



Crown Castle
3 Corporate Park Drive, Suite 101
Clifton Park, NY 12065

August 24, 2020

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

**RE: Notice of Exempt Modification for T-Mobile:
806369 – T-Mobile Site ID: CT11161D
439-455 Homestead Avenue, Hartford, CT 06105
Latitude: 41° 47' 1.61" / Longitude: -72° 42' 13.66"**

Dear Ms. Bachman:

T-Mobile currently maintains nine (9) antennas at the 126-foot mount on the existing 140-foot Monopole Tower, located at 439-455 Homestead Avenue in Hartford, CT. The tower is owned by Crown Castle and the property is owned by Talar Properties LLC. T-Mobile now intends to add three (3) new 2500/2500 MHz antennas. The new antennas will be installed at the 126-ft level of the tower. T-Mobile is also proposing tower mount modifications, as shown on the enclosed mount analysis.

Planned Modifications:

Tower:

Remove:
(3) 1 5/8" Coax

Install New:
(3) 1 5/8" Hybrid Fiber Line
(3) RRH 4415 B25
(3) AIR6449 B41 Antenna 2500/2500 MHz

Existing to Remain:
(6) 1 5/8" Coax
(3) 1 3/8" Fiber
(3) AIR32_B66A_B2A Antenna 1900/2100 MHz
(3) RFS-APXVAARR24_43-U-NA20 Antenna 600/700 MHz
(3) AIR21 KRC118023-1_B2A_B4P Antenna 1900/2100 MHz
(3) Radio 4449 B71/B12
(3) TMA

Ground:

Replacement and upgrade to existing ground cabinet.
Install generator on 10'x5' concrete pad within existing lease area.
Remove 8' fence portion to replace with 8' double swing access gate. No change to compound size.

The facility was approved by the Connecticut Siting Council on April 9, 1990 via Docket No. 126. The approval was given with conditions which T-Mobile's proposed exempt modification adhere to.

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies §16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to Luke Bronin, Mayor for the City of Hartford, Carlos Cruz, Zoning Enforcement Officer, Crown Castle as the tower owner, and Talar Properties LLC, the property owner.

1. The proposed modifications will not result in an increase in the height of the existing tower.
2. The proposed modifications will not require the extension of the site boundary.
3. The proposed modification will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
4. The operation of the replacement antennas will not increase radio frequency emissions at the facility to a level at or above the Federal Communication Commission safety standard.
5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
6. The existing structure and its foundation can support the proposed loading.

For the foregoing reasons, T-Mobile respectfully submits that the proposed modifications to the above-reference telecommunications facility constitutes an exempt modification under R.C.S.A. § 16-50j-72(b)(2). Please send approval/rejection letter to Attn: Anne Marie Zsamba.

Sincerely,

Anne Marie Zsamba
Site Acquisition Specialist
3 Corporate Park Drive, Suite 101
Clifton Park, NY 12065
(201) 236-9224
AnneMarie.Zsamba@crowncastle.com

Attachments

cc:

Luke Bronin, Mayor (*via email only to luke.bronin@hartford.gov*)
City of Hartford
550 Main Street, Room 200
Hartford, CT 06103

Aimee Chambers, Director of Planning (*via email only to aimee.chambers@hartford.gov*)
City of Hartford
250 Constitution Plaza, 4th Floor

Melanie A. Bachman

Page 3

Hartford, CT 06103

Talar Properties LLC
705 N Mountain Road
Newington, CT 06111

Crown Castle, Tower Owner

ORIGIN ID: SCHA (518) 350-3639
ANNE MARIE ZSAMBA
CROWN CASTLE
21 HEATHER DRIVE

SHIP DATE: 24AUG20
ACT WGT: 1.00 LB
CAD: 104924194/NET4280

GANSEVOORT, NY 12831
UNITED STATES US

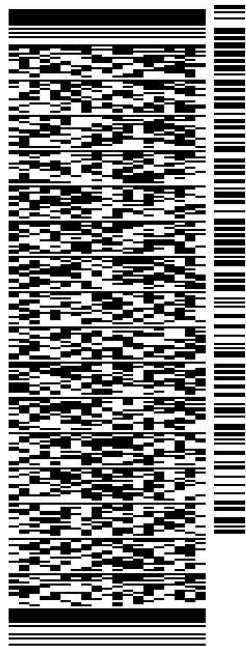
BILL SENDER

TO TALAR PROPERTIES LLC

705 N MOUNTAIN ROAD

NEWINGTON CT 06111

(201) 236-9224 REF: 1734 7890
INV/ PO: DEPT:



J202020071401uv

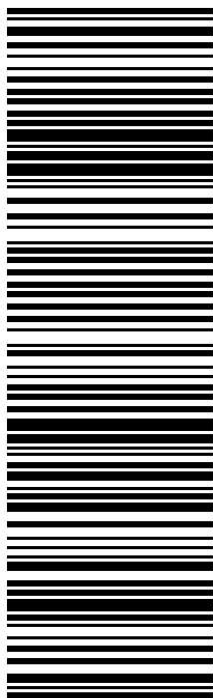
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TRK# 7713 4211 4690
0201

TUE - 25 AUG 10:30A
PRIORITY OVERNIGHT

EB BDLA

06111
CT-US BDL



After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number. Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

From: [Zsamba, Anne Marie](#)
To: luke.bronin@hartford.gov
Subject: Notice of Exempt Modification - Homestead Avenue - T-Mobile
Date: Monday, August 24, 2020 3:13:00 PM
Attachments: [EM-T-MOBILE-HOMESTEAD AVENUE HARTFORD-806369-CT11161D-notice.pdf](#)

Dear Mayor Bronin:

Attached please find T-Mobile's exempt modification application that is being submitted to the Connecticut Siting Council, today August 24, 2020.

In light of the present circumstances with Covid-19, The Council has advised that electronic notification of this filing is acceptable. If you could kindly confirm receipt. Thank you.

Best,
Anne Marie Zsamba

ANNE MARIE ZSAMBA
Site Acquisition Specialist
T: (201) 236-9224
M: (518) 350-3639
F: (724) 416-6112

CROWN CASTLE
3 Corporate Park Drive, Suite 101
Clifton Park, NY 12065
CrownCastle.com

From: [Zsamba, Anne Marie](#)
To: aimee.chambers@hartford.gov
Subject: Notice of Exempt Modification - Homestead Avenue - T-Mobile
Date: Monday, August 24, 2020 3:13:00 PM
Attachments: [EM-T-MOBILE-HOMESTEAD AVENUE HARTFORD-806369-CT11161D-notice.pdf](#)

Dear Director Chambers:

Attached please find T-Mobile's exempt modification application that is being submitted to the Connecticut Siting Council, today August 24, 2020.

In light of the present circumstances with Covid-19, The Council has advised that electronic notification of this filing is acceptable. If you could kindly confirm receipt. Thank you.

Best,
Anne Marie Zsamba

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T: (201) 236-9224
M: (518) 350-3639
F: (724) 416-6112

CROWN CASTLE
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Clifton Park, NY 12065
CrownCastle.com

Exhibit A

Original Facility Approval

DOCKET NO. 126 - AN APPLICATION OF : Connecticut Siting
METRO MOBILE CTS OF HARTFORD, INC., : Council
FOR A CERTIFICATE OF ENVIRONMENTAL :
COMPATIBILITY AND PUBLIC NEED FOR : April 9, 1990
THE CONSTRUCTION, OPERATION, AND :
MAINTENANCE OF A CELLULAR TELEPHONE :
TOWER AND ASSOCIATED EQUIPMENT IN :
THE CITY OF HARTFORD, CONNECTICUT. :

D E C I S I O N A N D O R D E R

Pursuant to the foregoing Findings of Fact and Opinion, the Connecticut Siting Council finds that the effects associated with the construction, operation, and maintenance of a cellular telephone facility at the proposed Hartford site, including effects on the natural environment; ecological integrity and balance; forests and parks; air and water purity; and fish and wildlife are not significant either alone or cumulatively with other effects, are not in conflict with the policies of the State concerning such effects, and are not sufficient reason to deny the application, and therefore directs that a Certificate of Environmental Compatibility and Public Need, as provided by Section 16-50k of the General Statutes of Connecticut (CGS), be issued to Metro Mobile CTS of Hartford, Inc., for the construction, operation, and maintenance of a cellular telecommunications tower, associated equipment, and building at the proposed site in Hartford, Connecticut.

The facility shall be constructed, operated, and maintained substantially as specified in the Council's record in this matter, and subject to the following conditions:

1. The monopole tower including antennas and associated equipment shall not exceed a height of 153 feet above ground level, 215 feet AMSL.
2. The facility shall be constructed in accordance with the State of Connecticut Basic Building Code.
3. The tower shall be designed and constructed to withstand 125 mph winds with two-inch radial ice accumulation.
4. The Certificate Holder shall prepare a Development and Management (D&M) plan for this site in compliance with Sections 16-50j-75 through 16-50j-77 of the Regulations of State Agencies. The D&M plan shall include detailed plans of the site preparation with a soil boring report; plans, design details, and specifications for the tower foundation; and a site plan with placement of the tower as far removed from abutting properties and structures as possible.

5. The Certificate Holder shall prepare the D&M plan in consultation with the City of Hartford, which may provide its comments to the Council within 20 days of submission to the City.
6. The Certificate Holder shall comply with existing and any future radio frequency (RF) standard promulgated by State or federal regulatory agencies. Upon the establishment of any new governmental RF standards, the facility granted in this Decision and Order shall be brought into compliance with such standards.
7. The Certificate Holder shall provide the Council a recalculated report of power density if and when additional channels over the proposed 90 channels, higher wattage over the proposed 100 watts per channel, or if other circumstances in operation cause a change in power density above the levels originally calculated in the application.
8. The Certificate Holder shall permit public or private entities to share space on the tower for fair consideration, or shall provide any requesting entity with specific legal, technical, environmental, or economic reasons precluding such tower sharing.
9. If this facility does not initially provide, or permanently ceases to provide, cellular service following the completion of construction, this Decision and Order shall be void, and the tower and all associated equipment in this application shall be dismantled and removed or reapplication of any new use shall be made to the Council before any such new use is made.
10. Unless otherwise approved by the Council, this Decision and Order shall be void if construction authorized herein is not completed within three years of the effective date of this Decision and Order.

Pursuant to Section 16-50p of the CGS, we hereby direct that a copy of the Findings of Fact, Opinion, and Decision and Order be served on each person listed below. A notice of issuance shall be published in the Hartford Courant.

By this Decision and Order, the Council disposes of the legal rights, duties, and privileges of each party named or admitted to the proceeding in accordance with Section 16-50j-17 of the Regulations of State Agencies.

The parties or intervenors to this proceeding are:

(Applicant)

Metro Mobile CTS of
Hartford, Inc.
100 Corporate Drive
Windsor, CT 06095
Attn: Gary N. Schulman
Vice President and
General Manager

(Its Representative)

Robinson & Cole
One Commercial Plaza
Hartford, CT 06103-3597
Attn: Earl W. Phillips
Jr., Esq.

(Intervenor)

SNET Cellular, Inc.
227 Church Street
New Haven, CT 06506

(Its Representative)

Peter J. Tyrrell
Senior Attorney
SNET Cellular, Inc.
227 Church Street
Room 1021
New Haven, CT 06506

JAW

4248E

CERTIFICATION

The undersigned members of the Connecticut Siting Council hereby certify that they have heard this case in Docket No. 126 - An application of Metro Mobile CTS of Hartford, Inc., for a Certificate of Environmental Compatibility and Public Need for the construction, maintenance, and operation of a cellular telephone tower and associated equipment in the City of Hartford, Connecticut, or read the record thereof, and that we voted as follows:

Dated at New Britain, Connecticut the 9th day of April, 1990.

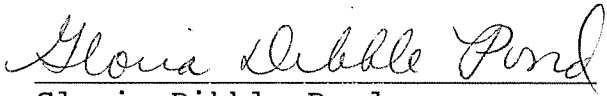
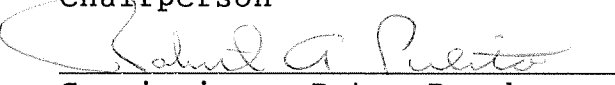

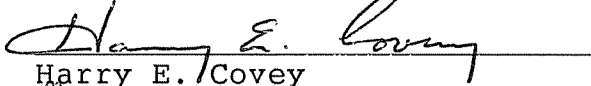
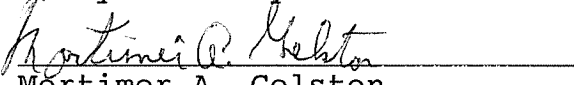

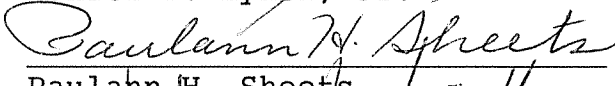
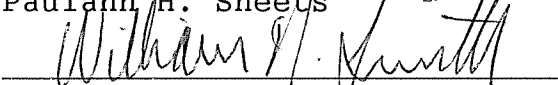
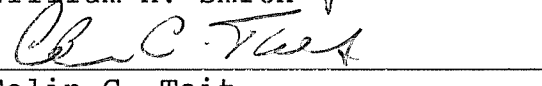
<u>Council Members</u>	<u>Vote Cast</u>
 Gloria Dibble Pond Chairperson	Yes
 Commissioner Peter Boucher Designee: Robert A. Pulito	Yes
 Commissioner Leslie Carothers Designee: Brian Emerick	Yes
 Harry E. Covey	Yes
 Mortimer A. Gelston	Yes
 Daniel P. Lynch, Jr.	Yes
 Paulann H. Sheets	Abstain
 William H. Smith	Yes
 Colin C. Tait	Yes

Exhibit B

Property Card

Unofficial Property Record Card - Hartford, CT

General Property Data

Parcel ID 152-181-002	Account Number
Prior Parcel ID	Property Location 441-455 HOMESTEAD AVE
Property Owner TALAR PROPERTIES LLC	Property Use VAC LAND IND
Mailing Address 705 N MOUNTAIN RD	Most Recent Sale Date 3/7/2001
City NEWINGTON	Legal Reference 04350-0044
Mailing State CT Zip 06111-1412	Grantor HUDSON ASSOCIATES
ParcelZoning CX-1	Sale Price 0
	Land Area 79,715.000 acres

Current Property Assessment

Card 1 Value	Building Value 0	Xtra Features Value 0	Land Value 224,630	Total Value 224,630
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Building Description

Building Style N/A	Foundation Type N/A	Flooring Type N/A
# of Living Units 0	Frame Type N/A	Basement Floor N/A
Year Built N/A	Roof Structure N/A	Heating Type N/A
Building Grade N/A	Roof Cover N/A	Heating Fuel N/A
Building Condition N/A	Siding N/A	Air Conditioning 0%
Finished Area (SF) 0	Interior Walls N/A	# of Bsmt Garages 0
Number Rooms 0	# of Bedrooms 0	# of Full Baths 0
# of 3/4 Baths 0	# of 1/2 Baths 0	# of Other Fixtures 0

Legal Description

Narrative Description of Property

This property contains 79,715.000 acres of land mainly classified as VAC LAND IND with a(n) N/A style building, built about N/A , having N/A exterior and N/A roof cover, with 0 commercial unit(s) and 0 residential unit(s), 0 room(s), 0 bedroom(s), 0 bath(s), 0 half bath(s).

Property Images



Disclaimer: This information is believed to be correct but is subject to change and is not warranted.

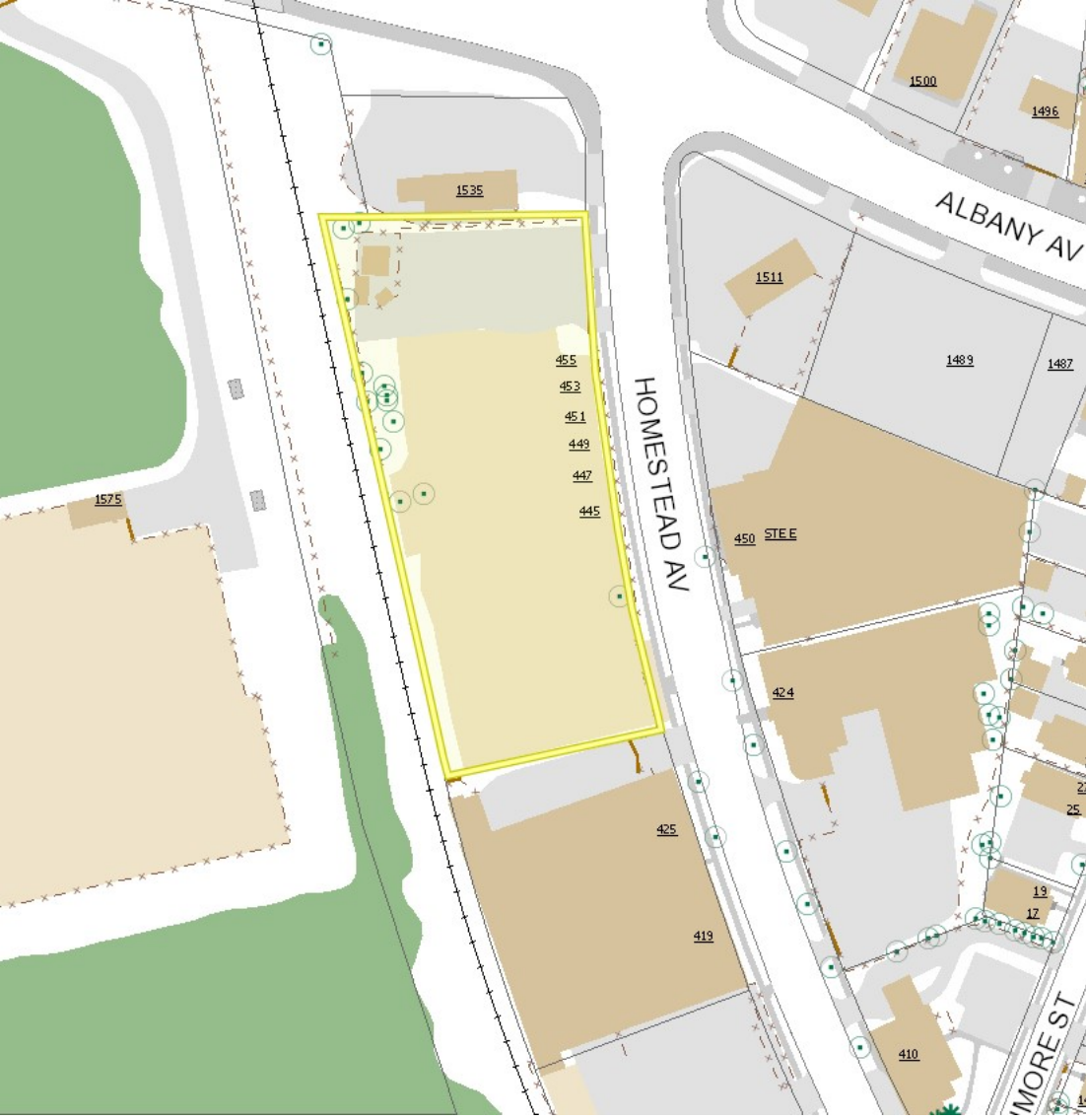


Exhibit C

Construction Drawings

T-Mobile

T-MOBILE SITE NUMBER: CT11161D
T-MOBILE SITE NAME: CT161/JN OF ALBANY_1
SITE TYPE: MONOPOLE
TOWER HEIGHT: 140'-0"

BUSINESS UNIT #: 806369
SITE ADDRESS: 439 HOMESTEAD AVE
 HARTFORD, CT 06105
COUNTY: HARTFORD
JURISDICTION: CITY OF HARTFORD

T-MOBILE ANCHOR SITE CONFIGURATION: 67D5A992DB

T-Mobile
 4 SYLVAN WAY
 PARSIPPANY, NJ 07054

CROWN CASTLE
 3530 TORINGDON WAY, SUITE 300
 CHARLOTTE, NC 28277

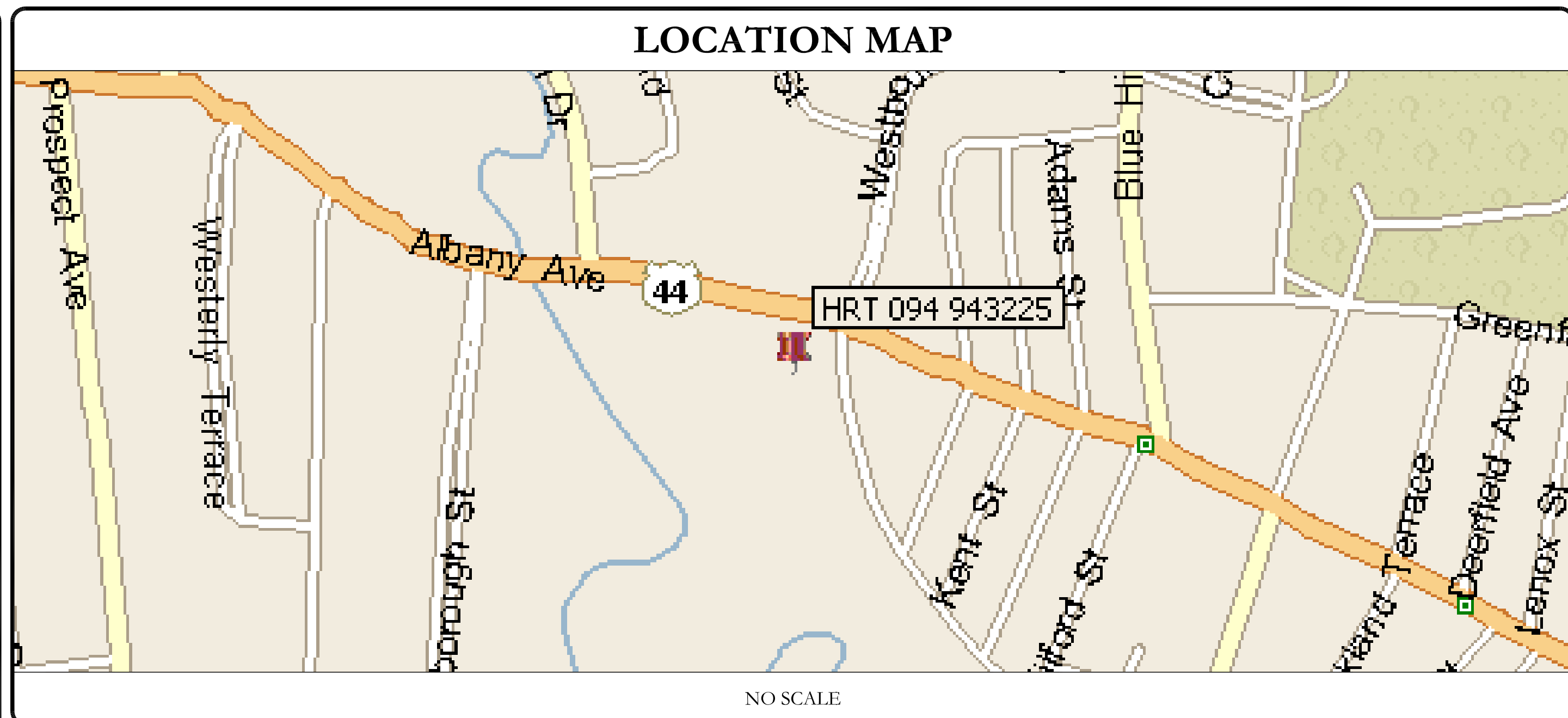
B+T GRP
 1717 S. BOULDER
 SUITE 300
 TULSA, OK 74119
 PH: (918) 587-4630
 www.btgrp.com

T-MOBILE
 SITE NUMBER: CT11161D
 BU #: 806369
 HRT 094 943225
 439 HOMESTEAD AVE
 HARTFORD, CT 06105
 EXISTING
 140'-0" MONOPOLE

SITE INFORMATION	
CROWN CASTLE USA INC. SITE NAME:	HRT 094 943225
SITE ADDRESS:	439 HOMESTEAD AVE HARTFORD, CT 06105
COUNTY:	HARTFORD
MAP/PARCEL #:	152-181-002
AREA OF CONSTRUCTION:	EXISTING
LATITUDE:	41.783719°
LONGITUDE:	-72.703743°
LAT/LONG TYPE:	NAD83
GROUND ELEVATION:	63 FT
CURRENT ZONING:	CX-1
JURISDICTION:	CITY OF HARTFORD
OCCUPANCY CLASSIFICATION:	U
TYPE OF CONSTRUCTION:	IIB
A.D.A. COMPLIANCE:	FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION
PROPERTY OWNER:	TALAR PROPERTIES LLC 705 N. MOUNTAIN RD NEWINGTON, CT 06111-1412
TOWER OWNER:	CROWN CASTLE 2000 CORPORATE DRIVE CANONSBURG, PA 15317
CARRIER/APPLICANT:	T-MOBILE 35 GRIFFIN ROAD BLOOMFIELD, CT 06002
ELECTRIC PROVIDER:	NOT PROVIDED
TELCO PROVIDER:	NOT PROVIDED

DRAWING INDEX	
SHEET #	SHEET DESCRIPTION
T-1	TITLE SHEET
T-2	GENERAL NOTES
C-1.1	OVERALL SITE PLAN
C-1.2	SITE PLAN & ENLARGED SITE PLAN
C-2	FINAL ELEVATION & ANTENNA PLANS
C-3	ANTENNA & CABLE SCHEDULE
C-4	PLUMBING DIAGRAM
C-5	EQUIPMENT SPECS
C-6	GENERATOR DETAILS
E-1	AC PANEL SCHEDULES & ONE LINE DIAGRAM
E-2	DC GENERATOR ON LINE DIAGRAM
G-1	ANTENNA GROUNDING DIAGRAM
G-2	GROUNDING DETAILS
G-3	GROUNDING DETAILS
ATTACHED	MOUNT MOD SPECS

ALL DRAWINGS CONTAINED HEREIN ARE FORMATTED FOR 24X36. CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.



PROJECT TEAM	
A&E FIRM:	CROWN CASTLE USA INC. 2000 CORPORATE DRIVE CANONSBURG, PA 15317 CROWN.AE.APPROVAL@CROWNCastle.COM
CROWN CASTLE USA INC. DISTRICT CONTACTS:	1500 CORPORATE DRIVE CANONSBURG, PA 15317
	JOSEPH CLARK - PROJECT MANAGER JOSEPH.CLARK@CROWNCastle.COM

PROJECT DESCRIPTION	
THE PURPOSE OF THIS PROJECT IS TO ENHANCE BROADBAND CONNECTIVITY AND CAPACITY TO THE EXISTING ELIGIBLE WIRELESS FACILITY.	
TOWER SCOPE OF WORK:	
<ul style="list-style-type: none"> REMOVE (3) 1-5/8" COAX CABLES RELOCATE (9) ANTENNAS RELOCATE (3) RRUs RELOCATE (3) TMAs INSTALL (3) ANTENNAS INSTALL (3) RRUs INSTALL (3) 6x12 HCS HYBRID CABLES MODIFY MOUNT PER MA BY POD GROUP DATED 6/19/20 	
GROUND SCOPE OF WORK:	
<ul style="list-style-type: none"> REMOVE (1) NORTEL CABINET INSTALL (1) ENCLOSURE 6160 INSTALL (1) B160 BATTERY CABINET INSTALL (1) iXRc ROUTER INSTALL (3) BB6630 INSTALL (1) BB6648 INSTALL (1) GENERATOR 	
NOTE: PRIOR TO ACCESSING/ENTERING THE SITE YOU MUST CONTACT THE CROWN NOC AT (800) 788-7011 & CROWN CONSTRUCTION MANAGER	

APPLICABLE CODES/REFERENCE DOCUMENTS	
ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES:	
CODE TYPE	CODE
BUILDING	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
REFERENCE DOCUMENTS:	
STRUCTURAL ANALYSIS:	PAUL J. FORD & COMPANY
DATED:	6/24/20
MOUNT ANALYSIS:	POWER OF DESIGN GROUP
DATED:	6/19/20
RFDS REVISION:	5
DATED:	5/11/2020
ORDER ID:	523998
REVISION:	1

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

APPROVALS		
APPROVAL	SIGNATURE	DATE
PROPERTY OWNER OR REP.	_____	_____
LAND USE PLANNER	_____	_____
T-MOBILE	_____	_____
OPERATIONS	_____	_____
RF	_____	_____
NETWORK	_____	_____
BACKHAUL	_____	_____
CONSTRUCTION MANAGER	_____	_____

THE PARTIES ABOVE HEREBY APPROVE AND ACCEPT THESE DOCUMENTS AND AUTHORIZE THE CONTRACTOR TO PROCEED WITH THE CONSTRUCTION DESCRIBED HEREIN. ALL CONSTRUCTION DOCUMENTS ARE SUBJECT TO REVIEW BY THE LOCAL BUILDING DEPARTMENT AND ANY CHANGES AND MODIFICATIONS THEY MAY IMPOSE.

ISSUED FOR:				
REV	DATE	DRWN	DESCRIPTION	DES./QA
A	07/20/20	DLS	PRELIMINARY	RMC
0	8/11/20	DLS	CONSTRUCTION	RMC
1	8/20/20	MLC	CONSTRUCTION	MTJ

B&T ENGINEERING, INC.
 PEC.0001564
 Expires 2/10/21

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

SHEET NUMBER:	REVISION:
T-1	1

89233_HTR_094_943225_Prelim.dwg - Sheet1-1 - User: rconson - Aug 20, 2020 - 11:09am

CROWN CASTLE USA INC. SITE ACTIVITY REQUIREMENTS:

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

GREENFIELD GROUNDING NOTES:

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

GENERAL NOTES:

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

CONCRETE, FOUNDATIONS, AND REINFORCING STEEL:

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

ELECTRICAL INSTALLATION NOTES:

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

CONDUCTOR COLOR CODE

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

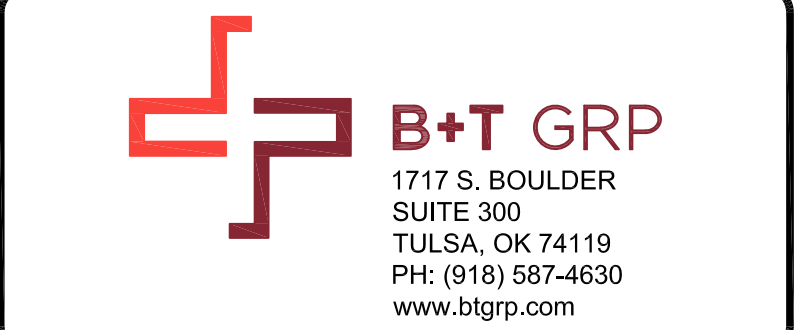
* SEE NEC 210.5(C)(1) AND (2)
** POLARITY MARKED AT TERMINATION

ABBREVIATIONS:

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

APWA UNIFORM COLOR CODE:

- WHITE PROPOSED EXCAVATION
- PINK TEMPORARY SURVEY MARKINGS
- RED ELECTRIC POWER LINES, CABLES, CONDUIT, AND LIGHTING CABLES
- YELLOW GAS, OIL, STEAM, PETROLEUM, OR GASEOUS MATERIALS
- ORANGE COMMUNICATION, ALARM OR SIGNAL LINES, CABLES, OR CONDUIT AND TRAFFIC LOOPS
- BLUE POTABLE WATER
- PURPLE RECLAIMED WATER, IRRIGATION, AND SLURRY LINES
- GREEN SEWERS AND DRAIN LINES



T-MOBILE
SITE NUMBER: CT11161D
BU #: 806369
HRT 094 943225

439 HOMESTEAD AVE
HARTFORD, CT 06105
EXISTING
140'-0" MONOPOLE

ISSUED FOR:

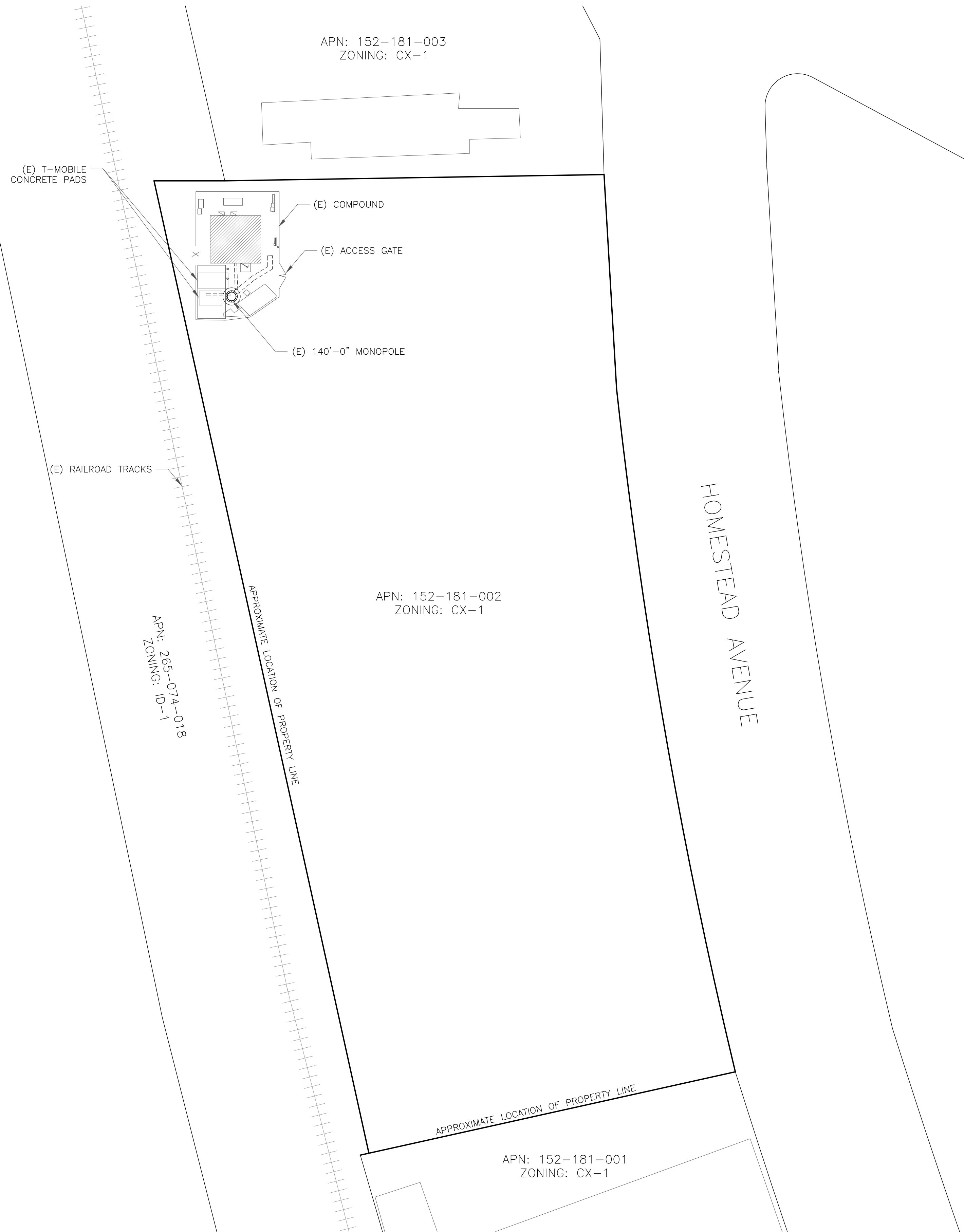
REV	DATE	DRWN	DESCRIPTION	DES./QA
A	07/20/20	DLS	PRELIMINARY	RMC
0	8/11/20	DLS	CONSTRUCTION	RMC
1	8/20/20	MLC	CONSTRUCTION	MTJ



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SHEET NUMBER: T-2 REVISION: 1

SITE PLAN DISCLAIMER:
 PROPERTY LINES AND STRUCTURES HAVE BEEN DIGITIZED FROM PREVIOUS PLAN SETS OR FROM ASSESSORS MAPS. CROWN CASTLE USA INC. HAS NOT COMPLETED A SITE SURVEY AND THEREFORE MAKES NO CLAIMS AS TO THE ACCURACY OF INFORMATION DEPICTED ON THIS SHEET



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 PARSIPPANY, NJ 07054

CROWN CASTLE
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 CHARLOTTE, NC 28277

B+T GRP
 1717 S. BOULDER
 SUITE 300
 TULSA, OK 74119
 PH: (918) 587-4630
 www.btgrp.com

T-MOBILE
 SITE NUMBER: **CT11161D**

BU #: 806369
HRT 094 943225

439 HOMESTEAD AVE
 HARTFORD, CT 06105

EXISTING
 140'-0" MONOPOLE

ISSUED FOR:

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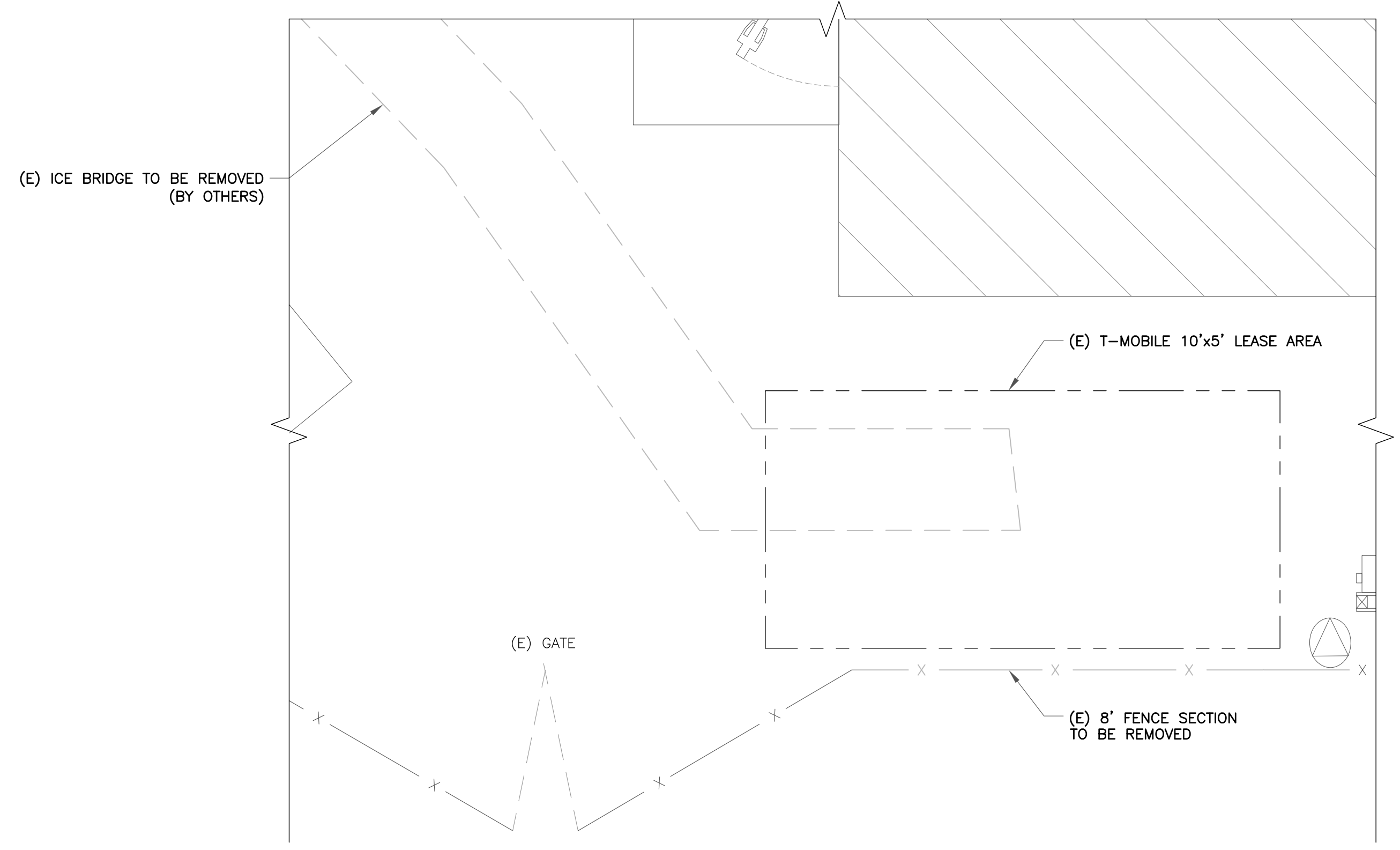
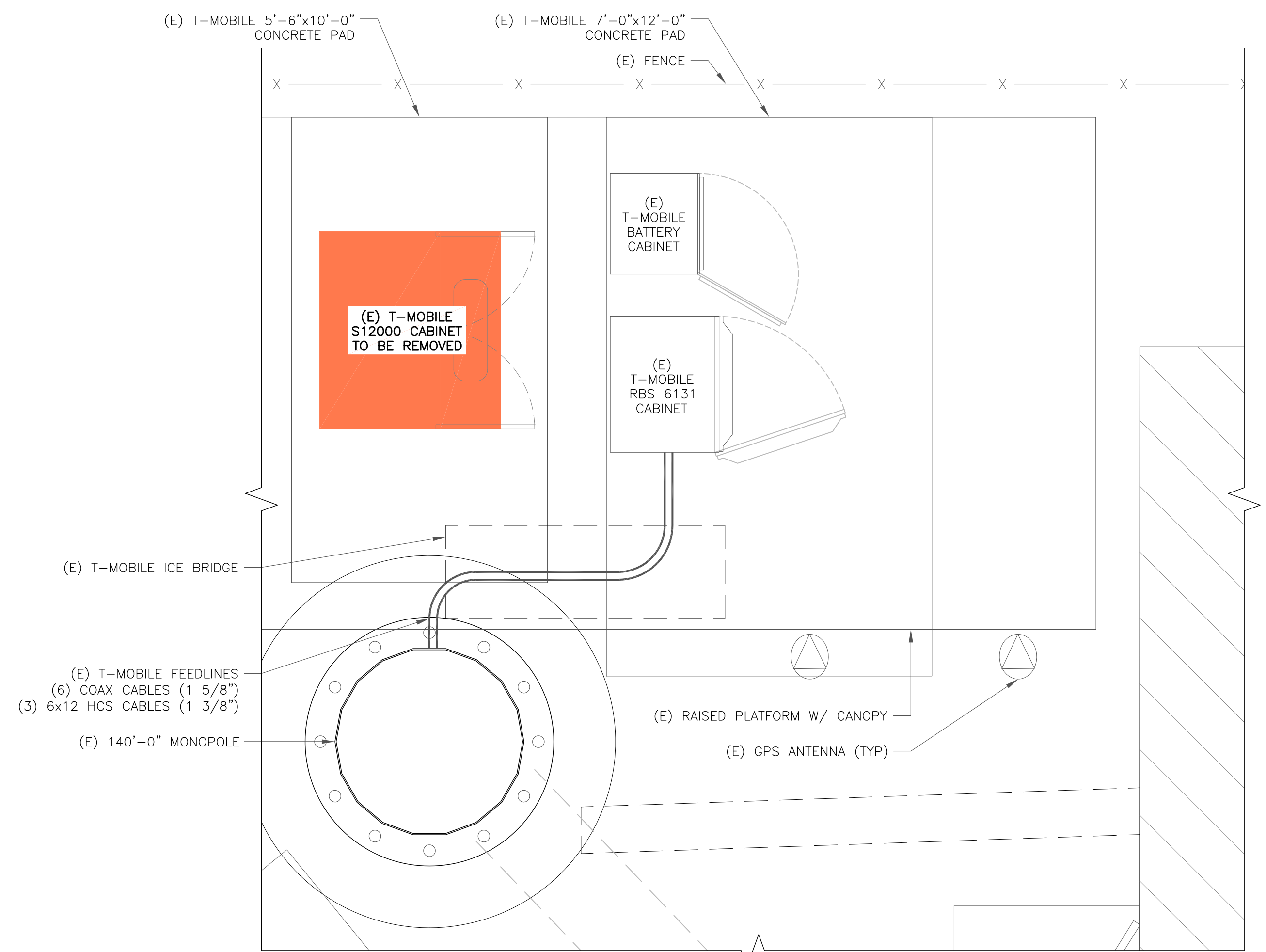
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SHEET NUMBER:
C-1.1

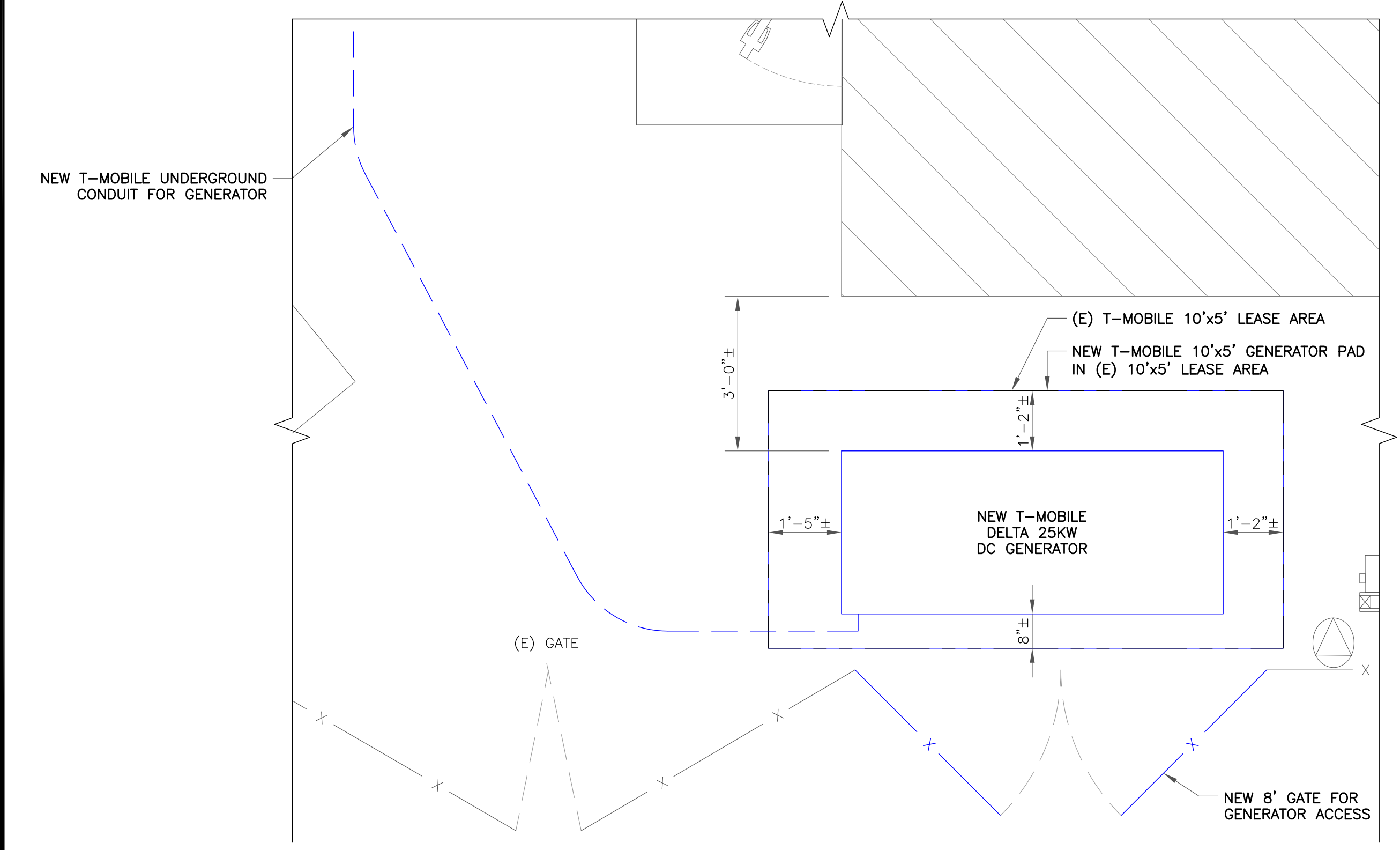
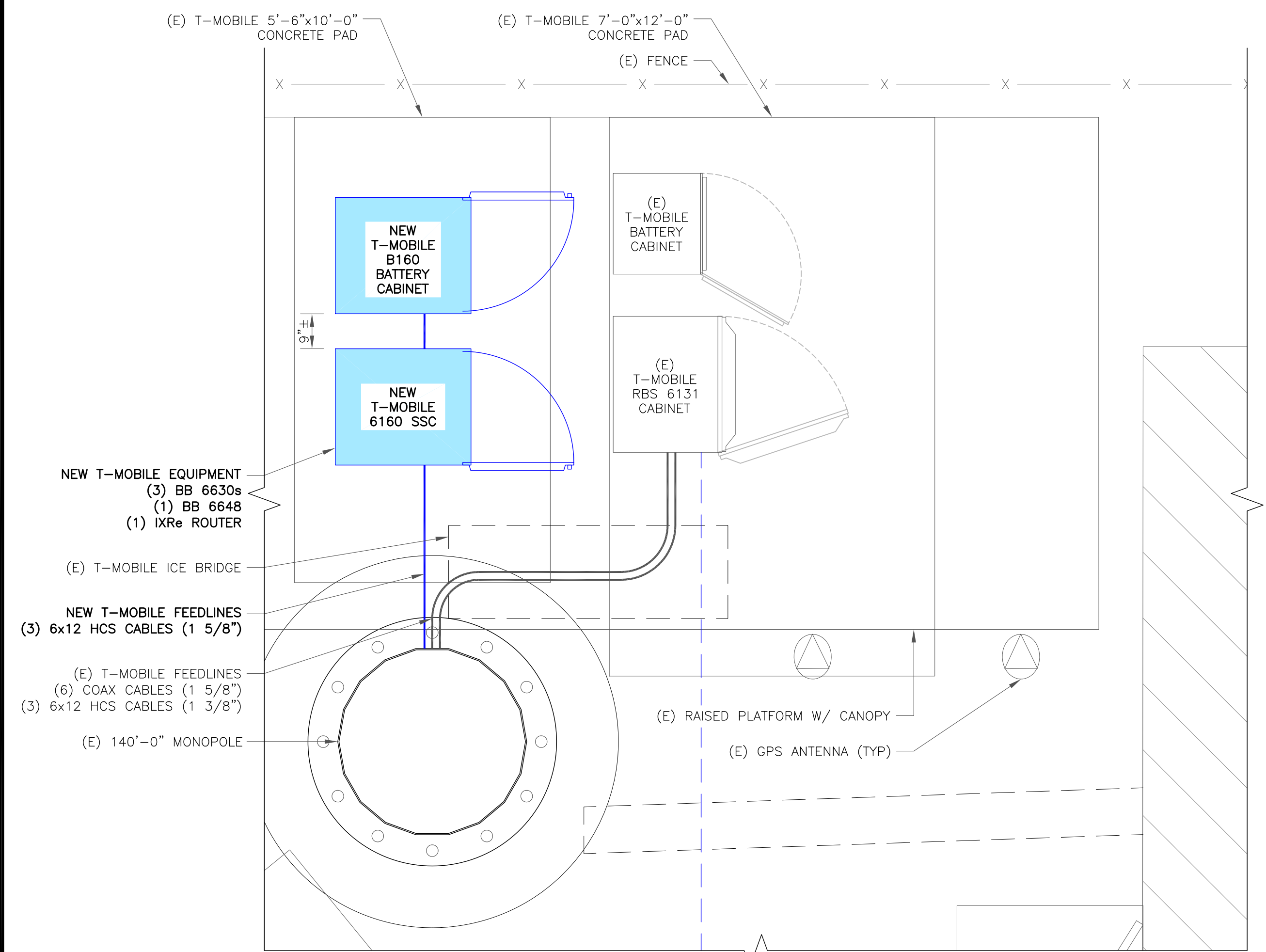
REVISION:
1

1 OVERALL SITE PLAN
 SCALE: 1"=30'-0" (FULL SIZE)
 1"=60'-0" (11x17)





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



2 FINAL EQUIPMENT PLAN
 SCALE: 3/4"=1'-0" (FULL SIZE)
 3/8"=1'-0" (11x17)

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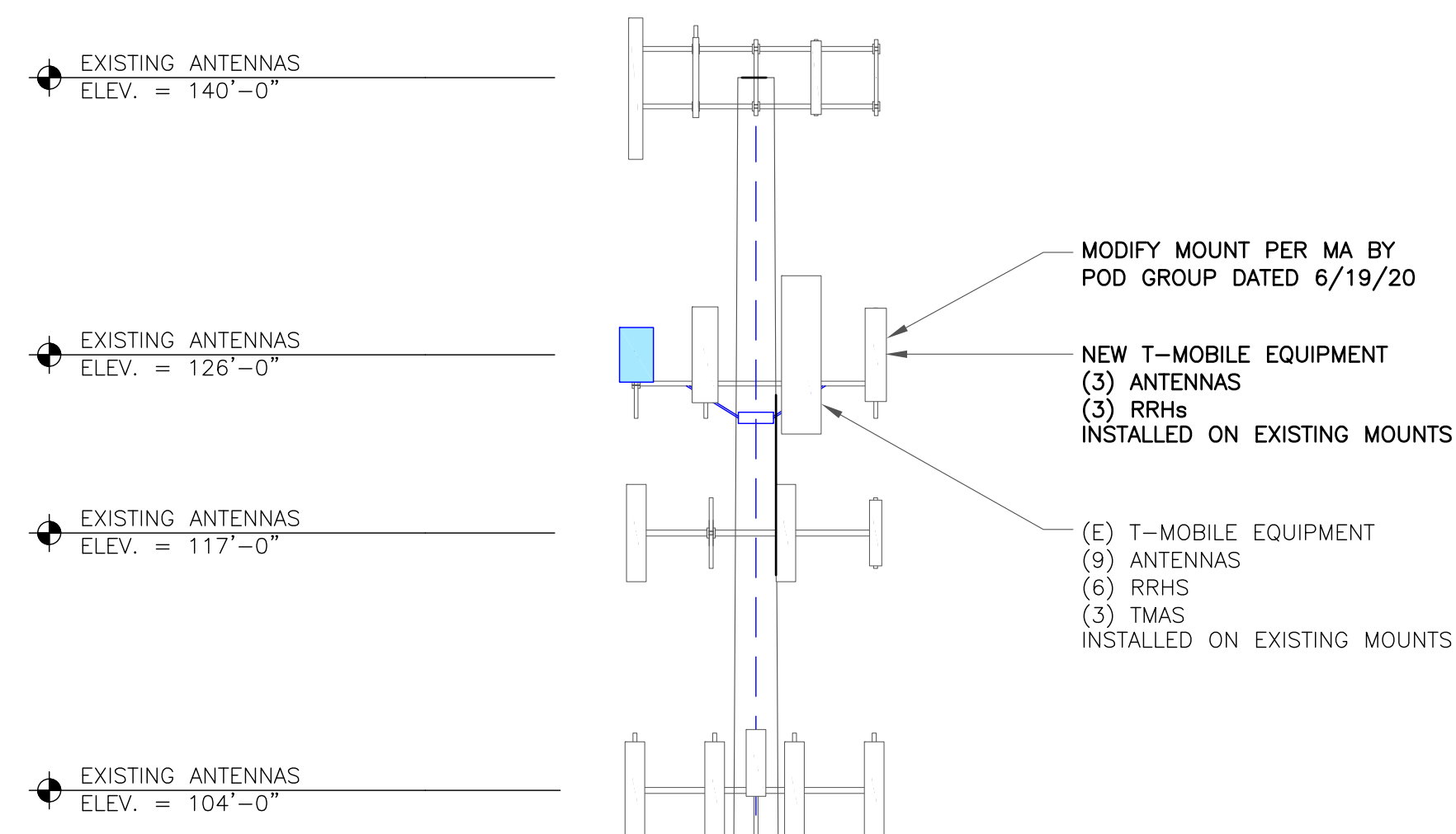
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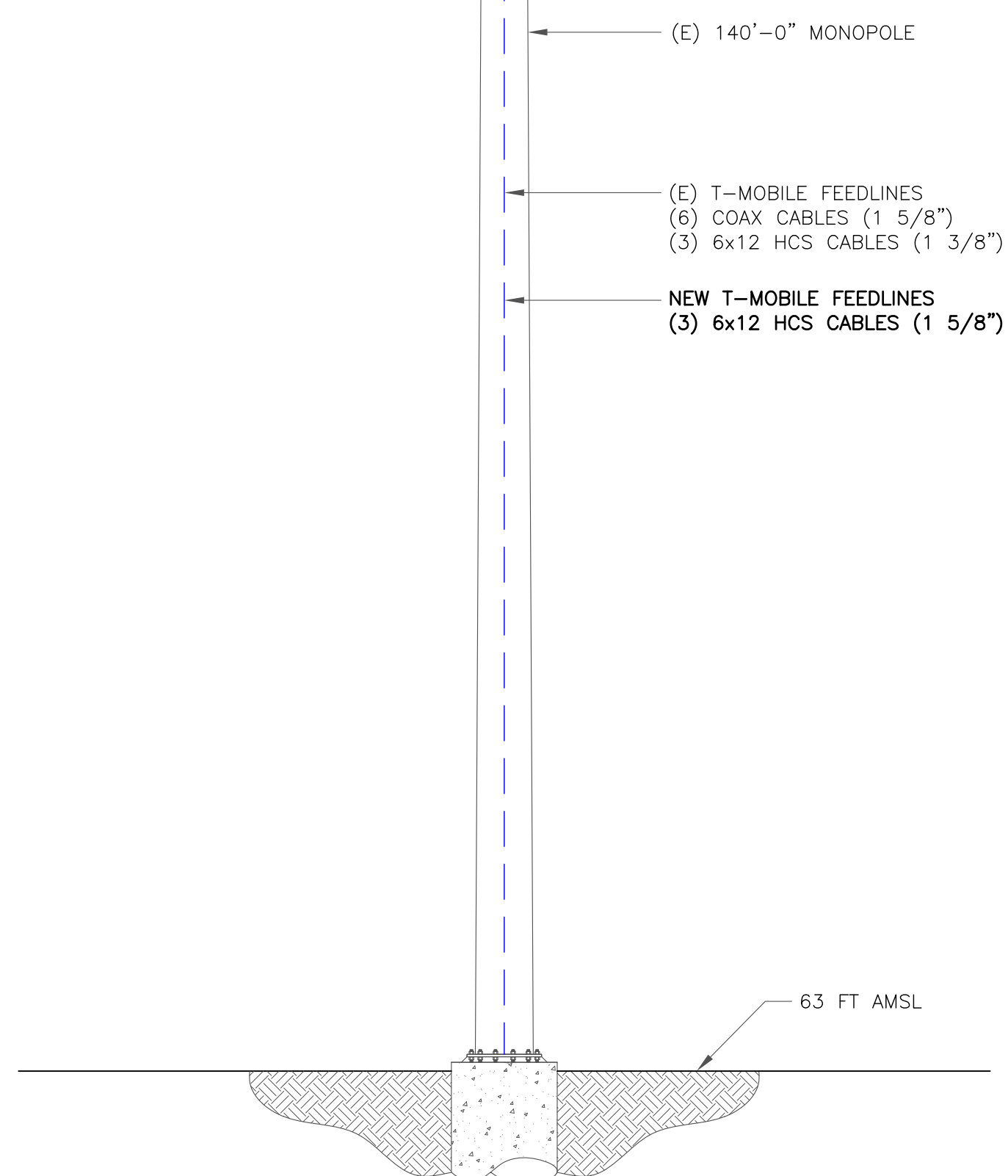
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T-MOBILE EQUIPMENT

ANTENNA CL: 128'-0"
MOUNT CL: 126'-0"

ANY AND ALL TOWER
MOUNTED EQUIPMENT MUST
NOT TRAP OR INTERFERE W/
EXISTING SAFETY CLIMB

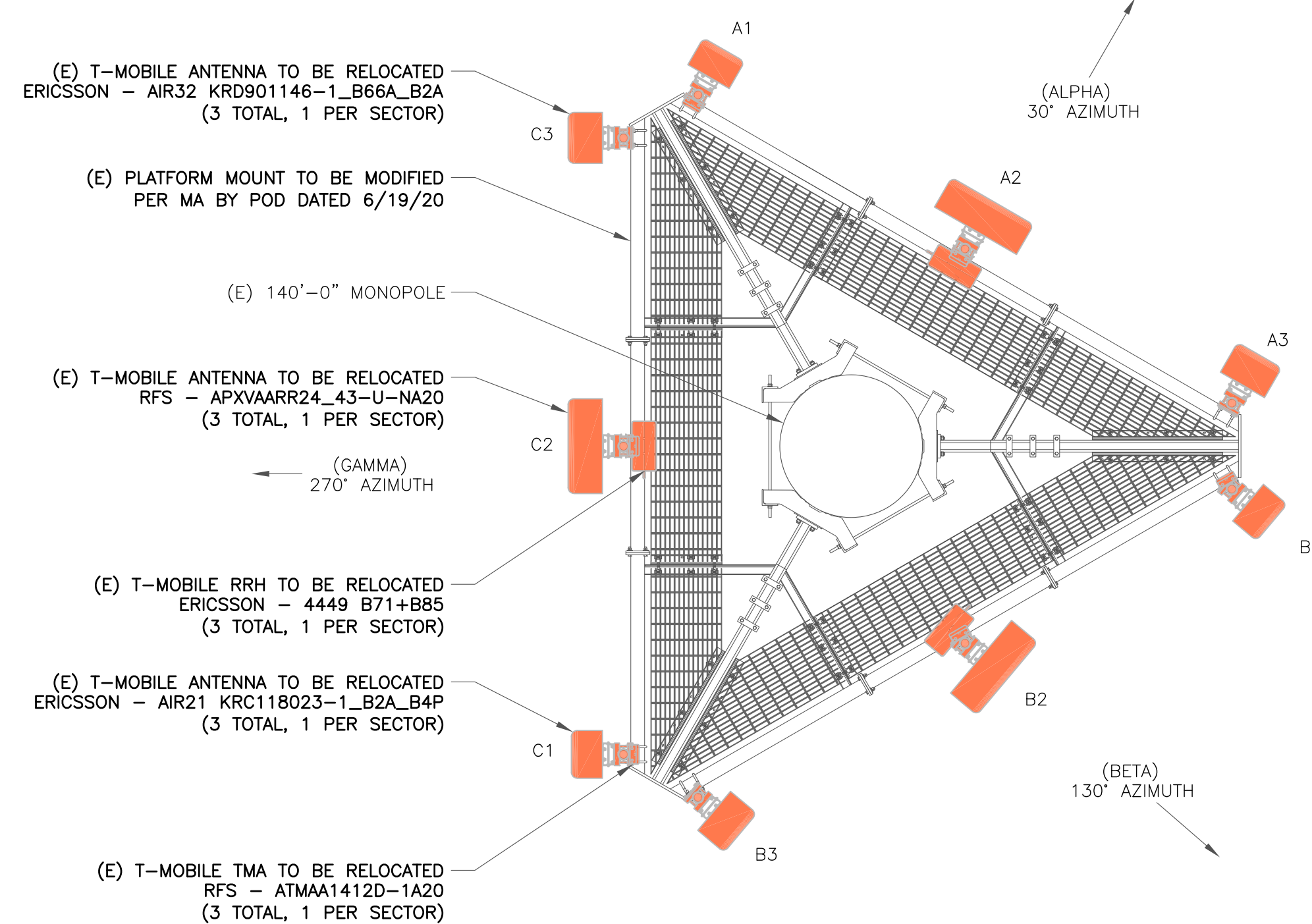


1 FINAL ELEVATION
SCALE: NOT TO SCALE

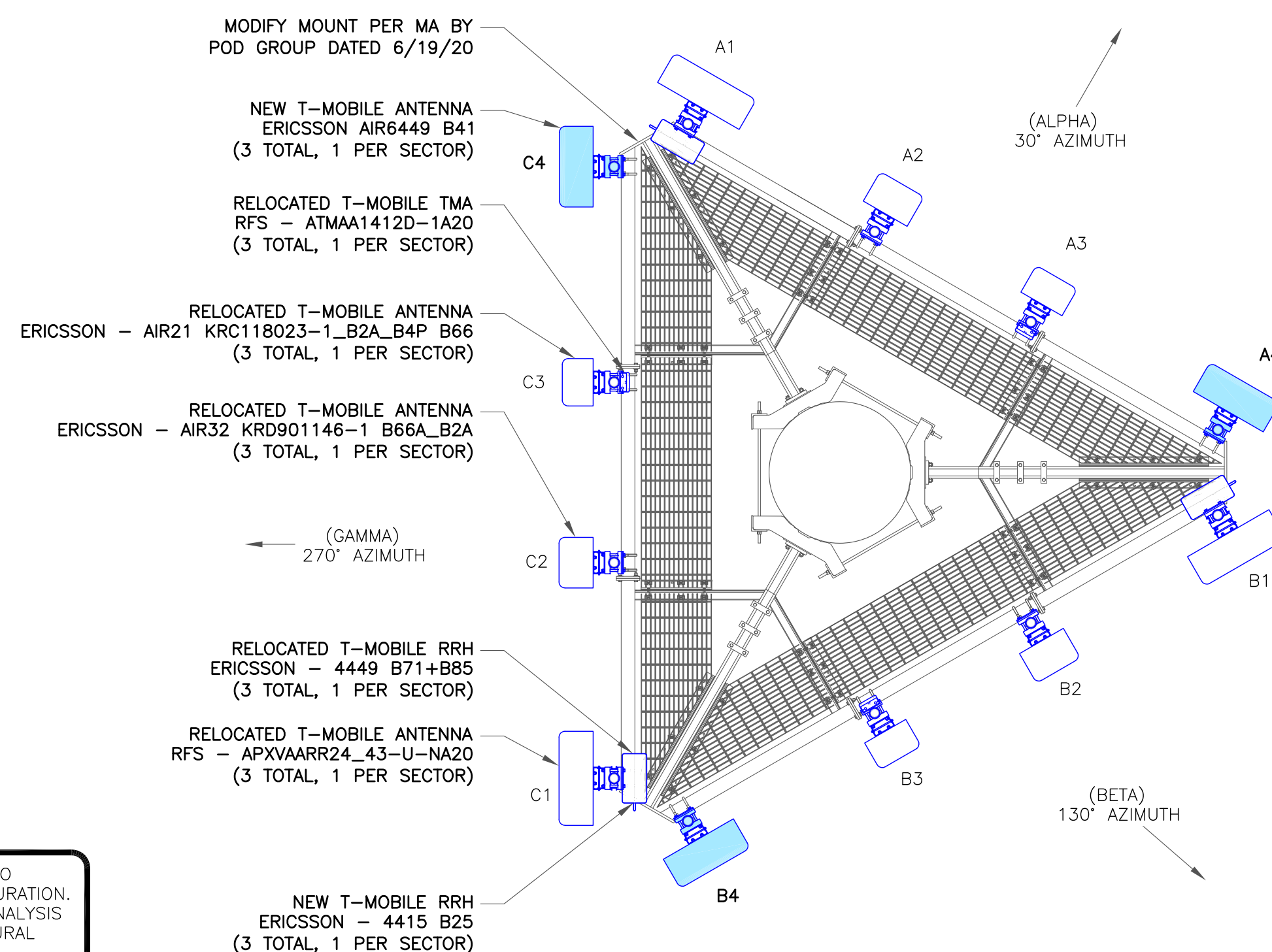
THE MOUNT HAS SUFFICIENT CAPACITY TO CARRY THE PROPOSED LOADING CONFIGURATION. IN ORDER FOR THE RESULTS OF THE ANALYSIS TO BE CONSIDERED VALID, THE STRUCTURAL MODIFICATIONS LISTED BELOW MUST BE COMPLETED.

1. KICKER SUPPORT, SITEPRO1 AND PRK-1245

ENGINEERING DETAIL DRAWINGS HAVE BEEN PROVIDED. CONNECTION FROM THE MOUNT TO THE TOWER AND LOCAL STRESSES ON THE TOWER ARE SUFFICIENT.



2 EXISTING ANTENNA LAYOUT
SCALE: NOT TO SCALE



3 FINAL ANTENNA LAYOUT
SCALE: NOT TO SCALE

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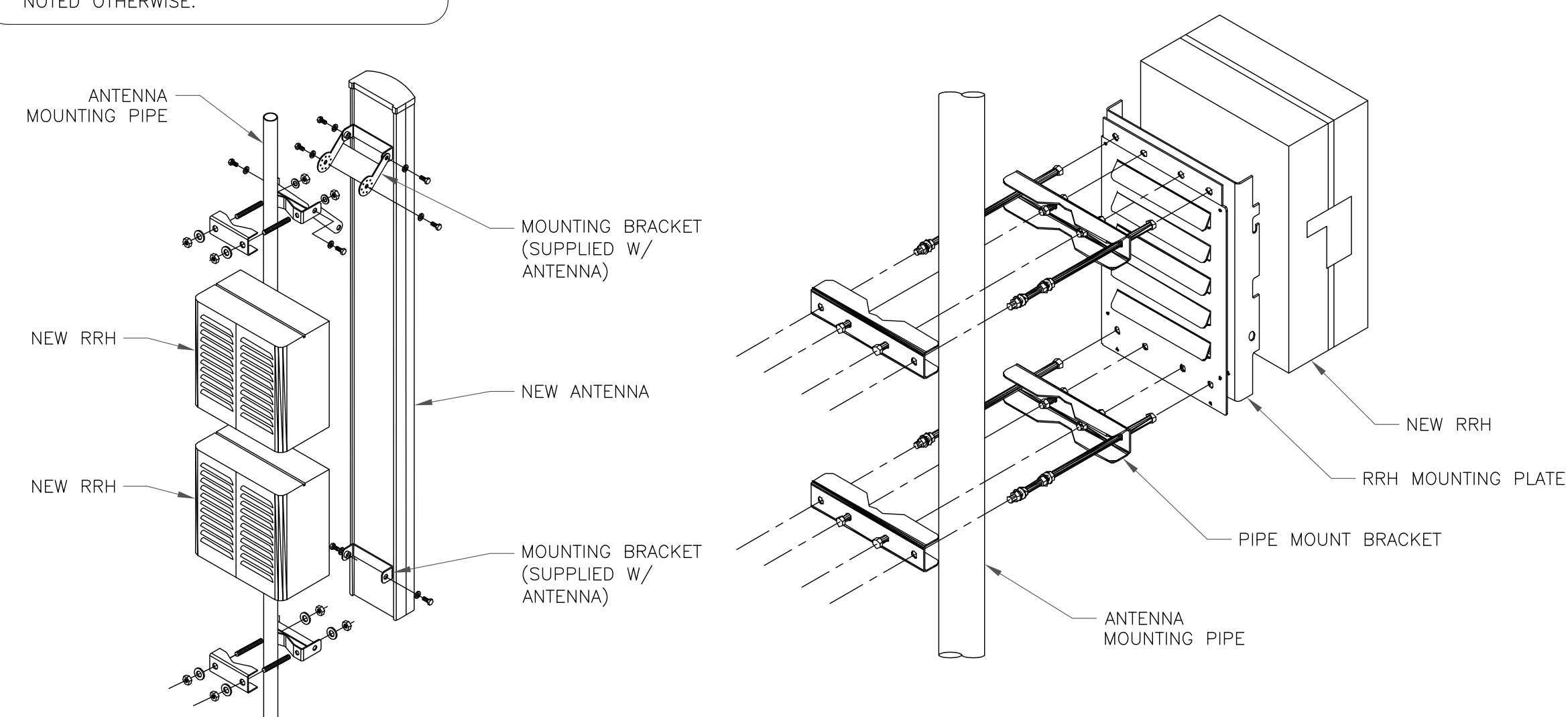
EXISTING
140'-0" MONOPOLE

ANTENNA SCHEDULE										
SECTOR	POS.	TECHNOLOGY	RAD CENTER	AZIMUTH	ANTENNA MANUFACTURER	ANTENNA MODEL	MECH. TILT	ELECT. TILT	TOWER MOUNTED EQUIPMENT	FEEDLINE TYPE
ALPHA	A1	L700/L600/N600 L1900	128'-0"	30°	RFS	APXVAAR25_43-U-NA20	0°	0°	(1) 4449 B71+B85 (1) 4415 B25	(1) 1 3/8" HYBRID
ALPHA	A2	L2100/L1900	128'-0"	30°	ERICSSON	AIR 32 KRD901146-1_B66A_B2A	0°	0°	-	HYBRID (SHARED)
ALPHA	A3	G1900/U2100	128'-0"	30°	ERICSSON	AIR21 KRC118023--_B2A_B4P	0°	0°	(1) ATMAA1412D-1A20	(2) 1 5/8" COAX
ALPHA	A4	L2500/N2500	128'-0"	30°	ERICSSON	AIR6449 B41	0°	0°	-	(1) 1 5/8" HYBRID
BETA	B1	L700/L600/N600 L1900	128'-0"	130°	RFS	APXVAAR25_43-U-NA20	0°	0°	(1) 4449 B71+B85 (1) 4415 B25	(1) 1 3/8" HYBRID
BETA	B2	L2100/L1900	128'-0"	130°	ERICSSON	AIR 32 KRD901146-1_B66A_B2A	0°	0°	-	HYBRID (SHARED)
BETA	B3	G1900/U2100	128'-0"	130°	ERICSSON	AIR21 KRC118023--_B2A_B4P	0°	0°	(1) ATMAA1412D-1A20	(2) 1 5/8" COAX
BETA	B4	L2500/N2500	128'-0"	130°	ERICSSON	AIR6449 B41	0°	0°	-	(1) 1 5/8" HYBRID
GAMMA	C1	L700/L600/N600 L1900	128'-0"	270°	RFS	APXVAAR25_43-U-NA20	0°	0°	(1) 4449 B71+B85 (1) 4415 B25	(1) 1 3/8" HYBRID
GAMMA	C2	L2100/L1900	128'-0"	270°	ERICSSON	AIR 32 KRD901146-1_B66A_B2A	0°	0°	-	HYBRID (SHARED)
GAMMA	C3	G1900/U2100	128'-0"	270°	ERICSSON	AIR21 KRC118023--_B2A_B4P	0°	0°	(1) ATMAA1412D-1A20	(2) 1 5/8" COAX
GAMMA	C4	L2500/N2500	128'-0"	270°	ERICSSON	AIR6449 B41	0°	0°	-	(1) 1 5/8" HYBRID

1 ANTENNA AND CABLE SCHEDULE
SCALE: NOT TO SCALE

INSTALLER NOTES:

1. COMPLY WITH MANUFACTURERS INSTRUCTIONS TO ENSURE THAT ALL RRHs RECEIVE ELECTRICAL POWER WITHIN 24 HOURS OF BEING REMOVED FROM THE MANUFACTURER'S PACKAGING.
2. DO NOT OPEN RRH PACKAGES IN THE RAIN.
3. ALL PIPES, BRACKETS, AND MISCELLANEOUS HARDWARE TO BE GALVANIZED UNLESS NOTED OTHERWISE.



2 ANTENNA WITH RRHs MOUNTING DETAIL
SCALE: NOT TO SCALE

ISSUED FOR:

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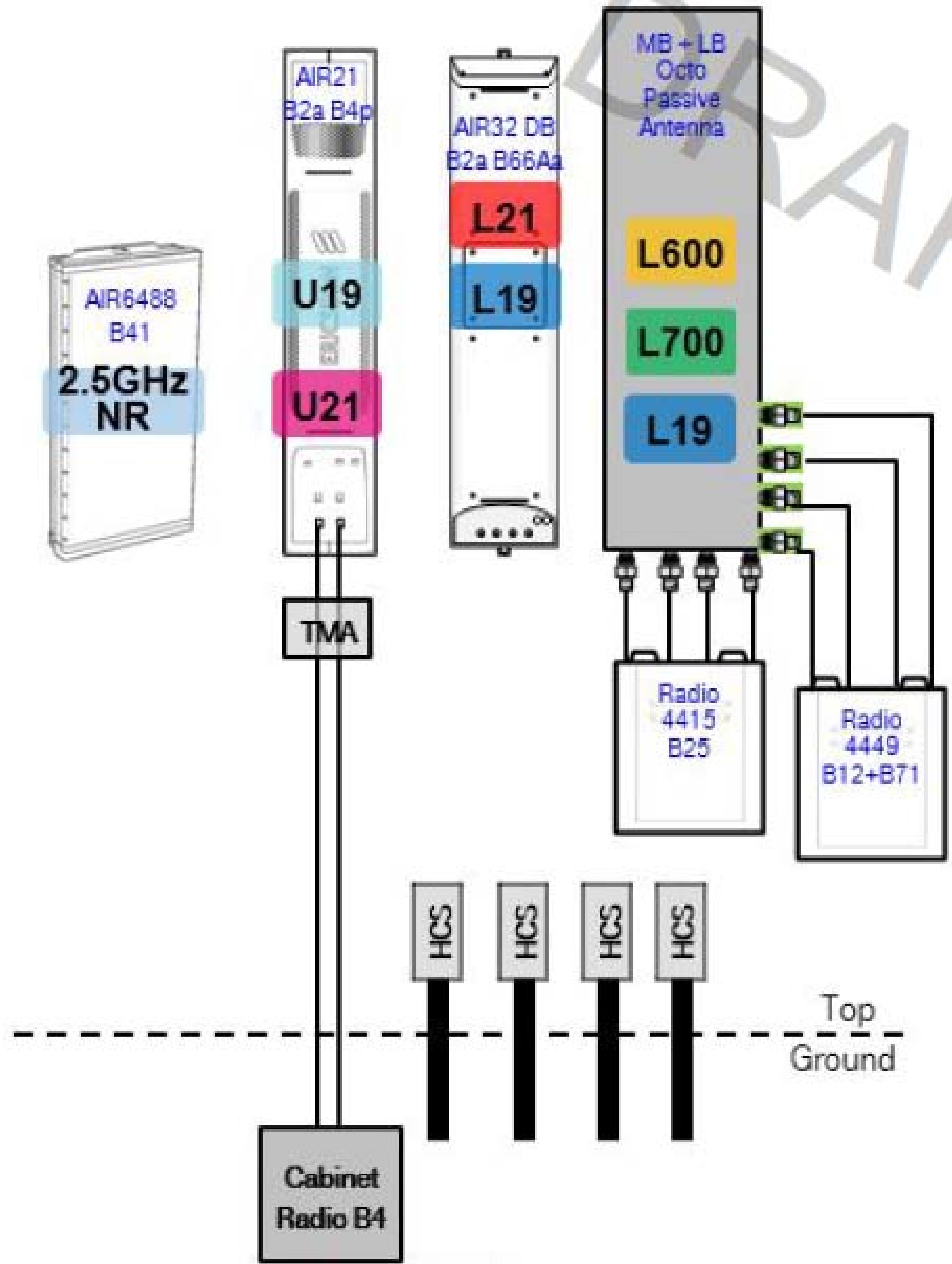
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SHEET NUMBER:

C-3

REVISION:

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Only if site has U21

1 PLUMBING DIAGRAM
SCALE: NOT TO SCALE

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T-MOBILE
SITE NUMBER: **CT11161D**

BU #: **806369**
HRT **094 943225**

439 HOMESTEAD AVE
HARTFORD, CT 06105

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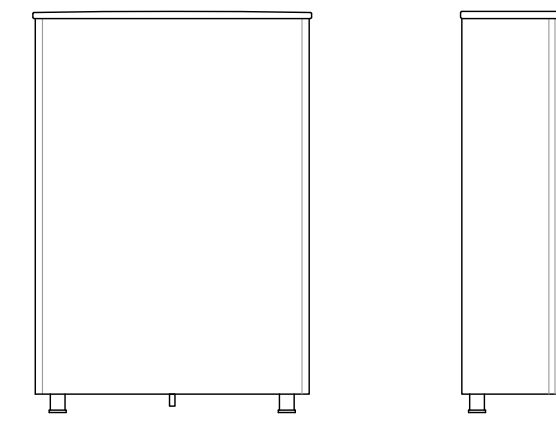


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SHEET NUMBER: **C-4** REVISION: **1**

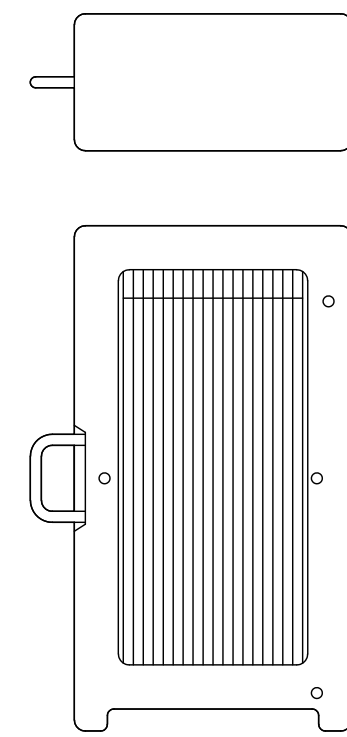
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ANTENNA SPECS

MANUFACTURER	ERICSSON
MODEL #	AIR6449 B41
WIDTH	20.6"
DEPTH	8.6"
HEIGHT	33.1"
WEIGHT	104 LBS

1 ANTENNA SPECS
SCALE: NOT TO SCALE



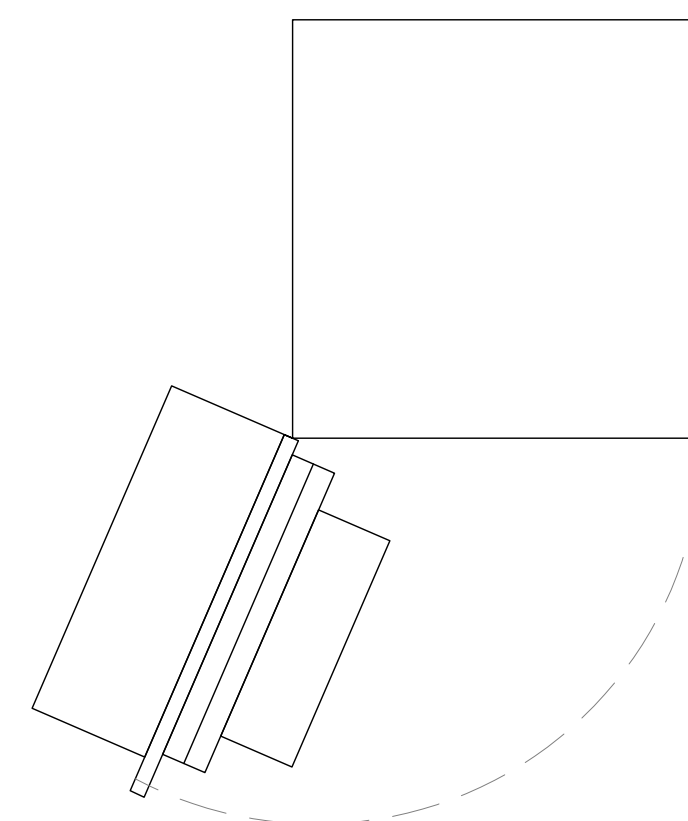
RRU SPECIFICATIONS

MANUFACTURER	ERICSSON
MODEL #	4415 B25
WIDTH	13.4"
DEPTH	5.9"
HEIGHT	16.5"
WEIGHT	46 LBS

2 RRU SPECS
SCALE: NOT TO SCALE



ERICSSON 6160 SSC
WEIGHT: 60.0 LBS
SIZE (HxWxD): 63"x25.6"x33.5" IN.



