78	RAIL3	PX	-0.005	-0.005	0	0
79	FACE2	PX	-0.008	-0.008	0	0
80	MP BETA1	PX	-0.009	-0.009	0	0
81	MP BETA3	PX	-0.009	-0.009	0	0
82	RAIL2	PX	-0.005	-0.005	0	0
83	MP BETA2	PX	-0.009	-0.009	0	0
84	MP GAMMA2	PX	-0.009	-0.009	0	0
85	M68B	PY	-0.004	-0.004	0	0
86	M68B	PX	-0.008	-0.008	0	0
87	M70A	PY	-0.004	-0.004	0	0
88	M70A	PX	-0.008	-0.008	0	0
89	M72A	PY	-0.004	-0.004	0	0
90	M72A	PX	-0.008	-0.008	0	0
91	M74A	PY	-0.004	-0.004	0	0
92	M74A	PX	-0.008	-0.008	0	0
93	M76	PY	-0.004	-0.004	0	0
94	M76	PX	-0.008	-0.008	0	0
95	M78	PY	-0.004	-0.004	0	0
96	M78	PX	-0.008	-0.008	0	0

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	SO1	PX	-0.009	-0.009	0	0
2	GRAT SUP	PX	-0.007	-0.007	0	0

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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]	
3	GRAT SUP2	PX	-0.007	-0.007	0	0
4	PL1	PX	-0.024	-0.024	0	0
5	SO2	PX	-0.009	-0.009	0	0
6	GRAT SUP3	PX	-0.007	-0.007	0	0
7	GRAT SUP4	PX	-0.007	-0.007	0	0
8	PL2	PX	-0.024	-0.024	0	0
9	SO3	PX	-0.009	-0.009	0	0
10	GRAT SUP5	PX	-0.007	-0.007	0	0
11	GRAT SUP6	PX	-0.007	-0.007	0	0
12	PL3	PX	-0.024	-0.024	0	0
13	FACE2	PX	-0.004	-0.004	0	0
14	MP ALPHA1	PX	-0.011	-0.011	0	0
15	MP ALPHA3	PX	-0.011	-0.011	0	0
16	RAIL2	PX	-0.003	-0.003	0	0
17	RAIL CON3	PX	-0.025	-0.025	0	0
18	RAIL CON1	PX	-0.025	-0.025	0	0
19	RAIL CON2	PX	-0.025	-0.025	0	0
20	CR1	PX	-0.013	-0.013	0	0
21	CR2	PX	-0.013	-0.013	0	0
22	CR3	PX	-0.013	-0.013	0	0
23	CR4	PX	-0.013	-0.013	0	0
24	CR5	PX	-0.013	-0.013	0	0
25	CR6	PX	-0.013	-0.013	0	0
26	PL4	PX	-0.009	-0.009	0	0
27	PL5	PX	-0.009	-0.009	0	0
28	PL6	PX	-0.009	-0.009	0	0
29	PL7	PX	-0.009	-0.009	0	0
30	PL8	PX	-0.009	-0.009	0	0
31	PL9	PX	-0.009	-0.009	0	0
32	MP ALPHA2	PX	-0.011	-0.011	0	0
33	FACE3	PX	-0.009	-0.009	0	0
34	MP GAMMA1	PX	-0.011	-0.011	0	0
35	MP GAMMA3	PX	-0.011	-0.011	0	0
36	RAIL3	PX	-0.006	-0.006	0	0
37	FACE1	PX	-0.009	-0.009	0	0
38	MP BETA1	PX	-0.011	-0.011	0	0
39	MP BETA3	PX	-0.011	-0.011	0	0
40	RAIL1	PX	-0.006	-0.006	0	0
41	MP BETA2	PX	-0.011	-0.011	0	0
42	MP GAMMA2	PX	-0.011	-0.011	0	0
43	M68B	PX	-0.009	-0.009	0	0
44	M70A	PX	-0.009	-0.009	0	0
45	M72A	PX	-0.009	-0.009	0	0
46	M74A	PX	-0.009	-0.009	0	0
47	M76	PX	-0.009	-0.009	0	0
48	M78	PX	-0.009	-0.009	0	0

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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/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	.012	.012	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



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
8	PL2	PY	.012	.012	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	.012	.012	0	0
13	FACE2	PY	.002	.002	0	0
14	MP ALPHA1	PY	.005	.005	0	0
15	MP ALPHA3	PY	.005	.005	0	0
16	RAIL2	PY	.002	.002	0	0
17	RAIL CON3	PY	.012	.012	0	0
18	RAIL CON1	PY	.012	.012	0	0
19	RAIL CON2	PY	.012	.012	0	0
20	CR1	PY	.006	.006	0	0
21	CR2	PY	.006	.006	0	0
22	CR3	PY	.006	.006	0	0
23	CR4	PY	.006	.006	0	0
24	CR5	PY	.006	.006	0	0
25	CR6	PY	.006	.006	0	0
26	PL4	PY	.004	.004	0	0
27	PL5	PY	.004	.004	0	0
28	PL6	PY	.004	.004	0	0
29	PL7	PY	.004	.004	0	0
30	PL8	PY	.004	.004	0	0
31	PL9	PY	.004	.004	0	0
32	MP ALPHA2	PY	.005	.005	0	0
33	FACE3	PY	.004	.004	0	0
34	MP GAMMA1	PY	.005	.005	0	0
35	MP GAMMA3	PY	.005	.005	0	0
36	RAIL3	PY	.003	.003	0	0
37	FACE1	PY	.004	.004	0	0
38	MP BETA1	PY	.005	.005	0	0
39	MP BETA3	PY	.005	.005	0	0
40	RAIL1	PY	.003	.003	0	0
41	MP BETA2	PY	.005	.005	0	0
42	MP GAMMA2	PY	.005	.005	0	0
43	SO1	PX	-.008	-.008	0	0
44	GRAT SUP	PX	-.006	-.006	0	0
45	GRAT SUP2	PX	-.006	-.006	0	0
46	PL1	PX	-.021	-.021	0	0
47	SO2	PX	-.008	-.008	0	0
48	GRAT SUP3	PX	-.006	-.006	0	0
49	GRAT SUP4	PX	-.006	-.006	0	0
50	PL2	PX	-.021	-.021	0	0
51	SO3	PX	-.008	-.008	0	0
52	GRAT SUP5	PX	-.006	-.006	0	0
53	GRAT SUP6	PX	-.006	-.006	0	0
54	PL3	PX	-.021	-.021	0	0
55	FACE2	PX	-.004	-.004	0	0
56	MP ALPHA1	PX	-.009	-.009	0	0
57	MP ALPHA3	PX	-.009	-.009	0	0
58	RAIL2	PX	-.003	-.003	0	0
59	RAIL CON3	PX	-.021	-.021	0	0
60	RAIL CON1	PX	-.021	-.021	0	0
61	RAIL CON2	PX	-.021	-.021	0	0
62	CR1	PX	-.011	-.011	0	0
63	CR2	PX	-.011	-.011	0	0
64	CR3	PX	-.011	-.011	0	0



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
65	CR4	PX	-.011	-.011	0	0
66	CR5	PX	-.011	-.011	0	0
67	CR6	PX	-.011	-.011	0	0
68	PL4	PX	-.008	-.008	0	0
69	PL5	PX	-.008	-.008	0	0
70	PL6	PX	-.008	-.008	0	0
71	PL7	PX	-.008	-.008	0	0
72	PL8	PX	-.008	-.008	0	0
73	PL9	PX	-.008	-.008	0	0
74	MP ALPHA2	PX	-.009	-.009	0	0
75	FACE3	PX	-.008	-.008	0	0
76	MP GAMMA1	PX	-.009	-.009	0	0
77	MP GAMMA3	PX	-.009	-.009	0	0
78	RAIL3	PX	-.005	-.005	0	0
79	FACE1	PX	-.008	-.008	0	0
80	MP BETA1	PX	-.009	-.009	0	0
81	MP BETA3	PX	-.009	-.009	0	0
82	RAIL1	PX	-.005	-.005	0	0
83	MP BETA2	PX	-.009	-.009	0	0
84	MP GAMMA2	PX	-.009	-.009	0	0
85	M68B	PY	.004	.004	0	0
86	M68B	PX	-.008	-.008	0	0
87	M70A	PY	.004	.004	0	0
88	M70A	PX	-.008	-.008	0	0
89	M72A	PY	.004	.004	0	0
90	M72A	PX	-.008	-.008	0	0
91	M74A	PY	.004	.004	0	0
92	M74A	PX	-.008	-.008	0	0
93	M76	PY	.004	.004	0	0
94	M76	PX	-.008	-.008	0	0
95	M78	PY	.004	.004	0	0
96	M78	PX	-.008	-.008	0	0

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	SO1	PY	.008	.008	0	0
2	GRAT SUP	PY	.006	.006	0	0
3	GRAT SUP2	PY	.006	.006	0	0
4	PL1	PY	.021	.021	0	0
5	SO2	PY	.008	.008	0	0
6	GRAT SUP3	PY	.006	.006	0	0
7	GRAT SUP4	PY	.006	.006	0	0
8	PL2	PY	.021	.021	0	0
9	SO3	PY	.008	.008	0	0
10	GRAT SUP5	PY	.006	.006	0	0
11	GRAT SUP6	PY	.006	.006	0	0
12	PL3	PY	.021	.021	0	0
13	FACE2	PY	.004	.004	0	0
14	MP ALPHA1	PY	.009	.009	0	0
15	MP ALPHA3	PY	.009	.009	0	0
16	RAIL2	PY	.003	.003	0	0
17	RAIL CON3	PY	.021	.021	0	0
18	RAIL CON1	PY	.021	.021	0	0
19	RAIL CON2	PY	.021	.021	0	0
20	CR1	PY	.011	.011	0	0
21	CR2	PY	.011	.011	0	0



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]	
22	CR3	PY	.011	.011	0	0
23	CR4	PY	.011	.011	0	0
24	CR5	PY	.011	.011	0	0
25	CR6	PY	.011	.011	0	0
26	PL4	PY	.008	.008	0	0
27	PL5	PY	.008	.008	0	0
28	PL6	PY	.008	.008	0	0
29	PL7	PY	.008	.008	0	0
30	PL8	PY	.008	.008	0	0
31	PL9	PY	.008	.008	0	0
32	MP ALPHA2	PY	.009	.009	0	0
33	FACE3	PY	.008	.008	0	0
34	MP GAMMA1	PY	.009	.009	0	0
35	MP GAMMA3	PY	.009	.009	0	0
36	RAIL3	PY	.005	.005	0	0
37	FACE1	PY	.008	.008	0	0
38	MP BETA1	PY	.009	.009	0	0
39	MP BETA3	PY	.009	.009	0	0
40	RAIL1	PY	.005	.005	0	0
41	MP BETA2	PY	.009	.009	0	0
42	MP GAMMA2	PY	.009	.009	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	-.012	-.012	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	-.012	-.012	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	-.012	-.012	0	0
55	FACE2	PX	-.002	-.002	0	0
56	MP ALPHA1	PX	-.005	-.005	0	0
57	MP ALPHA3	PX	-.005	-.005	0	0
58	RAIL2	PX	-.002	-.002	0	0
59	RAIL CON3	PX	-.012	-.012	0	0
60	RAIL CON1	PX	-.012	-.012	0	0
61	RAIL CON2	PX	-.012	-.012	0	0
62	CR1	PX	-.006	-.006	0	0
63	CR2	PX	-.006	-.006	0	0
64	CR3	PX	-.006	-.006	0	0
65	CR4	PX	-.006	-.006	0	0
66	CR5	PX	-.006	-.006	0	0
67	CR6	PX	-.006	-.006	0	0
68	PL4	PX	-.004	-.004	0	0
69	PL5	PX	-.004	-.004	0	0
70	PL6	PX	-.004	-.004	0	0
71	PL7	PX	-.004	-.004	0	0
72	PL8	PX	-.004	-.004	0	0
73	PL9	PX	-.004	-.004	0	0
74	MP ALPHA2	PX	-.005	-.005	0	0
75	FACE3	PX	-.004	-.004	0	0
76	MP GAMMA1	PX	-.005	-.005	0	0
77	MP GAMMA3	PX	-.005	-.005	0	0
78	RAIL3	PX	-.003	-.003	0	0



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
79	FACE1	PX	-.004	-.004	0	0
80	MP BETA1	PX	-.005	-.005	0	0
81	MP BETA3	PX	-.005	-.005	0	0
82	RAIL1	PX	-.003	-.003	0	0
83	MP BETA2	PX	-.005	-.005	0	0
84	MP GAMMA2	PX	-.005	-.005	0	0
85	M68B	PY	.008	.008	0	0
86	M68B	PX	-.004	-.004	0	0
87	M70A	PY	.008	.008	0	0
88	M70A	PX	-.004	-.004	0	0
89	M72A	PY	.008	.008	0	0
90	M72A	PX	-.004	-.004	0	0
91	M74A	PY	.008	.008	0	0
92	M74A	PX	-.004	-.004	0	0
93	M76	PY	.008	.008	0	0
94	M76	PX	-.004	-.004	0	0
95	M78	PY	.008	.008	0	0
96	M78	PX	-.004	-.004	0	0

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	SO1	PY	.009	.009	0	0
2	GRAT SUP	PY	.007	.007	0	0
3	GRAT SUP2	PY	.007	.007	0	0
4	PL1	PY	.024	.024	0	0
5	SO2	PY	.009	.009	0	0
6	GRAT SUP3	PY	.007	.007	0	0
7	GRAT SUP4	PY	.007	.007	0	0
8	PL2	PY	.024	.024	0	0
9	SO3	PY	.009	.009	0	0
10	GRAT SUP5	PY	.007	.007	0	0
11	GRAT SUP6	PY	.007	.007	0	0
12	PL3	PY	.024	.024	0	0
13	FACE2	PY	.004	.004	0	0
14	MP ALPHA1	PY	.011	.011	0	0
15	MP ALPHA3	PY	.011	.011	0	0
16	RAIL2	PY	.003	.003	0	0
17	RAIL CON3	PY	.025	.025	0	0
18	RAIL CON1	PY	.025	.025	0	0
19	RAIL CON2	PY	.025	.025	0	0
20	CR1	PY	.013	.013	0	0
21	CR2	PY	.013	.013	0	0
22	CR3	PY	.013	.013	0	0
23	CR4	PY	.013	.013	0	0
24	CR5	PY	.013	.013	0	0
25	CR6	PY	.013	.013	0	0
26	PL4	PY	.009	.009	0	0
27	PL5	PY	.009	.009	0	0
28	PL6	PY	.009	.009	0	0
29	PL7	PY	.009	.009	0	0
30	PL8	PY	.009	.009	0	0
31	PL9	PY	.009	.009	0	0
32	MP ALPHA2	PY	.011	.011	0	0
33	FACE3	PY	.009	.009	0	0
34	MP GAMMA1	PY	.011	.011	0	0
35	MP GAMMA3	PY	.011	.011	0	0



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
36	RAIL3	PY	.006	.006	0	0
37	FACE1	PY	.009	.009	0	0
38	MP BETA1	PY	.011	.011	0	0
39	MP BETA3	PY	.011	.011	0	0
40	RAIL1	PY	.006	.006	0	0
41	MP BETA2	PY	.011	.011	0	0
42	MP GAMMA2	PY	.011	.011	0	0
43	M68B	PY	.009	.009	0	0
44	M70A	PY	.009	.009	0	0
45	M72A	PY	.009	.009	0	0
46	M74A	PY	.009	.009	0	0
47	M76	PY	.009	.009	0	0
48	M78	PY	.009	.009	0	0

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	SO1	PY	.008	.008	0	0
2	GRAT SUP	PY	.006	.006	0	0
3	GRAT SUP2	PY	.006	.006	0	0
4	PL1	PY	.021	.021	0	0
5	SO2	PY	.008	.008	0	0
6	GRAT SUP3	PY	.006	.006	0	0
7	GRAT SUP4	PY	.006	.006	0	0
8	PL2	PY	.021	.021	0	0
9	SO3	PY	.008	.008	0	0
10	GRAT SUP5	PY	.006	.006	0	0
11	GRAT SUP6	PY	.006	.006	0	0
12	PL3	PY	.021	.021	0	0
13	FACE3	PY	.004	.004	0	0
14	MP ALPHA1	PY	.009	.009	0	0
15	MP ALPHA3	PY	.009	.009	0	0
16	RAIL3	PY	.003	.003	0	0
17	RAIL CON3	PY	.021	.021	0	0
18	RAIL CON1	PY	.021	.021	0	0
19	RAIL CON2	PY	.021	.021	0	0
20	CR1	PY	.011	.011	0	0
21	CR2	PY	.011	.011	0	0
22	CR3	PY	.011	.011	0	0
23	CR4	PY	.011	.011	0	0
24	CR5	PY	.011	.011	0	0
25	CR6	PY	.011	.011	0	0
26	PL4	PY	.008	.008	0	0
27	PL5	PY	.008	.008	0	0
28	PL6	PY	.008	.008	0	0
29	PL7	PY	.008	.008	0	0
30	PL8	PY	.008	.008	0	0
31	PL9	PY	.008	.008	0	0
32	MP ALPHA2	PY	.009	.009	0	0
33	FACE1	PY	.008	.008	0	0
34	MP GAMMA1	PY	.009	.009	0	0
35	MP GAMMA3	PY	.009	.009	0	0
36	RAIL1	PY	.005	.005	0	0
37	FACE2	PY	.008	.008	0	0
38	MP BETA1	PY	.009	.009	0	0
39	MP BETA3	PY	.009	.009	0	0
40	RAIL2	PY	.005	.005	0	0



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]	
41	MP BETA2	PY	.009	.009	0	0
42	MP GAMMA2	PY	.009	.009	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	.012	.012	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	.012	.012	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	.012	.012	0	0
55	FACE3	PX	.002	.002	0	0
56	MP ALPHA1	PX	.005	.005	0	0
57	MP ALPHA3	PX	.005	.005	0	0
58	RAIL3	PX	.002	.002	0	0
59	RAIL CON3	PX	.012	.012	0	0
60	RAIL CON1	PX	.012	.012	0	0
61	RAIL CON2	PX	.012	.012	0	0
62	CR1	PX	.006	.006	0	0
63	CR2	PX	.006	.006	0	0
64	CR3	PX	.006	.006	0	0
65	CR4	PX	.006	.006	0	0
66	CR5	PX	.006	.006	0	0
67	CR6	PX	.006	.006	0	0
68	PL4	PX	.004	.004	0	0
69	PL5	PX	.004	.004	0	0
70	PL6	PX	.004	.004	0	0
71	PL7	PX	.004	.004	0	0
72	PL8	PX	.004	.004	0	0
73	PL9	PX	.004	.004	0	0
74	MP ALPHA2	PX	.005	.005	0	0
75	FACE1	PX	.004	.004	0	0
76	MP GAMMA1	PX	.005	.005	0	0
77	MP GAMMA3	PX	.005	.005	0	0
78	RAIL1	PX	.003	.003	0	0
79	FACE2	PX	.004	.004	0	0
80	MP BETA1	PX	.005	.005	0	0
81	MP BETA3	PX	.005	.005	0	0
82	RAIL2	PX	.003	.003	0	0
83	MP BETA2	PX	.005	.005	0	0
84	MP GAMMA2	PX	.005	.005	0	0
85	M68B	PY	.008	.008	0	0
86	M68B	PX	.004	.004	0	0
87	M70A	PY	.008	.008	0	0
88	M70A	PX	.004	.004	0	0
89	M72A	PY	.008	.008	0	0
90	M72A	PX	.004	.004	0	0
91	M74A	PY	.008	.008	0	0
92	M74A	PX	.004	.004	0	0
93	M76	PY	.008	.008	0	0
94	M76	PX	.004	.004	0	0
95	M78	PY	.008	.008	0	0
96	M78	PX	.004	.004	0	0



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/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	.012	.012	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	.012	.012	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	.012	.012	0	0
13	FACE3	PY	.002	.002	0	0
14	MP ALPHA1	PY	.005	.005	0	0
15	MP ALPHA3	PY	.005	.005	0	0
16	RAIL3	PY	.002	.002	0	0
17	RAIL CON3	PY	.012	.012	0	0
18	RAIL CON1	PY	.012	.012	0	0
19	RAIL CON2	PY	.012	.012	0	0
20	CR1	PY	.006	.006	0	0
21	CR2	PY	.006	.006	0	0
22	CR3	PY	.006	.006	0	0
23	CR4	PY	.006	.006	0	0
24	CR5	PY	.006	.006	0	0
25	CR6	PY	.006	.006	0	0
26	PL4	PY	.004	.004	0	0
27	PL5	PY	.004	.004	0	0
28	PL6	PY	.004	.004	0	0
29	PL7	PY	.004	.004	0	0
30	PL8	PY	.004	.004	0	0
31	PL9	PY	.004	.004	0	0
32	MP ALPHA2	PY	.005	.005	0	0
33	FACE1	PY	.004	.004	0	0
34	MP GAMMA1	PY	.005	.005	0	0
35	MP GAMMA3	PY	.005	.005	0	0
36	RAIL1	PY	.003	.003	0	0
37	FACE2	PY	.004	.004	0	0
38	MP BETA1	PY	.005	.005	0	0
39	MP BETA3	PY	.005	.005	0	0
40	RAIL2	PY	.003	.003	0	0
41	MP BETA2	PY	.005	.005	0	0
42	MP GAMMA2	PY	.005	.005	0	0
43	SO1	PX	.008	.008	0	0
44	GRAT SUP	PX	.006	.006	0	0
45	GRAT SUP2	PX	.006	.006	0	0
46	PL1	PX	.021	.021	0	0
47	SO2	PX	.008	.008	0	0
48	GRAT SUP3	PX	.006	.006	0	0
49	GRAT SUP4	PX	.006	.006	0	0
50	PL2	PX	.021	.021	0	0
51	SO3	PX	.008	.008	0	0
52	GRAT SUP5	PX	.006	.006	0	0
53	GRAT SUP6	PX	.006	.006	0	0
54	PL3	PX	.021	.021	0	0
55	FACE3	PX	.004	.004	0	0
56	MP ALPHA1	PX	.009	.009	0	0
57	MP ALPHA3	PX	.009	.009	0	0