3 ERICSSON 6160 SSC
SCALE: NOT TO SCALE



BATTERY CABINET SPECIFICATIONS	
MODEL #	B160
MANUF.	ERICSSON
HEIGHT	63"
WIDTH	26"
DEPTH	26"
WEIGHT	

4 ERICSSON B160 BATTERY CABINET
SCALE: NOT TO SCALE

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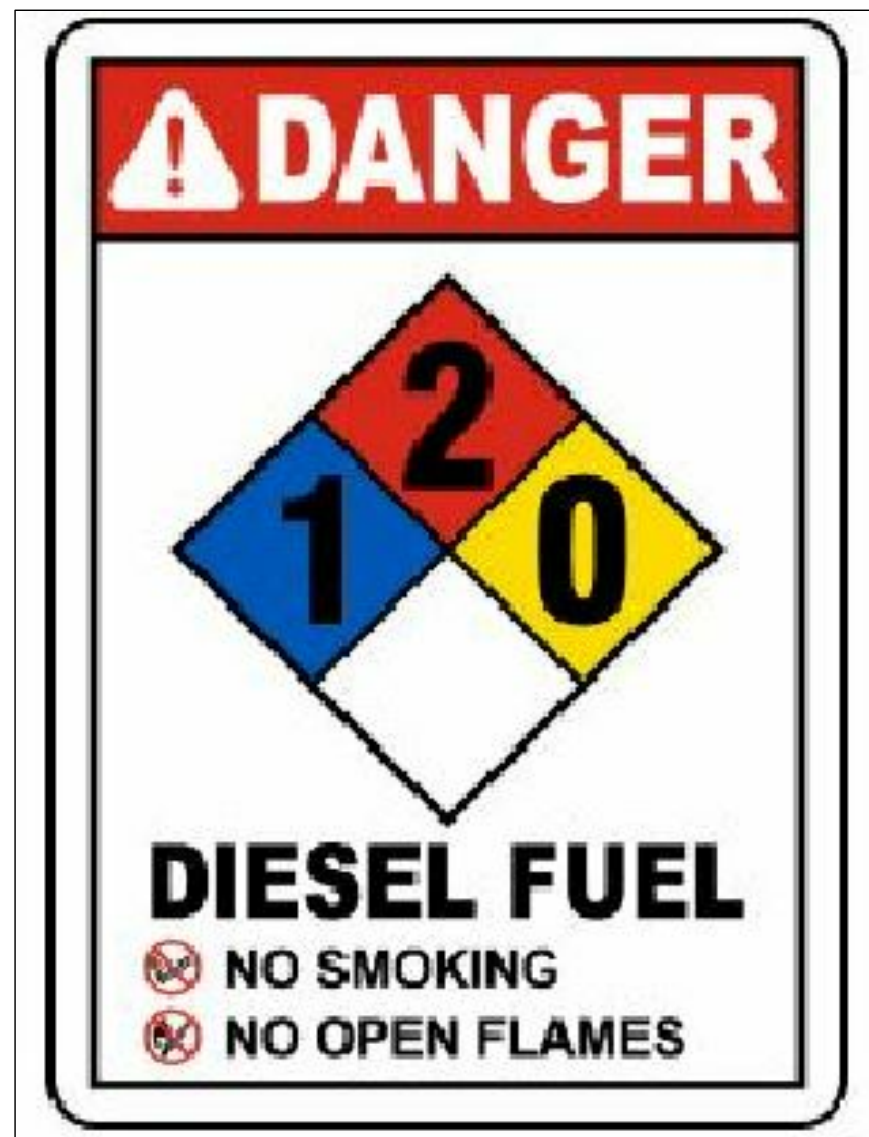
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C-5

1

NEPA 704 HAZARD IDENTIFICATION SYSTEM DIAMOND
10X14 VINYL REFLECTIVE ADHESIVE



DIESEL FUEL
COMBUSTIBLE
NO SMOKING
NO OPEN FLAMES
FUEL TANK CAPACITY 54 GALS

(WHITE LETTERING W/
RED & BLACK BACKGROUND)
6X10 REFLECTIVE ADHESIVE

DIESEL

(WHITE LETTERING W/
RED BACKGROUND)

COMBUSTIBLE

(BLACK LETTERING W/
WHITE BACKGROUND)

FLAMMABLE

(BLACK LETTERING W/
WHITE BACKGROUND)

NO SMOKING

(BLACK LETTERING W/
WHITE BACKGROUND)

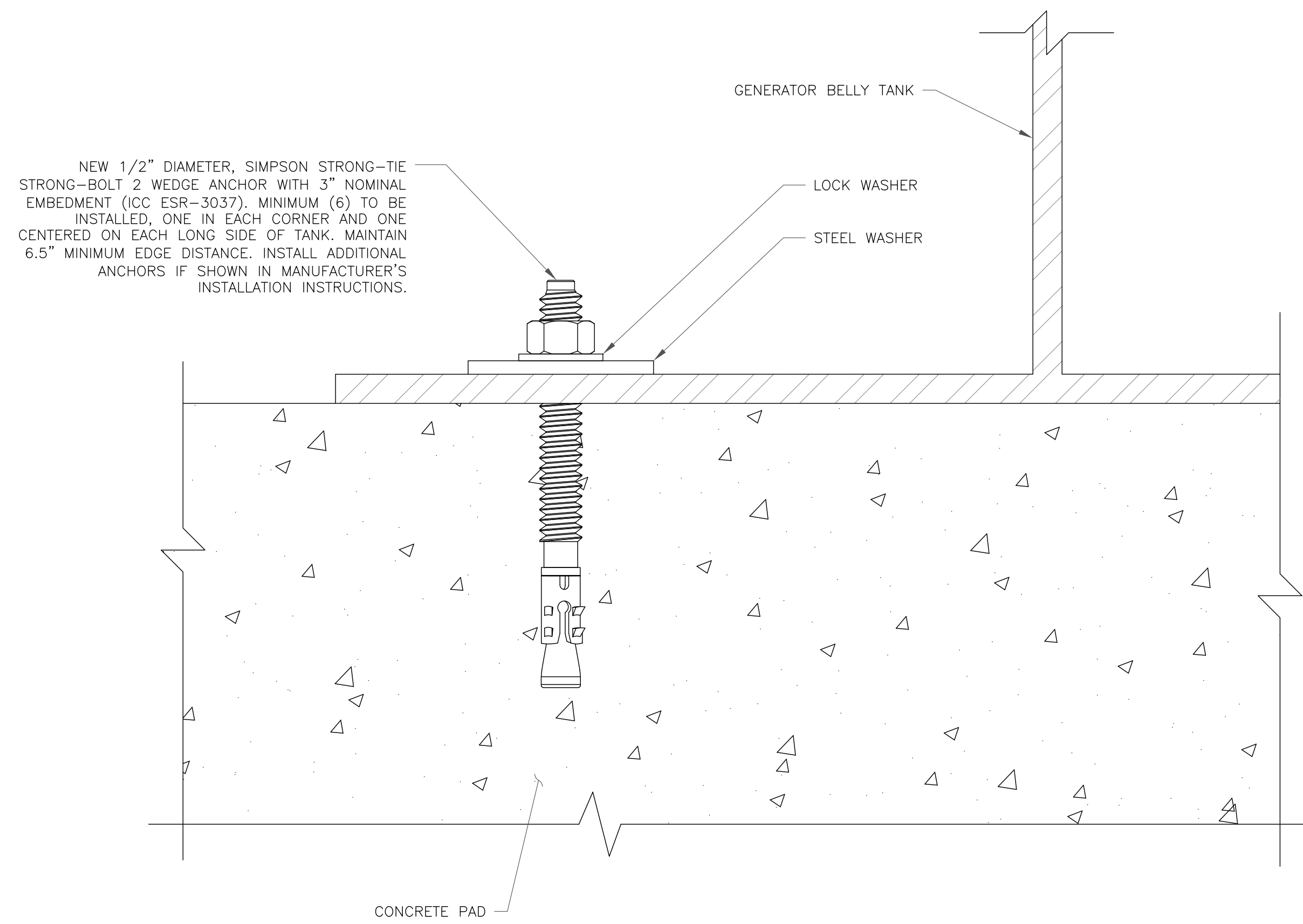
NOTE:

1. SIGNS MUST BE MADE OF DURABLE MATERIAL.
2. LETTERS SHALL NOT BE LESS THAN 1" (76.2mm) MIN. IN HEIGHT & 1/4" (12.7mm) IN STROKE.
3. SIGNS SHALL NOT BE OBSCURED OR REMOVED & SHALL BE IN ENGLISH AS A PRIMARY LANGUAGE.
4. SIGNS TO BE PLACED ON GENERATOR/FUEL TANK PER NEPA 704.
5. CONTRACTOR TO PROVIDE ALL REQUIRED SIGNAGE.

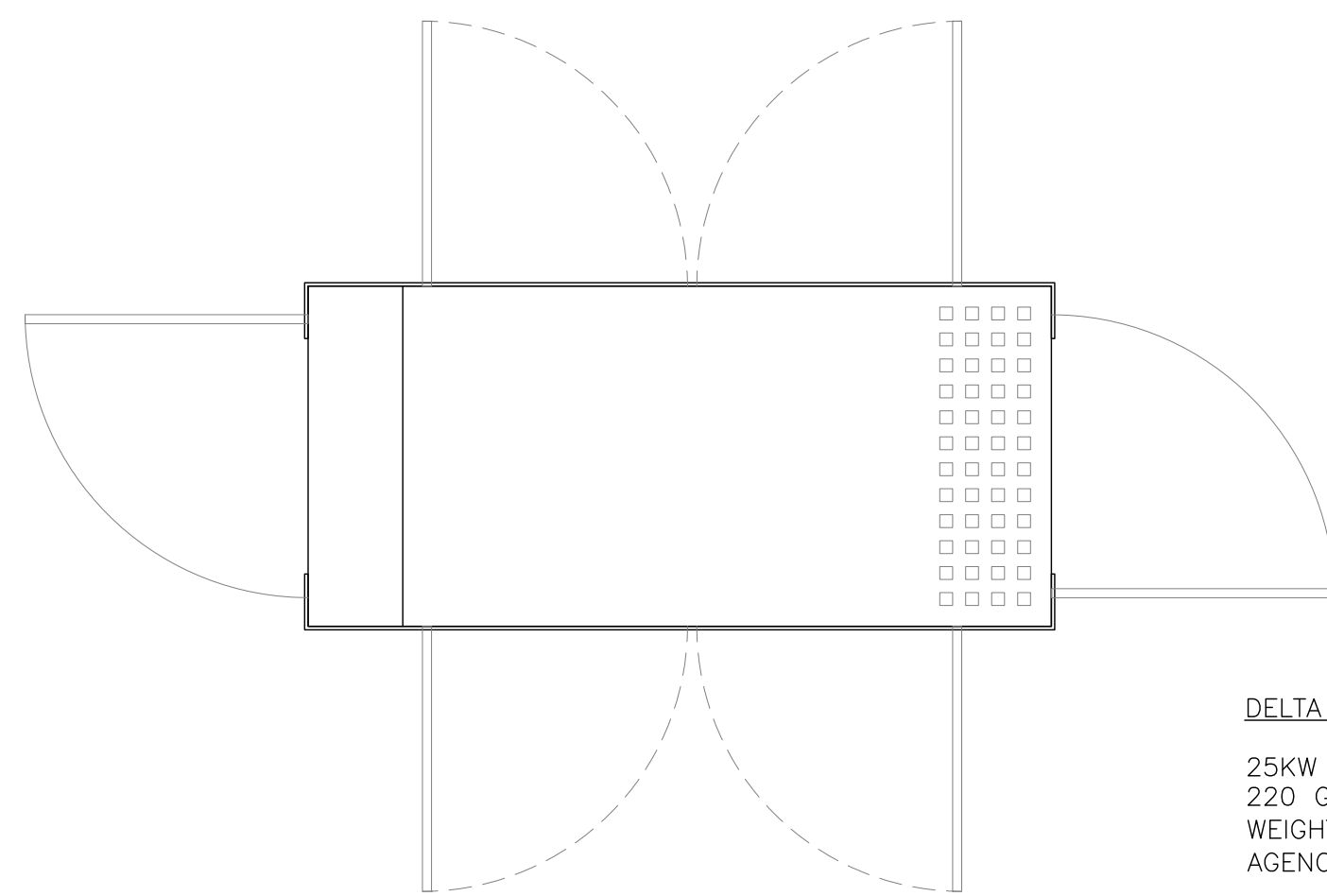
HAZARD RATINGS:

- NINE O'CLOCK - HEALTH (BLUE BACKGROUND, BLACK LETTERING)
- TWELVE O'CLOCK - FLAMMABILITY (RED BACKGROUND, BLACK LETTERING)
- THREE O'CLOCK - INSTABILITY (YELLOW BACKGROUND, BLACK LETTERING)
- SIX O'CLOCK - SPECIAL (WHITE BACKGROUND, BLACK LETTERING)

1 GENERATOR SIGN DETAIL
SCALE: NOT TO SCALE

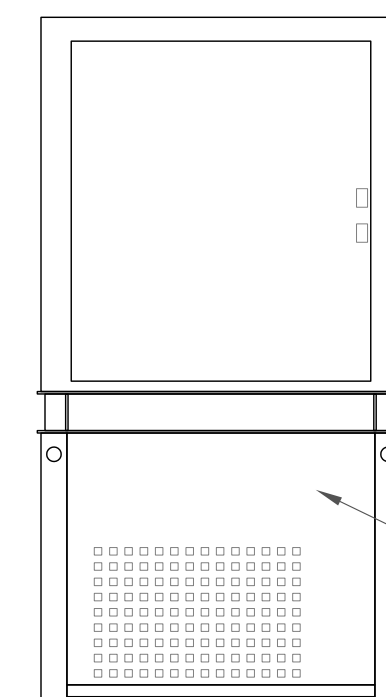
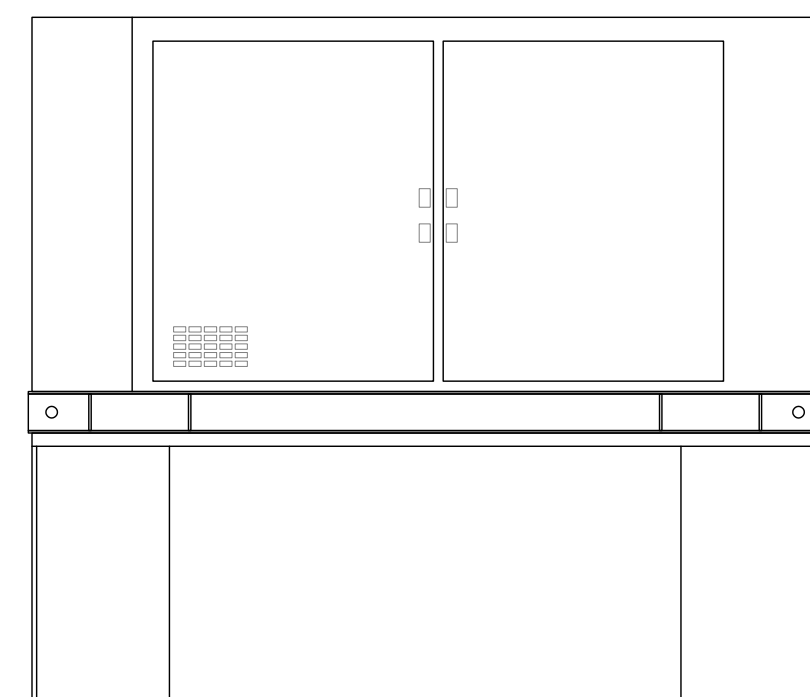


2 GENERATOR ANCHORAGE DETAIL
SCALE: NOT TO SCALE



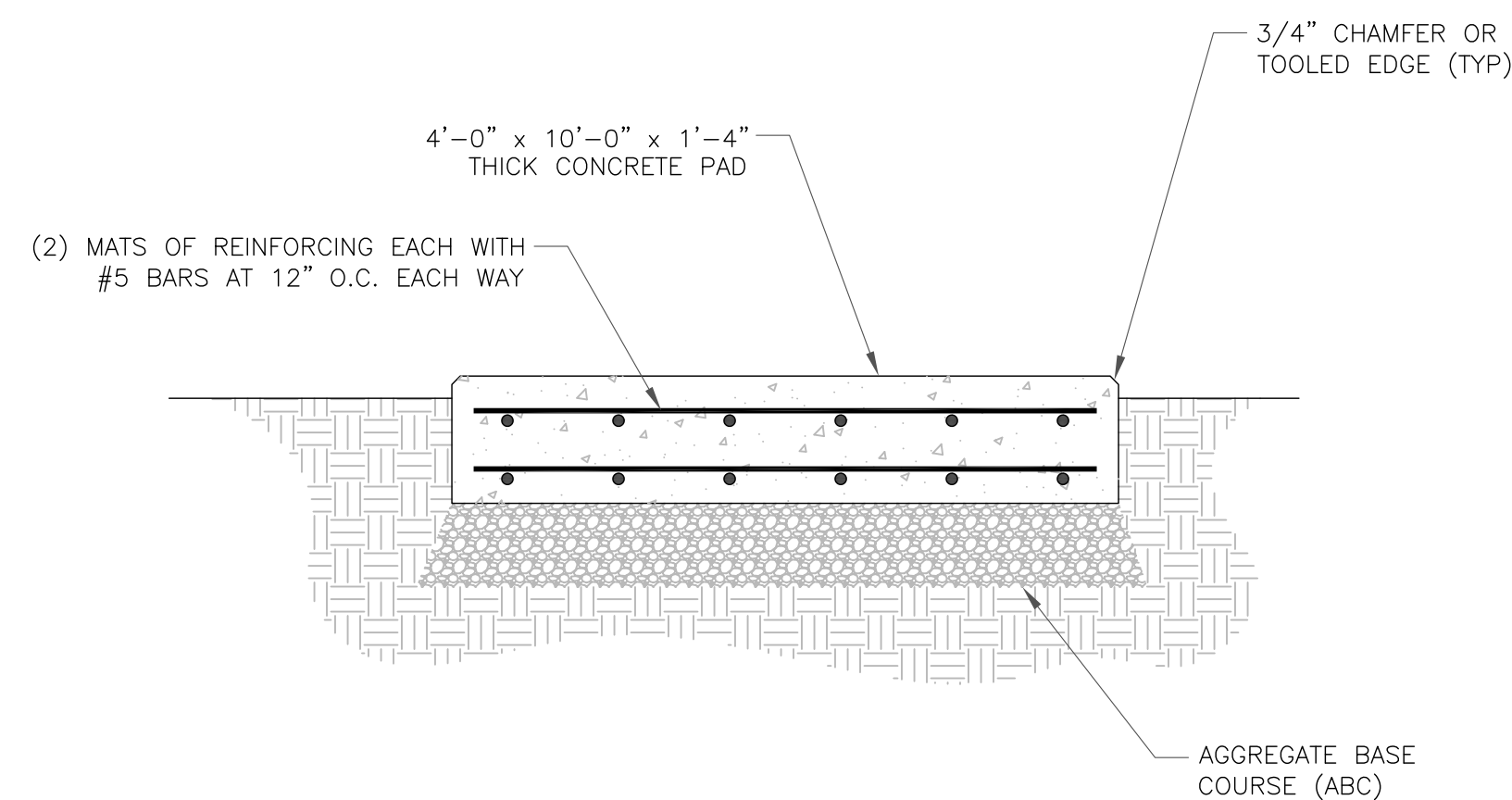
DELTA - ESOG150-PCA01:

25KW DIESEL DC GENERATOR
220 GALLON FUEL TANK
WEIGHT: 5,000 LBS MAX (APPROXIMATE)
AGENCY LISTINGS: UL 2200/UL 142



220 GALLON
FUEL TANK

3 DIESEL DC GENSET 25 KW (ESOG150-PCA01)
SCALE: NOT TO SCALE



NOTES:

- 1) MINIMUM CONCRETE STRENGTH (f'c) TO BE 4,500 psi UNLESS NOTED OTHERWISE. CONCRETE MIX SHALL BE DESIGNED BY A CERTIFIED LABORATORY. CONCRETE EXPOSED TO FREEZE-THAW CYCLES TO CONTAIN AIR ENTRAINING ADMIXTURES. AMOUNT OF AIR ENTRAINMENT TO BE BASED ON SIZE OF AGGREGATE AND F2 CLASS EXPOSURE. CEMENT USED TO BE TYPE II PORTLAND CEMENT WITH A WATER-TO-CEMENT RATIO (W/C) NOT TO EXCEED 0.45.
- 2) CONCRETE PAD SHALL BEAR ON A MINIMUM OF 8" OF AGGREGATE BASE COURSE (ABC) MATERIAL COMPACTED TO 98% OF MAXIMUM DENSITY DETERMINED BY ASTM D1557 (MODIFIED PROCTOR). MATERIAL SHOULD BE WITHIN 3% OF OPTIMUM MOISTURE AT TIME OF COMPACTION.
- 3) ALL REINFORCING TO MAINTAIN 3" COVER WHEN CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH.

4 CONCRETE PAD DETAIL
SCALE: NOT TO SCALE

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SHEET NUMBER:

E-1

REVISION:

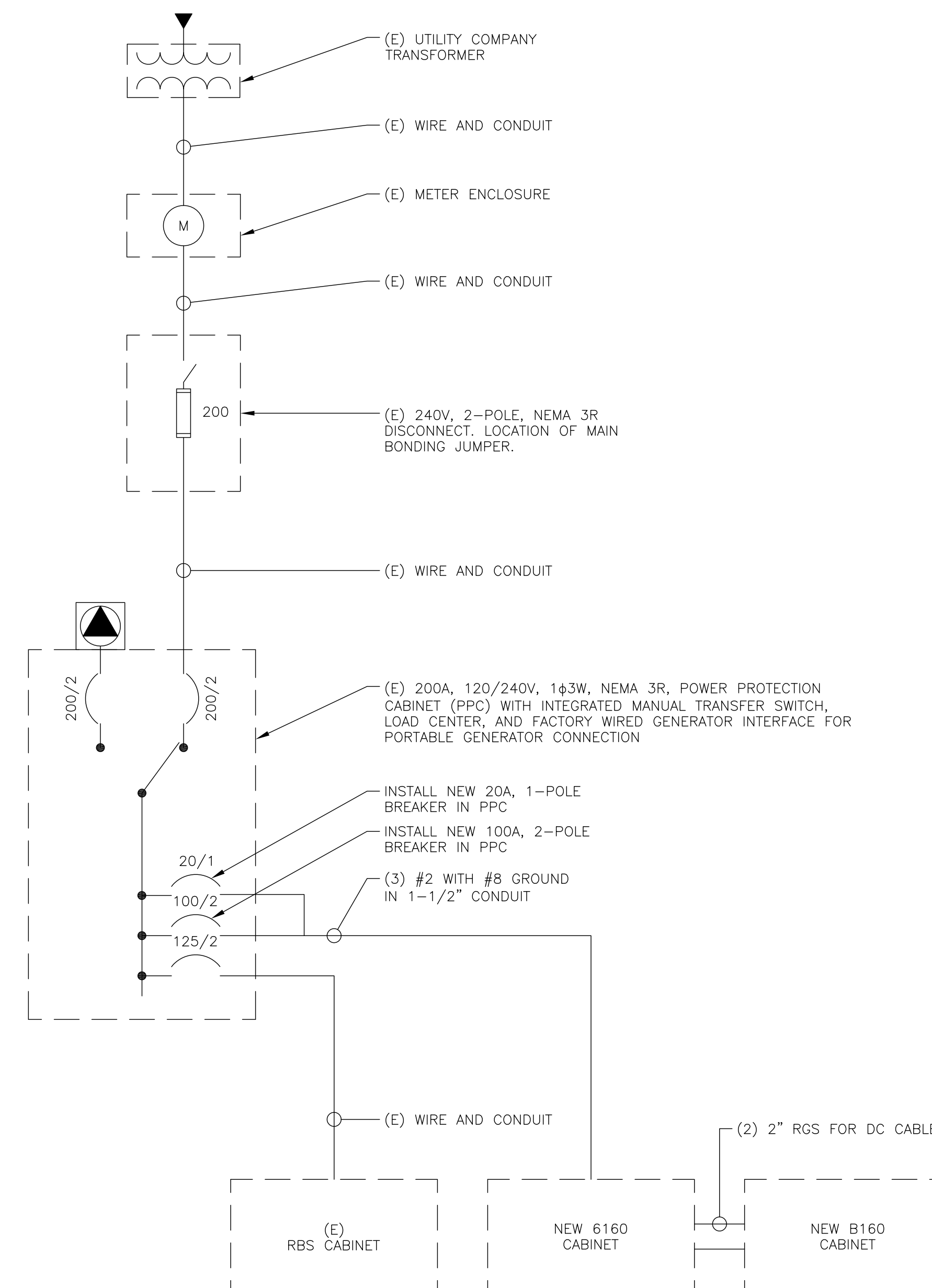
1

FINAL PANEL SCHEDULE							
LOAD	POLES	AMPS	BUS		AMPS	POLES	LOAD
			L1	L2			
PROPOSED 6160	2	100A	1	2	125A	2	6131
PROPOSED GFCI	1	20A	5	6	20A	1	EQUIPMENT
			7	8	20A	1	INT LIGHT
			9	10			
			11	12			
			13	14			
			15	16			
EQUIPMENT	2	60A	17	18			
			19	20			
			21	22			
			23	24			
			25	26			
			27	28			
			29	30			

RATED VOLTAGE: 120/240 1 PHASE, 3 WIRE
 BRANCH POLES: 12 24 30 42
 APPROVED MF'RS
 RATED AMPS: 100 200 400
 CABINET: SURFACE FLUSH
 NEMA 1 3R 4X
 MAIN LUGS ONLY MAIN 200 AMPS BREAKER FUSED SWITCH HINGED DOOR
 KEYS DOOR LATCH
 FUSED CIRCUIT BREAKER BRANCH DEVICES TO BE GFCI BREAKERS
 FULL NEUTRAL BUS GROUND BAR
 ALL BREAKERS MUST BE RATED TO INTERRUPT A SHORT CIRCUIT ISC OF 10,000 AMPS SYMMETRICAL

REPLACE EXISTING BREAKER IN POSITION 1 AND 3 WITH A NEW 2P 100A BREAKER. INSTALL NEW 1P 20A BREAKER IN POSITION 5.
 REPLACE EXISTING WIRES FOR PROPOSED 6160 CABINET WITH (3) 1/0 AWG THWN (COPPER) AND (1) #6G AWG. MINIMUM CONDUIT SIZE TO BE 2".
 IF 100A BREAKER WILL NOT PROPERLY FIT IN EXISTING PANEL, REPLACE (E) PANEL WITH SQUARE D PANEL Q012040M200RB (OR APPROVED EQUAL).
 UPGRADE FEEDER WIRES TO MEET AMPACITY IF NEW PANEL IS REQUIRED.
 FINAL PANEL DESIGN AND CALCULATIONS FOR WIRE SIZE WERE BASED OFF OF EXISTING PHOTOS

1 FINAL T-MOBILE PANEL DETAIL
SCALE: NOT TO SCALE



NOTES:

- ALL NEW CONDUCTORS TO BE INSTALLED SHALL BE COPPER. ALL CONDUCTORS SHALL BE THHW, THWN, THWN-2, XHHW, XHHW-2, THW, THW-2, RHW, OR RHW-2 UNLESS NOTED OTHERWISE.
- CONTRACTOR IS TO FIELD VERIFY ALL EXISTING ITEMS SHOWN ON THE ELECTRICAL ONE-LINE DIAGRAM AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
- ALL GROUNDING AND BONDING PER THE NEC.

2 ONE LINE DIAGRAM
SCALE: NOT TO SCALE

1 AC PANEL SCHEDULE
SCALE: NOT TO SCALE

T-Mobile

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CROWN CASTLE

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B+T GRP

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SUITE 300
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PH: (918) 587-4630
www.btgrp.com

T-MOBILE
SITE NUMBER: **CT11161D**

BU #: **806369**
HRT 094 943225

439 HOMESTEAD AVE
HARTFORD, CT 06105

EXISTING
140'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	07/20/20	DLS	PRELIMINARY	RMC
0	8/11/20	DLS	CONSTRUCTION	RMC
1	8/20/20	MLC	CONSTRUCTION	MTJ



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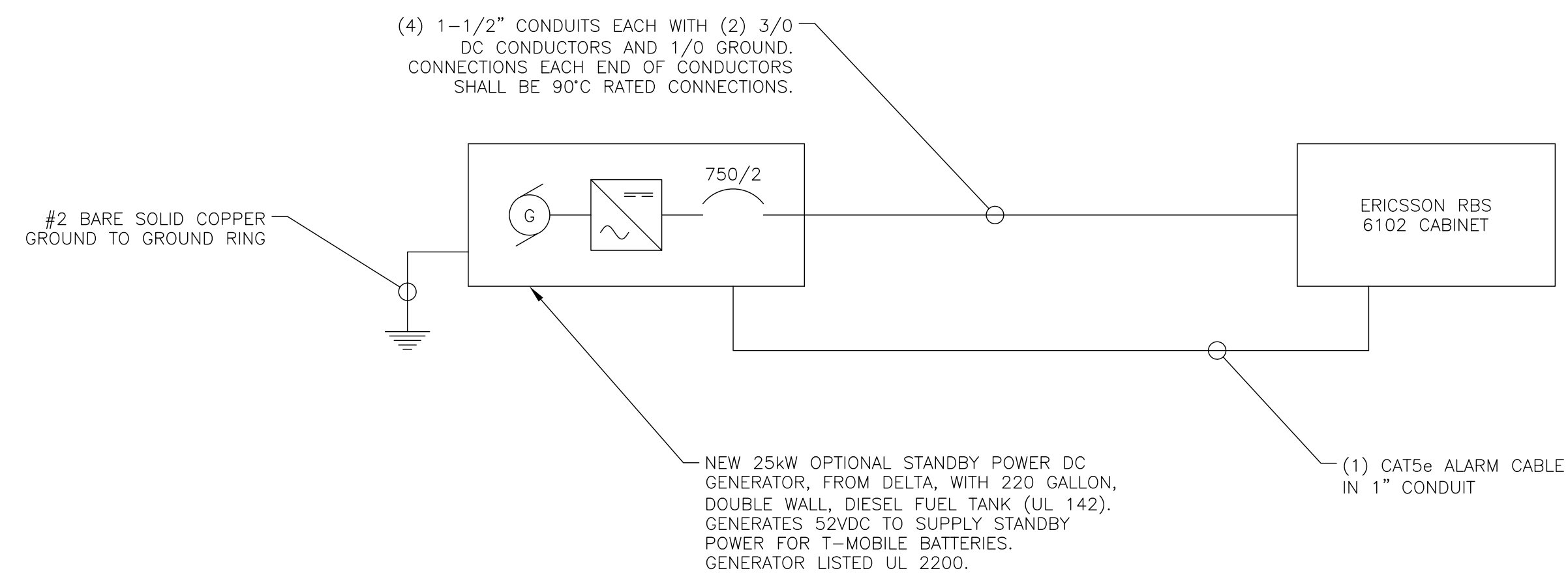
E-2

REVISION:

1

NOTES:

1. ALL NEW CONDUCTORS TO BE INSTALLED SHALL BE COPPER. ALL CONDUCTORS SHALL BE THHW, THWN, THWN-2, XHHW, XHHW-2, THW, THW-2, RHW, OR RHW-2 UNLESS NOTED OTHERWISE.
2. CONTRACTOR IS TO FIELD VERIFY ALL EXISTING ITEMS SHOWN ON THE ELECTRICAL ONE-LINE DIAGRAM AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
3. ALL GROUNDING AND BONDING PER THE NEC.



1 DC GENERATOR ONE LINE DIAGRAM
SCALE: NOT TO SCALE

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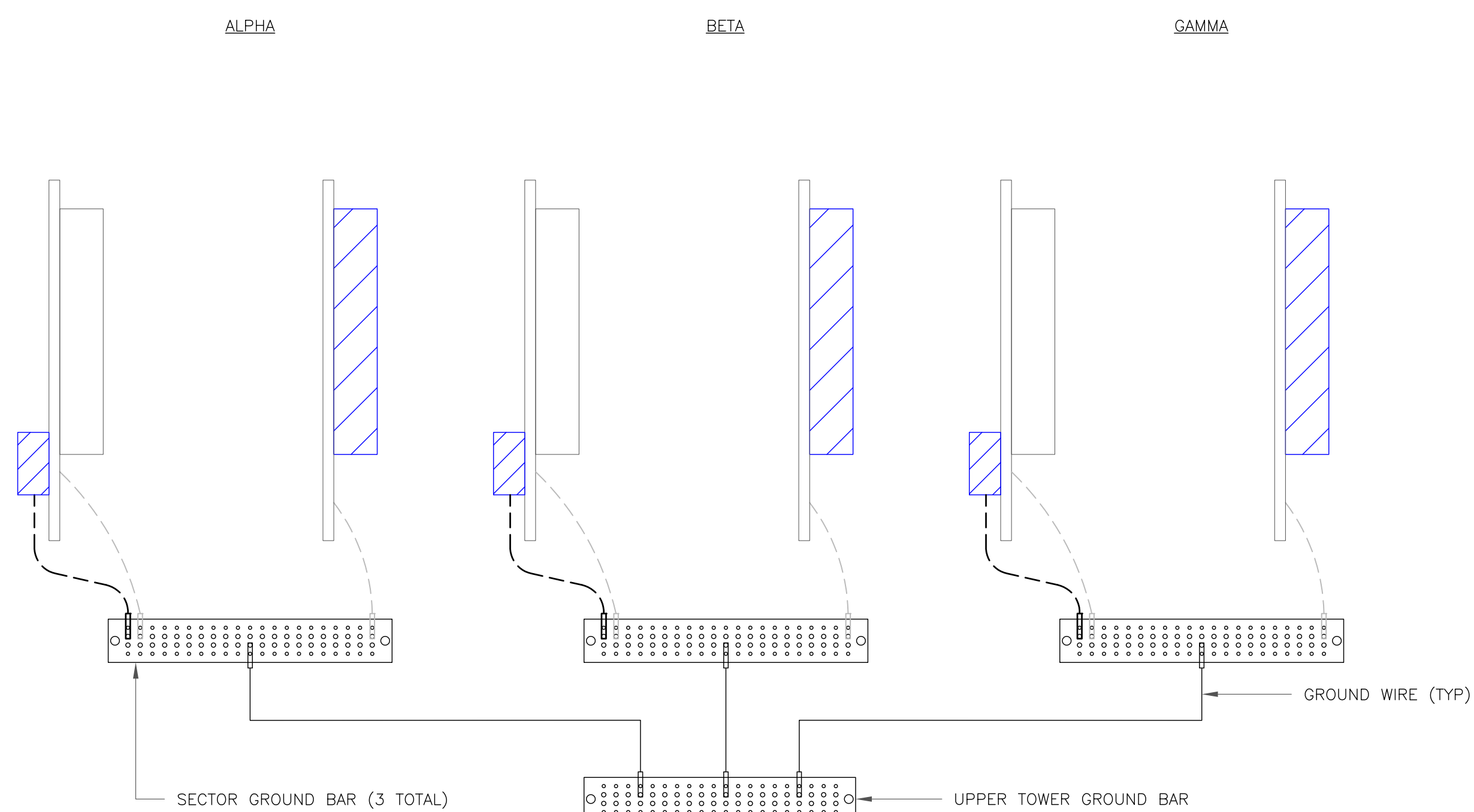
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SHEET NUMBER:

G-1

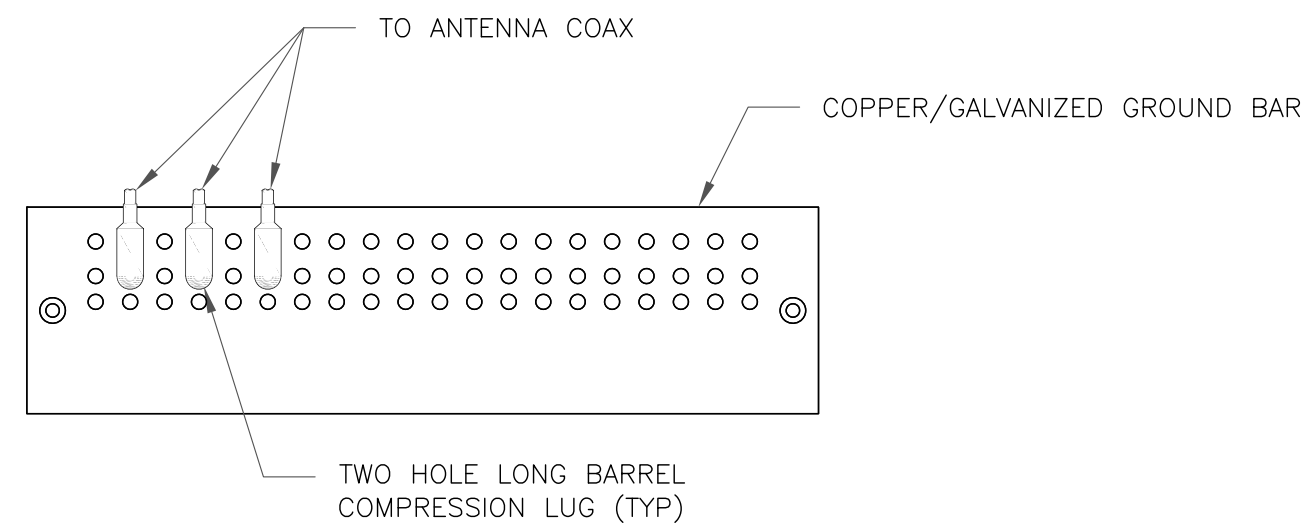
REVISION:

1



NOTE:
ALL NEW GROUNDS TO BE #6 STRANDED
COPPER WITH GREEN INSULATION UNLESS
NOTED OTHERWISE.

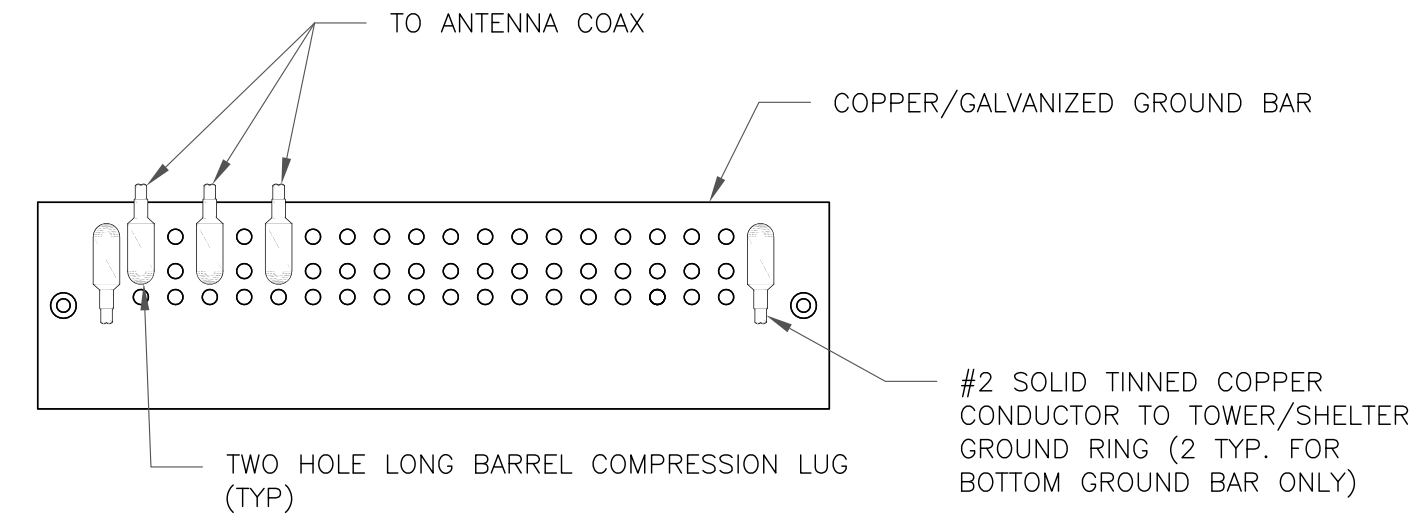
1 ANTENNA GROUNDING DIAGRAM
SCALE: NOT TO SCALE



NOTES:

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

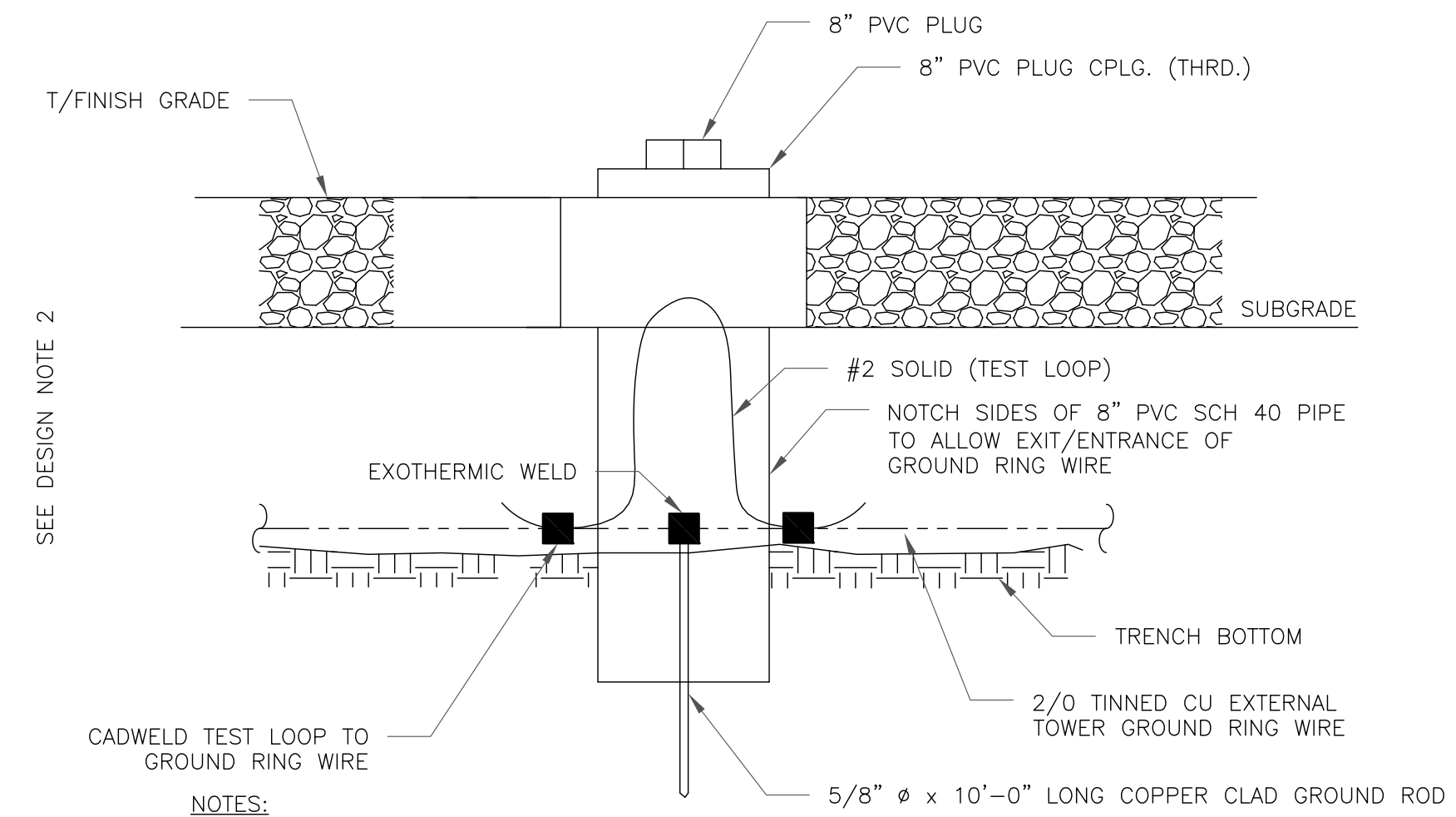
1 ANTENNA SECTOR GROUND BAR DETAIL
SCALE: NOT TO SCALE



NOTES:

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

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

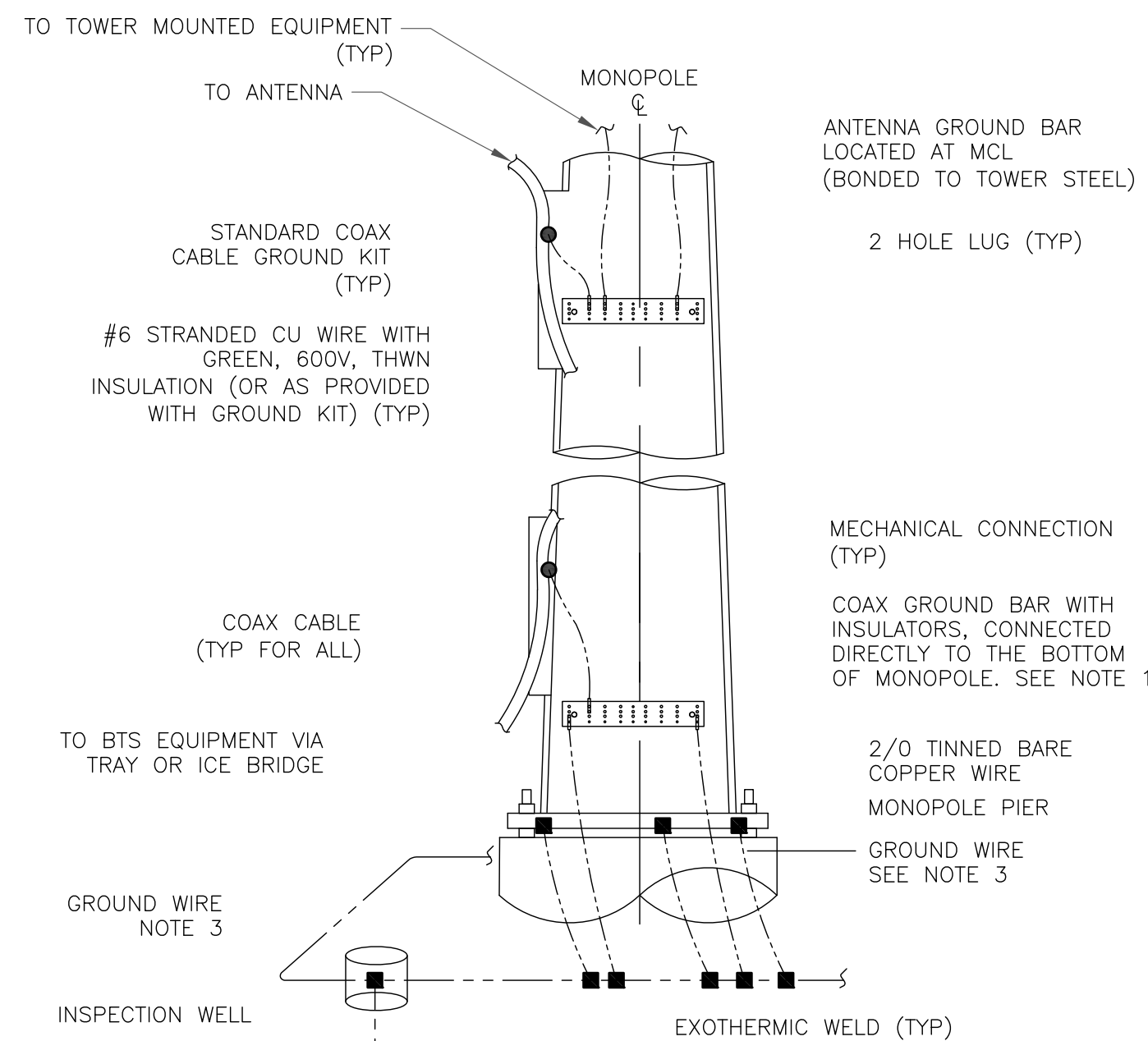


SEE DESIGN NOTE 2

NOTES:

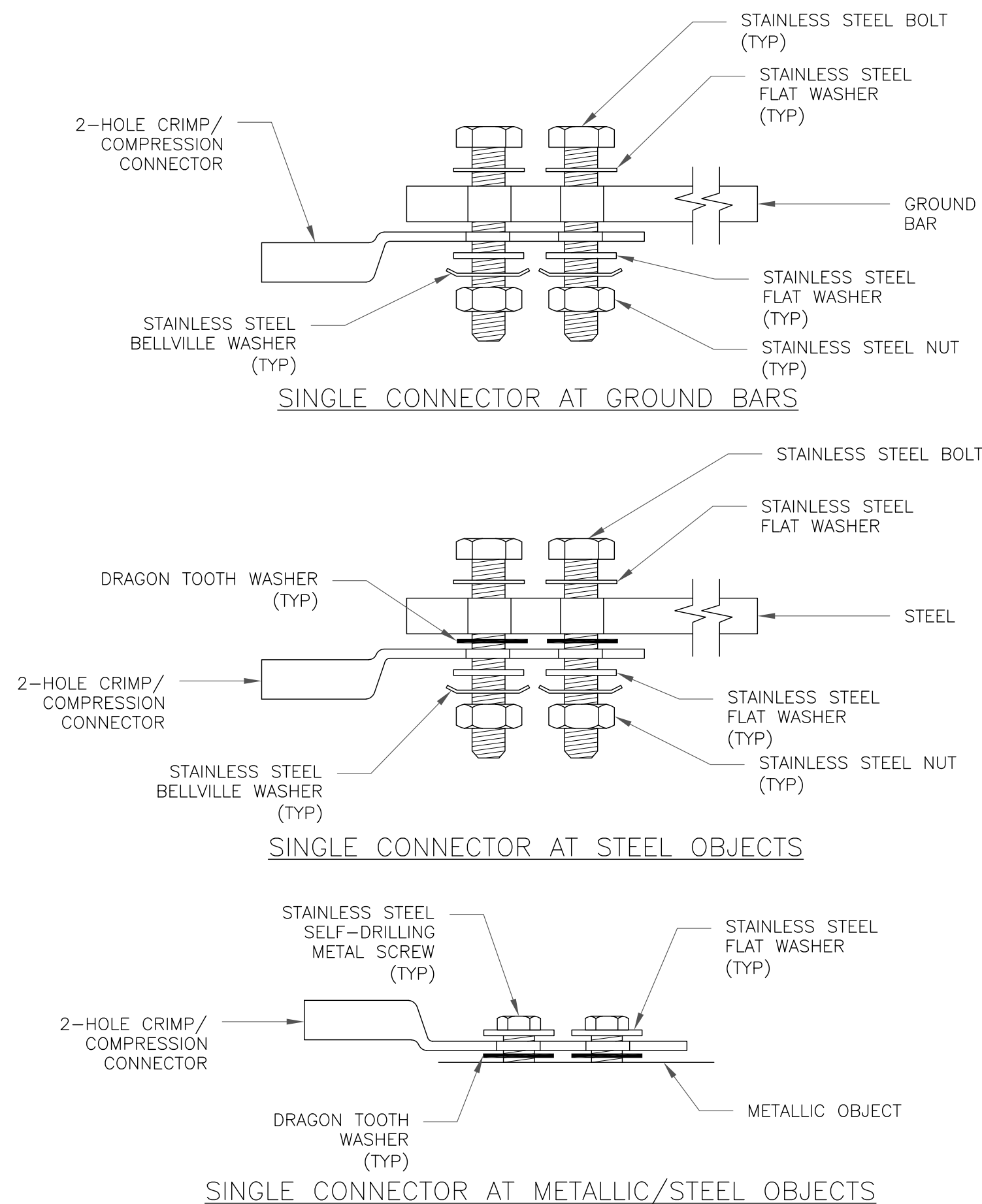
1. GROUND ROD SHALL BE DRIVEN VERTICALLY, NOT TO EXCEED 45 DEGREES FROM THE VERTICAL.
2. GROUND WIRE SHALL BE MIN. 30" BELOW GRADE OR 6" BELOW FROST LINE. (WHICH EVER IS GREATER) AS PER N.E.C. ARTICLE 250-50(D).

3 INSPECTION WELL DETAIL
SCALE: NOT TO SCALE

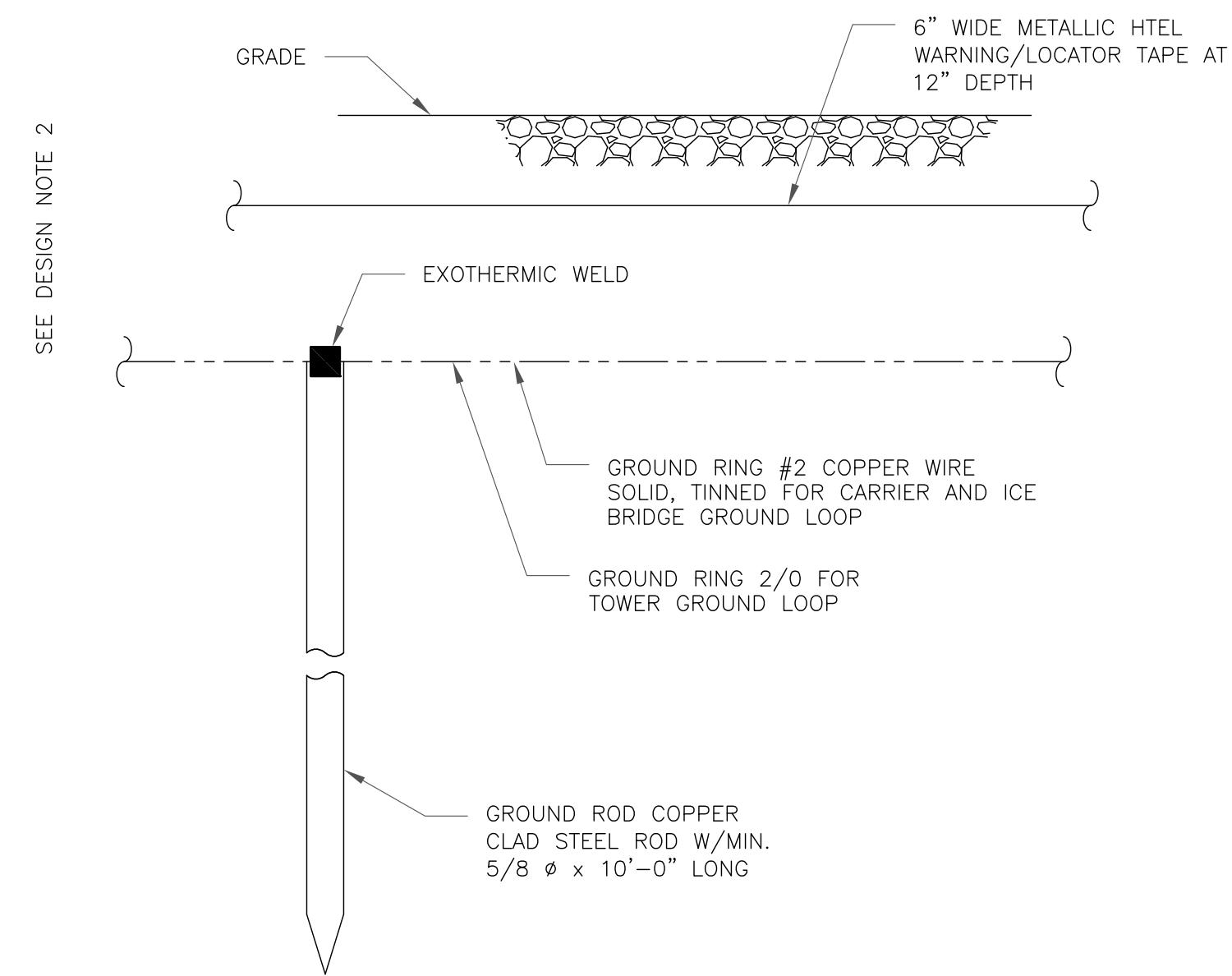


- NOTES:
1. NUMBER OF GROUNDING BARS MAY VARY DEPENDING ON THE TYPE OF TOWER, ANTENNA LOCATIONS AND CONNECTION ORIENTATION. COAXIAL CABLES EXCEEDING 200 FEET ON THE TOWER SHALL HAVE GROUND KITS AT THE MIDPOINT. PROVIDE AS REQUIRED.
 2. ONLY MECHANICAL CONNECTIONS ARE ALLOWED TO BE MADE TO CROWN CASTLE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

4 TYPICAL ANTENNA CABLE GROUNDING
SCALE: NOT TO SCALE



5 HARDWARE DETAIL FOR EXTERIOR CONNECTIONS
SCALE: NOT TO SCALE



SEE DESIGN NOTE 2

NOTES:

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

6 GROUND ROD DETAIL
SCALE: NOT TO SCALE

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BU #: 806369
HRT 094 943225

439 HOMESTEAD AVE
HARTFORD, CT 06105

EXISTING
140'-0" MONOPOLE

ISSUED FOR:

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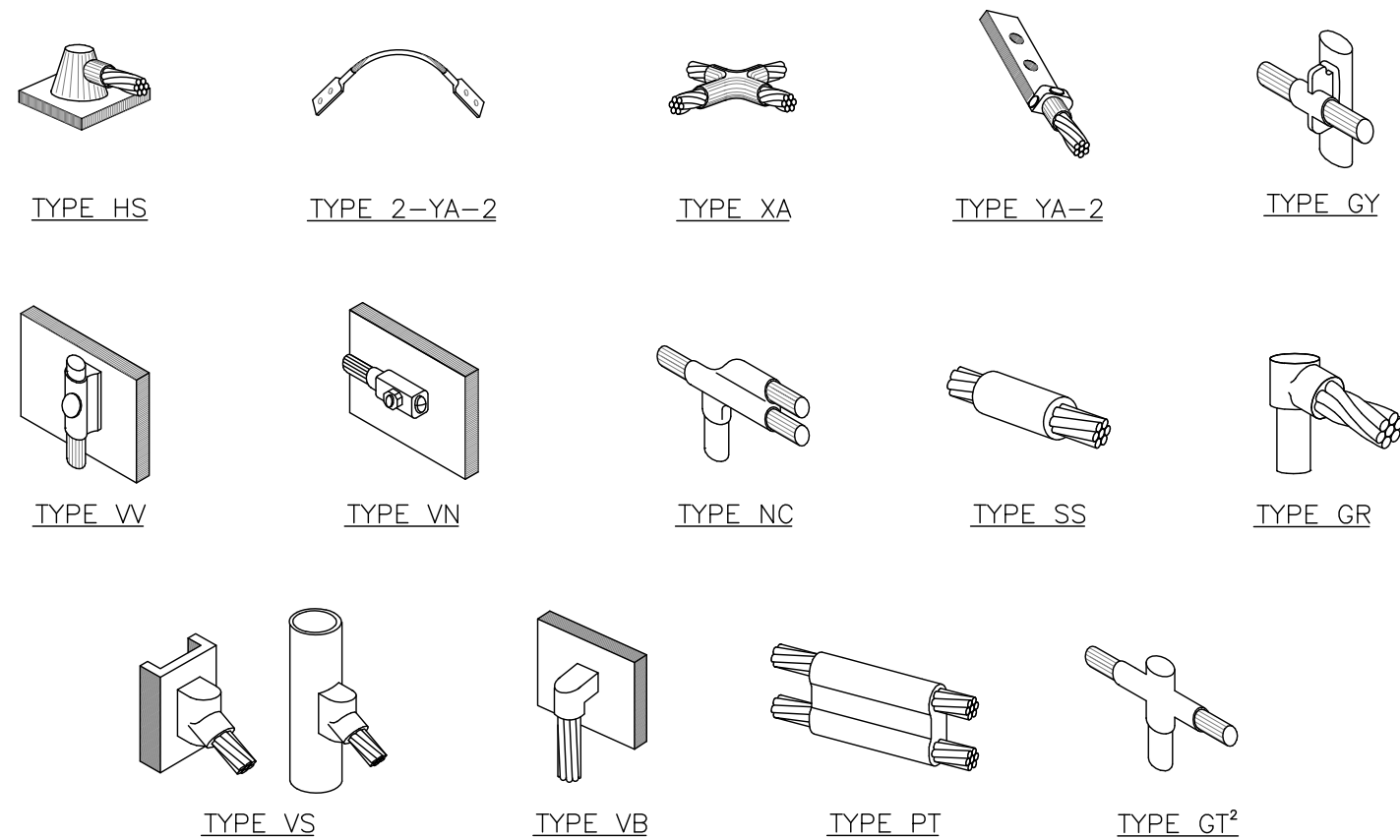
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SHEET NUMBER:

G-2

REVISION:

1

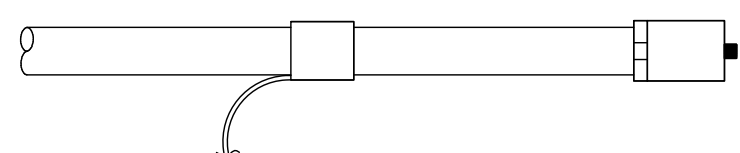


NOTE:

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

1 CADWELD GROUNDING CONNECTIONS
SCALE: NOT TO SCALE

WEATHERPROOFING KIT (SEE NOTE 3)
ANTENNA CABLE



#6 AWG STRANDED COPPER GROUND WIRE (GROUNDED TO GROUND BAR). SEE NOTE 1 & 2

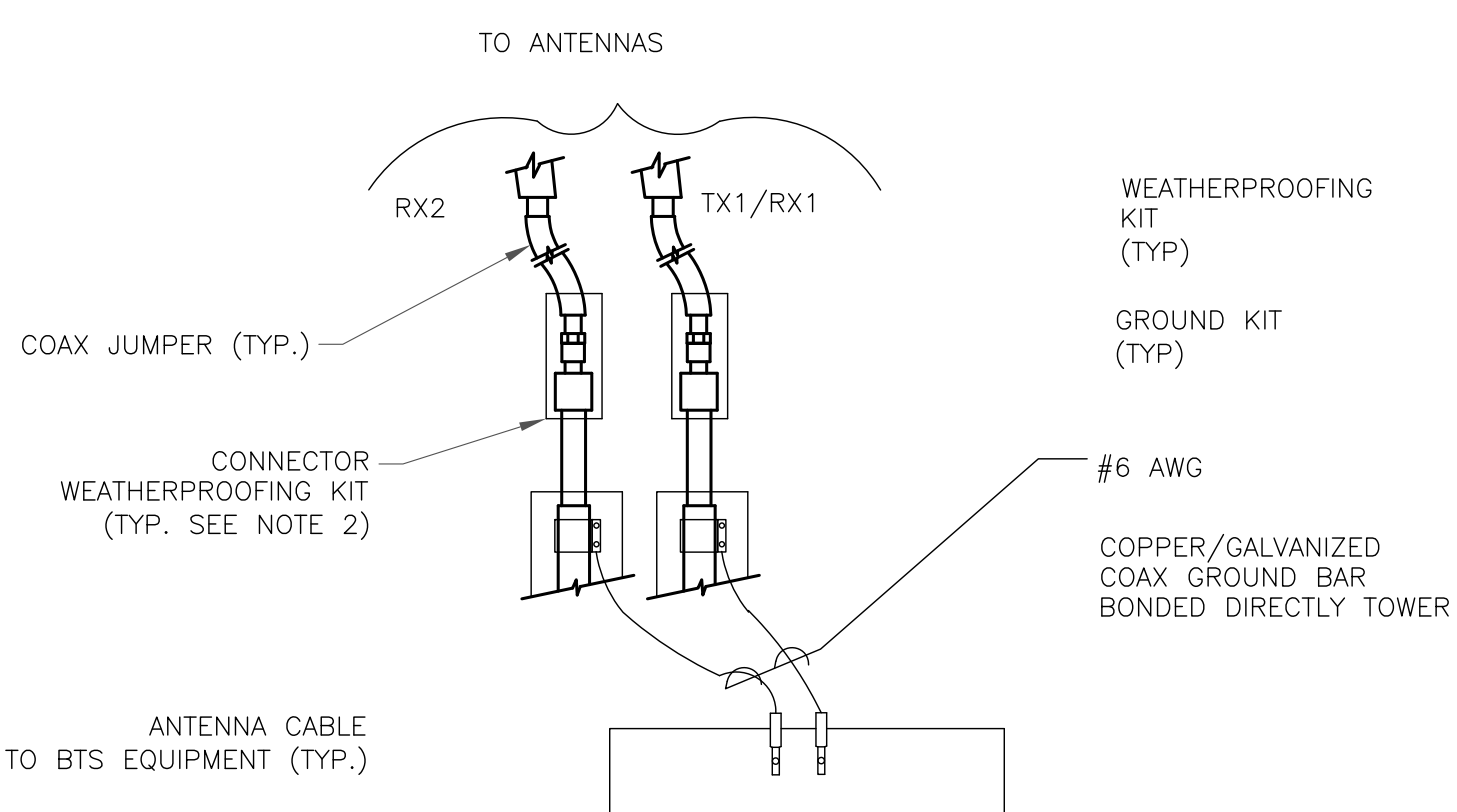
CABLE GROUND KIT

CABLE CONNECTOR

NOTES:

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

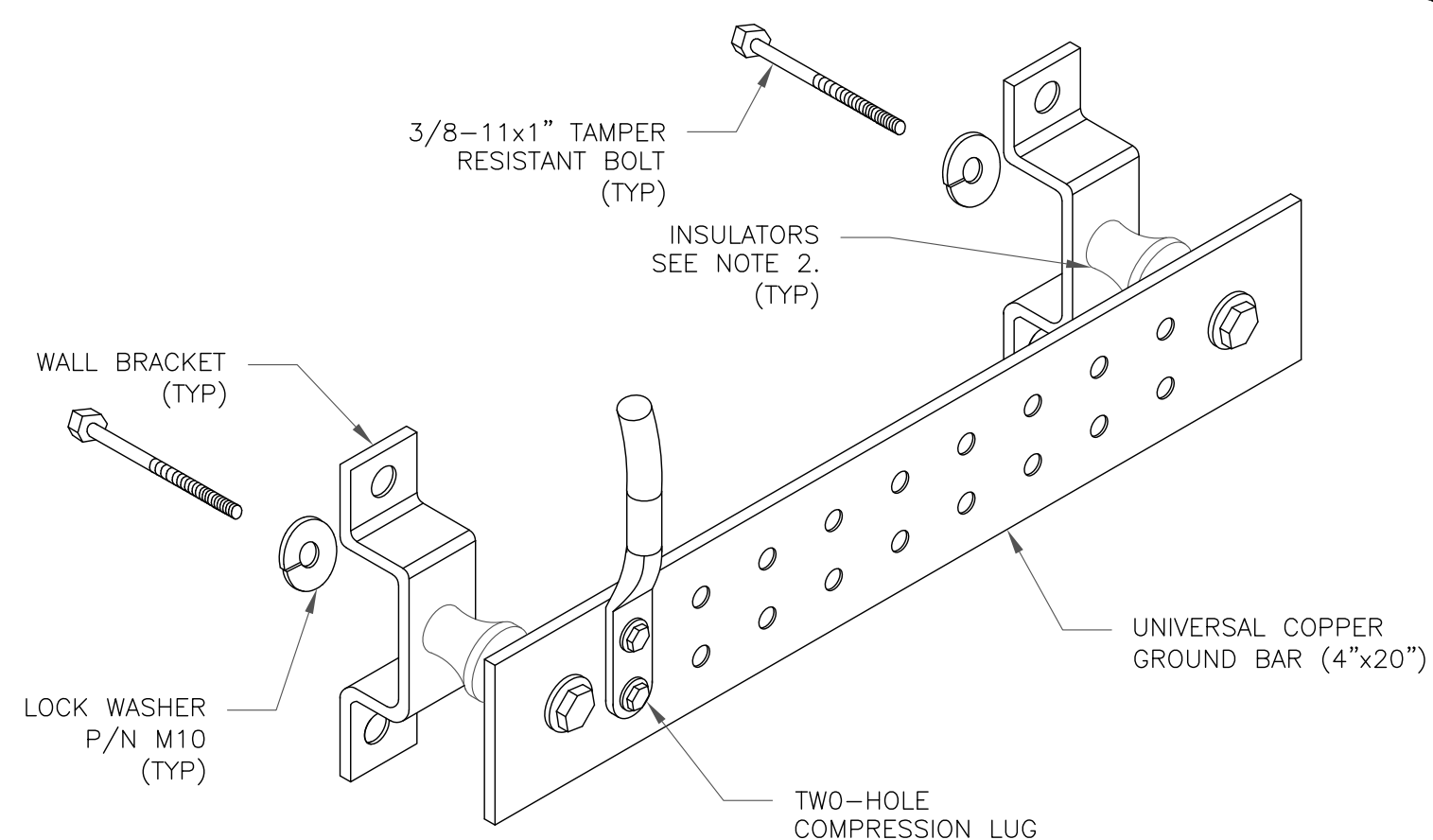
3 CABLE GROUND KIT CONNECTION
SCALE: NOT TO SCALE



NOTES:

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

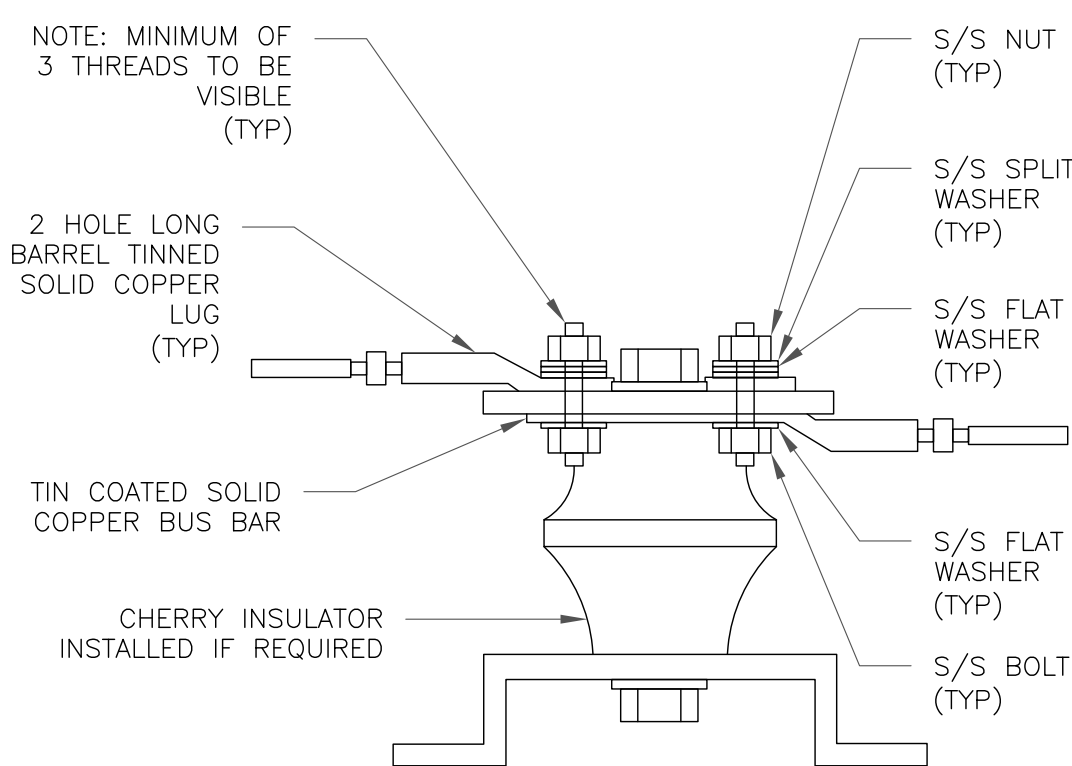
4 GROUND CABLE CONNECTION
SCALE: NOT TO SCALE



NOTES:

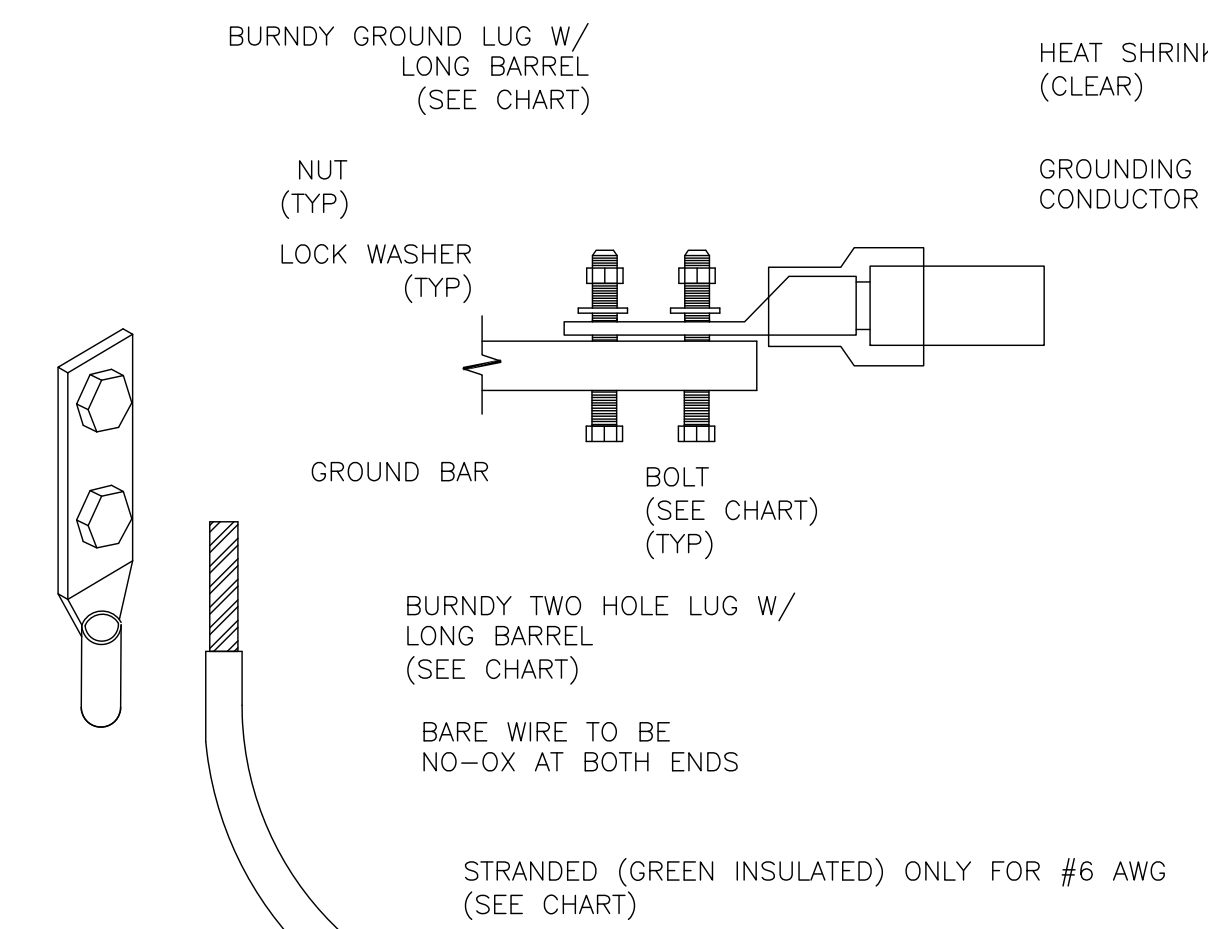
1. DOWN LEAD (HOME RUN) CONDUCTORS ARE NOT TO BE INSTALLED ON CROWN CASTLE USA INC. TOWER, PER THE GROUNDING DOWN CONDUCTOR POLICY QAS-STD-10091. NO MODIFICATION OR DRILLING TO TOWER STEEL IS ALLOWED IN ANY FORM OR FASHION, CAD-WELDING ON THE TOWER AND/OR IN THE AIR ARE NOT PERMITTED.
2. OMIT INSULATOR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

6 GROUND BAR DETAIL
SCALE: NOT TO SCALE



7 LUG DETAIL
SCALE: NOT TO SCALE

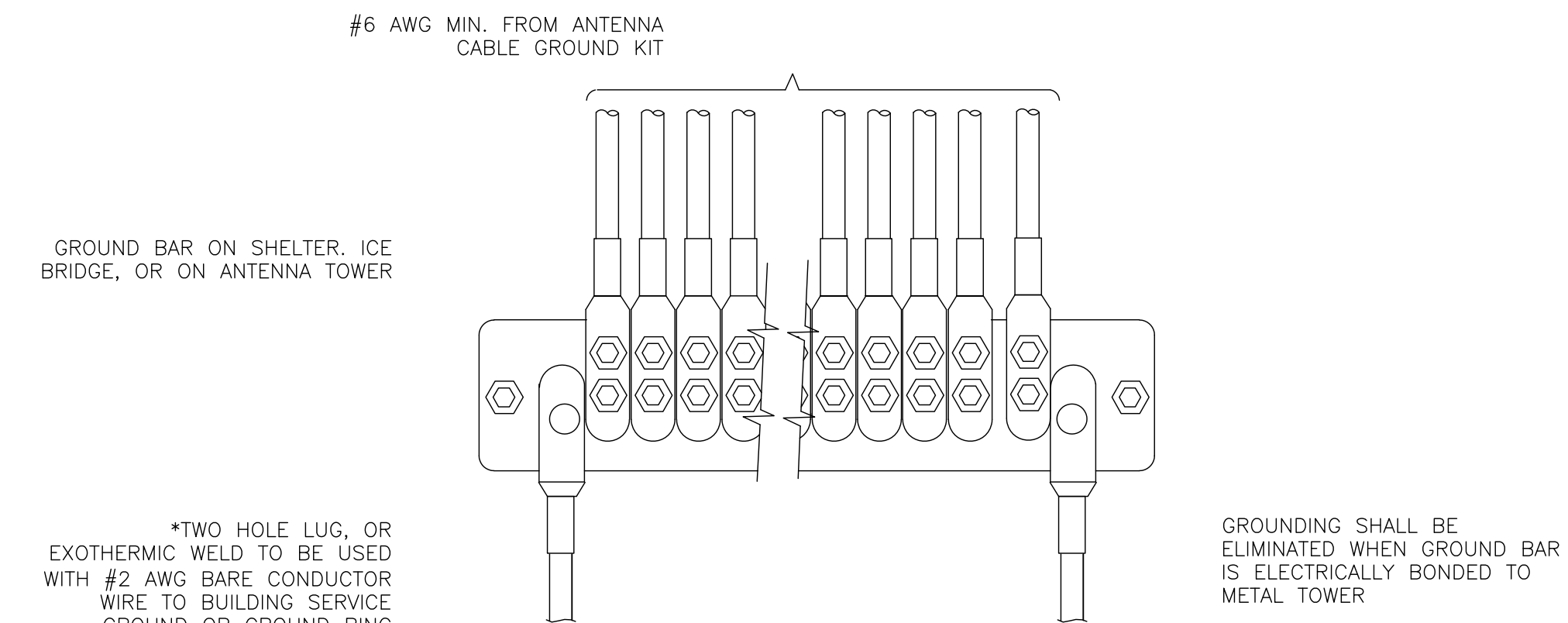
WIRE SIZE	BURNDY LUG	BOLT SIZE
#6 AWG GREEN INSULATED	YA6C-2TC38	3/8" - 16 NC S 2 BOLT
#2 AWG SOLID TINNED	YA3C-2TC38	3/8" - 16 NC S 2 BOLT
#2 AWG STRANDED	YA2C-2TC38	3/8" - 16 NC S 2 BOLT
#2/0 AWG STRANDED	YA26-2TC38	3/8" - 16 NC S 2 BOLT
#4/0 AWG STRANDED	YA28-2N	1/2" - 16 NC S 2 BOLT



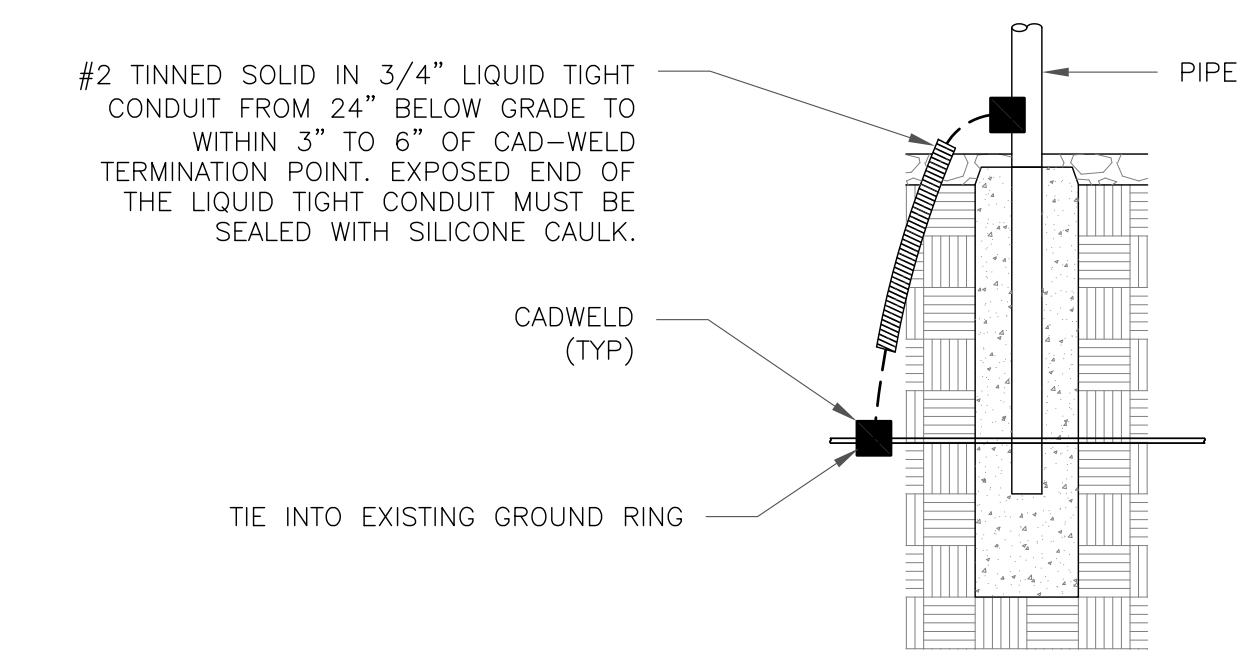
NOTES:

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

2 MECHANICAL LUG CONNECTION
SCALE: NOT TO SCALE



5 GROUNDWIRE INSTALLATION
SCALE: NOT TO SCALE



8 TRANSITIONING GROUND DETAIL
SCALE: NOT TO SCALE

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SITE NUMBER: **CT11161D**

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439 HOMESTEAD AVE
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EXISTING
140'-0" MONOPOLE

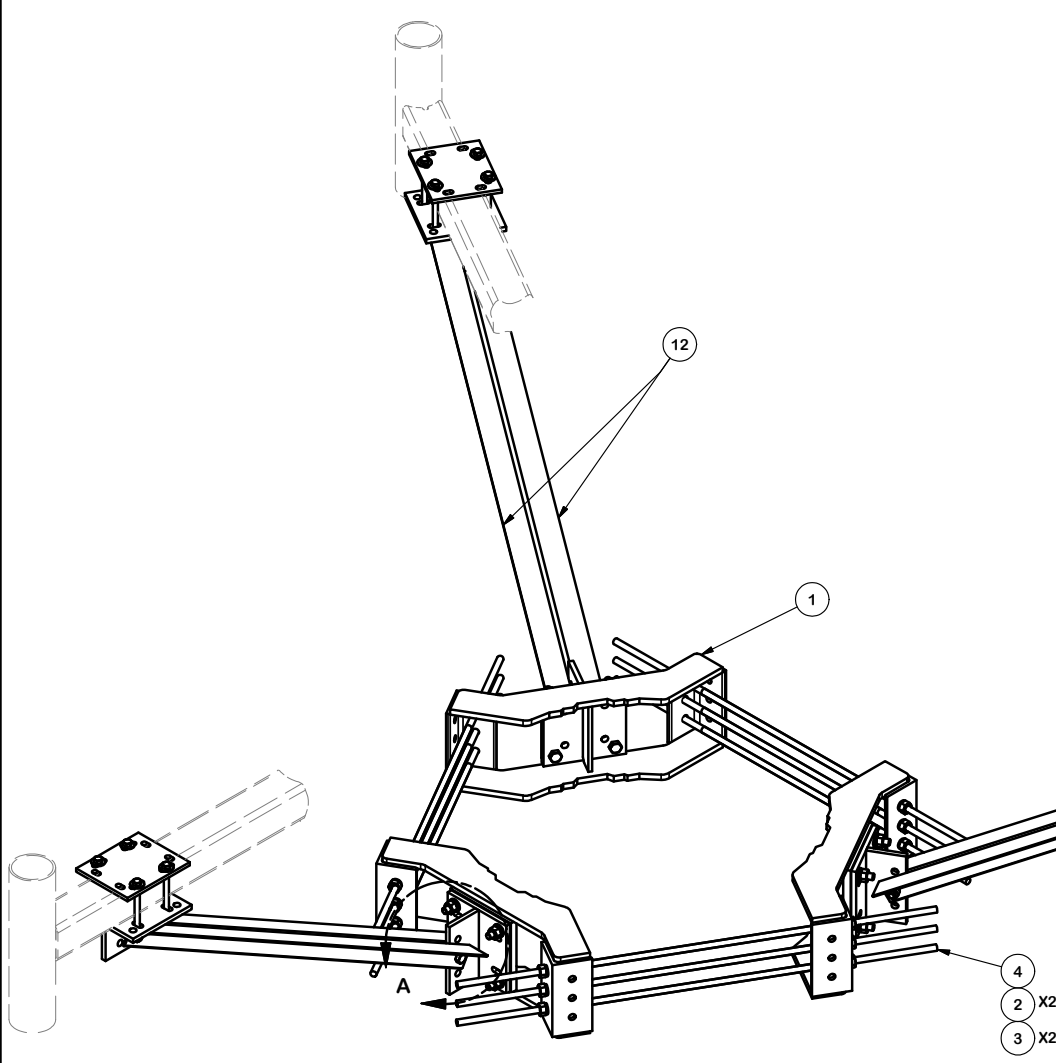
ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	07/20/20	DLS	PRELIMINARY	RMC
0	8/11/20	DLS	CONSTRUCTION	RMC
1	8/20/20	MLC	CONSTRUCTION	MTJ

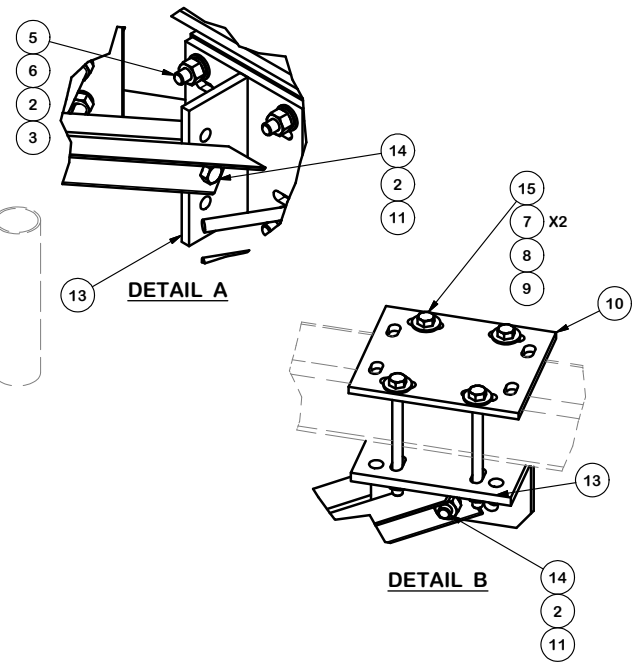
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SHEET NUMBER: G-3 **REVISION: 1**

89233_HTR_094_943225_Prelim.dwg - Sheet:G-3 - User: rcarson - Aug 20, 2020 - 11:10am



PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	3	X-LWRM	RING MOUNT WELDMENT		68.81	206.42
2	36	G58LW	5/8" HDG LOCKWASHER		0.03	0.94
3	30	A58NUT	5/8" HDG A325 HEX NUT		0.13	3.90
4	9	G58R-24	5/8" x 24" THREADED ROD (HDG.)		0.55	4.94
4	9	G58R-48	5/8" x 48" THREADED ROD (HDG.)		0.55	4.94
5	12	A58234	5/8" x 2-3/4" HDG A325 HEX BOLT	2 3/4 in	0.36	4.27
6	12	A58FW	5/8" HDG A325 FLATWASHER		0.03	0.41
7	24	G12FW	1/2" HDG USS FLATWASHER		0.03	0.82
8	12	G12LW	1/2" HDG LOCKWASHER		0.01	0.17
9	12	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	0.86
10	3	SCX4	CROSSOVER PLATE	8 1/2 in	6.02	18.06
11	6	G58NUT	5/8" HDG HEAVY 2H HEX NUT		0.13	0.78
12	6	X-253993	PLATFORM REINFORCEMENT KIT ANGLE	52 25/32 in	14.33	85.99
13	6	X-253992	T-BRACKET FOR REINFORCEMENT KIT		13.55	81.27
14	6	G5802	5/8" x 2" HDG HEX BOLT GR5		0.27	1.62
15	12	G12065	1/2" x 6-1/2" HDG HEX BOLT GR5 FULL THREAD	6 1/2 in	0.41	4.91
TOTAL WT. #						464.91

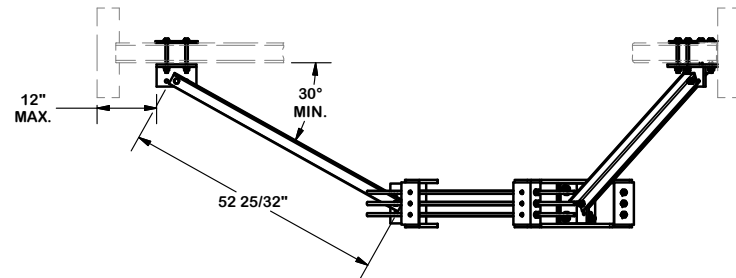
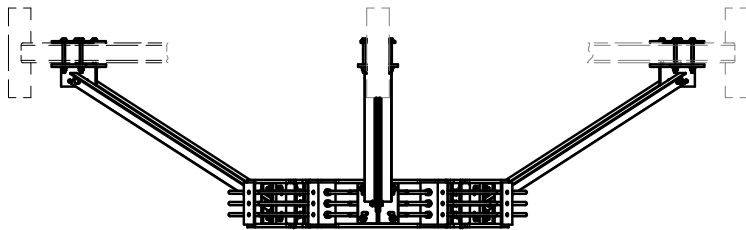
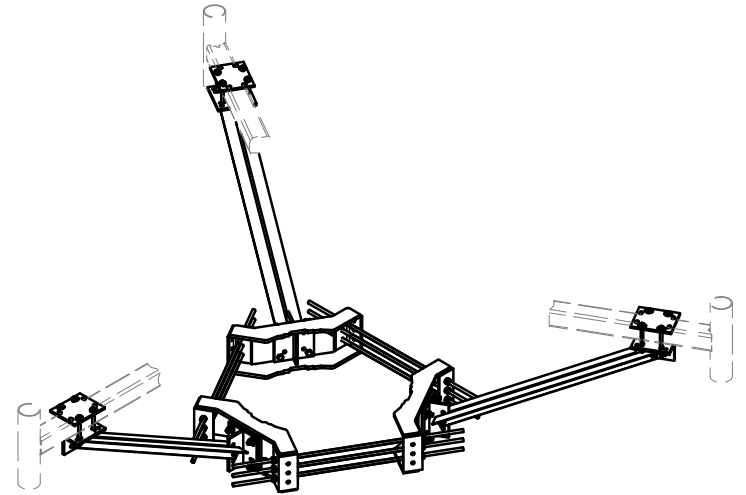
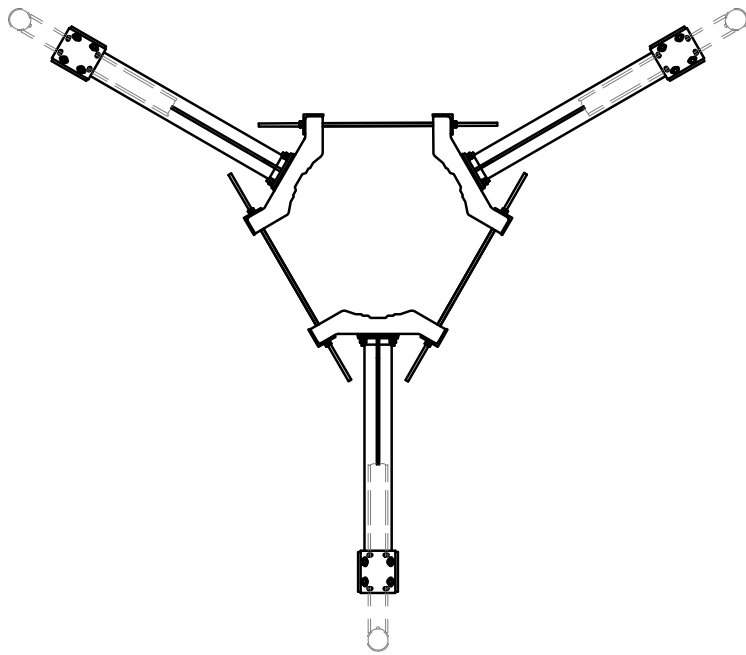


TOLERANCE NOTES
 TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:
 SAWED, SHEARED AND GAS CUT EDGES ($\pm 0.030"$)
 DRILLED AND GAS CUT HOLES ($\pm 0.030"$) - NO CONING OF HOLES
 LASER CUT EDGES AND HOLES ($\pm 0.010"$) - NO CONING OF HOLES
 BENDS ARE $\pm 1/2$ DEGREE
 ALL OTHER MACHINING ($\pm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

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

DESCRIPTION		PLATFORM REINFORCEMENT ON A 12" TO 45" POLE 4' 6" ANGLE	
CPD NO.	DRAWN BY	ENG. APPROVAL	
4488	CEK 4/10/2014		
CLASS	SUB	DRAWING USAGE	CHECKED BY
81	01	CUSTOMER	BMC 4/10/2014

 A valmont COMPANY	Locations: New York, NY Atlanta, GA Los Angeles, CA Plymouth, IN Salem, OR Dallas, TX
	Engineering Support Team: 1-888-753-7446
PART NO.	PRK-1245
DWG. NO.	PRK-1245



TOLERANCE NOTES

TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:
 SAWED, SHEARED AND GAS CUT EDGES ($\pm 0.030"$)
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DESCRIPTION

PLATFORM REINFORCEMENT
 ON A 12" TO 45" POLE
 4' 6" ANGLE



Engineering Support Team:
 1-888-753-7446

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

CPD NO. 4488	DRAWN BY CEK 4/10/2014	ENG. APPROVAL
CLASS 81	SUB 01	DRAWING USAGE CUSTOMER
	CHECKED BY BMC 4/10/2014	

PART NO. PRK-1245	PAGE 2 OF 2
DWG. NO. PRK-1245	

Exhibit D

Structural Analysis Report

Date: **June 24, 2020**

Stephanie Lipscomb
Crown Castle
370 Mallory Station Rd
Franklin, TN 37067

Paul J. Ford & Company
250 East Broad St., Suite 600
Columbus, OH 43215
(614) 221-6679

Subject: Structural Analysis Report

Carrier Designation: T-Mobile Co-Locate
Carrier Site Number: CT11161D
Carrier Site Name: CT161/Jn of Albany_1

Crown Castle Designation: Crown Castle BU Number: 806369
Crown Castle Site Name: HRT 094 943225
Crown Castle JDE Job Number: 613800
Crown Castle Work Order Number: 1859403
Crown Castle Order Number: 523998 Rev. 1

Engineering Firm Designation: Paul J. Ford & Company Project Number: 37520-1171.001.7805

Site Data: 439-455 HOMESTEAD AVE, HARTFORD, Hartford County, CT
Latitude 41° 47' 1.61", Longitude -72° 42' 13.66"
140 Foot - Monopole Tower

Dear Stephanie Lipscomb,

Paul J. Ford & Company 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 – 50.4%

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

Respectfully submitted by:


Jaime Acuna
Structural Designer
jacuna@pauljford.com

RMF

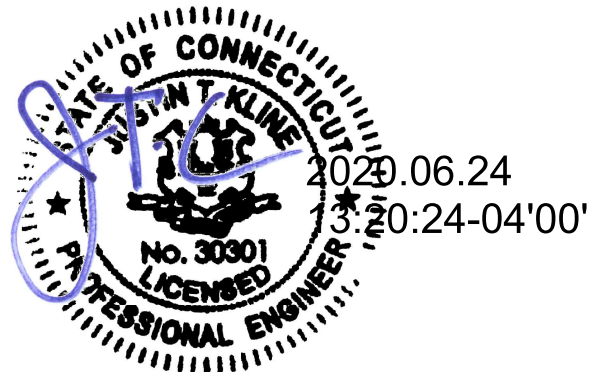


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3.2) Assumptions

4) ANALYSIS RESULTS

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tnxTower Output

6) APPENDIX B

Base Level Drawing

7) APPENDIX C

Additional Calculations

1) INTRODUCTION

This tower is a 140 ft Monopole tower designed by VALMONT in august of 1999. and mapped by TEP in July of 2008.

2) ANALYSIS CRITERIA

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

Table 1 - Proposed Equipment Configuration

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
126.0	128.0	3	ericsson	AIR -32 B2A/B66AA w/ Mount Pipe	3 9	1-3/8 1-5/8
		3	ericsson	AIR6449 B41 w/ Mount Pipe		
		3	ericsson	ERICSSON AIR 21 B2A B4P_T-MOBILE w/ Mount Pipe		
		3	ericsson	RADIO 4449 B71 B85A_T-MOBILE		
		3	ericsson	RRUS 4415 B25_CCIV2		
	3	rfs celwave	APXVAARR24_43-U-NA20 w/ Mount Pipe			
	3	rfs celwave	ATMAA1412D-1A20			
126.0		1	tower mounts	Platform Mount [LP 713-1_W/ Sitepro PRK-1245]		

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)
140.0	140.0	3	alcatel lucent	RRH2X40-AWS	13	1-5/8
		3	amphenol	BXA-80063-4BF-EDIN-X w/ Mount Pipe		
		3	antel	BXA-171063-8BF-EDIN-2 w/ Mount Pipe		
		3	antel	BXA-171063/8CF-EDIN-2 w/ Mount Pipe		
		3	css	X7C-FRO-660-V w/ Mount Pipe		
		1	raycap	RRFDC-3315-PF-48		
		6	rfs celwave	FD9R6004/2C-3L		
		1	tower mounts	Platform Mount [LP 713-1]		
		3	tower mounts	Side Arm Mount [SO 203-1]		
117.0	120.0	2	cci antennas	DMP65R-BU6D w/ Mount Pipe	4 12 2 2 1	3/4 1-5/8 3/8 7/8 2.25" Conduit
		1	cci antennas	DMP65R-BU8D w/ Mount Pipe		
		1	cci antennas	TPA-65R-LCUUUU-H8 w/ Mount Pipe		
		3	ericsson	RRUS 32 B30		
		3	ericsson	RRUS 4449 B5/B12		
		3	ericsson	RRUS 8843 B2/B66A_CCIV2		
		3	powerwave technologies	7770.00 w/ Mount Pipe		
		6	powerwave technologies	LGP21401		
		2	quintel technology	QS66512-3 w/ Mount Pipe		
		1	raycap	DC6-48-60-0-8C-EV		
		2	raycap	DC6-48-60-18-8F		
		117.0	1	tower mounts		
104.0	104.0	3	alcatel lucent	800MHz 2X50W RRH W/FILTER	-	-
		3	alcatel lucent	PCS 1900MHz 4x45W-65MHz		
		1	tower mounts	Pipe Mount [PM 602-3]		
		2	tower mounts	Side Arm Mount [SO 104-3]		

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
103.0	107.0	1	andrew	VHLP2-180	3	2.25" Conduit
		1	andrew	VHLP2.5-11		
		2	dragonwave	HORIZON COMPACT		
	105.0	3	argus technologies	LLPX310R-V1 w/ Mount Pipe		
		3	nokia	AAHC w/ Mount Pipe		
		3	rfs celwave	APXVSP18-C-A20 w/ Mount Pipe		
		3	rfs celwave	IBC1900BB-1		
		3	rfs celwave	IBC1900HG-2A		
		3	samsung telecommunications	WIMAX DAP HEAD		
	103.0	1	tower mounts	Platform Mount [LP 713-1]		
93.0	93.0	3	kathrein	742 213 w/ Mount Pipe	6	1-5/8
		1	tower mounts	Pipe Mount [PM 602-3]		
		1	tower mounts	Side Arm Mount [SO 104-3]		
74.0	80.0	1	antel	BCD-87010	1	7/8
	74.0	1	tower mounts	Side Arm Mount [SO 701-1]		
50.0	52.0	1	lucent	KS24019-L112A	1	7/8
	50.0	1	tower mounts	Side Arm Mount [SO 701-1]		

3) ANALYSIS PROCEDURE

Table 3 - Documents Provided

Document	Remarks	Reference	Source
4-GEOTECHNICAL REPORTS	TEP, 081972.03, 08/4/2008	2294838	CCISITES
4-TOWER FOUNDATION DRAWINGS/DESIGN/SPECS	TEP, 081972, 07/28/2008 (Mapped)	2294380	CCISITES
4-TOWER MANUFACTURER DRAWINGS	TEP, 081972, 07/28/2008 (Mapped)	2294379	CCISITES
4-STRUCTURAL ANALYSIS	Valmont, 18915-69, 08/20/1999	823121	CCISITES

3.1) Analysis Method

tnxTower (version 8.0.5.0), a commercially available analysis software package, was used to create a three-dimensional model of the tower and calculate member stresses for various loading cases. Selected output from the analysis is included in Appendix A. When applicable, Crown Castle has calculated and provided the effective area for panel antennas using approved methods following the intent of the TIA-222 Standard.

3.2) Assumptions

- 1) Tower and structures were maintained in accordance with the TIA-222 Standard.
- 2) The configuration of antennas, transmission cables, mounts and other appurtenances are as specified in Tables 1 and 2 and the referenced drawings.
- 3) At the time of analysis the reference document #823121 provided the pole geometry information.
- 4) The Base Plate drawings were not available at the time of this analysis. Therefore, we have assumed the material yield strengths (F'c and Fy) as per the following:
 - a. Anchor rods: ASTM A615 (Fu = 100 ksi, Fy = 75 ksi),
 - b. Base Plate: ASTM A572 Gr 60
- 5) The foundation drawings were not available at the time of this analysis. Therefore, we have assumed the material yield strengths (F'c and Fy) as per the following:
 - a. Concrete F'c: 3000 PSI
 - b. Foundation Reinforcing Fy: ASTM A615 Gr 60

This analysis may be affected if any assumptions are not valid or have been made in error. Paul J. Ford & Company 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	140 - 86.83	Pole	TP39.223x26.216x0.3125	1	-23.81	2319.28	38.2	Pass
L2	86.83 - 38	Pole	TP50.56x37.2109x0.4063	2	-39.16	3892.16	50.4	Pass
L3	38 - 0	Pole	TP59.05x48.0329x0.5	3	-60.30	5790.26	48.8	Pass
							Summary	
						Pole (L2)	50.4	Pass
						RATING =	50.4	Pass

Table 5 - Tower Component Stresses vs. Capacity - LC7

Notes	Component	Elevation (ft)	% Capacity	Pass / Fail
1	Anchor Rods	0	49.8	Pass
1	Base Plate	0	17.1	Pass
1	Base Foundation Structural steel	0	33.4	Pass
1	Base Foundation Soil Interaction	0	42.1	Pass

Structure Rating (max from all components) =	50.4%
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Notes:

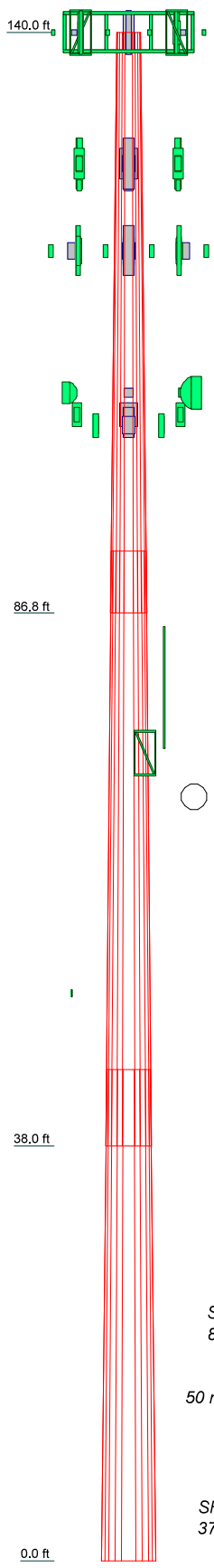
- All structural ratings are per TIA-222-H Section 15.5
- 1) See additional documentation in "Appendix C – Additional Calculations" for calculations supporting the % capacity consumed.

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	
Length (ft)	53.17	54.50	45.00	
Number of Sides	12	12	12	
Thickness (in)	0.3125	0.4063	0.5000	
Socket Length (ft)	5.67	7.00		
Top Dia (in)	26.2160	37.2109	48.0329	
Bot Dia (in)	39.2230	50.5600	59.0500	
Grade		A572-65		
Weight (K)	5.9	10.5	13.1	29.5

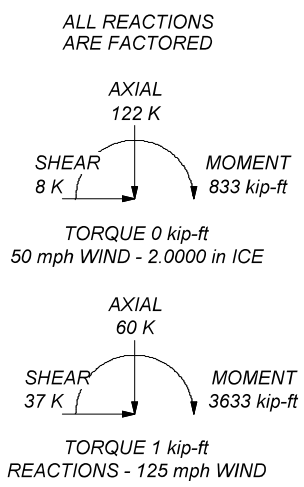



MATERIAL STRENGTH

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

TOWER DESIGN NOTES

1. Tower is located in Hartford County, Connecticut.
2. Tower designed for Exposure B to the TIA-222-H Standard.
3. Tower designed for a 125 mph basic wind in accordance with the TIA-222-H Standard.
4. Tower is also designed for a 50 mph basic wind with 2.00 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60 mph wind.
6. Tower Risk Category II.
7. Topographic Category 1 with Crest Height of 0.00 ft
8. TIA-222-H Annex S
9. TOWER RATING: 50.4%



 Paul J. Ford & Company 250 East Broad st., Suite 600 Columbus, OH 43215 Phone: (614) 221-6679 FAX:	Job: 140 Ft / HRT 094 943225 / HARTFORD, NY		
	Project: PJF# 37520-1171.001.7805 / BU# 806369		
Client: CCI	Drawn by: jacuna	App'd:	
Code: TIA-222-H	Date: 06/23/20	Scale: NTS	
Path:	Dwg No. E-1		

Tower Input Data

The tower is a monopole.

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

The following design criteria apply:

- 1) Tower is located in Hartford County, Connecticut.
- 2) Tower base elevation above sea level: 60.06 ft.
- 3) Basic wind speed of 125 mph.
- 4) Risk Category II.
- 5) Exposure Category B.
- 6) Simplified Topographic Factor Procedure for wind speed-up calculations is used.
- 7) Topographic Category: 1.
- 8) Crest Height: 0.00 ft.
- 9) Nominal ice thickness of 2.0000 in.
- 10) Ice thickness is considered to increase with height.
- 11) Ice density of 56 pcf.
- 12) A wind speed of 50 mph is used in combination with ice.
- 13) Temperature drop of 50 °F.
- 14) Deflections calculated using a wind speed of 60 mph.
- 15) A non-linear (P-delta) analysis was used.
- 16) Pressures are calculated at each section.
- 17) Stress ratio used in pole design is 1.05.
- 18) Tower analysis based on target reliabilities in accordance with Annex S.
- 19) Load Modification Factors used: $K_{es}(F_w) = 0.95$, $K_{es}(t_i) = 0.85$.
- 20) 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	140.00-86.83	53.17	5.67	12	26.2160	39.2230	0.3125	1.2500	A572-65 (65 ksi)
L2	86.83-38.00	54.50	7.00	12	37.2109	50.5600	0.4063	1.6250	A572-65 (65 ksi)
L3	38.00-0.00	45.00		12	48.0329	59.0500	0.5000	2.0000	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	27.0306	26.0654	2232.3752	9.2735	13.5799	164.3883	4523.3974	12.8286	6.1884	19.803
	40.4964	39.1537	7566.4519	13.9300	20.3175	372.4103	15331.683	19.2703	9.6743	30.958
L2	39.8181	48.1451	8324.2452	13.1761	19.2753	431.8614	16867.177	23.6956	8.8838	21.868
	52.2003	65.6074	21064.222	17.9550	26.1901	804.2825	42681.825	32.2900	12.4613	30.674
L3	51.3252	76.5280	22069.675	17.0168	24.8811	887.0069	44719.145	37.6648	11.5328	23.066
	60.9567	94.2655	41247.015	20.9609	30.5879	1348.4749	83577.635	46.3946	14.4854	28.971

Tower Elevation ft	Gusset Area (per face) ft ²	Gusset Thickness in	Gusset Grade	Adjust. Factor A _r	Adjust. Factor A _r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontal in	Double Angle Stitch Bolt Spacing Redundants in
L1 140.00-86.83				1	1	1			
L2 86.83-38.00				1	1	1			
L3 38.00-0.00				1	1	1			

Feed Line/Linear Appurtenances - Entered As Round Or Flat

Description	Sector	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	Number Per Row	Start/End Position	Width or Diameter r in	Perimeter r in	Weight plf
LDF7-50A(1-5/8)	B	No	Surface Ar (CaAa)	140.00 - 0.00	6	6	-0.500 -0.325	1.9800		0.82
HCS 6X12 6AWG(1-3/8)	C	No	Surface Ar (CaAa)	126.00 - 0.00	1	1	0.275 0.275	1.3800		1.70
LCF158-50JA(1-5/8)	C	No	Surface Ar (CaAa)	126.00 - 0.00	5	5	0.292 0.433	2.0100		0.92
HCS 6X12 4AWG(1-5/8)	A	No	Surface Ar (CaAa)	126.00 - 0.00	1	1	0.350 0.350	1.6600		2.40
2-1/4" (Nominal) Conduit	C	No	Surface Ar (CaAa)	117.00 - 0.00	1	1	0.408 0.408	2.5000		0.72
MLC6C-06C-008R-008R(1-1/2)	A	No	Surface Ar (CaAa)	103.00 - 0.00	1	1	-0.217 -0.217	1.4800		1.52
HB114-1-08U4-M5J(1-1/4)	A	No	Surface Ar (CaAa)	103.00 - 0.00	3	2	-0.458 -0.408	1.5400		1.08
2-1/4" (Nominal) Conduit	A	No	Surface Ar (CaAa)	103.00 - 0.00	2	2	-0.300 -0.233	2.5000		0.72

LDF5-50A(7/8)	B	No	Surface Ar (CaAa)	74.00 - 0.00	1	1	-0.258 -0.258	1.0300		0.33

LDF5-50A(7/8)	B	No	Surface Ar (CaAa)	50.00 - 0.00	1	1	-0.283 -0.283	1.0300		0.33

Feed Line/Linear Appurtenances - Entered As Area

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	C _A A _A ft ² /ft	Weight plf
LDF7-50A(1-5/8)	C	No	No	Inside Pole	140.00 - 0.00	6	No Ice	0.82
							1/2" Ice	0.82
							1" Ice	0.82
							2" Ice	0.82

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		C _A A _A ft ² /ft	Weight plf
HB158-1-08U8-S8J18(1-5/8)	C	No	No	Inside Pole	140.00 - 0.00	1	No Ice	0.00	1.30
							1/2" Ice	0.00	1.30
							1" Ice	0.00	1.30
							2" Ice	0.00	1.30

HCS 6X12 6AWG(1-3/8)	C	No	No	Inside Pole	126.00 - 0.00	2	No Ice	0.00	1.70
							1/2" Ice	0.00	1.70
							1" Ice	0.00	1.70
							2" Ice	0.00	1.70
LCF158-50JA(1-5/8)	C	No	No	Inside Pole	126.00 - 0.00	1	No Ice	0.00	0.92
							1/2" Ice	0.00	0.92
							1" Ice	0.00	0.92
							2" Ice	0.00	0.92
HCS 6X12 4AWG(1-5/8)	C	No	No	Inside Pole	126.00 - 0.00	2	No Ice	0.00	2.40
							1/2" Ice	0.00	2.40
							1" Ice	0.00	2.40
							2" Ice	0.00	2.40

WR-VG86ST-BRD(3/4)	C	No	No	Inside Pole	117.00 - 0.00	4	No Ice	0.00	0.58
							1/2" Ice	0.00	0.58
							1" Ice	0.00	0.58
							2" Ice	0.00	0.58
LDF7-50A(1-5/8)	C	No	No	Inside Pole	117.00 - 0.00	12	No Ice	0.00	0.82
							1/2" Ice	0.00	0.82
							1" Ice	0.00	0.82
							2" Ice	0.00	0.82
FB-L98B-034-XXX(3/8)	C	No	No	Inside Pole	117.00 - 0.00	1	No Ice	0.00	0.06
							1/2" Ice	0.00	0.06
							1" Ice	0.00	0.06
							2" Ice	0.00	0.06
FB-L98B-034-XXXXXX(3/8)	C	No	No	Inside Pole	117.00 - 0.00	1	No Ice	0.00	0.05
							1/2" Ice	0.00	0.05
							1" Ice	0.00	0.05
							2" Ice	0.00	0.05
WR-VG66ST-BRD_CCIV2(7/8)	C	No	No	Inside Pole	117.00 - 0.00	2	No Ice	0.00	0.88
							1/2" Ice	0.00	0.88
							1" Ice	0.00	0.88
							2" Ice	0.00	0.88

LDF1-50A(1/4)	C	No	No	Inside Pole	103.00 - 0.00	3	No Ice	0.00	0.06
							1/2" Ice	0.00	0.06
							1" Ice	0.00	0.06
							2" Ice	0.00	0.06
ATCB-B01-005(5/16)	C	No	No	Inside Pole	103.00 - 0.00	3	No Ice	0.00	0.07
							1/2" Ice	0.00	0.07
							1" Ice	0.00	0.07
							2" Ice	0.00	0.07
FSJ4-50B(1/2)	C	No	No	Inside Pole	103.00 - 0.00	3	No Ice	0.00	0.14
							1/2" Ice	0.00	0.14
							1" Ice	0.00	0.14
							2" Ice	0.00	0.14

AVA7-50(1-5/8)	C	No	No	Inside Pole	93.00 - 0.00	6	No Ice	0.00	0.70
							1/2" Ice	0.00	0.70
							1" Ice	0.00	0.70
							2" Ice	0.00	0.70

Feed Line/Linear Appurtenances Section Areas

Tower Section n	Tower Elevation ft	Face	A _R ft ²	A _F ft ²	C _A A _A In Face ft ²	C _A A _A Out Face ft ²	Weight K
L1	140.00-86.83	A	0.000	0.000	21.961	0.000	0.19

Tower Sectio n	Tower Elevation ft	Face	A _R ft ²	A _F ft ²	C _A A _A In Face ft ²	C _A A _A Out Face ft ²	Weight K
L2	86.83-38.00	B	0.000	0.000	63.166	0.000	0.26
		C	0.000	0.000	52.314	0.000	1.42
		A	0.000	0.000	54.787	0.000	0.42
L3	38.00-0.00	B	0.000	0.000	62.954	0.000	0.26
		C	0.000	0.000	68.020	0.000	2.02
		A	0.000	0.000	42.636	0.000	0.33
		B	0.000	0.000	52.972	0.000	0.21
		C	0.000	0.000	52.934	0.000	1.57

Feed Line/Linear Appurtenances Section Areas - With Ice

Tower Sectio n	Tower Elevation ft	Face or Leg	Ice Thickness in	A _R ft ²	A _F ft ²	C _A A _A In Face ft ²	C _A A _A Out Face ft ²	Weight K
L1	140.00-86.83	A	1.921	0.000	0.000	62.022	0.000	1.09
		B		0.000	0.000	104.494	0.000	1.62
		C		0.000	0.000	107.610	0.000	2.92
L2	86.83-38.00	A	1.811	0.000	0.000	149.078	0.000	2.55
		B		0.000	0.000	119.351	0.000	1.84
		C		0.000	0.000	141.264	0.000	4.01
L3	38.00-0.00	A	1.604	0.000	0.000	112.238	0.000	1.85
		B		0.000	0.000	108.982	0.000	1.60
		C		0.000	0.000	107.206	0.000	3.01

Feed Line Center of Pressure

Section	Elevation ft	CP _x in	CP _z in	CP _x Ice in	CP _z Ice in
L1	140.00-86.83	-2.8300	-1.6225	-3.3617	-1.0637
L2	86.83-38.00	-5.1170	-0.8546	-5.7156	-0.6266
L3	38.00-0.00	-5.5333	-1.2494	-5.9550	-1.3461

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	1	LDF7-50A(1-5/8)	86.83 - 140.00	1.0000	1.0000
L1	6	HCS 6X12 6AWG(1-3/8)	86.83 - 126.00	1.0000	1.0000
L1	7	LCF158-50JA(1-5/8)	86.83 - 126.00	1.0000	1.0000
L1	10	HCS 6X12 4AWG(1-5/8)	86.83 - 126.00	1.0000	1.0000
L1	19	2-1/4" (Nominal) Conduit	86.83 - 117.00	1.0000	1.0000
L1	23	MLC6C-06C-008R-008R(1-1/2)	86.83 - 103.00	1.0000	1.0000
L1	24	HB114-1-08U4-M5J(1-1/4)	86.83 - 103.00	1.0000	1.0000
L1	26	2-1/4" (Nominal) Conduit	86.83 - 103.00	1.0000	1.0000
L1	30	LDF5-50A(7/8)	86.83 - 74.00	1.0000	1.0000
L1	32	LDF5-50A(7/8)	86.83 - 50.00	1.0000	1.0000
L2	1	LDF7-50A(1-5/8)	38.00 - 86.83	1.0000	1.0000
L2	6	HCS 6X12 6AWG(1-3/8)	38.00 - 86.83	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
L2	7	LCF158-50JA(1-5/8)	38.00 - 86.83	1.0000	1.0000
L2	10	HCS 6X12 4AWG(1-5/8)	38.00 - 86.83	1.0000	1.0000
L2	19	2-1/4" (Nominal) Conduit	38.00 - 86.83	1.0000	1.0000
L2	23	MLC6C-06C-008R-008R(1-1/2)	38.00 - 86.83	1.0000	1.0000
L2	24	HB114-1-08U4-M5J(1-1/4)	38.00 - 86.83	1.0000	1.0000
L2	26	2-1/4" (Nominal) Conduit	38.00 - 86.83	1.0000	1.0000
L2	30	LDF5-50A(7/8)	38.00 - 74.00	1.0000	1.0000
L2	32	LDF5-50A(7/8)	38.00 - 50.00	1.0000	1.0000

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft	Azimuth Adjustment t °	Placement ft	C _{AA} Front ft ²	C _{AA} Side ft ²	Weight K	
BXA-80063-4BF-EDIN-X w/ Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	140.00	No Ice	4.62	3.47	0.03
						1/2" Ice	4.99	4.04	0.07
						Ice	5.36	4.63	0.12
						1" Ice	6.13	5.83	0.23
						2" Ice			
BXA-80063-4BF-EDIN-X w/ Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	140.00	No Ice	4.62	3.47	0.03
						1/2" Ice	4.99	4.04	0.07
						Ice	5.36	4.63	0.12
						1" Ice	6.13	5.83	0.23
						2" Ice			
BXA-80063-4BF-EDIN-X w/ Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	140.00	No Ice	4.62	3.47	0.03
						1/2" Ice	4.99	4.04	0.07
						Ice	5.36	4.63	0.12
						1" Ice	6.13	5.83	0.23
						2" Ice			
BXA-171063/8CF-EDIN-2 w/ Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	140.00	No Ice	3.14	3.51	0.03
						1/2" Ice	3.52	4.13	0.06
						Ice	3.89	4.76	0.10
						1" Ice	4.65	6.06	0.20
						2" Ice			
BXA-171063/8CF-EDIN-2 w/ Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	140.00	No Ice	3.14	3.51	0.03
						1/2" Ice	3.52	4.13	0.06
						Ice	3.89	4.76	0.10
						1" Ice	4.65	6.06	0.20
						2" Ice			
BXA-171063/8CF-EDIN-2 w/ Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	140.00	No Ice	3.14	3.51	0.03
						1/2" Ice	3.52	4.13	0.06
						Ice	3.89	4.76	0.10
						1" Ice	4.65	6.06	0.20
						2" Ice			
X7C-FRO-660-V w/ Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	140.00	No Ice	8.88	6.44	0.07
						1/2" Ice	9.60	7.13	0.15
						Ice	10.34	7.83	0.23
						1" Ice	11.87	9.29	0.43
						2" Ice			
X7C-FRO-660-V w/ Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	140.00	No Ice	8.88	6.44	0.07
						1/2" Ice	9.60	7.13	0.15
						Ice	10.34	7.83	0.23
						1" Ice	11.87	9.29	0.43
						2" Ice			

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment t °	Placement ft		C _{AA} Front ft ²	C _{AA} Side ft ²	Weight K
X7C-FRO-660-V w/ Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	140.00	No Ice	8.88	6.44	0.07
						1/2" Ice	9.60	7.13	0.15
						Ice	10.34	7.83	0.23
						1" Ice	11.87	9.29	0.43
						2" Ice			
BXA-171063-8BF-EDIN-2 w/ Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	140.00	No Ice	3.18	3.35	0.03
						1/2" Ice	3.56	3.97	0.06
						Ice	3.93	4.60	0.10
						1" Ice	4.69	5.89	0.19
						2" Ice			
BXA-171063-8BF-EDIN-2 w/ Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	140.00	No Ice	3.18	3.35	0.03
						1/2" Ice	3.56	3.97	0.06
						Ice	3.93	4.60	0.10
						1" Ice	4.69	5.89	0.19
						2" Ice			
BXA-171063-8BF-EDIN-2 w/ Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	140.00	No Ice	3.18	3.35	0.03
						1/2" Ice	3.56	3.97	0.06
						Ice	3.93	4.60	0.10
						1" Ice	4.69	5.89	0.19
						2" Ice			
(2) FD9R6004/2C-3L	A	From Leg	4.00 0.00 0.00	0.0000	140.00	No Ice	0.31	0.08	0.00
						1/2" Ice	0.39	0.12	0.01
						Ice	0.47	0.17	0.01
						1" Ice	0.65	0.29	0.02
						2" Ice			
(2) FD9R6004/2C-3L	B	From Leg	4.00 0.00 0.00	0.0000	140.00	No Ice	0.31	0.08	0.00
						1/2" Ice	0.39	0.12	0.01
						Ice	0.47	0.17	0.01
						1" Ice	0.65	0.29	0.02
						2" Ice			
(2) FD9R6004/2C-3L	C	From Leg	4.00 0.00 0.00	0.0000	140.00	No Ice	0.31	0.08	0.00
						1/2" Ice	0.39	0.12	0.01
						Ice	0.47	0.17	0.01
						1" Ice	0.65	0.29	0.02
						2" Ice			
RRH2X40-AWS	A	From Leg	4.00 0.00 0.00	0.0000	140.00	No Ice	2.16	1.42	0.04
						1/2" Ice	2.36	1.59	0.06
						Ice	2.57	1.77	0.08
						1" Ice	3.00	2.14	0.13
						2" Ice			
RRH2X40-AWS	B	From Leg	4.00 0.00 0.00	0.0000	140.00	No Ice	2.16	1.42	0.04
						1/2" Ice	2.36	1.59	0.06
						Ice	2.57	1.77	0.08
						1" Ice	3.00	2.14	0.13
						2" Ice			
RRH2X40-AWS	C	From Leg	4.00 0.00 0.00	0.0000	140.00	No Ice	2.16	1.42	0.04
						1/2" Ice	2.36	1.59	0.06
						Ice	2.57	1.77	0.08
						1" Ice	3.00	2.14	0.13
						2" Ice			
RRFDC-3315-PF-48	B	From Leg	4.00 0.00 0.00	0.0000	140.00	No Ice	3.36	2.19	0.03
						1/2" Ice	3.60	2.39	0.06
						Ice	3.84	2.61	0.09
						1" Ice	4.34	3.05	0.17
						2" Ice			
Platform Mount [LP 713-1]	C	None		0.0000	140.00	No Ice	32.89	32.89	1.51
						1/2" Ice	35.76	35.76	2.23
						Ice	38.76	38.76	3.03
						1" Ice	45.26	45.26	4.86
						2" Ice			
Side Arm Mount [SO 203-1]	A	From Leg	4.00 0.00 0.00	0.0000	140.00	No Ice	1.78	3.79	0.13
						1/2" Ice	2.24	4.47	0.15
						Ice	2.75	5.21	0.19
						1" Ice	3.89	6.78	0.29
						2" Ice			

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment t °	Placement ft		C _{AA} Front ft ²	C _{AA} Side ft ²	Weight K
Side Arm Mount [SO 203-1]	B	From Leg	4.00 0.00 0.00	0.0000	140.00	No Ice	1.78	3.79	0.13
						1/2" Ice	2.24	4.47	0.15
						Ice	2.75	5.21	0.19
						1" Ice	3.89	6.78	0.29
						2" Ice			
Side Arm Mount [SO 203-1]	C	From Leg	4.00 0.00 0.00	0.0000	140.00	No Ice	1.78	3.79	0.13
						1/2" Ice	2.24	4.47	0.15
						Ice	2.75	5.21	0.19
						1" Ice	3.89	6.78	0.29
						2" Ice			

APXVAARR24_43-U-NA20 w/ Mount Pipe	A	From Leg	4.00 0.00 2.00	0.0000	126.00	No Ice	14.69	6.87	0.19
						1/2" Ice	15.46	7.55	0.31
						Ice	16.23	8.25	0.46
						1" Ice	17.82	9.67	0.79
						2" Ice			
APXVAARR24_43-U-NA20 w/ Mount Pipe	B	From Leg	4.00 0.00 2.00	0.0000	126.00	No Ice	14.69	6.87	0.19
						1/2" Ice	15.46	7.55	0.31
						Ice	16.23	8.25	0.46
						1" Ice	17.82	9.67	0.79
						2" Ice			
APXVAARR24_43-U-NA20 w/ Mount Pipe	C	From Leg	4.00 0.00 2.00	0.0000	126.00	No Ice	14.69	6.87	0.19
						1/2" Ice	15.46	7.55	0.31
						Ice	16.23	8.25	0.46
						1" Ice	17.82	9.67	0.79
						2" Ice			
AIR -32 B2A/B66AA w/ Mount Pipe	A	From Leg	4.00 0.00 2.00	0.0000	126.00	No Ice	6.75	6.07	0.15
						1/2" Ice	7.20	6.87	0.21
						Ice	7.65	7.58	0.28
						1" Ice	8.57	9.06	0.44
						2" Ice			
AIR -32 B2A/B66AA w/ Mount Pipe	B	From Leg	4.00 0.00 2.00	0.0000	126.00	No Ice	6.75	6.07	0.15
						1/2" Ice	7.20	6.87	0.21
						Ice	7.65	7.58	0.28
						1" Ice	8.57	9.06	0.44
						2" Ice			
AIR -32 B2A/B66AA w/ Mount Pipe	C	From Leg	4.00 0.00 2.00	0.0000	126.00	No Ice	6.75	6.07	0.15
						1/2" Ice	7.20	6.87	0.21
						Ice	7.65	7.58	0.28
						1" Ice	8.57	9.06	0.44
						2" Ice			
ERICSSON AIR 21 B2A B4P_T-MOBILE w/ Mount Pipe	A	From Leg	4.00 0.00 2.00	0.0000	126.00	No Ice	6.33	5.64	0.11
						1/2" Ice	6.78	6.43	0.17
						Ice	7.21	7.13	0.23
						1" Ice	8.12	8.59	0.38
						2" Ice			
ERICSSON AIR 21 B2A B4P_T-MOBILE w/ Mount Pipe	B	From Leg	4.00 0.00 2.00	0.0000	126.00	No Ice	6.33	5.64	0.11
						1/2" Ice	6.78	6.43	0.17
						Ice	7.21	7.13	0.23
						1" Ice	8.12	8.59	0.38
						2" Ice			
ERICSSON AIR 21 B2A B4P_T-MOBILE w/ Mount Pipe	C	From Leg	4.00 0.00 2.00	0.0000	126.00	No Ice	6.33	5.64	0.11
						1/2" Ice	6.78	6.43	0.17
						Ice	7.21	7.13	0.23
						1" Ice	8.12	8.59	0.38
						2" Ice			
AIR6449 B41 w/ Mount Pipe	A	From Leg	4.00 0.00 2.00	0.0000	126.00	No Ice	5.89	3.28	0.12
						1/2" Ice	6.26	3.74	0.17
						Ice	6.63	4.22	0.22
						1" Ice	7.41	5.21	0.35
						2" Ice			
AIR6449 B41 w/ Mount Pipe	B	From Leg	4.00 0.00 2.00	0.0000	126.00	No Ice	5.89	3.28	0.12
						1/2" Ice	6.26	3.74	0.17
						Ice	6.63	4.22	0.22
						1" Ice	7.41	5.21	0.35
						2" Ice			

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment t °	Placement ft	C _{AA} Front ft ²	C _{AA} Side ft ²	Weight K	
AIR6449 B41 w/ Mount Pipe	C	From Leg	4.00 0.00 2.00	0.0000	126.00	2" Ice			
						No Ice	5.89	3.28	0.12
						1/2"	6.26	3.74	0.17
						Ice	6.63	4.22	0.22
RADIO 4449 B71 B85A_T-MOBILE	A	From Leg	4.00 0.00 2.00	0.0000	126.00	1" Ice	7.41	5.21	0.35
						2" Ice			
						No Ice	1.97	1.59	0.07
						1/2"	2.15	1.75	0.09
RADIO 4449 B71 B85A_T-MOBILE	B	From Leg	4.00 0.00 2.00	0.0000	126.00	Ice	2.33	1.92	0.12
						1" Ice	2.72	2.28	0.17
						2" Ice			
						No Ice	1.97	1.59	0.07
RADIO 4449 B71 B85A_T-MOBILE	C	From Leg	4.00 0.00 2.00	0.0000	126.00	1/2"	2.15	1.75	0.09
						Ice	2.33	1.92	0.12
						1" Ice	2.72	2.28	0.17
						2" Ice			
ATMAA1412D-1A20	A	From Leg	4.00 0.00 0.00	0.0000	126.00	No Ice	1.00	0.41	0.01
						1/2"	1.13	0.50	0.02
						Ice	1.26	0.59	0.03
						1" Ice	1.55	0.81	0.06
ATMAA1412D-1A20	B	From Leg	4.00 0.00 0.00	0.0000	126.00	2" Ice			
						No Ice	1.00	0.41	0.01
						1/2"	1.13	0.50	0.02
						Ice	1.26	0.59	0.03
ATMAA1412D-1A20	C	From Leg	4.00 0.00 0.00	0.0000	126.00	1" Ice	1.55	0.81	0.06
						2" Ice			
						No Ice	1.00	0.41	0.01
						1/2"	1.13	0.50	0.02
RRUS 4415 B25_CCIV2	A	From Leg	4.00 0.00 2.00	0.0000	126.00	Ice	2.19	1.07	0.08
						1" Ice	2.57	1.37	0.12
						2" Ice			
						No Ice	1.84	0.82	0.05
RRUS 4415 B25_CCIV2	B	From Leg	4.00 0.00 2.00	0.0000	126.00	1/2"	2.01	0.94	0.06
						Ice	2.19	1.07	0.08
						1" Ice	2.57	1.37	0.12
						2" Ice			
RRUS 4415 B25_CCIV2	C	From Leg	4.00 0.00 2.00	0.0000	126.00	No Ice	1.84	0.82	0.05
						1/2"	2.01	0.94	0.06
						Ice	2.19	1.07	0.08
						1" Ice	2.57	1.37	0.12
Platform Mount [LP 713-1_W/ Sitepro PRK-1245]	C	None		0.0000	126.00	2" Ice			
						No Ice	44.11	44.11	1.78
						1/2"	49.98	49.98	2.64
						Ice	56.15	56.15	3.62
L 2.5" x 2.5" x 3/16" x 144"	A	From Leg	4.00 0.00 2.00	0.0000	126.00	1" Ice	69.51	69.51	5.95
						2" Ice			
						No Ice	0.05	3.00	0.03
						1/2"	0.08	3.82	0.06
L 2.5" x 2.5" x 3/16" x 144"	B	From Leg	4.00 0.00 2.00	0.0000	126.00	Ice	0.12	4.64	0.10
						1" Ice	0.22	6.31	0.21
						2" Ice			
						No Ice	0.05	3.00	0.03
L 2.5" x 2.5" x 3/16" x 144"						1/2"	0.08	3.82	0.06
						Ice	0.12	4.64	0.10
						1" Ice	0.22	6.31	0.21
						2" Ice			

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment t °	Placement ft	C _{AA} Front ft ²	C _{AA} Side ft ²	Weight K	
L 2.5" x 2.5" x 3/16" x 144"	C	From Leg	4.00 0.00 2.00	0.0000	126.00	2" Ice			
						No Ice	0.05	3.00	0.03
						1/2"	0.08	3.82	0.06
						Ice	0.12	4.64	0.10
						1" Ice	0.22	6.31	0.21
*****						2" Ice			
7770.00 w/ Mount Pipe	A	From Leg	4.00 0.00 3.00	0.0000	117.00	No Ice	5.75	4.25	0.06
						1/2"	6.18	5.01	0.10
						Ice	6.61	5.71	0.16
						1" Ice	7.49	7.16	0.29
						2" Ice			
7770.00 w/ Mount Pipe	B	From Leg	4.00 0.00 3.00	0.0000	117.00	No Ice	5.75	4.25	0.06
						1/2"	6.18	5.01	0.10
						Ice	6.61	5.71	0.16
						1" Ice	7.49	7.16	0.29
						2" Ice			
7770.00 w/ Mount Pipe	C	From Leg	4.00 0.00 3.00	0.0000	117.00	No Ice	5.75	4.25	0.06
						1/2"	6.18	5.01	0.10
						Ice	6.61	5.71	0.16
						1" Ice	7.49	7.16	0.29
						2" Ice			
TPA-65R-LCUUUU-H8 w/ Mount Pipe	A	From Leg	4.00 0.00 3.00	0.0000	117.00	No Ice	11.85	8.99	0.11
						1/2"	12.77	9.88	0.21
						Ice	13.71	10.79	0.32
						1" Ice	15.64	12.66	0.58
						2" Ice			
QS66512-3 w/ Mount Pipe	B	From Leg	4.00 0.00 3.00	0.0000	117.00	No Ice	4.04	4.18	0.13
						1/2"	4.42	4.57	0.20
						Ice	4.82	4.97	0.28
						1" Ice	5.63	5.79	0.48
						2" Ice			
QS66512-3 w/ Mount Pipe	C	From Leg	4.00 0.00 3.00	0.0000	117.00	No Ice	4.04	4.18	0.13
						1/2"	4.42	4.57	0.20
						Ice	4.82	4.97	0.28
						1" Ice	5.63	5.79	0.48
						2" Ice			
DMP65R-BU8D w/ Mount Pipe	A	From Leg	4.00 0.00 3.00	0.0000	117.00	No Ice	15.89	7.89	0.14
						1/2"	16.81	8.74	0.25
						Ice	17.76	9.60	0.38
						1" Ice	19.70	11.37	0.68
						2" Ice			
DMP65R-BU6D w/ Mount Pipe	B	From Leg	4.00 0.00 3.00	0.0000	117.00	No Ice	11.96	5.97	0.11
						1/2"	12.70	6.63	0.20
						Ice	13.46	7.30	0.30
						1" Ice	15.02	8.69	0.53
						2" Ice			
DMP65R-BU6D w/ Mount Pipe	C	From Leg	4.00 0.00 3.00	0.0000	117.00	No Ice	11.96	5.97	0.11
						1/2"	12.70	6.63	0.20
						Ice	13.46	7.30	0.30
						1" Ice	15.02	8.69	0.53
						2" Ice			
(2) LGP21401	A	From Leg	4.00 0.00 3.00	0.0000	117.00	No Ice	1.10	0.35	0.01
						1/2"	1.24	0.44	0.02
						Ice	1.38	0.54	0.03
						1" Ice	1.69	0.77	0.05
						2" Ice			
(2) LGP21401	B	From Leg	4.00 0.00 3.00	0.0000	117.00	No Ice	1.10	0.35	0.01
						1/2"	1.24	0.44	0.02
						Ice	1.38	0.54	0.03
						1" Ice	1.69	0.77	0.05
						2" Ice			
(2) LGP21401	C	From Leg	4.00 0.00 3.00	0.0000	117.00	No Ice	1.10	0.35	0.01
						1/2"	1.24	0.44	0.02
						Ice	1.38	0.54	0.03

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C _{AA} Front ft ²	C _{AA} Side ft ²	Weight K
						1" Ice	1.69	0.77	0.05
						2" Ice			
DC6-48-60-18-8F	A	From Leg	4.00	0.0000	117.00	No Ice	1.21	1.21	0.03
			0.00			1/2"	1.89	1.89	0.05
			3.00			Ice	2.11	2.11	0.08
						1" Ice	2.57	2.57	0.14
						2" Ice			
DC6-48-60-18-8F	B	From Leg	4.00	0.0000	117.00	No Ice	1.21	1.21	0.03
			0.00			1/2"	1.89	1.89	0.05
			3.00			Ice	2.11	2.11	0.08
						1" Ice	2.57	2.57	0.14
						2" Ice			
RRUS 32 B30	A	From Leg	4.00	0.0000	117.00	No Ice	2.74	1.67	0.05
			0.00			1/2"	2.96	1.86	0.07
			3.00			Ice	3.19	2.05	0.10
						1" Ice	3.68	2.46	0.16
						2" Ice			
RRUS 32 B30	B	From Leg	4.00	0.0000	117.00	No Ice	2.74	1.67	0.05
			0.00			1/2"	2.96	1.86	0.07
			3.00			Ice	3.19	2.05	0.10
						1" Ice	3.68	2.46	0.16
						2" Ice			
RRUS 32 B30	C	From Leg	4.00	0.0000	117.00	No Ice	2.74	1.67	0.05
			0.00			1/2"	2.96	1.86	0.07
			3.00			Ice	3.19	2.05	0.10
						1" Ice	3.68	2.46	0.16
						2" Ice			
(2) RRUS 8843 B2/B66A_CCIV2	A	From Leg	4.00	0.0000	117.00	No Ice	1.98	1.70	0.08
			0.00			1/2"	2.16	1.86	0.10
			3.00			Ice	2.34	2.04	0.12
						1" Ice	2.73	2.41	0.18
						2" Ice			
RRUS 8843 B2/B66A_CCIV2	B	From Leg	4.00	0.0000	117.00	No Ice	1.98	1.70	0.08
			0.00			1/2"	2.16	1.86	0.10
			3.00			Ice	2.34	2.04	0.12
						1" Ice	2.73	2.41	0.18
						2" Ice			
RRUS 4449 B5/B12	A	From Leg	4.00	0.0000	117.00	No Ice	1.97	1.41	0.07
			0.00			1/2"	2.14	1.56	0.09
			3.00			Ice	2.33	1.73	0.11
						1" Ice	2.72	2.07	0.16
						2" Ice			
RRUS 4449 B5/B12	B	From Leg	4.00	0.0000	117.00	No Ice	1.97	1.41	0.07
			0.00			1/2"	2.14	1.56	0.09
			3.00			Ice	2.33	1.73	0.11
						1" Ice	2.72	2.07	0.16
						2" Ice			
RRUS 4449 B5/B12	C	From Leg	4.00	0.0000	117.00	No Ice	1.97	1.41	0.07
			0.00			1/2"	2.14	1.56	0.09
			3.00			Ice	2.33	1.73	0.11
						1" Ice	2.72	2.07	0.16
						2" Ice			
DC6-48-60-0-8C-EV	C	From Leg	4.00	0.0000	117.00	No Ice	2.74	4.78	0.03
			0.00			1/2"	2.96	5.06	0.06
			3.00			Ice	3.20	5.35	0.10
						1" Ice	3.68	5.95	0.20
						2" Ice			
Platform Mount [LP 713-1]	C	None		0.0000	117.00	No Ice	32.89	32.89	1.51
						1/2"	35.76	35.76	2.23
						Ice	38.76	38.76	3.03
						1" Ice	45.26	45.26	4.86
						2" Ice			

800MHz 2X50W RRH W/FILTER	A	From Leg	2.00	0.0000	104.00	No Ice	2.06	1.93	0.06
			0.00				2.24	2.11	0.09

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft	C _{AA} Front ft ²	C _{AA} Side ft ²	Weight K
			0.00			1/2" Ice 2.43 2.29 0.11		
						2" Ice 2.83 2.68 0.17		
800MHz 2X50W RRH W/FILTER	B	From Leg	2.00 0.00 0.00	0.0000	104.00	No Ice 2.06 1.93 0.06		
						1/2" Ice 2.24 2.11 0.09		
						1" Ice 2.43 2.29 0.11		
						2" Ice 2.83 2.68 0.17		
800MHz 2X50W RRH W/FILTER	C	From Leg	2.00 0.00 0.00	0.0000	104.00	No Ice 2.06 1.93 0.06		
						1/2" Ice 2.24 2.11 0.09		
						1" Ice 2.43 2.29 0.11		
						2" Ice 2.83 2.68 0.17		
PCS 1900MHz 4x45W-65MHz	A	From Leg	2.00 0.00 0.00	0.0000	104.00	No Ice 2.32 2.24 0.06		
						1/2" Ice 2.53 2.44 0.08		
						1" Ice 2.74 2.65 0.11		
						2" Ice 3.19 3.09 0.17		
PCS 1900MHz 4x45W-65MHz	B	From Leg	2.00 0.00 0.00	0.0000	104.00	No Ice 2.32 2.24 0.06		
						1/2" Ice 2.53 2.44 0.08		
						1" Ice 2.74 2.65 0.11		
						2" Ice 3.19 3.09 0.17		
PCS 1900MHz 4x45W-65MHz	C	From Leg	2.00 0.00 0.00	0.0000	104.00	No Ice 2.32 2.24 0.06		
						1/2" Ice 2.53 2.44 0.08		
						1" Ice 2.74 2.65 0.11		
						2" Ice 3.19 3.09 0.17		
Pipe Mount [PM 601-3]	C	None		0.0000	104.00	No Ice 3.17 3.17 0.20		
						1/2" Ice 3.79 3.79 0.23		
						1" Ice 4.42 4.42 0.28		
						2" Ice 5.76 5.76 0.40		
***** sprint *****								
AAHC w/ Mount Pipe	A	From Leg	4.00 0.00 2.00	0.0000	103.00	No Ice 4.41 2.69 0.12		
						1/2" Ice 4.73 3.08 0.16		
						1" Ice 5.06 3.49 0.20		
						2" Ice 5.74 4.36 0.31		
AAHC w/ Mount Pipe	B	From Leg	4.00 0.00 2.00	0.0000	103.00	No Ice 4.41 2.69 0.12		
						1/2" Ice 4.73 3.08 0.16		
						1" Ice 5.06 3.49 0.20		
						2" Ice 5.74 4.36 0.31		
AAHC w/ Mount Pipe	C	From Leg	4.00 0.00 2.00	0.0000	103.00	No Ice 4.41 2.69 0.12		
						1/2" Ice 4.73 3.08 0.16		
						1" Ice 5.06 3.49 0.20		
						2" Ice 5.74 4.36 0.31		
APXVSPP18-C-A20 w/ Mount Pipe	A	From Leg	4.00 0.00 2.00	0.0000	103.00	No Ice 4.60 4.01 0.10		
						1/2" Ice 5.05 4.45 0.16		
						1" Ice 5.50 4.89 0.23		
						2" Ice 6.44 5.82 0.42		
APXVSPP18-C-A20 w/ Mount Pipe	B	From Leg	4.00 0.00 2.00	0.0000	103.00	No Ice 4.60 4.01 0.10		
						1/2" Ice 5.05 4.45 0.16		
						1" Ice 5.50 4.89 0.23		
						2" Ice 6.44 5.82 0.42		
APXVSPP18-C-A20 w/ Mount Pipe	C	From Leg	4.00 0.00 2.00	0.0000	103.00	No Ice 4.60 4.01 0.10		
						1/2" Ice 5.05 4.45 0.16		
						1" Ice 5.50 4.89 0.23		
						2" Ice 6.44 5.82 0.42		

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft	Azimuth Adjustment t °	Placement ft		C _{AA} Front ft ²	C _{AA} Side ft ²	Weight K
IBC1900BB-1	A	From Leg	4.00 0.00 2.00	0.0000	103.00	No Ice	0.97	0.46	0.02
						1/2" Ice	1.09	0.56	0.03
						Ice	1.22	0.66	0.04
						1" Ice	1.51	0.89	0.06
						2" Ice			
IBC1900BB-1	B	From Leg	4.00 0.00 2.00	0.0000	103.00	No Ice	0.97	0.46	0.02
						1/2" Ice	1.09	0.56	0.03
						Ice	1.22	0.66	0.04
						1" Ice	1.51	0.89	0.06
						2" Ice			
IBC1900BB-1	C	From Leg	4.00 0.00 2.00	0.0000	103.00	No Ice	0.97	0.46	0.02
						1/2" Ice	1.09	0.56	0.03
						Ice	1.22	0.66	0.04
						1" Ice	1.51	0.89	0.06
						2" Ice			
IBC1900HG-2A	A	From Leg	4.00 0.00 2.00	0.0000	103.00	No Ice	0.97	0.46	0.02
						1/2" Ice	1.09	0.56	0.03
						Ice	1.22	0.66	0.04
						1" Ice	1.51	0.89	0.06
						2" Ice			
IBC1900HG-2A	B	From Leg	4.00 0.00 2.00	0.0000	103.00	No Ice	0.97	0.46	0.02
						1/2" Ice	1.09	0.56	0.03
						Ice	1.22	0.66	0.04
						1" Ice	1.51	0.89	0.06
						2" Ice			
IBC1900HG-2A	C	From Leg	4.00 0.00 2.00	0.0000	103.00	No Ice	0.97	0.46	0.02
						1/2" Ice	1.09	0.56	0.03
						Ice	1.22	0.66	0.04
						1" Ice	1.51	0.89	0.06
						2" Ice			
*****clearwireless*****									
LLPX310R-V1 w/ Mount Pipe	A	From Leg	4.00 0.00 2.00	0.0000	103.00	No Ice	3.88	2.36	0.06
						1/2" Ice	4.29	2.73	0.09
						Ice	4.72	3.12	0.13
						1" Ice	5.61	3.94	0.24
						2" Ice			
LLPX310R-V1 w/ Mount Pipe	B	From Leg	4.00 0.00 2.00	0.0000	103.00	No Ice	3.88	2.36	0.06
						1/2" Ice	4.29	2.73	0.09
						Ice	4.72	3.12	0.13
						1" Ice	5.61	3.94	0.24
						2" Ice			
LLPX310R-V1 w/ Mount Pipe	C	From Leg	4.00 0.00 2.00	0.0000	103.00	No Ice	3.88	2.36	0.06
						1/2" Ice	4.29	2.73	0.09
						Ice	4.72	3.12	0.13
						1" Ice	5.61	3.94	0.24
						2" Ice			
WIMAX DAP HEAD	A	From Leg	4.00 0.00 2.00	0.0000	103.00	No Ice	1.55	0.68	0.03
						1/2" Ice	1.70	0.80	0.04
						Ice	1.87	0.92	0.06
						1" Ice	2.22	1.19	0.09
						2" Ice			
WIMAX DAP HEAD	B	From Leg	4.00 0.00 2.00	0.0000	103.00	No Ice	1.55	0.68	0.03
						1/2" Ice	1.70	0.80	0.04
						Ice	1.87	0.92	0.06
						1" Ice	2.22	1.19	0.09
						2" Ice			
WIMAX DAP HEAD	C	From Leg	4.00 0.00 2.00	0.0000	103.00	No Ice	1.55	0.68	0.03
						1/2" Ice	1.70	0.80	0.04
						Ice	1.87	0.92	0.06
						1" Ice	2.22	1.19	0.09
						2" Ice			
HORIZON COMPACT	A	From Leg	4.00 0.00 4.00	0.0000	103.00	No Ice	0.72	0.37	0.01
						1/2" Ice	0.83	0.45	0.02
						Ice	0.94	0.54	0.03

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C _{AA} Front ft ²	C _{AA} Side ft ²	Weight K
						1" Ice	1.19	0.74	0.05
						2" Ice			
HORIZON COMPACT	B	From Leg	4.00	0.0000	103.00	No Ice	0.72	0.37	0.01
			0.00			1/2"	0.83	0.45	0.02
			4.00			Ice	0.94	0.54	0.03
						1" Ice	1.19	0.74	0.05
						2" Ice			
Platform Mount [LP 713-1]	C	None		0.0000	103.00	No Ice	32.89	32.89	1.51
						1/2"	35.76	35.76	2.23
						Ice	38.76	38.76	3.03
						1" Ice	45.26	45.26	4.86
						2" Ice			

742 213 w/ Mount Pipe	A	From Leg	4.00	0.0000	93.00	No Ice	3.54	2.98	0.05
			0.00			1/2"	4.13	3.57	0.09
			0.00			Ice	4.74	4.17	0.14
						1" Ice	6.01	5.42	0.27
						2" Ice			
742 213 w/ Mount Pipe	B	From Leg	4.00	0.0000	93.00	No Ice	3.54	2.98	0.05
			0.00			1/2"	4.13	3.57	0.09
			0.00			Ice	4.74	4.17	0.14
						1" Ice	6.01	5.42	0.27
						2" Ice			
742 213 w/ Mount Pipe	C	From Leg	4.00	0.0000	93.00	No Ice	3.54	2.98	0.05
			0.00			1/2"	4.13	3.57	0.09
			0.00			Ice	4.74	4.17	0.14
						1" Ice	6.01	5.42	0.27
						2" Ice			
Pipe Mount [PM 602-3]	C	None		0.0000	93.00	No Ice	6.67	6.67	0.28
						1/2"	7.70	7.70	0.34
						Ice	8.74	8.74	0.42
						1" Ice	10.90	10.90	0.63
						2" Ice			
(2) Side Arm Mount [SO 104-3]	C	None		0.0000	93.00	No Ice	2.62	2.62	0.29
						1/2"	3.30	3.30	0.41
						Ice	3.98	3.98	0.53
						1" Ice	5.35	5.35	0.77
						2" Ice			

BCD-87010	B	From Leg	2.00	60.0000	74.00	No Ice	2.90	2.90	0.03
			0.00			1/2"	4.05	4.05	0.05
			6.00			Ice	5.21	5.21	0.08
						1" Ice	7.01	7.01	0.16
						2" Ice			
Side Arm Mount [SO 701-1]	B	From Leg	0.00	60.0000	74.00	No Ice	0.85	1.67	0.07
			0.00			1/2"	1.14	2.34	0.08
			0.00			Ice	1.43	3.01	0.09
						1" Ice	2.01	4.35	0.12
						2" Ice			

KS24019-L112A	C	From Leg	4.00	0.0000	50.00	No Ice	0.14	0.14	0.01
			0.00			1/2"	0.20	0.20	0.01
			2.00			Ice	0.26	0.26	0.01
						1" Ice	0.41	0.41	0.02
						2" Ice			
Side Arm Mount [SO 701-1]	C	None		0.0000	50.00	No Ice	0.85	1.67	0.07
						1/2"	1.14	2.34	0.08
						Ice	1.43	3.01	0.09
						1" Ice	2.01	4.35	0.12
						2" Ice			

Dishes

Description	Face or Leg	Dish Type	Offset Type	Offsets: Horz Lateral Vert ft	Azimuth Adjustment °	3 dB Beam Width °	Elevation ft	Outside Diameter ft	Aperture Area ft ²	Weight K	
VHLP2.5-11	B	Paraboloid w/Shroud (HP)	From Leg	4.00	3.0000		103.00	2.92	No Ice	6.68	0.05
				0.00					1/2" Ice	7.07	0.08
				4.00					1" Ice	7.46	0.12
									2" Ice	8.23	0.19
VHLP2-180	C	Paraboloid w/Shroud (HP)	From Leg	4.00	86.0000		103.00	2.00	No Ice	3.14	0.03
				0.00					1/2" Ice	3.41	0.04
				4.00					1" Ice	3.68	0.06
									2" Ice	4.21	0.09

Tower Pressures - No Ice

$G_H = 1.100$

Section Elevation ft	z ft	K_z	q_z psf	A_G ft ²	F a c e	A_F ft ²	A_R ft ²	A_{leg} ft ²	Leg %	$C_A A_A$ In Face ft ²	$C_A A_A$ Out Face ft ²
L1 140.00-86.83	112.09	1.021	37	149.60	A	0.000	149.600	149.600	100.00	21.961	0.000
					B	0.000	149.600		100.00	63.166	0.000
					C	0.000	149.600		100.00	52.314	0.000
L2 86.83-38.00	62.01	0.862	31	187.21	A	0.000	187.219	187.219	100.00	54.787	0.000
					B	0.000	187.219		100.00	62.954	0.000
					C	0.000	187.219		100.00	68.020	0.000
L3 38.00-0.00	18.46	0.7	25	177.78	A	0.000	177.780	177.780	100.00	42.636	0.000
					B	0.000	177.780		100.00	52.972	0.000
					C	0.000	177.780		100.00	52.934	0.000

Tower Pressure - With Ice

$G_H = 1.100$

Section Elevation ft	z ft	K_z	q_z psf	t_z in	A_G ft ²	F a c e	A_F ft ²	A_R ft ²	A_{leg} ft ²	Leg %	$C_A A_A$ In Face ft ²	$C_A A_A$ Out Face ft ²
L1 140.00-86.83	112.09	1.021	6	1.9211	166.625	A	0.000	166.625	166.625	100.00	62.022	0.000
						B	0.000	166.625		100.00	104.494	0.000
						C	0.000	166.625		100.00	107.610	0.000
L2 86.83-38.00	62.01	0.862	5	1.8107	202.854	A	0.000	202.854	202.854	100.00	149.078	0.000
						B	0.000	202.854		100.00	119.351	0.000
						C	0.000	202.854		100.00	141.264	0.000
L3 38.00-0.00	18.46	0.7	4	1.6040	189.247	A	0.000	189.247	189.247	100.00	112.238	0.000
						B	0.000	189.247		100.00	108.982	0.000
						C	0.000	189.247		100.00	107.206	0.000

Tower Pressure - Service

$G_H = 1.100$

Section Elevation ft	z ft	K_z	q_z psf	A_G ft ²	F a c e	A_F ft ²	A_R ft ²	A_{leg} ft ²	Leg %	$C_A A_A$ In Face ft ²	$C_A A_A$ Out Face ft ²
L1 140.00-86.83	112.09	1.021	8	149.60	A	0.000	149.600	149.600	100.00	21.961	0.000
					B	0.000	149.600		100.00	63.166	0.000
					C	0.000	149.600		100.00	52.314	0.000
L2 86.83-38.00	62.01	0.862	7	187.21	A	0.000	187.219	187.219	100.00	54.787	0.000
					B	0.000	187.219		100.00	62.954	0.000
					C	0.000	187.219		100.00	68.020	0.000
L3 38.00-0.00	18.46	0.7	5	177.78	A	0.000	177.780	177.780	100.00	42.636	0.000
					B	0.000	177.780		100.00	52.972	0.000
					C	0.000	177.780		100.00	52.934	0.000