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
58	RAIL3	PX	.003	.003	0	0
59	RAIL CON3	PX	.021	.021	0	0
60	RAIL CON1	PX	.021	.021	0	0
61	RAIL CON2	PX	.021	.021	0	0
62	CR1	PX	.011	.011	0	0
63	CR2	PX	.011	.011	0	0
64	CR3	PX	.011	.011	0	0
65	CR4	PX	.011	.011	0	0
66	CR5	PX	.011	.011	0	0
67	CR6	PX	.011	.011	0	0
68	PL4	PX	.008	.008	0	0
69	PL5	PX	.008	.008	0	0
70	PL6	PX	.008	.008	0	0
71	PL7	PX	.008	.008	0	0
72	PL8	PX	.008	.008	0	0
73	PL9	PX	.008	.008	0	0
74	MP ALPHA2	PX	.009	.009	0	0
75	FACE1	PX	.008	.008	0	0
76	MP GAMMA1	PX	.009	.009	0	0
77	MP GAMMA3	PX	.009	.009	0	0
78	RAIL1	PX	.005	.005	0	0
79	FACE2	PX	.008	.008	0	0
80	MP BETA1	PX	.009	.009	0	0
81	MP BETA3	PX	.009	.009	0	0
82	RAIL2	PX	.005	.005	0	0
83	MP BETA2	PX	.009	.009	0	0
84	MP GAMMA2	PX	.009	.009	0	0
85	M68B	PY	.004	.004	0	0
86	M68B	PX	.008	.008	0	0
87	M70A	PY	.004	.004	0	0
88	M70A	PX	.008	.008	0	0
89	M72A	PY	.004	.004	0	0
90	M72A	PX	.008	.008	0	0
91	M74A	PY	.004	.004	0	0
92	M74A	PX	.008	.008	0	0
93	M76	PY	.004	.004	0	0
94	M76	PX	.008	.008	0	0
95	M78	PY	.004	.004	0	0
96	M78	PX	.008	.008	0	0

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	SO1	PX	.009	.009	0	0
2	GRAT SUP	PX	.007	.007	0	0
3	GRAT SUP2	PX	.007	.007	0	0
4	PL1	PX	.024	.024	0	0
5	SO2	PX	.009	.009	0	0
6	GRAT SUP3	PX	.007	.007	0	0
7	GRAT SUP4	PX	.007	.007	0	0
8	PL2	PX	.024	.024	0	0
9	SO3	PX	.009	.009	0	0
10	GRAT SUP5	PX	.007	.007	0	0
11	GRAT SUP6	PX	.007	.007	0	0
12	PL3	PX	.024	.024	0	0
13	FACE3	PX	.004	.004	0	0
14	MP ALPHA1	PX	.011	.011	0	0



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
15	MP ALPHA3	PX	.011	.011	0	0
16	RAIL3	PX	.003	.003	0	0
17	RAIL CON3	PX	.025	.025	0	0
18	RAIL CON1	PX	.025	.025	0	0
19	RAIL CON2	PX	.025	.025	0	0
20	CR1	PX	.013	.013	0	0
21	CR2	PX	.013	.013	0	0
22	CR3	PX	.013	.013	0	0
23	CR4	PX	.013	.013	0	0
24	CR5	PX	.013	.013	0	0
25	CR6	PX	.013	.013	0	0
26	PL4	PX	.009	.009	0	0
27	PL5	PX	.009	.009	0	0
28	PL6	PX	.009	.009	0	0
29	PL7	PX	.009	.009	0	0
30	PL8	PX	.009	.009	0	0
31	PL9	PX	.009	.009	0	0
32	MP ALPHA2	PX	.011	.011	0	0
33	FACE1	PX	.009	.009	0	0
34	MP GAMMA1	PX	.011	.011	0	0
35	MP GAMMA3	PX	.011	.011	0	0
36	RAIL1	PX	.006	.006	0	0
37	FACE2	PX	.009	.009	0	0
38	MP BETA1	PX	.011	.011	0	0
39	MP BETA3	PX	.011	.011	0	0
40	RAIL2	PX	.006	.006	0	0
41	MP BETA2	PX	.011	.011	0	0
42	MP GAMMA2	PX	.011	.011	0	0
43	M68B	PX	.009	.009	0	0
44	M70A	PX	.009	.009	0	0
45	M72A	PX	.009	.009	0	0
46	M74A	PX	.009	.009	0	0
47	M76	PX	.009	.009	0	0
48	M78	PX	.009	.009	0	0

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/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	-.012	-.012	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	-.012	-.012	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	-.012	-.012	0	0
13	FACE3	PY	-.002	-.002	0	0
14	MP ALPHA1	PY	-.005	-.005	0	0
15	MP ALPHA3	PY	-.005	-.005	0	0
16	RAIL3	PY	-.002	-.002	0	0
17	RAIL CON3	PY	-.012	-.012	0	0
18	RAIL CON1	PY	-.012	-.012	0	0
19	RAIL CON2	PY	-.012	-.012	0	0



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]	
20	CR1	PY	-0.006	-0.006	0	0
21	CR2	PY	-0.006	-0.006	0	0
22	CR3	PY	-0.006	-0.006	0	0
23	CR4	PY	-0.006	-0.006	0	0
24	CR5	PY	-0.006	-0.006	0	0
25	CR6	PY	-0.006	-0.006	0	0
26	PL4	PY	-0.004	-0.004	0	0
27	PL5	PY	-0.004	-0.004	0	0
28	PL6	PY	-0.004	-0.004	0	0
29	PL7	PY	-0.004	-0.004	0	0
30	PL8	PY	-0.004	-0.004	0	0
31	PL9	PY	-0.004	-0.004	0	0
32	MP ALPHA2	PY	-0.005	-0.005	0	0
33	FACE1	PY	-0.004	-0.004	0	0
34	MP GAMMA1	PY	-0.005	-0.005	0	0
35	MP GAMMA3	PY	-0.005	-0.005	0	0
36	RAIL1	PY	-0.003	-0.003	0	0
37	FACE2	PY	-0.004	-0.004	0	0
38	MP BETA1	PY	-0.005	-0.005	0	0
39	MP BETA3	PY	-0.005	-0.005	0	0
40	RAIL2	PY	-0.003	-0.003	0	0
41	MP BETA2	PY	-0.005	-0.005	0	0
42	MP GAMMA2	PY	-0.005	-0.005	0	0
43	SO1	PX	.008	.008	0	0
44	GRAT SUP	PX	.006	.006	0	0
45	GRAT SUP2	PX	.006	.006	0	0
46	PL1	PX	.021	.021	0	0
47	SO2	PX	.008	.008	0	0
48	GRAT SUP3	PX	.006	.006	0	0
49	GRAT SUP4	PX	.006	.006	0	0
50	PL2	PX	.021	.021	0	0
51	SO3	PX	.008	.008	0	0
52	GRAT SUP5	PX	.006	.006	0	0
53	GRAT SUP6	PX	.006	.006	0	0
54	PL3	PX	.021	.021	0	0
55	FACE3	PX	.004	.004	0	0
56	MP ALPHA1	PX	.009	.009	0	0
57	MP ALPHA3	PX	.009	.009	0	0
58	RAIL3	PX	.003	.003	0	0
59	RAIL CON3	PX	.021	.021	0	0
60	RAIL CON1	PX	.021	.021	0	0
61	RAIL CON2	PX	.021	.021	0	0
62	CR1	PX	.011	.011	0	0
63	CR2	PX	.011	.011	0	0
64	CR3	PX	.011	.011	0	0
65	CR4	PX	.011	.011	0	0
66	CR5	PX	.011	.011	0	0
67	CR6	PX	.011	.011	0	0
68	PL4	PX	.008	.008	0	0
69	PL5	PX	.008	.008	0	0
70	PL6	PX	.008	.008	0	0
71	PL7	PX	.008	.008	0	0
72	PL8	PX	.008	.008	0	0
73	PL9	PX	.008	.008	0	0
74	MP ALPHA2	PX	.009	.009	0	0
75	FACE1	PX	.008	.008	0	0
76	MP GAMMA1	PX	.009	.009	0	0



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
77	MP GAMMA3	PX	.009	.009	0	0
78	RAIL1	PX	.005	.005	0	0
79	FACE2	PX	.008	.008	0	0
80	MP BETA1	PX	.009	.009	0	0
81	MP BETA3	PX	.009	.009	0	0
82	RAIL2	PX	.005	.005	0	0
83	MP BETA2	PX	.009	.009	0	0
84	MP GAMMA2	PX	.009	.009	0	0
85	M68B	PY	-.004	-.004	0	0
86	M68B	PX	.008	.008	0	0
87	M70A	PY	-.004	-.004	0	0
88	M70A	PX	.008	.008	0	0
89	M72A	PY	-.004	-.004	0	0
90	M72A	PX	.008	.008	0	0
91	M74A	PY	-.004	-.004	0	0
92	M74A	PX	.008	.008	0	0
93	M76	PY	-.004	-.004	0	0
94	M76	PX	.008	.008	0	0
95	M78	PY	-.004	-.004	0	0
96	M78	PX	.008	.008	0	0

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	SO1	PY	-.008	-.008	0	0
2	GRAT SUP	PY	-.006	-.006	0	0
3	GRAT SUP2	PY	-.006	-.006	0	0
4	PL1	PY	-.021	-.021	0	0
5	SO2	PY	-.008	-.008	0	0
6	GRAT SUP3	PY	-.006	-.006	0	0
7	GRAT SUP4	PY	-.006	-.006	0	0
8	PL2	PY	-.021	-.021	0	0
9	SO3	PY	-.008	-.008	0	0
10	GRAT SUP5	PY	-.006	-.006	0	0
11	GRAT SUP6	PY	-.006	-.006	0	0
12	PL3	PY	-.021	-.021	0	0
13	FACE1	PY	-.004	-.004	0	0
14	MP ALPHA1	PY	-.009	-.009	0	0
15	MP ALPHA3	PY	-.009	-.009	0	0
16	RAIL1	PY	-.003	-.003	0	0
17	RAIL CON3	PY	-.021	-.021	0	0
18	RAIL CON1	PY	-.021	-.021	0	0
19	RAIL CON2	PY	-.021	-.021	0	0
20	CR1	PY	-.011	-.011	0	0
21	CR2	PY	-.011	-.011	0	0
22	CR3	PY	-.011	-.011	0	0
23	CR4	PY	-.011	-.011	0	0
24	CR5	PY	-.011	-.011	0	0
25	CR6	PY	-.011	-.011	0	0
26	PL4	PY	-.008	-.008	0	0
27	PL5	PY	-.008	-.008	0	0
28	PL6	PY	-.008	-.008	0	0
29	PL7	PY	-.008	-.008	0	0
30	PL8	PY	-.008	-.008	0	0
31	PL9	PY	-.008	-.008	0	0
32	MP ALPHA2	PY	-.009	-.009	0	0
33	FACE3	PY	-.008	-.008	0	0



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]	
34	MP GAMMA1	PY	-.009	-.009	0	0
35	MP GAMMA3	PY	-.009	-.009	0	0
36	RAIL3	PY	-.005	-.005	0	0
37	FACE2	PY	-.008	-.008	0	0
38	MP BETA1	PY	-.009	-.009	0	0
39	MP BETA3	PY	-.009	-.009	0	0
40	RAIL2	PY	-.005	-.005	0	0
41	MP BETA2	PY	-.009	-.009	0	0
42	MP GAMMA2	PY	-.009	-.009	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	.012	.012	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	.012	.012	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	.012	.012	0	0
55	FACE1	PX	.002	.002	0	0
56	MP ALPHA1	PX	.005	.005	0	0
57	MP ALPHA3	PX	.005	.005	0	0
58	RAIL1	PX	.002	.002	0	0
59	RAIL CON3	PX	.012	.012	0	0
60	RAIL CON1	PX	.012	.012	0	0
61	RAIL CON2	PX	.012	.012	0	0
62	CR1	PX	.006	.006	0	0
63	CR2	PX	.006	.006	0	0
64	CR3	PX	.006	.006	0	0
65	CR4	PX	.006	.006	0	0
66	CR5	PX	.006	.006	0	0
67	CR6	PX	.006	.006	0	0
68	PL4	PX	.004	.004	0	0
69	PL5	PX	.004	.004	0	0
70	PL6	PX	.004	.004	0	0
71	PL7	PX	.004	.004	0	0
72	PL8	PX	.004	.004	0	0
73	PL9	PX	.004	.004	0	0
74	MP ALPHA2	PX	.005	.005	0	0
75	FACE3	PX	.004	.004	0	0
76	MP GAMMA1	PX	.005	.005	0	0
77	MP GAMMA3	PX	.005	.005	0	0
78	RAIL3	PX	.003	.003	0	0
79	FACE2	PX	.004	.004	0	0
80	MP BETA1	PX	.005	.005	0	0
81	MP BETA3	PX	.005	.005	0	0
82	RAIL2	PX	.003	.003	0	0
83	MP BETA2	PX	.005	.005	0	0
84	MP GAMMA2	PX	.005	.005	0	0
85	M68B	PY	-.008	-.008	0	0
86	M68B	PX	.004	.004	0	0
87	M70A	PY	-.008	-.008	0	0
88	M70A	PX	.004	.004	0	0
89	M72A	PY	-.008	-.008	0	0
90	M72A	PX	.004	.004	0	0



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
91	M74A	PY	-.008	-.008	0	0
92	M74A	PX	.004	.004	0	0
93	M76	PY	-.008	-.008	0	0
94	M76	PX	.004	.004	0	0
95	M78	PY	-.008	-.008	0	0
96	M78	PX	.004	.004	0	0

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	SO1	PY	-.000564	-.000564	0	0
2	GRAT SUP	PY	-.000452	-.000452	0	0
3	GRAT SUP2	PY	-.000452	-.000452	0	0
4	PL1	PY	-.001	-.001	0	0
5	SO2	PY	-.000564	-.000564	0	0
6	GRAT SUP3	PY	-.000452	-.000452	0	0
7	GRAT SUP4	PY	-.000452	-.000452	0	0
8	PL2	PY	-.001	-.001	0	0
9	SO3	PY	-.000564	-.000564	0	0
10	GRAT SUP5	PY	-.000452	-.000452	0	0
11	GRAT SUP6	PY	-.000452	-.000452	0	0
12	PL3	PY	-.001	-.001	0	0
13	FACE1	PY	-.000271	-.000271	0	0
14	MP ALPHA1	PY	-.000643	-.000643	0	0
15	MP ALPHA3	PY	-.000643	-.000643	0	0
16	RAIL1	PY	-.000189	-.000189	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	-.000763	-.000763	0	0
21	CR2	PY	-.000763	-.000763	0	0
22	CR3	PY	-.000763	-.000763	0	0
23	CR4	PY	-.000763	-.000763	0	0
24	CR5	PY	-.000763	-.000763	0	0
25	CR6	PY	-.000763	-.000763	0	0
26	PL4	PY	-.000536	-.000536	0	0
27	PL5	PY	-.000536	-.000536	0	0
28	PL6	PY	-.000536	-.000536	0	0
29	PL7	PY	-.000536	-.000536	0	0
30	PL8	PY	-.000536	-.000536	0	0
31	PL9	PY	-.000536	-.000536	0	0
32	MP ALPHA2	PY	-.000643	-.000643	0	0
33	FACE3	PY	-.000542	-.000542	0	0
34	MP GAMMA1	PY	-.000643	-.000643	0	0
35	MP GAMMA3	PY	-.000643	-.000643	0	0
36	RAIL3	PY	-.000378	-.000378	0	0
37	FACE2	PY	-.000542	-.000542	0	0
38	MP BETA1	PY	-.000643	-.000643	0	0
39	MP BETA3	PY	-.000643	-.000643	0	0
40	RAIL2	PY	-.000378	-.000378	0	0
41	MP BETA2	PY	-.000643	-.000643	0	0
42	MP GAMMA2	PY	-.000643	-.000643	0	0
43	M68B	PY	-.000536	-.000536	0	0
44	M70A	PY	-.000536	-.000536	0	0
45	M72A	PY	-.000536	-.000536	0	0
46	M74A	PY	-.000536	-.000536	0	0
47	M76	PY	-.000536	-.000536	0	0



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
48	M78	PY	-0.00536	-0.00536	0	0

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	SO1	PY	-0.00489	-0.00489	0	0
2	GRAT SUP	PY	-0.00391	-0.00391	0	0
3	GRAT SUP2	PY	-0.00391	-0.00391	0	0
4	PL1	PY	-0.001	-0.001	0	0
5	SO2	PY	-0.00489	-0.00489	0	0
6	GRAT SUP3	PY	-0.00391	-0.00391	0	0
7	GRAT SUP4	PY	-0.00391	-0.00391	0	0
8	PL2	PY	-0.001	-0.001	0	0
9	SO3	PY	-0.00489	-0.00489	0	0
10	GRAT SUP5	PY	-0.00391	-0.00391	0	0
11	GRAT SUP6	PY	-0.00391	-0.00391	0	0
12	PL3	PY	-0.001	-0.001	0	0
13	FACE1	PY	-0.00235	-0.00235	0	0
14	MP ALPHA1	PY	-0.00557	-0.00557	0	0
15	MP ALPHA3	PY	-0.00557	-0.00557	0	0
16	RAIL1	PY	-0.00164	-0.00164	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	-0.00661	-0.00661	0	0
21	CR2	PY	-0.00661	-0.00661	0	0
22	CR3	PY	-0.00661	-0.00661	0	0
23	CR4	PY	-0.00661	-0.00661	0	0
24	CR5	PY	-0.00661	-0.00661	0	0
25	CR6	PY	-0.00661	-0.00661	0	0
26	PL4	PY	-0.00464	-0.00464	0	0
27	PL5	PY	-0.00464	-0.00464	0	0
28	PL6	PY	-0.00464	-0.00464	0	0
29	PL7	PY	-0.00464	-0.00464	0	0
30	PL8	PY	-0.00464	-0.00464	0	0
31	PL9	PY	-0.00464	-0.00464	0	0
32	MP ALPHA2	PY	-0.00557	-0.00557	0	0
33	FACE3	PY	-0.00469	-0.00469	0	0
34	MP GAMMA1	PY	-0.00557	-0.00557	0	0
35	MP GAMMA3	PY	-0.00557	-0.00557	0	0
36	RAIL3	PY	-0.00328	-0.00328	0	0
37	FACE2	PY	-0.00469	-0.00469	0	0
38	MP BETA1	PY	-0.00557	-0.00557	0	0
39	MP BETA3	PY	-0.00557	-0.00557	0	0
40	RAIL2	PY	-0.00328	-0.00328	0	0
41	MP BETA2	PY	-0.00557	-0.00557	0	0
42	MP GAMMA2	PY	-0.00557	-0.00557	0	0
43	SO1	PX	-0.00282	-0.00282	0	0
44	GRAT SUP	PX	-0.00226	-0.00226	0	0
45	GRAT SUP2	PX	-0.00226	-0.00226	0	0
46	PL1	PX	-0.00734	-0.00734	0	0
47	SO2	PX	-0.00282	-0.00282	0	0
48	GRAT SUP3	PX	-0.00226	-0.00226	0	0
49	GRAT SUP4	PX	-0.00226	-0.00226	0	0
50	PL2	PX	-0.00734	-0.00734	0	0
51	SO3	PX	-0.00282	-0.00282	0	0
52	GRAT SUP5	PX	-0.00226	-0.00226	0	0



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft.%]	End Location[ft.%]	
53	GRAT SUP6	PX	-0.00226	-0.00226	0	0
54	PL3	PX	-0.00734	-0.00734	0	0
55	FACE1	PX	-0.00135	-0.00135	0	0
56	MP ALPHA1	PX	-0.00322	-0.00322	0	0
57	MP ALPHA3	PX	-0.00322	-0.00322	0	0
58	RAIL1	PX	-9.5e-5	-9.5e-5	0	0
59	RAIL CON3	PX	-0.00745	-0.00745	0	0
60	RAIL CON1	PX	-0.00745	-0.00745	0	0
61	RAIL CON2	PX	-0.00745	-0.00745	0	0
62	CR1	PX	-0.00382	-0.00382	0	0
63	CR2	PX	-0.00382	-0.00382	0	0
64	CR3	PX	-0.00382	-0.00382	0	0
65	CR4	PX	-0.00382	-0.00382	0	0
66	CR5	PX	-0.00382	-0.00382	0	0
67	CR6	PX	-0.00382	-0.00382	0	0
68	PL4	PX	-0.00268	-0.00268	0	0
69	PL5	PX	-0.00268	-0.00268	0	0
70	PL6	PX	-0.00268	-0.00268	0	0
71	PL7	PX	-0.00268	-0.00268	0	0
72	PL8	PX	-0.00268	-0.00268	0	0
73	PL9	PX	-0.00268	-0.00268	0	0
74	MP ALPHA2	PX	-0.00322	-0.00322	0	0
75	FACE3	PX	-0.00271	-0.00271	0	0
76	MP GAMMA1	PX	-0.00322	-0.00322	0	0
77	MP GAMMA3	PX	-0.00322	-0.00322	0	0
78	RAIL3	PX	-0.00189	-0.00189	0	0
79	FACE2	PX	-0.00271	-0.00271	0	0
80	MP BETA1	PX	-0.00322	-0.00322	0	0
81	MP BETA3	PX	-0.00322	-0.00322	0	0
82	RAIL2	PX	-0.00189	-0.00189	0	0
83	MP BETA2	PX	-0.00322	-0.00322	0	0
84	MP GAMMA2	PX	-0.00322	-0.00322	0	0
85	M68B	PY	-0.00464	-0.00464	0	0
86	M68B	PX	-0.00268	-0.00268	0	0
87	M70A	PY	-0.00464	-0.00464	0	0
88	M70A	PX	-0.00268	-0.00268	0	0
89	M72A	PY	-0.00464	-0.00464	0	0
90	M72A	PX	-0.00268	-0.00268	0	0
91	M74A	PY	-0.00464	-0.00464	0	0
92	M74A	PX	-0.00268	-0.00268	0	0
93	M76	PY	-0.00464	-0.00464	0	0
94	M76	PX	-0.00268	-0.00268	0	0
95	M78	PY	-0.00464	-0.00464	0	0
96	M78	PX	-0.00268	-0.00268	0	0

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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft.%]	End Location[ft.%]	
1	SO1	PY	-0.00282	-0.00282	0	0
2	GRAT SUP	PY	-0.00226	-0.00226	0	0
3	GRAT SUP2	PY	-0.00226	-0.00226	0	0
4	PL1	PY	-0.00734	-0.00734	0	0
5	SO2	PY	-0.00282	-0.00282	0	0
6	GRAT SUP3	PY	-0.00226	-0.00226	0	0
7	GRAT SUP4	PY	-0.00226	-0.00226	0	0
8	PL2	PY	-0.00734	-0.00734	0	0
9	SO3	PY	-0.00282	-0.00282	0	0



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
10	GRAT SUP5	PY	-0.00226	-0.00226	0	0
11	GRAT SUP6	PY	-0.00226	-0.00226	0	0
12	PL3	PY	-0.00734	-0.00734	0	0
13	FACE1	PY	-0.00135	-0.00135	0	0
14	MP ALPHA1	PY	-0.00322	-0.00322	0	0
15	MP ALPHA3	PY	-0.00322	-0.00322	0	0
16	RAIL1	PY	-9.5e-5	-9.5e-5	0	0
17	RAIL CON3	PY	-0.00745	-0.00745	0	0
18	RAIL CON1	PY	-0.00745	-0.00745	0	0
19	RAIL CON2	PY	-0.00745	-0.00745	0	0
20	CR1	PY	-0.00382	-0.00382	0	0
21	CR2	PY	-0.00382	-0.00382	0	0
22	CR3	PY	-0.00382	-0.00382	0	0
23	CR4	PY	-0.00382	-0.00382	0	0
24	CR5	PY	-0.00382	-0.00382	0	0
25	CR6	PY	-0.00382	-0.00382	0	0
26	PL4	PY	-0.00268	-0.00268	0	0
27	PL5	PY	-0.00268	-0.00268	0	0
28	PL6	PY	-0.00268	-0.00268	0	0
29	PL7	PY	-0.00268	-0.00268	0	0
30	PL8	PY	-0.00268	-0.00268	0	0
31	PL9	PY	-0.00268	-0.00268	0	0
32	MP ALPHA2	PY	-0.00322	-0.00322	0	0
33	FACE3	PY	-0.00271	-0.00271	0	0
34	MP GAMMA1	PY	-0.00322	-0.00322	0	0
35	MP GAMMA3	PY	-0.00322	-0.00322	0	0
36	RAIL3	PY	-0.00189	-0.00189	0	0
37	FACE2	PY	-0.00271	-0.00271	0	0
38	MP BETA1	PY	-0.00322	-0.00322	0	0
39	MP BETA3	PY	-0.00322	-0.00322	0	0
40	RAIL2	PY	-0.00189	-0.00189	0	0
41	MP BETA2	PY	-0.00322	-0.00322	0	0
42	MP GAMMA2	PY	-0.00322	-0.00322	0	0
43	SO1	PX	-0.00489	-0.00489	0	0
44	GRAT SUP	PX	-0.00391	-0.00391	0	0
45	GRAT SUP2	PX	-0.00391	-0.00391	0	0
46	PL1	PX	-0.001	-0.001	0	0
47	SO2	PX	-0.00489	-0.00489	0	0
48	GRAT SUP3	PX	-0.00391	-0.00391	0	0
49	GRAT SUP4	PX	-0.00391	-0.00391	0	0
50	PL2	PX	-0.001	-0.001	0	0
51	SO3	PX	-0.00489	-0.00489	0	0
52	GRAT SUP5	PX	-0.00391	-0.00391	0	0
53	GRAT SUP6	PX	-0.00391	-0.00391	0	0
54	PL3	PX	-0.001	-0.001	0	0
55	FACE1	PX	-0.00235	-0.00235	0	0
56	MP ALPHA1	PX	-0.00557	-0.00557	0	0
57	MP ALPHA3	PX	-0.00557	-0.00557	0	0
58	RAIL1	PX	-0.00164	-0.00164	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	-0.00661	-0.00661	0	0
63	CR2	PX	-0.00661	-0.00661	0	0
64	CR3	PX	-0.00661	-0.00661	0	0
65	CR4	PX	-0.00661	-0.00661	0	0
66	CR5	PX	-0.00661	-0.00661	0	0



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
67	CR6	PX	-0.000661	-0.000661	0	0
68	PL4	PX	-0.000464	-0.000464	0	0
69	PL5	PX	-0.000464	-0.000464	0	0
70	PL6	PX	-0.000464	-0.000464	0	0
71	PL7	PX	-0.000464	-0.000464	0	0
72	PL8	PX	-0.000464	-0.000464	0	0
73	PL9	PX	-0.000464	-0.000464	0	0
74	MP ALPHA2	PX	-0.000557	-0.000557	0	0
75	FACE3	PX	-0.000469	-0.000469	0	0
76	MP GAMMA1	PX	-0.000557	-0.000557	0	0
77	MP GAMMA3	PX	-0.000557	-0.000557	0	0
78	RAIL3	PX	-0.000328	-0.000328	0	0
79	FACE2	PX	-0.000469	-0.000469	0	0
80	MP BETA1	PX	-0.000557	-0.000557	0	0
81	MP BETA3	PX	-0.000557	-0.000557	0	0
82	RAIL2	PX	-0.000328	-0.000328	0	0
83	MP BETA2	PX	-0.000557	-0.000557	0	0
84	MP GAMMA2	PX	-0.000557	-0.000557	0	0
85	M68B	PY	-0.000268	-0.000268	0	0
86	M68B	PX	-0.000464	-0.000464	0	0
87	M70A	PY	-0.000268	-0.000268	0	0
88	M70A	PX	-0.000464	-0.000464	0	0
89	M72A	PY	-0.000268	-0.000268	0	0
90	M72A	PX	-0.000464	-0.000464	0	0
91	M74A	PY	-0.000268	-0.000268	0	0
92	M74A	PX	-0.000464	-0.000464	0	0
93	M76	PY	-0.000268	-0.000268	0	0
94	M76	PX	-0.000464	-0.000464	0	0
95	M78	PY	-0.000268	-0.000268	0	0
96	M78	PX	-0.000464	-0.000464	0	0

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	SO1	PX	-0.000564	-0.000564	0	0
2	GRAT SUP	PX	-0.000452	-0.000452	0	0
3	GRAT SUP2	PX	-0.000452	-0.000452	0	0
4	PL1	PX	-0.001	-0.001	0	0
5	SO2	PX	-0.000564	-0.000564	0	0
6	GRAT SUP3	PX	-0.000452	-0.000452	0	0
7	GRAT SUP4	PX	-0.000452	-0.000452	0	0
8	PL2	PX	-0.001	-0.001	0	0
9	SO3	PX	-0.000564	-0.000564	0	0
10	GRAT SUP5	PX	-0.000452	-0.000452	0	0
11	GRAT SUP6	PX	-0.000452	-0.000452	0	0
12	PL3	PX	-0.001	-0.001	0	0
13	FACE2	PX	-0.000271	-0.000271	0	0
14	MP ALPHA1	PX	-0.000643	-0.000643	0	0
15	MP ALPHA3	PX	-0.000643	-0.000643	0	0
16	RAIL2	PX	-0.000189	-0.000189	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	-0.000763	-0.000763	0	0
21	CR2	PX	-0.000763	-0.000763	0	0
22	CR3	PX	-0.000763	-0.000763	0	0
23	CR4	PX	-0.000763	-0.000763	0	0



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
24	CR5	PX	-.000763	-.000763	0	0
25	CR6	PX	-.000763	-.000763	0	0
26	PL4	PX	-.000536	-.000536	0	0
27	PL5	PX	-.000536	-.000536	0	0
28	PL6	PX	-.000536	-.000536	0	0
29	PL7	PX	-.000536	-.000536	0	0
30	PL8	PX	-.000536	-.000536	0	0
31	PL9	PX	-.000536	-.000536	0	0
32	MP ALPHA2	PX	-.000643	-.000643	0	0
33	FACE3	PX	-.000542	-.000542	0	0
34	MP GAMMA1	PX	-.000643	-.000643	0	0
35	MP GAMMA3	PX	-.000643	-.000643	0	0
36	RAIL3	PX	-.000378	-.000378	0	0
37	FACE1	PX	-.000542	-.000542	0	0
38	MP BETA1	PX	-.000643	-.000643	0	0
39	MP BETA3	PX	-.000643	-.000643	0	0
40	RAIL1	PX	-.000378	-.000378	0	0
41	MP BETA2	PX	-.000643	-.000643	0	0
42	MP GAMMA2	PX	-.000643	-.000643	0	0
43	M68B	PX	-.000536	-.000536	0	0
44	M70A	PX	-.000536	-.000536	0	0
45	M72A	PX	-.000536	-.000536	0	0
46	M74A	PX	-.000536	-.000536	0	0
47	M76	PX	-.000536	-.000536	0	0
48	M78	PX	-.000536	-.000536	0	0

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	SO1	PY	.000282	.000282	0	0
2	GRAT SUP	PY	.000226	.000226	0	0
3	GRAT SUP2	PY	.000226	.000226	0	0
4	PL1	PY	.000734	.000734	0	0
5	SO2	PY	.000282	.000282	0	0
6	GRAT SUP3	PY	.000226	.000226	0	0
7	GRAT SUP4	PY	.000226	.000226	0	0
8	PL2	PY	.000734	.000734	0	0
9	SO3	PY	.000282	.000282	0	0
10	GRAT SUP5	PY	.000226	.000226	0	0
11	GRAT SUP6	PY	.000226	.000226	0	0
12	PL3	PY	.000734	.000734	0	0
13	FACE2	PY	.000135	.000135	0	0
14	MP ALPHA1	PY	.000322	.000322	0	0
15	MP ALPHA3	PY	.000322	.000322	0	0
16	RAIL2	PY	9.5e-5	9.5e-5	0	0
17	RAIL CON3	PY	.000745	.000745	0	0
18	RAIL CON1	PY	.000745	.000745	0	0
19	RAIL CON2	PY	.000745	.000745	0	0
20	CR1	PY	.000382	.000382	0	0
21	CR2	PY	.000382	.000382	0	0
22	CR3	PY	.000382	.000382	0	0
23	CR4	PY	.000382	.000382	0	0
24	CR5	PY	.000382	.000382	0	0
25	CR6	PY	.000382	.000382	0	0
26	PL4	PY	.000268	.000268	0	0
27	PL5	PY	.000268	.000268	0	0
28	PL6	PY	.000268	.000268	0	0



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]	
29	PL7	PY	.000268	.000268	0	0
30	PL8	PY	.000268	.000268	0	0
31	PL9	PY	.000268	.000268	0	0
32	MP ALPHA2	PY	.000322	.000322	0	0
33	FACE3	PY	.000271	.000271	0	0
34	MP GAMMA1	PY	.000322	.000322	0	0
35	MP GAMMA3	PY	.000322	.000322	0	0
36	RAIL3	PY	.000189	.000189	0	0
37	FACE1	PY	.000271	.000271	0	0
38	MP BETA1	PY	.000322	.000322	0	0
39	MP BETA3	PY	.000322	.000322	0	0
40	RAIL1	PY	.000189	.000189	0	0
41	MP BETA2	PY	.000322	.000322	0	0
42	MP GAMMA2	PY	.000322	.000322	0	0
43	SO1	PX	-.000489	-.000489	0	0
44	GRAT SUP	PX	-.000391	-.000391	0	0
45	GRAT SUP2	PX	-.000391	-.000391	0	0
46	PL1	PX	-.001	-.001	0	0
47	SO2	PX	-.000489	-.000489	0	0
48	GRAT SUP3	PX	-.000391	-.000391	0	0
49	GRAT SUP4	PX	-.000391	-.000391	0	0
50	PL2	PX	-.001	-.001	0	0
51	SO3	PX	-.000489	-.000489	0	0
52	GRAT SUP5	PX	-.000391	-.000391	0	0
53	GRAT SUP6	PX	-.000391	-.000391	0	0
54	PL3	PX	-.001	-.001	0	0
55	FACE2	PX	-.000235	-.000235	0	0
56	MP ALPHA1	PX	-.000557	-.000557	0	0
57	MP ALPHA3	PX	-.000557	-.000557	0	0
58	RAIL2	PX	-.000164	-.000164	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	-.000661	-.000661	0	0
63	CR2	PX	-.000661	-.000661	0	0
64	CR3	PX	-.000661	-.000661	0	0
65	CR4	PX	-.000661	-.000661	0	0
66	CR5	PX	-.000661	-.000661	0	0
67	CR6	PX	-.000661	-.000661	0	0
68	PL4	PX	-.000464	-.000464	0	0
69	PL5	PX	-.000464	-.000464	0	0
70	PL6	PX	-.000464	-.000464	0	0
71	PL7	PX	-.000464	-.000464	0	0
72	PL8	PX	-.000464	-.000464	0	0
73	PL9	PX	-.000464	-.000464	0	0
74	MP ALPHA2	PX	-.000557	-.000557	0	0
75	FACE3	PX	-.000469	-.000469	0	0
76	MP GAMMA1	PX	-.000557	-.000557	0	0
77	MP GAMMA3	PX	-.000557	-.000557	0	0
78	RAIL3	PX	-.000328	-.000328	0	0
79	FACE1	PX	-.000469	-.000469	0	0
80	MP BETA1	PX	-.000557	-.000557	0	0
81	MP BETA3	PX	-.000557	-.000557	0	0
82	RAIL1	PX	-.000328	-.000328	0	0
83	MP BETA2	PX	-.000557	-.000557	0	0
84	MP GAMMA2	PX	-.000557	-.000557	0	0
85	M68B	PY	.000268	.000268	0	0



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
86	M68B	PX	-.000464	-.000464	0	0
87	M70A	PY	.000268	.000268	0	0
88	M70A	PX	-.000464	-.000464	0	0
89	M72A	PY	.000268	.000268	0	0
90	M72A	PX	-.000464	-.000464	0	0
91	M74A	PY	.000268	.000268	0	0
92	M74A	PX	-.000464	-.000464	0	0
93	M76	PY	.000268	.000268	0	0
94	M76	PX	-.000464	-.000464	0	0
95	M78	PY	.000268	.000268	0	0
96	M78	PX	-.000464	-.000464	0	0

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	SO1	PY	.000489	.000489	0	0
2	GRAT SUP	PY	.000391	.000391	0	0
3	GRAT SUP2	PY	.000391	.000391	0	0
4	PL1	PY	.001	.001	0	0
5	SO2	PY	.000489	.000489	0	0
6	GRAT SUP3	PY	.000391	.000391	0	0
7	GRAT SUP4	PY	.000391	.000391	0	0
8	PL2	PY	.001	.001	0	0
9	SO3	PY	.000489	.000489	0	0
10	GRAT SUP5	PY	.000391	.000391	0	0
11	GRAT SUP6	PY	.000391	.000391	0	0
12	PL3	PY	.001	.001	0	0
13	FACE2	PY	.000235	.000235	0	0
14	MP ALPHA1	PY	.000557	.000557	0	0
15	MP ALPHA3	PY	.000557	.000557	0	0
16	RAIL2	PY	.000164	.000164	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	.000661	.000661	0	0
21	CR2	PY	.000661	.000661	0	0
22	CR3	PY	.000661	.000661	0	0
23	CR4	PY	.000661	.000661	0	0
24	CR5	PY	.000661	.000661	0	0
25	CR6	PY	.000661	.000661	0	0
26	PL4	PY	.000464	.000464	0	0
27	PL5	PY	.000464	.000464	0	0
28	PL6	PY	.000464	.000464	0	0
29	PL7	PY	.000464	.000464	0	0
30	PL8	PY	.000464	.000464	0	0
31	PL9	PY	.000464	.000464	0	0
32	MP ALPHA2	PY	.000557	.000557	0	0
33	FACE3	PY	.000469	.000469	0	0
34	MP GAMMA1	PY	.000557	.000557	0	0
35	MP GAMMA3	PY	.000557	.000557	0	0
36	RAIL3	PY	.000328	.000328	0	0
37	FACE1	PY	.000469	.000469	0	0
38	MP BETA1	PY	.000557	.000557	0	0
39	MP BETA3	PY	.000557	.000557	0	0
40	RAIL1	PY	.000328	.000328	0	0
41	MP BETA2	PY	.000557	.000557	0	0
42	MP GAMMA2	PY	.000557	.000557	0	0



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]	
43	SO1	PX	-0.00282	-0.00282	0	0
44	GRAT SUP	PX	-0.00226	-0.00226	0	0
45	GRAT SUP2	PX	-0.00226	-0.00226	0	0
46	PL1	PX	-0.00734	-0.00734	0	0
47	SO2	PX	-0.00282	-0.00282	0	0
48	GRAT SUP3	PX	-0.00226	-0.00226	0	0
49	GRAT SUP4	PX	-0.00226	-0.00226	0	0
50	PL2	PX	-0.00734	-0.00734	0	0
51	SO3	PX	-0.00282	-0.00282	0	0
52	GRAT SUP5	PX	-0.00226	-0.00226	0	0
53	GRAT SUP6	PX	-0.00226	-0.00226	0	0
54	PL3	PX	-0.00734	-0.00734	0	0
55	FACE2	PX	-0.00135	-0.00135	0	0
56	MP ALPHA1	PX	-0.00322	-0.00322	0	0
57	MP ALPHA3	PX	-0.00322	-0.00322	0	0
58	RAIL2	PX	-9.5e-5	-9.5e-5	0	0
59	RAIL CON3	PX	-0.00745	-0.00745	0	0
60	RAIL CON1	PX	-0.00745	-0.00745	0	0
61	RAIL CON2	PX	-0.00745	-0.00745	0	0
62	CR1	PX	-0.00382	-0.00382	0	0
63	CR2	PX	-0.00382	-0.00382	0	0
64	CR3	PX	-0.00382	-0.00382	0	0
65	CR4	PX	-0.00382	-0.00382	0	0
66	CR5	PX	-0.00382	-0.00382	0	0
67	CR6	PX	-0.00382	-0.00382	0	0
68	PL4	PX	-0.00268	-0.00268	0	0
69	PL5	PX	-0.00268	-0.00268	0	0
70	PL6	PX	-0.00268	-0.00268	0	0
71	PL7	PX	-0.00268	-0.00268	0	0
72	PL8	PX	-0.00268	-0.00268	0	0
73	PL9	PX	-0.00268	-0.00268	0	0
74	MP ALPHA2	PX	-0.00322	-0.00322	0	0
75	FACE3	PX	-0.00271	-0.00271	0	0
76	MP GAMMA1	PX	-0.00322	-0.00322	0	0
77	MP GAMMA3	PX	-0.00322	-0.00322	0	0
78	RAIL3	PX	-0.00189	-0.00189	0	0
79	FACE1	PX	-0.00271	-0.00271	0	0
80	MP BETA1	PX	-0.00322	-0.00322	0	0
81	MP BETA3	PX	-0.00322	-0.00322	0	0
82	RAIL1	PX	-0.00189	-0.00189	0	0
83	MP BETA2	PX	-0.00322	-0.00322	0	0
84	MP GAMMA2	PX	-0.00322	-0.00322	0	0
85	M68B	PY	.000464	.000464	0	0
86	M68B	PX	-0.00268	-0.00268	0	0
87	M70A	PY	.000464	.000464	0	0
88	M70A	PX	-0.00268	-0.00268	0	0
89	M72A	PY	.000464	.000464	0	0
90	M72A	PX	-0.00268	-0.00268	0	0
91	M74A	PY	.000464	.000464	0	0
92	M74A	PX	-0.00268	-0.00268	0	0
93	M76	PY	.000464	.000464	0	0
94	M76	PX	-0.00268	-0.00268	0	0
95	M78	PY	.000464	.000464	0	0
96	M78	PX	-0.00268	-0.00268	0	0

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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
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Member Distributed Loads (BLC 21 : Maintenance (180)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	SO1	PY	.000564	.000564	0	0
2	GRAT SUP	PY	.000452	.000452	0	0
3	GRAT SUP2	PY	.000452	.000452	0	0
4	PL1	PY	.001	.001	0	0
5	SO2	PY	.000564	.000564	0	0
6	GRAT SUP3	PY	.000452	.000452	0	0
7	GRAT SUP4	PY	.000452	.000452	0	0
8	PL2	PY	.001	.001	0	0
9	SO3	PY	.000564	.000564	0	0
10	GRAT SUP5	PY	.000452	.000452	0	0
11	GRAT SUP6	PY	.000452	.000452	0	0
12	PL3	PY	.001	.001	0	0
13	FACE2	PY	.000271	.000271	0	0
14	MP ALPHA1	PY	.000643	.000643	0	0
15	MP ALPHA3	PY	.000643	.000643	0	0
16	RAIL2	PY	.000189	.000189	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	.000763	.000763	0	0
21	CR2	PY	.000763	.000763	0	0
22	CR3	PY	.000763	.000763	0	0
23	CR4	PY	.000763	.000763	0	0
24	CR5	PY	.000763	.000763	0	0
25	CR6	PY	.000763	.000763	0	0
26	PL4	PY	.000536	.000536	0	0
27	PL5	PY	.000536	.000536	0	0
28	PL6	PY	.000536	.000536	0	0
29	PL7	PY	.000536	.000536	0	0
30	PL8	PY	.000536	.000536	0	0
31	PL9	PY	.000536	.000536	0	0
32	MP ALPHA2	PY	.000643	.000643	0	0
33	FACE3	PY	.000542	.000542	0	0
34	MP GAMMA1	PY	.000643	.000643	0	0
35	MP GAMMA3	PY	.000643	.000643	0	0
36	RAIL3	PY	.000378	.000378	0	0
37	FACE1	PY	.000542	.000542	0	0
38	MP BETA1	PY	.000643	.000643	0	0
39	MP BETA3	PY	.000643	.000643	0	0
40	RAIL1	PY	.000378	.000378	0	0
41	MP BETA2	PY	.000643	.000643	0	0
42	MP GAMMA2	PY	.000643	.000643	0	0
43	M68B	PY	.000536	.000536	0	0
44	M70A	PY	.000536	.000536	0	0
45	M72A	PY	.000536	.000536	0	0
46	M74A	PY	.000536	.000536	0	0
47	M76	PY	.000536	.000536	0	0
48	M78	PY	.000536	.000536	0	0

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	SO1	PY	.000489	.000489	0	0
2	GRAT SUP	PY	.000391	.000391	0	0
3	GRAT SUP2	PY	.000391	.000391	0	0
4	PL1	PY	.001	.001	0	0
5	SO2	PY	.000489	.000489	0	0