Load Combinations

Comb. No.	Description
1	Dead Only
2	1.2 Dead+1.0 Wind 0 deg - No Ice
3	0.9 Dead+1.0 Wind 0 deg - No Ice
4	1.2 Dead+1.0 Wind 30 deg - No Ice
5	0.9 Dead+1.0 Wind 30 deg - No Ice
6	1.2 Dead+1.0 Wind 60 deg - No Ice
7	0.9 Dead+1.0 Wind 60 deg - No Ice
8	1.2 Dead+1.0 Wind 90 deg - No Ice
9	0.9 Dead+1.0 Wind 90 deg - No Ice
10	1.2 Dead+1.0 Wind 120 deg - No Ice
11	0.9 Dead+1.0 Wind 120 deg - No Ice
12	1.2 Dead+1.0 Wind 150 deg - No Ice
13	0.9 Dead+1.0 Wind 150 deg - No Ice
14	1.2 Dead+1.0 Wind 180 deg - No Ice
15	0.9 Dead+1.0 Wind 180 deg - No Ice
16	1.2 Dead+1.0 Wind 210 deg - No Ice
17	0.9 Dead+1.0 Wind 210 deg - No Ice
18	1.2 Dead+1.0 Wind 240 deg - No Ice
19	0.9 Dead+1.0 Wind 240 deg - No Ice
20	1.2 Dead+1.0 Wind 270 deg - No Ice
21	0.9 Dead+1.0 Wind 270 deg - No Ice
22	1.2 Dead+1.0 Wind 300 deg - No Ice
23	0.9 Dead+1.0 Wind 300 deg - No Ice
24	1.2 Dead+1.0 Wind 330 deg - No Ice
25	0.9 Dead+1.0 Wind 330 deg - No Ice
26	1.2 Dead+1.0 Ice+1.0 Temp
27	1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp
28	1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp
29	1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp
30	1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp
31	1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp
32	1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp
33	1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp
34	1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp
35	1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp
36	1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp
37	1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp
38	1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp
39	Dead+Wind 0 deg - Service
40	Dead+Wind 30 deg - Service
41	Dead+Wind 60 deg - Service
42	Dead+Wind 90 deg - Service
43	Dead+Wind 120 deg - Service
44	Dead+Wind 150 deg - Service
45	Dead+Wind 180 deg - Service
46	Dead+Wind 210 deg - Service
47	Dead+Wind 240 deg - Service
48	Dead+Wind 270 deg - Service
49	Dead+Wind 300 deg - Service
50	Dead+Wind 330 deg - Service

Maximum Member Forces

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L1	140 - 86.83	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-64.61	-2.61	1.01
			Max. Mx	8	-23.89	-696.30	-4.35
			Max. My	2	-23.87	4.55	700.70
			Max. Vy	20	-24.38	695.38	5.14
			Max. Vx	14	24.52	-5.53	-699.93
			Max. Torque	21			-1.07
L2	86.83 - 38	Pole	Max Tension	1	0.00	0.00	0.00

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L3	38 - 0	Pole	Max. Compression	26	-90.51	-2.18	0.28
			Max. Mx	20	-39.22	1992.86	16.31
			Max. My	2	-39.21	18.15	2010.16
			Max. Vy	20	-30.17	1992.86	16.31
			Max. Vx	14	30.60	-16.64	-2010.05
			Max. Torque	24			-0.61
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-122.01	-1.40	0.31
			Max. Mx	20	-60.30	3461.53	26.87
			Max. My	14	-60.30	-26.73	-3499.91
			Max. Vy	20	-35.04	3461.53	26.87
			Max. Vx	14	35.52	-26.73	-3499.91
			Max. Torque	24			-0.58

Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Pole	Max. Vert	27	122.01	0.05	7.96
	Max. H _x	20	60.32	35.01	0.23
	Max. H _z	2	60.32	0.28	35.48
	Max. M _x	2	3499.74	0.28	35.48
	Max. M _z	8	3456.82	-34.96	-0.24
	Max. Torsion	14	0.47	-0.23	-35.49
	Min. Vert	5	45.24	-17.35	30.33
	Min. H _x	8	60.32	-34.96	-0.24
	Min. H _z	14	60.32	-0.23	-35.49
	Min. M _x	14	-3499.91	-0.23	-35.49
	Min. M _z	20	-3461.53	35.01	0.23
	Min. Torsion	24	-0.58	18.34	31.64

Tower Mast Reaction Summary

Load Combination	Vertical K	Shear _x K	Shear _z K	Overtuning Moment, M _x kip-ft	Overtuning Moment, M _z kip-ft	Torque kip-ft
Dead Only	50.26	0.00	0.00	-0.23	-0.36	0.00
1.2 Dead+1.0 Wind 0 deg - No Ice	60.32	-0.28	-35.48	-3499.74	31.10	0.46
0.9 Dead+1.0 Wind 0 deg - No Ice	45.24	-0.28	-35.48	-3475.15	31.00	0.46
1.2 Dead+1.0 Wind 30 deg - No Ice	60.32	17.35	-30.33	-3001.12	-1712.97	0.53
0.9 Dead+1.0 Wind 30 deg - No Ice	45.24	17.35	-30.33	-2979.97	-1700.82	0.53
1.2 Dead+1.0 Wind 60 deg - No Ice	60.32	30.23	-17.38	-1718.33	-2987.83	0.24
0.9 Dead+1.0 Wind 60 deg - No Ice	45.24	30.23	-17.38	-1706.19	-2966.73	0.24
1.2 Dead+1.0 Wind 90 deg - No Ice	60.32	34.96	0.24	26.77	-3456.82	0.08
0.9 Dead+1.0 Wind 90 deg - No Ice	45.24	34.96	0.24	26.65	-3432.43	0.08
1.2 Dead+1.0 Wind 120 deg - No Ice	60.32	32.32	18.83	1830.22	-3133.94	-0.20
0.9 Dead+1.0 Wind 120 deg - No Ice	45.24	32.32	18.83	1817.54	-3112.01	-0.20
1.2 Dead+1.0 Wind 150 deg - No Ice	60.32	18.31	31.62	3077.49	-1781.89	-0.41
0.9 Dead+1.0 Wind 150 deg - No Ice	45.24	18.31	31.62	3056.12	-1769.36	-0.41
1.2 Dead+1.0 Wind 180 deg - No Ice	60.32	0.23	35.49	3499.91	-26.73	-0.47

Load Combination	Vertical K	Shear _x K	Shear _z K	Overturning Moment, M _x kip-ft	Overturning Moment, M _z kip-ft	Torque kip-ft
0.9 Dead+1.0 Wind 180 deg - No Ice	45.24	0.23	35.49	3475.46	-26.42	-0.46
1.2 Dead+1.0 Wind 210 deg - No Ice	60.32	-17.29	30.37	3005.19	1705.63	-0.46
0.9 Dead+1.0 Wind 210 deg - No Ice	45.24	-17.29	30.37	2984.15	1693.77	-0.46
1.2 Dead+1.0 Wind 240 deg - No Ice	60.32	-30.28	17.32	1711.13	2992.18	-0.15
0.9 Dead+1.0 Wind 240 deg - No Ice	45.24	-30.28	17.32	1699.18	2971.30	-0.15
1.2 Dead+1.0 Wind 270 deg - No Ice	60.32	-35.01	-0.23	-26.87	3461.53	0.13
0.9 Dead+1.0 Wind 270 deg - No Ice	45.24	-35.01	-0.23	-26.61	3437.35	0.13
1.2 Dead+1.0 Wind 300 deg - No Ice	60.32	-32.35	-18.85	-1832.16	3136.65	0.43
0.9 Dead+1.0 Wind 300 deg - No Ice	45.24	-32.35	-18.85	-1819.33	3114.94	0.43
1.2 Dead+1.0 Wind 330 deg - No Ice	60.32	-18.34	-31.64	-3080.54	1784.63	0.58
0.9 Dead+1.0 Wind 330 deg - No Ice	45.24	-18.34	-31.64	-3059.00	1772.32	0.58
1.2 Dead+1.0 Ice+1.0 Temp	122.01	0.00	-0.00	-0.31	-1.40	0.00
1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp	122.01	-0.05	-7.96	-830.67	4.76	0.20
1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp	122.01	3.94	-6.88	-717.58	-412.23	0.20
1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp	122.01	6.87	-3.95	-411.53	-717.11	0.10
1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp	122.01	7.94	0.05	5.18	-829.13	0.02
1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp	122.01	6.89	4.01	418.11	-719.92	-0.09
1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp	122.01	4.00	6.90	720.03	-419.02	-0.17
1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp	122.01	0.04	7.96	830.15	-6.97	-0.20
1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp	122.01	-3.93	6.89	717.78	407.58	-0.18
1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp	122.01	-6.88	3.93	409.40	714.88	-0.08
1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp	122.01	-7.95	-0.05	-5.75	826.99	0.03
1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp	122.01	-6.90	-4.01	-419.07	717.35	0.14
1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp	122.01	-4.01	-6.91	-721.21	416.46	0.21
Dead+Wind 0 deg - Service	50.26	-0.06	-7.70	-756.35	6.44	0.10
Dead+Wind 30 deg - Service	50.26	3.76	-6.58	-648.61	-370.39	0.12
Dead+Wind 60 deg - Service	50.26	6.56	-3.77	-371.44	-645.84	0.05
Dead+Wind 90 deg - Service	50.26	7.59	0.05	5.61	-747.17	0.02
Dead+Wind 120 deg - Service	50.26	7.01	4.09	395.29	-677.46	-0.04
Dead+Wind 150 deg - Service	50.26	3.97	6.86	664.79	-385.30	-0.09
Dead+Wind 180 deg - Service	50.26	0.05	7.70	756.04	-6.06	-0.10
Dead+Wind 210 deg - Service	50.26	-3.75	6.59	649.13	368.24	-0.10
Dead+Wind 240 deg - Service	50.26	-6.57	3.76	369.53	646.22	-0.03
Dead+Wind 270 deg - Service	50.26	-7.60	-0.05	-5.98	747.63	0.03
Dead+Wind 300 deg - Service	50.26	-7.02	-4.09	-396.06	677.48	0.09
Dead+Wind 330 deg - Service	50.26	-3.98	-6.87	-665.80	385.33	0.13

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	-50.26	0.00	0.00	50.26	0.00	0.000%
2	-0.28	-60.32	-35.48	0.28	60.32	35.48	0.000%
3	-0.28	-45.24	-35.48	0.28	45.24	35.48	0.000%
4	17.35	-60.32	-30.33	-17.35	60.32	30.33	0.000%
5	17.35	-45.24	-30.33	-17.35	45.24	30.33	0.000%
6	30.23	-60.32	-17.38	-30.23	60.32	17.38	0.000%
7	30.23	-45.24	-17.38	-30.23	45.24	17.38	0.000%
8	34.96	-60.32	0.24	-34.96	60.32	-0.24	0.000%
9	34.96	-45.24	0.24	-34.96	45.24	-0.24	0.000%
10	32.32	-60.32	18.83	-32.32	60.32	-18.83	0.000%
11	32.32	-45.24	18.83	-32.32	45.24	-18.83	0.000%
12	18.31	-60.32	31.62	-18.31	60.32	-31.62	0.000%
13	18.31	-45.24	31.62	-18.31	45.24	-31.62	0.000%
14	0.23	-60.32	35.49	-0.23	60.32	-35.49	0.000%
15	0.23	-45.24	35.49	-0.23	45.24	-35.49	0.000%
16	-17.29	-60.32	30.37	17.29	60.32	-30.37	0.000%
17	-17.29	-45.24	30.37	17.29	45.24	-30.37	0.000%
18	-30.28	-60.32	17.32	30.28	60.32	-17.32	0.000%
19	-30.28	-45.24	17.32	30.28	45.24	-17.32	0.000%
20	-35.01	-60.32	-0.23	35.01	60.32	0.23	0.000%
21	-35.01	-45.24	-0.23	35.01	45.24	0.23	0.000%
22	-32.35	-60.32	-18.85	32.35	60.32	18.85	0.000%
23	-32.35	-45.24	-18.85	32.35	45.24	18.85	0.000%
24	-18.34	-60.32	-31.64	18.34	60.32	31.64	0.000%
25	-18.34	-45.24	-31.64	18.34	45.24	31.64	0.000%
26	0.00	-122.01	0.00	-0.00	122.01	0.00	0.000%
27	-0.05	-122.01	-7.96	0.05	122.01	7.96	0.000%
28	3.94	-122.01	-6.88	-3.94	122.01	6.88	0.000%
29	6.87	-122.01	-3.95	-6.87	122.01	3.95	0.000%
30	7.94	-122.01	0.05	-7.94	122.01	-0.05	0.000%
31	6.89	-122.01	4.01	-6.89	122.01	-4.01	0.000%
32	4.00	-122.01	6.90	-4.00	122.01	-6.90	0.000%
33	0.04	-122.01	7.96	-0.04	122.01	-7.96	0.000%
34	-3.93	-122.01	6.88	3.93	122.01	-6.89	0.000%
35	-6.88	-122.01	3.93	6.88	122.01	-3.93	0.000%
36	-7.95	-122.01	-0.05	7.95	122.01	0.05	0.000%
37	-6.90	-122.01	-4.01	6.90	122.01	4.01	0.000%
38	-4.01	-122.01	-6.91	4.01	122.01	6.91	0.000%
39	-0.06	-50.26	-7.70	0.06	50.26	7.70	0.000%
40	3.76	-50.26	-6.58	-3.76	50.26	6.58	0.000%
41	6.56	-50.26	-3.77	-6.56	50.26	3.77	0.000%
42	7.59	-50.26	0.05	-7.59	50.26	-0.05	0.000%
43	7.01	-50.26	4.09	-7.01	50.26	-4.09	0.000%
44	3.97	-50.26	6.86	-3.97	50.26	-6.86	0.000%
45	0.05	-50.26	7.70	-0.05	50.26	-7.70	0.000%
46	-3.75	-50.26	6.59	3.75	50.26	-6.59	0.000%
47	-6.57	-50.26	3.76	6.57	50.26	-3.76	0.000%
48	-7.60	-50.26	-0.05	7.60	50.26	0.05	0.000%
49	-7.02	-50.26	-4.09	7.02	50.26	4.09	0.000%
50	-3.98	-50.26	-6.87	3.98	50.26	6.87	0.000%

Non-Linear Convergence Results

Load Combination	Converged?	Number of Cycles	Displacement Tolerance	Force Tolerance
1	Yes	4	0.00000001	0.00000001
2	Yes	4	0.00000001	0.00005189
3	Yes	4	0.00000001	0.00002576
4	Yes	5	0.00000001	0.00005375
5	Yes	5	0.00000001	0.00002555
6	Yes	5	0.00000001	0.00005302
7	Yes	4	0.00000001	0.00099957
8	Yes	4	0.00000001	0.00005667
9	Yes	4	0.00000001	0.00002991
10	Yes	5	0.00000001	0.00005821
11	Yes	5	0.00000001	0.00002736
12	Yes	5	0.00000001	0.00005634
13	Yes	5	0.00000001	0.00002663
14	Yes	4	0.00000001	0.00007750
15	Yes	4	0.00000001	0.00004555
16	Yes	5	0.00000001	0.00005258
17	Yes	4	0.00000001	0.00099169
18	Yes	5	0.00000001	0.00005280
19	Yes	4	0.00000001	0.00099591
20	Yes	4	0.00000001	0.00007205
21	Yes	4	0.00000001	0.00004185
22	Yes	5	0.00000001	0.00005935
23	Yes	5	0.00000001	0.00002792
24	Yes	5	0.00000001	0.00005515
25	Yes	5	0.00000001	0.00002603
26	Yes	4	0.00000001	0.00000385
27	Yes	4	0.00000001	0.00095658
28	Yes	5	0.00000001	0.00009323
29	Yes	5	0.00000001	0.00009314
30	Yes	4	0.00000001	0.00095726
31	Yes	5	0.00000001	0.00009365
32	Yes	5	0.00000001	0.00009368
33	Yes	4	0.00000001	0.00095366
34	Yes	4	0.00000001	0.00099427
35	Yes	4	0.00000001	0.00099166
36	Yes	4	0.00000001	0.00094612
37	Yes	5	0.00000001	0.00009290
38	Yes	5	0.00000001	0.00009319
39	Yes	4	0.00000001	0.00000956
40	Yes	4	0.00000001	0.00002340
41	Yes	4	0.00000001	0.00002272
42	Yes	4	0.00000001	0.00000944
43	Yes	4	0.00000001	0.00002478
44	Yes	4	0.00000001	0.00002457
45	Yes	4	0.00000001	0.00000965
46	Yes	4	0.00000001	0.00002220
47	Yes	4	0.00000001	0.00002249
48	Yes	4	0.00000001	0.00000951
49	Yes	4	0.00000001	0.00002592
50	Yes	4	0.00000001	0.00002323

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	140 - 86.83	11.232	43	0.6730	0.0005
L2	92.5 - 38	5.030	43	0.5191	0.0002
L3	45 - 0	1.167	49	0.2346	0.0001

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
140.00	BXA-80063-4BF-EDIN-X w/ Mount Pipe	43	11.232	0.6730	0.0005	96508
126.00	APXVAARR24_43-U-NA20 w/ Mount Pipe	43	9.284	0.6377	0.0004	34467
117.00	7770.00 w/ Mount Pipe	43	8.064	0.6124	0.0004	20980
107.00	VHLP2.5-11	43	6.763	0.5796	0.0003	14622
104.00	800MHz 2X50W RRH W/FILTER	43	6.388	0.5685	0.0003	13403
103.00	AAHC w/ Mount Pipe	43	6.265	0.5646	0.0003	13041
93.00	742 213 w/ Mount Pipe	43	5.086	0.5215	0.0002	10365
74.00	BCD-87010	43	3.170	0.4164	0.0001	9212
50.00	KS24019-L112A	49	1.428	0.2650	0.0001	8219

Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	140 - 86.83	51.986	22	3.1143	0.0024
L2	92.5 - 38	23.297	22	2.4048	0.0009
L3	45 - 0	5.407	22	1.0869	0.0003

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
140.00	BXA-80063-4BF-EDIN-X w/ Mount Pipe	22	51.986	3.1143	0.0024	20987
126.00	APXVAARR24_43-U-NA20 w/ Mount Pipe	22	42.979	2.9517	0.0019	7494
117.00	7770.00 w/ Mount Pipe	22	37.335	2.8350	0.0016	4561
107.00	VHLP2.5-11	22	31.318	2.6838	0.0013	3177
104.00	800MHz 2X50W RRH W/FILTER	22	29.582	2.6326	0.0012	2912
103.00	AAHC w/ Mount Pipe	22	29.011	2.6149	0.0012	2833
93.00	742 213 w/ Mount Pipe	22	23.557	2.4158	0.0009	2251
74.00	BCD-87010	22	14.685	1.9290	0.0006	1996
50.00	KS24019-L112A	22	6.613	1.2280	0.0003	1775

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	140 - 86.83 (1)	TP39.223x26.216x0.3125	53.17	0.00	0.0	37.758 0	-23.81	2208.84	0.011
L2	86.83 - 38 (2)	TP50.56x37.2109x0.4063	54.50	0.00	0.0	63.364 5	-39.16	3706.82	0.011
L3	38 - 0 (3)	TP59.05x48.0329x0.5	45.00	0.00	0.0	94.265 5	-60.30	5514.53	0.011

Pole Bending Design Data

Section No.	Elevation ft	Size	M_{ux} kip-ft	ϕM_{nx} kip-ft	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	M_{uy} kip-ft	ϕM_{ny} kip-ft	Ratio $\frac{M_{uy}}{\phi M_{ny}}$
L1	140 - 86.83 (1)	TP39.223x26.216x0.3125	714.79	1838.14	0.389	0.00	1838.14	0.000
L2	86.83 - 38 (2)	TP50.56x37.2109x0.4063	2070.44	3995.66	0.518	0.00	3995.66	0.000
L3	38 - 0 (3)	TP59.05x48.0329x0.5	3632.55	7247.00	0.501	0.00	7247.00	0.000

Pole Shear Design Data

Section No.	Elevation ft	Size	Actual V_u K	ϕV_n K	Ratio $\frac{V_u}{\phi V_n}$	Actual T_u kip-ft	ϕT_n kip-ft	Ratio $\frac{T_u}{\phi T_n}$
L1	140 - 86.83 (1)	TP39.223x26.216x0.3125	25.15	662.65	0.038	0.25	2187.20	0.000
L2	86.83 - 38 (2)	TP50.56x37.2109x0.4063	31.87	1112.05	0.029	0.43	4738.27	0.000
L3	38 - 0 (3)	TP59.05x48.0329x0.5	37.47	1654.36	0.023	0.43	8520.33	0.000

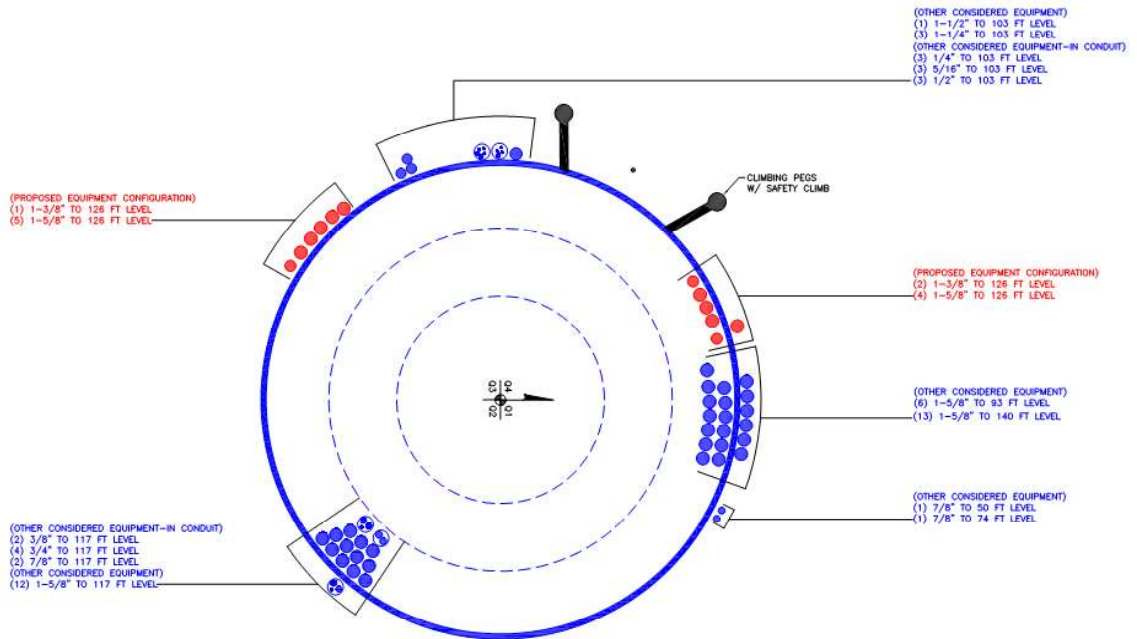
Pole Interaction Design Data

Section No.	Elevation ft	Ratio P_u	Ratio M_{ux}	Ratio M_{uy}	Ratio V_u	Ratio T_u	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
		$\frac{\phi P_n}{P_u}$	$\frac{\phi M_{nx}}{M_{ux}}$	$\frac{\phi M_{ny}}{M_{uy}}$	$\frac{\phi V_n}{V_u}$	$\frac{\phi T_n}{T_u}$			
L1	140 - 86.83 (1)	0.011	0.389	0.000	0.038	0.000	0.401	1.050	4.8.2
L2	86.83 - 38 (2)	0.011	0.518	0.000	0.029	0.000	0.530	1.050	4.8.2
L3	38 - 0 (3)	0.011	0.501	0.000	0.023	0.000	0.513	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	140 - 86.83	Pole	TP39.223x26.216x0.3125	1	-23.81	2319.28	38.2	Pass
L2	86.83 - 38	Pole	TP50.56x37.2109x0.4063	2	-39.16	3892.16	50.4	Pass
L3	38 - 0	Pole	TP59.05x48.0329x0.5	3	-60.30	5790.26	48.8	Pass
Summary								
Pole (L2)							50.4	Pass
RATING =							50.4	Pass

APPENDIX B
BASE LEVEL DRAWING



APPENDIX C
ADDITIONAL CALCULATIONS

Monopole Base Plate Connection

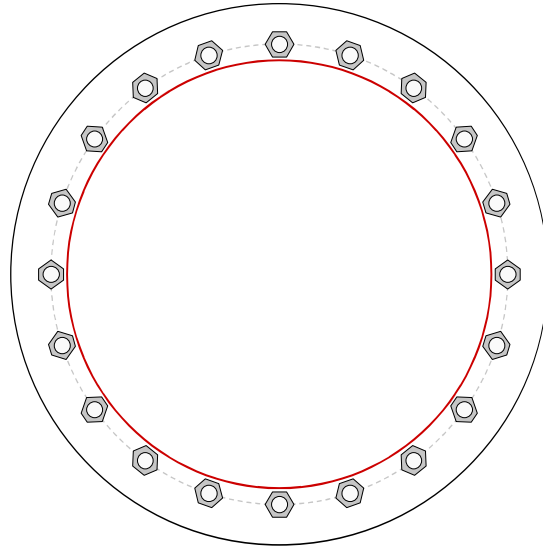


Site Info	
BU #	806369
Site Name	HRT 094 943225
Order #	523998 Rev. 1

Analysis Considerations	
TIA-222 Revision	H
Grout Considered:	No
I_{gr} (in)	0.25

Applied Loads	
Moment (kip-ft)	3632.55
Axial Force (kips)	60.30
Shear Force (kips)	37.47

*TIA-222-H Section 15.5 Applied



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

Anchor Rod Data
(20) 2-1/4" ϕ bolts (A615-75 N; $F_y=75$ ksi, $F_u=100$ ksi) on 63.5" BC
Base Plate Data
74.641" OD x 3" Plate (A572-60; $F_y=60$ ksi, $F_u=75$ ksi)
Stiffener Data
N/A
Pole Data
59.05" x 0.5" 12-sided pole (A572-65; $F_y=65$ ksi, $F_u=80$ ksi)

Anchor Rod Summary		<i>(units of kips, kip-in)</i>
$Pu_c = 140.24$	$\phi Pn_c = 268.39$	Stress Rating
$Vu = 1.87$	$\phi Vn = 120.77$	49.8%
$Mu = n/a$	$\phi Mn = n/a$	Pass
Base Plate Summary		
Max Stress (ksi):	9.67	(Flexural)
Allowable Stress (ksi):	54	
Stress Rating:	17.1%	Pass

=====
LPile for Windows, Version 2019-11.005

Analysis of Individual Piles and Drilled Shafts
Subjected to Lateral Loading Using the p-y Method
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Files Used for Analysis

Path to file locations:

\TOWER\375_Crown_Castle\2020\37520-1171_806369_HRT 094
943225\37520-1171.001.7805_SA_1859403\L-PILE ANALYSIS\

Name of input data file:

37520-1171.001.7805 - LPile (USCS units).lp11d

Name of output report file:

37520-1171.001.7805 - LPile (USCS units).lp11o

Name of plot output file:

37520-1171.001.7805 - LPile (USCS units).lp11p

Name of runtime message file:

37520-1171.001.7805 - LPile (USCS units).lp11r

Date and Time of Analysis

Date: June 24, 2020

Time: 5:12:56

Problem Title

Project Name: HRT 094 943225

Job Number: 37520-1171.001.7805

Client: CCI

Engineer: NCM

Description: BU 806369

Program Options and Settings

Computational Options:

- Conventional Analysis

Engineering Units Used for Data Input and Computations:

- US Customary System Units (pounds, feet, inches)

Analysis Control Options:

- Maximum number of iterations allowed = 500
- Deflection tolerance for convergence = 1.0000E-05 in
- Maximum allowable deflection = 100.0000 in
- Number of pile increments = 100

Loading Type and Number of Cycles of Loading:

- Static loading specified

- Use of p-y modification factors for p-y curves not selected
- Analysis uses layering correction (Method of Georgiadis)
- No distributed lateral loads are entered
- Loading by lateral soil movements acting on pile not selected
- Input of shear resistance at the pile tip not selected
- Input of moment resistance at the pile tip not selected
- Input of side resistance moment along pile not selected
- Computation of pile-head foundation stiffness matrix not selected
- Push-over analysis of pile not selected
- Buckling analysis of pile not selected

Output Options:

- Output files use decimal points to denote decimal symbols.
- Values of pile-head deflection, bending moment, shear force, and soil reaction are printed for full length of pile.
- Printing Increment (nodal spacing of output points) = 1
- No p-y curves to be computed and reported for user-specified depths
- Print using wide report formats

 Pile Structural Properties and Geometry

Number of pile sections defined = 1
 Total length of pile = 47.000 ft
 Depth of ground surface below top of pile = 0.0000 ft

Pile diameters used for p-y curve computations are defined using 2 points.

p-y curves are computed using pile diameter values interpolated with depth over the length of the pile. A summary of values of pile diameter vs. depth follows.

Point No.	Depth Below Pile Head feet	Pile Diameter inches
1	0.000	90.0000
2	47.000	90.0000

Input Structural Properties for Pile Sections:

Pile Section No. 1:

Section 1 is a round drilled shaft, bored pile, or CIDH pile
 Length of section = 47.000000 ft

Shaft Diameter	=	90.000000 in
Shear capacity of section	=	0.0000 lbs

 Ground Slope and Pile Batter Angles

Ground Slope Angle	=	0.000 degrees
	=	0.000 radians
Pile Batter Angle	=	0.000 degrees
	=	0.000 radians

 Soil and Rock Layering Information

The soil profile is modelled using 8 layers

Layer 1 is sand, p-y criteria by Reese et al., 1974

Distance from top of pile to top of layer	=	0.0000 ft
Distance from top of pile to bottom of layer	=	2.000000 ft
Effective unit weight at top of layer	=	105.000000 pcf
Effective unit weight at bottom of layer	=	105.000000 pcf
Friction angle at top of layer	=	32.000000 deg.
Friction angle at bottom of layer	=	32.000000 deg.
Subgrade k at top of layer	=	0.0000 pci
Subgrade k at bottom of layer	=	0.0000 pci

NOTE: Default values for subgrade k will be computed for this layer.

Layer 2 is sand, p-y criteria by Reese et al., 1974

Distance from top of pile to top of layer	=	2.000000 ft
Distance from top of pile to bottom of layer	=	3.750000 ft
Effective unit weight at top of layer	=	100.000000 pcf
Effective unit weight at bottom of layer	=	100.000000 pcf
Friction angle at top of layer	=	30.000000 deg.
Friction angle at bottom of layer	=	30.000000 deg.
Subgrade k at top of layer	=	0.0000 pci
Subgrade k at bottom of layer	=	0.0000 pci

NOTE: Default values for subgrade k will be computed for this layer.

Layer 3 is sand, p-y criteria by Reese et al., 1974

Distance from top of pile to top of layer	=	3.750000	ft
Distance from top of pile to bottom of layer	=	5.000000	ft
Effective unit weight at top of layer	=	100.000000	pcf
Effective unit weight at bottom of layer	=	100.000000	pcf
Friction angle at top of layer	=	30.000000	deg.
Friction angle at bottom of layer	=	30.000000	deg.
Subgrade k at top of layer	=	0.0000	pci
Subgrade k at bottom of layer	=	0.0000	pci

NOTE: Default values for subgrade k will be computed for this layer.

Layer 4 is sand, p-y criteria by Reese et al., 1974

Distance from top of pile to top of layer	=	5.000000	ft
Distance from top of pile to bottom of layer	=	10.000000	ft
Effective unit weight at top of layer	=	100.000000	pcf
Effective unit weight at bottom of layer	=	100.000000	pcf
Friction angle at top of layer	=	30.000000	deg.
Friction angle at bottom of layer	=	30.000000	deg.
Subgrade k at top of layer	=	0.0000	pci
Subgrade k at bottom of layer	=	0.0000	pci

NOTE: Default values for subgrade k will be computed for this layer.

Layer 5 is sand, p-y criteria by Reese et al., 1974

Distance from top of pile to top of layer	=	10.000000	ft
Distance from top of pile to bottom of layer	=	25.000000	ft
Effective unit weight at top of layer	=	36.000000	pcf
Effective unit weight at bottom of layer	=	36.000000	pcf
Friction angle at top of layer	=	30.000000	deg.
Friction angle at bottom of layer	=	30.000000	deg.
Subgrade k at top of layer	=	0.0000	pci
Subgrade k at bottom of layer	=	0.0000	pci

NOTE: Default values for subgrade k will be computed for this layer.

Layer 6 is sand, p-y criteria by Reese et al., 1974

Distance from top of pile to top of layer	=	25.000000	ft
Distance from top of pile to bottom of layer	=	35.000000	ft
Effective unit weight at top of layer	=	36.000000	pcf
Effective unit weight at bottom of layer	=	36.000000	pcf
Friction angle at top of layer	=	27.000000	deg.
Friction angle at bottom of layer	=	27.000000	deg.
Subgrade k at top of layer	=	0.0000	pci
Subgrade k at bottom of layer	=	0.0000	pci

NOTE: Default values for subgrade k will be computed for this layer.

Layer 7 is stiff clay with water-induced erosion

Distance from top of pile to top of layer = 35.000000 ft
 Distance from top of pile to bottom of layer = 45.000000 ft
 Effective unit weight at top of layer = 41.000000 pcf
 Effective unit weight at bottom of layer = 41.000000 pcf
 Undrained cohesion at top of layer = 200.000000 psf
 Undrained cohesion at bottom of layer = 200.000000 psf
 Epsilon-50 at top of layer = 0.0000
 Epsilon-50 at bottom of layer = 0.0000
 Subgrade k at top of layer = 0.0000 pci
 Subgrade k at bottom of layer = 0.0000 pci

NOTE: Default values for Epsilon-50 will be computed for this layer.

NOTE: Default values for subgrade k will be computed for this layer.

Layer 8 is sand, p-y criteria by Reese et al., 1974

Distance from top of pile to top of layer = 45.000000 ft
 Distance from top of pile to bottom of layer = 47.000000 ft
 Effective unit weight at top of layer = 41.000000 pcf
 Effective unit weight at bottom of layer = 41.000000 pcf
 Friction angle at top of layer = 32.000000 deg.
 Friction angle at bottom of layer = 32.000000 deg.
 Subgrade k at top of layer = 0.0000 pci
 Subgrade k at bottom of layer = 0.0000 pci

NOTE: Default values for subgrade k will be computed for this layer.

(Depth of the lowest soil layer extends 0.000 ft below the pile tip)

 Summary of Input Soil Properties

Layer E50 Layer or Num. krm	Soil Type Name (p-y Curve Type) kpy pci	Layer Depth ft	Effective Unit Wt. pcf	Undrained Cohesion psf	Angle of Friction deg.
1	Sand	0.00	105.0000	--	32.0000
--	default (Reese, et al.)	2.0000	105.0000	--	32.0000

--	default				
2	Sand	2.0000	100.0000	--	30.0000
--	default				
	(Reese, et al.)	3.7500	100.0000	--	30.0000
--	default				
3	Sand	3.7500	100.0000	--	30.0000
--	default				
	(Reese, et al.)	5.0000	100.0000	--	30.0000
--	default				
4	Sand	5.0000	100.0000	--	30.0000
--	default				
	(Reese, et al.)	10.0000	100.0000	--	30.0000
--	default				
5	Sand	10.0000	36.0000	--	30.0000
--	default				
	(Reese, et al.)	25.0000	36.0000	--	30.0000
--	default				
6	Sand	25.0000	36.0000	--	27.0000
--	default				
	(Reese, et al.)	35.0000	36.0000	--	27.0000
--	default				
7	Stiff Clay	35.0000	41.0000	200.0000	--
default	default				
	with Free Water	45.0000	41.0000	200.0000	--
default	default				
8	Sand	45.0000	41.0000	--	32.0000
--	default				
	(Reese, et al.)	47.0000	41.0000	--	32.0000
--	default				

 Static Loading Type

Static loading criteria were used when computing p-y curves for all analyses.

 Pile-head Loading and Pile-head Fixity Conditions

Number of loads specified = 2

Load Compute No.	Load Top y Type	Condition Run Analysis 1	Condition 2	Axial Thrust Force, lbs
vs. Pile Length				

-----	-----					
1	1	V =	37000. lbs	M =	43596000. in-lbs	60000.
No			Yes			
2	1	V =	8000. lbs	M =	9420000. in-lbs	50000.
No			Yes			

V = shear force applied normal to pile axis
M = bending moment applied to pile head
y = lateral deflection normal to pile axis
S = pile slope relative to original pile batter angle
R = rotational stiffness applied to pile head
Values of top y vs. pile lengths can be computed only for load types with specified shear loading (Load Types 1, 2, and 3).
Thrust force is assumed to be acting axially for all pile batter angles.

Computations of Nominal Moment Capacity and Nonlinear Bending Stiffness

Axial thrust force values were determined from pile-head loading conditions

Number of Pile Sections Analyzed = 1

Pile Section No. 1:

Dimensions and Properties of Drilled Shaft (Bored Pile):

Length of Section	=	47.000000 ft
Shaft Diameter	=	90.000000 in
Concrete Cover Thickness (to edge of long. rebar)	=	3.000000 in
Number of Reinforcing Bars	=	52 bars
Yield Stress of Reinforcing Bars	=	60000. psi
Modulus of Elasticity of Reinforcing Bars	=	29000000. psi
Gross Area of Shaft	=	6362. sq. in.
Total Area of Reinforcing Steel	=	66.040000 sq. in.
Area Ratio of Steel Reinforcement	=	1.04 percent
Edge-to-Edge Bar Spacing	=	3.725113 in
Maximum Concrete Aggregate Size	=	0.750000 in
Ratio of Bar Spacing to Aggregate Size	=	4.97
Offset of Center of Rebar Cage from Center of Pile	=	0.0000 in

Axial Structural Capacities:

Nom. Axial Structural Capacity = $0.85 F_c A_c + F_y A_s$	=	20016.397 kips
Tensile Load for Cracking of Concrete	=	-2501.255 kips

Nominal Axial Tensile Capacity = -3962.400 kips

Reinforcing Bar Dimensions and Positions Used in Computations:

Bar Number	Bar Diam. inches	Bar Area sq. in.	X inches	Y inches
1	1.270000	1.270000	41.365000	0.000000
2	1.270000	1.270000	41.063403	4.986000
3	1.270000	1.270000	40.163008	9.899292
4	1.270000	1.270000	38.676947	14.668231
5	1.270000	1.270000	36.626889	19.223274
6	1.270000	1.270000	34.042728	23.497998
7	1.270000	1.270000	30.962147	27.430069
8	1.270000	1.270000	27.430069	30.962147
9	1.270000	1.270000	23.497998	34.042728
10	1.270000	1.270000	19.223274	36.626889
11	1.270000	1.270000	14.668231	38.676947
12	1.270000	1.270000	9.899292	40.163008
13	1.270000	1.270000	4.986000	41.063403
14	1.270000	1.270000	0.000000	41.365000
15	1.270000	1.270000	-4.986000	41.063403
16	1.270000	1.270000	-9.899292	40.163008
17	1.270000	1.270000	-14.668231	38.676947
18	1.270000	1.270000	-19.223274	36.626889
19	1.270000	1.270000	-23.497998	34.042728
20	1.270000	1.270000	-27.430069	30.962147
21	1.270000	1.270000	-30.962147	27.430069
22	1.270000	1.270000	-34.042728	23.497998
23	1.270000	1.270000	-36.626889	19.223274
24	1.270000	1.270000	-38.676947	14.668231
25	1.270000	1.270000	-40.163008	9.899292
26	1.270000	1.270000	-41.063403	4.986000
27	1.270000	1.270000	-41.365000	0.000000
28	1.270000	1.270000	-41.063403	-4.986000
29	1.270000	1.270000	-40.163008	-9.899292
30	1.270000	1.270000	-38.676947	-14.668231
31	1.270000	1.270000	-36.626889	-19.223274
32	1.270000	1.270000	-34.042728	-23.497998
33	1.270000	1.270000	-30.962147	-27.430069
34	1.270000	1.270000	-27.430069	-30.962147
35	1.270000	1.270000	-23.497998	-34.042728
36	1.270000	1.270000	-19.223274	-36.626889
37	1.270000	1.270000	-14.668231	-38.676947
38	1.270000	1.270000	-9.899292	-40.163008
39	1.270000	1.270000	-4.986000	-41.063403
40	1.270000	1.270000	0.000000	-41.365000
41	1.270000	1.270000	4.986000	-41.063403
42	1.270000	1.270000	9.899292	-40.163008

43	1.270000	1.270000	14.668231	-38.676947
44	1.270000	1.270000	19.223274	-36.626889
45	1.270000	1.270000	23.497998	-34.042728
46	1.270000	1.270000	27.430069	-30.962147
47	1.270000	1.270000	30.962147	-27.430069
48	1.270000	1.270000	34.042728	-23.497998
49	1.270000	1.270000	36.626889	-19.223274
50	1.270000	1.270000	38.676947	-14.668231
51	1.270000	1.270000	40.163008	-9.899292
52	1.270000	1.270000	41.063403	-4.986000

NOTE: The positions of the above rebars were computed by LPILE

Minimum spacing between any two bars not equal to zero = 3.725 inches
between bars 44 and 45.

Ratio of bar spacing to maximum aggregate size = 4.97

Concrete Properties:

Compressive Strength of Concrete	=	3000. psi
Modulus of Elasticity of Concrete	=	3122019. psi
Modulus of Rupture of Concrete	=	-410.791918 psi
Compression Strain at Peak Stress	=	0.001634
Tensile Strain at Fracture of Concrete	=	-0.0001160
Maximum Coarse Aggregate Size	=	0.750000 in

Number of Axial Thrust Force Values Determined from Pile-head Loadings = 2

Number	Axial Thrust Force kips
-----	-----
1	50.000
2	60.000

Definitions of Run Messages and Notes:

- C = concrete in section has cracked in tension.
- Y = stress in reinforcing steel has reached yield stress.
- T = ACI 318 criteria for tension-controlled section met, tensile strain in reinforcement exceeds 0.005 while simultaneously compressive strain in concrete more than 0.003. See ACI 318, Section 10.3.4.
- Z = depth of tensile zone in concrete section is less than 10 percent of section depth.

Bending Stiffness (EI) = Computed Bending Moment / Curvature.
 Position of neutral axis is measured from edge of compression side of pile.
 Compressive stresses and strains are positive in sign.
 Tensile stresses and strains are negative in sign.

Axial Thrust Force = 50.000 kips

Bending Max Conc Curvature Stress rad/in. ksi	Bending Max Steel Moment Stress in-kip ksi	Bending Run Stiffness Msg kip-in2	Depth to N Axis in	Max Comp Strain in/in	Max Tens Strain in/in
3.12500E-07	4133.	1.32268E+10	51.4118635	0.00001607	-0.00001206
0.0582089	0.4373731				
6.25000E-07	8246.	1.31938E+10	48.2167530	0.00003014	-0.00002611
0.1086515	0.8168349				
9.37500E-07	12338.	1.31602E+10	47.1517898	0.00004420	-0.00004017
0.1586580	1.1962987				
0.00000125	16408.	1.31264E+10	46.6193499	0.00005827	-0.00005423
0.2082285	1.5757639				
0.00000156	20457.	1.30926E+10	46.2999178	0.00007234	-0.00006828
0.2573630	1.9552307				
0.00000188	24485.	1.30588E+10	46.0869891	0.00008641	-0.00008234
0.3060614	2.3346988				
0.00000219	28492.	1.30250E+10	45.9349193	0.0001005	-0.00009639
0.3543238	2.7141683				
0.00000250	32478.	1.29911E+10	45.8208865	0.0001146	-0.0001104
0.4021500	3.0936393				
0.00000281	32478.	1.15477E+10	25.4806453	0.00007166	-0.0001815
0.2530002	-5.0054380 C				
0.00000313	32478.	1.03929E+10	25.2408644	0.00007888	-0.0002024
0.2778024	-5.5833279 C				
0.00000344	32478.	9448087667.	25.0461187	0.00008610	-0.0002233
0.3025094	-6.1610744 C				
0.00000375	32478.	8660747028.	24.8851540	0.00009332	-0.0002442
0.3271209	-6.7386770 C				
0.00000406	32478.	7994535718.	24.7501790	0.0001005	-0.0002651
0.3516369	-7.3161352 C				
0.00000438	32478.	7423497453.	24.6311541	0.0001078	-0.0002860
0.3759898	-7.8940161 C				
0.00000469	32478.	6928597622.	24.5290934	0.0001150	-0.0003069
0.4002477	-8.4717482 C				
0.00000500	32478.	6495560271.	24.4408257	0.0001222	-0.0003278
0.4244107	-9.0493303 C				
0.00000531	32478.	6113468490.	24.3639204	0.0001294	-0.0003487

0.4484784	-9.6267616	C					
0.00000563	32478.		5773831352.	24.2964874	0.0001367	-0.0003696	
0.4724507	-10.2040417	C					
0.00000594	32478.		5469945491.	24.2370342	0.0001439	-0.0003905	
0.4963275	-10.7811700	C					
0.00000625	32478.		5196448217.	24.1843671	0.0001512	-0.0004113	
0.5201084	-11.3581460	C					
0.00000656	32478.		4948998302.	24.1375196	0.0001584	-0.0004322	
0.5437935	-11.9349689	C					
0.00000688	32478.		4724043833.	24.0957010	0.0001657	-0.0004531	
0.5673823	-12.5116383	C					
0.00000719	32478.		4518650623.	24.0582582	0.0001729	-0.0004740	
0.5908749	-13.0881537	C					
0.00000750	32478.		4330373514.	24.0246469	0.0001802	-0.0004948	
0.6142710	-13.6645143	C					
0.00000781	32478.		4157158573.	23.9944099	0.0001875	-0.0005157	
0.6375703	-14.2407196	C					
0.00000813	32478.		3997267859.	23.9671605	0.0001947	-0.0005365	
0.6607727	-14.8167690	C					
0.00000844	32478.		3849220901.	23.9425690	0.0002020	-0.0005574	
0.6838781	-15.3926620	C					
0.00000875	32478.		3711748726.	23.9203531	0.0002093	-0.0005782	
0.7068862	-15.9683979	C					
0.00000906	32478.		3583757391.	23.9002694	0.0002166	-0.0005990	
0.7297967	-16.5439760	C					
0.00000938	32478.		3464298811.	23.8821069	0.0002239	-0.0006199	
0.7526097	-17.1193959	C					
0.00000969	32478.		3352547237.	23.8656818	0.0002312	-0.0006407	
0.7753247	-17.6946569	C					
0.00001000	32478.		3247780136.	23.8508335	0.0002385	-0.0006615	
0.7979417	-18.2697583	C					
0.00001031	33210.		3220384122.	23.8369015	0.0002458	-0.0006823	
0.8204437	-18.8448548	C					
0.00001063	34174.		3216332123.	23.8242986	0.0002531	-0.0007031	
0.8428469	-19.4197942	C					
0.00001094	35136.		3212458852.	23.8129444	0.0002605	-0.0007239	
0.8651524	-19.9945660	C					
0.00001125	36098.		3208749232.	23.8027371	0.0002678	-0.0007447	
0.8873598	-20.5691695	C					
0.00001156	37060.		3205189816.	23.7935857	0.0002751	-0.0007655	
0.9094690	-21.1436039	C					
0.00001188	38021.		3201768572.	23.7854088	0.0002825	-0.0007863	
0.9314797	-21.7178686	C					
0.00001219	38981.		3198474699.	23.7781335	0.0002898	-0.0008071	
0.9533918	-22.2919628	C					
0.00001281	40900.		3192231131.	23.7660315	0.0003045	-0.0008486	
0.9969191	-23.4396370	C					
0.00001344	42817.		3186392048.	23.7568271	0.0003192	-0.0008901	
1.0400493	-24.5866208	C					
0.00001406	44731.		3180902293.	23.7501481	0.0003340	-0.0009316	

1.0827806	-25.7329083	C					
0.00001469	46643.		3175716081.	23.7456862	0.0003488	-0.0009731	
1.1251112	-26.8784936	C					
0.00001531	48553.		3170795084.	23.7431835	0.0003636	-0.0010146	
1.1670393	-28.0233707	C					
0.00001594	50460.		3166106972.	23.7424226	0.0003784	-0.0010560	
1.2085633	-29.1675334	C					
0.00001656	52364.		3161624276.	23.7432193	0.0003932	-0.0010974	
1.2496812	-30.3109756	C					
0.00001719	54266.		3157323513.	23.7454164	0.0004081	-0.0011388	
1.2903912	-31.4536909	C					
0.00001781	56166.		3153184476.	23.7488790	0.0004230	-0.0011801	
1.3306915	-32.5956728	C					
0.00001844	58063.		3149189683.	23.7534904	0.0004380	-0.0012214	
1.3705802	-33.7369150	C					
0.00001906	59958.		3145323931.	23.7591497	0.0004529	-0.0012627	
1.4100554	-34.8774107	C					
0.00001969	61850.		3141573932.	23.7657688	0.0004679	-0.0013040	
1.4491150	-36.0171532	C					
0.00002031	63739.		3137928020.	23.7732708	0.0004829	-0.0013452	
1.4877573	-37.1561358	C					
0.00002094	65626.		3134375906.	23.7815880	0.0004979	-0.0013864	
1.5259801	-38.2943514	C					
0.00002156	67510.		3130908480.	23.7906609	0.0005130	-0.0014276	
1.5637816	-39.4317929	C					
0.00002219	69392.		3127517645.	23.8004367	0.0005281	-0.0014688	
1.6011595	-40.5684533	C					
0.00002281	71271.		3124196176.	23.8108687	0.0005432	-0.0015099	
1.6381119	-41.7043252	C					
0.00002344	73147.		3120937605.	23.8219154	0.0005583	-0.0015510	
1.6746367	-42.8394012	C					
0.00002406	75021.		3117736122.	23.8335396	0.0005735	-0.0015921	
1.7107318	-43.9736737	C					
0.00002469	76891.		3114586490.	23.8457082	0.0005887	-0.0016332	
1.7463949	-45.1071351	C					
0.00002531	78759.		3111485100.	23.8580356	0.0006039	-0.0016742	
1.7816029	-46.2400388	C					
0.00002594	80625.		3108427425.	23.8706455	0.0006191	-0.0017152	
1.8163618	-47.3722832	C					
0.00002656	82487.		3105409056.	23.8836963	0.0006344	-0.0017562	
1.8506802	-48.5037308	C					
0.00002719	84347.		3102426454.	23.8971671	0.0006497	-0.0017972	
1.8845558	-49.6343741	C					
0.00002781	86204.		3099476385.	23.9110391	0.0006650	-0.0018381	
1.9179865	-50.7642055	C					
0.00002844	88058.		3096555886.	23.9252953	0.0006804	-0.0018790	
1.9509699	-51.8932173	C					
0.00002906	89910.		3093662235.	23.9399203	0.0006958	-0.0019199	
1.9835038	-53.0214015	C					
0.00002969	91758.		3090792930.	23.9549001	0.0007112	-0.0019607	

2.0155859	-54.1487500	C					
0.00003031	93603.		3087945658.	23.9702221	0.0007266	-0.0020015	
2.0472138	-55.2752547	C					
0.00003094	95446.		3085118283.	23.9858749	0.0007421	-0.0020423	
2.0783850	-56.4009072	C					
0.00003156	97285.		3082308825.	24.0018480	0.0007576	-0.0020831	
2.1090973	-57.5256990	C					
0.00003219	99122.		3079515442.	24.0181321	0.0007731	-0.0021238	
2.1393481	-58.6496216	C					
0.00003281	100955.		3076736422.	24.0347186	0.0007886	-0.0021645	
2.1691350	-59.7726661	C					
0.00003344	102722.		3072066409.	24.0464089	0.0008041	-0.0022053	
2.1981257	-60.0000000	CY					
0.00003406	104224.		3059776766.	24.0371483	0.0008188	-0.0022469	
2.2252975	-60.0000000	CY					
0.00003469	105576.		3043623080.	24.0169539	0.0008331	-0.0022888	
2.2512840	-60.0000000	CY					
0.00003531	106822.		3025053564.	23.9896677	0.0008471	-0.0023310	
2.2763300	-60.0000000	CY					
0.00003594	108003.		3005288831.	23.9586915	0.0008610	-0.0023734	
2.3006542	-60.0000000	CY					
0.00003656	109058.		2982775363.	23.9191734	0.0008745	-0.0024161	
2.3239507	-60.0000000	CY					
0.00003719	110094.		2960514554.	23.8801159	0.0008880	-0.0024588	
2.3467973	-60.0000000	CY					
0.00003969	113678.		2864322451.	23.6897642	0.0009402	-0.0026317	
2.4313141	-60.0000000	CY					
0.00004219	116636.		2764711075.	23.4771094	0.0009904	-0.0028064	
2.5071644	-60.0000000	CY					
0.00004469	119086.		2664859721.	23.2522701	0.0010391	-0.0029828	
2.5753691	-60.0000000	CY					
0.00004719	121219.		2568874925.	23.0301153	0.0010867	-0.0031601	
2.6372234	-60.0000000	CY					
0.00004969	123155.		2478591867.	22.8127500	0.0011335	-0.0033384	
2.6931869	-60.0000000	CY					
0.00005219	124735.		2390124959.	22.5846102	0.0011786	-0.0035182	
2.7426941	-60.0000000	CY					
0.00005469	126257.		2308705998.	22.3772821	0.0012238	-0.0036981	
2.7878456	-60.0000000	CY					
0.00005719	127543.		2230265232.	22.1700992	0.0012679	-0.0038790	
2.8277406	-60.0000000	CY					
0.00005969	128717.		2156511452.	21.9699205	0.0013113	-0.0040605	
2.8629994	-60.0000000	CY					
0.00006219	129846.		2087980606.	21.7794794	0.0013544	-0.0042425	
2.8939525	-60.0000000	CY					
0.00006469	130780.		2021726391.	21.5874684	0.0013964	-0.0044254	
2.9203179	-60.0000000	CY					
0.00006719	131655.		1959510756.	21.4074401	0.0014383	-0.0046086	
2.9428429	-60.0000000	CY					
0.00006969	132521.		1901641098.	21.2432705	0.0014804	-0.0047915	

2.9617198	-60.0000000	CY					
0.00007219	133320.	1846860500.	21.0831144	0.0015219	-0.0049749		
2.9766540	-60.0000000	CY					
0.00007469	133958.	1793576821.	20.9133301	0.0015620	-0.0051599		
2.9875574	-60.0000000	CY					
0.00007719	134581.	1743554660.	20.7561572	0.0016021	-0.0053448		
2.9950766	-60.0000000	CY					
0.00007969	135197.	1696585652.	20.6113448	0.0016425	-0.0055294		
2.9991834	-60.0000000	CY					
0.00008219	135805.	1652384149.	20.4779112	0.0016830	-0.0057138		
2.9974066	-60.0000000	CY					
0.00008469	136345.	1609980727.	20.3474440	0.0017232	-0.0058987		
2.9993134	-60.0000000	CY					
0.00008719	136802.	1569056480.	20.2152018	0.0017625	-0.0060844		
2.9976630	-60.0000000	CY					
0.00008969	137222.	1530004594.	20.0823212	0.0018011	-0.0062707		
2.9986834	-60.0000000	CY					
0.00009219	137638.	1493022660.	19.9584763	0.0018399	-0.0064570		
2.9999987	-60.0000000	CY					
0.00009469	138047.	1457925886.	19.8434937	0.0018789	-0.0066429		
2.9968548	-60.0000000	CY					
0.00009719	138453.	1424594711.	19.7360332	0.0019181	-0.0068288		
2.9994753	-60.0000000	CY					
0.00009969	138847.	1392819817.	19.6347724	0.0019573	-0.0070145		
2.9979712	-60.0000000	CY					
0.0001022	139195.	1362150107.	19.5345001	0.0019962	-0.0072007		
2.9970488	-60.0000000	CY					
0.0001047	139490.	1332437388.	19.4333053	0.0020344	-0.0073875		
2.9993991	-60.0000000	CY					
0.0001072	139769.	1303963750.	19.3352502	0.0020725	-0.0075744		
2.9989969	-60.0000000	CY					
0.0001097	140034.	1276659672.	19.2353697	0.0021099	-0.0077620		
2.9950087	-60.0000000	CY					
0.0001122	140297.	1250556112.	19.1409092	0.0021474	-0.0079495		
2.9980623	-60.0000000	CY					
0.0001147	140558.	1225574252.	19.0515285	0.0021850	-0.0081369		
2.9997017	-60.0000000	CY					
0.0001172	140817.	1201636582.	18.9671342	0.0022227	-0.0083242		
2.9981151	-60.0000000	CY					
0.0001197	141073.	1178675909.	18.8874869	0.0022606	-0.0085113		
2.9939870	-60.0000000	CY					
0.0001222	141327.	1156642701.	18.8118782	0.0022986	-0.0086983		
2.9972142	-60.0000000	CY					
0.0001247	141560.	1135315907.	18.7367025	0.0023362	-0.0088856		
2.9991957	-60.0000000	CY					
0.0001272	141773.	1114674527.	18.6623110	0.0023736	-0.0090733		
2.9999821	-60.0000000	CY					
0.0001297	141973.	1094732469.	18.5902929	0.0024109	-0.0092609		
2.9961161	-60.0000000	CY					
0.0001322	142146.	1075339457.	18.5173926	0.0024478	-0.0094491		

2.9931504	-60.0000000	CY				
0.0001347	142319.	1056658163.	18.4474744	0.0024846	-0.0096372	
2.9962110	-60.0000000	CY				
0.0001372	142475.	1038539877.	18.3752204	0.0025209	-0.0098260	
2.9983142	60.0000000	CY				
0.0001522	143317.	941711132.	18.0258640	0.0027433	-0.0109536	
2.9966630	60.0000000	CY				
0.0001672	143929.	860886364.	17.7941372	0.0029750	-0.0120719	
2.9912833	60.0000000	CY				
0.0001822	144239.	791704513.	17.5949364	0.0032056	-0.0131913	
2.9970264	60.0000000	CYT				
0.0001972	144475.	732680194.	17.4345837	0.0034379	-0.0143090	
2.9960735	60.0000000	CYT				
0.0002122	144661.	681760573.	17.3146336	0.0036739	-0.0154229	
2.9926847	60.0000000	CYT				
0.0002272	144661.	636747495.	17.3285698	0.0039368	-0.0165100	
2.9973974	60.0000000	CYT				

Axial Thrust Force = 60.000 kips

Bending Max Conc Curvature Stress rad/in. ksi	Bending Max Steel Moment Stress in-kip ksi	Bending Run Stiffness Msg kip-in2	Depth to N Axis in	Max Comp Strain in/in	Max Tens Strain in/in
3.12500E-07	4133.	1.32261E+10	52.6943414	0.00001647	-0.00001166
0.0596664	0.4489956				
6.25000E-07	8246.	1.31934E+10	48.8601218	0.00003054	-0.00002571
0.1101012	0.8284960				
9.37500E-07	12337.	1.31599E+10	47.5821494	0.00004461	-0.00003977
0.1601000	1.2079991				
0.00000125	16408.	1.31262E+10	46.9432161	0.00005868	-0.00005382
0.2096627	1.5875041				
0.00000156	20457.	1.30925E+10	46.5598945	0.00007275	-0.00006788
0.2587894	1.9670108				
0.00000188	24485.	1.30587E+10	46.3043787	0.00008682	-0.00008193
0.3074799	2.3465193				
0.00000219	28492.	1.30249E+10	46.1218942	0.0001009	-0.00009598
0.3557343	2.7260295				
0.00000250	32478.	1.29910E+10	45.9850543	0.0001150	-0.0001100
0.4035526	3.1055414				
0.00000281	32478.	1.15476E+10	25.9701323	0.00007304	-0.0001801
0.2578366	-4.9655142 C				
0.00000313	32478.	1.03928E+10	25.6910269	0.00008028	-0.0002010
0.2827221	-5.5425319 C				
0.00000344	32478.	9448014933.	25.4572136	0.00008751	-0.0002219

0.3074289	-6.1200934 C					
0.00000375	32478.	8660680356.	25.2624336	0.00009473	-0.0002428	
0.3320237	-6.6976478 C					
0.00000406	32478.	7994474174.	25.0988475	0.0001020	-0.0002637	
0.3565228	-7.2750576 C					
0.00000438	32478.	7423440305.	24.9597748	0.0001092	-0.0002846	
0.3809261	-7.8523223 C					
0.00000469	32478.	6928544284.	24.8403166	0.0001164	-0.0003054	
0.4052334	-8.4294413 C					
0.00000500	32478.	6495510267.	24.7362809	0.0001237	-0.0003263	
0.4294358	-9.0064893 C					
0.00000531	32478.	6113421427.	24.6423416	0.0001309	-0.0003472	
0.4534861	-9.5838674 C					
0.00000563	32478.	5773786904.	24.5597686	0.0001381	-0.0003681	
0.4774411	-10.1610940 C					
0.00000594	32478.	5469903382.	24.4867705	0.0001454	-0.0003890	
0.5013004	-10.7381686 C					
0.00000625	32478.	5196408213.	24.4219143	0.0001526	-0.0004099	
0.5250639	-11.3150906 C					
0.00000656	32478.	4948960203.	24.3640398	0.0001599	-0.0004307	
0.5487314	-11.8918593 C					
0.00000688	32478.	4724007467.	24.3121979	0.0001671	-0.0004516	
0.5723027	-12.4684743 C					
0.00000719	32478.	4518615838.	24.2656046	0.0001744	-0.0004725	
0.5957776	-13.0449349 C					
0.00000750	32478.	4330340178.	24.2236064	0.0001817	-0.0004933	
0.6191560	-13.6212406 C					
0.00000781	32478.	4157126571.	24.1856546	0.0001890	-0.0005142	
0.6424376	-14.1973907 C					
0.00000813	32478.	3997237087.	24.1512847	0.0001962	-0.0005350	
0.6656223	-14.7733848 C					
0.00000844	32478.	3849191269.	24.1201014	0.0002035	-0.0005559	
0.6887098	-15.3492220 C					
0.00000875	32478.	3711720152.	24.0917655	0.0002108	-0.0005767	
0.7117000	-15.9249020 C					
0.00000906	32478.	3583729802.	24.0659847	0.0002181	-0.0005975	
0.7345926	-16.5004240 C					
0.00000938	32478.	3464272142.	24.0425059	0.0002254	-0.0006184	
0.7573876	-17.0757874 C					
0.00000969	32478.	3352521428.	24.0211085	0.0002327	-0.0006392	
0.7800846	-17.6509917 C					
0.00001000	32478.	3247755133.	24.0015994	0.0002400	-0.0006600	
0.8026835	-18.2260361 C					
0.00001031	33426.	3241311449.	23.9838091	0.0002473	-0.0006808	
0.8251840	-18.8009202 C					
0.00001063	34389.	3236628552.	23.9675881	0.0002547	-0.0007016	
0.8475861	-19.3756432 C					
0.00001094	35352.	3232160196.	23.9528037	0.0002620	-0.0007224	
0.8698894	-19.9502044 C					
0.00001125	36314.	3227888327.	23.9393382	0.0002693	-0.0007432	

0.8920938	-20.5246034	C					
0.00001156	37275.		3223796840.	23.9270866	0.0002767	-0.0007640	
0.9141991	-21.0988394	C					
0.00001188	38236.		3219871327.	23.9159550	0.0002840	-0.0007847	
0.9362051	-21.6729117	C					
0.00001219	39196.		3216098854.	23.9058591	0.0002914	-0.0008055	
0.9581115	-22.2468198	C					
0.00001281	41115.		3208967600.	23.8884782	0.0003061	-0.0008471	
1.0016249	-23.3941404	C					
0.00001344	43031.		3202322778.	23.8744209	0.0003208	-0.0008886	
1.0447377	-24.5407959	C					
0.00001406	44945.		3196098345.	23.8632573	0.0003356	-0.0009300	
1.0874481	-25.6867810	C					
0.00001469	46857.		3190239485.	23.8546309	0.0003504	-0.0009715	
1.1297545	-26.8320900	C					
0.00001531	48766.		3184700252.	23.8481694	0.0003652	-0.0010129	
1.1716518	-27.9767504	C					
0.00001594	50672.		3179441981.	23.8435834	0.0003800	-0.0010544	
1.2131364	-29.1207781	C					
0.00001656	52577.		3174431949.	23.8408464	0.0003949	-0.0010958	
1.2542146	-30.2640840	C					
0.00001719	54478.		3169641995.	23.8397696	0.0004097	-0.0011371	
1.2948848	-31.4066617	C					
0.00001781	56377.		3165047895.	23.8401906	0.0004247	-0.0011785	
1.3351449	-32.5485046	C					
0.00001844	58274.		3160628694.	23.8419693	0.0004396	-0.0012198	
1.3749931	-33.6896064	C					
0.00001906	60168.		3156366170.	23.8449841	0.0004545	-0.0012611	
1.4144275	-34.8299603	C					
0.00001969	62060.		3152244401.	23.8491293	0.0004695	-0.0013023	
1.4534461	-35.9695596	C					
0.00002031	63949.		3148249615.	23.8541333	0.0004845	-0.0013436	
1.4920376	-37.1085027	C					
0.00002094	65835.		3144369480.	23.8600165	0.0004996	-0.0013848	
1.5302048	-38.2467306	C					
0.00002156	67719.		3140593084.	23.8667457	0.0005146	-0.0014260	
1.5679478	-39.3842162	C					
0.00002219	69600.		3136910758.	23.8742596	0.0005297	-0.0014672	
1.6052646	-40.5209529	C					
0.00002281	71479.		3133313881.	23.8825040	0.0005448	-0.0015083	
1.6421531	-41.6569340	C					
0.00002344	73355.		3129794736.	23.8914304	0.0005600	-0.0015494	
1.6786113	-42.7921527	C					
0.00002406	75228.		3126346398.	23.9009956	0.0005751	-0.0015905	
1.7146371	-43.9266020	C					
0.00002469	77098.		3122962627.	23.9111610	0.0005903	-0.0016316	
1.7502285	-45.0602749	C					
0.00002531	78966.		3119637789.	23.9218919	0.0006055	-0.0016726	
1.7853834	-46.1931643	C					
0.00002594	80831.		3116366778.	23.9331571	0.0006208	-0.0017136	

1.8200995	-47.3252627	C					
0.00002656	82693.		3113144958.	23.9449285	0.0006360	-0.0017546	
1.8543748	-48.4565628	C					
0.00002719	84552.		3109968105.	23.9571808	0.0006513	-0.0017955	
1.8882071	-49.5870570	C					
0.00002781	86409.		3106832362.	23.9698911	0.0006667	-0.0018365	
1.9215940	-50.7167378	C					
0.00002844	88262.		3103734197.	23.9830386	0.0006820	-0.0018774	
1.9545334	-51.8455972	C					
0.00002906	90113.		3100670371.	23.9966045	0.0006974	-0.0019182	
1.9870229	-52.9736273	C					
0.00002969	91961.		3097637905.	24.0105718	0.0007128	-0.0019591	
2.0190602	-54.1008201	C					
0.00003031	93806.		3094634049.	24.0249250	0.0007283	-0.0019999	
2.0506430	-55.2271674	C					
0.00003094	95648.		3091656267.	24.0396501	0.0007437	-0.0020406	
2.0817688	-56.3526607	C					
0.00003156	97487.		3088702208.	24.0547343	0.0007592	-0.0020814	
2.1124353	-57.4772915	C					
0.00003219	99323.		3085769691.	24.0701659	0.0007748	-0.0021221	
2.1426399	-58.6010513	C					
0.00003281	101156.		3082856687.	24.0859344	0.0007903	-0.0021628	
2.1723801	-59.7239311	C					
0.00003344	102931.		3078310518.	24.0975298	0.0008058	-0.0022036	
2.2013684	-60.0000000	CY					
0.00003406	104443.		3066213417.	24.0883778	0.0008205	-0.0022451	
2.2285511	-60.0000000	CY					
0.00003469	105798.		3050046797.	24.0677322	0.0008348	-0.0022870	
2.2545125	-60.0000000	CY					
0.00003531	107049.		3031470375.	24.0400267	0.0008489	-0.0023292	
2.2795344	-60.0000000	CY					
0.00003594	108231.		3011636089.	24.0084615	0.0008628	-0.0023716	
2.3038225	-60.0000000	CY					
0.00003656	109292.		2989170038.	23.9687153	0.0008764	-0.0024143	
2.3271054	-60.0000000	CY					
0.00003719	110330.		2966865339.	23.9291743	0.0008899	-0.0024570	
2.3499203	-60.0000000	CY					
0.00003969	113926.		2870579580.	23.7395839	0.0009422	-0.0026297	
2.4344716	-60.0000000	CY					
0.00004219	116885.		2770615346.	23.5245660	0.0009924	-0.0028044	
2.5101404	-60.0000000	CY					
0.00004469	119341.		2670572076.	23.2980696	0.0010411	-0.0029807	
2.5781926	-60.0000000	CY					
0.00004719	121481.		2574423223.	23.0745023	0.0010888	-0.0031580	
2.6398937	-60.0000000	CY					
0.00004969	123418.		2483891716.	22.8577005	0.0011357	-0.0033361	
2.6958048	-60.0000000	CY					
0.00005219	125005.		2395297122.	22.6284349	0.0011809	-0.0035160	
2.7451484	-60.0000000	CY					
0.00005469	126526.		2313625240.	22.4194170	0.0012261	-0.0036958	

2.7900903	-60.0000000	CY					
0.00005719	127819.	2235079894.	22.2113755	0.0012702	-0.0038767		
2.8298118	-60.0000000	CY					
0.00005969	128994.	2161158323.	22.0122762	0.0013139	-0.0040580		
2.8649766	-60.0000000	CY					
0.00006219	130126.	2092484795.	21.8208183	0.0013570	-0.0042399		
2.8957203	-60.0000000	CY					
0.00006469	131063.	2026099390.	21.6278628	0.0013991	-0.0044228		
2.9218743	-60.0000000	CY					
0.00006719	131937.	1963708931.	21.4465937	0.0014409	-0.0046059		
2.9441688	-60.0000000	CY					
0.00006969	132802.	1905676759.	21.2812811	0.0014830	-0.0047888		
2.9628110	-60.0000000	CY					
0.00007219	133610.	1850878607.	21.1234540	0.0015248	-0.0049720		
2.9775880	-60.0000000	CY					
0.00007469	134248.	1797456332.	20.9526356	0.0015649	-0.0051570		
2.9882421	-60.0000000	CY					
0.00007719	134870.	1747298242.	20.7944492	0.0016051	-0.0053418		
2.9955066	-60.0000000	CY					
0.00007969	135485.	1700201668.	20.6486959	0.0016454	-0.0055264		
2.9993538	-60.0000000	CY					
0.00008219	136093.	1655879057.	20.5144085	0.0016860	-0.0057108		
2.9967835	-60.0000000	CY					
0.00008469	136635.	1613401961.	20.3835028	0.0017262	-0.0058956		
2.9994726	-60.0000000	CY					
0.00008719	137098.	1572444958.	20.2535817	0.0017659	-0.0060810		
2.9969679	-60.0000000	CY					
0.00008969	137517.	1533295341.	20.1201622	0.0018045	-0.0062673		
2.9989316	-60.0000000	CY					
0.00009219	137932.	1496215017.	19.9955765	0.0018433	-0.0064535		
2.9995094	-60.0000000	CY					
0.00009469	138341.	1461026706.	19.8798546	0.0018824	-0.0066395		
2.9972509	-60.0000000	CY					
0.00009719	138746.	1427609342.	19.7716799	0.0019216	-0.0068253		
2.9996301	-60.0000000	CY					
0.00009969	139139.	1395754516.	19.6698698	0.0019608	-0.0070110		
2.9972445	-60.0000000	CY					
0.0001022	139492.	1365059006.	19.5696688	0.0019998	-0.0071971		
2.9974483	-60.0000000	CY					
0.0001047	139786.	1335271856.	19.4678085	0.0020380	-0.0073838		
2.9995722	-60.0000000	CY					
0.0001072	140067.	1306746410.	19.3706131	0.0020763	-0.0075706		
2.9982096	-60.0000000	CY					
0.0001097	140334.	1279396670.	19.2720781	0.0021139	-0.0077580		
2.9955937	-60.0000000	CY					
0.0001122	140597.	1253228207.	19.1769773	0.0021514	-0.0079455		
2.9984216	-60.0000000	CY					
0.0001147	140857.	1228184215.	19.0869890	0.0021890	-0.0081328		
2.9998321	-60.0000000	CY					
0.0001172	141115.	1204184734.	19.0021096	0.0022268	-0.0083201		

2.9972638	-60.0000000	CY					
0.0001197	141371.		1181167671.	18.9218867	0.0022647	-0.0085072	
2.9946449	-60.0000000	CY					
0.0001222	141625.		1159080335.	18.8457295	0.0023027	-0.0086942	
2.9976579	-60.0000000	CY					
0.0001247	141860.		1137726930.	18.7705409	0.0023405	-0.0088814	
2.9994294	-60.0000000	CY					
0.0001272	142073.		1117035129.	18.6956324	0.0023779	-0.0090690	
2.9999490	-60.0000000	CY					
0.0001297	142276.		1097067010.	18.6237155	0.0024153	-0.0092566	
2.9952158	-60.0000000	CY					
0.0001322	142449.		1077627668.	18.5502852	0.0024521	-0.0094448	
2.9938922	-60.0000000	CY					
0.0001347	142621.		1058903914.	18.4801221	0.0024890	-0.0096328	
2.9967632	-60.0000000	CY					
0.0001372	142779.		1040759315.	18.4113866	0.0025258	-0.0098211	
2.9987185	60.0000000	CY					
0.0001522	143614.		943664950.	18.0610103	0.0027487	-0.0109482	
2.9972861	60.0000000	CY					
0.0001672	144223.		862640565.	17.8286565	0.0029807	-0.0120661	
2.9923884	60.0000000	CY					
0.0001822	144533.		793318756.	17.6294681	0.0032119	-0.0131850	
2.9957196	60.0000000	CYT					
0.0001972	144769.		734168427.	17.4740460	0.0034457	-0.0143012	
2.9970394	60.0000000	CYT					
0.0002122	144953.		683134768.	17.3527547	0.0036820	-0.0154148	
2.9910045	60.0000000	CYT					
0.0002272	144953.		638030959.	17.3669403	0.0039456	-0.0165013	
2.9982550	60.0000000	CYT					

Summary of Results for Nominal Moment Capacity for Section 1

Moment values interpolated at maximum compressive strain = 0.003
or maximum developed moment if pile fails at smaller strains.

Load No.	Axial Thrust kips	Nominal Mom. Cap. in-kip	Max. Comp. Strain
1	50.000	143963.018	0.00300000
2	60.000	144248.569	0.00300000

Note that the values of moment capacity in the table above are not factored by a strength reduction factor (ϕ -factor).

In ACI 318, the value of the strength reduction factor depends on whether the transverse reinforcing steel bars are tied hoops (0.65) or spirals (0.75).

The above values should be multiplied by the appropriate strength reduction factor to compute ultimate moment capacity according to ACI 318, or the value required by the design standard being followed.

The following table presents factored moment capacities and corresponding bending stiffnesses computed for common resistance factor values used for reinforced concrete sections.

Axial Stiff. Load Ult Mom No. kip-in ²	Resist. Factor	Nominal Ax. Thrust kips	Nominal Moment Cap in-kips	Ult. (Fac) Ax. Thrust kips	Ult. (Fac) Moment Cap in-kips	Bend. at
1 3.0880E+09	0.65	50.000000	143963.	32.500000	93576.	
2 3.0947E+09	0.65	60.000000	144249.	39.000000	93762.	
1 3.0058E+09	0.75	50.000000	143963.	37.500000	107972.	
2 3.0124E+09	0.75	60.000000	144249.	45.000000	108186.	
1 2.1049E+09	0.90	50.000000	143963.	45.000000	129567.	
2 2.1108E+09	0.90	60.000000	144249.	54.000000	129824.	

 Layering Correction Equivalent Depths of Soil & Rock Layers

Layer No.	Top of Layer Below Pile Head ft	Equivalent Top Depth Below Grnd Surf ft	Same Layer Type As Layer Above	Layer is Rock or is Below Rock Layer	F0 Integral for Layer lbs	F1 Integral for Layer lbs
1	0.00	0.00	N.A.	No	0.00	14305.
2	2.0000	2.1083	Yes	No	14305.	35208.
3	3.7500	3.8808	Yes	No	49513.	39072.
4	5.0000	5.1428	Yes	No	88585.	275828.
5	10.0000	10.1666	Yes	No	364413.	1335581.
6	25.0000	31.7642	Yes	No	1699994.	1326211.
7	35.0000	2112.	No	No	3026205.	14468.