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
6	GRAT SUP3	PY	.000391	.000391	0	0
7	GRAT SUP4	PY	.000391	.000391	0	0
8	PL2	PY	.001	.001	0	0
9	SO3	PY	.000489	.000489	0	0
10	GRAT SUP5	PY	.000391	.000391	0	0
11	GRAT SUP6	PY	.000391	.000391	0	0
12	PL3	PY	.001	.001	0	0
13	FACE3	PY	.000235	.000235	0	0
14	MP ALPHA1	PY	.000557	.000557	0	0
15	MP ALPHA3	PY	.000557	.000557	0	0
16	RAIL3	PY	.000164	.000164	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	.000661	.000661	0	0
21	CR2	PY	.000661	.000661	0	0
22	CR3	PY	.000661	.000661	0	0
23	CR4	PY	.000661	.000661	0	0
24	CR5	PY	.000661	.000661	0	0
25	CR6	PY	.000661	.000661	0	0
26	PL4	PY	.000464	.000464	0	0
27	PL5	PY	.000464	.000464	0	0
28	PL6	PY	.000464	.000464	0	0
29	PL7	PY	.000464	.000464	0	0
30	PL8	PY	.000464	.000464	0	0
31	PL9	PY	.000464	.000464	0	0
32	MP ALPHA2	PY	.000557	.000557	0	0
33	FACE1	PY	.000469	.000469	0	0
34	MP GAMMA1	PY	.000557	.000557	0	0
35	MP GAMMA3	PY	.000557	.000557	0	0
36	RAIL1	PY	.000328	.000328	0	0
37	FACE2	PY	.000469	.000469	0	0
38	MP BETA1	PY	.000557	.000557	0	0
39	MP BETA3	PY	.000557	.000557	0	0
40	RAIL2	PY	.000328	.000328	0	0
41	MP BETA2	PY	.000557	.000557	0	0
42	MP GAMMA2	PY	.000557	.000557	0	0
43	SO1	PX	.000282	.000282	0	0
44	GRAT SUP	PX	.000226	.000226	0	0
45	GRAT SUP2	PX	.000226	.000226	0	0
46	PL1	PX	.000734	.000734	0	0
47	SO2	PX	.000282	.000282	0	0
48	GRAT SUP3	PX	.000226	.000226	0	0
49	GRAT SUP4	PX	.000226	.000226	0	0
50	PL2	PX	.000734	.000734	0	0
51	SO3	PX	.000282	.000282	0	0
52	GRAT SUP5	PX	.000226	.000226	0	0
53	GRAT SUP6	PX	.000226	.000226	0	0
54	PL3	PX	.000734	.000734	0	0
55	FACE3	PX	.000135	.000135	0	0
56	MP ALPHA1	PX	.000322	.000322	0	0
57	MP ALPHA3	PX	.000322	.000322	0	0
58	RAIL3	PX	9.5e-5	9.5e-5	0	0
59	RAIL CON3	PX	.000745	.000745	0	0
60	RAIL CON1	PX	.000745	.000745	0	0
61	RAIL CON2	PX	.000745	.000745	0	0
62	CR1	PX	.000382	.000382	0	0



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
63	CR2	PX	.000382	.000382	0	0
64	CR3	PX	.000382	.000382	0	0
65	CR4	PX	.000382	.000382	0	0
66	CR5	PX	.000382	.000382	0	0
67	CR6	PX	.000382	.000382	0	0
68	PL4	PX	.000268	.000268	0	0
69	PL5	PX	.000268	.000268	0	0
70	PL6	PX	.000268	.000268	0	0
71	PL7	PX	.000268	.000268	0	0
72	PL8	PX	.000268	.000268	0	0
73	PL9	PX	.000268	.000268	0	0
74	MP ALPHA2	PX	.000322	.000322	0	0
75	FACE1	PX	.000271	.000271	0	0
76	MP GAMMA1	PX	.000322	.000322	0	0
77	MP GAMMA3	PX	.000322	.000322	0	0
78	RAIL1	PX	.000189	.000189	0	0
79	FACE2	PX	.000271	.000271	0	0
80	MP BETA1	PX	.000322	.000322	0	0
81	MP BETA3	PX	.000322	.000322	0	0
82	RAIL2	PX	.000189	.000189	0	0
83	MP BETA2	PX	.000322	.000322	0	0
84	MP GAMMA2	PX	.000322	.000322	0	0
85	M68B	PY	.000464	.000464	0	0
86	M68B	PX	.000268	.000268	0	0
87	M70A	PY	.000464	.000464	0	0
88	M70A	PX	.000268	.000268	0	0
89	M72A	PY	.000464	.000464	0	0
90	M72A	PX	.000268	.000268	0	0
91	M74A	PY	.000464	.000464	0	0
92	M74A	PX	.000268	.000268	0	0
93	M76	PY	.000464	.000464	0	0
94	M76	PX	.000268	.000268	0	0
95	M78	PY	.000464	.000464	0	0
96	M78	PX	.000268	.000268	0	0

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	SO1	PY	.000282	.000282	0	0
2	GRAT SUP	PY	.000226	.000226	0	0
3	GRAT SUP2	PY	.000226	.000226	0	0
4	PL1	PY	.000734	.000734	0	0
5	SO2	PY	.000282	.000282	0	0
6	GRAT SUP3	PY	.000226	.000226	0	0
7	GRAT SUP4	PY	.000226	.000226	0	0
8	PL2	PY	.000734	.000734	0	0
9	SO3	PY	.000282	.000282	0	0
10	GRAT SUP5	PY	.000226	.000226	0	0
11	GRAT SUP6	PY	.000226	.000226	0	0
12	PL3	PY	.000734	.000734	0	0
13	FACE3	PY	.000135	.000135	0	0
14	MP ALPHA1	PY	.000322	.000322	0	0
15	MP ALPHA3	PY	.000322	.000322	0	0
16	RAIL3	PY	9.5e-5	9.5e-5	0	0
17	RAIL CON3	PY	.000745	.000745	0	0
18	RAIL CON1	PY	.000745	.000745	0	0
19	RAIL CON2	PY	.000745	.000745	0	0



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]	
20	CR1	PY	.000382	.000382	0	0
21	CR2	PY	.000382	.000382	0	0
22	CR3	PY	.000382	.000382	0	0
23	CR4	PY	.000382	.000382	0	0
24	CR5	PY	.000382	.000382	0	0
25	CR6	PY	.000382	.000382	0	0
26	PL4	PY	.000268	.000268	0	0
27	PL5	PY	.000268	.000268	0	0
28	PL6	PY	.000268	.000268	0	0
29	PL7	PY	.000268	.000268	0	0
30	PL8	PY	.000268	.000268	0	0
31	PL9	PY	.000268	.000268	0	0
32	MP ALPHA2	PY	.000322	.000322	0	0
33	FACE1	PY	.000271	.000271	0	0
34	MP GAMMA1	PY	.000322	.000322	0	0
35	MP GAMMA3	PY	.000322	.000322	0	0
36	RAIL1	PY	.000189	.000189	0	0
37	FACE2	PY	.000271	.000271	0	0
38	MP BETA1	PY	.000322	.000322	0	0
39	MP BETA3	PY	.000322	.000322	0	0
40	RAIL2	PY	.000189	.000189	0	0
41	MP BETA2	PY	.000322	.000322	0	0
42	MP GAMMA2	PY	.000322	.000322	0	0
43	SO1	PX	.000489	.000489	0	0
44	GRAT SUP	PX	.000391	.000391	0	0
45	GRAT SUP2	PX	.000391	.000391	0	0
46	PL1	PX	.001	.001	0	0
47	SO2	PX	.000489	.000489	0	0
48	GRAT SUP3	PX	.000391	.000391	0	0
49	GRAT SUP4	PX	.000391	.000391	0	0
50	PL2	PX	.001	.001	0	0
51	SO3	PX	.000489	.000489	0	0
52	GRAT SUP5	PX	.000391	.000391	0	0
53	GRAT SUP6	PX	.000391	.000391	0	0
54	PL3	PX	.001	.001	0	0
55	FACE3	PX	.000235	.000235	0	0
56	MP ALPHA1	PX	.000557	.000557	0	0
57	MP ALPHA3	PX	.000557	.000557	0	0
58	RAIL3	PX	.000164	.000164	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	.000661	.000661	0	0
63	CR2	PX	.000661	.000661	0	0
64	CR3	PX	.000661	.000661	0	0
65	CR4	PX	.000661	.000661	0	0
66	CR5	PX	.000661	.000661	0	0
67	CR6	PX	.000661	.000661	0	0
68	PL4	PX	.000464	.000464	0	0
69	PL5	PX	.000464	.000464	0	0
70	PL6	PX	.000464	.000464	0	0
71	PL7	PX	.000464	.000464	0	0
72	PL8	PX	.000464	.000464	0	0
73	PL9	PX	.000464	.000464	0	0
74	MP ALPHA2	PX	.000557	.000557	0	0
75	FACE1	PX	.000469	.000469	0	0
76	MP GAMMA1	PX	.000557	.000557	0	0



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
77	MP GAMMA3	PX	.000557	.000557	0	0
78	RAIL1	PX	.000328	.000328	0	0
79	FACE2	PX	.000469	.000469	0	0
80	MP BETA1	PX	.000557	.000557	0	0
81	MP BETA3	PX	.000557	.000557	0	0
82	RAIL2	PX	.000328	.000328	0	0
83	MP BETA2	PX	.000557	.000557	0	0
84	MP GAMMA2	PX	.000557	.000557	0	0
85	M68B	PY	.000268	.000268	0	0
86	M68B	PX	.000464	.000464	0	0
87	M70A	PY	.000268	.000268	0	0
88	M70A	PX	.000464	.000464	0	0
89	M72A	PY	.000268	.000268	0	0
90	M72A	PX	.000464	.000464	0	0
91	M74A	PY	.000268	.000268	0	0
92	M74A	PX	.000464	.000464	0	0
93	M76	PY	.000268	.000268	0	0
94	M76	PX	.000464	.000464	0	0
95	M78	PY	.000268	.000268	0	0
96	M78	PX	.000464	.000464	0	0

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	SO1	PX	.000564	.000564	0	0
2	GRAT SUP	PX	.000452	.000452	0	0
3	GRAT SUP2	PX	.000452	.000452	0	0
4	PL1	PX	.001	.001	0	0
5	SO2	PX	.000564	.000564	0	0
6	GRAT SUP3	PX	.000452	.000452	0	0
7	GRAT SUP4	PX	.000452	.000452	0	0
8	PL2	PX	.001	.001	0	0
9	SO3	PX	.000564	.000564	0	0
10	GRAT SUP5	PX	.000452	.000452	0	0
11	GRAT SUP6	PX	.000452	.000452	0	0
12	PL3	PX	.001	.001	0	0
13	FACE3	PX	.000271	.000271	0	0
14	MP ALPHA1	PX	.000643	.000643	0	0
15	MP ALPHA3	PX	.000643	.000643	0	0
16	RAIL3	PX	.000189	.000189	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	.000763	.000763	0	0
21	CR2	PX	.000763	.000763	0	0
22	CR3	PX	.000763	.000763	0	0
23	CR4	PX	.000763	.000763	0	0
24	CR5	PX	.000763	.000763	0	0
25	CR6	PX	.000763	.000763	0	0
26	PL4	PX	.000536	.000536	0	0
27	PL5	PX	.000536	.000536	0	0
28	PL6	PX	.000536	.000536	0	0
29	PL7	PX	.000536	.000536	0	0
30	PL8	PX	.000536	.000536	0	0
31	PL9	PX	.000536	.000536	0	0
32	MP ALPHA2	PX	.000643	.000643	0	0
33	FACE1	PX	.000542	.000542	0	0



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
34	MP GAMMA1	PX	.000643	.000643	0	0
35	MP GAMMA3	PX	.000643	.000643	0	0
36	RAIL1	PX	.000378	.000378	0	0
37	FACE2	PX	.000542	.000542	0	0
38	MP BETA1	PX	.000643	.000643	0	0
39	MP BETA3	PX	.000643	.000643	0	0
40	RAIL2	PX	.000378	.000378	0	0
41	MP BETA2	PX	.000643	.000643	0	0
42	MP GAMMA2	PX	.000643	.000643	0	0
43	M68B	PX	.000536	.000536	0	0
44	M70A	PX	.000536	.000536	0	0
45	M72A	PX	.000536	.000536	0	0
46	M74A	PX	.000536	.000536	0	0
47	M76	PX	.000536	.000536	0	0
48	M78	PX	.000536	.000536	0	0

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	SO1	PY	-.000282	-.000282	0	0
2	GRAT SUP	PY	-.000226	-.000226	0	0
3	GRAT SUP2	PY	-.000226	-.000226	0	0
4	PL1	PY	-.000734	-.000734	0	0
5	SO2	PY	-.000282	-.000282	0	0
6	GRAT SUP3	PY	-.000226	-.000226	0	0
7	GRAT SUP4	PY	-.000226	-.000226	0	0
8	PL2	PY	-.000734	-.000734	0	0
9	SO3	PY	-.000282	-.000282	0	0
10	GRAT SUP5	PY	-.000226	-.000226	0	0
11	GRAT SUP6	PY	-.000226	-.000226	0	0
12	PL3	PY	-.000734	-.000734	0	0
13	FACE3	PY	-.000135	-.000135	0	0
14	MP ALPHA1	PY	-.000322	-.000322	0	0
15	MP ALPHA3	PY	-.000322	-.000322	0	0
16	RAIL3	PY	-9.5e-5	-9.5e-5	0	0
17	RAIL CON3	PY	-.000745	-.000745	0	0
18	RAIL CON1	PY	-.000745	-.000745	0	0
19	RAIL CON2	PY	-.000745	-.000745	0	0
20	CR1	PY	-.000382	-.000382	0	0
21	CR2	PY	-.000382	-.000382	0	0
22	CR3	PY	-.000382	-.000382	0	0
23	CR4	PY	-.000382	-.000382	0	0
24	CR5	PY	-.000382	-.000382	0	0
25	CR6	PY	-.000382	-.000382	0	0
26	PL4	PY	-.000268	-.000268	0	0
27	PL5	PY	-.000268	-.000268	0	0
28	PL6	PY	-.000268	-.000268	0	0
29	PL7	PY	-.000268	-.000268	0	0
30	PL8	PY	-.000268	-.000268	0	0
31	PL9	PY	-.000268	-.000268	0	0
32	MP ALPHA2	PY	-.000322	-.000322	0	0
33	FACE1	PY	-.000271	-.000271	0	0
34	MP GAMMA1	PY	-.000322	-.000322	0	0
35	MP GAMMA3	PY	-.000322	-.000322	0	0
36	RAIL1	PY	-.000189	-.000189	0	0
37	FACE2	PY	-.000271	-.000271	0	0
38	MP BETA1	PY	-.000322	-.000322	0	0



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]	
39	MP BETA3	PY	-.000322	-.000322	0	0
40	RAIL2	PY	-.000189	-.000189	0	0
41	MP BETA2	PY	-.000322	-.000322	0	0
42	MP GAMMA2	PY	-.000322	-.000322	0	0
43	SO1	PX	.000489	.000489	0	0
44	GRAT SUP	PX	.000391	.000391	0	0
45	GRAT SUP2	PX	.000391	.000391	0	0
46	PL1	PX	.001	.001	0	0
47	SO2	PX	.000489	.000489	0	0
48	GRAT SUP3	PX	.000391	.000391	0	0
49	GRAT SUP4	PX	.000391	.000391	0	0
50	PL2	PX	.001	.001	0	0
51	SO3	PX	.000489	.000489	0	0
52	GRAT SUP5	PX	.000391	.000391	0	0
53	GRAT SUP6	PX	.000391	.000391	0	0
54	PL3	PX	.001	.001	0	0
55	FACE3	PX	.000235	.000235	0	0
56	MP ALPHA1	PX	.000557	.000557	0	0
57	MP ALPHA3	PX	.000557	.000557	0	0
58	RAIL3	PX	.000164	.000164	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	.000661	.000661	0	0
63	CR2	PX	.000661	.000661	0	0
64	CR3	PX	.000661	.000661	0	0
65	CR4	PX	.000661	.000661	0	0
66	CR5	PX	.000661	.000661	0	0
67	CR6	PX	.000661	.000661	0	0
68	PL4	PX	.000464	.000464	0	0
69	PL5	PX	.000464	.000464	0	0
70	PL6	PX	.000464	.000464	0	0
71	PL7	PX	.000464	.000464	0	0
72	PL8	PX	.000464	.000464	0	0
73	PL9	PX	.000464	.000464	0	0
74	MP ALPHA2	PX	.000557	.000557	0	0
75	FACE1	PX	.000469	.000469	0	0
76	MP GAMMA1	PX	.000557	.000557	0	0
77	MP GAMMA3	PX	.000557	.000557	0	0
78	RAIL1	PX	.000328	.000328	0	0
79	FACE2	PX	.000469	.000469	0	0
80	MP BETA1	PX	.000557	.000557	0	0
81	MP BETA3	PX	.000557	.000557	0	0
82	RAIL2	PX	.000328	.000328	0	0
83	MP BETA2	PX	.000557	.000557	0	0
84	MP GAMMA2	PX	.000557	.000557	0	0
85	M68B	PY	-.000268	-.000268	0	0
86	M68B	PX	.000464	.000464	0	0
87	M70A	PY	-.000268	-.000268	0	0
88	M70A	PX	.000464	.000464	0	0
89	M72A	PY	-.000268	-.000268	0	0
90	M72A	PX	.000464	.000464	0	0
91	M74A	PY	-.000268	-.000268	0	0
92	M74A	PX	.000464	.000464	0	0
93	M76	PY	-.000268	-.000268	0	0
94	M76	PX	.000464	.000464	0	0
95	M78	PY	-.000268	-.000268	0	0



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
96 M78	PX	.000464	.000464	0	0

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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1 SO1	PY	-.000489	-.000489	0	0
2 GRAT SUP	PY	-.000391	-.000391	0	0
3 GRAT SUP2	PY	-.000391	-.000391	0	0
4 PL1	PY	-.001	-.001	0	0
5 SO2	PY	-.000489	-.000489	0	0
6 GRAT SUP3	PY	-.000391	-.000391	0	0
7 GRAT SUP4	PY	-.000391	-.000391	0	0
8 PL2	PY	-.001	-.001	0	0
9 SO3	PY	-.000489	-.000489	0	0
10 GRAT SUP5	PY	-.000391	-.000391	0	0
11 GRAT SUP6	PY	-.000391	-.000391	0	0
12 PL3	PY	-.001	-.001	0	0
13 FACE1	PY	-.000235	-.000235	0	0
14 MP ALPHA1	PY	-.000557	-.000557	0	0
15 MP ALPHA3	PY	-.000557	-.000557	0	0
16 RAIL1	PY	-.000164	-.000164	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	-.000661	-.000661	0	0
21 CR2	PY	-.000661	-.000661	0	0
22 CR3	PY	-.000661	-.000661	0	0
23 CR4	PY	-.000661	-.000661	0	0
24 CR5	PY	-.000661	-.000661	0	0
25 CR6	PY	-.000661	-.000661	0	0
26 PL4	PY	-.000464	-.000464	0	0
27 PL5	PY	-.000464	-.000464	0	0
28 PL6	PY	-.000464	-.000464	0	0
29 PL7	PY	-.000464	-.000464	0	0
30 PL8	PY	-.000464	-.000464	0	0
31 PL9	PY	-.000464	-.000464	0	0
32 MP ALPHA2	PY	-.000557	-.000557	0	0
33 FACE3	PY	-.000469	-.000469	0	0
34 MP GAMMA1	PY	-.000557	-.000557	0	0
35 MP GAMMA3	PY	-.000557	-.000557	0	0
36 RAIL3	PY	-.000328	-.000328	0	0
37 FACE2	PY	-.000469	-.000469	0	0
38 MP BETA1	PY	-.000557	-.000557	0	0
39 MP BETA3	PY	-.000557	-.000557	0	0
40 RAIL2	PY	-.000328	-.000328	0	0
41 MP BETA2	PY	-.000557	-.000557	0	0
42 MP GAMMA2	PY	-.000557	-.000557	0	0
43 SO1	PX	.000282	.000282	0	0
44 GRAT SUP	PX	.000226	.000226	0	0
45 GRAT SUP2	PX	.000226	.000226	0	0
46 PL1	PX	.000734	.000734	0	0
47 SO2	PX	.000282	.000282	0	0
48 GRAT SUP3	PX	.000226	.000226	0	0
49 GRAT SUP4	PX	.000226	.000226	0	0
50 PL2	PX	.000734	.000734	0	0
51 SO3	PX	.000282	.000282	0	0
52 GRAT SUP5	PX	.000226	.000226	0	0



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
53	GRAT SUP6	PX	.000226	.000226	0	0
54	PL3	PX	.000734	.000734	0	0
55	FACE1	PX	.000135	.000135	0	0
56	MP ALPHA1	PX	.000322	.000322	0	0
57	MP ALPHA3	PX	.000322	.000322	0	0
58	RAIL1	PX	9.5e-5	9.5e-5	0	0
59	RAIL CON3	PX	.000745	.000745	0	0
60	RAIL CON1	PX	.000745	.000745	0	0
61	RAIL CON2	PX	.000745	.000745	0	0
62	CR1	PX	.000382	.000382	0	0
63	CR2	PX	.000382	.000382	0	0
64	CR3	PX	.000382	.000382	0	0
65	CR4	PX	.000382	.000382	0	0
66	CR5	PX	.000382	.000382	0	0
67	CR6	PX	.000382	.000382	0	0
68	PL4	PX	.000268	.000268	0	0
69	PL5	PX	.000268	.000268	0	0
70	PL6	PX	.000268	.000268	0	0
71	PL7	PX	.000268	.000268	0	0
72	PL8	PX	.000268	.000268	0	0
73	PL9	PX	.000268	.000268	0	0
74	MP ALPHA2	PX	.000322	.000322	0	0
75	FACE3	PX	.000271	.000271	0	0
76	MP GAMMA1	PX	.000322	.000322	0	0
77	MP GAMMA3	PX	.000322	.000322	0	0
78	RAIL3	PX	.000189	.000189	0	0
79	FACE2	PX	.000271	.000271	0	0
80	MP BETA1	PX	.000322	.000322	0	0
81	MP BETA3	PX	.000322	.000322	0	0
82	RAIL2	PX	.000189	.000189	0	0
83	MP BETA2	PX	.000322	.000322	0	0
84	MP GAMMA2	PX	.000322	.000322	0	0
85	M68B	PY	-.000464	-.000464	0	0
86	M68B	PX	.000268	.000268	0	0
87	M70A	PY	-.000464	-.000464	0	0
88	M70A	PX	.000268	.000268	0	0
89	M72A	PY	-.000464	-.000464	0	0
90	M72A	PX	.000268	.000268	0	0
91	M74A	PY	-.000464	-.000464	0	0
92	M74A	PX	.000268	.000268	0	0
93	M76	PY	-.000464	-.000464	0	0
94	M76	PX	.000268	.000268	0	0
95	M78	PY	-.000464	-.000464	0	0
96	M78	PX	.000268	.000268	0	0

Member Distributed Loads (BLC 27 : Ice Dead Load)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	SO1	Z	-.009	-.009	0	0
2	GRAT SUP	Z	-.006	-.006	0	0
3	GRAT SUP2	Z	-.006	-.006	0	0
4	PL1	Z	-.008	-.008	0	0
5	SO2	Z	-.009	-.009	0	0
6	GRAT SUP3	Z	-.006	-.006	0	0
7	GRAT SUP4	Z	-.006	-.006	0	0
8	PL2	Z	-.008	-.008	0	0
9	SO3	Z	-.009	-.009	0	0



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
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	-0.007	-0.007	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	-0.007	-0.007	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	-0.007	-0.007	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
43	M68B	Z	-0.005	-0.005	0	0
44	M70A	Z	-0.005	-0.005	0	0
45	M72A	Z	-0.005	-0.005	0	0
46	M74A	Z	-0.005	-0.005	0	0
47	M76	Z	-0.005	-0.005	0	0
48	M78	Z	-0.005	-0.005	0	0

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	SO1	PY	-0.002	-0.002	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	-0.004	-0.004	0	0
5	SO2	PY	-0.002	-0.002	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	-0.004	-0.004	0	0
9	SO3	PY	-0.002	-0.002	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	-0.004	-0.004	0	0
13	FACE1	PY	-0.001	-0.001	0	0
14	MP ALPHA1	PY	-0.004	-0.004	0	0



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
15	MP ALPHA3	PY	-0.04	-0.04	0	0
16	RAIL1	PY	-0.01	-0.01	0	0
17	RAIL CON3	PY	-0.04	-0.04	0	0
18	RAIL CON1	PY	-0.04	-0.04	0	0
19	RAIL CON2	PY	-0.04	-0.04	0	0
20	CR1	PY	-0.02	-0.02	0	0
21	CR2	PY	-0.02	-0.02	0	0
22	CR3	PY	-0.02	-0.02	0	0
23	CR4	PY	-0.02	-0.02	0	0
24	CR5	PY	-0.02	-0.02	0	0
25	CR6	PY	-0.02	-0.02	0	0
26	PL4	PY	-0.02	-0.02	0	0
27	PL5	PY	-0.02	-0.02	0	0
28	PL6	PY	-0.02	-0.02	0	0
29	PL7	PY	-0.02	-0.02	0	0
30	PL8	PY	-0.02	-0.02	0	0
31	PL9	PY	-0.02	-0.02	0	0
32	MP ALPHA2	PY	-0.04	-0.04	0	0
33	FACE3	PY	-0.03	-0.03	0	0
34	MP GAMMA1	PY	-0.04	-0.04	0	0
35	MP GAMMA3	PY	-0.04	-0.04	0	0
36	RAIL3	PY	-0.02	-0.02	0	0
37	FACE2	PY	-0.03	-0.03	0	0
38	MP BETA1	PY	-0.04	-0.04	0	0
39	MP BETA3	PY	-0.04	-0.04	0	0
40	RAIL2	PY	-0.02	-0.02	0	0
41	MP BETA2	PY	-0.04	-0.04	0	0
42	MP GAMMA2	PY	-0.04	-0.04	0	0
43	M68B	PY	-0.02	-0.02	0	0
44	M70A	PY	-0.02	-0.02	0	0
45	M72A	PY	-0.02	-0.02	0	0
46	M74A	PY	-0.02	-0.02	0	0
47	M76	PY	-0.02	-0.02	0	0
48	M78	PY	-0.02	-0.02	0	0

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	SO1	PY	-0.01	-0.01	0	0
2	GRAT SUP	PY	-0.02	-0.02	0	0
3	GRAT SUP2	PY	-0.02	-0.02	0	0
4	PL1	PY	-0.03	-0.03	0	0
5	SO2	PY	-0.01	-0.01	0	0
6	GRAT SUP3	PY	-0.02	-0.02	0	0
7	GRAT SUP4	PY	-0.02	-0.02	0	0
8	PL2	PY	-0.03	-0.03	0	0
9	SO3	PY	-0.01	-0.01	0	0
10	GRAT SUP5	PY	-0.02	-0.02	0	0
11	GRAT SUP6	PY	-0.02	-0.02	0	0
12	PL3	PY	-0.03	-0.03	0	0
13	FACE1	PY	-0.01	-0.01	0	0
14	MP ALPHA1	PY	-0.03	-0.03	0	0
15	MP ALPHA3	PY	-0.03	-0.03	0	0
16	RAIL1	PY	-0.01	-0.01	0	0
17	RAIL CON3	PY	-0.03	-0.03	0	0
18	RAIL CON1	PY	-0.03	-0.03	0	0
19	RAIL CON2	PY	-0.03	-0.03	0	0



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]	
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	-0.002	-0.002	0	0
27	PL5	PY	-0.002	-0.002	0	0
28	PL6	PY	-0.002	-0.002	0	0
29	PL7	PY	-0.002	-0.002	0	0
30	PL8	PY	-0.002	-0.002	0	0
31	PL9	PY	-0.002	-0.002	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
43	SO1	PX	-0.000816	-0.000816	0	0
44	GRAT SUP	PX	-0.000895	-0.000895	0	0
45	GRAT SUP2	PX	-0.000895	-0.000895	0	0
46	PL1	PX	-0.002	-0.002	0	0
47	SO2	PX	-0.000816	-0.000816	0	0
48	GRAT SUP3	PX	-0.000895	-0.000895	0	0
49	GRAT SUP4	PX	-0.000895	-0.000895	0	0
50	PL2	PX	-0.002	-0.002	0	0
51	SO3	PX	-0.000816	-0.000816	0	0
52	GRAT SUP5	PX	-0.000895	-0.000895	0	0
53	GRAT SUP6	PX	-0.000895	-0.000895	0	0
54	PL3	PX	-0.002	-0.002	0	0
55	FACE1	PX	-0.00071	-0.00071	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	-0.000583	-0.000583	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	-0.000972	-0.000972	0	0
69	PL5	PX	-0.000972	-0.000972	0	0
70	PL6	PX	-0.000972	-0.000972	0	0
71	PL7	PX	-0.000972	-0.000972	0	0
72	PL8	PX	-0.000972	-0.000972	0	0
73	PL9	PX	-0.000972	-0.000972	0	0
74	MP ALPHA2	PX	-0.002	-0.002	0	0
75	FACE3	PX	-0.001	-0.001	0	0
76	MP GAMMA1	PX	-0.002	-0.002	0	0



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
77	MP GAMMA3	PX	-0.002	-0.002	0	0
78	RAIL3	PX	-0.001	-0.001	0	0
79	FACE2	PX	-0.001	-0.001	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
85	M68B	PY	-0.002	-0.002	0	0
86	M68B	PX	-0.000972	-0.000972	0	0
87	M70A	PY	-0.002	-0.002	0	0
88	M70A	PX	-0.000972	-0.000972	0	0
89	M72A	PY	-0.002	-0.002	0	0
90	M72A	PX	-0.000972	-0.000972	0	0
91	M74A	PY	-0.002	-0.002	0	0
92	M74A	PX	-0.000972	-0.000972	0	0
93	M76	PY	-0.002	-0.002	0	0
94	M76	PX	-0.000972	-0.000972	0	0
95	M78	PY	-0.002	-0.002	0	0
96	M78	PX	-0.000972	-0.000972	0	0

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	SO1	PY	-0.000816	-0.000816	0	0
2	GRAT SUP	PY	-0.000895	-0.000895	0	0
3	GRAT SUP2	PY	-0.000895	-0.000895	0	0
4	PL1	PY	-0.002	-0.002	0	0
5	SO2	PY	-0.000816	-0.000816	0	0
6	GRAT SUP3	PY	-0.000895	-0.000895	0	0
7	GRAT SUP4	PY	-0.000895	-0.000895	0	0
8	PL2	PY	-0.002	-0.002	0	0
9	SO3	PY	-0.000816	-0.000816	0	0
10	GRAT SUP5	PY	-0.000895	-0.000895	0	0
11	GRAT SUP6	PY	-0.000895	-0.000895	0	0
12	PL3	PY	-0.002	-0.002	0	0
13	FACE1	PY	-0.00071	-0.00071	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	-0.000583	-0.000583	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	-0.000972	-0.000972	0	0
27	PL5	PY	-0.000972	-0.000972	0	0
28	PL6	PY	-0.000972	-0.000972	0	0
29	PL7	PY	-0.000972	-0.000972	0	0
30	PL8	PY	-0.000972	-0.000972	0	0
31	PL9	PY	-0.000972	-0.000972	0	0
32	MP ALPHA2	PY	-0.002	-0.002	0	0
33	FACE3	PY	-0.001	-0.001	0	0



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]	
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	-0.001	-0.001	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	-0.001	-0.001	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	-0.003	-0.003	0	0
47	SO2	PX	-0.001	-0.001	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	-0.003	-0.003	0	0
51	SO3	PX	-0.001	-0.001	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	-0.003	-0.003	0	0
55	FACE1	PX	-0.001	-0.001	0	0
56	MP ALPHA1	PX	-0.003	-0.003	0	0
57	MP ALPHA3	PX	-0.003	-0.003	0	0
58	RAIL1	PX	-0.001	-0.001	0	0
59	RAIL CON3	PX	-0.003	-0.003	0	0
60	RAIL CON1	PX	-0.003	-0.003	0	0
61	RAIL CON2	PX	-0.003	-0.003	0	0
62	CR1	PX	-0.002	-0.002	0	0
63	CR2	PX	-0.002	-0.002	0	0
64	CR3	PX	-0.002	-0.002	0	0
65	CR4	PX	-0.002	-0.002	0	0
66	CR5	PX	-0.002	-0.002	0	0
67	CR6	PX	-0.002	-0.002	0	0
68	PL4	PX	-0.002	-0.002	0	0
69	PL5	PX	-0.002	-0.002	0	0
70	PL6	PX	-0.002	-0.002	0	0
71	PL7	PX	-0.002	-0.002	0	0
72	PL8	PX	-0.002	-0.002	0	0
73	PL9	PX	-0.002	-0.002	0	0
74	MP ALPHA2	PX	-0.003	-0.003	0	0
75	FACE3	PX	-0.002	-0.002	0	0
76	MP GAMMA1	PX	-0.003	-0.003	0	0
77	MP GAMMA3	PX	-0.003	-0.003	0	0
78	RAIL3	PX	-0.002	-0.002	0	0
79	FACE2	PX	-0.002	-0.002	0	0
80	MP BETA1	PX	-0.003	-0.003	0	0
81	MP BETA3	PX	-0.003	-0.003	0	0
82	RAIL2	PX	-0.002	-0.002	0	0
83	MP BETA2	PX	-0.003	-0.003	0	0
84	MP GAMMA2	PX	-0.003	-0.003	0	0
85	M68B	PY	-0.000972	-0.000972	0	0
86	M68B	PX	-0.002	-0.002	0	0
87	M70A	PY	-0.000972	-0.000972	0	0
88	M70A	PX	-0.002	-0.002	0	0
89	M72A	PY	-0.000972	-0.000972	0	0
90	M72A	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[lb/ft....	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
91	M74A	PY	-0.00972	-0.00972	0	0
92	M74A	PX	-0.002	-0.002	0	0
93	M76	PY	-0.00972	-0.00972	0	0
94	M76	PX	-0.002	-0.002	0	0
95	M78	PY	-0.00972	-0.00972	0	0
96	M78	PX	-0.002	-0.002	0	0

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	SO1	PX	-0.002	-0.002	0	0
2	GRAT SUP	PX	-0.002	-0.002	0	0
3	GRAT SUP2	PX	-0.002	-0.002	0	0
4	PL1	PX	-0.004	-0.004	0	0
5	SO2	PX	-0.002	-0.002	0	0
6	GRAT SUP3	PX	-0.002	-0.002	0	0
7	GRAT SUP4	PX	-0.002	-0.002	0	0
8	PL2	PX	-0.004	-0.004	0	0
9	SO3	PX	-0.002	-0.002	0	0
10	GRAT SUP5	PX	-0.002	-0.002	0	0
11	GRAT SUP6	PX	-0.002	-0.002	0	0
12	PL3	PX	-0.004	-0.004	0	0
13	FACE2	PX	-0.001	-0.001	0	0
14	MP ALPHA1	PX	-0.004	-0.004	0	0
15	MP ALPHA3	PX	-0.004	-0.004	0	0
16	RAIL2	PX	-0.001	-0.001	0	0
17	RAIL CON3	PX	-0.004	-0.004	0	0
18	RAIL CON1	PX	-0.004	-0.004	0	0
19	RAIL CON2	PX	-0.004	-0.004	0	0
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	-0.002	-0.002	0	0
27	PL5	PX	-0.002	-0.002	0	0
28	PL6	PX	-0.002	-0.002	0	0
29	PL7	PX	-0.002	-0.002	0	0
30	PL8	PX	-0.002	-0.002	0	0
31	PL9	PX	-0.002	-0.002	0	0
32	MP ALPHA2	PX	-0.004	-0.004	0	0
33	FACE3	PX	-0.003	-0.003	0	0
34	MP GAMMA1	PX	-0.004	-0.004	0	0
35	MP GAMMA3	PX	-0.004	-0.004	0	0
36	RAIL3	PX	-0.002	-0.002	0	0
37	FACE1	PX	-0.003	-0.003	0	0
38	MP BETA1	PX	-0.004	-0.004	0	0
39	MP BETA3	PX	-0.004	-0.004	0	0
40	RAIL1	PX	-0.002	-0.002	0	0
41	MP BETA2	PX	-0.004	-0.004	0	0
42	MP GAMMA2	PX	-0.004	-0.004	0	0
43	M68B	PX	-0.002	-0.002	0	0
44	M70A	PX	-0.002	-0.002	0	0
45	M72A	PX	-0.002	-0.002	0	0
46	M74A	PX	-0.002	-0.002	0	0
47	M76	PX	-0.002	-0.002	0	0



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
48	M78	PX	-0.002	-0.002	0	0

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	SO1	PY	.000816	.000816	0	0
2	GRAT SUP	PY	.000895	.000895	0	0
3	GRAT SUP2	PY	.000895	.000895	0	0
4	PL1	PY	.002	.002	0	0
5	SO2	PY	.000816	.000816	0	0
6	GRAT SUP3	PY	.000895	.000895	0	0
7	GRAT SUP4	PY	.000895	.000895	0	0
8	PL2	PY	.002	.002	0	0
9	SO3	PY	.000816	.000816	0	0
10	GRAT SUP5	PY	.000895	.000895	0	0
11	GRAT SUP6	PY	.000895	.000895	0	0
12	PL3	PY	.002	.002	0	0
13	FACE2	PY	.00071	.00071	0	0
14	MP ALPHA1	PY	.002	.002	0	0
15	MP ALPHA3	PY	.002	.002	0	0
16	RAIL2	PY	.000583	.000583	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	.000972	.000972	0	0
27	PL5	PY	.000972	.000972	0	0
28	PL6	PY	.000972	.000972	0	0
29	PL7	PY	.000972	.000972	0	0
30	PL8	PY	.000972	.000972	0	0
31	PL9	PY	.000972	.000972	0	0
32	MP ALPHA2	PY	.002	.002	0	0
33	FACE3	PY	.001	.001	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	.001	.001	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	-0.001	-0.001	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	-0.003	-0.003	0	0
47	SO2	PX	-0.001	-0.001	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	-0.003	-0.003	0	0
51	SO3	PX	-0.001	-0.001	0	0
52	GRAT SUP5	PX	-0.002	-0.002	0	0



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
53	GRAT SUP6	PX	-0.002	-0.002	0	0
54	PL3	PX	-0.003	-0.003	0	0
55	FACE2	PX	-0.001	-0.001	0	0
56	MP ALPHA1	PX	-0.003	-0.003	0	0
57	MP ALPHA3	PX	-0.003	-0.003	0	0
58	RAIL2	PX	-0.001	-0.001	0	0
59	RAIL CON3	PX	-0.003	-0.003	0	0
60	RAIL CON1	PX	-0.003	-0.003	0	0
61	RAIL CON2	PX	-0.003	-0.003	0	0
62	CR1	PX	-0.002	-0.002	0	0
63	CR2	PX	-0.002	-0.002	0	0
64	CR3	PX	-0.002	-0.002	0	0
65	CR4	PX	-0.002	-0.002	0	0
66	CR5	PX	-0.002	-0.002	0	0
67	CR6	PX	-0.002	-0.002	0	0
68	PL4	PX	-0.002	-0.002	0	0
69	PL5	PX	-0.002	-0.002	0	0
70	PL6	PX	-0.002	-0.002	0	0
71	PL7	PX	-0.002	-0.002	0	0
72	PL8	PX	-0.002	-0.002	0	0
73	PL9	PX	-0.002	-0.002	0	0
74	MP ALPHA2	PX	-0.003	-0.003	0	0
75	FACE3	PX	-0.002	-0.002	0	0
76	MP GAMMA1	PX	-0.003	-0.003	0	0
77	MP GAMMA3	PX	-0.003	-0.003	0	0
78	RAIL3	PX	-0.002	-0.002	0	0
79	FACE1	PX	-0.002	-0.002	0	0
80	MP BETA1	PX	-0.003	-0.003	0	0
81	MP BETA3	PX	-0.003	-0.003	0	0
82	RAIL1	PX	-0.002	-0.002	0	0
83	MP BETA2	PX	-0.003	-0.003	0	0
84	MP GAMMA2	PX	-0.003	-0.003	0	0
85	M68B	PY	.000972	.000972	0	0
86	M68B	PX	-0.002	-0.002	0	0
87	M70A	PY	.000972	.000972	0	0
88	M70A	PX	-0.002	-0.002	0	0
89	M72A	PY	.000972	.000972	0	0
90	M72A	PX	-0.002	-0.002	0	0
91	M74A	PY	.000972	.000972	0	0
92	M74A	PX	-0.002	-0.002	0	0
93	M76	PY	.000972	.000972	0	0
94	M76	PX	-0.002	-0.002	0	0
95	M78	PY	.000972	.000972	0	0
96	M78	PX	-0.002	-0.002	0	0

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	SO1	PY	.001	.001	0	0
2	GRAT SUP	PY	.002	.002	0	0
3	GRAT SUP2	PY	.002	.002	0	0
4	PL1	PY	.003	.003	0	0
5	SO2	PY	.001	.001	0	0
6	GRAT SUP3	PY	.002	.002	0	0
7	GRAT SUP4	PY	.002	.002	0	0
8	PL2	PY	.003	.003	0	0
9	SO3	PY	.001	.001	0	0



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
10	GRAT SUP5	PY	.002	.002	0	0
11	GRAT SUP6	PY	.002	.002	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	.001	.001	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	.002	.002	0	0
27	PL5	PY	.002	.002	0	0
28	PL6	PY	.002	.002	0	0
29	PL7	PY	.002	.002	0	0
30	PL8	PY	.002	.002	0	0
31	PL9	PY	.002	.002	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
43	SO1	PX	-.000816	-.000816	0	0
44	GRAT SUP	PX	-.000895	-.000895	0	0
45	GRAT SUP2	PX	-.000895	-.000895	0	0
46	PL1	PX	-.002	-.002	0	0
47	SO2	PX	-.000816	-.000816	0	0
48	GRAT SUP3	PX	-.000895	-.000895	0	0
49	GRAT SUP4	PX	-.000895	-.000895	0	0
50	PL2	PX	-.002	-.002	0	0
51	SO3	PX	-.000816	-.000816	0	0
52	GRAT SUP5	PX	-.000895	-.000895	0	0
53	GRAT SUP6	PX	-.000895	-.000895	0	0
54	PL3	PX	-.002	-.002	0	0
55	FACE2	PX	-.00071	-.00071	0	0
56	MP ALPHA1	PX	-.002	-.002	0	0
57	MP ALPHA3	PX	-.002	-.002	0	0
58	RAIL2	PX	-.000583	-.000583	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

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
67	CR6	PX	-.001	-.001	0	0
68	PL4	PX	-.000972	-.000972	0	0
69	PL5	PX	-.000972	-.000972	0	0
70	PL6	PX	-.000972	-.000972	0	0
71	PL7	PX	-.000972	-.000972	0	0
72	PL8	PX	-.000972	-.000972	0	0
73	PL9	PX	-.000972	-.000972	0	0
74	MP ALPHA2	PX	-.002	-.002	0	0
75	FACE3	PX	-.001	-.001	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	-.001	-.001	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
85	M68B	PY	.002	.002	0	0
86	M68B	PX	-.000972	-.000972	0	0
87	M70A	PY	.002	.002	0	0
88	M70A	PX	-.000972	-.000972	0	0
89	M72A	PY	.002	.002	0	0
90	M72A	PX	-.000972	-.000972	0	0
91	M74A	PY	.002	.002	0	0
92	M74A	PX	-.000972	-.000972	0	0
93	M76	PY	.002	.002	0	0
94	M76	PX	-.000972	-.000972	0	0
95	M78	PY	.002	.002	0	0
96	M78	PX	-.000972	-.000972	0	0

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	SO1	PY	.002	.002	0	0
2	GRAT SUP	PY	.002	.002	0	0
3	GRAT SUP2	PY	.002	.002	0	0
4	PL1	PY	.004	.004	0	0
5	SO2	PY	.002	.002	0	0
6	GRAT SUP3	PY	.002	.002	0	0
7	GRAT SUP4	PY	.002	.002	0	0
8	PL2	PY	.004	.004	0	0
9	SO3	PY	.002	.002	0	0
10	GRAT SUP5	PY	.002	.002	0	0
11	GRAT SUP6	PY	.002	.002	0	0
12	PL3	PY	.004	.004	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	.004	.004	0	0
18	RAIL CON1	PY	.004	.004	0	0
19	RAIL CON2	PY	.004	.004	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



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
24	CR5	PY	.002	.002	0	0
25	CR6	PY	.002	.002	0	0
26	PL4	PY	.002	.002	0	0
27	PL5	PY	.002	.002	0	0
28	PL6	PY	.002	.002	0	0
29	PL7	PY	.002	.002	0	0
30	PL8	PY	.002	.002	0	0
31	PL9	PY	.002	.002	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	M68B	PY	.002	.002	0	0
44	M70A	PY	.002	.002	0	0
45	M72A	PY	.002	.002	0	0
46	M74A	PY	.002	.002	0	0
47	M76	PY	.002	.002	0	0
48	M78	PY	.002	.002	0	0

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	SO1	PY	.001	.001	0	0
2	GRAT SUP	PY	.002	.002	0	0
3	GRAT SUP2	PY	.002	.002	0	0
4	PL1	PY	.003	.003	0	0
5	SO2	PY	.001	.001	0	0
6	GRAT SUP3	PY	.002	.002	0	0
7	GRAT SUP4	PY	.002	.002	0	0
8	PL2	PY	.003	.003	0	0
9	SO3	PY	.001	.001	0	0
10	GRAT SUP5	PY	.002	.002	0	0
11	GRAT SUP6	PY	.002	.002	0	0
12	PL3	PY	.003	.003	0	0
13	FACE3	PY	.001	.001	0	0
14	MP ALPHA1	PY	.003	.003	0	0
15	MP ALPHA3	PY	.003	.003	0	0
16	RAIL3	PY	.001	.001	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	.002	.002	0	0
27	PL5	PY	.002	.002	0	0
28	PL6	PY	.002	.002	0	0