4.7000	0.3395	4.50E+07	5143.	-0.00300	0.00	3.20E+12
-913.2894	15171.	0.00				
5.1700	0.3228	4.50E+07	-126.2017	-0.00292	0.00	3.20E+12
-955.1717	16688.	0.00				
5.6400	0.3065	4.50E+07	-5610.	-0.00284	0.00	3.20E+12
-989.5109	18206.	0.00				
6.1100	0.2907	4.50E+07	-11268.	-0.00276	0.00	3.20E+12
-1017.	19723.	0.00				
6.5800	0.2754	4.49E+07	-17059.	-0.00268	0.00	3.20E+12
-1037.	21240.	0.00				
7.0500	0.2604	4.48E+07	-22947.	-0.00261	0.00	3.20E+12
-1051.	22757.	0.00				
7.5200	0.2460	4.46E+07	-28896.	-0.00253	0.00	3.20E+12
-1059.	24274.	0.00				
7.9900	0.2319	4.45E+07	-34872.	-0.00245	0.00	3.20E+12
-1061.	25791.	0.00				
8.4600	0.2184	4.43E+07	-40844.	-0.00237	0.00	3.20E+12
-1057.	27308.	0.00				
8.9300	0.2052	4.40E+07	-46783.	-0.00229	0.00	3.20E+12
-1049.	28825.	0.00				
9.4000	0.1925	4.37E+07	-52661.	-0.00222	0.00	3.20E+12
-1036.	30343.	0.00				
9.8700	0.1802	4.34E+07	-58453.	-0.00214	0.00	3.20E+12
-1018.	31860.	0.00				
10.3400	0.1684	4.31E+07	-64134.	-0.00206	0.00	3.20E+12
-996.4315	33377.	0.00				
10.8100	0.1570	4.27E+07	-69682.	-0.00199	0.00	3.20E+12
-971.0939	34894.	0.00				
11.2800	0.1460	4.23E+07	-75078.	-0.00191	0.00	3.20E+12
-942.3514	36411.	0.00				
11.7500	0.1354	4.18E+07	-80303.	-0.00184	0.00	3.21E+12
-910.5175	37928.	0.00				
12.2200	0.1252	4.14E+07	-85341.	-0.00176	0.00	3.21E+12
-875.8992	39445.	0.00				
12.6900	0.1155	4.09E+07	-90176.	-0.00169	0.00	3.21E+12
-838.7962	40962.	0.00				
13.1600	0.1061	4.04E+07	-94796.	-0.00162	0.00	3.21E+12
-799.5011	42480.	0.00				
13.6300	0.09721	3.98E+07	-99189.	-0.00155	0.00	3.21E+12
-758.2988	43997.	0.00				
14.1000	0.08866	3.92E+07	-103345.	-0.00148	0.00	3.22E+12
-715.4660	45514.	0.00				
14.5700	0.08050	3.87E+07	-107256.	-0.00141	0.00	3.22E+12
-671.2714	47031.	0.00				
15.0400	0.07272	3.80E+07	-110914.	-0.00135	0.00	3.22E+12
-625.9755	48548.	0.00				
15.5100	0.06532	3.74E+07	-114314.	-0.00128	0.00	3.22E+12
-579.8300	50065.	0.00				
15.9800	0.05829	3.67E+07	-117038.	-0.00121	0.00	3.23E+12
-386.1107	37361.	0.00				

16.4500	0.05162	3.61E+07	-119120.	-0.00115	0.00	3.23E+12
-351.9783	38460.	0.00				
16.9200	0.04530	3.54E+07	-121008.	-0.00109	0.00	3.23E+12
-317.7398	39559.	0.00				
17.3900	0.03933	3.47E+07	-122704.	-0.00103	0.00	3.24E+12
-283.5525	40658.	0.00				
17.8600	0.03371	3.40E+07	-124207.	-9.68E-04	0.00	3.24E+12
-249.5676	41757.	0.00				
18.3300	0.02842	3.33E+07	-125520.	-9.09E-04	0.00	3.24E+12
-215.9298	42856.	0.00				
18.8000	0.02345	3.26E+07	-126644.	-8.52E-04	0.00	3.25E+12
-182.7779	43954.	0.00				
19.2700	0.01881	3.19E+07	-127584.	-8.17E-04	0.00	1.30E+13
-150.2432	45053.	0.00				
19.7400	0.01424	3.12E+07	-128336.	-8.03E-04	0.00	1.30E+13
-116.5373	46152.	0.00				
20.2100	0.00975	3.04E+07	-128895.	-7.90E-04	0.00	1.30E+13
-81.6907	47251.	0.00				
20.6800	0.00533	2.97E+07	-129254.	-7.77E-04	0.00	1.30E+13
-45.7325	48350.	0.00				
21.1500	9.91E-04	2.90E+07	-129408.	-7.64E-04	0.00	1.30E+13
-8.6903	49449.	0.00				
21.6200	-0.00328	2.83E+07	-129349.	-7.51E-04	0.00	1.30E+13
29.4098	50548.	0.00				
22.0900	-0.00749	2.75E+07	-129073.	-7.39E-04	0.00	1.30E+13
68.5430	51646.	0.00				
22.5600	-0.01162	2.68E+07	-128573.	-7.28E-04	0.00	1.30E+13
108.6859	52745.	0.00				
23.0300	-0.01569	2.61E+07	-127844.	-7.16E-04	0.00	1.30E+13
149.8164	53844.	0.00				
23.5000	-0.01970	2.54E+07	-126881.	-7.05E-04	0.00	1.31E+13
191.9138	54943.	0.00				
23.9700	-0.02365	2.46E+07	-125677.	-6.94E-04	0.00	1.31E+13
234.9587	56042.	0.00				
24.4400	-0.02753	2.39E+07	-124228.	-6.84E-04	0.00	1.31E+13
278.9328	57141.	0.00				
24.9100	-0.03136	2.32E+07	-122528.	-6.74E-04	0.00	1.31E+13
323.8190	58240.	0.00				
25.3800	-0.03513	2.26E+07	-121314.	-6.64E-04	0.00	1.31E+13
106.6667	17125.	0.00				
25.8500	-0.03885	2.19E+07	-120674.	-6.54E-04	0.00	1.31E+13
120.1338	17442.	0.00				
26.3200	-0.04251	2.12E+07	-119958.	-6.45E-04	0.00	1.31E+13
133.8512	17759.	0.00				
26.7900	-0.04612	2.05E+07	-119164.	-6.36E-04	0.00	1.31E+13
147.8153	18076.	0.00				
27.2600	-0.04968	1.99E+07	-118290.	-6.27E-04	0.00	1.31E+13
162.0229	18394.	0.00				
27.7300	-0.05319	1.92E+07	-117335.	-6.19E-04	0.00	1.31E+13
176.4710	18711.	0.00				

28.2000	-0.05666	1.85E+07	-116299.	-6.11E-04	0.00	1.31E+13
191.1570	19028.	0.00				
28.6700	-0.06008	1.79E+07	-115179.	-6.03E-04	0.00	1.31E+13
206.0786	19345.	0.00				
29.1400	-0.06346	1.72E+07	-113974.	-5.95E-04	0.00	1.31E+13
221.2337	19662.	0.00				
29.6100	-0.06680	1.66E+07	-112682.	-5.88E-04	0.00	1.31E+13
236.6207	19979.	0.00				
30.0800	-0.07009	1.60E+07	-111304.	-5.81E-04	0.00	1.31E+13
252.2382	20296.	0.00				
30.5500	-0.07335	1.53E+07	-109836.	-5.74E-04	0.00	1.31E+13
268.0850	20614.	0.00				
31.0200	-0.07657	1.47E+07	-108279.	-5.68E-04	0.00	1.31E+13
284.1602	20931.	0.00				
31.4900	-0.07975	1.41E+07	-106630.	-5.62E-04	0.00	1.31E+13
300.4633	21248.	0.00				
31.9600	-0.08291	1.35E+07	-104889.	-5.56E-04	0.00	1.31E+13
316.9940	21565.	0.00				
32.4300	-0.08602	1.29E+07	-103054.	-5.50E-04	0.00	1.32E+13
333.7519	21882.	0.00				
32.9000	-0.08911	1.24E+07	-101124.	-5.45E-04	0.00	1.32E+13
350.7374	22199.	0.00				
33.3700	-0.09217	1.18E+07	-99097.	-5.39E-04	0.00	1.32E+13
367.9507	22516.	0.00				
33.8400	-0.09519	1.12E+07	-96973.	-5.34E-04	0.00	1.32E+13
385.3924	22833.	0.00				
34.3100	-0.09820	1.07E+07	-94749.	-5.30E-04	0.00	1.32E+13
403.0631	23151.	0.00				
34.7800	-0.1012	1.02E+07	-92426.	-5.25E-04	0.00	1.32E+13
420.9638	23468.	0.00				
35.2500	-0.1041	9658548.	-90610.	-5.21E-04	0.00	1.32E+13
222.9568	12077.	0.00				
35.7200	-0.1070	9151230.	-89343.	-5.17E-04	0.00	1.32E+13
226.0691	11911.	0.00				
36.1900	-0.1100	8651103.	-88060.	-5.13E-04	0.00	1.32E+13
229.1162	11752.	0.00				
36.6600	-0.1128	8158263.	-86759.	-5.10E-04	0.00	1.32E+13
232.1018	11601.	0.00				
37.1300	-0.1157	7672804.	-85442.	-5.06E-04	0.00	1.32E+13
235.0295	11457.	0.00				
37.6000	-0.1185	7194821.	-84108.	-5.03E-04	0.00	1.32E+13
237.9027	11318.	0.00				
38.0700	-0.1214	6724404.	-82759.	-5.00E-04	0.00	1.32E+13
240.7243	11186.	0.00				
38.5400	-0.1242	6261643.	-81393.	-4.97E-04	0.00	1.32E+13
243.4974	11058.	0.00				
39.0100	-0.1270	5806627.	-80012.	-4.95E-04	0.00	1.32E+13
246.2246	10936.	0.00				
39.4800	-0.1298	5359443.	-78616.	-4.92E-04	0.00	1.32E+13
248.9085	10818.	0.00				

39.9500	-0.1325	4920175.	-77204.	-4.90E-04	0.00	1.32E+13
251.5516	10704.	0.00				
40.4200	-0.1353	4488909.	-75778.	-4.88E-04	0.00	1.32E+13
254.1560	10595.	0.00				
40.8900	-0.1380	4065727.	-74338.	-4.86E-04	0.00	1.32E+13
256.7240	10489.	0.00				
41.3600	-0.1408	3650710.	-72883.	-4.85E-04	0.00	1.32E+13
259.2575	10386.	0.00				
41.8300	-0.1435	3243939.	-71413.	-4.83E-04	0.00	1.32E+13
261.7585	10287.	0.00				
42.3000	-0.1462	2845495.	-69930.	-4.82E-04	0.00	1.32E+13
264.2288	10191.	0.00				
42.7700	-0.1490	2455455.	-68433.	-4.81E-04	0.00	1.32E+13
266.6701	10097.	0.00				
43.2400	-0.1517	2073897.	-66922.	-4.80E-04	0.00	1.32E+13
269.0840	10007.	0.00				
43.7100	-0.1544	1700899.	-65398.	-4.79E-04	0.00	1.32E+13
271.4721	9919.	0.00				
44.1800	-0.1571	1336536.	-63860.	-4.78E-04	0.00	1.32E+13
273.8357	9833.	0.00				
44.6500	-0.1598	980883.	-62309.	-4.78E-04	0.00	1.32E+13
276.1764	9750.	0.00				
45.1200	-0.1625	634015.	-55049.	-4.78E-04	0.00	1.32E+13
2298.	79783.	0.00				
45.5900	-0.1651	360248.	-41891.	-4.77E-04	0.00	1.32E+13
2368.	80871.	0.00				
46.0600	-0.1678	161807.	-28335.	-4.77E-04	0.00	1.32E+13
2439.	81966.	0.00				
46.5300	-0.1705	40957.	-14373.	-4.77E-04	0.00	1.32E+13
2512.	83067.	0.00				
47.0000	-0.1732	0.00	0.00	-4.77E-04	0.00	1.32E+13
2585.	42087.	0.00				

* This analysis computed pile response using nonlinear moment-curvature relationships. Values of total stress due to combined axial and bending stresses are computed only for elastic sections only and do not equal the actual stresses in concrete and steel. Stresses in concrete and steel may be interpolated from the output for nonlinear bending properties relative to the magnitude of bending moment developed in the pile.

Output Summary for Load Case No. 1:

Pile-head deflection	=	0.53111733 inches
Computed slope at pile head	=	-0.00378695 radians
Maximum bending moment	=	45041138. inch-lbs
Maximum shear force	=	-129408. lbs
Depth of maximum bending moment	=	5.17000000 feet below pile head
Depth of maximum shear force	=	21.15000000 feet below pile head
Number of iterations	=	168

Number of zero deflection points = 1

 Computed Values of Pile Loading and Deflection
 for Lateral Loading for Load Case Number 2

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 8000.0 lbs
 Applied moment at pile head = 9420000.0 in-lbs
 Axial thrust load on pile head = 50000.0 lbs

Depth	Deflect.	Bending	Shear	Slope	Total	Bending	Soil
Res. Soil	Spr. Distrib.	Moment	Force	S	Stress	Stiffness	p
X	y	Lat. Load					
Es*h	inches	in-lbs	lbs	radians	psi*	lb-in^2	
feet	lb/inch	lb/inch					
lb/inch							
0.00	0.06578	9420000.	8000.	-3.21E-04	0.00	1.32E+13	
0.00	0.00	0.00					
0.4700	0.06398	9465210.	7915.	-3.17E-04	0.00	1.32E+13	
-29.9964	2644.	0.00					
0.9400	0.06221	9509465.	7666.	-3.13E-04	0.00	1.32E+13	
-58.3279	5288.	0.00					
1.4100	0.06045	9551863.	7262.	-3.09E-04	0.00	1.32E+13	
-85.0268	7933.	0.00					
1.8800	0.05872	9591555.	6712.	-3.05E-04	0.00	1.32E+13	
-110.1257	10577.	0.00					
2.3500	0.05702	9627743.	6185.	-3.00E-04	0.00	1.32E+13	
-76.6861	7586.	0.00					
2.8200	0.05533	9661490.	5717.	-2.96E-04	0.00	1.32E+13	
-89.3067	9103.	0.00					
3.2900	0.05367	9692396.	5180.	-2.92E-04	0.00	1.32E+13	
-101.0658	10620.	0.00					
3.7600	0.05204	9720085.	4579.	-2.88E-04	0.00	1.32E+13	
-111.9822	12137.	0.00					
4.2300	0.05042	9744212.	3919.	-2.84E-04	0.00	1.32E+13	
-122.0750	13654.	0.00					
4.7000	0.04884	9764454.	3204.	-2.80E-04	0.00	1.32E+13	
-131.3634	15171.	0.00					
5.1700	0.04727	9780516.	2440.	-2.76E-04	0.00	1.32E+13	
-139.8663	16688.	0.00					
5.6400	0.04573	9792128.	1629.	-2.71E-04	0.00	1.32E+13	
-147.6031	18206.	0.00					
6.1100	0.04421	9799043.	776.7291	-2.67E-04	0.00	1.32E+13	

-154.5928	19723.	0.00					
6.5800	0.04271	9801040.	-112.8322	-2.63E-04	0.00	1.32E+13	
-160.8545	21240.	0.00					
7.0500	0.04124	9797919.	-1036.	-2.59E-04	0.00	1.32E+13	
-166.4074	22757.	0.00					
7.5200	0.03979	9789503.	-1988.	-2.55E-04	0.00	1.32E+13	
-171.2705	24274.	0.00					
7.9900	0.03837	9775638.	-2966.	-2.50E-04	0.00	1.32E+13	
-175.4629	25791.	0.00					
8.4600	0.03697	9756190.	-3965.	-2.46E-04	0.00	1.32E+13	
-179.0034	27308.	0.00					
8.9300	0.03559	9731048.	-4983.	-2.42E-04	0.00	1.32E+13	
-181.9108	28825.	0.00					
9.4000	0.03424	9700117.	-6016.	-2.38E-04	0.00	1.32E+13	
-184.2039	30343.	0.00					
9.8700	0.03291	9663326.	-7059.	-2.34E-04	0.00	1.32E+13	
-185.9011	31860.	0.00					
10.3400	0.03160	9620621.	-8111.	-2.30E-04	0.00	1.32E+13	
-187.0208	33377.	0.00					
10.8100	0.03032	9571965.	-9167.	-2.26E-04	0.00	1.32E+13	
-187.5811	34894.	0.00					
11.2800	0.02906	9517341.	-10225.	-2.21E-04	0.00	1.32E+13	
-187.6002	36411.	0.00					
11.7500	0.02782	9456748.	-11282.	-2.17E-04	0.00	1.32E+13	
-187.0956	37928.	0.00					
12.2200	0.02661	9390203.	-12334.	-2.13E-04	0.00	1.32E+13	
-186.0850	39445.	0.00					
12.6900	0.02542	9317738.	-13380.	-2.09E-04	0.00	1.32E+13	
-184.5855	40962.	0.00					
13.1600	0.02425	9239399.	-14415.	-2.05E-04	0.00	1.32E+13	
-182.6141	42480.	0.00					
13.6300	0.02310	9155251.	-15438.	-2.01E-04	0.00	1.32E+13	
-180.1875	43997.	0.00					
14.1000	0.02197	9065370.	-16446.	-1.98E-04	0.00	1.32E+13	
-177.3221	45514.	0.00					
14.5700	0.02087	8969848.	-17437.	-1.94E-04	0.00	1.32E+13	
-174.0337	47031.	0.00					
15.0400	0.01979	8868788.	-18408.	-1.90E-04	0.00	1.32E+13	
-170.3382	48548.	0.00					
15.5100	0.01873	8762309.	-19358.	-1.86E-04	0.00	1.32E+13	
-166.2507	50065.	0.00					
15.9800	0.01769	8650540.	-20157.	-1.82E-04	0.00	1.32E+13	
-117.1824	37361.	0.00					
16.4500	0.01667	8535043.	-20808.	-1.79E-04	0.00	1.32E+13	
-113.6861	38460.	0.00					
16.9200	0.01567	8415929.	-21438.	-1.75E-04	0.00	1.32E+13	
-109.9375	39559.	0.00					
17.3900	0.01470	8293316.	-22047.	-1.71E-04	0.00	1.32E+13	
-105.9464	40658.	0.00					
17.8600	0.01374	8167332.	-22633.	-1.68E-04	0.00	1.32E+13	

-101.7226	41757.	0.00					
18.3300	0.01280	8038112.	-23194.	-1.65E-04	0.00	1.32E+13	
-97.2754	42856.	0.00					
18.8000	0.01188	7905796.	-23730.	-1.61E-04	0.00	1.32E+13	
-92.6139	43954.	0.00					
19.2700	0.01098	7770534.	-24238.	-1.58E-04	0.00	1.32E+13	
-87.7468	45053.	0.00					
19.7400	0.01010	7632479.	-24719.	-1.54E-04	0.00	1.32E+13	
-82.6827	46152.	0.00					
20.2100	0.00924	7491793.	-25170.	-1.51E-04	0.00	1.32E+13	
-77.4296	47251.	0.00					
20.6800	0.00840	7348643.	-25592.	-1.48E-04	0.00	1.32E+13	
-71.9954	48350.	0.00					
21.1500	0.00757	7203203.	-25982.	-1.45E-04	0.00	1.32E+13	
-66.3877	49449.	0.00					
21.6200	0.00676	7055649.	-26340.	-1.42E-04	0.00	1.32E+13	
-60.6135	50548.	0.00					
22.0900	0.00597	6906167.	-26665.	-1.39E-04	0.00	1.32E+13	
-54.6800	51646.	0.00					
22.5600	0.00520	6754944.	-26956.	-1.36E-04	0.00	1.32E+13	
-48.5934	52745.	0.00					
23.0300	0.00444	6602175.	-27213.	-1.33E-04	0.00	1.32E+13	
-42.3602	53844.	0.00					
23.5000	0.00369	6448058.	-27434.	-1.30E-04	0.00	1.32E+13	
-35.9862	54943.	0.00					
23.9700	0.00297	6292795.	-27618.	-1.28E-04	0.00	1.32E+13	
-29.4771	56042.	0.00					
24.4400	0.00225	6136594.	-27766.	-1.25E-04	0.00	1.32E+13	
-22.8380	57141.	0.00					
24.9100	0.00156	5979666.	-27876.	-1.22E-04	0.00	1.32E+13	
-16.0741	58240.	0.00					
25.3800	8.73E-04	5822225.	-27929.	-1.20E-04	0.00	1.32E+13	
-2.6522	17125.	0.00					
25.8500	2.04E-04	5664700.	-27938.	-1.17E-04	0.00	1.32E+13	
-0.6319	17442.	0.00					
26.3200	-4.51E-04	5507154.	-27936.	-1.15E-04	0.00	1.32E+13	
1.4206	17759.	0.00					
26.7900	-0.00109	5349652.	-27922.	-1.13E-04	0.00	1.32E+13	
3.5044	18076.	0.00					
27.2600	-0.00172	5192261.	-27896.	-1.10E-04	0.00	1.32E+13	
5.6184	18394.	0.00					
27.7300	-0.00234	5035048.	-27858.	-1.08E-04	0.00	1.32E+13	
7.7617	18711.	0.00					
28.2000	-0.00294	4878082.	-27808.	-1.06E-04	0.00	1.32E+13	
9.9334	19028.	0.00					
28.6700	-0.00354	4721430.	-27746.	-1.04E-04	0.00	1.32E+13	
12.1330	19345.	0.00					
29.1400	-0.00412	4565165.	-27671.	-1.02E-04	0.00	1.32E+13	
14.3595	19662.	0.00					
29.6100	-0.00469	4409355.	-27584.	-1.00E-04	0.00	1.32E+13	

16.6126	19979.	0.00					
30.0800	-0.00525	4254074.	-27484.	-9.84E-05	0.00	1.32E+13	
18.8917	20296.	0.00					
30.5500	-0.00580	4099392.	-27371.	-9.66E-05	0.00	1.32E+13	
21.1964	20614.	0.00					
31.0200	-0.00634	3945385.	-27245.	-9.49E-05	0.00	1.32E+13	
23.5263	20931.	0.00					
31.4900	-0.00687	3792125.	-27105.	-9.32E-05	0.00	1.32E+13	
25.8812	21248.	0.00					
31.9600	-0.00739	3639689.	-26953.	-9.17E-05	0.00	1.32E+13	
28.2609	21565.	0.00					
32.4300	-0.00790	3488150.	-26787.	-9.01E-05	0.00	1.32E+13	
30.6652	21882.	0.00					
32.9000	-0.00841	3337587.	-26607.	-8.87E-05	0.00	1.32E+13	
33.0942	22199.	0.00					
33.3700	-0.00890	3188076.	-26413.	-8.73E-05	0.00	1.32E+13	
35.5478	22516.	0.00					
33.8400	-0.00939	3039696.	-26206.	-8.60E-05	0.00	1.32E+13	
38.0262	22833.	0.00					
34.3100	-0.00987	2892525.	-25984.	-8.47E-05	0.00	1.32E+13	
40.5295	23151.	0.00					
34.7800	-0.01035	2746642.	-25748.	-8.35E-05	0.00	1.32E+13	
43.0580	23468.	0.00					
35.2500	-0.01082	2602129.	-25424.	-8.24E-05	0.00	1.32E+13	
71.8743	37480.	0.00					
35.7200	-0.01128	2459902.	-25015.	-8.13E-05	0.00	1.32E+13	
73.3910	36705.	0.00					
36.1900	-0.01173	2320009.	-24597.	-8.03E-05	0.00	1.32E+13	
74.8581	35985.	0.00					
36.6600	-0.01218	2182497.	-24170.	-7.93E-05	0.00	1.32E+13	
76.2795	35314.	0.00					
37.1300	-0.01263	2047412.	-23736.	-7.84E-05	0.00	1.32E+13	
77.6588	34687.	0.00					
37.6000	-0.01307	1914796.	-23295.	-7.76E-05	0.00	1.32E+13	
78.9991	34098.	0.00					
38.0700	-0.01350	1784693.	-22845.	-7.68E-05	0.00	1.32E+13	
80.3034	33544.	0.00					
38.5400	-0.01393	1657144.	-22389.	-7.60E-05	0.00	1.32E+13	
81.5742	33021.	0.00					
39.0100	-0.01436	1532190.	-21925.	-7.54E-05	0.00	1.32E+13	
82.8141	32527.	0.00					
39.4800	-0.01478	1409870.	-21455.	-7.47E-05	0.00	1.32E+13	
84.0252	32058.	0.00					
39.9500	-0.01520	1290222.	-20978.	-7.41E-05	0.00	1.32E+13	
85.2096	31612.	0.00					
40.4200	-0.01562	1173285.	-20494.	-7.36E-05	0.00	1.32E+13	
86.3692	31188.	0.00					
40.8900	-0.01603	1059095.	-20003.	-7.31E-05	0.00	1.32E+13	
87.5057	30782.	0.00					
41.3600	-0.01644	947689.	-19507.	-7.27E-05	0.00	1.32E+13	

88.6208	30395.	0.00					
41.8300	-0.01685	839101.	-19004.	-7.23E-05	0.00	1.32E+13	
89.7160	30024.	0.00					
42.3000	-0.01726	733368.	-18495.	-7.20E-05	0.00	1.32E+13	
90.7926	29668.	0.00					
42.7700	-0.01767	630522.	-17980.	-7.17E-05	0.00	1.32E+13	
91.8521	29325.	0.00					
43.2400	-0.01807	530598.	-17459.	-7.15E-05	0.00	1.32E+13	
92.8956	28996.	0.00					
43.7100	-0.01847	433628.	-16932.	-7.13E-05	0.00	1.32E+13	
93.9242	28678.	0.00					
44.1800	-0.01887	339647.	-16399.	-7.11E-05	0.00	1.32E+13	
94.9391	28372.	0.00					
44.6500	-0.01927	248685.	-15861.	-7.10E-05	0.00	1.32E+13	
95.9412	28075.	0.00					
45.1200	-0.01967	160775.	-13949.	-7.09E-05	0.00	1.32E+13	
581.8983	166819.	0.00					
45.5900	-0.02007	91375.	-10617.	-7.08E-05	0.00	1.32E+13	
599.9016	168556.	0.00					
46.0600	-0.02047	41058.	-7182.	-7.08E-05	0.00	1.32E+13	
618.1445	170294.	0.00					
46.5300	-0.02087	10403.	-3643.	-7.08E-05	0.00	1.32E+13	
636.6304	172032.	0.00					
47.0000	-0.02127	0.00	0.00	-7.08E-05	0.00	1.32E+13	
655.3617	86885.	0.00					

* This analysis computed pile response using nonlinear moment-curvature relationships. Values of total stress due to combined axial and bending stresses are computed only for elastic sections only and do not equal the actual stresses in concrete and steel. Stresses in concrete and steel may be interpolated from the output for nonlinear bending properties relative to the magnitude of bending moment developed in the pile.

Output Summary for Load Case No. 2:

Pile-head deflection	=	0.06577938 inches
Computed slope at pile head	=	-0.00032088 radians
Maximum bending moment	=	9801040. inch-lbs
Maximum shear force	=	-27938. lbs
Depth of maximum bending moment	=	6.58000000 feet below pile head
Depth of maximum shear force	=	25.85000000 feet below pile head
Number of iterations	=	7
Number of zero deflection points	=	1

Summary of Pile-head Responses for Conventional Analyses

Definitions of Pile-head Loading Conditions:

- Load Type 1: Load 1 = Shear, V, lbs, and Load 2 = Moment, M, in-lbs
- Load Type 2: Load 1 = Shear, V, lbs, and Load 2 = Slope, S, radians
- Load Type 3: Load 1 = Shear, V, lbs, and Load 2 = Rot. Stiffness, R, in-lbs/rad.
- Load Type 4: Load 1 = Top Deflection, y, inches, and Load 2 = Moment, M, in-lbs
- Load Type 5: Load 1 = Top Deflection, y, inches, and Load 2 = Slope, S, radians

Case No.	Load Type	Load 1	Load 2	Axial Loading	Pile-head Deflection	Pile-head Rotation	Max in lbs
1	V, lb	37000.	M, in-lb	60000.	0.5311	-0.00379	
		4.50E+07					
2	V, lb	8000.	M, in-lb	50000.	0.06578	-3.21E-04	
		9801040.					

Maximum pile-head deflection = 0.5311173276 inches
 Maximum pile-head rotation = -0.0037869500 radians = -0.216976 deg.

Summary of Warning Messages

The following warning was reported 147 times

**** Warning ****

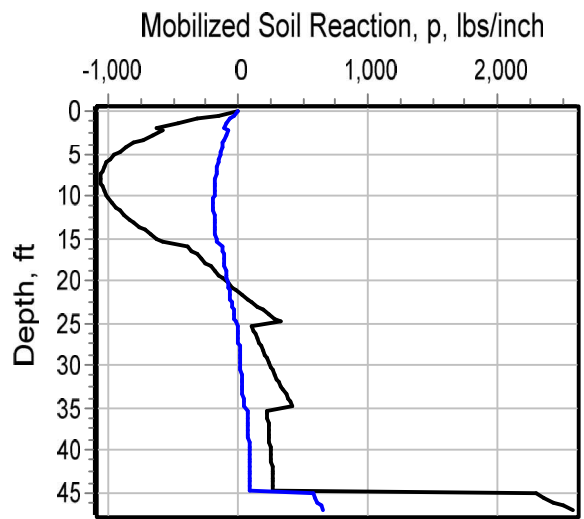
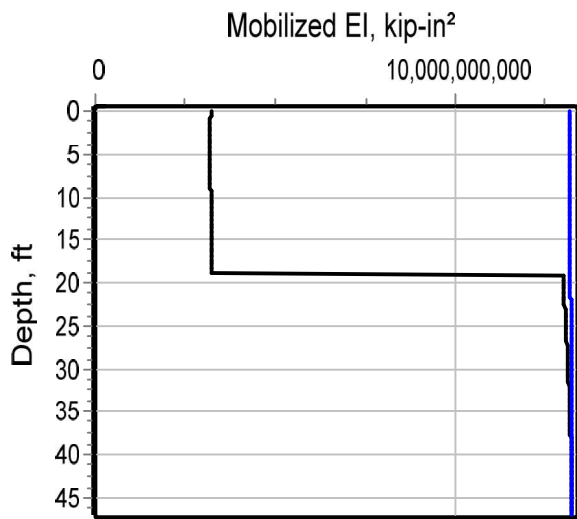
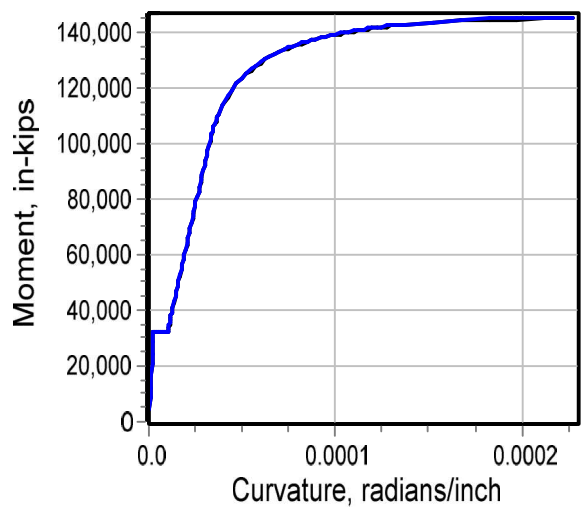
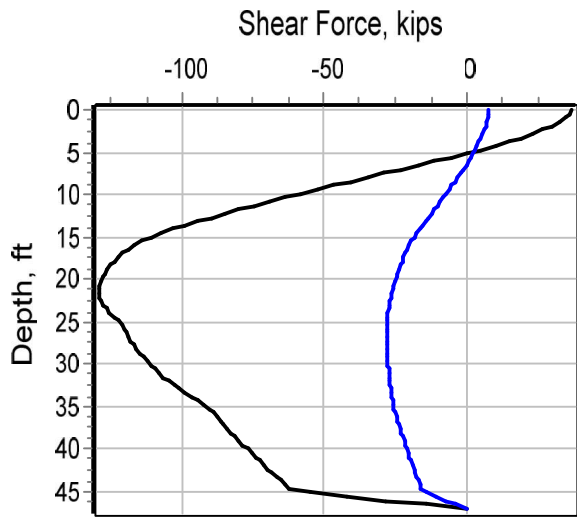
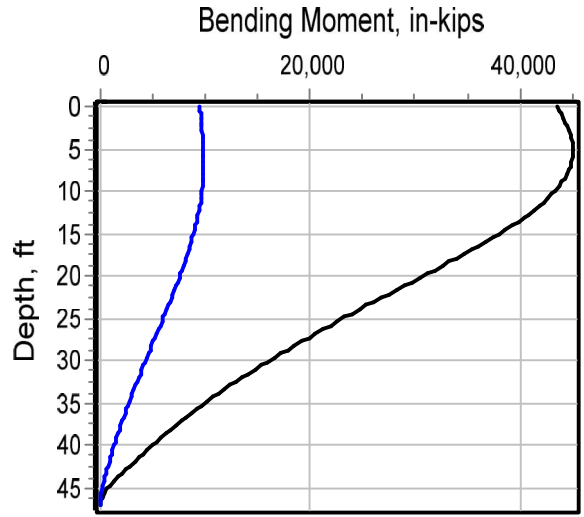
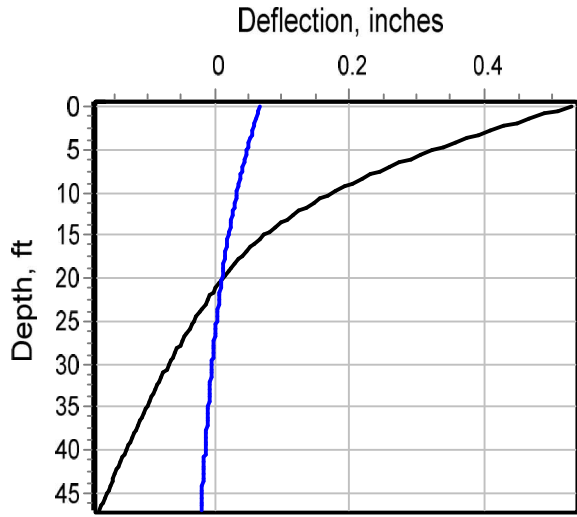
The input value for friction angle is either smaller than 29 degrees or higher than 41 degrees and no value of k has been specified for a soil layer defined using the sand criteria. Program will assume an internal default value, for k, but the friction angle is outside the range of data available. Please check your input data for correctness.

The following warning was reported 147 times

**** Warning ****

An unreasonable input value for shear strength has been specified for a layer. defined using the stiff clay with free water criteria. The input value is less than 500 psf. Please check your input data for correctness.

The analysis ended normally.



Drilled Pier Foundation

BU #: 806369
 Site Name: HRT 094 943225
 Order Number: 523998 Rev. 1

TIA-222 Revision: H
 Tower Type: Monopole



Applied Loads		Comp.	Uplift
Moment (kip-ft)		3633	-
Axial Force (kips)		60	-
Shear Force (kips)		37	-

Material Properties	
Concrete Strength, f _c :	3 ksi
Rebar Strength, F _y :	60 ksi

Pier Design Data	
Depth	47 ft
Ext. Above Grade	0 ft
Pier Section 1	
<i>From 0' below grade to 47' below grade</i>	
Pier Diameter	7.5 ft
Rebar Quantity	52
Rebar Size	10
Clear Cover to Ties	2.865 in
Tie Size	4

Rebar & Pier Options
 Embedded Pole Inputs
 Belled Pier Inputs

Analysis Results			
Soil Lateral Check	Compression	Uplift	
D _{v=0} (ft from TOC)		-	
Soil Safety Factor		-	
Max Moment (kip-ft)		-	
Rating*		-	
Soil Vertical Check			
Compression		Uplift	
Skin Friction (kips)	406.44	-	
End Bearing (kips)	298.21	-	
Weight of Concrete (kips)	251.35	-	
Total Capacity (kips)	704.65	-	
Axial (kips)	311.35	-	
Rating*	42.1%	-	
Reinforced Concrete Check			
Compression		Uplift	
Critical Depth (ft from TOC)		-	
Critical Moment (kip-ft)		-	
Critical Moment Capacity		-	
Rating*		-	
Soil Interaction Rating*			
Soil Interaction Rating*		42.1%	
Structural Foundation Rating*		0.0%	

*Rating per TIA-222-H Section 15.5

Soil Profile	
Groundwater Depth	10
# of Layers	8

Layer	Top (ft)	Bottom (ft)	Thickness (ft)	Y _{soil} (pcf)	Y _{concrete} (pcf)	Cohesion (ksf)	Angle of Friction (degrees)	Calculated Ultimate Skin Friction Comp (ksf)	Calculated Ultimate Skin Friction Uplift (ksf)	Ultimate Skin Friction Comp Override (ksf)	Ultimate Skin Friction Uplift Override (ksf)	Ult. Gross Bearing Capacity (ksf)	SPT Blow Count	Soil Type
1	0	2	2	105	150	0	0	0.000	0.000	0.00	0.00			Cohesionless
2	2	3.75	1.75	100	150	0	0	0.000	0.000	0.00	0.00			Cohesionless
3	3.75	5	1.25	100	150	0.5	30	0.472	0.472	0.00	0.00		13	Cohesionless
4	5	10	5	100	150	0.5	30	0.000	0.000	0.60	0.60			Cohesionless
5	10	25	15	36	87.6	0.1	27	0.000	0.000	0.40	0.40			Cohesionless
6	25	35	10	36	87.6	0.1	27	0.000	0.000	0.60	0.60			Cohesionless
7	35	45	10	41	87.6	0.2	32	0.11	0.11	0.60	0.60			Cohesive
8	45	47	2	41	87.6	0	32	0.00	0.00	1.00	1.00	9		Cohesionless

DRILLED PIER STEEL ANALYSIS - STEEL CALCULATIONS - TIA-222-H
 BASED ON ACI 318-14, SECTION 10 (ASSUMING TIE REINFORCEMENT)

Factored Internal Loads from Analysis

Reference Standard =	TIA-222-H
ACI Code =	ACI 318-14
Maximum Ratio =	100.0%
Axial Load, Pu =	90.1 kips, (+Comp, -Tension)
Moment, Mu =	3753.4 k-ft (Must be Positive)
Depth to Analysis Section =	5.17 ft, from Grade

Factored Internal Loads

Load Factor =	1.0
Axial Load, Pu = ΦP_n =	90.1 kips
Moment, Mu =	3753.4 k-ft

Drilled Pier Geometry and Concrete Specifications

Diameter =	90 in
fc' =	3 ksi
ϵ_c =	0.003 in/in
β_1 =	0.85
Ag =	6361.7 in ²
Height Above Grade =	0 ft
Depth Below Grade =	47 ft

Nominal Axial Load and Moment

ΦP_n (max) =	10408.5 kips
ΦP_n (min) =	-3566.2 kips
ΦP_n =	90.1 kips
Φ =	0.900
ΦM_n (Resultant) =	10718.7 k-ft
at θ =	0.00 degrees
NA Depth =	18.91 in

Rebar Size and Specifications

Bar Size =	Existing #10	Bar Circle 2 #10
Override Bar Diameter =		in
Bar Diameter =	1.2700	1.2700 in
Bar Area =	1.2700	1.2700 in ²
Effective Bar Area =	1.2700	1.2700 in ²
Number Bars =	26	26
Spacing =	Symmetric	Symmetric
fy =	60	60 ksi
Es =	29000	29000 ksi
ϵ_y =	0.00207	0.00207 in/in
Tie Size =	#4	
Clear Cover to Ties =	3	in
Bar Circle =	81.73	81.73 in
Adjust =	0.0000	6.9231
% of Area Effective =	100.0%	100.0%
Include in Calcs =	Yes	Yes
Bar Circle Valid =	Yes	Yes

AXIAL RATIO* = 0.8% OK

MOMENT RATIO* = 33.4% OK

*Rating per TIA-222-H Section 15.5

Minimum Required Steel

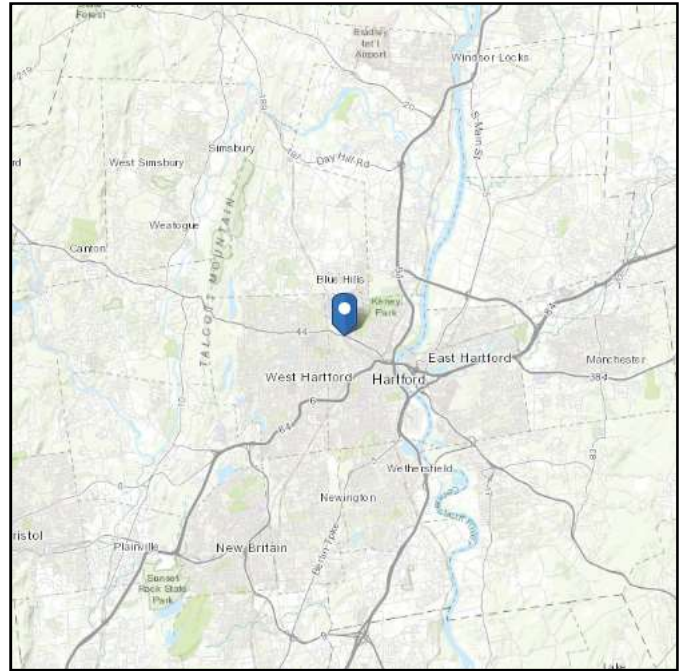
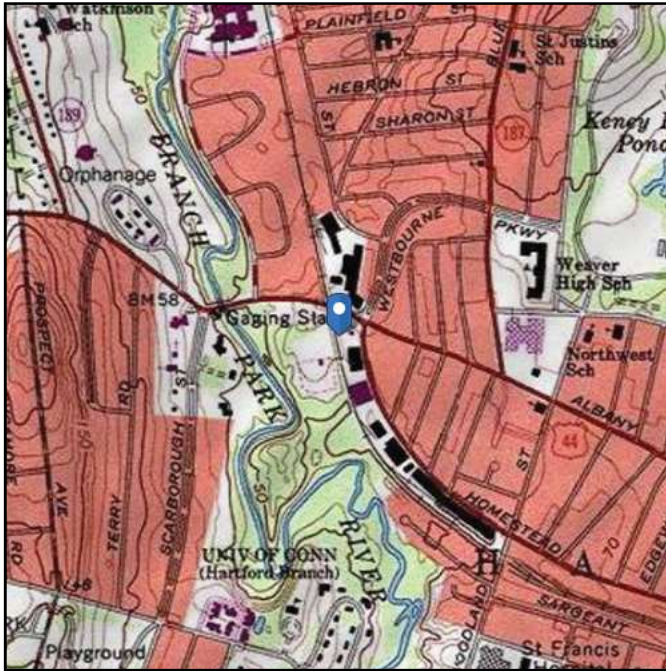
Seismic Design Category =	D	TIA-222-H, 9.4.1
As(min) =	31.81	sq in
As =	66.04	sq in
Stl Area Reduction Factor =	1.00	

ASCE 7 Hazards Report

Address:
No Address at This
Location

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

Elevation: 60.06 ft (NAVD 88)
Latitude: 41.783781
Longitude: -72.703794



Site Soil Class: D - Stiff Soil

Results:

S_s :	0.18	S_{DS} :	0.192
S_1 :	0.064	S_{D1} :	0.102
F_a :	1.6	T_L :	6
F_v :	2.4	PGA :	0.091
S_{MS} :	0.289	PGA_M :	0.145
S_{M1} :	0.154	F_{PGA} :	1.6
		I_e :	1

Seismic Design Category
Data Accessed:

B
 Wed Dec 18 2019

Date Source:

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

Ice

Results:

Ice Thickness: 1.00 in.
Concurrent Temperature: 5 F
Gust Speed: 50 mph

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

Date Accessed: Wed Dec 18 2019

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

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

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

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Exhibit E

Mount Analysis



Date: **June 19, 2020**

Darcy Tarr
Crown Castle
3530 Torington Way, Suite 300
Charlotte, NC 28277
(704)-405-6619

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

Subject: Mount Modification Analysis Report

Carrier Designation: T-Mobile
Carrier Site Number: CT11161D
Carrier Site Name: CT161/Jn of Albany_1

Crown Castle Designation: Crown Castle BU Number: 806369
Crown Castle Site Name: HRT 094 943225
Crown Castle JDE Job Number: 613800
Crown Castle Order Number: 523998 Rev. 1

Engineering Firm Designation: EOR Report Designation: 20-65646

Site Data: 439-455 Homestead Ave., Hartford, Hartford County, CT 06105
Latitude 41°47'01.61" Longitude -72°42'13.66"

Structure Information: Tower Height & Type: 140 ft Monopole
Mount Elevation: 126 ft
Mount Type: 12.83 ft Platform w/ Support Rails

Dear Darcy Tarr,

POD Group is pleased to submit this "Mount Modification Analysis Report" to determine the structural integrity of T-Mobile'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:

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

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

Mount structural analysis prepared by: Logan Traphagen

Respectfully submitted by:


Respectfully submitted by:
Jason Cheronis, P.E.
Connecticut PE #: PEN.0032793



6/19/2020

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- 4) ANALYSIS RESULTS**
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 - Mount Modification Design Drawings

1) INTRODUCTION

This mount is an existing 12.83 ft platform with support rails mapped by Tower Engineering Professional in September 2018. This mount is installed at the 126 ft elevation on the 140 ft Monopole.

2) ANALYSIS CRITERIA

Building Code: 2018 Connecticut Building Code & 2015 IBC
TIA-222 Revision: TIA-222-H
Risk Category: II
Ultimate Wind Speed: 125 mph
Exposure Category: B
Topographic Factor at Base: 1.000
Topographic Factor at Mount: 1.000
Ice Thickness: 1.5 in
Wind Speed with Ice: 50 mph
Seismic S_s: 0.181
Seismic S₁: 0.064
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 - Final Equipment Configuration

Mount Centerline (ft)	Antenna Centerline (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Mount / Modification Details	Note
128	128	3	Ericsson	AIR-32 B2A/B66AA	12.83 ft Platform w/ Support Rails	-
		3	Ericsson	AIR6449 B41		
		3	Ericsson	Ericsson AIR 21 B2A B4P_T-MOBILE		
		3	RFS/Celwave	APXVAARR24_43-U-NA20		
		3	Ericsson	Radio 4449 B71 B85A_T-MOBILE		
		3	Ericsson	RRUS 4415 B25_CCIV2		
	126	3	RFS/Celwave	ATMAA1412D-1A20		

3) ANALYSIS PROCEDURE

Table 2 - Documents Provided

Document	Remarks	Reference	Source
Crown Application	-	Crown Castle App ID: 523998 Rev.1 Dated: 6/5/2020	Crown Castle
RFDS	-	T-Mobile Site ID: CT11161D Dated: 5/11/2020	Crown Castle
Previous Mount Analysis	-	Maser Consulting Connecticut Report # 18922077A Dated: 9/21/2018	Crown Castle
Mount Mapping	-	Tower Engineering Professionals TEP #: 25689.177485 Dated: 9/17/2018	Crown Castle
Previous Mount Analysis	-	POD Job #: 20-65094 Dated: 6/11/2020	POD
Modification Part Specification	-	SitePro1 Part #: PRK-1245 Dated: 4/10/2014	SitePro1
Mount Modification Design Drawings	-	POD Job #: 20-65646 Dated: 6/19/2020	POD

3.1) Analysis Method

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

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

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

4) ANALYSIS RESULTS

Table 3 - Mount Component Stresses vs. Capacity (12.83 ft Platform w/ Support Rails)

Notes	Component	Critical Member	Centerline (ft)	% Capacity	Pass / Fail
-	Plate	PLATE2	128	66.4	Pass
	Standoff	SO3		28.0	Pass
	Face	FACE2		75.4	Pass
	Mount Pipe	MP GAMMA1		59.0	Pass
	Rail	RAIL3c		71.5	Pass
	Corner	CORNER		51.7	Pass
	Support	SUP1		26.8	Pass
	Kicker	KICKER2		27.0	Pass
1	Flange Plate	-		1.8	Pass
	Flange Plate Bolts	-		14.3	Pass
	Bolts	-		2.4	Pass

Structure Rating (max from all components) =	75.4%
---	--------------

Notes:

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

4.1) Recommendations

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

1. Kicker support, SitePro1 and PRK-1245

Engineering detail drawings have been provided in Appendix F – Mount Modification Design Drawings. Connection from the mount to the tower and local stresses on the tower are sufficient.

5) DISCLAIMER OF WARRANTIES

POD Group has not performed a site visit to the structure to verify the member sizes or antenna/coax loading unless noted otherwise. If the existing conditions are not as represented in this report, we should be contacted immediately to evaluate the significance of the discrepancy. This is not a condition assessment of the structure or foundation. This report does not replace a full structure inspection. The structure, foundations, and mounting systems are assumed to have been properly fabricated, erected, maintained, in good condition, twist free, and plumb.

The engineering services rendered by POD Group in connection with this Structural Analysis are limited to a computer analysis of the structure and theoretical capacity of its main structural members. No allowance was made for any damaged, bent, missing, loose, or rusted members (above and below ground). No allowance was made for loose bolts or cracked welds.

POD Group does not analyze the fabrication of the structure (including welding). It is not possible to have all the very detailed information needed to perform a thorough analysis of every structural sub-component and connection of an existing structure. POD Group provides a limited scope of service in that we cannot verify the adequacy of every weld, plate connection detail, etc. The purpose of this report is to assess the feasibility of adding appurtenances usually accompanied by transmission lines to the structure.

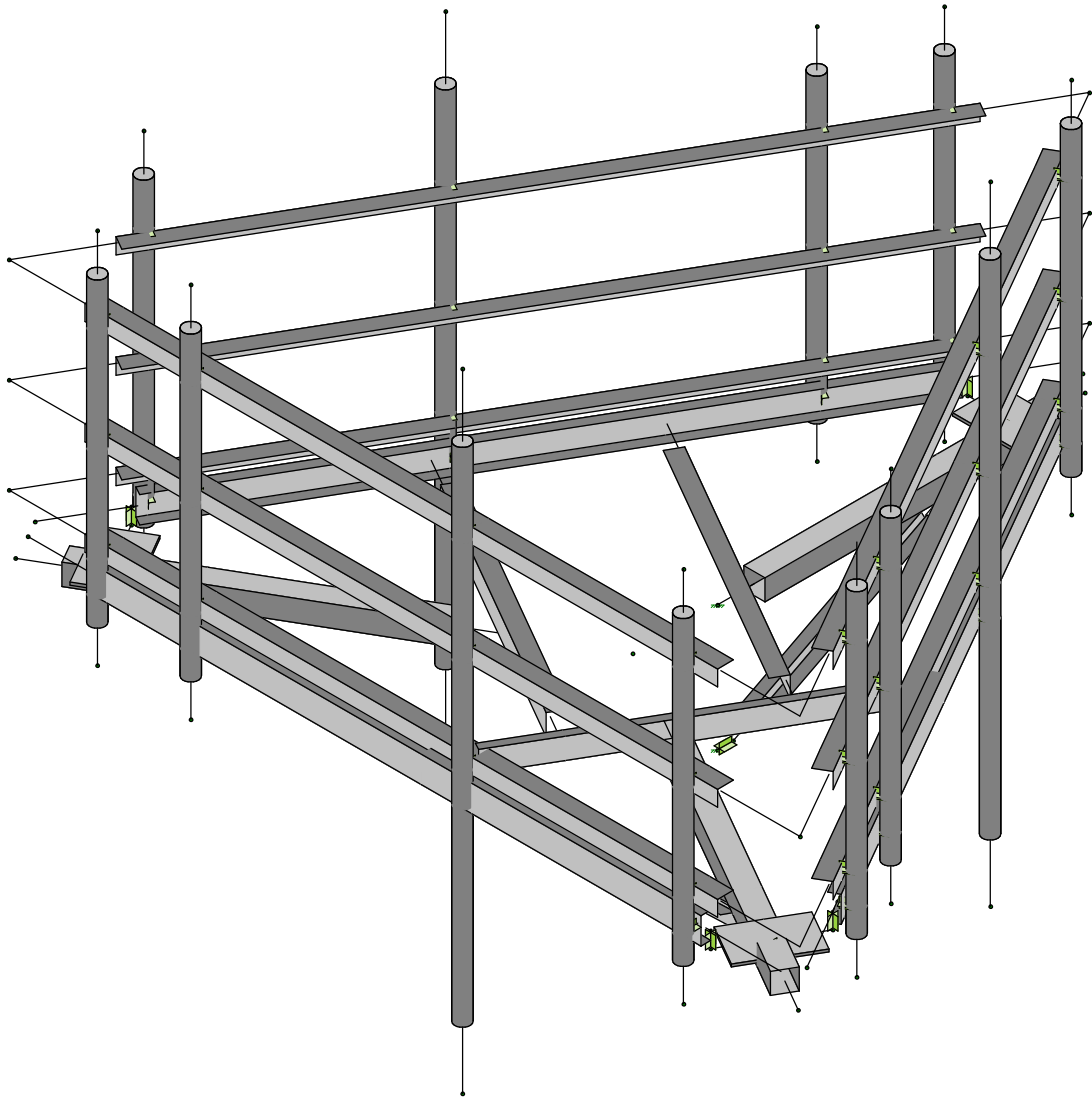
It is the owner's responsibility to determine the amount of ice accumulation in excess of the code specified amount, if any, that should be considered in the structural analysis.

The attached sketches are a schematic representation of the analyzed structure. If any material is fabricated from these sketches, the contractor shall be responsible for field verifying the existing conditions, proper fit, and clearance in the field. Any mentions of structural modifications are reasonable estimates and should not be used as a precise construction document. Precise modification drawings are obtainable from POD Group, but are beyond the scope of this report.

POD Group makes no warranties, expressed and/or implied, in connection with this report and disclaims any liability arising from material, fabrication, and erection of this structure. POD Group will not be responsible whatsoever, for or on account of, consequential or incidental damages sustained by any person, firm, or organization as a result of any data or conclusions contained in this report. The maximum liability of POD Group pursuant to this report will be limited to the total fee received for preparation of this report.

APPENDIX A

Wire Frame and Rendered Models



POD

LT

20-65646

806369

June 19, 2020 at 8:06 AM

806369 - MOD.R3D

APPENDIX B

Software Input Calculations



POD Job # 20-65646
 Site Number 806369
 Site Name HRT 094 943225

General Site Information

Mount Type	SFP	Risk Category	II	I (seismic)	1
V (Wind Speed)	125	I(ice)	1	Sms	0.290
Zs	64	Ss	0.181	Sm1	0.154
tl	1.5	S1	0.064	Sds	0.193
W	50	Soil Site Class	D (assumed)	Sd1	0.102
Kat	1	Fa	1.600	Seismic Design Category	
Exposure	B	Fv	2.400	Seismic Analysis Not Required	
zg	1200	Tower Type	Monopole	R	2 TIA-222-H 16.7
α	7	Tower Height	140	As	1 TIA-222-H 16.7
Kmin	0.7			Cs Min	0.05 TIA-222-H 2.7.7.1.1
Gw	1			Cs	0.09653333 TIA-222-H 2.7.7.1.1
Ke	1.00				
Kp	0.95				
Kv	0.9				

Appurtenance Information

Model	Shielded	% Shielded	Centerline	Centerline on MP	Spacing (in)	Azimuth	Sector	Quantity	MP #
AIR 32 B2A/B66AA			128	3	40		A/B/C	1	3
AIR649 B41			128	3	20		A/B/C	1	4
ETISSON AIR 21 B2A B4P			128	3	40		A/B/C	1	1
APXMAAR824_49U-NA20			128	5.5	80		A/B/C	1	2
Radio 4449 B71 BBSA_T-MOBILE			128	5.5			A/B/C	1	2
RRUS 4415 B25_CCIV2			128	5.5			A/B/C	1	2
ATMAA3412D-1A20			126	1.5			A/B/C	1	1

Mount Information

Elevation (ft)	126	Grating Thickness (in)	1
Kz	1.06	Grating Ice Weight (lb/ft ²)	0.020
Ktz	1.14		
tz	1.72		

Length (ft)	Width (in)	Centerline
Mount Pipes	6	2.875
		128

Flat Members

Member	Length (ft)	Width (in)	Shape	A	B	C	D	Frame Member	# of Members
FACE ON	12	5	Channel	2	5	0.375	0.375	Yes	2
FACE OFF	12	5	Channel	2	5	0.375	0.375	No	1
RAIL ON	12.59	3	Angle	3	0.25			Yes	6
RAIL OFF	12.59	3	Angle	3	0.25			No	3
SO	5.85	4	Square HSS	4	0.25	4		No	3
PLATE	1.4	0.5	Channel		0.5		9	No	3
SUP	5.7	4	Angle	3	0.25			No	2
CORNER	5.9	4	Channel	1.5	4	0.375	0.375	No	1
KICKER MOD	3.824	2.5	D. Angle	2.5	0.1875	0.1875		No	3



Appurtenance Wind Calculations

Model	Height	Width	Depth	Weight (lbs)	Kz	qz (lb/ft ²)	(EPA) _w (ft ⁴)	(EPA) _e (ft ⁴)	Wind Force (Kips)				
									Front	Side	Gamma		
AIR 32 B2A/B66AA	56.6	13.9	8.7	132.2	1.06	40.20	5.86	4.24	0.236	0.171	0.219	0.219	0.171
AIR6449 B41	33.1	20.6	8.6	104.0	1.06	40.20	5.11	2.24	0.206	0.090	0.177	0.177	0.090
Ericsson AIR 21 B2A B4P	56.0	12.1	7.9	91.5	1.06	40.20	5.48	3.87	0.220	0.155	0.204	0.204	0.155
APXVAARR24_A3-U-NA20	95.9	24.0	8.7	96.8	1.06	40.20	14.67	5.32	0.590	0.214	0.496	0.496	0.214
Radio 4449 B71 B85A_T-MO	17.9	13.2	10.6	75.2	1.06	40.20	1.77	1.43	0.071	0.057	0.068	0.068	0.057
RRUS 4415 B2S_CCVZ	16.5	13.4	5.9	46.0	1.06	40.20	1.66	0.74	0.067	0.030	0.057	0.057	0.030
ATMAA1412D-1A20	10.1	8.7	2.8	8.4	1.06	40.02	0.66	0.22	0.026	0.009	0.022	0.022	0.009

Appurtenance Ice Calculations

Model	tiz (in)	Height	Width	Depth	Weight (lbs)	Kiz	qz (lb/ft ²)	(EPA) _w (ft ⁴)	(EPA) _e (ft ⁴)	Wind Force (Kips)				
										Front	Side	Gamma		
AIR 32 B2A/B66AA	1.72	60.04	16.34	12.14	175.84	1.15	6.43	4.45	3.44	0.029	0.022	0.027	0.027	0.022
AIR6449 B41	1.72	36.54	24.04	12.04	152.48	1.15	6.43	3.85	1.96	0.025	0.013	0.022	0.022	0.013
Ericsson AIR 21 B2A B4P	1.72	59.44	15.54	11.31	165.48	1.15	6.43	4.21	3.20	0.027	0.021	0.025	0.025	0.021
APXVAARR24_A3-U-NA20	1.72	99.94	27.44	12.14	422.89	1.15	6.43	15.63	6.91	0.101	0.044	0.087	0.087	0.044
Radio 4449 B71 B85A_T-MO	1.72	21.35	16.64	14.07	80.42	1.15	6.43	1.56	1.32	0.010	0.008	0.010	0.010	0.008
RRUS 4415 B2S_CCVZ	1.72	19.94	16.84	9.34	59.26	1.15	6.43	1.47	0.82	0.009	0.005	0.008	0.008	0.005
ATMAA1412D-1A20	1.72	13.54	12.14	6.24	25.22	1.14	6.40	0.72	0.37	0.005	0.002	0.004	0.004	0.002

Flat Members

Member	q _i (lb/ft ²)	Af	Cf	Wind Calculations		Load (k/ft)	Ice Calculations						
				EPA	Load (k/ft)		Width (in)	Weight (k/ft)	q _i (lb/ft ²)	Arice	Rice	Cf	EPA
FACE ON	40.02	10.00	2.00	9.00	0.030	8.43	0.02	6.40	16.86	0.85	2.00	12.92	0.007
FACE OFF	40.02	5.00	2.00	9.00	0.015	8.43	0.02	6.40	8.43	0.85	2.00	12.92	0.003
RAIL ON	40.02	18.89	2.00	5.67	0.018	6.43	0.01	6.40	40.48	0.85	2.00	10.34	0.005
RAIL OFF	40.02	9.44	2.00	5.67	0.009	6.43	0.01	6.40	20.24	0.85	2.00	10.34	0.003
SO	40.02	5.85	1.25	2.19	0.008	7.43	0.02	6.40	10.87	0.85	1.25	3.47	0.002
PLATE	40.02	0.18	2.00	0.11	0.002	3.93	0.02	6.40	1.38	0.85	2.00	0.70	0.002
SLIP	40.02	3.80	2.00	3.42	0.012	7.43	0.01	6.40	7.06	0.85	2.00	5.41	0.003
CORNER	40.02	1.97	2.00	3.54	0.012	7.43	0.01	6.40	3.65	0.85	2.00	5.60	0.003
KICKER MOD	40.02	2.39	2.00	1.43	0.008	5.83	0.02	6.40	5.67	0.85	2.00	2.90	0.002

Appurtenance Seismic Calculations

Model	Weight	Sds	p	Cs	As	Ev	Eh
AIR 32 B2A/B66AA	132.2	0.193	1.000	0.097	1.000	0.005	0.013
AIR6449 B41	104.0	0.193	1.000	0.097	1.000	0.004	0.010
Ericsson AIR 21 B2A B4P	91.5	0.193	1.000	0.097	1.000	0.004	0.009
APXVAARR24_A3-U-NA20	96.8	0.193	1.000	0.097	1.000	0.004	0.009
Radio 4449 B71 B85A_T-MO	75.2	0.193	1.000	0.097	1.000	0.003	0.007
RRUS 4415 B2S_CCVZ	46.0	0.193	1.000	0.097	1.000	0.002	0.004
ATMAA1412D-1A20	8.4	0.193	1.000	0.097	1.000	0.000	0.001

APPENDIX C

Software Analysis Output

Hot Rolled Steel Design Parameters

	Label	Shape	Lengt...	Lbyy[ft]	Lbzz[ft]	Lcomp top[ft]	Lcomp bot[ft]	L-tor...	Kyy	Kzz	Cb	Func...
1	SUP2	L4X3X4	5.752			Lbyy						Lateral
2	SUP1	L4X3X4	5.752			Lbyy						Lateral
3	SO3	HSS4X4...	5.85			Lbyy						Lateral
4	SO2	HSS4X4...	5.85			Lbyy						Lateral
5	SO1	HSS4X4...	5.85			Lbyy						Lateral
6	RAIL3c	L3X3X4	12.599			Lbyy						Lateral
7	RAIL3b	L3X3X4	12.599			Lbyy						Lateral
8	RAIL3a	L3X3X4	12.599			Lbyy						Lateral
9	RAIL2c	L3X3X4	12.599			Lbyy						Lateral
10	RAIL2b	L3X3X4	12.599			Lbyy						Lateral
11	RAIL2a	L3X3X4	12.599			Lbyy						Lateral
12	RAIL1c	L3X3X4	12.599			Lbyy						Lateral
13	RAIL1b	L3X3X4	12.599			Lbyy						Lateral
14	RAIL1a	L3X3X4	12.599			Lbyy						Lateral
15	PLATE3	9x0.5	1.425			Lbyy						Lateral
16	PLATE2	9x0.5	1.425			Lbyy						Lateral
17	PLATE1	9x0.5	1.425			Lbyy						Lateral
18	MP GAMMA4	PIPE_2.5	6			Lbyy						Lateral
19	MP GAMMA3	PIPE_2.5	6			Lbyy						Lateral
20	MP GAMMA2	PIPE_2.5	10			Lbyy						Lateral
21	MP GAMMA1	PIPE_2.5	6			Lbyy						Lateral
22	MP BETA4	PIPE_2.5	6			Lbyy						Lateral
23	MP BETA3	PIPE_2.5	6			Lbyy						Lateral
24	MP BETA2	PIPE_2.5	10			Lbyy						Lateral
25	MP BETA1	PIPE_2.5	6			Lbyy						Lateral
26	MP ALPHA4	PIPE_2.5	6			Lbyy						Lateral
27	MP ALPHA3	PIPE_2.5	6			Lbyy						Lateral
28	MP ALPHA2	PIPE_2.5	10			Lbyy						Lateral
29	MP ALPHA1	PIPE_2.5	6			Lbyy						Lateral
30	KICKER3	LL2.5x2....	3.824			Lbyy						Lateral
31	KICKER2	LL2.5x2....	3.824			Lbyy						Lateral
32	KICKER1	LL2.5x2....	3.824			Lbyy						Lateral
33	FACE3	C5X9	12			Lbyy						Lateral
34	FACE2	C5X9	12			Lbyy						Lateral
35	FACE1	C5X9	12			Lbyy						Lateral
36	CORNER	C4X4.5	5.957			Lbyy						Lateral

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotat...	Section/Shape	Type	Design List	Material	Design Rules
1	SUP2	N74A	N69B		270	L4X3X4	Beam	Single Angle	A36 Gr.36	Typical
2	SUP1	N70B	N73A		90	L4X3X4	Beam	Single Angle	A36 Gr.36	Typical
3	SO3	N18	N17			HSS4X4X4	Beam	SquareTube	A500 Gr.B Rect	Typical
4	SO2	N78	N77			HSS4X4X4	Beam	SquareTube	A500 Gr.B Rect	Typical
5	SO1	N48	N47			HSS4X4X4	Beam	SquareTube	A500 Gr.B Rect	Typical
6	RAIL3c	N74	N72		90	L3X3X4	Beam	Single Angle	A36 Gr.36	Typical
7	RAIL3b	N65	N63		90	L3X3X4	Beam	Single Angle	A36 Gr.36	Typical
8	RAIL3a	N68	N68A		90	L3X3X4	Beam	Single Angle	A36 Gr.36	Typical
9	RAIL2c	N72	N73		90	L3X3X4	Beam	Single Angle	A36 Gr.36	Typical
10	RAIL2b	N63	N64		90	L3X3X4	Beam	Single Angle	A36 Gr.36	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotat...	Section/Shape	Type	Design List	Material	Design Rules
11	RAIL2a	N68A	N66		90	L3X3X4	Beam	Single Angle	A36 Gr.36	Typical
12	RAIL1c	N73	N74		270	L3X3X4	Beam	Single Angle	A36 Gr.36	Typical
13	RAIL1b	N64	N65		270	L3X3X4	Beam	Single Angle	A36 Gr.36	Typical
14	RAIL1a	N66	N68		270	L3X3X4	Beam	Single Angle	A36 Gr.36	Typical
15	PLATE3	N75	N76			9x0.5	Beam	RECT	A36 Gr.36	Typical
16	PLATE2	N45	N46			9x0.5	Beam	RECT	A36 Gr.36	Typical
17	PLATE1	N15	N16			9x0.5	Beam	RECT	A36 Gr.36	Typical
18	MP GAMMA4	N90	N87			PIPE 2.5	Beam	Pipe	A53 Gr.B	Typical
19	MP GAMMA3	N115	N114			PIPE 2.5	Beam	Pipe	A53 Gr.B	Typical
20	MP GAMMA2	N92	N89			PIPE 2.5	Beam	Pipe	A53 Gr.B	Typical
21	MP GAMMA1	N91	N88			PIPE 2.5	Beam	Pipe	A53 Gr.B	Typical
22	MP BETA4	N131	N128			PIPE 2.5	Beam	Pipe	A53 Gr.B	Typical
23	MP BETA3	N156	N155			PIPE 2.5	Beam	Pipe	A53 Gr.B	Typical
24	MP BETA2	N133	N130			PIPE 2.5	Beam	Pipe	A53 Gr.B	Typical
25	MP BETA1	N132	N129			PIPE 2.5	Beam	Pipe	A53 Gr.B	Typical
26	MP ALPHA4	N33	N29A			PIPE 2.5	Beam	Pipe	A53 Gr.B	Typical
27	MP ALPHA3	N74B	N73B			PIPE 2.5	Beam	Pipe	A53 Gr.B	Typical
28	MP ALPHA2	N36	N32			PIPE 2.5	Beam	Pipe	A53 Gr.B	Typical
29	MP ALPHA1	N34	N30			PIPE 2.5	Beam	Pipe	A53 Gr.B	Typical
30	M98	N178	N180		120	RIGID	None	None	RIGID	Typical
31	M97	N177	N179			RIGID	None	None	RIGID	Typical
32	M95	N173	N175		240	RIGID	None	None	RIGID	Typical
33	M94	N172	N174		180	RIGID	None	None	RIGID	Typical
34	M92	N168	N170			RIGID	None	None	RIGID	Typical
35	M91	N167	N169			RIGID	None	None	RIGID	Typical
36	M90	N46	N164			RIGID	None	None	RIGID	Typical
37	M89	N45	N163			RIGID	None	None	RIGID	Typical
38	M88	N75	N165			RIGID	None	None	RIGID	Typical
39	M87	N76	N166			RIGID	None	None	RIGID	Typical
40	M86	N16	N162A			RIGID	None	None	RIGID	Typical
41	M85	N15	N161A			RIGID	None	None	RIGID	Typical
42	M84	N162	N161			RIGID	None	None	RIGID	Typical
43	M83	N160	N159			RIGID	None	None	RIGID	Typical
44	M82	N158	N157			RIGID	None	None	RIGID	Typical
45	M81	N153	N154			RIGID	None	None	RIGID	Typical
46	M79	N150	N147			RIGID	None	None	RIGID	Typical
47	M78	N151	N148			RIGID	None	None	RIGID	Typical
48	M77	N152	N149			RIGID	None	None	RIGID	Typical
49	M76	N144	N141			RIGID	None	None	RIGID	Typical
50	M75	N145	N142			RIGID	None	None	RIGID	Typical
51	M74	N146	N143			RIGID	None	None	RIGID	Typical
52	M73	N138	N134			RIGID	None	None	RIGID	Typical
53	M72	N139	N135			RIGID	None	None	RIGID	Typical
54	M71	N140	N136			RIGID	None	None	RIGID	Typical
55	M70	N122	N123A			RIGID	None	None	RIGID	Typical
56	M69A	N124	N125			RIGID	None	None	RIGID	Typical
57	M69	N119B	N110			RIGID	None	None	RIGID	Typical
58	M68A	N126	N127			RIGID	None	None	RIGID	Typical
59	M68	N121A	N112			RIGID	None	None	RIGID	Typical
60	M67	N123	N116			RIGID	None	None	RIGID	Typical
61	M64	N121	N120			RIGID	None	None	RIGID	Typical
62	M63	N119	N118			RIGID	None	None	RIGID	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotat...	Section/Shape	Type	Design List	Material	Design Rules
63	M62	N117	N116A			RIGID	None	None	RIGID	Typical
64	M61	N112B	N113			RIGID	None	None	RIGID	Typical
65	M59	N109	N106			RIGID	None	None	RIGID	Typical
66	M58	N110A	N107			RIGID	None	None	RIGID	Typical
67	M57	N111	N108			RIGID	None	None	RIGID	Typical
68	M56	N103	N100A			RIGID	None	None	RIGID	Typical
69	M55	N104	N101A			RIGID	None	None	RIGID	Typical
70	M54	N105	N102A			RIGID	None	None	RIGID	Typical
71	M53	N97A	N93			RIGID	None	None	RIGID	Typical
72	M52	N98A	N94			RIGID	None	None	RIGID	Typical
73	M51	N99A	N95			RIGID	None	None	RIGID	Typical
74	M50	N81	N82			RIGID	None	None	RIGID	Typical
75	M49	N83	N84			RIGID	None	None	RIGID	Typical
76	M48	N85	N86			RIGID	None	None	RIGID	Typical
77	M44A	N80	N79			RIGID	None	None	RIGID	Typical
78	M44	N69	N66A			RIGID	None	None	RIGID	Typical
79	M43A	N78A	N77A			RIGID	None	None	RIGID	Typical
80	M43	N70	N67			RIGID	None	None	RIGID	Typical
81	M42A	N76A	N75A			RIGID	None	None	RIGID	Typical
82	M42	N71	N68B			RIGID	None	None	RIGID	Typical
83	M41	N71A	N72A			RIGID	None	None	RIGID	Typical
84	M38	N60	N57			RIGID	None	None	RIGID	Typical
85	M37	N61	N58			RIGID	None	None	RIGID	Typical
86	M36	N62	N59			RIGID	None	None	RIGID	Typical
87	KICKER3	N169	N170		180	LL2.5x2.5x3x3	Beam	Double Angle (3/8 Ga..	A36 Gr.36	Typical
88	KICKER2	N179	N180		75.985	LL2.5x2.5x3x3	Beam	Double Angle (3/8 Ga..	A36 Gr.36	Typical
89	KICKER1	N174	N175		284.0...	LL2.5x2.5x3x3	Beam	Double Angle (3/8 Ga..	A36 Gr.36	Typical
90	FACE3	N3	N4		90	C5X9	Beam	Channel	A36 Gr.36	Typical
91	FACE2	N5	N6		90	C5X9	Beam	Channel	A36 Gr.36	Typical
92	FACE1	N1	N2		270	C5X9	Beam	Channel	A36 Gr.36	Typical
93	CORNER	N70A	N69A		270	C4X4.5	Beam	Channel	A36 Gr.36	Typical
94	19	N101	N102			RIGID	None	None	RIGID	Typical
95	18	N99	N100			RIGID	None	None	RIGID	Typical
96	17	N97	N98			RIGID	None	None	RIGID	Typical
97	3	N13	N14			RIGID	None	None	RIGID	Typical
98	2	N9	N10			RIGID	None	None	RIGID	Typical
99	1	N7	N8			RIGID	None	None	RIGID	Typical

Member Advanced Data

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physic...	Defl Ratio Op...	Analysis Offset[in]	Inactive	Seismi...
1	SUP2						Yes				None
2	SUP1						Yes				None
3	SO3						Yes				None
4	SO2						Yes				None
5	SO1						Yes				None
6	RAIL3c	OOOOXO	OOOOXO				Yes	Default			None
7	RAIL3b	OOOOXO	OOOOXO				Yes	Default			None
8	RAIL3a	OOOOXO	OOOOXO				Yes	Default			None
9	RAIL2c	OOOOXO	OOOOXO				Yes	Default			None
10	RAIL2b	OOOOXO	OOOOXO				Yes	Default			None



Company : POD
 Designer : LT
 Job Number : 20-65646
 Model Name : 806369

June 19, 2020
 11:09 AM
 Checked By: _____

Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physic...	Defl Ratio Op...	Analysis	Offset[in]	Inactive	Seismi...
11	RAIL2a	0000X0	0000X0				Yes	Default				None
12	RAIL1c	0000X0	0000X0				Yes	Default				None
13	RAIL1b	0000X0	0000X0				Yes	Default				None
14	RAIL1a	0000X0	0000X0				Yes	Default				None
15	PLATE3						Yes	Default				None
16	PLATE2						Yes	Default				None
17	PLATE1						Yes	Default				None
18	MP GAMMA4						Yes					None
19	MP GAMMA3						Yes					None
20	MP GAMMA2						Yes					None
21	MP GAMMA1						Yes					None
22	MP BETA4						Yes					None
23	MP BETA3						Yes					None
24	MP BETA2						Yes					None
25	MP BETA1						Yes					None
26	MP ALPHA4						Yes					None
27	MP ALPHA3						Yes					None
28	MP ALPHA2						Yes					None
29	MP ALPHA1						Yes					None
30	M98						Yes	** NA **				None
31	M97						Yes	** NA **				None
32	M95						Yes	** NA **				None
33	M94						Yes	** NA **				None
34	M92						Yes	** NA **				None
35	M91						Yes	** NA **				None
36	M90						Yes	** NA **				None
37	M89						Yes	** NA **				None
38	M88						Yes	** NA **				None
39	M87						Yes	** NA **				None
40	M86						Yes	** NA **				None
41	M85						Yes	** NA **				None
42	M84		000X00				Yes	** NA **				None
43	M83		000X00				Yes	** NA **				None
44	M82		000X00				Yes	** NA **				None
45	M81						Yes	** NA **				None
46	M79		000X00				Yes	** NA **				None
47	M78		000X00				Yes	** NA **				None
48	M77		000X00				Yes	** NA **				None
49	M76		000X00				Yes	** NA **				None
50	M75		000X00				Yes	** NA **				None
51	M74		000X00				Yes	** NA **				None
52	M73		000X00				Yes	** NA **				None
53	M72		000X00				Yes	** NA **				None
54	M71		000X00				Yes	** NA **				None
55	M70						Yes	** NA **				None
56	M69A						Yes	** NA **				None
57	M69		000X00				Yes	** NA **				None
58	M68A						Yes	** NA **				None
59	M68		000X00				Yes	** NA **				None
60	M67		000X00				Yes	** NA **				None
61	M64		000X00				Yes	** NA **				None
62	M63		000X00				Yes	** NA **				None

Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physic...	Defl Ratio Op...	Analysis Offset[in]	Inactive	Seismi...
63	M62		000X00				Yes	** NA **			None
64	M61						Yes	** NA **			None
65	M59		000X00				Yes	** NA **			None
66	M58		000X00				Yes	** NA **			None
67	M57		000X00				Yes	** NA **			None
68	M56		000X00				Yes	** NA **			None
69	M55		000X00				Yes	** NA **			None
70	M54		000X00				Yes	** NA **			None
71	M53		000X00				Yes	** NA **			None
72	M52		000X00				Yes	** NA **			None
73	M51		000X00				Yes	** NA **			None
74	M50						Yes	** NA **			None
75	M49						Yes	** NA **			None
76	M48						Yes	** NA **			None
77	M44A		000X00				Yes	** NA **			None
78	M44		000X00				Yes	** NA **			None
79	M43A		000X00				Yes	** NA **			None
80	M43		000X00				Yes	** NA **			None
81	M42A		000X00				Yes	** NA **			None
82	M42		000X00				Yes	** NA **			None
83	M41						Yes	** NA **			None
84	M38		000X00				Yes	** NA **			None
85	M37		000X00				Yes	** NA **			None
86	M36		000X00				Yes	** NA **			None
87	KICKER3	00000X	00000X				Yes	Default			None
88	KICKER2	00000X	00000X				Yes	Default			None
89	KICKER1	00000X	00000X				Yes	Default			None
90	FACE3						Yes				None
91	FACE2						Yes				None
92	FACE1						Yes	Default			None
93	CORNER						Yes	Default			None
94	19						Yes	** NA **			None
95	18						Yes	** NA **			None
96	17						Yes	** NA **			None
97	3						Yes	** NA **			None
98	2						Yes	** NA **			None
99	1						Yes	** NA **			None

Hot Rolled Steel Properties

	Label	E [ksj]	G [ksj]	Nu	Therm (/1... Density[k/f...	Yield[ksj]	Ry	Fu[ksj]	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

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 ALPHA3	Y	-.118	4.667
2	MP ALPHA3	Y	-.118	1.333
3	MP BETA3	Y	-.093	4.667
4	MP BETA3	Y	-.093	1.333
5	MP GAMMA3	Y	-.093	4.667
6	MP GAMMA3	Y	-.093	1.333
7	MP ALPHA4	Y	-.103	3.833
8	MP ALPHA4	Y	-.103	2.167
9	MP BETA4	Y	-.059	3.833
10	MP BETA4	Y	-.059	2.167
11	MP GAMMA4	Y	-.059	3.833
12	MP GAMMA4	Y	-.059	2.167
13	MP ALPHA1	Y	-.11	4.667
14	MP ALPHA1	Y	-.11	1.333
15	MP BETA1	Y	-.086	4.667
16	MP BETA1	Y	-.086	1.333
17	MP GAMMA1	Y	-.086	4.667
18	MP GAMMA1	Y	-.086	1.333
19	MP ALPHA2	Y	-.295	8.833
20	MP ALPHA2	Y	-.295	2.167
21	MP BETA2	Y	-.154	8.833
22	MP BETA2	Y	-.154	2.167
23	MP GAMMA2	Y	-.154	8.833
24	MP GAMMA2	Y	-.154	2.167
25	MP ALPHA2	Y	-.071	5.5
26	MP BETA2	Y	-.061	5.5
27	MP GAMMA2	Y	-.061	5.5
28	MP ALPHA2	Y	-.067	5.5
29	MP BETA2	Y	-.039	5.5
30	MP GAMMA2	Y	-.039	5.5
31	MP ALPHA1	Y	-.026	1.5
32	MP BETA1	Y	-.013	1.5
33	MP GAMMA1	Y	-.013	1.5

Member Point Loads (BLC 3 : Dead Load)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	Z	-.066	4.667
2	MP ALPHA3	Z	-.066	1.333
3	MP BETA3	Z	-.066	4.667
4	MP BETA3	Z	-.066	1.333
5	MP GAMMA3	Z	-.066	4.667
6	MP GAMMA3	Z	-.066	1.333
7	MP ALPHA4	Z	-.052	3.833
8	MP ALPHA4	Z	-.052	2.167
9	MP BETA4	Z	-.052	3.833
10	MP BETA4	Z	-.052	2.167

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
11	MP GAMMA4	Z	-.052	3.833
12	MP GAMMA4	Z	-.052	2.167
13	MP ALPHA1	Z	-.046	4.667
14	MP ALPHA1	Z	-.046	1.333
15	MP BETA1	Z	-.046	4.667
16	MP BETA1	Z	-.046	1.333
17	MP GAMMA1	Z	-.046	4.667
18	MP GAMMA1	Z	-.046	1.333
19	MP ALPHA2	Z	-.048	8.833
20	MP ALPHA2	Z	-.048	2.167
21	MP BETA2	Z	-.048	8.833
22	MP BETA2	Z	-.048	2.167
23	MP GAMMA2	Z	-.048	8.833
24	MP GAMMA2	Z	-.048	2.167
25	MP ALPHA2	Z	-.073	5.5
26	MP BETA2	Z	-.073	5.5
27	MP GAMMA2	Z	-.073	5.5
28	MP ALPHA2	Z	-.046	5.5
29	MP BETA2	Z	-.046	5.5
30	MP GAMMA2	Z	-.046	5.5
31	MP ALPHA1	Z	-.008	1.5
32	MP BETA1	Z	-.008	1.5
33	MP GAMMA1	Z	-.008	1.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	MP ALPHA3	Y	-.095	4.667
2	MP ALPHA3	Y	-.095	1.333
3	MP ALPHA3	X	-.055	4.667
4	MP ALPHA3	X	-.055	1.333
5	MP BETA3	Y	-.074	4.667
6	MP BETA3	Y	-.074	1.333
7	MP BETA3	X	-.043	4.667
8	MP BETA3	X	-.043	1.333
9	MP GAMMA3	Y	-.095	4.667
10	MP GAMMA3	Y	-.095	1.333
11	MP GAMMA3	X	-.055	4.667
12	MP GAMMA3	X	-.055	1.333
13	MP ALPHA4	Y	-.077	3.833
14	MP ALPHA4	Y	-.077	2.167
15	MP ALPHA4	X	-.044	3.833
16	MP ALPHA4	X	-.044	2.167
17	MP BETA4	Y	-.039	3.833
18	MP BETA4	Y	-.039	2.167
19	MP BETA4	X	-.023	3.833
20	MP BETA4	X	-.023	2.167
21	MP GAMMA4	Y	-.077	3.833
22	MP GAMMA4	Y	-.077	2.167
23	MP GAMMA4	X	-.044	3.833
24	MP GAMMA4	X	-.044	2.167
25	MP ALPHA1	Y	-.088	4.667