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
29	PL7	PY	.002	.002	0	0
30	PL8	PY	.002	.002	0	0
31	PL9	PY	.002	.002	0	0
32	MP ALPHA2	PY	.003	.003	0	0
33	FACE1	PY	.002	.002	0	0
34	MP GAMMA1	PY	.003	.003	0	0
35	MP GAMMA3	PY	.003	.003	0	0
36	RAIL1	PY	.002	.002	0	0
37	FACE2	PY	.002	.002	0	0
38	MP BETA1	PY	.003	.003	0	0
39	MP BETA3	PY	.003	.003	0	0
40	RAIL2	PY	.002	.002	0	0
41	MP BETA2	PY	.003	.003	0	0
42	MP GAMMA2	PY	.003	.003	0	0
43	SO1	PX	.000816	.000816	0	0
44	GRAT SUP	PX	.000895	.000895	0	0
45	GRAT SUP2	PX	.000895	.000895	0	0
46	PL1	PX	.002	.002	0	0
47	SO2	PX	.000816	.000816	0	0
48	GRAT SUP3	PX	.000895	.000895	0	0
49	GRAT SUP4	PX	.000895	.000895	0	0
50	PL2	PX	.002	.002	0	0
51	SO3	PX	.000816	.000816	0	0
52	GRAT SUP5	PX	.000895	.000895	0	0
53	GRAT SUP6	PX	.000895	.000895	0	0
54	PL3	PX	.002	.002	0	0
55	FACE3	PX	.00071	.00071	0	0
56	MP ALPHA1	PX	.002	.002	0	0
57	MP ALPHA3	PX	.002	.002	0	0
58	RAIL3	PX	.000583	.000583	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	.000972	.000972	0	0
69	PL5	PX	.000972	.000972	0	0
70	PL6	PX	.000972	.000972	0	0
71	PL7	PX	.000972	.000972	0	0
72	PL8	PX	.000972	.000972	0	0
73	PL9	PX	.000972	.000972	0	0
74	MP ALPHA2	PX	.002	.002	0	0
75	FACE1	PX	.001	.001	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	.001	.001	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
85	M68B	PY	.002	.002	0	0



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
86	M68B	PX	.000972	.000972	0	0
87	M70A	PY	.002	.002	0	0
88	M70A	PX	.000972	.000972	0	0
89	M72A	PY	.002	.002	0	0
90	M72A	PX	.000972	.000972	0	0
91	M74A	PY	.002	.002	0	0
92	M74A	PX	.000972	.000972	0	0
93	M76	PY	.002	.002	0	0
94	M76	PX	.000972	.000972	0	0
95	M78	PY	.002	.002	0	0
96	M78	PX	.000972	.000972	0	0

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	SO1	PY	.000816	.000816	0	0
2	GRAT SUP	PY	.000895	.000895	0	0
3	GRAT SUP2	PY	.000895	.000895	0	0
4	PL1	PY	.002	.002	0	0
5	SO2	PY	.000816	.000816	0	0
6	GRAT SUP3	PY	.000895	.000895	0	0
7	GRAT SUP4	PY	.000895	.000895	0	0
8	PL2	PY	.002	.002	0	0
9	SO3	PY	.000816	.000816	0	0
10	GRAT SUP5	PY	.000895	.000895	0	0
11	GRAT SUP6	PY	.000895	.000895	0	0
12	PL3	PY	.002	.002	0	0
13	FACE3	PY	.00071	.00071	0	0
14	MP ALPHA1	PY	.002	.002	0	0
15	MP ALPHA3	PY	.002	.002	0	0
16	RAIL3	PY	.000583	.000583	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	.000972	.000972	0	0
27	PL5	PY	.000972	.000972	0	0
28	PL6	PY	.000972	.000972	0	0
29	PL7	PY	.000972	.000972	0	0
30	PL8	PY	.000972	.000972	0	0
31	PL9	PY	.000972	.000972	0	0
32	MP ALPHA2	PY	.002	.002	0	0
33	FACE1	PY	.001	.001	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	.001	.001	0	0
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



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]	
43	SO1	PX	.001	.001	0	0
44	GRAT SUP	PX	.002	.002	0	0
45	GRAT SUP2	PX	.002	.002	0	0
46	PL1	PX	.003	.003	0	0
47	SO2	PX	.001	.001	0	0
48	GRAT SUP3	PX	.002	.002	0	0
49	GRAT SUP4	PX	.002	.002	0	0
50	PL2	PX	.003	.003	0	0
51	SO3	PX	.001	.001	0	0
52	GRAT SUP5	PX	.002	.002	0	0
53	GRAT SUP6	PX	.002	.002	0	0
54	PL3	PX	.003	.003	0	0
55	FACE3	PX	.001	.001	0	0
56	MP ALPHA1	PX	.003	.003	0	0
57	MP ALPHA3	PX	.003	.003	0	0
58	RAIL3	PX	.001	.001	0	0
59	RAIL CON3	PX	.003	.003	0	0
60	RAIL CON1	PX	.003	.003	0	0
61	RAIL CON2	PX	.003	.003	0	0
62	CR1	PX	.002	.002	0	0
63	CR2	PX	.002	.002	0	0
64	CR3	PX	.002	.002	0	0
65	CR4	PX	.002	.002	0	0
66	CR5	PX	.002	.002	0	0
67	CR6	PX	.002	.002	0	0
68	PL4	PX	.002	.002	0	0
69	PL5	PX	.002	.002	0	0
70	PL6	PX	.002	.002	0	0
71	PL7	PX	.002	.002	0	0
72	PL8	PX	.002	.002	0	0
73	PL9	PX	.002	.002	0	0
74	MP ALPHA2	PX	.003	.003	0	0
75	FACE1	PX	.002	.002	0	0
76	MP GAMMA1	PX	.003	.003	0	0
77	MP GAMMA3	PX	.003	.003	0	0
78	RAIL1	PX	.002	.002	0	0
79	FACE2	PX	.002	.002	0	0
80	MP BETA1	PX	.003	.003	0	0
81	MP BETA3	PX	.003	.003	0	0
82	RAIL2	PX	.002	.002	0	0
83	MP BETA2	PX	.003	.003	0	0
84	MP GAMMA2	PX	.003	.003	0	0
85	M68B	PY	.000972	.000972	0	0
86	M68B	PX	.002	.002	0	0
87	M70A	PY	.000972	.000972	0	0
88	M70A	PX	.002	.002	0	0
89	M72A	PY	.000972	.000972	0	0
90	M72A	PX	.002	.002	0	0
91	M74A	PY	.000972	.000972	0	0
92	M74A	PX	.002	.002	0	0
93	M76	PY	.000972	.000972	0	0
94	M76	PX	.002	.002	0	0
95	M78	PY	.000972	.000972	0	0
96	M78	PX	.002	.002	0	0

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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
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Member Distributed Loads (BLC 37 : Ice Wind Load (270)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	SO1	PX	.002	.002	0	0
2	GRAT SUP	PX	.002	.002	0	0
3	GRAT SUP2	PX	.002	.002	0	0
4	PL1	PX	.004	.004	0	0
5	SO2	PX	.002	.002	0	0
6	GRAT SUP3	PX	.002	.002	0	0
7	GRAT SUP4	PX	.002	.002	0	0
8	PL2	PX	.004	.004	0	0
9	SO3	PX	.002	.002	0	0
10	GRAT SUP5	PX	.002	.002	0	0
11	GRAT SUP6	PX	.002	.002	0	0
12	PL3	PX	.004	.004	0	0
13	FACE3	PX	.001	.001	0	0
14	MP ALPHA1	PX	.004	.004	0	0
15	MP ALPHA3	PX	.004	.004	0	0
16	RAIL3	PX	.001	.001	0	0
17	RAIL CON3	PX	.004	.004	0	0
18	RAIL CON1	PX	.004	.004	0	0
19	RAIL CON2	PX	.004	.004	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	.002	.002	0	0
27	PL5	PX	.002	.002	0	0
28	PL6	PX	.002	.002	0	0
29	PL7	PX	.002	.002	0	0
30	PL8	PX	.002	.002	0	0
31	PL9	PX	.002	.002	0	0
32	MP ALPHA2	PX	.004	.004	0	0
33	FACE1	PX	.003	.003	0	0
34	MP GAMMA1	PX	.004	.004	0	0
35	MP GAMMA3	PX	.004	.004	0	0
36	RAIL1	PX	.002	.002	0	0
37	FACE2	PX	.003	.003	0	0
38	MP BETA1	PX	.004	.004	0	0
39	MP BETA3	PX	.004	.004	0	0
40	RAIL2	PX	.002	.002	0	0
41	MP BETA2	PX	.004	.004	0	0
42	MP GAMMA2	PX	.004	.004	0	0
43	M68B	PX	.002	.002	0	0
44	M70A	PX	.002	.002	0	0
45	M72A	PX	.002	.002	0	0
46	M74A	PX	.002	.002	0	0
47	M76	PX	.002	.002	0	0
48	M78	PX	.002	.002	0	0

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	SO1	PY	-.000816	-.000816	0	0
2	GRAT SUP	PY	-.000895	-.000895	0	0
3	GRAT SUP2	PY	-.000895	-.000895	0	0
4	PL1	PY	-.002	-.002	0	0
5	SO2	PY	-.000816	-.000816	0	0



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]	
6	GRAT SUP3	PY	-0.00895	-0.00895	0	0
7	GRAT SUP4	PY	-0.00895	-0.00895	0	0
8	PL2	PY	-0.002	-0.002	0	0
9	SO3	PY	-0.00816	-0.00816	0	0
10	GRAT SUP5	PY	-0.00895	-0.00895	0	0
11	GRAT SUP6	PY	-0.00895	-0.00895	0	0
12	PL3	PY	-0.002	-0.002	0	0
13	FACE3	PY	-0.00071	-0.00071	0	0
14	MP ALPHA1	PY	-0.002	-0.002	0	0
15	MP ALPHA3	PY	-0.002	-0.002	0	0
16	RAIL3	PY	-0.000583	-0.000583	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	-0.000972	-0.000972	0	0
27	PL5	PY	-0.000972	-0.000972	0	0
28	PL6	PY	-0.000972	-0.000972	0	0
29	PL7	PY	-0.000972	-0.000972	0	0
30	PL8	PY	-0.000972	-0.000972	0	0
31	PL9	PY	-0.000972	-0.000972	0	0
32	MP ALPHA2	PY	-0.002	-0.002	0	0
33	FACE1	PY	-0.001	-0.001	0	0
34	MP GAMMA1	PY	-0.002	-0.002	0	0
35	MP GAMMA3	PY	-0.002	-0.002	0	0
36	RAIL1	PY	-0.001	-0.001	0	0
37	FACE2	PY	-0.001	-0.001	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	.001	.001	0	0
44	GRAT SUP	PX	.002	.002	0	0
45	GRAT SUP2	PX	.002	.002	0	0
46	PL1	PX	.003	.003	0	0
47	SO2	PX	.001	.001	0	0
48	GRAT SUP3	PX	.002	.002	0	0
49	GRAT SUP4	PX	.002	.002	0	0
50	PL2	PX	.003	.003	0	0
51	SO3	PX	.001	.001	0	0
52	GRAT SUP5	PX	.002	.002	0	0
53	GRAT SUP6	PX	.002	.002	0	0
54	PL3	PX	.003	.003	0	0
55	FACE3	PX	.001	.001	0	0
56	MP ALPHA1	PX	.003	.003	0	0
57	MP ALPHA3	PX	.003	.003	0	0
58	RAIL3	PX	.001	.001	0	0
59	RAIL CON3	PX	.003	.003	0	0
60	RAIL CON1	PX	.003	.003	0	0
61	RAIL CON2	PX	.003	.003	0	0
62	CR1	PX	.002	.002	0	0



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
63	CR2	PX	.002	.002	0	0
64	CR3	PX	.002	.002	0	0
65	CR4	PX	.002	.002	0	0
66	CR5	PX	.002	.002	0	0
67	CR6	PX	.002	.002	0	0
68	PL4	PX	.002	.002	0	0
69	PL5	PX	.002	.002	0	0
70	PL6	PX	.002	.002	0	0
71	PL7	PX	.002	.002	0	0
72	PL8	PX	.002	.002	0	0
73	PL9	PX	.002	.002	0	0
74	MP ALPHA2	PX	.003	.003	0	0
75	FACE1	PX	.002	.002	0	0
76	MP GAMMA1	PX	.003	.003	0	0
77	MP GAMMA3	PX	.003	.003	0	0
78	RAIL1	PX	.002	.002	0	0
79	FACE2	PX	.002	.002	0	0
80	MP BETA1	PX	.003	.003	0	0
81	MP BETA3	PX	.003	.003	0	0
82	RAIL2	PX	.002	.002	0	0
83	MP BETA2	PX	.003	.003	0	0
84	MP GAMMA2	PX	.003	.003	0	0
85	M68B	PY	-0.00972	-0.00972	0	0
86	M68B	PX	.002	.002	0	0
87	M70A	PY	-0.00972	-0.00972	0	0
88	M70A	PX	.002	.002	0	0
89	M72A	PY	-0.00972	-0.00972	0	0
90	M72A	PX	.002	.002	0	0
91	M74A	PY	-0.00972	-0.00972	0	0
92	M74A	PX	.002	.002	0	0
93	M76	PY	-0.00972	-0.00972	0	0
94	M76	PX	.002	.002	0	0
95	M78	PY	-0.00972	-0.00972	0	0
96	M78	PX	.002	.002	0	0

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	SO1	PY	-.001	-.001	0	0
2	GRAT SUP	PY	-.002	-.002	0	0
3	GRAT SUP2	PY	-.002	-.002	0	0
4	PL1	PY	-.003	-.003	0	0
5	SO2	PY	-.001	-.001	0	0
6	GRAT SUP3	PY	-.002	-.002	0	0
7	GRAT SUP4	PY	-.002	-.002	0	0
8	PL2	PY	-.003	-.003	0	0
9	SO3	PY	-.001	-.001	0	0
10	GRAT SUP5	PY	-.002	-.002	0	0
11	GRAT SUP6	PY	-.002	-.002	0	0
12	PL3	PY	-.003	-.003	0	0
13	FACE1	PY	-.001	-.001	0	0
14	MP ALPHA1	PY	-.003	-.003	0	0
15	MP ALPHA3	PY	-.003	-.003	0	0
16	RAIL1	PY	-.001	-.001	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



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
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	-0.002	-0.002	0	0
27	PL5	PY	-0.002	-0.002	0	0
28	PL6	PY	-0.002	-0.002	0	0
29	PL7	PY	-0.002	-0.002	0	0
30	PL8	PY	-0.002	-0.002	0	0
31	PL9	PY	-0.002	-0.002	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
43	SO1	PX	.000816	.000816	0	0
44	GRAT SUP	PX	.000895	.000895	0	0
45	GRAT SUP2	PX	.000895	.000895	0	0
46	PL1	PX	.002	.002	0	0
47	SO2	PX	.000816	.000816	0	0
48	GRAT SUP3	PX	.000895	.000895	0	0
49	GRAT SUP4	PX	.000895	.000895	0	0
50	PL2	PX	.002	.002	0	0
51	SO3	PX	.000816	.000816	0	0
52	GRAT SUP5	PX	.000895	.000895	0	0
53	GRAT SUP6	PX	.000895	.000895	0	0
54	PL3	PX	.002	.002	0	0
55	FACE1	PX	.00071	.00071	0	0
56	MP ALPHA1	PX	.002	.002	0	0
57	MP ALPHA3	PX	.002	.002	0	0
58	RAIL1	PX	.000583	.000583	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	.000972	.000972	0	0
69	PL5	PX	.000972	.000972	0	0
70	PL6	PX	.000972	.000972	0	0
71	PL7	PX	.000972	.000972	0	0
72	PL8	PX	.000972	.000972	0	0
73	PL9	PX	.000972	.000972	0	0
74	MP ALPHA2	PX	.002	.002	0	0
75	FACE3	PX	.001	.001	0	0
76	MP GAMMA1	PX	.002	.002	0	0



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
77	MP GAMMA3	PX	.002	.002	0	0
78	RAIL3	PX	.001	.001	0	0
79	FACE2	PX	.001	.001	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
85	M68B	PY	-.002	-.002	0	0
86	M68B	PX	.000972	.000972	0	0
87	M70A	PY	-.002	-.002	0	0
88	M70A	PX	.000972	.000972	0	0
89	M72A	PY	-.002	-.002	0	0
90	M72A	PX	.000972	.000972	0	0
91	M74A	PY	-.002	-.002	0	0
92	M74A	PX	.000972	.000972	0	0
93	M76	PY	-.002	-.002	0	0
94	M76	PX	.000972	.000972	0	0
95	M78	PY	-.002	-.002	0	0
96	M78	PX	.000972	.000972	0	0

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	SO2	Z	-.018	-.018	0	1.966
2	GRAT SUP3	Z	-.009	-.009	.319	2.275
3	GRAT SUP4	Z	-.009	-.009	.319	2.275
4	SO3	Z	-.018	-.018	0	1.966
5	GRAT SUP5	Z	-.009	-.009	.319	2.275
6	GRAT SUP6	Z	-.009	-.009	.319	2.275
7	SO1	Z	-.018	-.018	0	1.966
8	GRAT SUP	Z	-.009	-.009	.319	2.275
9	GRAT SUP2	Z	-.009	-.009	.319	2.275

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	SO2	Z	-.025	-.025	0	1.966
2	GRAT SUP3	Z	-.013	-.013	.319	2.275
3	GRAT SUP4	Z	-.013	-.013	.319	2.275
4	SO3	Z	-.025	-.025	0	1.966
5	GRAT SUP5	Z	-.013	-.013	.319	2.275
6	GRAT SUP6	Z	-.013	-.013	.319	2.275
7	SO1	Z	-.025	-.025	0	1.966
8	GRAT SUP	Z	-.013	-.013	.319	2.275
9	GRAT SUP2	Z	-.013	-.013	.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



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

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[psf]
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	.43	5	.756	5	1.148	33	-.39	17	-.745	14	.894	5
2		min	-.447	23	-.756	23	.504	14	-1.249	35	-2.092	32	-.923	23
3	P13	max	.447	17	.756	35	1.609	10	-.39	23	2.971	10	.923	17
4		min	-.43	35	-.756	17	.504	26	-2.46	7	.745	26	-.894	35
5	P1	max	.814	11	.144	2	1.056	21	2.297	20	.258	11	.83	29
6		min	-.814	29	-.142	20	.438	2	.679	2	-.258	29	-.83	11
7	Totals:	max	1.297	11	1.335	2	3.205	21						
8		min	-1.297	29	-1.335	20	2.332	2						

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	48	
3	Dead Load	DL			-1.1		13		3
4	Wind Load (30)	DL					26	96	
5	Wind Load (60)	DL					26	96	
6	Wind Load (90)	DL					13	48	
7	Wind Load (120)	DL					26	96	
8	Wind Load (150)	DL					26	96	
9	Wind Load (180)	DL					13	48	
10	Wind Load (210)	DL					26	96	
11	Wind Load (240)	DL					26	96	
12	Wind Load (270)	DL					13	48	
13	Wind Load (300)	DL					26	96	
14	Wind Load (330)	DL					26	96	
15	Maintenance (0)	DL					13	48	
16	Maintenance (30)	DL					26	96	
17	Maintenance (60)	DL					26	96	
18	Maintenance (90)	DL					13	48	
19	Maintenance (120)	DL					26	96	
20	Maintenance (150)	DL					26	96	
21	Maintenance (180)	DL					13	48	
22	Maintenance (210)	DL					26	96	
23	Maintenance (240)	DL					26	96	
24	Maintenance (270)	DL					13	48	
25	Maintenance (300)	DL					26	96	
26	Maintenance (330)	DL					26	96	
27	Ice Dead Load	DL					13	48	3
28	Ice Wind Load (0)	DL					13	48	
29	Ice Wind Load (30)	DL					26	96	
30	Ice Wind Load (60)	DL					26	96	
31	Ice Wind Load (90)	DL					13	48	
32	Ice Wind Load (120)	DL					26	96	
33	Ice Wind Load (150)	DL					26	96	
34	Ice Wind Load (180)	DL					13	48	
35	Ice Wind Load (210)	DL					26	96	
36	Ice Wind Load (240)	DL					26	96	
37	Ice Wind Load (270)	DL					13	48	
38	Ice Wind Load (300)	DL					26	96	



Company : POD
 Designer : BL
 Job Number : 21-113672
 Model Name : 876378

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 Checked By: _____

Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...	Surface(P...
39	Ice Wind Load (330)	DL					26	96	
40	Earthquake (x-directio...	DL	- .11				13		
41	Earthquake (y-directio...	DL		- .11			13		
42	Earthquake (z-directio...	DL			- .044		13		
43	BLC 3 Transient Area...	None						9	
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...	
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											