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
26	MP ALPHA1	Y	-.088	1.333
27	MP ALPHA1	X	-.051	4.667
28	MP ALPHA1	X	-.051	1.333
29	MP BETA1	Y	-.067	4.667
30	MP BETA1	Y	-.067	1.333
31	MP BETA1	X	-.039	4.667
32	MP BETA1	X	-.039	1.333
33	MP GAMMA1	Y	-.088	4.667
34	MP GAMMA1	Y	-.088	1.333
35	MP GAMMA1	X	-.051	4.667
36	MP GAMMA1	X	-.051	1.333
37	MP ALPHA2	Y	-.215	8.833
38	MP ALPHA2	Y	-.215	2.167
39	MP ALPHA2	X	-.124	8.833
40	MP ALPHA2	X	-.124	2.167
41	MP BETA2	Y	-.093	8.833
42	MP BETA2	Y	-.093	2.167
43	MP BETA2	X	-.053	8.833
44	MP BETA2	X	-.053	2.167
45	MP GAMMA2	Y	-.215	8.833
46	MP GAMMA2	Y	-.215	2.167
47	MP GAMMA2	X	-.124	8.833
48	MP GAMMA2	X	-.124	2.167
49	MP ALPHA2	Y	-.059	5.5
50	MP ALPHA2	X	-.034	5.5
51	MP BETA2	Y	-.05	5.5
52	MP BETA2	X	-.029	5.5
53	MP GAMMA2	Y	-.059	5.5
54	MP GAMMA2	X	-.034	5.5
55	MP ALPHA2	Y	-.05	5.5
56	MP ALPHA2	X	-.029	5.5
57	MP BETA2	Y	-.026	5.5
58	MP BETA2	X	-.015	5.5
59	MP GAMMA2	Y	-.05	5.5
60	MP GAMMA2	X	-.029	5.5
61	MP ALPHA1	Y	-.019	1.5
62	MP ALPHA1	X	-.011	1.5
63	MP BETA1	Y	-.008	1.5
64	MP BETA1	X	-.004	1.5
65	MP GAMMA1	Y	-.019	1.5
66	MP GAMMA1	X	-.011	1.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	MP ALPHA3	Y	-.047	4.667
2	MP ALPHA3	Y	-.047	1.333
3	MP ALPHA3	X	-.081	4.667
4	MP ALPHA3	X	-.081	1.333
5	MP BETA3	Y	-.047	4.667
6	MP BETA3	Y	-.047	1.333
7	MP BETA3	X	-.081	4.667

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
8	MP BETA3	X	-.081	1.333
9	MP GAMMA3	Y	-.059	4.667
10	MP GAMMA3	Y	-.059	1.333
11	MP GAMMA3	X	-.102	4.667
12	MP GAMMA3	X	-.102	1.333
13	MP ALPHA4	Y	-.03	3.833
14	MP ALPHA4	Y	-.03	2.167
15	MP ALPHA4	X	-.052	3.833
16	MP ALPHA4	X	-.052	2.167
17	MP BETA4	Y	-.03	3.833
18	MP BETA4	Y	-.03	2.167
19	MP BETA4	X	-.052	3.833
20	MP BETA4	X	-.052	2.167
21	MP GAMMA4	Y	-.051	3.833
22	MP GAMMA4	Y	-.051	2.167
23	MP GAMMA4	X	-.089	3.833
24	MP GAMMA4	X	-.089	2.167
25	MP ALPHA1	Y	-.043	4.667
26	MP ALPHA1	Y	-.043	1.333
27	MP ALPHA1	X	-.074	4.667
28	MP ALPHA1	X	-.074	1.333
29	MP BETA1	Y	-.043	4.667
30	MP BETA1	Y	-.043	1.333
31	MP BETA1	X	-.074	4.667
32	MP BETA1	X	-.074	1.333
33	MP GAMMA1	Y	-.055	4.667
34	MP GAMMA1	Y	-.055	1.333
35	MP GAMMA1	X	-.095	4.667
36	MP GAMMA1	X	-.095	1.333
37	MP ALPHA2	Y	-.077	8.833
38	MP ALPHA2	Y	-.077	2.167
39	MP ALPHA2	X	-.133	8.833
40	MP ALPHA2	X	-.133	2.167
41	MP BETA2	Y	-.077	8.833
42	MP BETA2	Y	-.077	2.167
43	MP BETA2	X	-.133	8.833
44	MP BETA2	X	-.133	2.167
45	MP GAMMA2	Y	-.147	8.833
46	MP GAMMA2	Y	-.147	2.167
47	MP GAMMA2	X	-.255	8.833
48	MP GAMMA2	X	-.255	2.167
49	MP ALPHA2	Y	-.03	5.5
50	MP ALPHA2	X	-.053	5.5
51	MP BETA2	Y	-.03	5.5
52	MP BETA2	X	-.053	5.5
53	MP GAMMA2	Y	-.036	5.5
54	MP GAMMA2	X	-.062	5.5
55	MP ALPHA2	Y	-.019	5.5
56	MP ALPHA2	X	-.034	5.5
57	MP BETA2	Y	-.019	5.5
58	MP BETA2	X	-.034	5.5
59	MP GAMMA2	Y	-.033	5.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
60	MP GAMMA2	X	-.058	5.5
61	MP ALPHA1	Y	-.007	1.5
62	MP ALPHA1	X	-.011	1.5
63	MP BETA1	Y	-.007	1.5
64	MP BETA1	X	-.011	1.5
65	MP GAMMA1	Y	-.013	1.5
66	MP GAMMA1	X	-.023	1.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	MP ALPHA3	X	-.085	4.667
2	MP ALPHA3	X	-.085	1.333
3	MP BETA3	X	-.11	4.667
4	MP BETA3	X	-.11	1.333
5	MP GAMMA3	X	-.11	4.667
6	MP GAMMA3	X	-.11	1.333
7	MP ALPHA4	X	-.045	3.833
8	MP ALPHA4	X	-.045	2.167
9	MP BETA4	X	-.088	3.833
10	MP BETA4	X	-.088	2.167
11	MP GAMMA4	X	-.088	3.833
12	MP GAMMA4	X	-.088	2.167
13	MP ALPHA1	X	-.078	4.667
14	MP ALPHA1	X	-.078	1.333
15	MP BETA1	X	-.102	4.667
16	MP BETA1	X	-.102	1.333
17	MP GAMMA1	X	-.102	4.667
18	MP GAMMA1	X	-.102	1.333
19	MP ALPHA2	X	-.107	8.833
20	MP ALPHA2	X	-.107	2.167
21	MP BETA2	X	-.248	8.833
22	MP BETA2	X	-.248	2.167
23	MP GAMMA2	X	-.248	8.833
24	MP GAMMA2	X	-.248	2.167
25	MP ALPHA2	X	-.057	5.5
26	MP BETA2	X	-.068	5.5
27	MP GAMMA2	X	-.068	5.5
28	MP ALPHA2	X	-.03	5.5
29	MP BETA2	X	-.057	5.5
30	MP GAMMA2	X	-.057	5.5
31	MP ALPHA1	X	-.009	1.5
32	MP BETA1	X	-.022	1.5
33	MP GAMMA1	X	-.022	1.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	MP ALPHA3	Y	.047	4.667
2	MP ALPHA3	Y	.047	1.333
3	MP ALPHA3	X	-.081	4.667
4	MP ALPHA3	X	-.081	1.333
5	MP BETA3	Y	.059	4.667

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
6	MP BETA3	Y	.059	1.333
7	MP BETA3	X	-.102	4.667
8	MP BETA3	X	-.102	1.333
9	MP GAMMA3	Y	.047	4.667
10	MP GAMMA3	Y	.047	1.333
11	MP GAMMA3	X	-.081	4.667
12	MP GAMMA3	X	-.081	1.333
13	MP ALPHA4	Y	.03	3.833
14	MP ALPHA4	Y	.03	2.167
15	MP ALPHA4	X	-.052	3.833
16	MP ALPHA4	X	-.052	2.167
17	MP BETA4	Y	.051	3.833
18	MP BETA4	Y	.051	2.167
19	MP BETA4	X	-.089	3.833
20	MP BETA4	X	-.089	2.167
21	MP GAMMA4	Y	.03	3.833
22	MP GAMMA4	Y	.03	2.167
23	MP GAMMA4	X	-.052	3.833
24	MP GAMMA4	X	-.052	2.167
25	MP ALPHA1	Y	.043	4.667
26	MP ALPHA1	Y	.043	1.333
27	MP ALPHA1	X	-.074	4.667
28	MP ALPHA1	X	-.074	1.333
29	MP BETA1	Y	.055	4.667
30	MP BETA1	Y	.055	1.333
31	MP BETA1	X	-.095	4.667
32	MP BETA1	X	-.095	1.333
33	MP GAMMA1	Y	.043	4.667
34	MP GAMMA1	Y	.043	1.333
35	MP GAMMA1	X	-.074	4.667
36	MP GAMMA1	X	-.074	1.333
37	MP ALPHA2	Y	.077	8.833
38	MP ALPHA2	Y	.077	2.167
39	MP ALPHA2	X	-.133	8.833
40	MP ALPHA2	X	-.133	2.167
41	MP BETA2	Y	.147	8.833
42	MP BETA2	Y	.147	2.167
43	MP BETA2	X	-.255	8.833
44	MP BETA2	X	-.255	2.167
45	MP GAMMA2	Y	.077	8.833
46	MP GAMMA2	Y	.077	2.167
47	MP GAMMA2	X	-.133	8.833
48	MP GAMMA2	X	-.133	2.167
49	MP ALPHA2	Y	.03	5.5
50	MP ALPHA2	X	-.053	5.5
51	MP BETA2	Y	.036	5.5
52	MP BETA2	X	-.062	5.5
53	MP GAMMA2	Y	.03	5.5
54	MP GAMMA2	X	-.053	5.5
55	MP ALPHA2	Y	.019	5.5
56	MP ALPHA2	X	-.034	5.5
57	MP BETA2	Y	.033	5.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
58	MP BETA2	X	-.058	5.5
59	MP GAMMA2	Y	.019	5.5
60	MP GAMMA2	X	-.034	5.5
61	MP ALPHA1	Y	.007	1.5
62	MP ALPHA1	X	-.011	1.5
63	MP BETA1	Y	.013	1.5
64	MP BETA1	X	-.023	1.5
65	MP GAMMA1	Y	.007	1.5
66	MP GAMMA1	X	-.011	1.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	MP ALPHA3	Y	.095	4.667
2	MP ALPHA3	Y	.095	1.333
3	MP ALPHA3	X	-.055	4.667
4	MP ALPHA3	X	-.055	1.333
5	MP BETA3	Y	.095	4.667
6	MP BETA3	Y	.095	1.333
7	MP BETA3	X	-.055	4.667
8	MP BETA3	X	-.055	1.333
9	MP GAMMA3	Y	.074	4.667
10	MP GAMMA3	Y	.074	1.333
11	MP GAMMA3	X	-.043	4.667
12	MP GAMMA3	X	-.043	1.333
13	MP ALPHA4	Y	.077	3.833
14	MP ALPHA4	Y	.077	2.167
15	MP ALPHA4	X	-.044	3.833
16	MP ALPHA4	X	-.044	2.167
17	MP BETA4	Y	.077	3.833
18	MP BETA4	Y	.077	2.167
19	MP BETA4	X	-.044	3.833
20	MP BETA4	X	-.044	2.167
21	MP GAMMA4	Y	.039	3.833
22	MP GAMMA4	Y	.039	2.167
23	MP GAMMA4	X	-.023	3.833
24	MP GAMMA4	X	-.023	2.167
25	MP ALPHA1	Y	.088	4.667
26	MP ALPHA1	Y	.088	1.333
27	MP ALPHA1	X	-.051	4.667
28	MP ALPHA1	X	-.051	1.333
29	MP BETA1	Y	.088	4.667
30	MP BETA1	Y	.088	1.333
31	MP BETA1	X	-.051	4.667
32	MP BETA1	X	-.051	1.333
33	MP GAMMA1	Y	.067	4.667
34	MP GAMMA1	Y	.067	1.333
35	MP GAMMA1	X	-.039	4.667
36	MP GAMMA1	X	-.039	1.333
37	MP ALPHA2	Y	.215	8.833
38	MP ALPHA2	Y	.215	2.167
39	MP ALPHA2	X	-.124	8.833



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
40	MP ALPHA2	X	-.124	2.167
41	MP BETA2	Y	.215	8.833
42	MP BETA2	Y	.215	2.167
43	MP BETA2	X	-.124	8.833
44	MP BETA2	X	-.124	2.167
45	MP GAMMA2	Y	.093	8.833
46	MP GAMMA2	Y	.093	2.167
47	MP GAMMA2	X	-.053	8.833
48	MP GAMMA2	X	-.053	2.167
49	MP ALPHA2	Y	.059	5.5
50	MP ALPHA2	X	-.034	5.5
51	MP BETA2	Y	.059	5.5
52	MP BETA2	X	-.034	5.5
53	MP GAMMA2	Y	.05	5.5
54	MP GAMMA2	X	-.029	5.5
55	MP ALPHA2	Y	.05	5.5
56	MP ALPHA2	X	-.029	5.5
57	MP BETA2	Y	.05	5.5
58	MP BETA2	X	-.029	5.5
59	MP GAMMA2	Y	.026	5.5
60	MP GAMMA2	X	-.015	5.5
61	MP ALPHA1	Y	.019	1.5
62	MP ALPHA1	X	-.011	1.5
63	MP BETA1	Y	.019	1.5
64	MP BETA1	X	-.011	1.5
65	MP GAMMA1	Y	.008	1.5
66	MP GAMMA1	X	-.004	1.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	MP ALPHA3	Y	.118	4.667
2	MP ALPHA3	Y	.118	1.333
3	MP BETA3	Y	.093	4.667
4	MP BETA3	Y	.093	1.333
5	MP GAMMA3	Y	.093	4.667
6	MP GAMMA3	Y	.093	1.333
7	MP ALPHA4	Y	.103	3.833
8	MP ALPHA4	Y	.103	2.167
9	MP BETA4	Y	.059	3.833
10	MP BETA4	Y	.059	2.167
11	MP GAMMA4	Y	.059	3.833
12	MP GAMMA4	Y	.059	2.167
13	MP ALPHA1	Y	.11	4.667
14	MP ALPHA1	Y	.11	1.333
15	MP BETA1	Y	.086	4.667
16	MP BETA1	Y	.086	1.333
17	MP GAMMA1	Y	.086	4.667
18	MP GAMMA1	Y	.086	1.333
19	MP ALPHA2	Y	.295	8.833
20	MP ALPHA2	Y	.295	2.167
21	MP BETA2	Y	.154	8.833



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

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
22	MP BETA2	Y	.154	2.167
23	MP GAMMA2	Y	.154	8.833
24	MP GAMMA2	Y	.154	2.167
25	MP ALPHA2	Y	.071	5.5
26	MP BETA2	Y	.061	5.5
27	MP GAMMA2	Y	.061	5.5
28	MP ALPHA2	Y	.067	5.5
29	MP BETA2	Y	.039	5.5
30	MP GAMMA2	Y	.039	5.5
31	MP ALPHA1	Y	.026	1.5
32	MP BETA1	Y	.013	1.5
33	MP GAMMA1	Y	.013	1.5

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

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
1	MP ALPHA3	Y	.095	4.667
2	MP ALPHA3	Y	.095	1.333
3	MP ALPHA3	X	.055	4.667
4	MP ALPHA3	X	.055	1.333
5	MP BETA3	Y	.074	4.667
6	MP BETA3	Y	.074	1.333
7	MP BETA3	X	.043	4.667
8	MP BETA3	X	.043	1.333
9	MP GAMMA3	Y	.095	4.667
10	MP GAMMA3	Y	.095	1.333
11	MP GAMMA3	X	.055	4.667
12	MP GAMMA3	X	.055	1.333
13	MP ALPHA4	Y	.077	3.833
14	MP ALPHA4	Y	.077	2.167
15	MP ALPHA4	X	.044	3.833
16	MP ALPHA4	X	.044	2.167
17	MP BETA4	Y	.039	3.833
18	MP BETA4	Y	.039	2.167
19	MP BETA4	X	.023	3.833
20	MP BETA4	X	.023	2.167
21	MP GAMMA4	Y	.077	3.833
22	MP GAMMA4	Y	.077	2.167
23	MP GAMMA4	X	.044	3.833
24	MP GAMMA4	X	.044	2.167
25	MP ALPHA1	Y	.088	4.667
26	MP ALPHA1	Y	.088	1.333
27	MP ALPHA1	X	.051	4.667
28	MP ALPHA1	X	.051	1.333
29	MP BETA1	Y	.067	4.667
30	MP BETA1	Y	.067	1.333
31	MP BETA1	X	.039	4.667
32	MP BETA1	X	.039	1.333
33	MP GAMMA1	Y	.088	4.667
34	MP GAMMA1	Y	.088	1.333
35	MP GAMMA1	X	.051	4.667
36	MP GAMMA1	X	.051	1.333

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
37	MP ALPHA2	Y	.215	8.833
38	MP ALPHA2	Y	.215	2.167
39	MP ALPHA2	X	.124	8.833
40	MP ALPHA2	X	.124	2.167
41	MP BETA2	Y	.093	8.833
42	MP BETA2	Y	.093	2.167
43	MP BETA2	X	.053	8.833
44	MP BETA2	X	.053	2.167
45	MP GAMMA2	Y	.215	8.833
46	MP GAMMA2	Y	.215	2.167
47	MP GAMMA2	X	.124	8.833
48	MP GAMMA2	X	.124	2.167
49	MP ALPHA2	Y	.059	5.5
50	MP ALPHA2	X	.034	5.5
51	MP BETA2	Y	.05	5.5
52	MP BETA2	X	.029	5.5
53	MP GAMMA2	Y	.059	5.5
54	MP GAMMA2	X	.034	5.5
55	MP ALPHA2	Y	.05	5.5
56	MP ALPHA2	X	.029	5.5
57	MP BETA2	Y	.026	5.5
58	MP BETA2	X	.015	5.5
59	MP GAMMA2	Y	.05	5.5
60	MP GAMMA2	X	.029	5.5
61	MP ALPHA1	Y	.019	1.5
62	MP ALPHA1	X	.011	1.5
63	MP BETA1	Y	.008	1.5
64	MP BETA1	X	.004	1.5
65	MP GAMMA1	Y	.019	1.5
66	MP GAMMA1	X	.011	1.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	MP ALPHA3	Y	.047	4.667
2	MP ALPHA3	Y	.047	1.333
3	MP ALPHA3	X	.081	4.667
4	MP ALPHA3	X	.081	1.333
5	MP BETA3	Y	.047	4.667
6	MP BETA3	Y	.047	1.333
7	MP BETA3	X	.081	4.667
8	MP BETA3	X	.081	1.333
9	MP GAMMA3	Y	.059	4.667
10	MP GAMMA3	Y	.059	1.333
11	MP GAMMA3	X	.102	4.667
12	MP GAMMA3	X	.102	1.333
13	MP ALPHA4	Y	.03	3.833
14	MP ALPHA4	Y	.03	2.167
15	MP ALPHA4	X	.052	3.833
16	MP ALPHA4	X	.052	2.167
17	MP BETA4	Y	.03	3.833
18	MP BETA4	Y	.03	2.167

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
19	MP BETA4	X	.052	3.833
20	MP BETA4	X	.052	2.167
21	MP GAMMA4	Y	.051	3.833
22	MP GAMMA4	Y	.051	2.167
23	MP GAMMA4	X	.089	3.833
24	MP GAMMA4	X	.089	2.167
25	MP ALPHA1	Y	.043	4.667
26	MP ALPHA1	Y	.043	1.333
27	MP ALPHA1	X	.074	4.667
28	MP ALPHA1	X	.074	1.333
29	MP BETA1	Y	.043	4.667
30	MP BETA1	Y	.043	1.333
31	MP BETA1	X	.074	4.667
32	MP BETA1	X	.074	1.333
33	MP GAMMA1	Y	.055	4.667
34	MP GAMMA1	Y	.055	1.333
35	MP GAMMA1	X	.095	4.667
36	MP GAMMA1	X	.095	1.333
37	MP ALPHA2	Y	.077	8.833
38	MP ALPHA2	Y	.077	2.167
39	MP ALPHA2	X	.133	8.833
40	MP ALPHA2	X	.133	2.167
41	MP BETA2	Y	.077	8.833
42	MP BETA2	Y	.077	2.167
43	MP BETA2	X	.133	8.833
44	MP BETA2	X	.133	2.167
45	MP GAMMA2	Y	.147	8.833
46	MP GAMMA2	Y	.147	2.167
47	MP GAMMA2	X	.255	8.833
48	MP GAMMA2	X	.255	2.167
49	MP ALPHA2	Y	.03	5.5
50	MP ALPHA2	X	.053	5.5
51	MP BETA2	Y	.03	5.5
52	MP BETA2	X	.053	5.5
53	MP GAMMA2	Y	.036	5.5
54	MP GAMMA2	X	.062	5.5
55	MP ALPHA2	Y	.019	5.5
56	MP ALPHA2	X	.034	5.5
57	MP BETA2	Y	.019	5.5
58	MP BETA2	X	.034	5.5
59	MP GAMMA2	Y	.033	5.5
60	MP GAMMA2	X	.058	5.5
61	MP ALPHA1	Y	.007	1.5
62	MP ALPHA1	X	.011	1.5
63	MP BETA1	Y	.007	1.5
64	MP BETA1	X	.011	1.5
65	MP GAMMA1	Y	.013	1.5
66	MP GAMMA1	X	.023	1.5

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

Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
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Member Point Loads (BLC 12 : Wind Load (270)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	MP ALPHA3	X	.085	4.667
2	MP ALPHA3	X	.085	1.333
3	MP BETA3	X	.11	4.667
4	MP BETA3	X	.11	1.333
5	MP GAMMA3	X	.11	4.667
6	MP GAMMA3	X	.11	1.333
7	MP ALPHA4	X	.045	3.833
8	MP ALPHA4	X	.045	2.167
9	MP BETA4	X	.088	3.833
10	MP BETA4	X	.088	2.167
11	MP GAMMA4	X	.088	3.833
12	MP GAMMA4	X	.088	2.167
13	MP ALPHA1	X	.078	4.667
14	MP ALPHA1	X	.078	1.333
15	MP BETA1	X	.102	4.667
16	MP BETA1	X	.102	1.333
17	MP GAMMA1	X	.102	4.667
18	MP GAMMA1	X	.102	1.333
19	MP ALPHA2	X	.107	8.833
20	MP ALPHA2	X	.107	2.167
21	MP BETA2	X	.248	8.833
22	MP BETA2	X	.248	2.167
23	MP GAMMA2	X	.248	8.833
24	MP GAMMA2	X	.248	2.167
25	MP ALPHA2	X	.057	5.5
26	MP BETA2	X	.068	5.5
27	MP GAMMA2	X	.068	5.5
28	MP ALPHA2	X	.03	5.5
29	MP BETA2	X	.057	5.5
30	MP GAMMA2	X	.057	5.5
31	MP ALPHA1	X	.009	1.5
32	MP BETA1	X	.022	1.5
33	MP GAMMA1	X	.022	1.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	MP ALPHA3	Y	-.047	4.667
2	MP ALPHA3	Y	-.047	1.333
3	MP ALPHA3	X	.081	4.667
4	MP ALPHA3	X	.081	1.333
5	MP BETA3	Y	-.059	4.667
6	MP BETA3	Y	-.059	1.333
7	MP BETA3	X	.102	4.667
8	MP BETA3	X	.102	1.333
9	MP GAMMA3	Y	-.047	4.667
10	MP GAMMA3	Y	-.047	1.333
11	MP GAMMA3	X	.081	4.667
12	MP GAMMA3	X	.081	1.333
13	MP ALPHA4	Y	-.03	3.833
14	MP ALPHA4	Y	-.03	2.167
15	MP ALPHA4	X	.052	3.833

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
16	MP ALPHA4	X	.052	2.167
17	MP BETA4	Y	-.051	3.833
18	MP BETA4	Y	-.051	2.167
19	MP BETA4	X	.089	3.833
20	MP BETA4	X	.089	2.167
21	MP GAMMA4	Y	-.03	3.833
22	MP GAMMA4	Y	-.03	2.167
23	MP GAMMA4	X	.052	3.833
24	MP GAMMA4	X	.052	2.167
25	MP ALPHA1	Y	-.043	4.667
26	MP ALPHA1	Y	-.043	1.333
27	MP ALPHA1	X	.074	4.667
28	MP ALPHA1	X	.074	1.333
29	MP BETA1	Y	-.055	4.667
30	MP BETA1	Y	-.055	1.333
31	MP BETA1	X	.095	4.667
32	MP BETA1	X	.095	1.333
33	MP GAMMA1	Y	-.043	4.667
34	MP GAMMA1	Y	-.043	1.333
35	MP GAMMA1	X	.074	4.667
36	MP GAMMA1	X	.074	1.333
37	MP ALPHA2	Y	-.077	8.833
38	MP ALPHA2	Y	-.077	2.167
39	MP ALPHA2	X	.133	8.833
40	MP ALPHA2	X	.133	2.167
41	MP BETA2	Y	-.147	8.833
42	MP BETA2	Y	-.147	2.167
43	MP BETA2	X	.255	8.833
44	MP BETA2	X	.255	2.167
45	MP GAMMA2	Y	-.077	8.833
46	MP GAMMA2	Y	-.077	2.167
47	MP GAMMA2	X	.133	8.833
48	MP GAMMA2	X	.133	2.167
49	MP ALPHA2	Y	-.03	5.5
50	MP ALPHA2	X	.053	5.5
51	MP BETA2	Y	-.036	5.5
52	MP BETA2	X	.062	5.5
53	MP GAMMA2	Y	-.03	5.5
54	MP GAMMA2	X	.053	5.5
55	MP ALPHA2	Y	-.019	5.5
56	MP ALPHA2	X	.034	5.5
57	MP BETA2	Y	-.033	5.5
58	MP BETA2	X	.058	5.5
59	MP GAMMA2	Y	-.019	5.5
60	MP GAMMA2	X	.034	5.5
61	MP ALPHA1	Y	-.007	1.5
62	MP ALPHA1	X	.011	1.5
63	MP BETA1	Y	-.013	1.5
64	MP BETA1	X	.023	1.5
65	MP GAMMA1	Y	-.007	1.5
66	MP GAMMA1	X	.011	1.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	MP ALPHA3	Y	-.095	4.667
2	MP ALPHA3	Y	-.095	1.333
3	MP ALPHA3	X	.055	4.667
4	MP ALPHA3	X	.055	1.333
5	MP BETA3	Y	-.095	4.667
6	MP BETA3	Y	-.095	1.333
7	MP BETA3	X	.055	4.667
8	MP BETA3	X	.055	1.333
9	MP GAMMA3	Y	-.074	4.667
10	MP GAMMA3	Y	-.074	1.333
11	MP GAMMA3	X	.043	4.667
12	MP GAMMA3	X	.043	1.333
13	MP ALPHA4	Y	-.077	3.833
14	MP ALPHA4	Y	-.077	2.167
15	MP ALPHA4	X	.044	3.833
16	MP ALPHA4	X	.044	2.167
17	MP BETA4	Y	-.077	3.833
18	MP BETA4	Y	-.077	2.167
19	MP BETA4	X	.044	3.833
20	MP BETA4	X	.044	2.167
21	MP GAMMA4	Y	-.039	3.833
22	MP GAMMA4	Y	-.039	2.167
23	MP GAMMA4	X	.023	3.833
24	MP GAMMA4	X	.023	2.167
25	MP ALPHA1	Y	-.088	4.667
26	MP ALPHA1	Y	-.088	1.333
27	MP ALPHA1	X	.051	4.667
28	MP ALPHA1	X	.051	1.333
29	MP BETA1	Y	-.088	4.667
30	MP BETA1	Y	-.088	1.333
31	MP BETA1	X	.051	4.667
32	MP BETA1	X	.051	1.333
33	MP GAMMA1	Y	-.067	4.667
34	MP GAMMA1	Y	-.067	1.333
35	MP GAMMA1	X	.039	4.667
36	MP GAMMA1	X	.039	1.333
37	MP ALPHA2	Y	-.215	8.833
38	MP ALPHA2	Y	-.215	2.167
39	MP ALPHA2	X	.124	8.833
40	MP ALPHA2	X	.124	2.167
41	MP BETA2	Y	-.215	8.833
42	MP BETA2	Y	-.215	2.167
43	MP BETA2	X	.124	8.833
44	MP BETA2	X	.124	2.167
45	MP GAMMA2	Y	-.093	8.833
46	MP GAMMA2	Y	-.093	2.167
47	MP GAMMA2	X	.053	8.833
48	MP GAMMA2	X	.053	2.167
49	MP ALPHA2	Y	-.059	5.5
50	MP ALPHA2	X	.034	5.5
51	MP BETA2	Y	-.059	5.5
52	MP BETA2	X	.034	5.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
53	MP GAMMA2	Y	-.05	5.5
54	MP GAMMA2	X	.029	5.5
55	MP ALPHA2	Y	-.05	5.5
56	MP ALPHA2	X	.029	5.5
57	MP BETA2	Y	-.05	5.5
58	MP BETA2	X	.029	5.5
59	MP GAMMA2	Y	-.026	5.5
60	MP GAMMA2	X	.015	5.5
61	MP ALPHA1	Y	-.019	1.5
62	MP ALPHA1	X	.011	1.5
63	MP BETA1	Y	-.019	1.5
64	MP BETA1	X	.011	1.5
65	MP GAMMA1	Y	-.008	1.5
66	MP GAMMA1	X	.004	1.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	Y	-.007	4.667
2	MP ALPHA3	Y	-.007	1.333
3	MP BETA3	Y	-.005	4.667
4	MP BETA3	Y	-.005	1.333
5	MP GAMMA3	Y	-.005	4.667
6	MP GAMMA3	Y	-.005	1.333
7	MP ALPHA4	Y	-.006	3.833
8	MP ALPHA4	Y	-.006	2.167
9	MP BETA4	Y	-.003	3.833
10	MP BETA4	Y	-.003	2.167
11	MP GAMMA4	Y	-.003	3.833
12	MP GAMMA4	Y	-.003	2.167
13	MP ALPHA1	Y	-.006	4.667
14	MP ALPHA1	Y	-.006	1.333
15	MP BETA1	Y	-.005	4.667
16	MP BETA1	Y	-.005	1.333
17	MP GAMMA1	Y	-.005	4.667
18	MP GAMMA1	Y	-.005	1.333
19	MP ALPHA2	Y	-.017	8.833
20	MP ALPHA2	Y	-.017	2.167
21	MP BETA2	Y	-.009	8.833
22	MP BETA2	Y	-.009	2.167
23	MP GAMMA2	Y	-.009	8.833
24	MP GAMMA2	Y	-.009	2.167
25	MP ALPHA2	Y	-.004	5.5
26	MP BETA2	Y	-.004	5.5
27	MP GAMMA2	Y	-.004	5.5
28	MP ALPHA2	Y	-.004	5.5
29	MP BETA2	Y	-.002	5.5
30	MP GAMMA2	Y	-.002	5.5
31	MP ALPHA1	Y	-.002	1.5
32	MP BETA1	Y	-.000762	1.5
33	MP GAMMA1	Y	-.000762	1.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	MP ALPHA3	Y	-0.005	4.667
2	MP ALPHA3	Y	-0.005	1.333
3	MP ALPHA3	X	-0.003	4.667
4	MP ALPHA3	X	-0.003	1.333
5	MP BETA3	Y	-0.004	4.667
6	MP BETA3	Y	-0.004	1.333
7	MP BETA3	X	-0.002	4.667
8	MP BETA3	X	-0.002	1.333
9	MP GAMMA3	Y	-0.005	4.667
10	MP GAMMA3	Y	-0.005	1.333
11	MP GAMMA3	X	-0.003	4.667
12	MP GAMMA3	X	-0.003	1.333
13	MP ALPHA4	Y	-0.004	3.833
14	MP ALPHA4	Y	-0.004	2.167
15	MP ALPHA4	X	-0.003	3.833
16	MP ALPHA4	X	-0.003	2.167
17	MP BETA4	Y	-0.002	3.833
18	MP BETA4	Y	-0.002	2.167
19	MP BETA4	X	-0.001	3.833
20	MP BETA4	X	-0.001	2.167
21	MP GAMMA4	Y	-0.004	3.833
22	MP GAMMA4	Y	-0.004	2.167
23	MP GAMMA4	X	-0.003	3.833
24	MP GAMMA4	X	-0.003	2.167
25	MP ALPHA1	Y	-0.005	4.667
26	MP ALPHA1	Y	-0.005	1.333
27	MP ALPHA1	X	-0.003	4.667
28	MP ALPHA1	X	-0.003	1.333
29	MP BETA1	Y	-0.004	4.667
30	MP BETA1	Y	-0.004	1.333
31	MP BETA1	X	-0.002	4.667
32	MP BETA1	X	-0.002	1.333
33	MP GAMMA1	Y	-0.005	4.667
34	MP GAMMA1	Y	-0.005	1.333
35	MP GAMMA1	X	-0.003	4.667
36	MP GAMMA1	X	-0.003	1.333
37	MP ALPHA2	Y	-0.012	8.833
38	MP ALPHA2	Y	-0.012	2.167
39	MP ALPHA2	X	-0.007	8.833
40	MP ALPHA2	X	-0.007	2.167
41	MP BETA2	Y	-0.005	8.833
42	MP BETA2	Y	-0.005	2.167
43	MP BETA2	X	-0.003	8.833
44	MP BETA2	X	-0.003	2.167
45	MP GAMMA2	Y	-0.012	8.833
46	MP GAMMA2	Y	-0.012	2.167
47	MP GAMMA2	X	-0.007	8.833
48	MP GAMMA2	X	-0.007	2.167
49	MP ALPHA2	Y	-0.003	5.5
50	MP ALPHA2	X	-0.002	5.5
51	MP BETA2	Y	-0.003	5.5
52	MP BETA2	X	-0.002	5.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
53	MP GAMMA2	Y	-.003	5.5
54	MP GAMMA2	X	-.002	5.5
55	MP ALPHA2	Y	-.003	5.5
56	MP ALPHA2	X	-.002	5.5
57	MP BETA2	Y	-.001	5.5
58	MP BETA2	X	-.000855	5.5
59	MP GAMMA2	Y	-.003	5.5
60	MP GAMMA2	X	-.002	5.5
61	MP ALPHA1	Y	-.001	1.5
62	MP ALPHA1	X	-.000633	1.5
63	MP BETA1	Y	-.000441	1.5
64	MP BETA1	X	-.000255	1.5
65	MP GAMMA1	Y	-.001	1.5
66	MP GAMMA1	X	-.000633	1.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	Y	-.003	4.667
2	MP ALPHA3	Y	-.003	1.333
3	MP ALPHA3	X	-.005	4.667
4	MP ALPHA3	X	-.005	1.333
5	MP BETA3	Y	-.003	4.667
6	MP BETA3	Y	-.003	1.333
7	MP BETA3	X	-.005	4.667
8	MP BETA3	X	-.005	1.333
9	MP GAMMA3	Y	-.003	4.667
10	MP GAMMA3	Y	-.003	1.333
11	MP GAMMA3	X	-.006	4.667
12	MP GAMMA3	X	-.006	1.333
13	MP ALPHA4	Y	-.002	3.833
14	MP ALPHA4	Y	-.002	2.167
15	MP ALPHA4	X	-.003	3.833
16	MP ALPHA4	X	-.003	2.167
17	MP BETA4	Y	-.002	3.833
18	MP BETA4	Y	-.002	2.167
19	MP BETA4	X	-.003	3.833
20	MP BETA4	X	-.003	2.167
21	MP GAMMA4	Y	-.003	3.833
22	MP GAMMA4	Y	-.003	2.167
23	MP GAMMA4	X	-.005	3.833
24	MP GAMMA4	X	-.005	2.167
25	MP ALPHA1	Y	-.002	4.667
26	MP ALPHA1	Y	-.002	1.333
27	MP ALPHA1	X	-.004	4.667
28	MP ALPHA1	X	-.004	1.333
29	MP BETA1	Y	-.002	4.667
30	MP BETA1	Y	-.002	1.333
31	MP BETA1	X	-.004	4.667
32	MP BETA1	X	-.004	1.333
33	MP GAMMA1	Y	-.003	4.667
34	MP GAMMA1	Y	-.003	1.333

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
35	MP GAMMA1	X	-.005	4.667
36	MP GAMMA1	X	-.005	1.333
37	MP ALPHA2	Y	-.004	8.833
38	MP ALPHA2	Y	-.004	2.167
39	MP ALPHA2	X	-.008	8.833
40	MP ALPHA2	X	-.008	2.167
41	MP BETA2	Y	-.004	8.833
42	MP BETA2	Y	-.004	2.167
43	MP BETA2	X	-.008	8.833
44	MP BETA2	X	-.008	2.167
45	MP GAMMA2	Y	-.008	8.833
46	MP GAMMA2	Y	-.008	2.167
47	MP GAMMA2	X	-.015	8.833
48	MP GAMMA2	X	-.015	2.167
49	MP ALPHA2	Y	-.002	5.5
50	MP ALPHA2	X	-.003	5.5
51	MP BETA2	Y	-.002	5.5
52	MP BETA2	X	-.003	5.5
53	MP GAMMA2	Y	-.002	5.5
54	MP GAMMA2	X	-.004	5.5
55	MP ALPHA2	Y	-.001	5.5
56	MP ALPHA2	X	-.002	5.5
57	MP BETA2	Y	-.001	5.5
58	MP BETA2	X	-.002	5.5
59	MP GAMMA2	Y	-.002	5.5
60	MP GAMMA2	X	-.003	5.5
61	MP ALPHA1	Y	-.000381	1.5
62	MP ALPHA1	X	-.00066	1.5
63	MP BETA1	Y	-.000381	1.5
64	MP BETA1	X	-.00066	1.5
65	MP GAMMA1	Y	-.00076	1.5
66	MP GAMMA1	X	-.001	1.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	MP ALPHA3	X	-.005	4.667
2	MP ALPHA3	X	-.005	1.333
3	MP BETA3	X	-.006	4.667
4	MP BETA3	X	-.006	1.333
5	MP GAMMA3	X	-.006	4.667
6	MP GAMMA3	X	-.006	1.333
7	MP ALPHA4	X	-.003	3.833
8	MP ALPHA4	X	-.003	2.167
9	MP BETA4	X	-.005	3.833
10	MP BETA4	X	-.005	2.167
11	MP GAMMA4	X	-.005	3.833
12	MP GAMMA4	X	-.005	2.167
13	MP ALPHA1	X	-.004	4.667
14	MP ALPHA1	X	-.004	1.333
15	MP BETA1	X	-.006	4.667
16	MP BETA1	X	-.006	1.333

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
17	MP GAMMA1	X	-.006	4.667
18	MP GAMMA1	X	-.006	1.333
19	MP ALPHA2	X	-.006	8.833
20	MP ALPHA2	X	-.006	2.167
21	MP BETA2	X	-.014	8.833
22	MP BETA2	X	-.014	2.167
23	MP GAMMA2	X	-.014	8.833
24	MP GAMMA2	X	-.014	2.167
25	MP ALPHA2	X	-.003	5.5
26	MP BETA2	X	-.004	5.5
27	MP GAMMA2	X	-.004	5.5
28	MP ALPHA2	X	-.002	5.5
29	MP BETA2	X	-.003	5.5
30	MP GAMMA2	X	-.003	5.5
31	MP ALPHA1	X	-.000509	1.5
32	MP BETA1	X	-.001	1.5
33	MP GAMMA1	X	-.001	1.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	MP ALPHA3	Y	.003	4.667
2	MP ALPHA3	Y	.003	1.333
3	MP ALPHA3	X	-.005	4.667
4	MP ALPHA3	X	-.005	1.333
5	MP BETA3	Y	.003	4.667
6	MP BETA3	Y	.003	1.333
7	MP BETA3	X	-.006	4.667
8	MP BETA3	X	-.006	1.333
9	MP GAMMA3	Y	.003	4.667
10	MP GAMMA3	Y	.003	1.333
11	MP GAMMA3	X	-.005	4.667
12	MP GAMMA3	X	-.005	1.333
13	MP ALPHA4	Y	.002	3.833
14	MP ALPHA4	Y	.002	2.167
15	MP ALPHA4	X	-.003	3.833
16	MP ALPHA4	X	-.003	2.167
17	MP BETA4	Y	.003	3.833
18	MP BETA4	Y	.003	2.167
19	MP BETA4	X	-.005	3.833
20	MP BETA4	X	-.005	2.167
21	MP GAMMA4	Y	.002	3.833
22	MP GAMMA4	Y	.002	2.167
23	MP GAMMA4	X	-.003	3.833
24	MP GAMMA4	X	-.003	2.167
25	MP ALPHA1	Y	.002	4.667
26	MP ALPHA1	Y	.002	1.333
27	MP ALPHA1	X	-.004	4.667
28	MP ALPHA1	X	-.004	1.333
29	MP BETA1	Y	.003	4.667
30	MP BETA1	Y	.003	1.333
31	MP BETA1	X	-.005	4.667

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
32	MP BETA1	X	-.005	1.333
33	MP GAMMA1	Y	.002	4.667
34	MP GAMMA1	Y	.002	1.333
35	MP GAMMA1	X	-.004	4.667
36	MP GAMMA1	X	-.004	1.333
37	MP ALPHA2	Y	.004	8.833
38	MP ALPHA2	Y	.004	2.167
39	MP ALPHA2	X	-.008	8.833
40	MP ALPHA2	X	-.008	2.167
41	MP BETA2	Y	.008	8.833
42	MP BETA2	Y	.008	2.167
43	MP BETA2	X	-.015	8.833
44	MP BETA2	X	-.015	2.167
45	MP GAMMA2	Y	.004	8.833
46	MP GAMMA2	Y	.004	2.167
47	MP GAMMA2	X	-.008	8.833
48	MP GAMMA2	X	-.008	2.167
49	MP ALPHA2	Y	.002	5.5
50	MP ALPHA2	X	-.003	5.5
51	MP BETA2	Y	.002	5.5
52	MP BETA2	X	-.004	5.5
53	MP GAMMA2	Y	.002	5.5
54	MP GAMMA2	X	-.003	5.5
55	MP ALPHA2	Y	.001	5.5
56	MP ALPHA2	X	-.002	5.5
57	MP BETA2	Y	.002	5.5
58	MP BETA2	X	-.003	5.5
59	MP GAMMA2	Y	.001	5.5
60	MP GAMMA2	X	-.002	5.5
61	MP ALPHA1	Y	.000381	1.5
62	MP ALPHA1	X	-.00066	1.5
63	MP BETA1	Y	.00076	1.5
64	MP BETA1	X	-.001	1.5
65	MP GAMMA1	Y	.000381	1.5
66	MP GAMMA1	X	-.00066	1.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	MP ALPHA3	Y	.005	4.667
2	MP ALPHA3	Y	.005	1.333
3	MP ALPHA3	X	-.003	4.667
4	MP ALPHA3	X	-.003	1.333
5	MP BETA3	Y	.005	4.667
6	MP BETA3	Y	.005	1.333
7	MP BETA3	X	-.003	4.667
8	MP BETA3	X	-.003	1.333
9	MP GAMMA3	Y	.004	4.667
10	MP GAMMA3	Y	.004	1.333
11	MP GAMMA3	X	-.002	4.667
12	MP GAMMA3	X	-.002	1.333
13	MP ALPHA4	Y	.004	3.833



Company : POD
 Designer : LT
 Job Number : 20-65646
 Model Name : 806369

June 19, 2020
 11:09 AM
 Checked By: _____

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
14	MP ALPHA4	Y	.004	2.167
15	MP ALPHA4	X	-.003	3.833
16	MP ALPHA4	X	-.003	2.167
17	MP BETA4	Y	.004	3.833
18	MP BETA4	Y	.004	2.167
19	MP BETA4	X	-.003	3.833
20	MP BETA4	X	-.003	2.167
21	MP GAMMA4	Y	.002	3.833
22	MP GAMMA4	Y	.002	2.167
23	MP GAMMA4	X	-.001	3.833
24	MP GAMMA4	X	-.001	2.167
25	MP ALPHA1	Y	.005	4.667
26	MP ALPHA1	Y	.005	1.333
27	MP ALPHA1	X	-.003	4.667
28	MP ALPHA1	X	-.003	1.333
29	MP BETA1	Y	.005	4.667
30	MP BETA1	Y	.005	1.333
31	MP BETA1	X	-.003	4.667
32	MP BETA1	X	-.003	1.333
33	MP GAMMA1	Y	.004	4.667
34	MP GAMMA1	Y	.004	1.333
35	MP GAMMA1	X	-.002	4.667
36	MP GAMMA1	X	-.002	1.333
37	MP ALPHA2	Y	.012	8.833
38	MP ALPHA2	Y	.012	2.167
39	MP ALPHA2	X	-.007	8.833
40	MP ALPHA2	X	-.007	2.167
41	MP BETA2	Y	.012	8.833
42	MP BETA2	Y	.012	2.167
43	MP BETA2	X	-.007	8.833
44	MP BETA2	X	-.007	2.167
45	MP GAMMA2	Y	.005	8.833
46	MP GAMMA2	Y	.005	2.167
47	MP GAMMA2	X	-.003	8.833
48	MP GAMMA2	X	-.003	2.167
49	MP ALPHA2	Y	.003	5.5
50	MP ALPHA2	X	-.002	5.5
51	MP BETA2	Y	.003	5.5
52	MP BETA2	X	-.002	5.5
53	MP GAMMA2	Y	.003	5.5
54	MP GAMMA2	X	-.002	5.5
55	MP ALPHA2	Y	.003	5.5
56	MP ALPHA2	X	-.002	5.5
57	MP BETA2	Y	.003	5.5
58	MP BETA2	X	-.002	5.5
59	MP GAMMA2	Y	.001	5.5
60	MP GAMMA2	X	-.000855	5.5
61	MP ALPHA1	Y	.001	1.5
62	MP ALPHA1	X	-.000633	1.5
63	MP BETA1	Y	.001	1.5
64	MP BETA1	X	-.000633	1.5
65	MP GAMMA1	Y	.000441	1.5



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
66	MP GAMMA1	X	-.000255	1.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	Y	.007	4.667
2	MP ALPHA3	Y	.007	1.333
3	MP BETA3	Y	.005	4.667
4	MP BETA3	Y	.005	1.333
5	MP GAMMA3	Y	.005	4.667
6	MP GAMMA3	Y	.005	1.333
7	MP ALPHA4	Y	.006	3.833
8	MP ALPHA4	Y	.006	2.167
9	MP BETA4	Y	.003	3.833
10	MP BETA4	Y	.003	2.167
11	MP GAMMA4	Y	.003	3.833
12	MP GAMMA4	Y	.003	2.167
13	MP ALPHA1	Y	.006	4.667
14	MP ALPHA1	Y	.006	1.333
15	MP BETA1	Y	.005	4.667
16	MP BETA1	Y	.005	1.333
17	MP GAMMA1	Y	.005	4.667
18	MP GAMMA1	Y	.005	1.333
19	MP ALPHA2	Y	.017	8.833
20	MP ALPHA2	Y	.017	2.167
21	MP BETA2	Y	.009	8.833
22	MP BETA2	Y	.009	2.167
23	MP GAMMA2	Y	.009	8.833
24	MP GAMMA2	Y	.009	2.167
25	MP ALPHA2	Y	.004	5.5
26	MP BETA2	Y	.004	5.5
27	MP GAMMA2	Y	.004	5.5
28	MP ALPHA2	Y	.004	5.5
29	MP BETA2	Y	.002	5.5
30	MP GAMMA2	Y	.002	5.5
31	MP ALPHA1	Y	.002	1.5
32	MP BETA1	Y	.000762	1.5
33	MP GAMMA1	Y	.000762	1.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	Y	.005	4.667
2	MP ALPHA3	Y	.005	1.333
3	MP ALPHA3	X	.003	4.667
4	MP ALPHA3	X	.003	1.333
5	MP BETA3	Y	.004	4.667
6	MP BETA3	Y	.004	1.333
7	MP BETA3	X	.002	4.667
8	MP BETA3	X	.002	1.333
9	MP GAMMA3	Y	.005	4.667
10	MP GAMMA3	Y	.005	1.333
11	MP GAMMA3	X	.003	4.667

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
12	MP GAMMA3	X	.003	1.333
13	MP ALPHA4	Y	.004	3.833
14	MP ALPHA4	Y	.004	2.167
15	MP ALPHA4	X	.003	3.833
16	MP ALPHA4	X	.003	2.167
17	MP BETA4	Y	.002	3.833
18	MP BETA4	Y	.002	2.167
19	MP BETA4	X	.001	3.833
20	MP BETA4	X	.001	2.167
21	MP GAMMA4	Y	.004	3.833
22	MP GAMMA4	Y	.004	2.167
23	MP GAMMA4	X	.003	3.833
24	MP GAMMA4	X	.003	2.167
25	MP ALPHA1	Y	.005	4.667
26	MP ALPHA1	Y	.005	1.333
27	MP ALPHA1	X	.003	4.667
28	MP ALPHA1	X	.003	1.333
29	MP BETA1	Y	.004	4.667
30	MP BETA1	Y	.004	1.333
31	MP BETA1	X	.002	4.667
32	MP BETA1	X	.002	1.333
33	MP GAMMA1	Y	.005	4.667
34	MP GAMMA1	Y	.005	1.333
35	MP GAMMA1	X	.003	4.667
36	MP GAMMA1	X	.003	1.333
37	MP ALPHA2	Y	.012	8.833
38	MP ALPHA2	Y	.012	2.167
39	MP ALPHA2	X	.007	8.833
40	MP ALPHA2	X	.007	2.167
41	MP BETA2	Y	.005	8.833
42	MP BETA2	Y	.005	2.167
43	MP BETA2	X	.003	8.833
44	MP BETA2	X	.003	2.167
45	MP GAMMA2	Y	.012	8.833
46	MP GAMMA2	Y	.012	2.167
47	MP GAMMA2	X	.007	8.833
48	MP GAMMA2	X	.007	2.167
49	MP ALPHA2	Y	.003	5.5
50	MP ALPHA2	X	.002	5.5
51	MP BETA2	Y	.003	5.5
52	MP BETA2	X	.002	5.5
53	MP GAMMA2	Y	.003	5.5
54	MP GAMMA2	X	.002	5.5
55	MP ALPHA2	Y	.003	5.5
56	MP ALPHA2	X	.002	5.5
57	MP BETA2	Y	.001	5.5
58	MP BETA2	X	.000855	5.5
59	MP GAMMA2	Y	.003	5.5
60	MP GAMMA2	X	.002	5.5
61	MP ALPHA1	Y	.001	1.5
62	MP ALPHA1	X	.000633	1.5
63	MP BETA1	Y	.000441	1.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
64	MP BETA1	X	.000255	1.5
65	MP GAMMA1	Y	.001	1.5
66	MP GAMMA1	X	.000633	1.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	Y	.003	4.667
2	MP ALPHA3	Y	.003	1.333
3	MP ALPHA3	X	.005	4.667
4	MP ALPHA3	X	.005	1.333
5	MP BETA3	Y	.003	4.667
6	MP BETA3	Y	.003	1.333
7	MP BETA3	X	.005	4.667
8	MP BETA3	X	.005	1.333
9	MP GAMMA3	Y	.003	4.667
10	MP GAMMA3	Y	.003	1.333
11	MP GAMMA3	X	.006	4.667
12	MP GAMMA3	X	.006	1.333
13	MP ALPHA4	Y	.002	3.833
14	MP ALPHA4	Y	.002	2.167
15	MP ALPHA4	X	.003	3.833
16	MP ALPHA4	X	.003	2.167
17	MP BETA4	Y	.002	3.833
18	MP BETA4	Y	.002	2.167
19	MP BETA4	X	.003	3.833
20	MP BETA4	X	.003	2.167
21	MP GAMMA4	Y	.003	3.833
22	MP GAMMA4	Y	.003	2.167
23	MP GAMMA4	X	.005	3.833
24	MP GAMMA4	X	.005	2.167
25	MP ALPHA1	Y	.002	4.667
26	MP ALPHA1	Y	.002	1.333
27	MP ALPHA1	X	.004	4.667
28	MP ALPHA1	X	.004	1.333
29	MP BETA1	Y	.002	4.667
30	MP BETA1	Y	.002	1.333
31	MP BETA1	X	.004	4.667
32	MP BETA1	X	.004	1.333
33	MP GAMMA1	Y	.003	4.667
34	MP GAMMA1	Y	.003	1.333
35	MP GAMMA1	X	.005	4.667
36	MP GAMMA1	X	.005	1.333
37	MP ALPHA2	Y	.004	8.833
38	MP ALPHA2	Y	.004	2.167
39	MP ALPHA2	X	.008	8.833
40	MP ALPHA2	X	.008	2.167
41	MP BETA2	Y	.004	8.833
42	MP BETA2	Y	.004	2.167
43	MP BETA2	X	.008	8.833
44	MP BETA2	X	.008	2.167
45	MP GAMMA2	Y	.008	8.833

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
46	MP GAMMA2	Y	.008	2.167
47	MP GAMMA2	X	.015	8.833
48	MP GAMMA2	X	.015	2.167
49	MP ALPHA2	Y	.002	5.5
50	MP ALPHA2	X	.003	5.5
51	MP BETA2	Y	.002	5.5
52	MP BETA2	X	.003	5.5
53	MP GAMMA2	Y	.002	5.5
54	MP GAMMA2	X	.004	5.5
55	MP ALPHA2	Y	.001	5.5
56	MP ALPHA2	X	.002	5.5
57	MP BETA2	Y	.001	5.5
58	MP BETA2	X	.002	5.5
59	MP GAMMA2	Y	.002	5.5
60	MP GAMMA2	X	.003	5.5
61	MP ALPHA1	Y	.000381	1.5
62	MP ALPHA1	X	.00066	1.5
63	MP BETA1	Y	.000381	1.5
64	MP BETA1	X	.00066	1.5
65	MP GAMMA1	Y	.00076	1.5
66	MP GAMMA1	X	.001	1.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	MP ALPHA3	X	.005	4.667
2	MP ALPHA3	X	.005	1.333
3	MP BETA3	X	.006	4.667
4	MP BETA3	X	.006	1.333
5	MP GAMMA3	X	.006	4.667
6	MP GAMMA3	X	.006	1.333
7	MP ALPHA4	X	.003	3.833
8	MP ALPHA4	X	.003	2.167
9	MP BETA4	X	.005	3.833
10	MP BETA4	X	.005	2.167
11	MP GAMMA4	X	.005	3.833
12	MP GAMMA4	X	.005	2.167
13	MP ALPHA1	X	.004	4.667
14	MP ALPHA1	X	.004	1.333
15	MP BETA1	X	.006	4.667
16	MP BETA1	X	.006	1.333
17	MP GAMMA1	X	.006	4.667
18	MP GAMMA1	X	.006	1.333
19	MP ALPHA2	X	.006	8.833
20	MP ALPHA2	X	.006	2.167
21	MP BETA2	X	.014	8.833
22	MP BETA2	X	.014	2.167
23	MP GAMMA2	X	.014	8.833
24	MP GAMMA2	X	.014	2.167
25	MP ALPHA2	X	.003	5.5
26	MP BETA2	X	.004	5.5
27	MP GAMMA2	X	.004	5.5



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
28	MP ALPHA2	X	.002	5.5
29	MP BETA2	X	.003	5.5
30	MP GAMMA2	X	.003	5.5
31	MP ALPHA1	X	.000509	1.5
32	MP BETA1	X	.001	1.5
33	MP GAMMA1	X	.001	1.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	Y	-.003	4.667
2	MP ALPHA3	Y	-.003	1.333
3	MP ALPHA3	X	.005	4.667
4	MP ALPHA3	X	.005	1.333
5	MP BETA3	Y	-.003	4.667
6	MP BETA3	Y	-.003	1.333
7	MP BETA3	X	.006	4.667
8	MP BETA3	X	.006	1.333
9	MP GAMMA3	Y	-.003	4.667
10	MP GAMMA3	Y	-.003	1.333
11	MP GAMMA3	X	.005	4.667
12	MP GAMMA3	X	.005	1.333
13	MP ALPHA4	Y	-.002	3.833
14	MP ALPHA4	Y	-.002	2.167
15	MP ALPHA4	X	.003	3.833
16	MP ALPHA4	X	.003	2.167
17	MP BETA4	Y	-.003	3.833
18	MP BETA4	Y	-.003	2.167
19	MP BETA4	X	.005	3.833
20	MP BETA4	X	.005	2.167
21	MP GAMMA4	Y	-.002	3.833
22	MP GAMMA4	Y	-.002	2.167
23	MP GAMMA4	X	.003	3.833
24	MP GAMMA4	X	.003	2.167
25	MP ALPHA1	Y	-.002	4.667
26	MP ALPHA1	Y	-.002	1.333
27	MP ALPHA1	X	.004	4.667
28	MP ALPHA1	X	.004	1.333
29	MP BETA1	Y	-.003	4.667
30	MP BETA1	Y	-.003	1.333
31	MP BETA1	X	.005	4.667
32	MP BETA1	X	.005	1.333
33	MP GAMMA1	Y	-.002	4.667
34	MP GAMMA1	Y	-.002	1.333
35	MP GAMMA1	X	.004	4.667
36	MP GAMMA1	X	.004	1.333
37	MP ALPHA2	Y	-.004	8.833
38	MP ALPHA2	Y	-.004	2.167
39	MP ALPHA2	X	.008	8.833
40	MP ALPHA2	X	.008	2.167
41	MP BETA2	Y	-.008	8.833
42	MP BETA2	Y	-.008	2.167

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
43	MP BETA2	X	.015	8.833
44	MP BETA2	X	.015	2.167
45	MP GAMMA2	Y	-.004	8.833
46	MP GAMMA2	Y	-.004	2.167
47	MP GAMMA2	X	.008	8.833
48	MP GAMMA2	X	.008	2.167
49	MP ALPHA2	Y	-.002	5.5
50	MP ALPHA2	X	.003	5.5
51	MP BETA2	Y	-.002	5.5
52	MP BETA2	X	.004	5.5
53	MP GAMMA2	Y	-.002	5.5
54	MP GAMMA2	X	.003	5.5
55	MP ALPHA2	Y	-.001	5.5
56	MP ALPHA2	X	.002	5.5
57	MP BETA2	Y	-.002	5.5
58	MP BETA2	X	.003	5.5
59	MP GAMMA2	Y	-.001	5.5
60	MP GAMMA2	X	.002	5.5
61	MP ALPHA1	Y	-.000381	1.5
62	MP ALPHA1	X	.00066	1.5
63	MP BETA1	Y	-.00076	1.5
64	MP BETA1	X	.001	1.5
65	MP GAMMA1	Y	-.000381	1.5
66	MP GAMMA1	X	.00066	1.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	MP ALPHA3	Y	-.005	4.667
2	MP ALPHA3	Y	-.005	1.333
3	MP ALPHA3	X	.003	4.667
4	MP ALPHA3	X	.003	1.333
5	MP BETA3	Y	-.005	4.667
6	MP BETA3	Y	-.005	1.333
7	MP BETA3	X	.003	4.667
8	MP BETA3	X	.003	1.333
9	MP GAMMA3	Y	-.004	4.667
10	MP GAMMA3	Y	-.004	1.333
11	MP GAMMA3	X	.002	4.667
12	MP GAMMA3	X	.002	1.333
13	MP ALPHA4	Y	-.004	3.833
14	MP ALPHA4	Y	-.004	2.167
15	MP ALPHA4	X	.003	3.833
16	MP ALPHA4	X	.003	2.167
17	MP BETA4	Y	-.004	3.833
18	MP BETA4	Y	-.004	2.167
19	MP BETA4	X	.003	3.833
20	MP BETA4	X	.003	2.167
21	MP GAMMA4	Y	-.002	3.833
22	MP GAMMA4	Y	-.002	2.167
23	MP GAMMA4	X	.001	3.833
24	MP GAMMA4	X	.001	2.167

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
25	MP ALPHA1	Y	-.005	4.667
26	MP ALPHA1	Y	-.005	1.333
27	MP ALPHA1	X	.003	4.667
28	MP ALPHA1	X	.003	1.333
29	MP BETA1	Y	-.005	4.667
30	MP BETA1	Y	-.005	1.333
31	MP BETA1	X	.003	4.667
32	MP BETA1	X	.003	1.333
33	MP GAMMA1	Y	-.004	4.667
34	MP GAMMA1	Y	-.004	1.333
35	MP GAMMA1	X	.002	4.667
36	MP GAMMA1	X	.002	1.333
37	MP ALPHA2	Y	-.012	8.833
38	MP ALPHA2	Y	-.012	2.167
39	MP ALPHA2	X	.007	8.833
40	MP ALPHA2	X	.007	2.167
41	MP BETA2	Y	-.012	8.833
42	MP BETA2	Y	-.012	2.167
43	MP BETA2	X	.007	8.833
44	MP BETA2	X	.007	2.167
45	MP GAMMA2	Y	-.005	8.833
46	MP GAMMA2	Y	-.005	2.167
47	MP GAMMA2	X	.003	8.833
48	MP GAMMA2	X	.003	2.167
49	MP ALPHA2	Y	-.003	5.5
50	MP ALPHA2	X	.002	5.5
51	MP BETA2	Y	-.003	5.5
52	MP BETA2	X	.002	5.5
53	MP GAMMA2	Y	-.003	5.5
54	MP GAMMA2	X	.002	5.5
55	MP ALPHA2	Y	-.003	5.5
56	MP ALPHA2	X	.002	5.5
57	MP BETA2	Y	-.003	5.5
58	MP BETA2	X	.002	5.5
59	MP GAMMA2	Y	-.001	5.5
60	MP GAMMA2	X	.000855	5.5
61	MP ALPHA1	Y	-.001	1.5
62	MP ALPHA1	X	.000633	1.5
63	MP BETA1	Y	-.001	1.5
64	MP BETA1	X	.000633	1.5
65	MP GAMMA1	Y	-.000441	1.5
66	MP GAMMA1	X	.000255	1.5

Member Point Loads (BLC 27 : Ice Dead Load)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	MP ALPHA3	Z	-.09	4.667
2	MP ALPHA3	Z	-.09	1.333
3	MP BETA3	Z	-.09	4.667
4	MP BETA3	Z	-.09	1.333
5	MP GAMMA3	Z	-.09	4.667
6	MP GAMMA3	Z	-.09	1.333

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
7	MP ALPHA4	Z	-.076	3.833
8	MP ALPHA4	Z	-.076	2.167
9	MP BETA4	Z	-.076	3.833
10	MP BETA4	Z	-.076	2.167
11	MP GAMMA4	Z	-.076	3.833
12	MP GAMMA4	Z	-.076	2.167
13	MP ALPHA1	Z	-.083	4.667
14	MP ALPHA1	Z	-.083	1.333
15	MP BETA1	Z	-.083	4.667
16	MP BETA1	Z	-.083	1.333
17	MP GAMMA1	Z	-.083	4.667
18	MP GAMMA1	Z	-.083	1.333
19	MP ALPHA2	Z	-.211	8.833
20	MP ALPHA2	Z	-.211	2.167
21	MP BETA2	Z	-.211	8.833
22	MP BETA2	Z	-.211	2.167
23	MP GAMMA2	Z	-.211	8.833
24	MP GAMMA2	Z	-.211	2.167
25	MP ALPHA2	Z	-.08	5.5
26	MP BETA2	Z	-.08	5.5
27	MP GAMMA2	Z	-.08	5.5
28	MP ALPHA2	Z	-.059	5.5
29	MP BETA2	Z	-.059	5.5
30	MP GAMMA2	Z	-.059	5.5
31	MP ALPHA1	Z	-.025	1.5
32	MP BETA1	Z	-.025	1.5
33	MP GAMMA1	Z	-.025	1.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	MP ALPHA3	Y	-.014	4.667
2	MP ALPHA3	Y	-.014	1.333
3	MP BETA3	Y	-.012	4.667
4	MP BETA3	Y	-.012	1.333
5	MP GAMMA3	Y	-.012	4.667
6	MP GAMMA3	Y	-.012	1.333
7	MP ALPHA4	Y	-.012	3.833
8	MP ALPHA4	Y	-.012	2.167
9	MP BETA4	Y	-.008	3.833
10	MP BETA4	Y	-.008	2.167
11	MP GAMMA4	Y	-.008	3.833
12	MP GAMMA4	Y	-.008	2.167
13	MP ALPHA1	Y	-.014	4.667
14	MP ALPHA1	Y	-.014	1.333
15	MP BETA1	Y	-.011	4.667
16	MP BETA1	Y	-.011	1.333
17	MP GAMMA1	Y	-.011	4.667
18	MP GAMMA1	Y	-.011	1.333
19	MP ALPHA2	Y	-.05	8.833
20	MP ALPHA2	Y	-.05	2.167
21	MP BETA2	Y	-.029	8.833

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

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
22	MP BETA2	Y	-.029	2.167
23	MP GAMMA2	Y	-.029	8.833
24	MP GAMMA2	Y	-.029	2.167
25	MP ALPHA2	Y	-.01	5.5
26	MP BETA2	Y	-.009	5.5
27	MP GAMMA2	Y	-.009	5.5
28	MP ALPHA2	Y	-.009	5.5
29	MP BETA2	Y	-.006	5.5
30	MP GAMMA2	Y	-.006	5.5
31	MP ALPHA1	Y	-.005	1.5
32	MP BETA1	Y	-.003	1.5
33	MP GAMMA1	Y	-.003	1.5

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

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
1	MP ALPHA3	Y	-.012	4.667
2	MP ALPHA3	Y	-.012	1.333
3	MP ALPHA3	X	-.007	4.667
4	MP ALPHA3	X	-.007	1.333
5	MP BETA3	Y	-.01	4.667
6	MP BETA3	Y	-.01	1.333
7	MP BETA3	X	-.006	4.667
8	MP BETA3	X	-.006	1.333
9	MP GAMMA3	Y	-.012	4.667
10	MP GAMMA3	Y	-.012	1.333
11	MP GAMMA3	X	-.007	4.667
12	MP GAMMA3	X	-.007	1.333
13	MP ALPHA4	Y	-.009	3.833
14	MP ALPHA4	Y	-.009	2.167
15	MP ALPHA4	X	-.005	3.833
16	MP ALPHA4	X	-.005	2.167
17	MP BETA4	Y	-.005	3.833
18	MP BETA4	Y	-.005	2.167
19	MP BETA4	X	-.003	3.833
20	MP BETA4	X	-.003	2.167
21	MP GAMMA4	Y	-.009	3.833
22	MP GAMMA4	Y	-.009	2.167
23	MP GAMMA4	X	-.005	3.833
24	MP GAMMA4	X	-.005	2.167
25	MP ALPHA1	Y	-.011	4.667
26	MP ALPHA1	Y	-.011	1.333
27	MP ALPHA1	X	-.006	4.667
28	MP ALPHA1	X	-.006	1.333
29	MP BETA1	Y	-.009	4.667
30	MP BETA1	Y	-.009	1.333
31	MP BETA1	X	-.005	4.667
32	MP BETA1	X	-.005	1.333
33	MP GAMMA1	Y	-.011	4.667
34	MP GAMMA1	Y	-.011	1.333
35	MP GAMMA1	X	-.006	4.667
36	MP GAMMA1	X	-.006	1.333

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
37	MP ALPHA2	Y	-.037	8.833
38	MP ALPHA2	Y	-.037	2.167
39	MP ALPHA2	X	-.022	8.833
40	MP ALPHA2	X	-.022	2.167
41	MP BETA2	Y	-.019	8.833
42	MP BETA2	Y	-.019	2.167
43	MP BETA2	X	-.011	8.833
44	MP BETA2	X	-.011	2.167
45	MP GAMMA2	Y	-.037	8.833
46	MP GAMMA2	Y	-.037	2.167
47	MP GAMMA2	X	-.022	8.833
48	MP GAMMA2	X	-.022	2.167
49	MP ALPHA2	Y	-.008	5.5
50	MP ALPHA2	X	-.005	5.5
51	MP BETA2	Y	-.007	5.5
52	MP BETA2	X	-.004	5.5
53	MP GAMMA2	Y	-.008	5.5
54	MP GAMMA2	X	-.005	5.5
55	MP ALPHA2	Y	-.007	5.5
56	MP ALPHA2	X	-.004	5.5
57	MP BETA2	Y	-.005	5.5
58	MP BETA2	X	-.003	5.5
59	MP GAMMA2	Y	-.007	5.5
60	MP GAMMA2	X	-.004	5.5
61	MP ALPHA1	Y	-.004	1.5
62	MP ALPHA1	X	-.002	1.5
63	MP BETA1	Y	-.002	1.5
64	MP BETA1	X	-.001	1.5
65	MP GAMMA1	Y	-.004	1.5
66	MP GAMMA1	X	-.002	1.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	MP ALPHA3	Y	-.006	4.667
2	MP ALPHA3	Y	-.006	1.333
3	MP ALPHA3	X	-.01	4.667
4	MP ALPHA3	X	-.01	1.333
5	MP BETA3	Y	-.006	4.667
6	MP BETA3	Y	-.006	1.333
7	MP BETA3	X	-.01	4.667
8	MP BETA3	X	-.01	1.333
9	MP GAMMA3	Y	-.007	4.667
10	MP GAMMA3	Y	-.007	1.333
11	MP GAMMA3	X	-.012	4.667
12	MP GAMMA3	X	-.012	1.333
13	MP ALPHA4	Y	-.004	3.833
14	MP ALPHA4	Y	-.004	2.167
15	MP ALPHA4	X	-.007	3.833
16	MP ALPHA4	X	-.007	2.167
17	MP BETA4	Y	-.004	3.833
18	MP BETA4	Y	-.004	2.167

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
19	MP BETA4	X	-.007	3.833
20	MP BETA4	X	-.007	2.167
21	MP GAMMA4	Y	-.006	3.833
22	MP GAMMA4	Y	-.006	2.167
23	MP GAMMA4	X	-.011	3.833
24	MP GAMMA4	X	-.011	2.167
25	MP ALPHA1	Y	-.006	4.667
26	MP ALPHA1	Y	-.006	1.333
27	MP ALPHA1	X	-.01	4.667
28	MP ALPHA1	X	-.01	1.333
29	MP BETA1	Y	-.006	4.667
30	MP BETA1	Y	-.006	1.333
31	MP BETA1	X	-.01	4.667
32	MP BETA1	X	-.01	1.333
33	MP GAMMA1	Y	-.007	4.667
34	MP GAMMA1	Y	-.007	1.333
35	MP GAMMA1	X	-.012	4.667
36	MP GAMMA1	X	-.012	1.333
37	MP ALPHA2	Y	-.015	8.833
38	MP ALPHA2	Y	-.015	2.167
39	MP ALPHA2	X	-.025	8.833
40	MP ALPHA2	X	-.025	2.167
41	MP BETA2	Y	-.015	8.833
42	MP BETA2	Y	-.015	2.167
43	MP BETA2	X	-.025	8.833
44	MP BETA2	X	-.025	2.167
45	MP GAMMA2	Y	-.025	8.833
46	MP GAMMA2	Y	-.025	2.167
47	MP GAMMA2	X	-.044	8.833
48	MP GAMMA2	X	-.044	2.167
49	MP ALPHA2	Y	-.004	5.5
50	MP ALPHA2	X	-.008	5.5
51	MP BETA2	Y	-.004	5.5
52	MP BETA2	X	-.008	5.5
53	MP GAMMA2	Y	-.005	5.5
54	MP GAMMA2	X	-.009	5.5
55	MP ALPHA2	Y	-.003	5.5
56	MP ALPHA2	X	-.005	5.5
57	MP BETA2	Y	-.003	5.5
58	MP BETA2	X	-.005	5.5
59	MP GAMMA2	Y	-.005	5.5
60	MP GAMMA2	X	-.008	5.5
61	MP ALPHA1	Y	-.001	1.5
62	MP ALPHA1	X	-.003	1.5
63	MP BETA1	Y	-.001	1.5
64	MP BETA1	X	-.003	1.5
65	MP GAMMA1	Y	-.002	1.5
66	MP GAMMA1	X	-.004	1.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
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Member Point Loads (BLC 31 : Ice Wind Load (90)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	MP ALPHA3	X	-.011	4.667
2	MP ALPHA3	X	-.011	1.333
3	MP BETA3	X	-.014	4.667
4	MP BETA3	X	-.014	1.333
5	MP GAMMA3	X	-.014	4.667
6	MP GAMMA3	X	-.014	1.333
7	MP ALPHA4	X	-.006	3.833
8	MP ALPHA4	X	-.006	2.167
9	MP BETA4	X	-.011	3.833
10	MP BETA4	X	-.011	2.167
11	MP GAMMA4	X	-.011	3.833
12	MP GAMMA4	X	-.011	2.167
13	MP ALPHA1	X	-.01	4.667
14	MP ALPHA1	X	-.01	1.333
15	MP BETA1	X	-.013	4.667
16	MP BETA1	X	-.013	1.333
17	MP GAMMA1	X	-.013	4.667
18	MP GAMMA1	X	-.013	1.333
19	MP ALPHA2	X	-.022	8.833
20	MP ALPHA2	X	-.022	2.167
21	MP BETA2	X	-.043	8.833
22	MP BETA2	X	-.043	2.167
23	MP GAMMA2	X	-.043	8.833
24	MP GAMMA2	X	-.043	2.167
25	MP ALPHA2	X	-.008	5.5
26	MP BETA2	X	-.01	5.5
27	MP GAMMA2	X	-.01	5.5
28	MP ALPHA2	X	-.005	5.5
29	MP BETA2	X	-.008	5.5
30	MP GAMMA2	X	-.008	5.5
31	MP ALPHA1	X	-.002	1.5
32	MP BETA1	X	-.004	1.5
33	MP GAMMA1	X	-.004	1.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	MP ALPHA3	Y	.006	4.667
2	MP ALPHA3	Y	.006	1.333
3	MP ALPHA3	X	-.01	4.667
4	MP ALPHA3	X	-.01	1.333
5	MP BETA3	Y	.007	4.667
6	MP BETA3	Y	.007	1.333
7	MP BETA3	X	-.012	4.667
8	MP BETA3	X	-.012	1.333
9	MP GAMMA3	Y	.006	4.667
10	MP GAMMA3	Y	.006	1.333
11	MP GAMMA3	X	-.01	4.667
12	MP GAMMA3	X	-.01	1.333
13	MP ALPHA4	Y	.004	3.833
14	MP ALPHA4	Y	.004	2.167
15	MP ALPHA4	X	-.007	3.833

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
16	MP ALPHA4	X	-.007	2.167
17	MP BETA4	Y	.006	3.833
18	MP BETA4	Y	.006	2.167
19	MP BETA4	X	-.011	3.833
20	MP BETA4	X	-.011	2.167
21	MP GAMMA4	Y	.004	3.833
22	MP GAMMA4	Y	.004	2.167
23	MP GAMMA4	X	-.007	3.833
24	MP GAMMA4	X	-.007	2.167
25	MP ALPHA1	Y	.006	4.667
26	MP ALPHA1	Y	.006	1.333
27	MP ALPHA1	X	-.01	4.667
28	MP ALPHA1	X	-.01	1.333
29	MP BETA1	Y	.007	4.667
30	MP BETA1	Y	.007	1.333
31	MP BETA1	X	-.012	4.667
32	MP BETA1	X	-.012	1.333
33	MP GAMMA1	Y	.006	4.667
34	MP GAMMA1	Y	.006	1.333
35	MP GAMMA1	X	-.01	4.667
36	MP GAMMA1	X	-.01	1.333
37	MP ALPHA2	Y	.015	8.833
38	MP ALPHA2	Y	.015	2.167
39	MP ALPHA2	X	-.025	8.833
40	MP ALPHA2	X	-.025	2.167
41	MP BETA2	Y	.025	8.833
42	MP BETA2	Y	.025	2.167
43	MP BETA2	X	-.044	8.833
44	MP BETA2	X	-.044	2.167
45	MP GAMMA2	Y	.015	8.833
46	MP GAMMA2	Y	.015	2.167
47	MP GAMMA2	X	-.025	8.833
48	MP GAMMA2	X	-.025	2.167
49	MP ALPHA2	Y	.004	5.5
50	MP ALPHA2	X	-.008	5.5
51	MP BETA2	Y	.005	5.5
52	MP BETA2	X	-.009	5.5
53	MP GAMMA2	Y	.004	5.5
54	MP GAMMA2	X	-.008	5.5
55	MP ALPHA2	Y	.003	5.5
56	MP ALPHA2	X	-.005	5.5
57	MP BETA2	Y	.005	5.5
58	MP BETA2	X	-.008	5.5
59	MP GAMMA2	Y	.003	5.5
60	MP GAMMA2	X	-.005	5.5
61	MP ALPHA1	Y	.001	1.5
62	MP ALPHA1	X	-.003	1.5
63	MP BETA1	Y	.002	1.5
64	MP BETA1	X	-.004	1.5
65	MP GAMMA1	Y	.001	1.5
66	MP GAMMA1	X	-.003	1.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	MP ALPHA3	Y	.012	4.667
2	MP ALPHA3	Y	.012	1.333
3	MP ALPHA3	X	-.007	4.667
4	MP ALPHA3	X	-.007	1.333
5	MP BETA3	Y	.012	4.667
6	MP BETA3	Y	.012	1.333
7	MP BETA3	X	-.007	4.667
8	MP BETA3	X	-.007	1.333
9	MP GAMMA3	Y	.01	4.667
10	MP GAMMA3	Y	.01	1.333
11	MP GAMMA3	X	-.006	4.667
12	MP GAMMA3	X	-.006	1.333
13	MP ALPHA4	Y	.009	3.833
14	MP ALPHA4	Y	.009	2.167
15	MP ALPHA4	X	-.005	3.833
16	MP ALPHA4	X	-.005	2.167
17	MP BETA4	Y	.009	3.833
18	MP BETA4	Y	.009	2.167
19	MP BETA4	X	-.005	3.833
20	MP BETA4	X	-.005	2.167
21	MP GAMMA4	Y	.005	3.833
22	MP GAMMA4	Y	.005	2.167
23	MP GAMMA4	X	-.003	3.833
24	MP GAMMA4	X	-.003	2.167
25	MP ALPHA1	Y	.011	4.667
26	MP ALPHA1	Y	.011	1.333
27	MP ALPHA1	X	-.006	4.667
28	MP ALPHA1	X	-.006	1.333
29	MP BETA1	Y	.011	4.667
30	MP BETA1	Y	.011	1.333
31	MP BETA1	X	-.006	4.667
32	MP BETA1	X	-.006	1.333
33	MP GAMMA1	Y	.009	4.667
34	MP GAMMA1	Y	.009	1.333
35	MP GAMMA1	X	-.005	4.667
36	MP GAMMA1	X	-.005	1.333
37	MP ALPHA2	Y	.037	8.833
38	MP ALPHA2	Y	.037	2.167
39	MP ALPHA2	X	-.022	8.833
40	MP ALPHA2	X	-.022	2.167
41	MP BETA2	Y	.037	8.833
42	MP BETA2	Y	.037	2.167
43	MP BETA2	X	-.022	8.833
44	MP BETA2	X	-.022	2.167
45	MP GAMMA2	Y	.019	8.833
46	MP GAMMA2	Y	.019	2.167
47	MP GAMMA2	X	-.011	8.833
48	MP GAMMA2	X	-.011	2.167
49	MP ALPHA2	Y	.008	5.5
50	MP ALPHA2	X	-.005	5.5
51	MP BETA2	Y	.008	5.5
52	MP BETA2	X	-.005	5.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
53	MP GAMMA2	Y	.007	5.5
54	MP GAMMA2	X	-.004	5.5
55	MP ALPHA2	Y	.007	5.5
56	MP ALPHA2	X	-.004	5.5
57	MP BETA2	Y	.007	5.5
58	MP BETA2	X	-.004	5.5
59	MP GAMMA2	Y	.005	5.5
60	MP GAMMA2	X	-.003	5.5
61	MP ALPHA1	Y	.004	1.5
62	MP ALPHA1	X	-.002	1.5
63	MP BETA1	Y	.004	1.5
64	MP BETA1	X	-.002	1.5
65	MP GAMMA1	Y	.002	1.5
66	MP GAMMA1	X	-.001	1.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	Y	.014	4.667
2	MP ALPHA3	Y	.014	1.333
3	MP BETA3	Y	.012	4.667
4	MP BETA3	Y	.012	1.333
5	MP GAMMA3	Y	.012	4.667
6	MP GAMMA3	Y	.012	1.333
7	MP ALPHA4	Y	.012	3.833
8	MP ALPHA4	Y	.012	2.167
9	MP BETA4	Y	.008	3.833
10	MP BETA4	Y	.008	2.167
11	MP GAMMA4	Y	.008	3.833
12	MP GAMMA4	Y	.008	2.167
13	MP ALPHA1	Y	.014	4.667
14	MP ALPHA1	Y	.014	1.333
15	MP BETA1	Y	.011	4.667
16	MP BETA1	Y	.011	1.333
17	MP GAMMA1	Y	.011	4.667
18	MP GAMMA1	Y	.011	1.333
19	MP ALPHA2	Y	.05	8.833
20	MP ALPHA2	Y	.05	2.167
21	MP BETA2	Y	.029	8.833
22	MP BETA2	Y	.029	2.167
23	MP GAMMA2	Y	.029	8.833
24	MP GAMMA2	Y	.029	2.167
25	MP ALPHA2	Y	.01	5.5
26	MP BETA2	Y	.009	5.5
27	MP GAMMA2	Y	.009	5.5
28	MP ALPHA2	Y	.009	5.5
29	MP BETA2	Y	.006	5.5
30	MP GAMMA2	Y	.006	5.5
31	MP ALPHA1	Y	.005	1.5
32	MP BETA1	Y	.003	1.5
33	MP GAMMA1	Y	.003	1.5