Company : POD
 Designer : BL
 Job Number : 21-113672
 Model Name : 876378

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 Checked By: _____

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	SO2	HSS4X...	.243	3.333	16	.090	3.333	y	4	133.1...	139.5...	16.181	16.181	...	H1-1b
2	CR3	C3.38x2...	.213	0	34	.040	2.349	y	7	47.76	56.7	2.203	5.752	...	H1-1b
3	PL4	5x.25	.204	.125	5	.301	0	y	36	35.461	40.5	.211	4.219	...	H1-1b
4	PL7	5x.25	.204	.125	35	.368	0	y	7	35.461	40.5	.211	4.219	...	H1-1b
5	GRAT SUP4	L2x2x4	.197	2.275	7	.013	2.275	y	9	23.539	30.586	.691	1.577	...	H2-1
6	PL6	5x.25	.193	.125	35	.317	0	y	13	35.461	40.5	.211	4.219	...	H1-1b
7	PL8	5x.25	.193	.125	5	.288	0	y	30	35.461	40.5	.211	4.219	...	H1-1b
8	PL5	5x.25	.186	.125	14	.278	0	y	24	35.461	40.5	.211	4.219	...	H1-1b
9	PL9	5x.25	.186	.125	26	.278	0	y	18	35.461	40.5	.211	4.219	...	H1-1b
10	CR4	C3.38x2...	.185	0	10	.028	0	y	10	47.76	56.7	2.203	5.752	...	H1-1b
11	CR6	C3.38x2...	.176	0	32	.025	0	y	34	47.76	56.7	2.203	5.752	...	H1-1b
12	CR5	C3.38x2...	.174	0	32	.026	2.349	y	29	47.76	56.7	2.203	5.752	...	H1-1b
13	CR2	C3.38x2...	.169	0	20	.026	2.349	y	23	47.76	56.7	2.203	5.752	...	H1-1b
14	CR1	C3.38x2...	.169	0	20	.026	2.349	y	17	47.76	56.7	2.203	5.752	...	H1-1b
15	SO3	HSS4X...	.167	3.333	26	.042	3.333	y	4	133.1...	139.5...	16.181	16.181	...	H1-1b
16	SO1	HSS4X...	.153	3.333	26	.040	3.333	z	11	133.1...	139.5...	16.181	16.181	...	H1-1b
17	PL2	PL 6.5x...	.140	1.595	7	.292	.332	y	7	4.402	78.975	.617	8.842	...	H1-1b
18	RAIL CON3	L6.6x4....	.104	0	20	.011	0	y	7	50.616	87.561	2.465	7.125	...	H2-1
19	RAIL CON2	L6.6x4....	.104	3.5	20	.011	0	y	5	50.616	87.561	2.465	7.125	...	H2-1
20	GRAT SUP3	L2x2x4	.103	2.275	13	.018	2.275	z	7	23.539	30.586	.691	1.577	...	H2-1
21	PL3	PL 6.5x...	.102	1.595	32	.119	.332	y	29	4.402	78.975	.617	8.168	...	H1-1b
22	RAIL CON1	L6.6x4....	.092	3.5	8	.011	0	y	29	50.616	87.561	2.465	7.125	...	H2-1
23	PL1	PL 6.5x...	.088	1.595	23	.106	2.858	y	23	4.402	78.975	.617	8.276	...	H1-1b
24	M70A	5x.25	.084	.124	4	.432	0	y	7	35.468	40.5	.211	4.219	...	H1-1b
25	MP ALPHA2	PIPE_2.5	.079	2.167	26	.029	2.167		26	33.487	66.654	4.727	4.727	...	H1-1b
26	M68B	5x.25	.079	.124	2	.161	0	y	35	35.468	40.5	.211	4.219	...	H1-1b
27	RAIL1	PIPE_2.5	.079	4	2	.059	7.667		23	33.487	66.654	4.727	4.727	...	H1-1b
28	GRAT SUP6	L2x2x4	.078	2.275	30	.012	2.275	y	36	23.539	30.586	.691	1.577	...	H2-1
29	MP BETA2	PIPE_2.5	.077	2.167	2	.030	2.167		2	33.487	66.654	4.727	4.727	...	H1-1b
30	MP GAMMA2	PIPE_2.5	.077	2.167	2	.030	2.167		2	33.487	66.654	4.727	4.727	...	H1-1b
31	GRAT SUP5	L2x2x4	.076	2.275	36	.013	2.275	z	33	23.539	30.586	.691	1.577	...	H2-1
32	GRAT SUP2	L2x2x4	.072	2.275	17	.012	2.275	y	21	23.539	30.586	.691	1.577	...	H2-1
33	GRAT SUP	L2x2x4	.072	2.275	23	.012	2.275	z	21	23.539	30.586	.691	1.577	...	H2-1
34	MP GAMMA3	PIPE_2.5	.067	5.75	5	.022	2.167		5	33.487	66.654	4.727	4.727	...	H1-1b
35	MP BETA1	PIPE_2.5	.067	5.75	35	.022	2.167		35	33.487	66.654	4.727	4.727	...	H1-1b
36	RAIL3	PIPE_2.5	.066	4	26	.071	.333		5	33.487	66.654	4.727	4.727	...	H1-1b
37	RAIL2	PIPE_2.5	.065	4	14	.071	7.667		35	33.487	66.654	4.727	4.727	...	H1-1b
38	MP ALPHA3	PIPE_2.5	.065	2.167	5	.026	5.75		2	33.487	66.654	4.727	4.727	...	H1-1b
39	MP ALPHA1	PIPE_2.5	.065	2.167	35	.026	5.75		2	33.487	66.654	4.727	4.727	...	H1-1b
40	MP BETA3	PIPE_2.5	.061	5.75	29	.021	2.167		14	33.487	66.654	4.727	4.727	...	H1-1b
41	MP GAMMA1	PIPE_2.5	.061	5.75	11	.021	2.167		26	33.487	66.654	4.727	4.727	...	H1-1b
42	M78	5x.25	.060	.124	26	.176	0	y	29	35.468	40.5	.211	4.219	...	H1-1b
43	M72A	5x.25	.060	.124	14	.176	0	y	11	35.468	40.5	.211	4.219	...	H1-1b
44	M76	5x.25	.059	.124	29	.156	0	y	23	35.468	40.5	.211	4.219	...	H1-1b
45	M74A	5x.25	.059	.124	11	.156	0	y	17	35.468	40.5	.211	4.219	...	H1-1b
46	FACE1	PIPE_3.0	.055	4	23	.032	2.667		8	54.629	85.698	7.555	7.555	...	H1-1b
47	FACE2	PIPE_3.0	.053	4	35	.033	5.333		8	54.629	85.698	7.555	7.555	...	H1-1b
48	FACE3	PIPE_3.0	.049	3.917	5	.033	2.667		32	54.629	85.698	7.555	7.555	...	H1-1b

APPENDIX D
Additional Calculations

POD Job # 21-113672
Site Number 876378
Site Name N. BETHANY / DAVID KLUDGE

Calculations Based on TIA-222-H

Reactions from RISA-3D

Moment 3.749 ft-kip
 Axial 0.156 kips
 Shear 1.5258 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 0.233 in.

Bolt Calculations

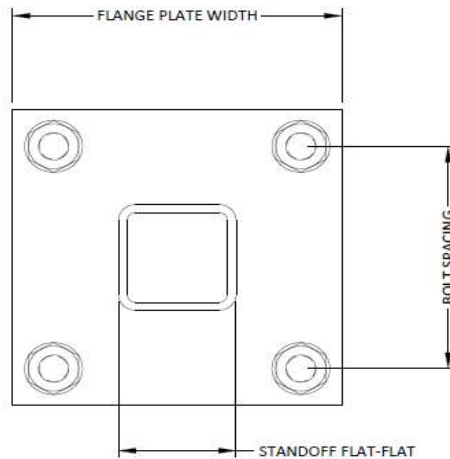
ϕ 0.75
 A_{nt} 0.226 in²
 A_b 0.307 in²
 F_u 120 ksi
 ϕR_{nt} 13.81 kips
 ϕR_{nt} 20.34 kips
 V 0.38 kips
 F 3.25 kips
 Capacity 2.6%

Flange Plate Calculations

ϕ 0.9
 F_y 50 ksi
 t_{min} 0.19 in
 Z 0.9 in³
 ϕM_n 39.6 in-kip
 M_u 9.7 in-kip
 Capacity 24.6%

Capacities

Bolts	2.6%
Flange Plate	24.6%



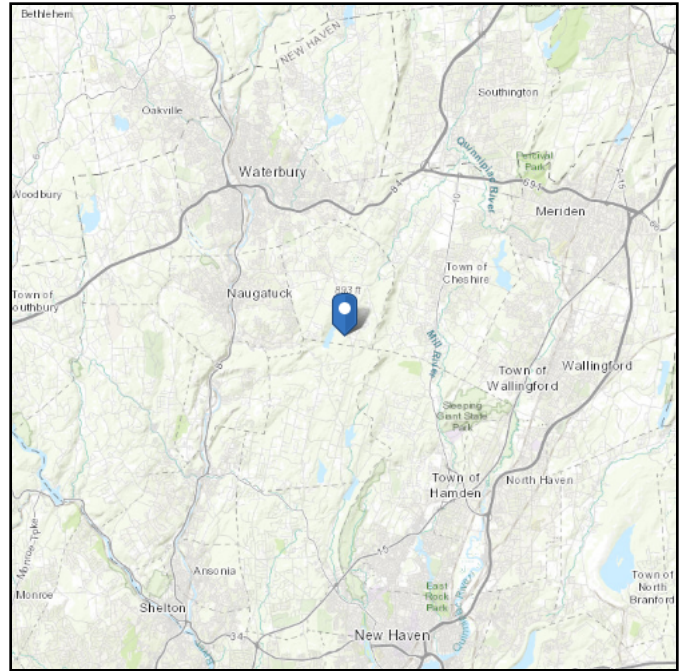
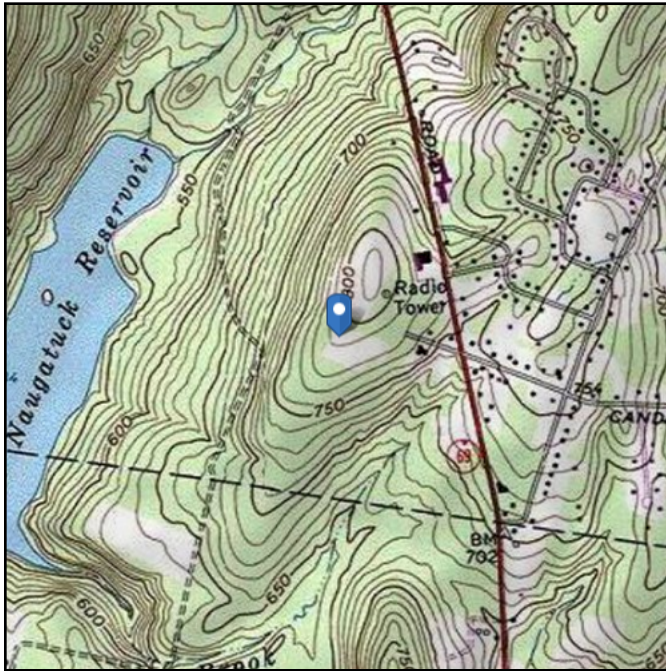
APPENDIX E
Design Criteria

ASCE 7 Hazards Report

Address:
No Address at This Location

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

Elevation: 791.71 ft (NAVD 88)
Latitude: 41.471217
Longitude: -72.971908



Wind

Results:

Wind Speed:	122 Vmph
10-year MRI	76 Vmph
25-year MRI	86 Vmph
50-year MRI	92 Vmph
100-year MRI	99 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).

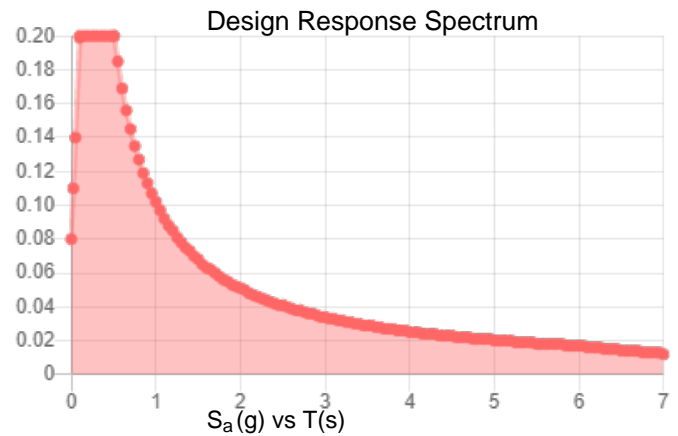
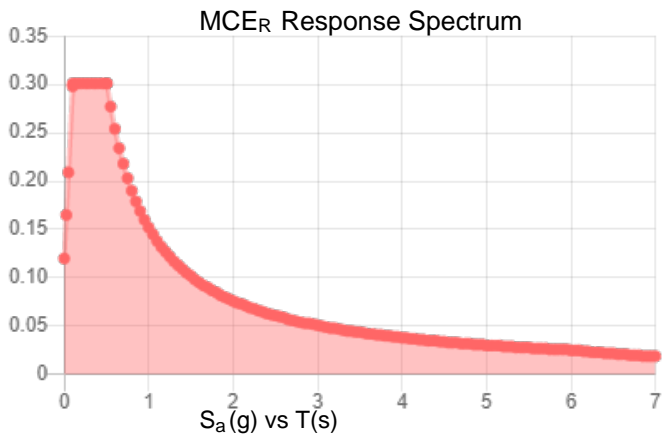
Site is in a hurricane-prone region as defined in ASCE/SEI 7-10 Section 26.2. Glazed openings need not be protected against wind-borne debris.

Site Soil Class: D - Stiff Soil

Results:

S_s :	0.188	S_{DS} :	0.2
S_1 :	0.063	S_{D1} :	0.102
F_a :	1.6	T_L :	6
F_v :	2.4	PGA :	0.098
S_{MS} :	0.301	PGA _M :	0.156
S_{M1} :	0.152	F _{PGA} :	1.6
		I_e :	1

Seismic Design Category B



Data Accessed:

Wed Nov 03 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: 15 F
Gust Speed: 50 mph

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

Date Accessed: Wed Nov 03 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.

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APPENDIX F
Mount Specification Sheets

4

3

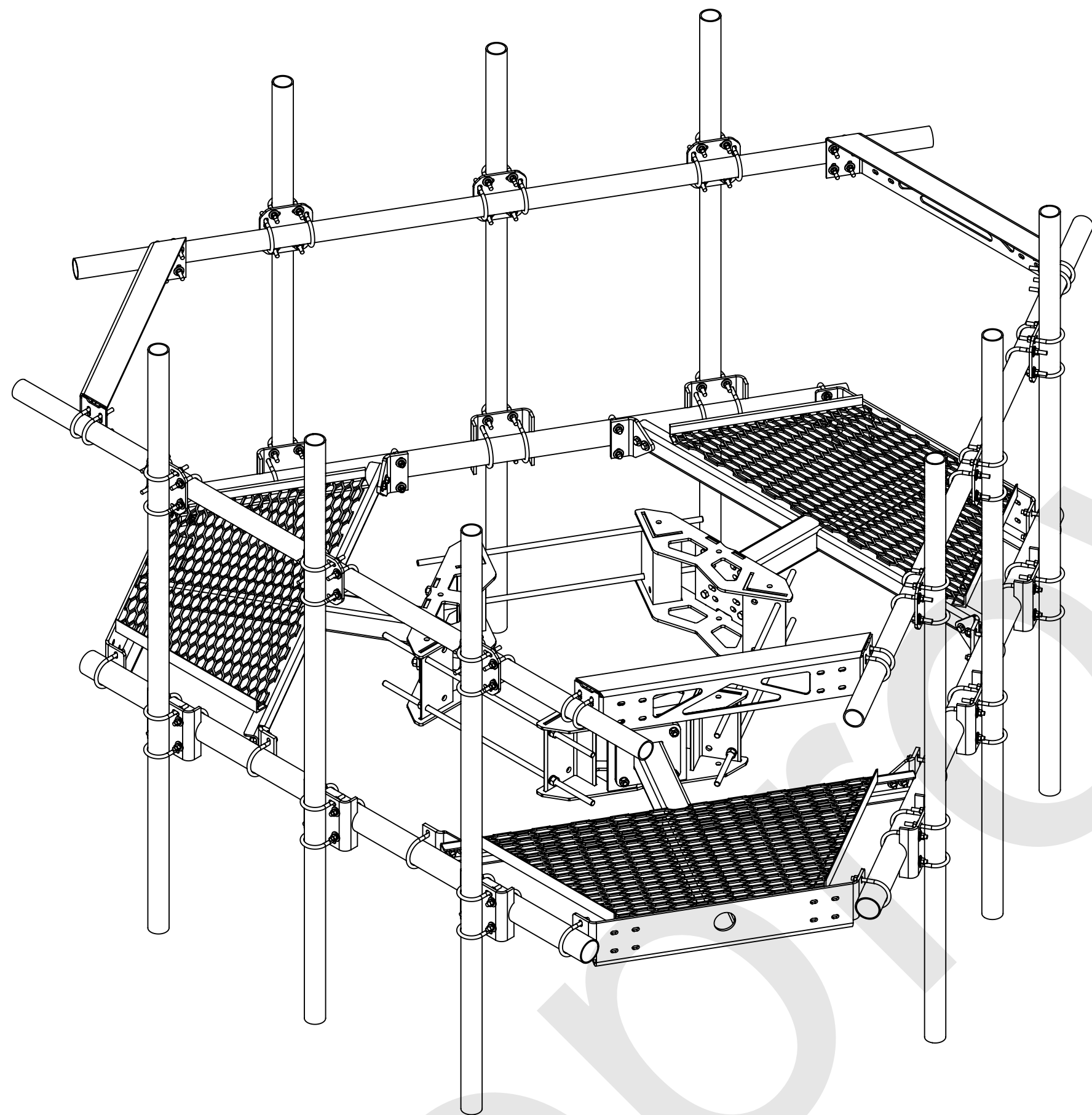
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1

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	DOCUMENT NO.	MC-PK8-DSH						
1:32								
SIZE	Auth Group	INSL	MODEL		DRAWING			SHEET 1 OF 3
C			VERSION	STATUS	REVISION	VERSION	STATUS	
			01	AD		00	AD	A

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

1

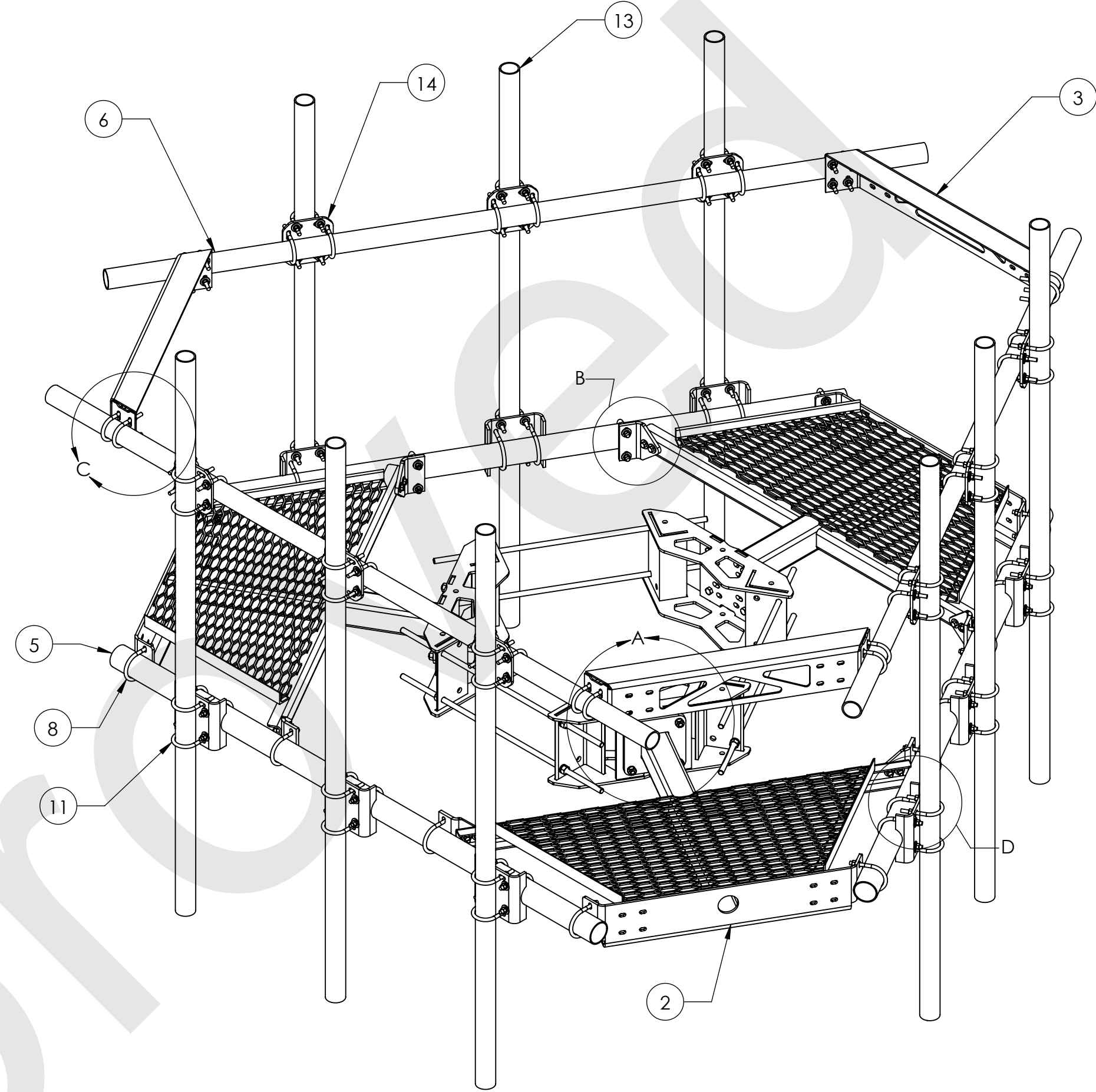
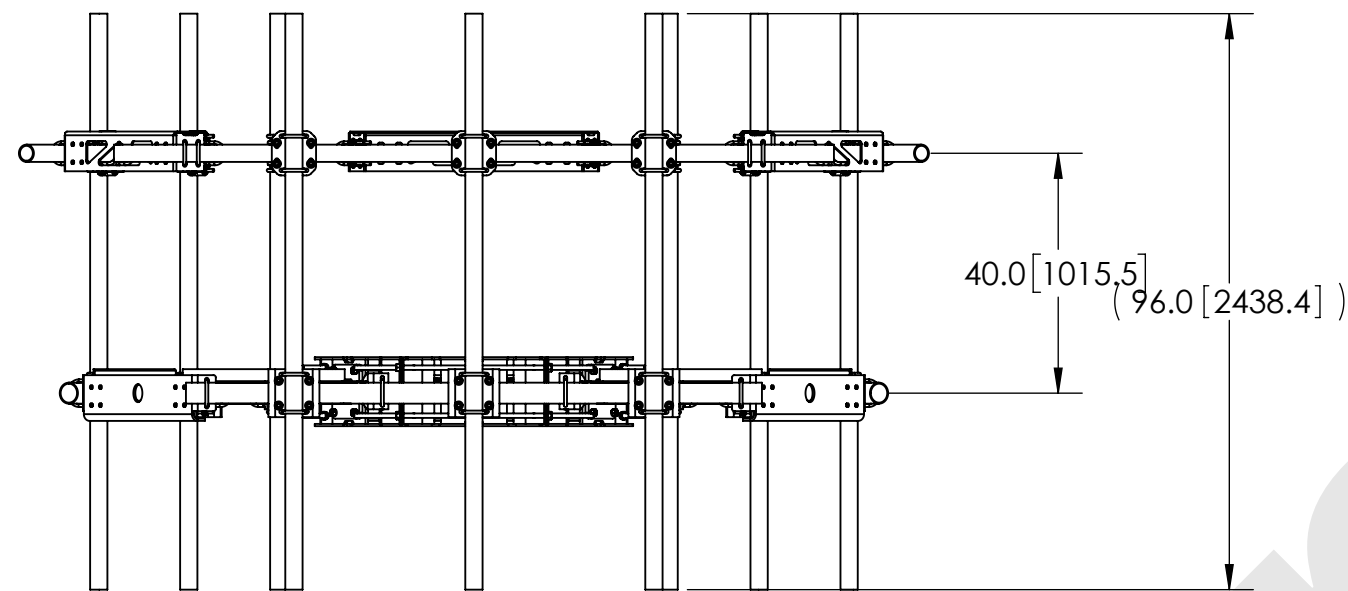
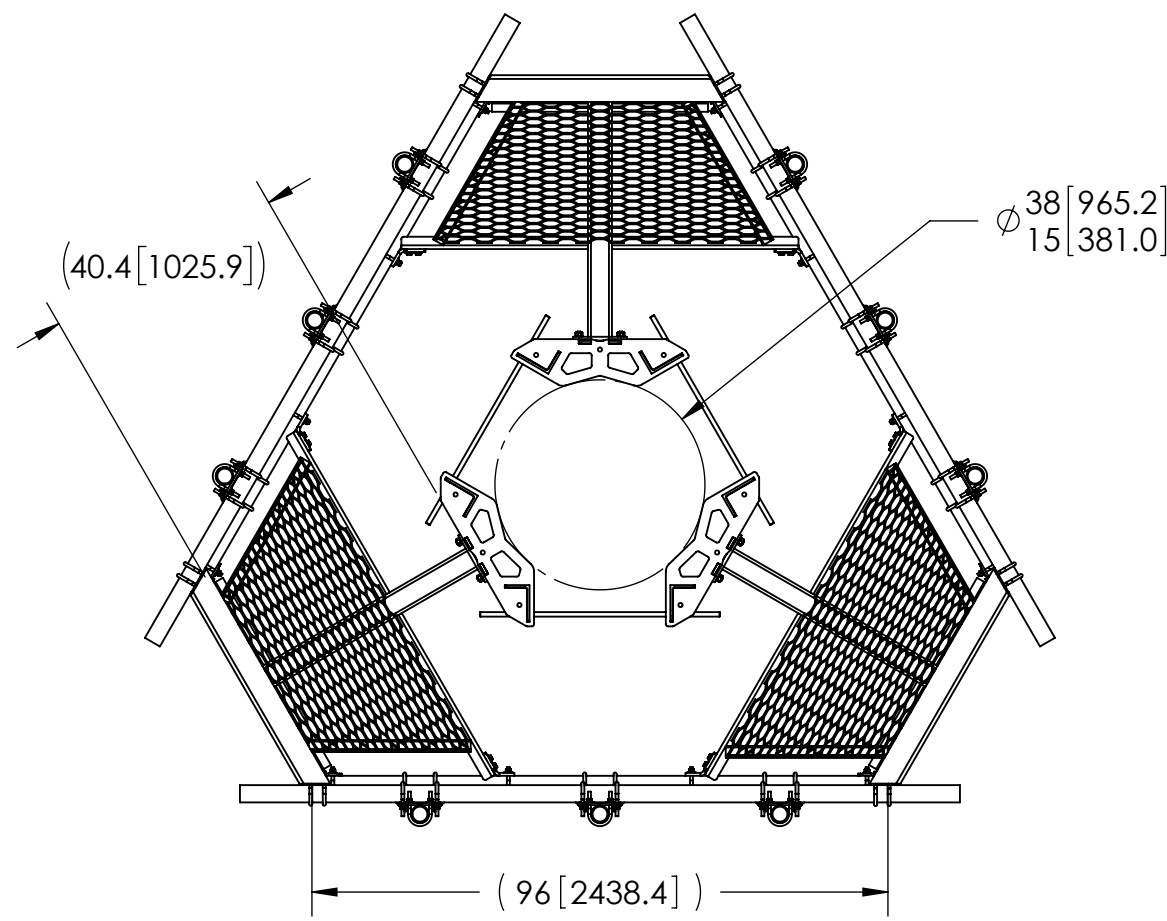
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NOTES:



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

A

B

C

D

A

B

C

D

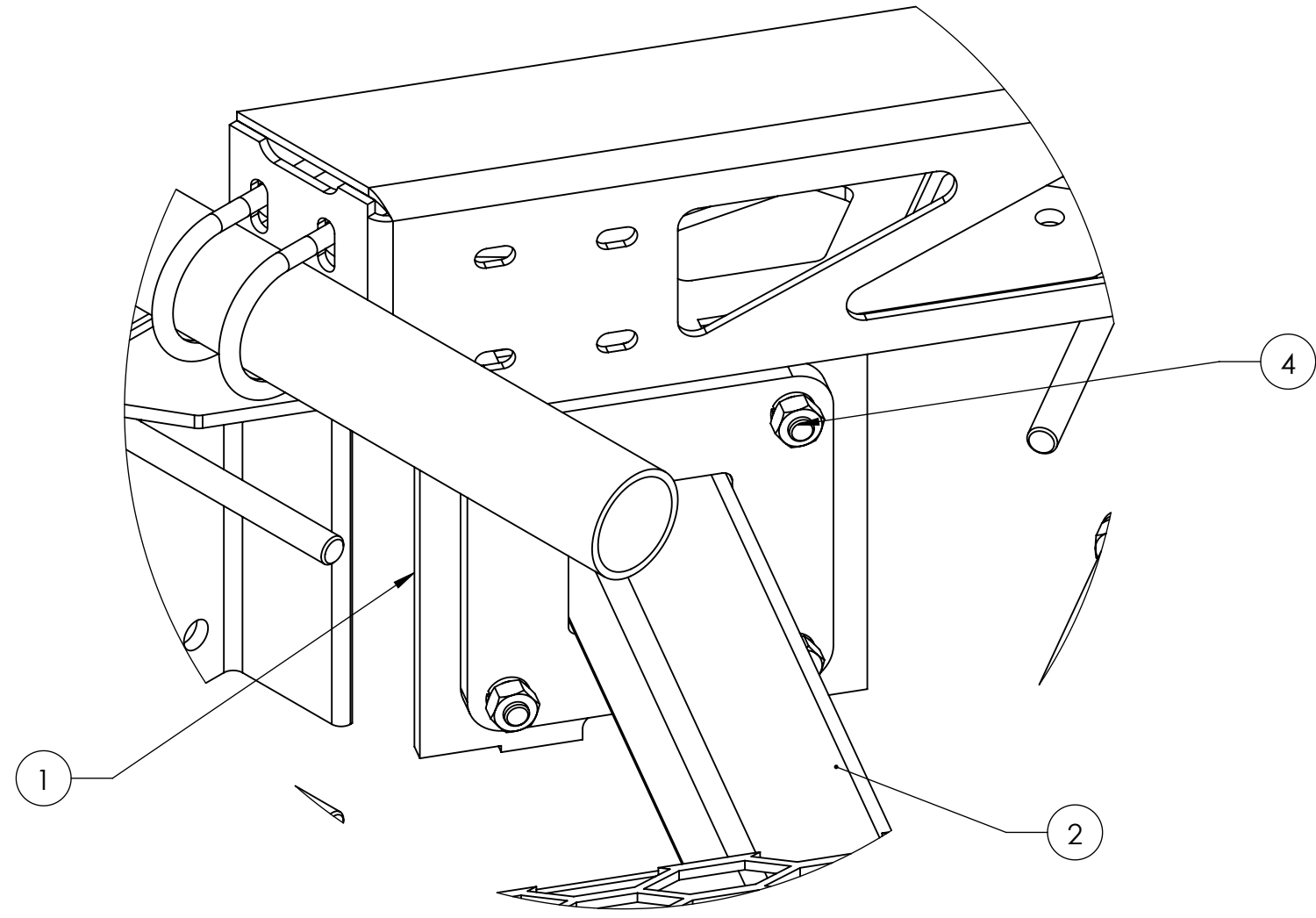
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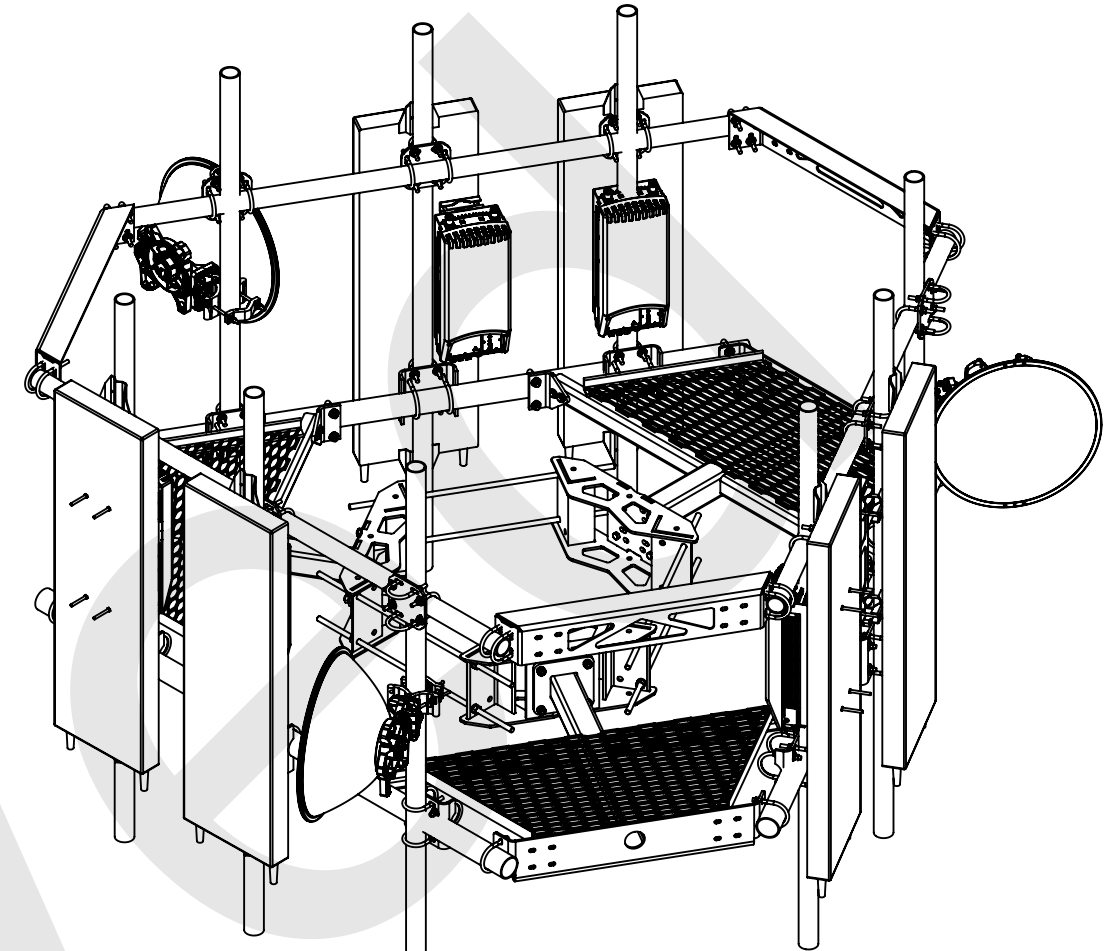
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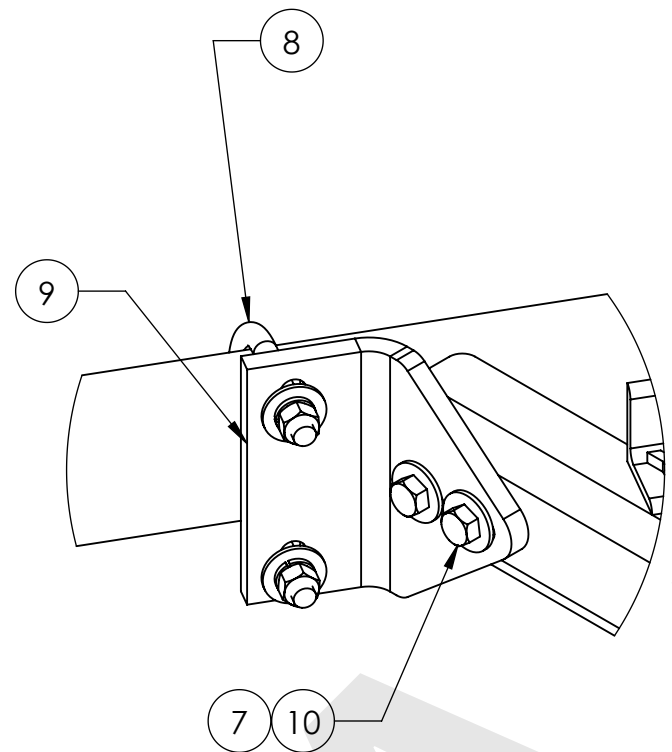
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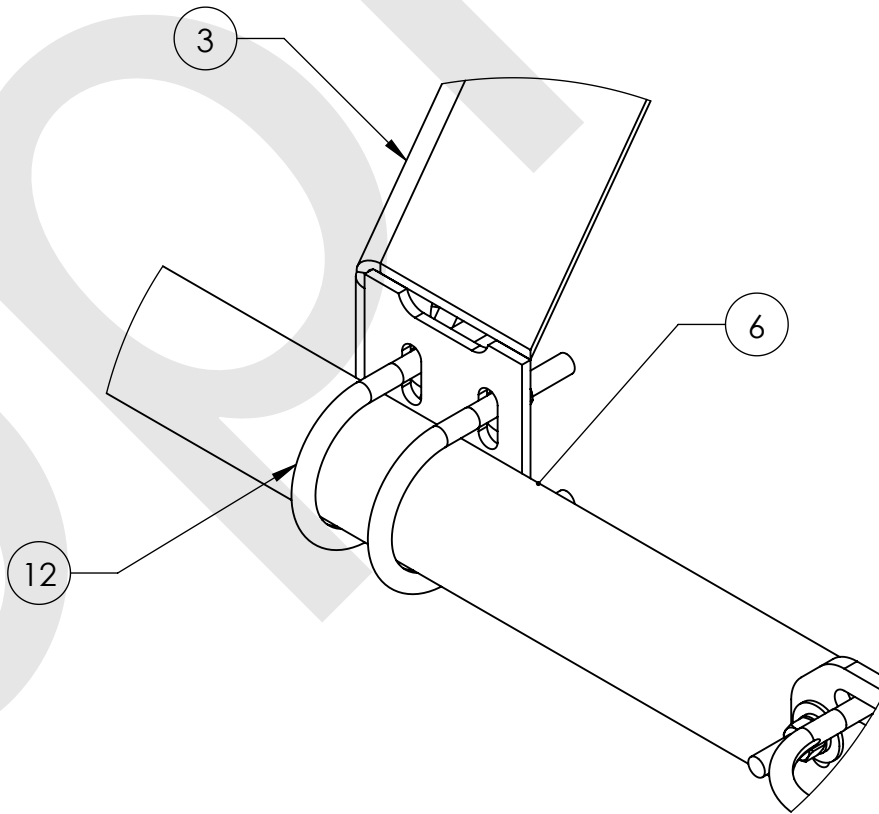
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SCALE 1 : 4



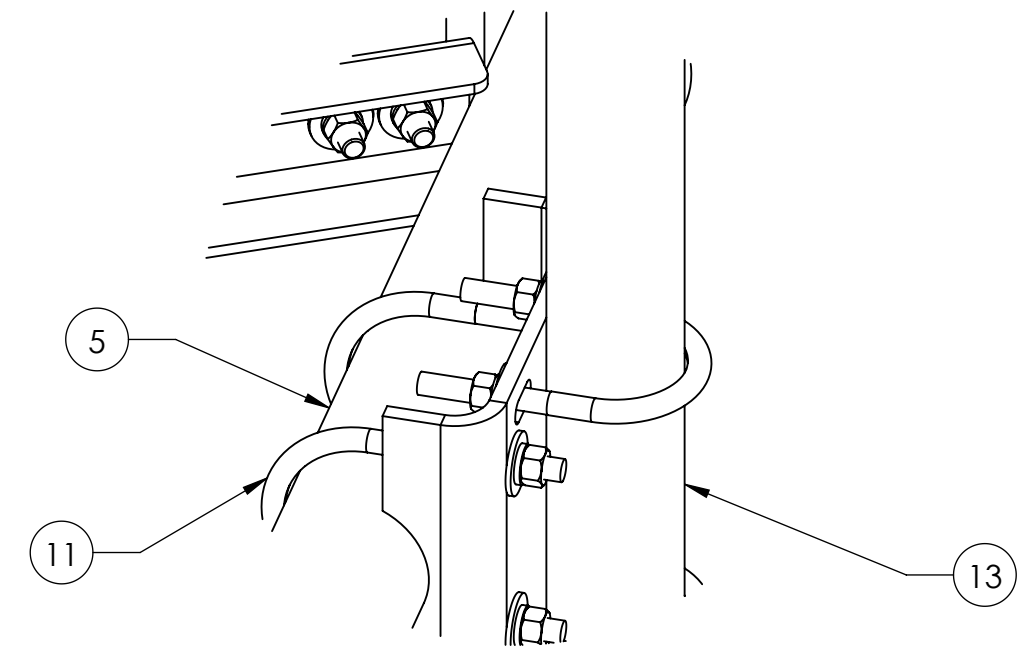
WITH ANTENNAS



DETAIL B
SCALE 1 : 4

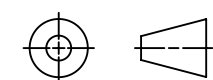


DETAIL C
SCALE 1 : 4



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		
		DRAWING		SHEET
		VERSION	STATUS	REVISION
		00	AD	A
				3 OF 3



D

C

B

A

D

C

B

A

4

3

2

1

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: 876378

**BOHVN00029A
15 Kluge Road
Prospect, Connecticut 06712**

May 27, 2022

EBI Project Number: 6222003249

Site Compliance Summary	
Compliance Status:	COMPLIANT
Site total MPE% of FCC general population allowable limit:	3.57%

May 27, 2022

Attn: Dish Wireless

Emissions Analysis for Site: 876378 - BOHVN00029A

EBI Consulting was directed to analyze the proposed Dish Wireless facility located at **15 Kluge Road in Prospect, 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 15 Kluge Road in Prospect, 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 170 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 #:	I	Antenna #:	I	Antenna #:	I
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):	170 feet	Height (AGL):	170 feet	Height (AGL):	170 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 %:	0.28%	Antenna BI MPE %:	0.28%	Antenna CI MPE %:	0.28%

Site Composite MPE %	
Carrier	MPE %
Dish Wireless (Max at Sector A):	0.28%
T-Mobile	2.98%
Sprint	0.31%
Site Total MPE % :	3.57%

Dish Wireless MPE % Per Sector	
Dish Wireless Sector A Total:	0.28%
Dish Wireless Sector B Total:	0.28%
Dish Wireless Sector C Total:	0.28%
Site Total MPE % :	3.57%

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	170.0	0.59	600 MHz n71	400	0.15%
Dish Wireless 1900 MHz n70	4	245.22	170.0	1.31	1900 MHz n70	1000	0.13%
						Total:	0.28%

• 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:	0.28%
Sector B:	0.28%
Sector C:	0.28%
Dish Wireless Maximum MPE % (Sector A):	0.28%
Site Total:	3.57%
Site Compliance Status:	COMPLIANT

The anticipated composite MPE value for this site assuming all carriers present is **3.57%** 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:
15 KLUGE ROAD, PROSPECT, CT 06712**

GLOBAL SIGNAL ACQUISITIONS II 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: 876378/N. BETHANY / DAVID KLUDGE
Customer Site ID: BOHVN00029A/CT-CCI-T-876378
Site Address: 15 Kluge Road, PROSPECT, CT 06712

Crown Castle

By:  _____ Date: 5/31/22
Richard Zajac
Site Acquisition Specialist

Exhibit H

Recipient Mailings



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

P

06/02/2022 Mailed from 01566

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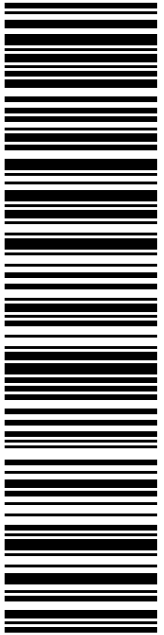
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US POSTAGE \$8.95
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R013

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Expected Delivery Date:	06/04/2022
Priority Mail® Postage:	\$8.95
Total:	\$8.95
From:	DEBORAH CHASE NORTHEAST SITE SOLUTIONS 420 MAIN ST STE 1 STURBRIDGE MA 01566-1359
To:	RICH ZAJAC CROWN CASTLE 4545 E RIVER RD STE 320 W HENRIETTA NY 14586-9024
	Ref#: DS-876378
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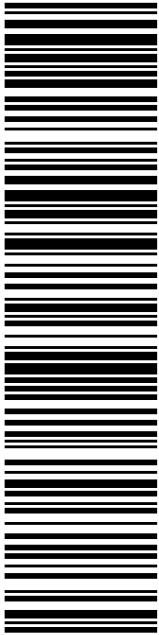


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ROBERT CHATFIELD
MAYOR- TOWN OF PROSPECT
36 CENTER ST
PROSPECT CT 06712-1609

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P

06/02/2022

Expected Delivery Date: 06/04/22
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R005

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

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Expected Delivery Date:	06/04/2022
Priority Mail® Postage:	\$8.95
Total:	\$8.95
From:	DEBORAH CHASE NORTHEAST SITE SOLUTIONS 420 MAIN ST STE 1 STURBRIDGE MA 01566-1359
To:	ROBERT CHATFIELD MAYOR- TOWN OF PROSPECT 36 CENTER ST PROSPECT CT 06712-1609
Ref#:	DS-876378

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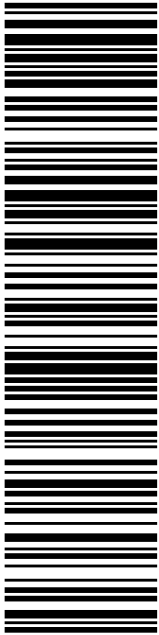


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MARY BARTON
LAND USE INSPECTOR
36 CENTER ST
PROSPECT CT 06712-1609

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06/02/2022

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

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Trans. #: 564809572	Priority Mail® Postage: \$8.95
Print Date: 06/02/2022	Total: \$8.95
Ship Date: 06/02/2022	
Expected Delivery Date: 06/04/2022	
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From: DEBORAH CHASE NORTHEAST SITE SOLUTIONS 420 MAIN ST STE 1 STURBRIDGE MA 01566-1359	Ref#: DS-876378
<hr/>	
To: MARY BARTON LAND USE INSPECTOR 36 CENTER ST PROSPECT CT 06712-1609	
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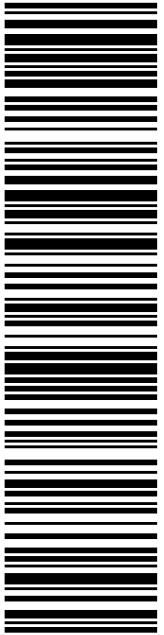


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15 KLUGE RD
PROSPECT CT 06712-1636

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Expected Delivery Date:	06/04/2022
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Total:	\$8.95
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To:	MARIE J KLUGE 15 KLUGE RD PROSPECT CT 06712-1636
	Ref#: DS-876378
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DSL



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FARMINGTON, CT 06032-9998
(800)275-8777

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Product	Qty	Unit Price	Price
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Prepaid Mail Prospect, CT 06712 Weight: 0 lb 9.90 oz Acceptance Date: Fri 06/03/2022 Tracking #: 9405 5036 9930 0264 1636 32	1		\$0.00
Prepaid Mail Prospect, CT 06712 Weight: 0 lb 9.80 oz Acceptance Date: Fri 06/03/2022 Tracking #: 9405 5036 9930 0264 1636 01	1		\$0.00
Prepaid Mail Prospect, CT 06712 Weight: 0 lb 9.90 oz Acceptance Date: Fri 06/03/2022 Tracking #: 9405 5036 9930 0264 1636 25	1		\$0.00

Grand Total: \$0.00

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