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	MP ALPHA3	Y	.012	4.667
2	MP ALPHA3	Y	.012	1.333
3	MP ALPHA3	X	.007	4.667
4	MP ALPHA3	X	.007	1.333
5	MP BETA3	Y	.01	4.667
6	MP BETA3	Y	.01	1.333
7	MP BETA3	X	.006	4.667
8	MP BETA3	X	.006	1.333
9	MP GAMMA3	Y	.012	4.667
10	MP GAMMA3	Y	.012	1.333
11	MP GAMMA3	X	.007	4.667
12	MP GAMMA3	X	.007	1.333
13	MP ALPHA4	Y	.009	3.833
14	MP ALPHA4	Y	.009	2.167
15	MP ALPHA4	X	.005	3.833
16	MP ALPHA4	X	.005	2.167
17	MP BETA4	Y	.005	3.833
18	MP BETA4	Y	.005	2.167
19	MP BETA4	X	.003	3.833
20	MP BETA4	X	.003	2.167
21	MP GAMMA4	Y	.009	3.833
22	MP GAMMA4	Y	.009	2.167
23	MP GAMMA4	X	.005	3.833
24	MP GAMMA4	X	.005	2.167
25	MP ALPHA1	Y	.011	4.667
26	MP ALPHA1	Y	.011	1.333
27	MP ALPHA1	X	.006	4.667
28	MP ALPHA1	X	.006	1.333
29	MP BETA1	Y	.009	4.667
30	MP BETA1	Y	.009	1.333
31	MP BETA1	X	.005	4.667
32	MP BETA1	X	.005	1.333
33	MP GAMMA1	Y	.011	4.667
34	MP GAMMA1	Y	.011	1.333
35	MP GAMMA1	X	.006	4.667
36	MP GAMMA1	X	.006	1.333
37	MP ALPHA2	Y	.037	8.833
38	MP ALPHA2	Y	.037	2.167
39	MP ALPHA2	X	.022	8.833
40	MP ALPHA2	X	.022	2.167
41	MP BETA2	Y	.019	8.833
42	MP BETA2	Y	.019	2.167
43	MP BETA2	X	.011	8.833
44	MP BETA2	X	.011	2.167
45	MP GAMMA2	Y	.037	8.833
46	MP GAMMA2	Y	.037	2.167
47	MP GAMMA2	X	.022	8.833
48	MP GAMMA2	X	.022	2.167
49	MP ALPHA2	Y	.008	5.5
50	MP ALPHA2	X	.005	5.5
51	MP BETA2	Y	.007	5.5
52	MP BETA2	X	.004	5.5



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
53	MP GAMMA2	Y	.008	5.5
54	MP GAMMA2	X	.005	5.5
55	MP ALPHA2	Y	.007	5.5
56	MP ALPHA2	X	.004	5.5
57	MP BETA2	Y	.005	5.5
58	MP BETA2	X	.003	5.5
59	MP GAMMA2	Y	.007	5.5
60	MP GAMMA2	X	.004	5.5
61	MP ALPHA1	Y	.004	1.5
62	MP ALPHA1	X	.002	1.5
63	MP BETA1	Y	.002	1.5
64	MP BETA1	X	.001	1.5
65	MP GAMMA1	Y	.004	1.5
66	MP GAMMA1	X	.002	1.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	Y	.006	4.667
2	MP ALPHA3	Y	.006	1.333
3	MP ALPHA3	X	.01	4.667
4	MP ALPHA3	X	.01	1.333
5	MP BETA3	Y	.006	4.667
6	MP BETA3	Y	.006	1.333
7	MP BETA3	X	.01	4.667
8	MP BETA3	X	.01	1.333
9	MP GAMMA3	Y	.007	4.667
10	MP GAMMA3	Y	.007	1.333
11	MP GAMMA3	X	.012	4.667
12	MP GAMMA3	X	.012	1.333
13	MP ALPHA4	Y	.004	3.833
14	MP ALPHA4	Y	.004	2.167
15	MP ALPHA4	X	.007	3.833
16	MP ALPHA4	X	.007	2.167
17	MP BETA4	Y	.004	3.833
18	MP BETA4	Y	.004	2.167
19	MP BETA4	X	.007	3.833
20	MP BETA4	X	.007	2.167
21	MP GAMMA4	Y	.006	3.833
22	MP GAMMA4	Y	.006	2.167
23	MP GAMMA4	X	.011	3.833
24	MP GAMMA4	X	.011	2.167
25	MP ALPHA1	Y	.006	4.667
26	MP ALPHA1	Y	.006	1.333
27	MP ALPHA1	X	.01	4.667
28	MP ALPHA1	X	.01	1.333
29	MP BETA1	Y	.006	4.667
30	MP BETA1	Y	.006	1.333
31	MP BETA1	X	.01	4.667
32	MP BETA1	X	.01	1.333
33	MP GAMMA1	Y	.007	4.667
34	MP GAMMA1	Y	.007	1.333

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
35	MP GAMMA1	X	.012	4.667
36	MP GAMMA1	X	.012	1.333
37	MP ALPHA2	Y	.015	8.833
38	MP ALPHA2	Y	.015	2.167
39	MP ALPHA2	X	.025	8.833
40	MP ALPHA2	X	.025	2.167
41	MP BETA2	Y	.015	8.833
42	MP BETA2	Y	.015	2.167
43	MP BETA2	X	.025	8.833
44	MP BETA2	X	.025	2.167
45	MP GAMMA2	Y	.025	8.833
46	MP GAMMA2	Y	.025	2.167
47	MP GAMMA2	X	.044	8.833
48	MP GAMMA2	X	.044	2.167
49	MP ALPHA2	Y	.004	5.5
50	MP ALPHA2	X	.008	5.5
51	MP BETA2	Y	.004	5.5
52	MP BETA2	X	.008	5.5
53	MP GAMMA2	Y	.005	5.5
54	MP GAMMA2	X	.009	5.5
55	MP ALPHA2	Y	.003	5.5
56	MP ALPHA2	X	.005	5.5
57	MP BETA2	Y	.003	5.5
58	MP BETA2	X	.005	5.5
59	MP GAMMA2	Y	.005	5.5
60	MP GAMMA2	X	.008	5.5
61	MP ALPHA1	Y	.001	1.5
62	MP ALPHA1	X	.003	1.5
63	MP BETA1	Y	.001	1.5
64	MP BETA1	X	.003	1.5
65	MP GAMMA1	Y	.002	1.5
66	MP GAMMA1	X	.004	1.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	MP ALPHA3	X	.011	4.667
2	MP ALPHA3	X	.011	1.333
3	MP BETA3	X	.014	4.667
4	MP BETA3	X	.014	1.333
5	MP GAMMA3	X	.014	4.667
6	MP GAMMA3	X	.014	1.333
7	MP ALPHA4	X	.006	3.833
8	MP ALPHA4	X	.006	2.167
9	MP BETA4	X	.011	3.833
10	MP BETA4	X	.011	2.167
11	MP GAMMA4	X	.011	3.833
12	MP GAMMA4	X	.011	2.167
13	MP ALPHA1	X	.01	4.667
14	MP ALPHA1	X	.01	1.333
15	MP BETA1	X	.013	4.667
16	MP BETA1	X	.013	1.333

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
17	MP GAMMA1	X	.013	4.667
18	MP GAMMA1	X	.013	1.333
19	MP ALPHA2	X	.022	8.833
20	MP ALPHA2	X	.022	2.167
21	MP BETA2	X	.043	8.833
22	MP BETA2	X	.043	2.167
23	MP GAMMA2	X	.043	8.833
24	MP GAMMA2	X	.043	2.167
25	MP ALPHA2	X	.008	5.5
26	MP BETA2	X	.01	5.5
27	MP GAMMA2	X	.01	5.5
28	MP ALPHA2	X	.005	5.5
29	MP BETA2	X	.008	5.5
30	MP GAMMA2	X	.008	5.5
31	MP ALPHA1	X	.002	1.5
32	MP BETA1	X	.004	1.5
33	MP GAMMA1	X	.004	1.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	MP ALPHA3	Y	-.006	4.667
2	MP ALPHA3	Y	-.006	1.333
3	MP ALPHA3	X	.01	4.667
4	MP ALPHA3	X	.01	1.333
5	MP BETA3	Y	-.007	4.667
6	MP BETA3	Y	-.007	1.333
7	MP BETA3	X	.012	4.667
8	MP BETA3	X	.012	1.333
9	MP GAMMA3	Y	-.006	4.667
10	MP GAMMA3	Y	-.006	1.333
11	MP GAMMA3	X	.01	4.667
12	MP GAMMA3	X	.01	1.333
13	MP ALPHA4	Y	-.004	3.833
14	MP ALPHA4	Y	-.004	2.167
15	MP ALPHA4	X	.007	3.833
16	MP ALPHA4	X	.007	2.167
17	MP BETA4	Y	-.006	3.833
18	MP BETA4	Y	-.006	2.167
19	MP BETA4	X	.011	3.833
20	MP BETA4	X	.011	2.167
21	MP GAMMA4	Y	-.004	3.833
22	MP GAMMA4	Y	-.004	2.167
23	MP GAMMA4	X	.007	3.833
24	MP GAMMA4	X	.007	2.167
25	MP ALPHA1	Y	-.006	4.667
26	MP ALPHA1	Y	-.006	1.333
27	MP ALPHA1	X	.01	4.667
28	MP ALPHA1	X	.01	1.333
29	MP BETA1	Y	-.007	4.667
30	MP BETA1	Y	-.007	1.333
31	MP BETA1	X	.012	4.667

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
32	MP BETA1	X	.012	1.333
33	MP GAMMA1	Y	-.006	4.667
34	MP GAMMA1	Y	-.006	1.333
35	MP GAMMA1	X	.01	4.667
36	MP GAMMA1	X	.01	1.333
37	MP ALPHA2	Y	-.015	8.833
38	MP ALPHA2	Y	-.015	2.167
39	MP ALPHA2	X	.025	8.833
40	MP ALPHA2	X	.025	2.167
41	MP BETA2	Y	-.025	8.833
42	MP BETA2	Y	-.025	2.167
43	MP BETA2	X	.044	8.833
44	MP BETA2	X	.044	2.167
45	MP GAMMA2	Y	-.015	8.833
46	MP GAMMA2	Y	-.015	2.167
47	MP GAMMA2	X	.025	8.833
48	MP GAMMA2	X	.025	2.167
49	MP ALPHA2	Y	-.004	5.5
50	MP ALPHA2	X	.008	5.5
51	MP BETA2	Y	-.005	5.5
52	MP BETA2	X	.009	5.5
53	MP GAMMA2	Y	-.004	5.5
54	MP GAMMA2	X	.008	5.5
55	MP ALPHA2	Y	-.003	5.5
56	MP ALPHA2	X	.005	5.5
57	MP BETA2	Y	-.005	5.5
58	MP BETA2	X	.008	5.5
59	MP GAMMA2	Y	-.003	5.5
60	MP GAMMA2	X	.005	5.5
61	MP ALPHA1	Y	-.001	1.5
62	MP ALPHA1	X	.003	1.5
63	MP BETA1	Y	-.002	1.5
64	MP BETA1	X	.004	1.5
65	MP GAMMA1	Y	-.001	1.5
66	MP GAMMA1	X	.003	1.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	MP ALPHA3	Y	-.012	4.667
2	MP ALPHA3	Y	-.012	1.333
3	MP ALPHA3	X	.007	4.667
4	MP ALPHA3	X	.007	1.333
5	MP BETA3	Y	-.012	4.667
6	MP BETA3	Y	-.012	1.333
7	MP BETA3	X	.007	4.667
8	MP BETA3	X	.007	1.333
9	MP GAMMA3	Y	-.01	4.667
10	MP GAMMA3	Y	-.01	1.333
11	MP GAMMA3	X	.006	4.667
12	MP GAMMA3	X	.006	1.333
13	MP ALPHA4	Y	-.009	3.833

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
14	MP ALPHA4	Y	-.009	2.167
15	MP ALPHA4	X	.005	3.833
16	MP ALPHA4	X	.005	2.167
17	MP BETA4	Y	-.009	3.833
18	MP BETA4	Y	-.009	2.167
19	MP BETA4	X	.005	3.833
20	MP BETA4	X	.005	2.167
21	MP GAMMA4	Y	-.005	3.833
22	MP GAMMA4	Y	-.005	2.167
23	MP GAMMA4	X	.003	3.833
24	MP GAMMA4	X	.003	2.167
25	MP ALPHA1	Y	-.011	4.667
26	MP ALPHA1	Y	-.011	1.333
27	MP ALPHA1	X	.006	4.667
28	MP ALPHA1	X	.006	1.333
29	MP BETA1	Y	-.011	4.667
30	MP BETA1	Y	-.011	1.333
31	MP BETA1	X	.006	4.667
32	MP BETA1	X	.006	1.333
33	MP GAMMA1	Y	-.009	4.667
34	MP GAMMA1	Y	-.009	1.333
35	MP GAMMA1	X	.005	4.667
36	MP GAMMA1	X	.005	1.333
37	MP ALPHA2	Y	-.037	8.833
38	MP ALPHA2	Y	-.037	2.167
39	MP ALPHA2	X	.022	8.833
40	MP ALPHA2	X	.022	2.167
41	MP BETA2	Y	-.037	8.833
42	MP BETA2	Y	-.037	2.167
43	MP BETA2	X	.022	8.833
44	MP BETA2	X	.022	2.167
45	MP GAMMA2	Y	-.019	8.833
46	MP GAMMA2	Y	-.019	2.167
47	MP GAMMA2	X	.011	8.833
48	MP GAMMA2	X	.011	2.167
49	MP ALPHA2	Y	-.008	5.5
50	MP ALPHA2	X	.005	5.5
51	MP BETA2	Y	-.008	5.5
52	MP BETA2	X	.005	5.5
53	MP GAMMA2	Y	-.007	5.5
54	MP GAMMA2	X	.004	5.5
55	MP ALPHA2	Y	-.007	5.5
56	MP ALPHA2	X	.004	5.5
57	MP BETA2	Y	-.007	5.5
58	MP BETA2	X	.004	5.5
59	MP GAMMA2	Y	-.005	5.5
60	MP GAMMA2	X	.003	5.5
61	MP ALPHA1	Y	-.004	1.5
62	MP ALPHA1	X	.002	1.5
63	MP BETA1	Y	-.004	1.5
64	MP BETA1	X	.002	1.5
65	MP GAMMA1	Y	-.002	1.5



Company : POD
 Designer : LT
 Job Number : 20-65646
 Model Name : 806369

June 19, 2020
 11:09 AM
 Checked By: _____

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
66	MP GAMMA1	X	.001	1.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	X	-.006	4.667
2	MP ALPHA3	X	-.006	1.333
3	MP BETA3	X	-.006	4.667
4	MP BETA3	X	-.006	1.333
5	MP GAMMA3	X	-.006	4.667
6	MP GAMMA3	X	-.006	1.333
7	MP ALPHA4	X	-.005	3.833
8	MP ALPHA4	X	-.005	2.167
9	MP BETA4	X	-.005	3.833
10	MP BETA4	X	-.005	2.167
11	MP GAMMA4	X	-.005	3.833
12	MP GAMMA4	X	-.005	2.167
13	MP ALPHA1	X	-.004	4.667
14	MP ALPHA1	X	-.004	1.333
15	MP BETA1	X	-.004	4.667
16	MP BETA1	X	-.004	1.333
17	MP GAMMA1	X	-.004	4.667
18	MP GAMMA1	X	-.004	1.333
19	MP ALPHA2	X	-.005	8.833
20	MP ALPHA2	X	-.005	2.167
21	MP BETA2	X	-.005	8.833
22	MP BETA2	X	-.005	2.167
23	MP GAMMA2	X	-.005	8.833
24	MP GAMMA2	X	-.005	2.167
25	MP ALPHA2	X	-.007	5.5
26	MP BETA2	X	-.007	5.5
27	MP GAMMA2	X	-.007	5.5
28	MP ALPHA2	X	-.004	5.5
29	MP BETA2	X	-.004	5.5
30	MP GAMMA2	X	-.004	5.5
31	MP ALPHA1	X	-.000811	1.5
32	MP BETA1	X	-.000811	1.5
33	MP GAMMA1	X	-.000811	1.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	Y	-.006	4.667
2	MP ALPHA3	Y	-.006	1.333
3	MP BETA3	Y	-.006	4.667
4	MP BETA3	Y	-.006	1.333
5	MP GAMMA3	Y	-.006	4.667
6	MP GAMMA3	Y	-.006	1.333
7	MP ALPHA4	Y	-.005	3.833
8	MP ALPHA4	Y	-.005	2.167
9	MP BETA4	Y	-.005	3.833
10	MP BETA4	Y	-.005	2.167
11	MP GAMMA4	Y	-.005	3.833

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
12	MP GAMMA4	Y	-.005	2.167
13	MP ALPHA1	Y	-.004	4.667
14	MP ALPHA1	Y	-.004	1.333
15	MP BETA1	Y	-.004	4.667
16	MP BETA1	Y	-.004	1.333
17	MP GAMMA1	Y	-.004	4.667
18	MP GAMMA1	Y	-.004	1.333
19	MP ALPHA2	Y	-.005	8.833
20	MP ALPHA2	Y	-.005	2.167
21	MP BETA2	Y	-.005	8.833
22	MP BETA2	Y	-.005	2.167
23	MP GAMMA2	Y	-.005	8.833
24	MP GAMMA2	Y	-.005	2.167
25	MP ALPHA2	Y	-.007	5.5
26	MP BETA2	Y	-.007	5.5
27	MP GAMMA2	Y	-.007	5.5
28	MP ALPHA2	Y	-.004	5.5
29	MP BETA2	Y	-.004	5.5
30	MP GAMMA2	Y	-.004	5.5
31	MP ALPHA1	Y	-.000811	1.5
32	MP BETA1	Y	-.000811	1.5
33	MP GAMMA1	Y	-.000811	1.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	MP ALPHA3	Z	-.003	4.667
2	MP ALPHA3	Z	-.003	1.333
3	MP BETA3	Z	-.003	4.667
4	MP BETA3	Z	-.003	1.333
5	MP GAMMA3	Z	-.003	4.667
6	MP GAMMA3	Z	-.003	1.333
7	MP ALPHA4	Z	-.002	3.833
8	MP ALPHA4	Z	-.002	2.167
9	MP BETA4	Z	-.002	3.833
10	MP BETA4	Z	-.002	2.167
11	MP GAMMA4	Z	-.002	3.833
12	MP GAMMA4	Z	-.002	2.167
13	MP ALPHA1	Z	-.002	4.667
14	MP ALPHA1	Z	-.002	1.333
15	MP BETA1	Z	-.002	4.667
16	MP BETA1	Z	-.002	1.333
17	MP GAMMA1	Z	-.002	4.667
18	MP GAMMA1	Z	-.002	1.333
19	MP ALPHA2	Z	-.002	8.833
20	MP ALPHA2	Z	-.002	2.167
21	MP BETA2	Z	-.002	8.833
22	MP BETA2	Z	-.002	2.167
23	MP GAMMA2	Z	-.002	8.833
24	MP GAMMA2	Z	-.002	2.167
25	MP ALPHA2	Z	-.003	5.5
26	MP BETA2	Z	-.003	5.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
27	MP GAMMA2	Z	-.003	5.5
28	MP ALPHA2	Z	-.002	5.5
29	MP BETA2	Z	-.002	5.5
30	MP GAMMA2	Z	-.002	5.5
31	MP ALPHA1	Z	-.000324	1.5
32	MP BETA1	Z	-.000324	1.5
33	MP GAMMA1	Z	-.000324	1.5

Member Area Loads (BLC 3 : Dead Load)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N165	N73A	N70B	N69A	Z	Two Way	-.01
2	N165	N69A	N166		Z	Two Way	-.01
3	N74A	N162A	N161A	N70A	Z	Two Way	-.01
4	N70A	N69B	N74A		Z	Two Way	-.01
5	N69A	N70B	N163		Z	Two Way	-.01
6	N70B	N69B	N164	N163	Z	Two Way	-.01
7	N69B	N70A	N164		Z	Two Way	-.01

Member Area Loads (BLC 27 : Ice Dead Load)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N165	N73A	N70B	N69A	Z	Two Way	-.02
2	N165	N69A	N166		Z	Two Way	-.02
3	N74A	N162A	N161A	N70A	Z	Two Way	-.02
4	N70A	N69B	N74A		Z	Two Way	-.02
5	N69A	N70B	N163		Z	Two Way	-.02
6	N70B	N69B	N164	N163	Z	Two Way	-.02
7	N69B	N70A	N164		Z	Two Way	-.02

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

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
1	SUP2	PY	-.012	-.012	0 0
2	SUP1	PY	-.012	-.012	0 0
3	SO3	PY	-.008	-.008	0 0
4	SO2	PY	-.008	-.008	0 0
5	SO1	PY	-.008	-.008	0 0
6	RAIL3c	PY	-.016	-.016	0 0
7	RAIL3b	PY	-.016	-.016	0 0
8	RAIL3a	PY	-.016	-.016	0 0
9	RAIL2c	PY	-.016	-.016	0 0
10	RAIL2b	PY	-.016	-.016	0 0
11	RAIL2a	PY	-.016	-.016	0 0
12	RAIL1c	PY	-.009	-.009	0 0
13	RAIL1b	PY	-.009	-.009	0 0
14	RAIL1a	PY	-.009	-.009	0 0
15	PLATE3	PY	-.002	-.002	0 0
16	PLATE2	PY	-.002	-.002	0 0
17	PLATE1	PY	-.002	-.002	0 0
18	MP GAMMA4	PY	-.01	-.01	0 0

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

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
19	MP GAMMA3	PY	-.01	-.01	0 0
20	MP GAMMA2	PY	-.01	-.01	0 0
21	MP GAMMA1	PY	-.01	-.01	0 0
22	MP BETA4	PY	-.01	-.01	0 0
23	MP BETA3	PY	-.01	-.01	0 0
24	MP BETA2	PY	-.01	-.01	0 0
25	MP BETA1	PY	-.01	-.01	0 0
26	MP ALPHA4	PY	-.01	-.01	0 0
27	MP ALPHA3	PY	-.01	-.01	0 0
28	MP ALPHA2	PY	-.01	-.01	0 0
29	MP ALPHA1	PY	-.01	-.01	0 0
30	FACE3	PY	-.027	-.027	0 0
31	FACE2	PY	-.027	-.027	0 0
32	FACE1	PY	-.015	-.015	0 0
33	CORNER	PY	-.012	-.012	0 0
34	KICKER3	PY	-.008	-.008	0 0
35	KICKER1	PY	-.008	-.008	0 0
36	KICKER2	PY	-.008	-.008	0 0

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

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
1	SUP2	PY	-.01	-.01	0 0
2	SUP1	PY	-.01	-.01	0 0
3	SO3	PY	-.006	-.006	0 0
4	SO2	PY	-.006	-.006	0 0
5	SO1	PY	-.006	-.006	0 0
6	RAIL3c	PY	-.014	-.014	0 0
7	RAIL3b	PY	-.014	-.014	0 0
8	RAIL3a	PY	-.014	-.014	0 0
9	RAIL2c	PY	-.014	-.014	0 0
10	RAIL2b	PY	-.014	-.014	0 0
11	RAIL2a	PY	-.014	-.014	0 0
12	RAIL1c	PY	-.008	-.008	0 0
13	RAIL1b	PY	-.008	-.008	0 0
14	RAIL1a	PY	-.008	-.008	0 0
15	PLATE3	PY	-.001	-.001	0 0
16	PLATE2	PY	-.001	-.001	0 0
17	PLATE1	PY	-.001	-.001	0 0
18	MP GAMMA4	PY	-.009	-.009	0 0
19	MP GAMMA3	PY	-.009	-.009	0 0
20	MP GAMMA2	PY	-.009	-.009	0 0
21	MP GAMMA1	PY	-.009	-.009	0 0
22	MP BETA4	PY	-.009	-.009	0 0
23	MP BETA3	PY	-.009	-.009	0 0
24	MP BETA2	PY	-.009	-.009	0 0
25	MP BETA1	PY	-.009	-.009	0 0
26	MP ALPHA4	PY	-.009	-.009	0 0
27	MP ALPHA3	PY	-.009	-.009	0 0
28	MP ALPHA2	PY	-.009	-.009	0 0
29	MP ALPHA1	PY	-.009	-.009	0 0
30	FACE3	PY	-.023	-.023	0 0

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

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
31	FACE2	PY	-.023	-.023	0 0
32	FACE1	PY	-.013	-.013	0 0
33	CORNER	PY	-.01	-.01	0 0
34	SUP2	PX	-.006	-.006	0 0
35	SUP1	PX	-.006	-.006	0 0
36	SO3	PX	-.004	-.004	0 0
37	SO2	PX	-.004	-.004	0 0
38	SO1	PX	-.004	-.004	0 0
39	RAIL3c	PX	-.008	-.008	0 0
40	RAIL3b	PX	-.008	-.008	0 0
41	RAIL3a	PX	-.008	-.008	0 0
42	RAIL2c	PX	-.008	-.008	0 0
43	RAIL2b	PX	-.008	-.008	0 0
44	RAIL2a	PX	-.008	-.008	0 0
45	RAIL1c	PX	-.005	-.005	0 0
46	RAIL1b	PX	-.005	-.005	0 0
47	RAIL1a	PX	-.005	-.005	0 0
48	PLATE3	PX	-.00075	-.00075	0 0
49	PLATE2	PX	-.00075	-.00075	0 0
50	PLATE1	PX	-.00075	-.00075	0 0
51	MP GAMMA4	PX	-.005	-.005	0 0
52	MP GAMMA3	PX	-.005	-.005	0 0
53	MP GAMMA2	PX	-.005	-.005	0 0
54	MP GAMMA1	PX	-.005	-.005	0 0
55	MP BETA4	PX	-.005	-.005	0 0
56	MP BETA3	PX	-.005	-.005	0 0
57	MP BETA2	PX	-.005	-.005	0 0
58	MP BETA1	PX	-.005	-.005	0 0
59	MP ALPHA4	PX	-.005	-.005	0 0
60	MP ALPHA3	PX	-.005	-.005	0 0
61	MP ALPHA2	PX	-.005	-.005	0 0
62	MP ALPHA1	PX	-.005	-.005	0 0
63	FACE3	PX	-.014	-.014	0 0
64	FACE2	PX	-.014	-.014	0 0
65	FACE1	PX	-.008	-.008	0 0
66	CORNER	PX	-.006	-.006	0 0
67	KICKER3	PY	-.006	-.006	0 0
68	KICKER3	PX	-.004	-.004	0 0
69	KICKER1	PY	-.006	-.006	0 0
70	KICKER1	PX	-.004	-.004	0 0
71	KICKER2	PY	-.006	-.006	0 0
72	KICKER2	PX	-.004	-.004	0 0

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

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
1	SUP2	PY	-.006	-.006	0 0
2	SUP1	PY	-.006	-.006	0 0
3	SO3	PY	-.004	-.004	0 0
4	SO2	PY	-.004	-.004	0 0
5	SO1	PY	-.004	-.004	0 0
6	RAIL3c	PY	-.008	-.008	0 0



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

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
7	RAIL3b	PY	-.008	-.008	0 0
8	RAIL3a	PY	-.008	-.008	0 0
9	RAIL2c	PY	-.008	-.008	0 0
10	RAIL2b	PY	-.008	-.008	0 0
11	RAIL2a	PY	-.008	-.008	0 0
12	RAIL1c	PY	-.005	-.005	0 0
13	RAIL1b	PY	-.005	-.005	0 0
14	RAIL1a	PY	-.005	-.005	0 0
15	PLATE3	PY	-.00075	-.00075	0 0
16	PLATE2	PY	-.00075	-.00075	0 0
17	PLATE1	PY	-.00075	-.00075	0 0
18	MP GAMMA4	PY	-.005	-.005	0 0
19	MP GAMMA3	PY	-.005	-.005	0 0
20	MP GAMMA2	PY	-.005	-.005	0 0
21	MP GAMMA1	PY	-.005	-.005	0 0
22	MP BETA4	PY	-.005	-.005	0 0
23	MP BETA3	PY	-.005	-.005	0 0
24	MP BETA2	PY	-.005	-.005	0 0
25	MP BETA1	PY	-.005	-.005	0 0
26	MP ALPHA4	PY	-.005	-.005	0 0
27	MP ALPHA3	PY	-.005	-.005	0 0
28	MP ALPHA2	PY	-.005	-.005	0 0
29	MP ALPHA1	PY	-.005	-.005	0 0
30	FACE3	PY	-.014	-.014	0 0
31	FACE2	PY	-.014	-.014	0 0
32	FACE1	PY	-.008	-.008	0 0
33	CORNER	PY	-.006	-.006	0 0
34	SUP2	PX	-.01	-.01	0 0
35	SUP1	PX	-.01	-.01	0 0
36	SO3	PX	-.006	-.006	0 0
37	SO2	PX	-.006	-.006	0 0
38	SO1	PX	-.006	-.006	0 0
39	RAIL3c	PX	-.014	-.014	0 0
40	RAIL3b	PX	-.014	-.014	0 0
41	RAIL3a	PX	-.014	-.014	0 0
42	RAIL2c	PX	-.014	-.014	0 0
43	RAIL2b	PX	-.014	-.014	0 0
44	RAIL2a	PX	-.014	-.014	0 0
45	RAIL1c	PX	-.008	-.008	0 0
46	RAIL1b	PX	-.008	-.008	0 0
47	RAIL1a	PX	-.008	-.008	0 0
48	PLATE3	PX	-.001	-.001	0 0
49	PLATE2	PX	-.001	-.001	0 0
50	PLATE1	PX	-.001	-.001	0 0
51	MP GAMMA4	PX	-.009	-.009	0 0
52	MP GAMMA3	PX	-.009	-.009	0 0
53	MP GAMMA2	PX	-.009	-.009	0 0
54	MP GAMMA1	PX	-.009	-.009	0 0
55	MP BETA4	PX	-.009	-.009	0 0
56	MP BETA3	PX	-.009	-.009	0 0
57	MP BETA2	PX	-.009	-.009	0 0
58	MP BETA1	PX	-.009	-.009	0 0

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

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
59	MP ALPHA4	PX	-.009	-.009	0 0
60	MP ALPHA3	PX	-.009	-.009	0 0
61	MP ALPHA2	PX	-.009	-.009	0 0
62	MP ALPHA1	PX	-.009	-.009	0 0
63	FACE3	PX	-.023	-.023	0 0
64	FACE2	PX	-.023	-.023	0 0
65	FACE1	PX	-.013	-.013	0 0
66	CORNER	PX	-.01	-.01	0 0
67	KICKER3	PY	-.004	-.004	0 0
68	KICKER3	PX	-.006	-.006	0 0
69	KICKER1	PY	-.004	-.004	0 0
70	KICKER1	PX	-.006	-.006	0 0
71	KICKER2	PY	-.004	-.004	0 0
72	KICKER2	PX	-.006	-.006	0 0

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

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
1	SUP2	PX	-.012	-.012	0 0
2	SUP1	PX	-.012	-.012	0 0
3	SO3	PX	-.008	-.008	0 0
4	SO2	PX	-.008	-.008	0 0
5	SO1	PX	-.008	-.008	0 0
6	RAIL3c	PX	-.016	-.016	0 0
7	RAIL3b	PX	-.016	-.016	0 0
8	RAIL3a	PX	-.016	-.016	0 0
9	RAIL1c	PX	-.016	-.016	0 0
10	RAIL1b	PX	-.016	-.016	0 0
11	RAIL1a	PX	-.016	-.016	0 0
12	RAIL2c	PX	-.009	-.009	0 0
13	RAIL2b	PX	-.009	-.009	0 0
14	RAIL2a	PX	-.009	-.009	0 0
15	PLATE3	PX	-.002	-.002	0 0
16	PLATE2	PX	-.002	-.002	0 0
17	PLATE1	PX	-.002	-.002	0 0
18	MP GAMMA4	PX	-.01	-.01	0 0
19	MP GAMMA3	PX	-.01	-.01	0 0
20	MP GAMMA2	PX	-.01	-.01	0 0
21	MP GAMMA1	PX	-.01	-.01	0 0
22	MP BETA4	PX	-.01	-.01	0 0
23	MP BETA3	PX	-.01	-.01	0 0
24	MP BETA2	PX	-.01	-.01	0 0
25	MP BETA1	PX	-.01	-.01	0 0
26	MP ALPHA4	PX	-.01	-.01	0 0
27	MP ALPHA3	PX	-.01	-.01	0 0
28	MP ALPHA2	PX	-.01	-.01	0 0
29	MP ALPHA1	PX	-.01	-.01	0 0
30	FACE3	PX	-.027	-.027	0 0
31	FACE1	PX	-.027	-.027	0 0
32	FACE2	PX	-.015	-.015	0 0
33	CORNER	PX	-.012	-.012	0 0
34	KICKER3	PX	-.008	-.008	0 0

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

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
35	KICKER1	PX	-.008	-.008	0 0
36	KICKER2	PX	-.008	-.008	0 0

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

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
1	SUP2	PY	.006	.006	0 0
2	SUP1	PY	.006	.006	0 0
3	SO3	PY	.004	.004	0 0
4	SO2	PY	.004	.004	0 0
5	SO1	PY	.004	.004	0 0
6	RAIL3c	PY	.008	.008	0 0
7	RAIL3b	PY	.008	.008	0 0
8	RAIL3a	PY	.008	.008	0 0
9	RAIL1c	PY	.008	.008	0 0
10	RAIL1b	PY	.008	.008	0 0
11	RAIL1a	PY	.008	.008	0 0
12	RAIL2c	PY	.005	.005	0 0
13	RAIL2b	PY	.005	.005	0 0
14	RAIL2a	PY	.005	.005	0 0
15	PLATE3	PY	.00075	.00075	0 0
16	PLATE2	PY	.00075	.00075	0 0
17	PLATE1	PY	.00075	.00075	0 0
18	MP GAMMA4	PY	.005	.005	0 0
19	MP GAMMA3	PY	.005	.005	0 0
20	MP GAMMA2	PY	.005	.005	0 0
21	MP GAMMA1	PY	.005	.005	0 0
22	MP BETA4	PY	.005	.005	0 0
23	MP BETA3	PY	.005	.005	0 0
24	MP BETA2	PY	.005	.005	0 0
25	MP BETA1	PY	.005	.005	0 0
26	MP ALPHA4	PY	.005	.005	0 0
27	MP ALPHA3	PY	.005	.005	0 0
28	MP ALPHA2	PY	.005	.005	0 0
29	MP ALPHA1	PY	.005	.005	0 0
30	FACE3	PY	.014	.014	0 0
31	FACE1	PY	.014	.014	0 0
32	FACE2	PY	.008	.008	0 0
33	CORNER	PY	.006	.006	0 0
34	SUP2	PX	-.01	-.01	0 0
35	SUP1	PX	-.01	-.01	0 0
36	SO3	PX	-.006	-.006	0 0
37	SO2	PX	-.006	-.006	0 0
38	SO1	PX	-.006	-.006	0 0
39	RAIL3c	PX	-.014	-.014	0 0
40	RAIL3b	PX	-.014	-.014	0 0
41	RAIL3a	PX	-.014	-.014	0 0
42	RAIL1c	PX	-.014	-.014	0 0
43	RAIL1b	PX	-.014	-.014	0 0
44	RAIL1a	PX	-.014	-.014	0 0
45	RAIL2c	PX	-.008	-.008	0 0
46	RAIL2b	PX	-.008	-.008	0 0

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

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
47	RAIL2a	PX	-.008	-.008	0 0
48	PLATE3	PX	-.001	-.001	0 0
49	PLATE2	PX	-.001	-.001	0 0
50	PLATE1	PX	-.001	-.001	0 0
51	MP GAMMA4	PX	-.009	-.009	0 0
52	MP GAMMA3	PX	-.009	-.009	0 0
53	MP GAMMA2	PX	-.009	-.009	0 0
54	MP GAMMA1	PX	-.009	-.009	0 0
55	MP BETA4	PX	-.009	-.009	0 0
56	MP BETA3	PX	-.009	-.009	0 0
57	MP BETA2	PX	-.009	-.009	0 0
58	MP BETA1	PX	-.009	-.009	0 0
59	MP ALPHA4	PX	-.009	-.009	0 0
60	MP ALPHA3	PX	-.009	-.009	0 0
61	MP ALPHA2	PX	-.009	-.009	0 0
62	MP ALPHA1	PX	-.009	-.009	0 0
63	FACE3	PX	-.023	-.023	0 0
64	FACE1	PX	-.023	-.023	0 0
65	FACE2	PX	-.013	-.013	0 0
66	CORNER	PX	-.01	-.01	0 0
67	KICKER3	PY	.004	.004	0 0
68	KICKER3	PX	-.006	-.006	0 0
69	KICKER1	PY	.004	.004	0 0
70	KICKER1	PX	-.006	-.006	0 0
71	KICKER2	PY	.004	.004	0 0
72	KICKER2	PX	-.006	-.006	0 0

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

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
1	SUP2	PY	.01	.01	0 0
2	SUP1	PY	.01	.01	0 0
3	SO3	PY	.006	.006	0 0
4	SO2	PY	.006	.006	0 0
5	SO1	PY	.006	.006	0 0
6	RAIL3c	PY	.014	.014	0 0
7	RAIL3b	PY	.014	.014	0 0
8	RAIL3a	PY	.014	.014	0 0
9	RAIL1c	PY	.014	.014	0 0
10	RAIL1b	PY	.014	.014	0 0
11	RAIL1a	PY	.014	.014	0 0
12	RAIL2c	PY	.008	.008	0 0
13	RAIL2b	PY	.008	.008	0 0
14	RAIL2a	PY	.008	.008	0 0
15	PLATE3	PY	.001	.001	0 0
16	PLATE2	PY	.001	.001	0 0
17	PLATE1	PY	.001	.001	0 0
18	MP GAMMA4	PY	.009	.009	0 0
19	MP GAMMA3	PY	.009	.009	0 0
20	MP GAMMA2	PY	.009	.009	0 0
21	MP GAMMA1	PY	.009	.009	0 0
22	MP BETA4	PY	.009	.009	0 0

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

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
23	MP BETA3	PY	.009	.009	0 0
24	MP BETA2	PY	.009	.009	0 0
25	MP BETA1	PY	.009	.009	0 0
26	MP ALPHA4	PY	.009	.009	0 0
27	MP ALPHA3	PY	.009	.009	0 0
28	MP ALPHA2	PY	.009	.009	0 0
29	MP ALPHA1	PY	.009	.009	0 0
30	FACE3	PY	.023	.023	0 0
31	FACE1	PY	.023	.023	0 0
32	FACE2	PY	.013	.013	0 0
33	CORNER	PY	.01	.01	0 0
34	SUP2	PX	-.006	-.006	0 0
35	SUP1	PX	-.006	-.006	0 0
36	SO3	PX	-.004	-.004	0 0
37	SO2	PX	-.004	-.004	0 0
38	SO1	PX	-.004	-.004	0 0
39	RAIL3c	PX	-.008	-.008	0 0
40	RAIL3b	PX	-.008	-.008	0 0
41	RAIL3a	PX	-.008	-.008	0 0
42	RAIL1c	PX	-.008	-.008	0 0
43	RAIL1b	PX	-.008	-.008	0 0
44	RAIL1a	PX	-.008	-.008	0 0
45	RAIL2c	PX	-.005	-.005	0 0
46	RAIL2b	PX	-.005	-.005	0 0
47	RAIL2a	PX	-.005	-.005	0 0
48	PLATE3	PX	-.00075	-.00075	0 0
49	PLATE2	PX	-.00075	-.00075	0 0
50	PLATE1	PX	-.00075	-.00075	0 0
51	MP GAMMA4	PX	-.005	-.005	0 0
52	MP GAMMA3	PX	-.005	-.005	0 0
53	MP GAMMA2	PX	-.005	-.005	0 0
54	MP GAMMA1	PX	-.005	-.005	0 0
55	MP BETA4	PX	-.005	-.005	0 0
56	MP BETA3	PX	-.005	-.005	0 0
57	MP BETA2	PX	-.005	-.005	0 0
58	MP BETA1	PX	-.005	-.005	0 0
59	MP ALPHA4	PX	-.005	-.005	0 0
60	MP ALPHA3	PX	-.005	-.005	0 0
61	MP ALPHA2	PX	-.005	-.005	0 0
62	MP ALPHA1	PX	-.005	-.005	0 0
63	FACE3	PX	-.014	-.014	0 0
64	FACE1	PX	-.014	-.014	0 0
65	FACE2	PX	-.008	-.008	0 0
66	CORNER	PX	-.006	-.006	0 0
67	KICKER3	PY	.006	.006	0 0
68	KICKER3	PX	-.004	-.004	0 0
69	KICKER1	PY	.006	.006	0 0
70	KICKER1	PX	-.004	-.004	0 0
71	KICKER2	PY	.006	.006	0 0
72	KICKER2	PX	-.004	-.004	0 0



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

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
1	SUP2	PY	.012	.012	0 0
2	SUP1	PY	.012	.012	0 0
3	SO3	PY	.008	.008	0 0
4	SO2	PY	.008	.008	0 0
5	SO1	PY	.008	.008	0 0
6	RAIL3c	PY	.016	.016	0 0
7	RAIL3b	PY	.016	.016	0 0
8	RAIL3a	PY	.016	.016	0 0
9	RAIL1c	PY	.016	.016	0 0
10	RAIL1b	PY	.016	.016	0 0
11	RAIL1a	PY	.016	.016	0 0
12	RAIL2c	PY	.009	.009	0 0
13	RAIL2b	PY	.009	.009	0 0
14	RAIL2a	PY	.009	.009	0 0
15	PLATE3	PY	.002	.002	0 0
16	PLATE2	PY	.002	.002	0 0
17	PLATE1	PY	.002	.002	0 0
18	MP GAMMA4	PY	.01	.01	0 0
19	MP GAMMA3	PY	.01	.01	0 0
20	MP GAMMA2	PY	.01	.01	0 0
21	MP GAMMA1	PY	.01	.01	0 0
22	MP BETA4	PY	.01	.01	0 0
23	MP BETA3	PY	.01	.01	0 0
24	MP BETA2	PY	.01	.01	0 0
25	MP BETA1	PY	.01	.01	0 0
26	MP ALPHA4	PY	.01	.01	0 0
27	MP ALPHA3	PY	.01	.01	0 0
28	MP ALPHA2	PY	.01	.01	0 0
29	MP ALPHA1	PY	.01	.01	0 0
30	FACE3	PY	.027	.027	0 0
31	FACE1	PY	.027	.027	0 0
32	FACE2	PY	.015	.015	0 0
33	CORNER	PY	.012	.012	0 0
34	KICKER3	PY	.008	.008	0 0
35	KICKER1	PY	.008	.008	0 0
36	KICKER2	PY	.008	.008	0 0

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

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
1	SUP2	PY	.01	.01	0 0
2	SUP1	PY	.01	.01	0 0
3	SO3	PY	.006	.006	0 0
4	SO2	PY	.006	.006	0 0
5	SO1	PY	.006	.006	0 0
6	RAIL1c	PY	.014	.014	0 0
7	RAIL1b	PY	.014	.014	0 0
8	RAIL1a	PY	.014	.014	0 0
9	RAIL2c	PY	.014	.014	0 0
10	RAIL2b	PY	.014	.014	0 0
11	RAIL2a	PY	.014	.014	0 0
12	RAIL3c	PY	.008	.008	0 0



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

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
13	RAIL3b	PY	.008	.008	0 0
14	RAIL3a	PY	.008	.008	0 0
15	PLATE3	PY	.001	.001	0 0
16	PLATE2	PY	.001	.001	0 0
17	PLATE1	PY	.001	.001	0 0
18	MP GAMMA4	PY	.009	.009	0 0
19	MP GAMMA3	PY	.009	.009	0 0
20	MP GAMMA2	PY	.009	.009	0 0
21	MP GAMMA1	PY	.009	.009	0 0
22	MP BETA4	PY	.009	.009	0 0
23	MP BETA3	PY	.009	.009	0 0
24	MP BETA2	PY	.009	.009	0 0
25	MP BETA1	PY	.009	.009	0 0
26	MP ALPHA4	PY	.009	.009	0 0
27	MP ALPHA3	PY	.009	.009	0 0
28	MP ALPHA2	PY	.009	.009	0 0
29	MP ALPHA1	PY	.009	.009	0 0
30	FACE1	PY	.023	.023	0 0
31	FACE2	PY	.023	.023	0 0
32	FACE3	PY	.013	.013	0 0
33	CORNER	PY	.01	.01	0 0
34	SUP2	PX	.006	.006	0 0
35	SUP1	PX	.006	.006	0 0
36	SO3	PX	.004	.004	0 0
37	SO2	PX	.004	.004	0 0
38	SO1	PX	.004	.004	0 0
39	RAIL1c	PX	.008	.008	0 0
40	RAIL1b	PX	.008	.008	0 0
41	RAIL1a	PX	.008	.008	0 0
42	RAIL2c	PX	.008	.008	0 0
43	RAIL2b	PX	.008	.008	0 0
44	RAIL2a	PX	.008	.008	0 0
45	RAIL3c	PX	.005	.005	0 0
46	RAIL3b	PX	.005	.005	0 0
47	RAIL3a	PX	.005	.005	0 0
48	PLATE3	PX	.00075	.00075	0 0
49	PLATE2	PX	.00075	.00075	0 0
50	PLATE1	PX	.00075	.00075	0 0
51	MP GAMMA4	PX	.005	.005	0 0
52	MP GAMMA3	PX	.005	.005	0 0
53	MP GAMMA2	PX	.005	.005	0 0
54	MP GAMMA1	PX	.005	.005	0 0
55	MP BETA4	PX	.005	.005	0 0
56	MP BETA3	PX	.005	.005	0 0
57	MP BETA2	PX	.005	.005	0 0
58	MP BETA1	PX	.005	.005	0 0
59	MP ALPHA4	PX	.005	.005	0 0
60	MP ALPHA3	PX	.005	.005	0 0
61	MP ALPHA2	PX	.005	.005	0 0
62	MP ALPHA1	PX	.005	.005	0 0
63	FACE1	PX	.014	.014	0 0
64	FACE2	PX	.014	.014	0 0



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

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
65	FACE3	PX	.008	.008	0 0
66	CORNER	PX	.006	.006	0 0
67	KICKER3	PY	.006	.006	0 0
68	KICKER3	PX	.004	.004	0 0
69	KICKER1	PY	.006	.006	0 0
70	KICKER1	PX	.004	.004	0 0
71	KICKER2	PY	.006	.006	0 0
72	KICKER2	PX	.004	.004	0 0

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

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
1	SUP2	PY	.006	.006	0 0
2	SUP1	PY	.006	.006	0 0
3	SO3	PY	.004	.004	0 0
4	SO2	PY	.004	.004	0 0
5	SO1	PY	.004	.004	0 0
6	RAIL1c	PY	.008	.008	0 0
7	RAIL1b	PY	.008	.008	0 0
8	RAIL1a	PY	.008	.008	0 0
9	RAIL2c	PY	.008	.008	0 0
10	RAIL2b	PY	.008	.008	0 0
11	RAIL2a	PY	.008	.008	0 0
12	RAIL3c	PY	.005	.005	0 0
13	RAIL3b	PY	.005	.005	0 0
14	RAIL3a	PY	.005	.005	0 0
15	PLATE3	PY	.00075	.00075	0 0
16	PLATE2	PY	.00075	.00075	0 0
17	PLATE1	PY	.00075	.00075	0 0
18	MP GAMMA4	PY	.005	.005	0 0
19	MP GAMMA3	PY	.005	.005	0 0
20	MP GAMMA2	PY	.005	.005	0 0
21	MP GAMMA1	PY	.005	.005	0 0
22	MP BETA4	PY	.005	.005	0 0
23	MP BETA3	PY	.005	.005	0 0
24	MP BETA2	PY	.005	.005	0 0
25	MP BETA1	PY	.005	.005	0 0
26	MP ALPHA4	PY	.005	.005	0 0
27	MP ALPHA3	PY	.005	.005	0 0
28	MP ALPHA2	PY	.005	.005	0 0
29	MP ALPHA1	PY	.005	.005	0 0
30	FACE1	PY	.014	.014	0 0
31	FACE2	PY	.014	.014	0 0
32	FACE3	PY	.008	.008	0 0
33	CORNER	PY	.006	.006	0 0
34	SUP2	PX	.01	.01	0 0
35	SUP1	PX	.01	.01	0 0
36	SO3	PX	.006	.006	0 0
37	SO2	PX	.006	.006	0 0
38	SO1	PX	.006	.006	0 0
39	RAIL1c	PX	.014	.014	0 0
40	RAIL1b	PX	.014	.014	0 0

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

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
41	RAIL1a	PX	.014	.014	0 0
42	RAIL2c	PX	.014	.014	0 0
43	RAIL2b	PX	.014	.014	0 0
44	RAIL2a	PX	.014	.014	0 0
45	RAIL3c	PX	.008	.008	0 0
46	RAIL3b	PX	.008	.008	0 0
47	RAIL3a	PX	.008	.008	0 0
48	PLATE3	PX	.001	.001	0 0
49	PLATE2	PX	.001	.001	0 0
50	PLATE1	PX	.001	.001	0 0
51	MP GAMMA4	PX	.009	.009	0 0
52	MP GAMMA3	PX	.009	.009	0 0
53	MP GAMMA2	PX	.009	.009	0 0
54	MP GAMMA1	PX	.009	.009	0 0
55	MP BETA4	PX	.009	.009	0 0
56	MP BETA3	PX	.009	.009	0 0
57	MP BETA2	PX	.009	.009	0 0
58	MP BETA1	PX	.009	.009	0 0
59	MP ALPHA4	PX	.009	.009	0 0
60	MP ALPHA3	PX	.009	.009	0 0
61	MP ALPHA2	PX	.009	.009	0 0
62	MP ALPHA1	PX	.009	.009	0 0
63	FACE1	PX	.023	.023	0 0
64	FACE2	PX	.023	.023	0 0
65	FACE3	PX	.013	.013	0 0
66	CORNER	PX	.01	.01	0 0
67	KICKER3	PY	.004	.004	0 0
68	KICKER3	PX	.006	.006	0 0
69	KICKER1	PY	.004	.004	0 0
70	KICKER1	PX	.006	.006	0 0
71	KICKER2	PY	.004	.004	0 0
72	KICKER2	PX	.006	.006	0 0

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

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
1	SUP2	PX	.012	.012	0 0
2	SUP1	PX	.012	.012	0 0
3	SO3	PX	.008	.008	0 0
4	SO2	PX	.008	.008	0 0
5	SO1	PX	.008	.008	0 0
6	RAIL1c	PX	.016	.016	0 0
7	RAIL1b	PX	.016	.016	0 0
8	RAIL1a	PX	.016	.016	0 0
9	RAIL2c	PX	.016	.016	0 0
10	RAIL2b	PX	.016	.016	0 0
11	RAIL2a	PX	.016	.016	0 0
12	RAIL3c	PX	.009	.009	0 0
13	RAIL3b	PX	.009	.009	0 0
14	RAIL3a	PX	.009	.009	0 0
15	PLATE3	PX	.002	.002	0 0
16	PLATE2	PX	.002	.002	0 0

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

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...	End Location[ft,...
17	PLATE1	PX	.002	.002	0	0
18	MP GAMMA4	PX	.01	.01	0	0
19	MP GAMMA3	PX	.01	.01	0	0
20	MP GAMMA2	PX	.01	.01	0	0
21	MP GAMMA1	PX	.01	.01	0	0
22	MP BETA4	PX	.01	.01	0	0
23	MP BETA3	PX	.01	.01	0	0
24	MP BETA2	PX	.01	.01	0	0
25	MP BETA1	PX	.01	.01	0	0
26	MP ALPHA4	PX	.01	.01	0	0
27	MP ALPHA3	PX	.01	.01	0	0
28	MP ALPHA2	PX	.01	.01	0	0
29	MP ALPHA1	PX	.01	.01	0	0
30	FACE1	PX	.027	.027	0	0
31	FACE2	PX	.027	.027	0	0
32	FACE3	PX	.015	.015	0	0
33	CORNER	PX	.012	.012	0	0
34	KICKER3	PX	.008	.008	0	0
35	KICKER1	PX	.008	.008	0	0
36	KICKER2	PX	.008	.008	0	0

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

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...	End Location[ft,...
1	SUP2	PY	-.006	-.006	0	0
2	SUP1	PY	-.006	-.006	0	0
3	SO3	PY	-.004	-.004	0	0
4	SO2	PY	-.004	-.004	0	0
5	SO1	PY	-.004	-.004	0	0
6	RAIL1c	PY	-.008	-.008	0	0
7	RAIL1b	PY	-.008	-.008	0	0
8	RAIL1a	PY	-.008	-.008	0	0
9	RAIL2c	PY	-.008	-.008	0	0
10	RAIL2b	PY	-.008	-.008	0	0
11	RAIL2a	PY	-.008	-.008	0	0
12	RAIL3c	PY	-.005	-.005	0	0
13	RAIL3b	PY	-.005	-.005	0	0
14	RAIL3a	PY	-.005	-.005	0	0
15	PLATE3	PY	-.00075	-.00075	0	0
16	PLATE2	PY	-.00075	-.00075	0	0
17	PLATE1	PY	-.00075	-.00075	0	0
18	MP GAMMA4	PY	-.005	-.005	0	0
19	MP GAMMA3	PY	-.005	-.005	0	0
20	MP GAMMA2	PY	-.005	-.005	0	0
21	MP GAMMA1	PY	-.005	-.005	0	0
22	MP BETA4	PY	-.005	-.005	0	0
23	MP BETA3	PY	-.005	-.005	0	0
24	MP BETA2	PY	-.005	-.005	0	0
25	MP BETA1	PY	-.005	-.005	0	0
26	MP ALPHA4	PY	-.005	-.005	0	0
27	MP ALPHA3	PY	-.005	-.005	0	0
28	MP ALPHA2	PY	-.005	-.005	0	0



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

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
29	MP ALPHA1	PY	-.005	-.005	0 0
30	FACE1	PY	-.014	-.014	0 0
31	FACE2	PY	-.014	-.014	0 0
32	FACE3	PY	-.008	-.008	0 0
33	CORNER	PY	-.006	-.006	0 0
34	SUP2	PX	.01	.01	0 0
35	SUP1	PX	.01	.01	0 0
36	SO3	PX	.006	.006	0 0
37	SO2	PX	.006	.006	0 0
38	SO1	PX	.006	.006	0 0
39	RAIL1c	PX	.014	.014	0 0
40	RAIL1b	PX	.014	.014	0 0
41	RAIL1a	PX	.014	.014	0 0
42	RAIL2c	PX	.014	.014	0 0
43	RAIL2b	PX	.014	.014	0 0
44	RAIL2a	PX	.014	.014	0 0
45	RAIL3c	PX	.008	.008	0 0
46	RAIL3b	PX	.008	.008	0 0
47	RAIL3a	PX	.008	.008	0 0
48	PLATE3	PX	.001	.001	0 0
49	PLATE2	PX	.001	.001	0 0
50	PLATE1	PX	.001	.001	0 0
51	MP GAMMA4	PX	.009	.009	0 0
52	MP GAMMA3	PX	.009	.009	0 0
53	MP GAMMA2	PX	.009	.009	0 0
54	MP GAMMA1	PX	.009	.009	0 0
55	MP BETA4	PX	.009	.009	0 0
56	MP BETA3	PX	.009	.009	0 0
57	MP BETA2	PX	.009	.009	0 0
58	MP BETA1	PX	.009	.009	0 0
59	MP ALPHA4	PX	.009	.009	0 0
60	MP ALPHA3	PX	.009	.009	0 0
61	MP ALPHA2	PX	.009	.009	0 0
62	MP ALPHA1	PX	.009	.009	0 0
63	FACE1	PX	.023	.023	0 0
64	FACE2	PX	.023	.023	0 0
65	FACE3	PX	.013	.013	0 0
66	CORNER	PX	.01	.01	0 0
67	KICKER3	PY	-.004	-.004	0 0
68	KICKER3	PX	.006	.006	0 0
69	KICKER1	PY	-.004	-.004	0 0
70	KICKER1	PX	.006	.006	0 0
71	KICKER2	PY	-.004	-.004	0 0
72	KICKER2	PX	.006	.006	0 0

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

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
1	SUP2	PY	-.01	-.01	0 0
2	SUP1	PY	-.01	-.01	0 0
3	SO3	PY	-.006	-.006	0 0
4	SO2	PY	-.006	-.006	0 0



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

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
5	SO1	PY	-.006	-.006	0 0
6	RAIL3c	PY	-.014	-.014	0 0
7	RAIL3b	PY	-.014	-.014	0 0
8	RAIL3a	PY	-.014	-.014	0 0
9	RAIL2c	PY	-.014	-.014	0 0
10	RAIL2b	PY	-.014	-.014	0 0
11	RAIL2a	PY	-.014	-.014	0 0
12	RAIL1c	PY	-.008	-.008	0 0
13	RAIL1b	PY	-.008	-.008	0 0
14	RAIL1a	PY	-.008	-.008	0 0
15	PLATE3	PY	-.001	-.001	0 0
16	PLATE2	PY	-.001	-.001	0 0
17	PLATE1	PY	-.001	-.001	0 0
18	MP GAMMA4	PY	-.009	-.009	0 0
19	MP GAMMA3	PY	-.009	-.009	0 0
20	MP GAMMA2	PY	-.009	-.009	0 0
21	MP GAMMA1	PY	-.009	-.009	0 0
22	MP BETA4	PY	-.009	-.009	0 0
23	MP BETA3	PY	-.009	-.009	0 0
24	MP BETA2	PY	-.009	-.009	0 0
25	MP BETA1	PY	-.009	-.009	0 0
26	MP ALPHA4	PY	-.009	-.009	0 0
27	MP ALPHA3	PY	-.009	-.009	0 0
28	MP ALPHA2	PY	-.009	-.009	0 0
29	MP ALPHA1	PY	-.009	-.009	0 0
30	FACE3	PY	-.023	-.023	0 0
31	FACE2	PY	-.023	-.023	0 0
32	FACE1	PY	-.013	-.013	0 0
33	CORNER	PY	-.01	-.01	0 0
34	SUP2	PX	.006	.006	0 0
35	SUP1	PX	.006	.006	0 0
36	SO3	PX	.004	.004	0 0
37	SO2	PX	.004	.004	0 0
38	SO1	PX	.004	.004	0 0
39	RAIL3c	PX	.008	.008	0 0
40	RAIL3b	PX	.008	.008	0 0
41	RAIL3a	PX	.008	.008	0 0
42	RAIL2c	PX	.008	.008	0 0
43	RAIL2b	PX	.008	.008	0 0
44	RAIL2a	PX	.008	.008	0 0
45	RAIL1c	PX	.005	.005	0 0
46	RAIL1b	PX	.005	.005	0 0
47	RAIL1a	PX	.005	.005	0 0
48	PLATE3	PX	.00075	.00075	0 0
49	PLATE2	PX	.00075	.00075	0 0
50	PLATE1	PX	.00075	.00075	0 0
51	MP GAMMA4	PX	.005	.005	0 0
52	MP GAMMA3	PX	.005	.005	0 0
53	MP GAMMA2	PX	.005	.005	0 0
54	MP GAMMA1	PX	.005	.005	0 0
55	MP BETA4	PX	.005	.005	0 0
56	MP BETA3	PX	.005	.005	0 0



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

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
57	MP BETA2	PX	.005	.005	0 0
58	MP BETA1	PX	.005	.005	0 0
59	MP ALPHA4	PX	.005	.005	0 0
60	MP ALPHA3	PX	.005	.005	0 0
61	MP ALPHA2	PX	.005	.005	0 0
62	MP ALPHA1	PX	.005	.005	0 0
63	FACE3	PX	.014	.014	0 0
64	FACE2	PX	.014	.014	0 0
65	FACE1	PX	.008	.008	0 0
66	CORNER	PX	.006	.006	0 0
67	KICKER3	PY	-.006	-.006	0 0
68	KICKER3	PX	.004	.004	0 0
69	KICKER1	PY	-.006	-.006	0 0
70	KICKER1	PX	.004	.004	0 0
71	KICKER2	PY	-.006	-.006	0 0
72	KICKER2	PX	.004	.004	0 0

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

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
1	SUP2	PY	-.000692	-.000692	0 0
2	SUP1	PY	-.000692	-.000692	0 0
3	SO3	PY	-.000432	-.000432	0 0
4	SO2	PY	-.000432	-.000432	0 0
5	SO1	PY	-.000432	-.000432	0 0
6	RAIL3c	PY	-.000934	-.000934	0 0
7	RAIL3b	PY	-.000934	-.000934	0 0
8	RAIL3a	PY	-.000934	-.000934	0 0
9	RAIL2c	PY	-.000934	-.000934	0 0
10	RAIL2b	PY	-.000934	-.000934	0 0
11	RAIL2a	PY	-.000934	-.000934	0 0
12	RAIL1c	PY	-.000519	-.000519	0 0
13	RAIL1b	PY	-.000519	-.000519	0 0
14	RAIL1a	PY	-.000519	-.000519	0 0
15	PLATE3	PY	-8.6e-5	-8.6e-5	0 0
16	PLATE2	PY	-8.6e-5	-8.6e-5	0 0
17	PLATE1	PY	-8.6e-5	-8.6e-5	0 0
18	MP GAMMA4	PY	-.000599	-.000599	0 0
19	MP GAMMA3	PY	-.000599	-.000599	0 0
20	MP GAMMA2	PY	-.000599	-.000599	0 0
21	MP GAMMA1	PY	-.000599	-.000599	0 0
22	MP BETA4	PY	-.000599	-.000599	0 0
23	MP BETA3	PY	-.000599	-.000599	0 0
24	MP BETA2	PY	-.000599	-.000599	0 0
25	MP BETA1	PY	-.000599	-.000599	0 0
26	MP ALPHA4	PY	-.000599	-.000599	0 0
27	MP ALPHA3	PY	-.000599	-.000599	0 0
28	MP ALPHA2	PY	-.000599	-.000599	0 0
29	MP ALPHA1	PY	-.000599	-.000599	0 0
30	FACE3	PY	-.002	-.002	0 0
31	FACE2	PY	-.002	-.002	0 0
32	FACE1	PY	-.000865	-.000865	0 0

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

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
33	CORNER	PY	-.000692	-.000692	0 0
34	KICKER3	PY	-.000432	-.000432	0 0
35	KICKER1	PY	-.000432	-.000432	0 0
36	KICKER2	PY	-.000432	-.000432	0 0

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

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
1	SUP2	PY	-.000599	-.000599	0 0
2	SUP1	PY	-.000599	-.000599	0 0
3	SO3	PY	-.000374	-.000374	0 0
4	SO2	PY	-.000374	-.000374	0 0
5	SO1	PY	-.000374	-.000374	0 0
6	RAIL3c	PY	-.000809	-.000809	0 0
7	RAIL3b	PY	-.000809	-.000809	0 0
8	RAIL3a	PY	-.000809	-.000809	0 0
9	RAIL2c	PY	-.000809	-.000809	0 0
10	RAIL2b	PY	-.000809	-.000809	0 0
11	RAIL2a	PY	-.000809	-.000809	0 0
12	RAIL1c	PY	-.000449	-.000449	0 0
13	RAIL1b	PY	-.000449	-.000449	0 0
14	RAIL1a	PY	-.000449	-.000449	0 0
15	PLATE3	PY	-7.5e-5	-7.5e-5	0 0
16	PLATE2	PY	-7.5e-5	-7.5e-5	0 0
17	PLATE1	PY	-7.5e-5	-7.5e-5	0 0
18	MP GAMMA4	PY	-.000519	-.000519	0 0
19	MP GAMMA3	PY	-.000519	-.000519	0 0
20	MP GAMMA2	PY	-.000519	-.000519	0 0
21	MP GAMMA1	PY	-.000519	-.000519	0 0
22	MP BETA4	PY	-.000519	-.000519	0 0
23	MP BETA3	PY	-.000519	-.000519	0 0
24	MP BETA2	PY	-.000519	-.000519	0 0
25	MP BETA1	PY	-.000519	-.000519	0 0
26	MP ALPHA4	PY	-.000519	-.000519	0 0
27	MP ALPHA3	PY	-.000519	-.000519	0 0
28	MP ALPHA2	PY	-.000519	-.000519	0 0
29	MP ALPHA1	PY	-.000519	-.000519	0 0
30	FACE3	PY	-.001	-.001	0 0
31	FACE2	PY	-.001	-.001	0 0
32	FACE1	PY	-.000749	-.000749	0 0
33	CORNER	PY	-.000599	-.000599	0 0
34	SUP2	PX	-.000346	-.000346	0 0
35	SUP1	PX	-.000346	-.000346	0 0
36	SO3	PX	-.000216	-.000216	0 0
37	SO2	PX	-.000216	-.000216	0 0
38	SO1	PX	-.000216	-.000216	0 0
39	RAIL3c	PX	-.000467	-.000467	0 0
40	RAIL3b	PX	-.000467	-.000467	0 0
41	RAIL3a	PX	-.000467	-.000467	0 0
42	RAIL2c	PX	-.000467	-.000467	0 0
43	RAIL2b	PX	-.000467	-.000467	0 0
44	RAIL2a	PX	-.000467	-.000467	0 0

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

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
45	RAIL1c	PX	-.000259	-.000259	0 0
46	RAIL1b	PX	-.000259	-.000259	0 0
47	RAIL1a	PX	-.000259	-.000259	0 0
48	PLATE3	PX	-4.3e-5	-4.3e-5	0 0
49	PLATE2	PX	-4.3e-5	-4.3e-5	0 0
50	PLATE1	PX	-4.3e-5	-4.3e-5	0 0
51	MP GAMMA4	PX	-.0003	-.0003	0 0
52	MP GAMMA3	PX	-.0003	-.0003	0 0
53	MP GAMMA2	PX	-.0003	-.0003	0 0
54	MP GAMMA1	PX	-.0003	-.0003	0 0
55	MP BETA4	PX	-.0003	-.0003	0 0
56	MP BETA3	PX	-.0003	-.0003	0 0
57	MP BETA2	PX	-.0003	-.0003	0 0
58	MP BETA1	PX	-.0003	-.0003	0 0
59	MP ALPHA4	PX	-.0003	-.0003	0 0
60	MP ALPHA3	PX	-.0003	-.0003	0 0
61	MP ALPHA2	PX	-.0003	-.0003	0 0
62	MP ALPHA1	PX	-.0003	-.0003	0 0
63	FACE3	PX	-.000778	-.000778	0 0
64	FACE2	PX	-.000778	-.000778	0 0
65	FACE1	PX	-.000432	-.000432	0 0
66	CORNER	PX	-.000346	-.000346	0 0
67	KICKER3	PY	-.000374	-.000374	0 0
68	KICKER3	PX	-.000216	-.000216	0 0
69	KICKER1	PY	-.000374	-.000374	0 0
70	KICKER1	PX	-.000216	-.000216	0 0
71	KICKER2	PY	-.000374	-.000374	0 0
72	KICKER2	PX	-.000216	-.000216	0 0

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

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
1	SUP2	PY	-.000346	-.000346	0 0
2	SUP1	PY	-.000346	-.000346	0 0
3	SO3	PY	-.000216	-.000216	0 0
4	SO2	PY	-.000216	-.000216	0 0
5	SO1	PY	-.000216	-.000216	0 0
6	RAIL3c	PY	-.000467	-.000467	0 0
7	RAIL3b	PY	-.000467	-.000467	0 0
8	RAIL3a	PY	-.000467	-.000467	0 0
9	RAIL2c	PY	-.000467	-.000467	0 0
10	RAIL2b	PY	-.000467	-.000467	0 0
11	RAIL2a	PY	-.000467	-.000467	0 0
12	RAIL1c	PY	-.000259	-.000259	0 0
13	RAIL1b	PY	-.000259	-.000259	0 0
14	RAIL1a	PY	-.000259	-.000259	0 0
15	PLATE3	PY	-4.3e-5	-4.3e-5	0 0
16	PLATE2	PY	-4.3e-5	-4.3e-5	0 0
17	PLATE1	PY	-4.3e-5	-4.3e-5	0 0
18	MP GAMMA4	PY	-.0003	-.0003	0 0
19	MP GAMMA3	PY	-.0003	-.0003	0 0
20	MP GAMMA2	PY	-.0003	-.0003	0 0



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

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...	End Location[ft,...
21	MP GAMMA1	PY	-.0003	-.0003	0	0
22	MP BETA4	PY	-.0003	-.0003	0	0
23	MP BETA3	PY	-.0003	-.0003	0	0
24	MP BETA2	PY	-.0003	-.0003	0	0
25	MP BETA1	PY	-.0003	-.0003	0	0
26	MP ALPHA4	PY	-.0003	-.0003	0	0
27	MP ALPHA3	PY	-.0003	-.0003	0	0
28	MP ALPHA2	PY	-.0003	-.0003	0	0
29	MP ALPHA1	PY	-.0003	-.0003	0	0
30	FACE3	PY	-.000778	-.000778	0	0
31	FACE2	PY	-.000778	-.000778	0	0
32	FACE1	PY	-.000432	-.000432	0	0
33	CORNER	PY	-.000346	-.000346	0	0
34	SUP2	PX	-.000599	-.000599	0	0
35	SUP1	PX	-.000599	-.000599	0	0
36	SO3	PX	-.000374	-.000374	0	0
37	SO2	PX	-.000374	-.000374	0	0
38	SO1	PX	-.000374	-.000374	0	0
39	RAIL3c	PX	-.000809	-.000809	0	0
40	RAIL3b	PX	-.000809	-.000809	0	0
41	RAIL3a	PX	-.000809	-.000809	0	0
42	RAIL2c	PX	-.000809	-.000809	0	0
43	RAIL2b	PX	-.000809	-.000809	0	0
44	RAIL2a	PX	-.000809	-.000809	0	0
45	RAIL1c	PX	-.000449	-.000449	0	0
46	RAIL1b	PX	-.000449	-.000449	0	0
47	RAIL1a	PX	-.000449	-.000449	0	0
48	PLATE3	PX	-7.5e-5	-7.5e-5	0	0
49	PLATE2	PX	-7.5e-5	-7.5e-5	0	0
50	PLATE1	PX	-7.5e-5	-7.5e-5	0	0
51	MP GAMMA4	PX	-.000519	-.000519	0	0
52	MP GAMMA3	PX	-.000519	-.000519	0	0
53	MP GAMMA2	PX	-.000519	-.000519	0	0
54	MP GAMMA1	PX	-.000519	-.000519	0	0
55	MP BETA4	PX	-.000519	-.000519	0	0
56	MP BETA3	PX	-.000519	-.000519	0	0
57	MP BETA2	PX	-.000519	-.000519	0	0
58	MP BETA1	PX	-.000519	-.000519	0	0
59	MP ALPHA4	PX	-.000519	-.000519	0	0
60	MP ALPHA3	PX	-.000519	-.000519	0	0
61	MP ALPHA2	PX	-.000519	-.000519	0	0
62	MP ALPHA1	PX	-.000519	-.000519	0	0
63	FACE3	PX	-.001	-.001	0	0
64	FACE2	PX	-.001	-.001	0	0
65	FACE1	PX	-.000749	-.000749	0	0
66	CORNER	PX	-.000599	-.000599	0	0
67	KICKER3	PY	-.000216	-.000216	0	0
68	KICKER3	PX	-.000374	-.000374	0	0
69	KICKER1	PY	-.000216	-.000216	0	0
70	KICKER1	PX	-.000374	-.000374	0	0
71	KICKER2	PY	-.000216	-.000216	0	0
72	KICKER2	PX	-.000374	-.000374	0	0

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

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...	End Location[ft,...
1	SUP2	PX	-.000692	-.000692	0	0
2	SUP1	PX	-.000692	-.000692	0	0
3	SO3	PX	-.000432	-.000432	0	0
4	SO2	PX	-.000432	-.000432	0	0
5	SO1	PX	-.000432	-.000432	0	0
6	RAIL3c	PX	-.000934	-.000934	0	0
7	RAIL3b	PX	-.000934	-.000934	0	0
8	RAIL3a	PX	-.000934	-.000934	0	0
9	RAIL1c	PX	-.000934	-.000934	0	0
10	RAIL1b	PX	-.000934	-.000934	0	0
11	RAIL1a	PX	-.000934	-.000934	0	0
12	RAIL2c	PX	-.000519	-.000519	0	0
13	RAIL2b	PX	-.000519	-.000519	0	0
14	RAIL2a	PX	-.000519	-.000519	0	0
15	PLATE3	PX	-8.6e-5	-8.6e-5	0	0
16	PLATE2	PX	-8.6e-5	-8.6e-5	0	0
17	PLATE1	PX	-8.6e-5	-8.6e-5	0	0
18	MP GAMMA4	PX	-.000599	-.000599	0	0
19	MP GAMMA3	PX	-.000599	-.000599	0	0
20	MP GAMMA2	PX	-.000599	-.000599	0	0
21	MP GAMMA1	PX	-.000599	-.000599	0	0
22	MP BETA4	PX	-.000599	-.000599	0	0
23	MP BETA3	PX	-.000599	-.000599	0	0
24	MP BETA2	PX	-.000599	-.000599	0	0
25	MP BETA1	PX	-.000599	-.000599	0	0
26	MP ALPHA4	PX	-.000599	-.000599	0	0
27	MP ALPHA3	PX	-.000599	-.000599	0	0
28	MP ALPHA2	PX	-.000599	-.000599	0	0
29	MP ALPHA1	PX	-.000599	-.000599	0	0
30	FACE3	PX	-.002	-.002	0	0
31	FACE1	PX	-.002	-.002	0	0
32	FACE2	PX	-.000865	-.000865	0	0
33	CORNER	PX	-.000692	-.000692	0	0
34	KICKER3	PX	-.000432	-.000432	0	0
35	KICKER1	PX	-.000432	-.000432	0	0
36	KICKER2	PX	-.000432	-.000432	0	0

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

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...	End Location[ft,...
1	SUP2	PY	.000346	.000346	0	0
2	SUP1	PY	.000346	.000346	0	0
3	SO3	PY	.000216	.000216	0	0
4	SO2	PY	.000216	.000216	0	0
5	SO1	PY	.000216	.000216	0	0
6	RAIL3c	PY	.000467	.000467	0	0
7	RAIL3b	PY	.000467	.000467	0	0
8	RAIL3a	PY	.000467	.000467	0	0
9	RAIL1c	PY	.000467	.000467	0	0
10	RAIL1b	PY	.000467	.000467	0	0
11	RAIL1a	PY	.000467	.000467	0	0
12	RAIL2c	PY	.000259	.000259	0	0



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

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
13	RAIL2b	PY	.000259	.000259	0 0
14	RAIL2a	PY	.000259	.000259	0 0
15	PLATE3	PY	4.3e-5	4.3e-5	0 0
16	PLATE2	PY	4.3e-5	4.3e-5	0 0
17	PLATE1	PY	4.3e-5	4.3e-5	0 0
18	MP GAMMA4	PY	.0003	.0003	0 0
19	MP GAMMA3	PY	.0003	.0003	0 0
20	MP GAMMA2	PY	.0003	.0003	0 0
21	MP GAMMA1	PY	.0003	.0003	0 0
22	MP BETA4	PY	.0003	.0003	0 0
23	MP BETA3	PY	.0003	.0003	0 0
24	MP BETA2	PY	.0003	.0003	0 0
25	MP BETA1	PY	.0003	.0003	0 0
26	MP ALPHA4	PY	.0003	.0003	0 0
27	MP ALPHA3	PY	.0003	.0003	0 0
28	MP ALPHA2	PY	.0003	.0003	0 0
29	MP ALPHA1	PY	.0003	.0003	0 0
30	FACE3	PY	.000778	.000778	0 0
31	FACE1	PY	.000778	.000778	0 0
32	FACE2	PY	.000432	.000432	0 0
33	CORNER	PY	.000346	.000346	0 0
34	SUP2	PX	-.000599	-.000599	0 0
35	SUP1	PX	-.000599	-.000599	0 0
36	SO3	PX	-.000374	-.000374	0 0
37	SO2	PX	-.000374	-.000374	0 0
38	SO1	PX	-.000374	-.000374	0 0
39	RAIL3c	PX	-.000809	-.000809	0 0
40	RAIL3b	PX	-.000809	-.000809	0 0
41	RAIL3a	PX	-.000809	-.000809	0 0
42	RAIL1c	PX	-.000809	-.000809	0 0
43	RAIL1b	PX	-.000809	-.000809	0 0
44	RAIL1a	PX	-.000809	-.000809	0 0
45	RAIL2c	PX	-.000449	-.000449	0 0
46	RAIL2b	PX	-.000449	-.000449	0 0
47	RAIL2a	PX	-.000449	-.000449	0 0
48	PLATE3	PX	-7.5e-5	-7.5e-5	0 0
49	PLATE2	PX	-7.5e-5	-7.5e-5	0 0
50	PLATE1	PX	-7.5e-5	-7.5e-5	0 0
51	MP GAMMA4	PX	-.000519	-.000519	0 0
52	MP GAMMA3	PX	-.000519	-.000519	0 0
53	MP GAMMA2	PX	-.000519	-.000519	0 0
54	MP GAMMA1	PX	-.000519	-.000519	0 0
55	MP BETA4	PX	-.000519	-.000519	0 0
56	MP BETA3	PX	-.000519	-.000519	0 0
57	MP BETA2	PX	-.000519	-.000519	0 0
58	MP BETA1	PX	-.000519	-.000519	0 0
59	MP ALPHA4	PX	-.000519	-.000519	0 0
60	MP ALPHA3	PX	-.000519	-.000519	0 0
61	MP ALPHA2	PX	-.000519	-.000519	0 0
62	MP ALPHA1	PX	-.000519	-.000519	0 0
63	FACE3	PX	-.001	-.001	0 0
64	FACE1	PX	-.001	-.001	0 0

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

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
65	FACE2	PX	-.000749	-.000749	0 0
66	CORNER	PX	-.000599	-.000599	0 0
67	KICKER3	PY	.000216	.000216	0 0
68	KICKER3	PX	-.000374	-.000374	0 0
69	KICKER1	PY	.000216	.000216	0 0
70	KICKER1	PX	-.000374	-.000374	0 0
71	KICKER2	PY	.000216	.000216	0 0
72	KICKER2	PX	-.000374	-.000374	0 0

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

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
1	SUP2	PY	.000599	.000599	0 0
2	SUP1	PY	.000599	.000599	0 0
3	SO3	PY	.000374	.000374	0 0
4	SO2	PY	.000374	.000374	0 0
5	SO1	PY	.000374	.000374	0 0
6	RAIL3c	PY	.000809	.000809	0 0
7	RAIL3b	PY	.000809	.000809	0 0
8	RAIL3a	PY	.000809	.000809	0 0
9	RAIL1c	PY	.000809	.000809	0 0
10	RAIL1b	PY	.000809	.000809	0 0
11	RAIL1a	PY	.000809	.000809	0 0
12	RAIL2c	PY	.000449	.000449	0 0
13	RAIL2b	PY	.000449	.000449	0 0
14	RAIL2a	PY	.000449	.000449	0 0
15	PLATE3	PY	7.5e-5	7.5e-5	0 0
16	PLATE2	PY	7.5e-5	7.5e-5	0 0
17	PLATE1	PY	7.5e-5	7.5e-5	0 0
18	MP GAMMA4	PY	.000519	.000519	0 0
19	MP GAMMA3	PY	.000519	.000519	0 0
20	MP GAMMA2	PY	.000519	.000519	0 0
21	MP GAMMA1	PY	.000519	.000519	0 0
22	MP BETA4	PY	.000519	.000519	0 0
23	MP BETA3	PY	.000519	.000519	0 0
24	MP BETA2	PY	.000519	.000519	0 0
25	MP BETA1	PY	.000519	.000519	0 0
26	MP ALPHA4	PY	.000519	.000519	0 0
27	MP ALPHA3	PY	.000519	.000519	0 0
28	MP ALPHA2	PY	.000519	.000519	0 0
29	MP ALPHA1	PY	.000519	.000519	0 0
30	FACE3	PY	.001	.001	0 0
31	FACE1	PY	.001	.001	0 0
32	FACE2	PY	.000749	.000749	0 0
33	CORNER	PY	.000599	.000599	0 0
34	SUP2	PX	-.000346	-.000346	0 0
35	SUP1	PX	-.000346	-.000346	0 0
36	SO3	PX	-.000216	-.000216	0 0
37	SO2	PX	-.000216	-.000216	0 0
38	SO1	PX	-.000216	-.000216	0 0
39	RAIL3c	PX	-.000467	-.000467	0 0
40	RAIL3b	PX	-.000467	-.000467	0 0

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

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
41	RAIL3a	PX	-.000467	-.000467	0 0
42	RAIL1c	PX	-.000467	-.000467	0 0
43	RAIL1b	PX	-.000467	-.000467	0 0
44	RAIL1a	PX	-.000467	-.000467	0 0
45	RAIL2c	PX	-.000259	-.000259	0 0
46	RAIL2b	PX	-.000259	-.000259	0 0
47	RAIL2a	PX	-.000259	-.000259	0 0
48	PLATE3	PX	-4.3e-5	-4.3e-5	0 0
49	PLATE2	PX	-4.3e-5	-4.3e-5	0 0
50	PLATE1	PX	-4.3e-5	-4.3e-5	0 0
51	MP GAMMA4	PX	-.0003	-.0003	0 0
52	MP GAMMA3	PX	-.0003	-.0003	0 0
53	MP GAMMA2	PX	-.0003	-.0003	0 0
54	MP GAMMA1	PX	-.0003	-.0003	0 0
55	MP BETA4	PX	-.0003	-.0003	0 0
56	MP BETA3	PX	-.0003	-.0003	0 0
57	MP BETA2	PX	-.0003	-.0003	0 0
58	MP BETA1	PX	-.0003	-.0003	0 0
59	MP ALPHA4	PX	-.0003	-.0003	0 0
60	MP ALPHA3	PX	-.0003	-.0003	0 0
61	MP ALPHA2	PX	-.0003	-.0003	0 0
62	MP ALPHA1	PX	-.0003	-.0003	0 0
63	FACE3	PX	-.000778	-.000778	0 0
64	FACE1	PX	-.000778	-.000778	0 0
65	FACE2	PX	-.000432	-.000432	0 0
66	CORNER	PX	-.000346	-.000346	0 0
67	KICKER3	PY	.000374	.000374	0 0
68	KICKER3	PX	-.000216	-.000216	0 0
69	KICKER1	PY	.000374	.000374	0 0
70	KICKER1	PX	-.000216	-.000216	0 0
71	KICKER2	PY	.000374	.000374	0 0
72	KICKER2	PX	-.000216	-.000216	0 0

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

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
1	SUP2	PY	.000692	.000692	0 0
2	SUP1	PY	.000692	.000692	0 0
3	SO3	PY	.000432	.000432	0 0
4	SO2	PY	.000432	.000432	0 0
5	SO1	PY	.000432	.000432	0 0
6	RAIL3c	PY	.000934	.000934	0 0
7	RAIL3b	PY	.000934	.000934	0 0
8	RAIL3a	PY	.000934	.000934	0 0
9	RAIL1c	PY	.000934	.000934	0 0
10	RAIL1b	PY	.000934	.000934	0 0
11	RAIL1a	PY	.000934	.000934	0 0
12	RAIL2c	PY	.000519	.000519	0 0
13	RAIL2b	PY	.000519	.000519	0 0
14	RAIL2a	PY	.000519	.000519	0 0
15	PLATE3	PY	8.6e-5	8.6e-5	0 0
16	PLATE2	PY	8.6e-5	8.6e-5	0 0



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

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
17	PLATE1	PY	8.6e-5	8.6e-5	0 0
18	MP GAMMA4	PY	.000599	.000599	0 0
19	MP GAMMA3	PY	.000599	.000599	0 0
20	MP GAMMA2	PY	.000599	.000599	0 0
21	MP GAMMA1	PY	.000599	.000599	0 0
22	MP BETA4	PY	.000599	.000599	0 0
23	MP BETA3	PY	.000599	.000599	0 0
24	MP BETA2	PY	.000599	.000599	0 0
25	MP BETA1	PY	.000599	.000599	0 0
26	MP ALPHA4	PY	.000599	.000599	0 0
27	MP ALPHA3	PY	.000599	.000599	0 0
28	MP ALPHA2	PY	.000599	.000599	0 0
29	MP ALPHA1	PY	.000599	.000599	0 0
30	FACE3	PY	.002	.002	0 0
31	FACE1	PY	.002	.002	0 0
32	FACE2	PY	.000865	.000865	0 0
33	CORNER	PY	.000692	.000692	0 0
34	KICKER3	PY	.000432	.000432	0 0
35	KICKER1	PY	.000432	.000432	0 0
36	KICKER2	PY	.000432	.000432	0 0

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

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
1	SUP2	PY	.000599	.000599	0 0
2	SUP1	PY	.000599	.000599	0 0
3	SO3	PY	.000374	.000374	0 0
4	SO2	PY	.000374	.000374	0 0
5	SO1	PY	.000374	.000374	0 0
6	RAIL1c	PY	.000809	.000809	0 0
7	RAIL1b	PY	.000809	.000809	0 0
8	RAIL1a	PY	.000809	.000809	0 0
9	RAIL2c	PY	.000809	.000809	0 0
10	RAIL2b	PY	.000809	.000809	0 0
11	RAIL2a	PY	.000809	.000809	0 0
12	RAIL3c	PY	.000449	.000449	0 0
13	RAIL3b	PY	.000449	.000449	0 0
14	RAIL3a	PY	.000449	.000449	0 0
15	PLATE3	PY	7.5e-5	7.5e-5	0 0
16	PLATE2	PY	7.5e-5	7.5e-5	0 0
17	PLATE1	PY	7.5e-5	7.5e-5	0 0
18	MP GAMMA4	PY	.000519	.000519	0 0
19	MP GAMMA3	PY	.000519	.000519	0 0
20	MP GAMMA2	PY	.000519	.000519	0 0
21	MP GAMMA1	PY	.000519	.000519	0 0
22	MP BETA4	PY	.000519	.000519	0 0
23	MP BETA3	PY	.000519	.000519	0 0
24	MP BETA2	PY	.000519	.000519	0 0
25	MP BETA1	PY	.000519	.000519	0 0
26	MP ALPHA4	PY	.000519	.000519	0 0
27	MP ALPHA3	PY	.000519	.000519	0 0
28	MP ALPHA2	PY	.000519	.000519	0 0



Company : POD
 Designer : LT
 Job Number : 20-65646
 Model Name : 806369

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

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
29	MP ALPHA1	PY	.000519	.000519	0 0
30	FACE1	PY	.001	.001	0 0
31	FACE2	PY	.001	.001	0 0
32	FACE3	PY	.000749	.000749	0 0
33	CORNER	PY	.000599	.000599	0 0
34	SUP2	PX	.000346	.000346	0 0
35	SUP1	PX	.000346	.000346	0 0
36	SO3	PX	.000216	.000216	0 0
37	SO2	PX	.000216	.000216	0 0
38	SO1	PX	.000216	.000216	0 0
39	RAIL1c	PX	.000467	.000467	0 0
40	RAIL1b	PX	.000467	.000467	0 0
41	RAIL1a	PX	.000467	.000467	0 0
42	RAIL2c	PX	.000467	.000467	0 0
43	RAIL2b	PX	.000467	.000467	0 0
44	RAIL2a	PX	.000467	.000467	0 0
45	RAIL3c	PX	.000259	.000259	0 0
46	RAIL3b	PX	.000259	.000259	0 0
47	RAIL3a	PX	.000259	.000259	0 0
48	PLATE3	PX	4.3e-5	4.3e-5	0 0
49	PLATE2	PX	4.3e-5	4.3e-5	0 0
50	PLATE1	PX	4.3e-5	4.3e-5	0 0
51	MP GAMMA4	PX	.0003	.0003	0 0
52	MP GAMMA3	PX	.0003	.0003	0 0
53	MP GAMMA2	PX	.0003	.0003	0 0
54	MP GAMMA1	PX	.0003	.0003	0 0
55	MP BETA4	PX	.0003	.0003	0 0
56	MP BETA3	PX	.0003	.0003	0 0
57	MP BETA2	PX	.0003	.0003	0 0
58	MP BETA1	PX	.0003	.0003	0 0
59	MP ALPHA4	PX	.0003	.0003	0 0
60	MP ALPHA3	PX	.0003	.0003	0 0
61	MP ALPHA2	PX	.0003	.0003	0 0
62	MP ALPHA1	PX	.0003	.0003	0 0
63	FACE1	PX	.000778	.000778	0 0
64	FACE2	PX	.000778	.000778	0 0
65	FACE3	PX	.000432	.000432	0 0
66	CORNER	PX	.000346	.000346	0 0
67	KICKER3	PY	.000374	.000374	0 0
68	KICKER3	PX	.000216	.000216	0 0
69	KICKER1	PY	.000374	.000374	0 0
70	KICKER1	PX	.000216	.000216	0 0
71	KICKER2	PY	.000374	.000374	0 0
72	KICKER2	PX	.000216	.000216	0 0

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

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
1	SUP2	PY	.000346	.000346	0 0
2	SUP1	PY	.000346	.000346	0 0
3	SO3	PY	.000216	.000216	0 0
4	SO2	PY	.000216	.000216	0 0



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

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...	End Location[ft,...
5	SO1	PY	.000216	.000216	0	0
6	RAIL1c	PY	.000467	.000467	0	0
7	RAIL1b	PY	.000467	.000467	0	0
8	RAIL1a	PY	.000467	.000467	0	0
9	RAIL2c	PY	.000467	.000467	0	0
10	RAIL2b	PY	.000467	.000467	0	0
11	RAIL2a	PY	.000467	.000467	0	0
12	RAIL3c	PY	.000259	.000259	0	0
13	RAIL3b	PY	.000259	.000259	0	0
14	RAIL3a	PY	.000259	.000259	0	0
15	PLATE3	PY	4.3e-5	4.3e-5	0	0
16	PLATE2	PY	4.3e-5	4.3e-5	0	0
17	PLATE1	PY	4.3e-5	4.3e-5	0	0
18	MP GAMMA4	PY	.0003	.0003	0	0
19	MP GAMMA3	PY	.0003	.0003	0	0
20	MP GAMMA2	PY	.0003	.0003	0	0
21	MP GAMMA1	PY	.0003	.0003	0	0
22	MP BETA4	PY	.0003	.0003	0	0
23	MP BETA3	PY	.0003	.0003	0	0
24	MP BETA2	PY	.0003	.0003	0	0
25	MP BETA1	PY	.0003	.0003	0	0
26	MP ALPHA4	PY	.0003	.0003	0	0
27	MP ALPHA3	PY	.0003	.0003	0	0
28	MP ALPHA2	PY	.0003	.0003	0	0
29	MP ALPHA1	PY	.0003	.0003	0	0
30	FACE1	PY	.000778	.000778	0	0
31	FACE2	PY	.000778	.000778	0	0
32	FACE3	PY	.000432	.000432	0	0
33	CORNER	PY	.000346	.000346	0	0
34	SUP2	PX	.000599	.000599	0	0
35	SUP1	PX	.000599	.000599	0	0
36	SO3	PX	.000374	.000374	0	0
37	SO2	PX	.000374	.000374	0	0
38	SO1	PX	.000374	.000374	0	0
39	RAIL1c	PX	.000809	.000809	0	0
40	RAIL1b	PX	.000809	.000809	0	0
41	RAIL1a	PX	.000809	.000809	0	0
42	RAIL2c	PX	.000809	.000809	0	0
43	RAIL2b	PX	.000809	.000809	0	0
44	RAIL2a	PX	.000809	.000809	0	0
45	RAIL3c	PX	.000449	.000449	0	0
46	RAIL3b	PX	.000449	.000449	0	0
47	RAIL3a	PX	.000449	.000449	0	0
48	PLATE3	PX	7.5e-5	7.5e-5	0	0
49	PLATE2	PX	7.5e-5	7.5e-5	0	0
50	PLATE1	PX	7.5e-5	7.5e-5	0	0
51	MP GAMMA4	PX	.000519	.000519	0	0
52	MP GAMMA3	PX	.000519	.000519	0	0
53	MP GAMMA2	PX	.000519	.000519	0	0
54	MP GAMMA1	PX	.000519	.000519	0	0
55	MP BETA4	PX	.000519	.000519	0	0
56	MP BETA3	PX	.000519	.000519	0	0



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

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
57	MP BETA2	PX	.000519	.000519	0 0
58	MP BETA1	PX	.000519	.000519	0 0
59	MP ALPHA4	PX	.000519	.000519	0 0
60	MP ALPHA3	PX	.000519	.000519	0 0
61	MP ALPHA2	PX	.000519	.000519	0 0
62	MP ALPHA1	PX	.000519	.000519	0 0
63	FACE1	PX	.001	.001	0 0
64	FACE2	PX	.001	.001	0 0
65	FACE3	PX	.000749	.000749	0 0
66	CORNER	PX	.000599	.000599	0 0
67	KICKER3	PY	.000216	.000216	0 0
68	KICKER3	PX	.000374	.000374	0 0
69	KICKER1	PY	.000216	.000216	0 0
70	KICKER1	PX	.000374	.000374	0 0
71	KICKER2	PY	.000216	.000216	0 0
72	KICKER2	PX	.000374	.000374	0 0

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

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
1	SUP2	PX	.000692	.000692	0 0
2	SUP1	PX	.000692	.000692	0 0
3	SO3	PX	.000432	.000432	0 0
4	SO2	PX	.000432	.000432	0 0
5	SO1	PX	.000432	.000432	0 0
6	RAIL1c	PX	.000934	.000934	0 0
7	RAIL1b	PX	.000934	.000934	0 0
8	RAIL1a	PX	.000934	.000934	0 0
9	RAIL2c	PX	.000934	.000934	0 0
10	RAIL2b	PX	.000934	.000934	0 0
11	RAIL2a	PX	.000934	.000934	0 0
12	RAIL3c	PX	.000519	.000519	0 0
13	RAIL3b	PX	.000519	.000519	0 0
14	RAIL3a	PX	.000519	.000519	0 0
15	PLATE3	PX	8.6e-5	8.6e-5	0 0
16	PLATE2	PX	8.6e-5	8.6e-5	0 0
17	PLATE1	PX	8.6e-5	8.6e-5	0 0
18	MP GAMMA4	PX	.000599	.000599	0 0
19	MP GAMMA3	PX	.000599	.000599	0 0
20	MP GAMMA2	PX	.000599	.000599	0 0
21	MP GAMMA1	PX	.000599	.000599	0 0
22	MP BETA4	PX	.000599	.000599	0 0
23	MP BETA3	PX	.000599	.000599	0 0
24	MP BETA2	PX	.000599	.000599	0 0
25	MP BETA1	PX	.000599	.000599	0 0
26	MP ALPHA4	PX	.000599	.000599	0 0
27	MP ALPHA3	PX	.000599	.000599	0 0
28	MP ALPHA2	PX	.000599	.000599	0 0
29	MP ALPHA1	PX	.000599	.000599	0 0
30	FACE1	PX	.002	.002	0 0
31	FACE2	PX	.002	.002	0 0
32	FACE3	PX	.000865	.000865	0 0

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

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
33	CORNER	PX	.000692	.000692	0 0
34	KICKER3	PX	.000432	.000432	0 0
35	KICKER1	PX	.000432	.000432	0 0
36	KICKER2	PX	.000432	.000432	0 0

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

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
1	SUP2	PY	-.000346	-.000346	0 0
2	SUP1	PY	-.000346	-.000346	0 0
3	SO3	PY	-.000216	-.000216	0 0
4	SO2	PY	-.000216	-.000216	0 0
5	SO1	PY	-.000216	-.000216	0 0
6	RAIL1c	PY	-.000467	-.000467	0 0
7	RAIL1b	PY	-.000467	-.000467	0 0
8	RAIL1a	PY	-.000467	-.000467	0 0
9	RAIL2c	PY	-.000467	-.000467	0 0
10	RAIL2b	PY	-.000467	-.000467	0 0
11	RAIL2a	PY	-.000467	-.000467	0 0
12	RAIL3c	PY	-.000259	-.000259	0 0
13	RAIL3b	PY	-.000259	-.000259	0 0
14	RAIL3a	PY	-.000259	-.000259	0 0
15	PLATE3	PY	-4.3e-5	-4.3e-5	0 0
16	PLATE2	PY	-4.3e-5	-4.3e-5	0 0
17	PLATE1	PY	-4.3e-5	-4.3e-5	0 0
18	MP GAMMA4	PY	-.0003	-.0003	0 0
19	MP GAMMA3	PY	-.0003	-.0003	0 0
20	MP GAMMA2	PY	-.0003	-.0003	0 0
21	MP GAMMA1	PY	-.0003	-.0003	0 0
22	MP BETA4	PY	-.0003	-.0003	0 0
23	MP BETA3	PY	-.0003	-.0003	0 0
24	MP BETA2	PY	-.0003	-.0003	0 0
25	MP BETA1	PY	-.0003	-.0003	0 0
26	MP ALPHA4	PY	-.0003	-.0003	0 0
27	MP ALPHA3	PY	-.0003	-.0003	0 0
28	MP ALPHA2	PY	-.0003	-.0003	0 0
29	MP ALPHA1	PY	-.0003	-.0003	0 0
30	FACE1	PY	-.000778	-.000778	0 0
31	FACE2	PY	-.000778	-.000778	0 0
32	FACE3	PY	-.000432	-.000432	0 0
33	CORNER	PY	-.000346	-.000346	0 0
34	SUP2	PX	.000599	.000599	0 0
35	SUP1	PX	.000599	.000599	0 0
36	SO3	PX	.000374	.000374	0 0
37	SO2	PX	.000374	.000374	0 0
38	SO1	PX	.000374	.000374	0 0
39	RAIL1c	PX	.000809	.000809	0 0
40	RAIL1b	PX	.000809	.000809	0 0
41	RAIL1a	PX	.000809	.000809	0 0
42	RAIL2c	PX	.000809	.000809	0 0
43	RAIL2b	PX	.000809	.000809	0 0
44	RAIL2a	PX	.000809	.000809	0 0

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

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
45	RAIL3c	PX	.000449	.000449	0 0
46	RAIL3b	PX	.000449	.000449	0 0
47	RAIL3a	PX	.000449	.000449	0 0
48	PLATE3	PX	7.5e-5	7.5e-5	0 0
49	PLATE2	PX	7.5e-5	7.5e-5	0 0
50	PLATE1	PX	7.5e-5	7.5e-5	0 0
51	MP GAMMA4	PX	.000519	.000519	0 0
52	MP GAMMA3	PX	.000519	.000519	0 0
53	MP GAMMA2	PX	.000519	.000519	0 0
54	MP GAMMA1	PX	.000519	.000519	0 0
55	MP BETA4	PX	.000519	.000519	0 0
56	MP BETA3	PX	.000519	.000519	0 0
57	MP BETA2	PX	.000519	.000519	0 0
58	MP BETA1	PX	.000519	.000519	0 0
59	MP ALPHA4	PX	.000519	.000519	0 0
60	MP ALPHA3	PX	.000519	.000519	0 0
61	MP ALPHA2	PX	.000519	.000519	0 0
62	MP ALPHA1	PX	.000519	.000519	0 0
63	FACE1	PX	.001	.001	0 0
64	FACE2	PX	.001	.001	0 0
65	FACE3	PX	.000749	.000749	0 0
66	CORNER	PX	.000599	.000599	0 0
67	KICKER3	PY	-.000216	-.000216	0 0
68	KICKER3	PX	.000374	.000374	0 0
69	KICKER1	PY	-.000216	-.000216	0 0
70	KICKER1	PX	.000374	.000374	0 0
71	KICKER2	PY	-.000216	-.000216	0 0
72	KICKER2	PX	.000374	.000374	0 0

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

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
1	SUP2	PY	-.000599	-.000599	0 0
2	SUP1	PY	-.000599	-.000599	0 0
3	SO3	PY	-.000374	-.000374	0 0
4	SO2	PY	-.000374	-.000374	0 0
5	SO1	PY	-.000374	-.000374	0 0
6	RAIL3c	PY	-.000809	-.000809	0 0
7	RAIL3b	PY	-.000809	-.000809	0 0
8	RAIL3a	PY	-.000809	-.000809	0 0
9	RAIL2c	PY	-.000809	-.000809	0 0
10	RAIL2b	PY	-.000809	-.000809	0 0
11	RAIL2a	PY	-.000809	-.000809	0 0
12	RAIL1c	PY	-.000449	-.000449	0 0
13	RAIL1b	PY	-.000449	-.000449	0 0
14	RAIL1a	PY	-.000449	-.000449	0 0
15	PLATE3	PY	-7.5e-5	-7.5e-5	0 0
16	PLATE2	PY	-7.5e-5	-7.5e-5	0 0
17	PLATE1	PY	-7.5e-5	-7.5e-5	0 0
18	MP GAMMA4	PY	-.000519	-.000519	0 0
19	MP GAMMA3	PY	-.000519	-.000519	0 0
20	MP GAMMA2	PY	-.000519	-.000519	0 0



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

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
21	MP GAMMA1	PY	-.000519	-.000519	0 0
22	MP BETA4	PY	-.000519	-.000519	0 0
23	MP BETA3	PY	-.000519	-.000519	0 0
24	MP BETA2	PY	-.000519	-.000519	0 0
25	MP BETA1	PY	-.000519	-.000519	0 0
26	MP ALPHA4	PY	-.000519	-.000519	0 0
27	MP ALPHA3	PY	-.000519	-.000519	0 0
28	MP ALPHA2	PY	-.000519	-.000519	0 0
29	MP ALPHA1	PY	-.000519	-.000519	0 0
30	FACE3	PY	-.001	-.001	0 0
31	FACE2	PY	-.001	-.001	0 0
32	FACE1	PY	-.000749	-.000749	0 0
33	CORNER	PY	-.000599	-.000599	0 0
34	SUP2	PX	.000346	.000346	0 0
35	SUP1	PX	.000346	.000346	0 0
36	SO3	PX	.000216	.000216	0 0
37	SO2	PX	.000216	.000216	0 0
38	SO1	PX	.000216	.000216	0 0
39	RAIL3c	PX	.000467	.000467	0 0
40	RAIL3b	PX	.000467	.000467	0 0
41	RAIL3a	PX	.000467	.000467	0 0
42	RAIL2c	PX	.000467	.000467	0 0
43	RAIL2b	PX	.000467	.000467	0 0
44	RAIL2a	PX	.000467	.000467	0 0
45	RAIL1c	PX	.000259	.000259	0 0
46	RAIL1b	PX	.000259	.000259	0 0
47	RAIL1a	PX	.000259	.000259	0 0
48	PLATE3	PX	4.3e-5	4.3e-5	0 0
49	PLATE2	PX	4.3e-5	4.3e-5	0 0
50	PLATE1	PX	4.3e-5	4.3e-5	0 0
51	MP GAMMA4	PX	.0003	.0003	0 0
52	MP GAMMA3	PX	.0003	.0003	0 0
53	MP GAMMA2	PX	.0003	.0003	0 0
54	MP GAMMA1	PX	.0003	.0003	0 0
55	MP BETA4	PX	.0003	.0003	0 0
56	MP BETA3	PX	.0003	.0003	0 0
57	MP BETA2	PX	.0003	.0003	0 0
58	MP BETA1	PX	.0003	.0003	0 0
59	MP ALPHA4	PX	.0003	.0003	0 0
60	MP ALPHA3	PX	.0003	.0003	0 0
61	MP ALPHA2	PX	.0003	.0003	0 0
62	MP ALPHA1	PX	.0003	.0003	0 0
63	FACE3	PX	.000778	.000778	0 0
64	FACE2	PX	.000778	.000778	0 0
65	FACE1	PX	.000432	.000432	0 0
66	CORNER	PX	.000346	.000346	0 0
67	KICKER3	PY	-.000374	-.000374	0 0
68	KICKER3	PX	.000216	.000216	0 0
69	KICKER1	PY	-.000374	-.000374	0 0
70	KICKER1	PX	.000216	.000216	0 0
71	KICKER2	PY	-.000374	-.000374	0 0
72	KICKER2	PX	.000216	.000216	0 0

Member Distributed Loads (BLC 27 : Ice Dead Load)

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
1	SUP2	Z	-.013	-.013	0 0
2	SUP1	Z	-.013	-.013	0 0
3	SO3	Z	-.015	-.015	0 0
4	SO2	Z	-.015	-.015	0 0
5	SO1	Z	-.015	-.015	0 0
6	RAIL3c	Z	-.013	-.013	0 0
7	RAIL3b	Z	-.013	-.013	0 0
8	RAIL3a	Z	-.013	-.013	0 0
9	RAIL2c	Z	-.013	-.013	0 0
10	RAIL2b	Z	-.013	-.013	0 0
11	RAIL2a	Z	-.013	-.013	0 0
12	RAIL1c	Z	-.013	-.013	0 0
13	RAIL1b	Z	-.013	-.013	0 0
14	RAIL1a	Z	-.013	-.013	0 0
15	PLATE3	Z	-.017	-.017	0 0
16	PLATE2	Z	-.017	-.017	0 0
17	PLATE1	Z	-.017	-.017	0 0
18	MP GAMMA4	Z	-.01	-.01	0 0
19	MP GAMMA3	Z	-.01	-.01	0 0
20	MP GAMMA2	Z	-.01	-.01	0 0
21	MP GAMMA1	Z	-.01	-.01	0 0
22	MP BETA4	Z	-.01	-.01	0 0
23	MP BETA3	Z	-.01	-.01	0 0
24	MP BETA2	Z	-.01	-.01	0 0
25	MP BETA1	Z	-.01	-.01	0 0
26	MP ALPHA4	Z	-.01	-.01	0 0
27	MP ALPHA3	Z	-.01	-.01	0 0
28	MP ALPHA2	Z	-.01	-.01	0 0
29	MP ALPHA1	Z	-.01	-.01	0 0
30	FACE3	Z	-.017	-.017	0 0
31	FACE2	Z	-.017	-.017	0 0
32	FACE1	Z	-.017	-.017	0 0
33	CORNER	Z	-.015	-.015	0 0
34	KICKER3	Z	-.015	-.015	0 0
35	KICKER1	Z	-.015	-.015	0 0
36	KICKER2	Z	-.015	-.015	0 0

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

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
1	SUP2	PY	-.004	-.004	0 0
2	SUP1	PY	-.004	-.004	0 0
3	SO3	PY	-.002	-.002	0 0
4	SO2	PY	-.002	-.002	0 0
5	SO1	PY	-.002	-.002	0 0
6	RAIL3c	PY	-.006	-.006	0 0
7	RAIL3b	PY	-.006	-.006	0 0
8	RAIL3a	PY	-.006	-.006	0 0
9	RAIL2c	PY	-.006	-.006	0 0
10	RAIL2b	PY	-.006	-.006	0 0
11	RAIL2a	PY	-.006	-.006	0 0
12	RAIL1c	PY	-.003	-.003	0 0

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

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
13	RAIL1b	PY	-.003	-.003	0 0
14	RAIL1a	PY	-.003	-.003	0 0
15	PLATE3	PY	-.002	-.002	0 0
16	PLATE2	PY	-.002	-.002	0 0
17	PLATE1	PY	-.002	-.002	0 0
18	MP GAMMA4	PY	-.003	-.003	0 0
19	MP GAMMA3	PY	-.003	-.003	0 0
20	MP GAMMA2	PY	-.003	-.003	0 0
21	MP GAMMA1	PY	-.003	-.003	0 0
22	MP BETA4	PY	-.003	-.003	0 0
23	MP BETA3	PY	-.003	-.003	0 0
24	MP BETA2	PY	-.003	-.003	0 0
25	MP BETA1	PY	-.003	-.003	0 0
26	MP ALPHA4	PY	-.003	-.003	0 0
27	MP ALPHA3	PY	-.003	-.003	0 0
28	MP ALPHA2	PY	-.003	-.003	0 0
29	MP ALPHA1	PY	-.003	-.003	0 0
30	FACE3	PY	-.007	-.007	0 0
31	FACE2	PY	-.007	-.007	0 0
32	FACE1	PY	-.004	-.004	0 0
33	CORNER	PY	-.004	-.004	0 0
34	KICKER3	PY	-.002	-.002	0 0
35	KICKER1	PY	-.002	-.002	0 0
36	KICKER2	PY	-.002	-.002	0 0

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

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
1	SUP2	PY	-.003	-.003	0 0
2	SUP1	PY	-.003	-.003	0 0
3	SO3	PY	-.002	-.002	0 0
4	SO2	PY	-.002	-.002	0 0
5	SO1	PY	-.002	-.002	0 0
6	RAIL3c	PY	-.005	-.005	0 0
7	RAIL3b	PY	-.005	-.005	0 0
8	RAIL3a	PY	-.005	-.005	0 0
9	RAIL2c	PY	-.005	-.005	0 0
10	RAIL2b	PY	-.005	-.005	0 0
11	RAIL2a	PY	-.005	-.005	0 0
12	RAIL1c	PY	-.003	-.003	0 0
13	RAIL1b	PY	-.003	-.003	0 0
14	RAIL1a	PY	-.003	-.003	0 0
15	PLATE3	PY	-.002	-.002	0 0
16	PLATE2	PY	-.002	-.002	0 0
17	PLATE1	PY	-.002	-.002	0 0
18	MP GAMMA4	PY	-.003	-.003	0 0
19	MP GAMMA3	PY	-.003	-.003	0 0
20	MP GAMMA2	PY	-.003	-.003	0 0
21	MP GAMMA1	PY	-.003	-.003	0 0
22	MP BETA4	PY	-.003	-.003	0 0
23	MP BETA3	PY	-.003	-.003	0 0
24	MP BETA2	PY	-.003	-.003	0 0



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

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
25	MP BETA1	PY	-.003	-.003	0 0
26	MP ALPHA4	PY	-.003	-.003	0 0
27	MP ALPHA3	PY	-.003	-.003	0 0
28	MP ALPHA2	PY	-.003	-.003	0 0
29	MP ALPHA1	PY	-.003	-.003	0 0
30	FACE3	PY	-.006	-.006	0 0
31	FACE2	PY	-.006	-.006	0 0
32	FACE1	PY	-.004	-.004	0 0
33	CORNER	PY	-.003	-.003	0 0
34	SUP2	PX	-.002	-.002	0 0
35	SUP1	PX	-.002	-.002	0 0
36	SO3	PX	-.001	-.001	0 0
37	SO2	PX	-.001	-.001	0 0
38	SO1	PX	-.001	-.001	0 0
39	RAIL3c	PX	-.003	-.003	0 0
40	RAIL3b	PX	-.003	-.003	0 0
41	RAIL3a	PX	-.003	-.003	0 0
42	RAIL2c	PX	-.003	-.003	0 0
43	RAIL2b	PX	-.003	-.003	0 0
44	RAIL2a	PX	-.003	-.003	0 0
45	RAIL1c	PX	-.002	-.002	0 0
46	RAIL1b	PX	-.002	-.002	0 0
47	RAIL1a	PX	-.002	-.002	0 0
48	PLATE3	PX	-.000944	-.000944	0 0
49	PLATE2	PX	-.000944	-.000944	0 0
50	PLATE1	PX	-.000944	-.000944	0 0
51	MP GAMMA4	PX	-.002	-.002	0 0
52	MP GAMMA3	PX	-.002	-.002	0 0
53	MP GAMMA2	PX	-.002	-.002	0 0
54	MP GAMMA1	PX	-.002	-.002	0 0
55	MP BETA4	PX	-.002	-.002	0 0
56	MP BETA3	PX	-.002	-.002	0 0
57	MP BETA2	PX	-.002	-.002	0 0
58	MP BETA1	PX	-.002	-.002	0 0
59	MP ALPHA4	PX	-.002	-.002	0 0
60	MP ALPHA3	PX	-.002	-.002	0 0
61	MP ALPHA2	PX	-.002	-.002	0 0
62	MP ALPHA1	PX	-.002	-.002	0 0
63	FACE3	PX	-.004	-.004	0 0
64	FACE2	PX	-.004	-.004	0 0
65	FACE1	PX	-.002	-.002	0 0
66	CORNER	PX	-.002	-.002	0 0
67	KICKER3	PY	-.002	-.002	0 0
68	KICKER3	PX	-.001	-.001	0 0
69	KICKER1	PY	-.002	-.002	0 0
70	KICKER1	PX	-.001	-.001	0 0
71	KICKER2	PY	-.002	-.002	0 0
72	KICKER2	PX	-.001	-.001	0 0

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
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Member Distributed Loads (BLC 30 : Ice Wind Load (60)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
1	SUP2	PY	-.002	-.002	0 0
2	SUP1	PY	-.002	-.002	0 0
3	SO3	PY	-.001	-.001	0 0
4	SO2	PY	-.001	-.001	0 0
5	SO1	PY	-.001	-.001	0 0
6	RAIL3c	PY	-.003	-.003	0 0
7	RAIL3b	PY	-.003	-.003	0 0
8	RAIL3a	PY	-.003	-.003	0 0
9	RAIL2c	PY	-.003	-.003	0 0
10	RAIL2b	PY	-.003	-.003	0 0
11	RAIL2a	PY	-.003	-.003	0 0
12	RAIL1c	PY	-.002	-.002	0 0
13	RAIL1b	PY	-.002	-.002	0 0
14	RAIL1a	PY	-.002	-.002	0 0
15	PLATE3	PY	-.000944	-.000944	0 0
16	PLATE2	PY	-.000944	-.000944	0 0
17	PLATE1	PY	-.000944	-.000944	0 0
18	MP GAMMA4	PY	-.002	-.002	0 0
19	MP GAMMA3	PY	-.002	-.002	0 0
20	MP GAMMA2	PY	-.002	-.002	0 0
21	MP GAMMA1	PY	-.002	-.002	0 0
22	MP BETA4	PY	-.002	-.002	0 0
23	MP BETA3	PY	-.002	-.002	0 0
24	MP BETA2	PY	-.002	-.002	0 0
25	MP BETA1	PY	-.002	-.002	0 0
26	MP ALPHA4	PY	-.002	-.002	0 0
27	MP ALPHA3	PY	-.002	-.002	0 0
28	MP ALPHA2	PY	-.002	-.002	0 0
29	MP ALPHA1	PY	-.002	-.002	0 0
30	FACE3	PY	-.004	-.004	0 0
31	FACE2	PY	-.004	-.004	0 0
32	FACE1	PY	-.002	-.002	0 0
33	CORNER	PY	-.002	-.002	0 0
34	SUP2	PX	-.003	-.003	0 0
35	SUP1	PX	-.003	-.003	0 0
36	SO3	PX	-.002	-.002	0 0
37	SO2	PX	-.002	-.002	0 0
38	SO1	PX	-.002	-.002	0 0
39	RAIL3c	PX	-.005	-.005	0 0
40	RAIL3b	PX	-.005	-.005	0 0
41	RAIL3a	PX	-.005	-.005	0 0
42	RAIL2c	PX	-.005	-.005	0 0
43	RAIL2b	PX	-.005	-.005	0 0
44	RAIL2a	PX	-.005	-.005	0 0
45	RAIL1c	PX	-.003	-.003	0 0
46	RAIL1b	PX	-.003	-.003	0 0
47	RAIL1a	PX	-.003	-.003	0 0
48	PLATE3	PX	-.002	-.002	0 0
49	PLATE2	PX	-.002	-.002	0 0
50	PLATE1	PX	-.002	-.002	0 0
51	MP GAMMA4	PX	-.003	-.003	0 0
52	MP GAMMA3	PX	-.003	-.003	0 0

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

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
53	MP GAMMA2	PX	-.003	-.003	0 0
54	MP GAMMA1	PX	-.003	-.003	0 0
55	MP BETA4	PX	-.003	-.003	0 0
56	MP BETA3	PX	-.003	-.003	0 0
57	MP BETA2	PX	-.003	-.003	0 0
58	MP BETA1	PX	-.003	-.003	0 0
59	MP ALPHA4	PX	-.003	-.003	0 0
60	MP ALPHA3	PX	-.003	-.003	0 0
61	MP ALPHA2	PX	-.003	-.003	0 0
62	MP ALPHA1	PX	-.003	-.003	0 0
63	FACE3	PX	-.006	-.006	0 0
64	FACE2	PX	-.006	-.006	0 0
65	FACE1	PX	-.004	-.004	0 0
66	CORNER	PX	-.003	-.003	0 0
67	KICKER3	PY	-.001	-.001	0 0
68	KICKER3	PX	-.002	-.002	0 0
69	KICKER1	PY	-.001	-.001	0 0
70	KICKER1	PX	-.002	-.002	0 0
71	KICKER2	PY	-.001	-.001	0 0
72	KICKER2	PX	-.002	-.002	0 0

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

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
1	SUP2	PX	-.004	-.004	0 0
2	SUP1	PX	-.004	-.004	0 0
3	SO3	PX	-.002	-.002	0 0
4	SO2	PX	-.002	-.002	0 0
5	SO1	PX	-.002	-.002	0 0
6	RAIL3c	PX	-.006	-.006	0 0
7	RAIL3b	PX	-.006	-.006	0 0
8	RAIL3a	PX	-.006	-.006	0 0
9	RAIL1c	PX	-.006	-.006	0 0
10	RAIL1b	PX	-.006	-.006	0 0
11	RAIL1a	PX	-.006	-.006	0 0
12	RAIL2c	PX	-.003	-.003	0 0
13	RAIL2b	PX	-.003	-.003	0 0
14	RAIL2a	PX	-.003	-.003	0 0
15	PLATE3	PX	-.002	-.002	0 0
16	PLATE2	PX	-.002	-.002	0 0
17	PLATE1	PX	-.002	-.002	0 0
18	MP GAMMA4	PX	-.003	-.003	0 0
19	MP GAMMA3	PX	-.003	-.003	0 0
20	MP GAMMA2	PX	-.003	-.003	0 0
21	MP GAMMA1	PX	-.003	-.003	0 0
22	MP BETA4	PX	-.003	-.003	0 0
23	MP BETA3	PX	-.003	-.003	0 0
24	MP BETA2	PX	-.003	-.003	0 0
25	MP BETA1	PX	-.003	-.003	0 0
26	MP ALPHA4	PX	-.003	-.003	0 0
27	MP ALPHA3	PX	-.003	-.003	0 0
28	MP ALPHA2	PX	-.003	-.003	0 0

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

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
29	MP ALPHA1	PX	-.003	-.003	0 0
30	FACE3	PX	-.007	-.007	0 0
31	FACE1	PX	-.007	-.007	0 0
32	FACE2	PX	-.004	-.004	0 0
33	CORNER	PX	-.004	-.004	0 0
34	KICKER3	PX	-.002	-.002	0 0
35	KICKER1	PX	-.002	-.002	0 0
36	KICKER2	PX	-.002	-.002	0 0

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

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
1	SUP2	PY	.002	.002	0 0
2	SUP1	PY	.002	.002	0 0
3	SO3	PY	.001	.001	0 0
4	SO2	PY	.001	.001	0 0
5	SO1	PY	.001	.001	0 0
6	RAIL3c	PY	.003	.003	0 0
7	RAIL3b	PY	.003	.003	0 0
8	RAIL3a	PY	.003	.003	0 0
9	RAIL1c	PY	.003	.003	0 0
10	RAIL1b	PY	.003	.003	0 0
11	RAIL1a	PY	.003	.003	0 0
12	RAIL2c	PY	.002	.002	0 0
13	RAIL2b	PY	.002	.002	0 0
14	RAIL2a	PY	.002	.002	0 0
15	PLATE3	PY	.000944	.000944	0 0
16	PLATE2	PY	.000944	.000944	0 0
17	PLATE1	PY	.000944	.000944	0 0
18	MP GAMMA4	PY	.002	.002	0 0
19	MP GAMMA3	PY	.002	.002	0 0
20	MP GAMMA2	PY	.002	.002	0 0
21	MP GAMMA1	PY	.002	.002	0 0
22	MP BETA4	PY	.002	.002	0 0
23	MP BETA3	PY	.002	.002	0 0
24	MP BETA2	PY	.002	.002	0 0
25	MP BETA1	PY	.002	.002	0 0
26	MP ALPHA4	PY	.002	.002	0 0
27	MP ALPHA3	PY	.002	.002	0 0
28	MP ALPHA2	PY	.002	.002	0 0
29	MP ALPHA1	PY	.002	.002	0 0
30	FACE3	PY	.004	.004	0 0
31	FACE1	PY	.004	.004	0 0
32	FACE2	PY	.002	.002	0 0
33	CORNER	PY	.002	.002	0 0
34	SUP2	PX	-.003	-.003	0 0
35	SUP1	PX	-.003	-.003	0 0
36	SO3	PX	-.002	-.002	0 0
37	SO2	PX	-.002	-.002	0 0
38	SO1	PX	-.002	-.002	0 0
39	RAIL3c	PX	-.005	-.005	0 0
40	RAIL3b	PX	-.005	-.005	0 0

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

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
41	RAIL3a	PX	-.005	-.005	0 0
42	RAIL1c	PX	-.005	-.005	0 0
43	RAIL1b	PX	-.005	-.005	0 0
44	RAIL1a	PX	-.005	-.005	0 0
45	RAIL2c	PX	-.003	-.003	0 0
46	RAIL2b	PX	-.003	-.003	0 0
47	RAIL2a	PX	-.003	-.003	0 0
48	PLATE3	PX	-.002	-.002	0 0
49	PLATE2	PX	-.002	-.002	0 0
50	PLATE1	PX	-.002	-.002	0 0
51	MP GAMMA4	PX	-.003	-.003	0 0
52	MP GAMMA3	PX	-.003	-.003	0 0
53	MP GAMMA2	PX	-.003	-.003	0 0
54	MP GAMMA1	PX	-.003	-.003	0 0
55	MP BETA4	PX	-.003	-.003	0 0
56	MP BETA3	PX	-.003	-.003	0 0
57	MP BETA2	PX	-.003	-.003	0 0
58	MP BETA1	PX	-.003	-.003	0 0
59	MP ALPHA4	PX	-.003	-.003	0 0
60	MP ALPHA3	PX	-.003	-.003	0 0
61	MP ALPHA2	PX	-.003	-.003	0 0
62	MP ALPHA1	PX	-.003	-.003	0 0
63	FACE3	PX	-.006	-.006	0 0
64	FACE1	PX	-.006	-.006	0 0
65	FACE2	PX	-.004	-.004	0 0
66	CORNER	PX	-.003	-.003	0 0
67	KICKER3	PY	.001	.001	0 0
68	KICKER3	PX	-.002	-.002	0 0
69	KICKER1	PY	.001	.001	0 0
70	KICKER1	PX	-.002	-.002	0 0
71	KICKER2	PY	.001	.001	0 0
72	KICKER2	PX	-.002	-.002	0 0

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

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
1	SUP2	PY	.003	.003	0 0
2	SUP1	PY	.003	.003	0 0
3	SO3	PY	.002	.002	0 0
4	SO2	PY	.002	.002	0 0
5	SO1	PY	.002	.002	0 0
6	RAIL3c	PY	.005	.005	0 0
7	RAIL3b	PY	.005	.005	0 0
8	RAIL3a	PY	.005	.005	0 0
9	RAIL1c	PY	.005	.005	0 0
10	RAIL1b	PY	.005	.005	0 0
11	RAIL1a	PY	.005	.005	0 0
12	RAIL2c	PY	.003	.003	0 0
13	RAIL2b	PY	.003	.003	0 0
14	RAIL2a	PY	.003	.003	0 0
15	PLATE3	PY	.002	.002	0 0
16	PLATE2	PY	.002	.002	0 0

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

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
17	PLATE1	PY	.002	.002	0 0
18	MP GAMMA4	PY	.003	.003	0 0
19	MP GAMMA3	PY	.003	.003	0 0
20	MP GAMMA2	PY	.003	.003	0 0
21	MP GAMMA1	PY	.003	.003	0 0
22	MP BETA4	PY	.003	.003	0 0
23	MP BETA3	PY	.003	.003	0 0
24	MP BETA2	PY	.003	.003	0 0
25	MP BETA1	PY	.003	.003	0 0
26	MP ALPHA4	PY	.003	.003	0 0
27	MP ALPHA3	PY	.003	.003	0 0
28	MP ALPHA2	PY	.003	.003	0 0
29	MP ALPHA1	PY	.003	.003	0 0
30	FACE3	PY	.006	.006	0 0
31	FACE1	PY	.006	.006	0 0
32	FACE2	PY	.004	.004	0 0
33	CORNER	PY	.003	.003	0 0
34	SUP2	PX	-.002	-.002	0 0
35	SUP1	PX	-.002	-.002	0 0
36	SO3	PX	-.001	-.001	0 0
37	SO2	PX	-.001	-.001	0 0
38	SO1	PX	-.001	-.001	0 0
39	RAIL3c	PX	-.003	-.003	0 0
40	RAIL3b	PX	-.003	-.003	0 0
41	RAIL3a	PX	-.003	-.003	0 0
42	RAIL1c	PX	-.003	-.003	0 0
43	RAIL1b	PX	-.003	-.003	0 0
44	RAIL1a	PX	-.003	-.003	0 0
45	RAIL2c	PX	-.002	-.002	0 0
46	RAIL2b	PX	-.002	-.002	0 0
47	RAIL2a	PX	-.002	-.002	0 0
48	PLATE3	PX	-.000944	-.000944	0 0
49	PLATE2	PX	-.000944	-.000944	0 0
50	PLATE1	PX	-.000944	-.000944	0 0
51	MP GAMMA4	PX	-.002	-.002	0 0
52	MP GAMMA3	PX	-.002	-.002	0 0
53	MP GAMMA2	PX	-.002	-.002	0 0
54	MP GAMMA1	PX	-.002	-.002	0 0
55	MP BETA4	PX	-.002	-.002	0 0
56	MP BETA3	PX	-.002	-.002	0 0
57	MP BETA2	PX	-.002	-.002	0 0
58	MP BETA1	PX	-.002	-.002	0 0
59	MP ALPHA4	PX	-.002	-.002	0 0
60	MP ALPHA3	PX	-.002	-.002	0 0
61	MP ALPHA2	PX	-.002	-.002	0 0
62	MP ALPHA1	PX	-.002	-.002	0 0
63	FACE3	PX	-.004	-.004	0 0
64	FACE1	PX	-.004	-.004	0 0
65	FACE2	PX	-.002	-.002	0 0
66	CORNER	PX	-.002	-.002	0 0
67	KICKER3	PY	.002	.002	0 0
68	KICKER3	PX	-.001	-.001	0 0



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 Designer : LT
 Job Number : 20-65646
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Member Distributed Loads (BLC 33 : Ice Wind Load (150)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
69	KICKER1	PY	.002	.002	0 0
70	KICKER1	PX	-.001	-.001	0 0
71	KICKER2	PY	.002	.002	0 0
72	KICKER2	PX	-.001	-.001	0 0

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

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
1	SUP2	PY	.004	.004	0 0
2	SUP1	PY	.004	.004	0 0
3	SO3	PY	.002	.002	0 0
4	SO2	PY	.002	.002	0 0
5	SO1	PY	.002	.002	0 0
6	RAIL3c	PY	.006	.006	0 0
7	RAIL3b	PY	.006	.006	0 0
8	RAIL3a	PY	.006	.006	0 0
9	RAIL1c	PY	.006	.006	0 0
10	RAIL1b	PY	.006	.006	0 0
11	RAIL1a	PY	.006	.006	0 0
12	RAIL2c	PY	.003	.003	0 0
13	RAIL2b	PY	.003	.003	0 0
14	RAIL2a	PY	.003	.003	0 0
15	PLATE3	PY	.002	.002	0 0
16	PLATE2	PY	.002	.002	0 0
17	PLATE1	PY	.002	.002	0 0
18	MP GAMMA4	PY	.003	.003	0 0
19	MP GAMMA3	PY	.003	.003	0 0
20	MP GAMMA2	PY	.003	.003	0 0
21	MP GAMMA1	PY	.003	.003	0 0
22	MP BETA4	PY	.003	.003	0 0
23	MP BETA3	PY	.003	.003	0 0
24	MP BETA2	PY	.003	.003	0 0
25	MP BETA1	PY	.003	.003	0 0
26	MP ALPHA4	PY	.003	.003	0 0
27	MP ALPHA3	PY	.003	.003	0 0
28	MP ALPHA2	PY	.003	.003	0 0
29	MP ALPHA1	PY	.003	.003	0 0
30	FACE3	PY	.007	.007	0 0
31	FACE1	PY	.007	.007	0 0
32	FACE2	PY	.004	.004	0 0
33	CORNER	PY	.004	.004	0 0
34	KICKER3	PY	.002	.002	0 0
35	KICKER1	PY	.002	.002	0 0
36	KICKER2	PY	.002	.002	0 0

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

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
1	SUP2	PY	.003	.003	0 0
2	SUP1	PY	.003	.003	0 0
3	SO3	PY	.002	.002	0 0
4	SO2	PY	.002	.002	0 0
5	SO1	PY	.002	.002	0 0



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

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
6	RAIL1c	PY	.005	.005	0 0
7	RAIL1b	PY	.005	.005	0 0
8	RAIL1a	PY	.005	.005	0 0
9	RAIL2c	PY	.005	.005	0 0
10	RAIL2b	PY	.005	.005	0 0
11	RAIL2a	PY	.005	.005	0 0
12	RAIL3c	PY	.003	.003	0 0
13	RAIL3b	PY	.003	.003	0 0
14	RAIL3a	PY	.003	.003	0 0
15	PLATE3	PY	.002	.002	0 0
16	PLATE2	PY	.002	.002	0 0
17	PLATE1	PY	.002	.002	0 0
18	MP GAMMA4	PY	.003	.003	0 0
19	MP GAMMA3	PY	.003	.003	0 0
20	MP GAMMA2	PY	.003	.003	0 0
21	MP GAMMA1	PY	.003	.003	0 0
22	MP BETA4	PY	.003	.003	0 0
23	MP BETA3	PY	.003	.003	0 0
24	MP BETA2	PY	.003	.003	0 0
25	MP BETA1	PY	.003	.003	0 0
26	MP ALPHA4	PY	.003	.003	0 0
27	MP ALPHA3	PY	.003	.003	0 0
28	MP ALPHA2	PY	.003	.003	0 0
29	MP ALPHA1	PY	.003	.003	0 0
30	FACE1	PY	.006	.006	0 0
31	FACE2	PY	.006	.006	0 0
32	FACE3	PY	.004	.004	0 0
33	CORNER	PY	.003	.003	0 0
34	SUP2	PX	.002	.002	0 0
35	SUP1	PX	.002	.002	0 0
36	SO3	PX	.001	.001	0 0
37	SO2	PX	.001	.001	0 0
38	SO1	PX	.001	.001	0 0
39	RAIL1c	PX	.003	.003	0 0
40	RAIL1b	PX	.003	.003	0 0
41	RAIL1a	PX	.003	.003	0 0
42	RAIL2c	PX	.003	.003	0 0
43	RAIL2b	PX	.003	.003	0 0
44	RAIL2a	PX	.003	.003	0 0
45	RAIL3c	PX	.002	.002	0 0
46	RAIL3b	PX	.002	.002	0 0
47	RAIL3a	PX	.002	.002	0 0
48	PLATE3	PX	.000944	.000944	0 0
49	PLATE2	PX	.000944	.000944	0 0
50	PLATE1	PX	.000944	.000944	0 0
51	MP GAMMA4	PX	.002	.002	0 0
52	MP GAMMA3	PX	.002	.002	0 0
53	MP GAMMA2	PX	.002	.002	0 0
54	MP GAMMA1	PX	.002	.002	0 0
55	MP BETA4	PX	.002	.002	0 0
56	MP BETA3	PX	.002	.002	0 0
57	MP BETA2	PX	.002	.002	0 0

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

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
58	MP BETA1	PX	.002	.002	0 0
59	MP ALPHA4	PX	.002	.002	0 0
60	MP ALPHA3	PX	.002	.002	0 0
61	MP ALPHA2	PX	.002	.002	0 0
62	MP ALPHA1	PX	.002	.002	0 0
63	FACE1	PX	.004	.004	0 0
64	FACE2	PX	.004	.004	0 0
65	FACE3	PX	.002	.002	0 0
66	CORNER	PX	.002	.002	0 0
67	KICKER3	PY	.002	.002	0 0
68	KICKER3	PX	.001	.001	0 0
69	KICKER1	PY	.002	.002	0 0
70	KICKER1	PX	.001	.001	0 0
71	KICKER2	PY	.002	.002	0 0
72	KICKER2	PX	.001	.001	0 0

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

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
1	SUP2	PY	.002	.002	0 0
2	SUP1	PY	.002	.002	0 0
3	SO3	PY	.001	.001	0 0
4	SO2	PY	.001	.001	0 0
5	SO1	PY	.001	.001	0 0
6	RAIL1c	PY	.003	.003	0 0
7	RAIL1b	PY	.003	.003	0 0
8	RAIL1a	PY	.003	.003	0 0
9	RAIL2c	PY	.003	.003	0 0
10	RAIL2b	PY	.003	.003	0 0
11	RAIL2a	PY	.003	.003	0 0
12	RAIL3c	PY	.002	.002	0 0
13	RAIL3b	PY	.002	.002	0 0
14	RAIL3a	PY	.002	.002	0 0
15	PLATE3	PY	.000944	.000944	0 0
16	PLATE2	PY	.000944	.000944	0 0
17	PLATE1	PY	.000944	.000944	0 0
18	MP GAMMA4	PY	.002	.002	0 0
19	MP GAMMA3	PY	.002	.002	0 0
20	MP GAMMA2	PY	.002	.002	0 0
21	MP GAMMA1	PY	.002	.002	0 0
22	MP BETA4	PY	.002	.002	0 0
23	MP BETA3	PY	.002	.002	0 0
24	MP BETA2	PY	.002	.002	0 0
25	MP BETA1	PY	.002	.002	0 0
26	MP ALPHA4	PY	.002	.002	0 0
27	MP ALPHA3	PY	.002	.002	0 0
28	MP ALPHA2	PY	.002	.002	0 0
29	MP ALPHA1	PY	.002	.002	0 0
30	FACE1	PY	.004	.004	0 0
31	FACE2	PY	.004	.004	0 0
32	FACE3	PY	.002	.002	0 0
33	CORNER	PY	.002	.002	0 0



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

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
34	SUP2	PX	.003	.003	0 0
35	SUP1	PX	.003	.003	0 0
36	SO3	PX	.002	.002	0 0
37	SO2	PX	.002	.002	0 0
38	SO1	PX	.002	.002	0 0
39	RAIL1c	PX	.005	.005	0 0
40	RAIL1b	PX	.005	.005	0 0
41	RAIL1a	PX	.005	.005	0 0
42	RAIL2c	PX	.005	.005	0 0
43	RAIL2b	PX	.005	.005	0 0
44	RAIL2a	PX	.005	.005	0 0
45	RAIL3c	PX	.003	.003	0 0
46	RAIL3b	PX	.003	.003	0 0
47	RAIL3a	PX	.003	.003	0 0
48	PLATE3	PX	.002	.002	0 0
49	PLATE2	PX	.002	.002	0 0
50	PLATE1	PX	.002	.002	0 0
51	MP GAMMA4	PX	.003	.003	0 0
52	MP GAMMA3	PX	.003	.003	0 0
53	MP GAMMA2	PX	.003	.003	0 0
54	MP GAMMA1	PX	.003	.003	0 0
55	MP BETA4	PX	.003	.003	0 0
56	MP BETA3	PX	.003	.003	0 0
57	MP BETA2	PX	.003	.003	0 0
58	MP BETA1	PX	.003	.003	0 0
59	MP ALPHA4	PX	.003	.003	0 0
60	MP ALPHA3	PX	.003	.003	0 0
61	MP ALPHA2	PX	.003	.003	0 0
62	MP ALPHA1	PX	.003	.003	0 0
63	FACE1	PX	.006	.006	0 0
64	FACE2	PX	.006	.006	0 0
65	FACE3	PX	.004	.004	0 0
66	CORNER	PX	.003	.003	0 0
67	KICKER3	PY	.001	.001	0 0
68	KICKER3	PX	.002	.002	0 0
69	KICKER1	PY	.001	.001	0 0
70	KICKER1	PX	.002	.002	0 0
71	KICKER2	PY	.001	.001	0 0
72	KICKER2	PX	.002	.002	0 0

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

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
1	SUP2	PX	.004	.004	0 0
2	SUP1	PX	.004	.004	0 0
3	SO3	PX	.002	.002	0 0
4	SO2	PX	.002	.002	0 0
5	SO1	PX	.002	.002	0 0
6	RAIL1c	PX	.006	.006	0 0
7	RAIL1b	PX	.006	.006	0 0
8	RAIL1a	PX	.006	.006	0 0
9	RAIL2c	PX	.006	.006	0 0

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

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
10	RAIL2b	PX	.006	.006	0 0
11	RAIL2a	PX	.006	.006	0 0
12	RAIL3c	PX	.003	.003	0 0
13	RAIL3b	PX	.003	.003	0 0
14	RAIL3a	PX	.003	.003	0 0
15	PLATE3	PX	.002	.002	0 0
16	PLATE2	PX	.002	.002	0 0
17	PLATE1	PX	.002	.002	0 0
18	MP GAMMA4	PX	.003	.003	0 0
19	MP GAMMA3	PX	.003	.003	0 0
20	MP GAMMA2	PX	.003	.003	0 0
21	MP GAMMA1	PX	.003	.003	0 0
22	MP BETA4	PX	.003	.003	0 0
23	MP BETA3	PX	.003	.003	0 0
24	MP BETA2	PX	.003	.003	0 0
25	MP BETA1	PX	.003	.003	0 0
26	MP ALPHA4	PX	.003	.003	0 0
27	MP ALPHA3	PX	.003	.003	0 0
28	MP ALPHA2	PX	.003	.003	0 0
29	MP ALPHA1	PX	.003	.003	0 0
30	FACE1	PX	.007	.007	0 0
31	FACE2	PX	.007	.007	0 0
32	FACE3	PX	.004	.004	0 0
33	CORNER	PX	.004	.004	0 0
34	KICKER3	PX	.002	.002	0 0
35	KICKER1	PX	.002	.002	0 0
36	KICKER2	PX	.002	.002	0 0

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

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
1	SUP2	PY	-.002	-.002	0 0
2	SUP1	PY	-.002	-.002	0 0
3	SO3	PY	-.001	-.001	0 0
4	SO2	PY	-.001	-.001	0 0
5	SO1	PY	-.001	-.001	0 0
6	RAIL1c	PY	-.003	-.003	0 0
7	RAIL1b	PY	-.003	-.003	0 0
8	RAIL1a	PY	-.003	-.003	0 0
9	RAIL2c	PY	-.003	-.003	0 0
10	RAIL2b	PY	-.003	-.003	0 0
11	RAIL2a	PY	-.003	-.003	0 0
12	RAIL3c	PY	-.002	-.002	0 0
13	RAIL3b	PY	-.002	-.002	0 0
14	RAIL3a	PY	-.002	-.002	0 0
15	PLATE3	PY	-.000944	-.000944	0 0
16	PLATE2	PY	-.000944	-.000944	0 0
17	PLATE1	PY	-.000944	-.000944	0 0
18	MP GAMMA4	PY	-.002	-.002	0 0
19	MP GAMMA3	PY	-.002	-.002	0 0
20	MP GAMMA2	PY	-.002	-.002	0 0
21	MP GAMMA1	PY	-.002	-.002	0 0

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

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
22	MP BETA4	PY	-.002	-.002	0 0
23	MP BETA3	PY	-.002	-.002	0 0
24	MP BETA2	PY	-.002	-.002	0 0
25	MP BETA1	PY	-.002	-.002	0 0
26	MP ALPHA4	PY	-.002	-.002	0 0
27	MP ALPHA3	PY	-.002	-.002	0 0
28	MP ALPHA2	PY	-.002	-.002	0 0
29	MP ALPHA1	PY	-.002	-.002	0 0
30	FACE1	PY	-.004	-.004	0 0
31	FACE2	PY	-.004	-.004	0 0
32	FACE3	PY	-.002	-.002	0 0
33	CORNER	PY	-.002	-.002	0 0
34	SUP2	PX	.003	.003	0 0
35	SUP1	PX	.003	.003	0 0
36	SO3	PX	.002	.002	0 0
37	SO2	PX	.002	.002	0 0
38	SO1	PX	.002	.002	0 0
39	RAIL1c	PX	.005	.005	0 0
40	RAIL1b	PX	.005	.005	0 0
41	RAIL1a	PX	.005	.005	0 0
42	RAIL2c	PX	.005	.005	0 0
43	RAIL2b	PX	.005	.005	0 0
44	RAIL2a	PX	.005	.005	0 0
45	RAIL3c	PX	.003	.003	0 0
46	RAIL3b	PX	.003	.003	0 0
47	RAIL3a	PX	.003	.003	0 0
48	PLATE3	PX	.002	.002	0 0
49	PLATE2	PX	.002	.002	0 0
50	PLATE1	PX	.002	.002	0 0
51	MP GAMMA4	PX	.003	.003	0 0
52	MP GAMMA3	PX	.003	.003	0 0
53	MP GAMMA2	PX	.003	.003	0 0
54	MP GAMMA1	PX	.003	.003	0 0
55	MP BETA4	PX	.003	.003	0 0
56	MP BETA3	PX	.003	.003	0 0
57	MP BETA2	PX	.003	.003	0 0
58	MP BETA1	PX	.003	.003	0 0
59	MP ALPHA4	PX	.003	.003	0 0
60	MP ALPHA3	PX	.003	.003	0 0
61	MP ALPHA2	PX	.003	.003	0 0
62	MP ALPHA1	PX	.003	.003	0 0
63	FACE1	PX	.006	.006	0 0
64	FACE2	PX	.006	.006	0 0
65	FACE3	PX	.004	.004	0 0
66	CORNER	PX	.003	.003	0 0
67	KICKER3	PY	-.001	-.001	0 0
68	KICKER3	PX	.002	.002	0 0
69	KICKER1	PY	-.001	-.001	0 0
70	KICKER1	PX	.002	.002	0 0
71	KICKER2	PY	-.001	-.001	0 0
72	KICKER2	PX	.002	.002	0 0



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

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
1	SUP2	PY	-.003	-.003	0 0
2	SUP1	PY	-.003	-.003	0 0
3	SO3	PY	-.002	-.002	0 0
4	SO2	PY	-.002	-.002	0 0
5	SO1	PY	-.002	-.002	0 0
6	RAIL3c	PY	-.005	-.005	0 0
7	RAIL3b	PY	-.005	-.005	0 0
8	RAIL3a	PY	-.005	-.005	0 0
9	RAIL2c	PY	-.005	-.005	0 0
10	RAIL2b	PY	-.005	-.005	0 0
11	RAIL2a	PY	-.005	-.005	0 0
12	RAIL1c	PY	-.003	-.003	0 0
13	RAIL1b	PY	-.003	-.003	0 0
14	RAIL1a	PY	-.003	-.003	0 0
15	PLATE3	PY	-.002	-.002	0 0
16	PLATE2	PY	-.002	-.002	0 0
17	PLATE1	PY	-.002	-.002	0 0
18	MP GAMMA4	PY	-.003	-.003	0 0
19	MP GAMMA3	PY	-.003	-.003	0 0
20	MP GAMMA2	PY	-.003	-.003	0 0
21	MP GAMMA1	PY	-.003	-.003	0 0
22	MP BETA4	PY	-.003	-.003	0 0
23	MP BETA3	PY	-.003	-.003	0 0
24	MP BETA2	PY	-.003	-.003	0 0
25	MP BETA1	PY	-.003	-.003	0 0
26	MP ALPHA4	PY	-.003	-.003	0 0
27	MP ALPHA3	PY	-.003	-.003	0 0
28	MP ALPHA2	PY	-.003	-.003	0 0
29	MP ALPHA1	PY	-.003	-.003	0 0
30	FACE3	PY	-.006	-.006	0 0
31	FACE2	PY	-.006	-.006	0 0
32	FACE1	PY	-.004	-.004	0 0
33	CORNER	PY	-.003	-.003	0 0
34	SUP2	PX	.002	.002	0 0
35	SUP1	PX	.002	.002	0 0
36	SO3	PX	.001	.001	0 0
37	SO2	PX	.001	.001	0 0
38	SO1	PX	.001	.001	0 0
39	RAIL3c	PX	.003	.003	0 0
40	RAIL3b	PX	.003	.003	0 0
41	RAIL3a	PX	.003	.003	0 0
42	RAIL2c	PX	.003	.003	0 0
43	RAIL2b	PX	.003	.003	0 0
44	RAIL2a	PX	.003	.003	0 0
45	RAIL1c	PX	.002	.002	0 0
46	RAIL1b	PX	.002	.002	0 0
47	RAIL1a	PX	.002	.002	0 0
48	PLATE3	PX	.000944	.000944	0 0
49	PLATE2	PX	.000944	.000944	0 0
50	PLATE1	PX	.000944	.000944	0 0
51	MP GAMMA4	PX	.002	.002	0 0
52	MP GAMMA3	PX	.002	.002	0 0

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

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
53	MP GAMMA2	PX	.002	.002	0 0
54	MP GAMMA1	PX	.002	.002	0 0
55	MP BETA4	PX	.002	.002	0 0
56	MP BETA3	PX	.002	.002	0 0
57	MP BETA2	PX	.002	.002	0 0
58	MP BETA1	PX	.002	.002	0 0
59	MP ALPHA4	PX	.002	.002	0 0
60	MP ALPHA3	PX	.002	.002	0 0
61	MP ALPHA2	PX	.002	.002	0 0
62	MP ALPHA1	PX	.002	.002	0 0
63	FACE3	PX	.004	.004	0 0
64	FACE2	PX	.004	.004	0 0
65	FACE1	PX	.002	.002	0 0
66	CORNER	PX	.002	.002	0 0
67	KICKER3	PY	-.002	-.002	0 0
68	KICKER3	PX	.001	.001	0 0
69	KICKER1	PY	-.002	-.002	0 0
70	KICKER1	PX	.001	.001	0 0
71	KICKER2	PY	-.002	-.002	0 0
72	KICKER2	PX	.001	.001	0 0

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

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
1	SUP1	Z	-.008	-.011	.575 2.876
2	SUP1	Z	-.011	-.013	2.876 5.177
3	FACE3	Z	-.01	-.011	6 9.6
4	FACE2	Z	-.019	-.016	1.2 2.4
5	FACE2	Z	-.016	-.011	2.4 3.6
6	FACE2	Z	-.011	-.004	3.6 4.8
7	CORNER	Z	-.009	-.009	4.355 5.957
8	FACE3	Z	-.0002273	-.002	4.8 6.24
9	FACE3	Z	-.002	-.004	6.24 7.68
10	FACE3	Z	-.004	-.008	7.68 9.12
11	FACE3	Z	-.008	-.006	9.12 10.56
12	FACE3	Z	-.006	-.0002273	10.56 12
13	FACE2	Z	-.003	-.003	.549 1.549
14	SUP2	Z	-.011	-.011	.882 2.809
15	M41	Z	-.042	-.042	0 .225
16	FACE2	Z	-.001	-.013	7.2 8.8
17	FACE2	Z	-.013	-.012	8.8 10.4
18	FACE2	Z	-.012	-.001	10.4 12
19	FACE1	Z	-.002	-.007	0 1.44
20	FACE1	Z	-.007	-.011	1.44 2.88
21	FACE1	Z	-.011	-.015	2.88 4.32
22	FACE1	Z	-.015	-.008	4.32 5.76
23	FACE1	Z	-.008	-.0002225	5.76 7.2
24	SUP2	Z	-.0003193	-.003	0 1.035
25	SUP2	Z	-.003	-.005	1.035 2.071
26	SUP2	Z	-.005	-.01	2.071 3.106
27	SUP2	Z	-.01	-.012	3.106 4.141
28	SUP2	Z	-.012	-.007	4.141 5.177

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

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
29	CORNER	Z	-.007	-.007	.097 1.603
30	FACE3	Z	-.0002591	-.002	0 1.2
31	FACE3	Z	-.002	-.005	1.2 2.4
32	FACE3	Z	-.005	-.008	2.4 3.6
33	FACE3	Z	-.008	-.007	3.6 4.8
34	FACE3	Z	-.007	-.002	4.8 6
35	CORNER	Z	-.005	-.005	4.161 5.161
36	M50	Z	-.03	-.03	0 .225
37	FACE3	Z	-.011	-.011	1.705 3.532
38	FACE1	Z	-.011	-.011	8.468 10.295
39	CORNER	Z	-.011	-.011	1.693 4.264
40	2	Z	-.03	-.03	0 .225
41	FACE1	Z	-.002	-.007	6 7.2
42	FACE1	Z	-.007	-.008	7.2 8.4
43	FACE1	Z	-.008	-.005	8.4 9.6
44	FACE1	Z	-.005	-.002	9.6 10.8
45	FACE1	Z	-.002	-.0002591	10.8 12
46	CORNER	Z	-.005	-.005	.797 1.797

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

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
1	SUP1	Z	-.016	-.021	.575 2.876
2	SUP1	Z	-.021	-.027	2.876 5.177
3	FACE3	Z	-.019	-.021	6 9.6
4	FACE2	Z	-.038	-.032	1.2 2.4
5	FACE2	Z	-.032	-.022	2.4 3.6
6	FACE2	Z	-.022	-.007	3.6 4.8
7	CORNER	Z	-.019	-.019	4.355 5.957
8	FACE3	Z	-.0004533	-.004	4.8 6.24
9	FACE3	Z	-.004	-.008	6.24 7.68
10	FACE3	Z	-.008	-.015	7.68 9.12
11	FACE3	Z	-.015	-.013	9.12 10.56
12	FACE3	Z	-.013	-.0004533	10.56 12
13	FACE2	Z	-.007	-.007	.549 1.549
14	SUP2	Z	-.022	-.022	.882 2.809
15	M41	Z	-.083	-.083	0 .225
16	FACE2	Z	-.003	-.026	7.2 8.8
17	FACE2	Z	-.026	-.024	8.8 10.4
18	FACE2	Z	-.024	-.003	10.4 12
19	FACE1	Z	-.004	-.013	0 1.44
20	FACE1	Z	-.013	-.022	1.44 2.88
21	FACE1	Z	-.022	-.03	2.88 4.32
22	FACE1	Z	-.03	-.017	4.32 5.76
23	FACE1	Z	-.017	-.000445	5.76 7.2
24	SUP2	Z	-.0006408	-.007	0 1.035
25	SUP2	Z	-.007	-.011	1.035 2.071
26	SUP2	Z	-.011	-.02	2.071 3.106
27	SUP2	Z	-.02	-.024	3.106 4.141
28	SUP2	Z	-.024	-.014	4.141 5.177
29	CORNER	Z	-.014	-.014	.096 1.603
30	FACE3	Z	-.0005344	-.003	0 1.2



Company : POD
 Designer : LT
 Job Number : 20-65646
 Model Name : 806369

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

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
31	FACE3	Z	-.003	-.009	1.2 2.4
32	FACE3	Z	-.009	-.016	2.4 3.6
33	FACE3	Z	-.016	-.014	3.6 4.8
34	FACE3	Z	-.014	-.003	4.8 6
35	CORNER	Z	-.01	-.01	4.162 5.162
36	M50	Z	-.06	-.06	0 .225
37	FACE3	Z	-.023	-.023	1.705 3.532
38	FACE1	Z	-.023	-.023	8.468 10.295
39	CORNER	Z	-.021	-.021	1.693 4.264
40	2	Z	-.06	-.06	0 .225
41	FACE1	Z	-.004	-.014	6 7.2
42	FACE1	Z	-.014	-.016	7.2 8.4
43	FACE1	Z	-.016	-.009	8.4 9.6
44	FACE1	Z	-.009	-.003	9.6 10.8
45	FACE1	Z	-.003	-.0005183	10.8 12
46	CORNER	Z	-.01	-.01	.797 1.797

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	N48	max	8.383	9	5.077	8	.285	26	.214	8	.294	26	.823	17
2		min	-2.668	26	-1.814	26	-.629	8	-.139	26	-.452	8	-.86	35
3	N18	max	.552	11	3.344	2	.293	2	.331	2	.069	2	1.598	29
4		min	-.553	29	-9.801	20	-.636	20	-.505	20	-.07	20	-1.608	11
5	N78	max	2.808	14	4.968	33	.28	14	.21	32	.438	32	1.247	5
6		min	-8.518	33	-1.763	14	-.617	32	-.122	14	-.298	14	-1.239	20
7	N167	max	.165	11	9.767	21	5.067	21	1.267	21	.22	11	.469	29
8		min	-.167	29	.386	2	.211	2	.053	2	-.22	29	-.47	11
9	N172	max	-.346	26	-.276	26	5.061	9	.05	26	1.082	9	.249	17
10		min	-8.454	9	-4.864	9	.235	26	-.658	9	.093	26	-.253	35
11	N177	max	8.597	33	-.275	14	5.149	33	.02	14	-.087	14	.346	5
12		min	.42	14	-4.959	33	.268	14	-.655	33	-1.109	33	-.339	23
13	Totals:	max	5.636	11	5.844	2	12.811	9						
14		min	-5.636	29	-6.052	20	4.947	23						

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distribu...	Area(M...	Surface...
1	Live Load	DL					1			
2	Wind Load (0)	DL					33	36		
3	Dead Load	DL			-1.1		33		7	
4	Wind Load (30)	DL					66	72		
5	Wind Load (60)	DL					66	72		
6	Wind Load (90)	DL					33	36		
7	Wind Load (120)	DL					66	72		
8	Wind Load (150)	DL					66	72		
9	Wind Load (180)	DL					33	36		
10	Wind Load (210)	DL					66	72		
11	Wind Load (240)	DL					66	72		
12	Wind Load (270)	DL					33	36		
13	Wind Load (300)	DL					66	72		



Basic Load Cases (Continued)

BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distribu...	Area(M...	Surface...
14 Wind Load (330)	DL					66	72		
15 Maintenance (0)	DL					33	36		
16 Maintenance (30)	DL					66	72		
17 Maintenance (60)	DL					66	72		
18 Maintenance (90)	DL					33	36		
19 Maintenance (120)	DL					66	72		
20 Maintenance (150)	DL					66	72		
21 Maintenance (180)	DL					33	36		
22 Maintenance (210)	DL					66	72		
23 Maintenance (240)	DL					66	72		
24 Maintenance (270)	DL					33	36		
25 Maintenance (300)	DL					66	72		
26 Maintenance (330)	DL					66	72		
27 Ice Dead Load	DL					33	36	7	
28 Ice Wind Load (0)	DL					33	36		
29 Ice Wind Load (30)	DL					66	72		
30 Ice Wind Load (60)	DL					66	72		
31 Ice Wind Load (90)	DL					33	36		
32 Ice Wind Load (120)	DL					66	72		
33 Ice Wind Load (150)	DL					66	72		
34 Ice Wind Load (180)	DL					33	36		
35 Ice Wind Load (210)	DL					66	72		
36 Ice Wind Load (240)	DL					66	72		
37 Ice Wind Load (270)	DL					33	36		
38 Ice Wind Load (300)	DL					66	72		
39 Ice Wind Load (330)	DL					66	72		
40 Earthquake (x-direction)	DL	-.109				33			
41 Earthquake (y-direction)	DL		-.109			33			
42 Earthquake (z-direction)	DL			-.044		33			
43 BLC 3 Transient Area Loads	None						46		
44 BLC 27 Transient Area Loads	None						46		

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(30)	Yes	Y			3	1.2	27	1	29	1												
7 1.2D + 1.5L + 1.0Wi(30)	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(60)	Yes	Y			3	1.2	27	1	30	1												
10 1.2D + 1.5L + 1.0Wi(60)	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(90)	Yes	Y			3	1.2	27	1	31	1												
13 1.2D + 1.5L + 1.0Wi(90)	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(120)	Yes	Y			3	1.2	27	1	32	1												
16 1.2D + 1.5L + 1.0Wi(120)	Yes	Y			3	1.2	1	1.5	19	1												

Load Combinations (Continued)

	Description	Solve	P...	S...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	
17	1.2D + 1.0W(150)	Yes	Y			3	1.2	8	1														
18	1.2D + 1.0Di + 1.0Wi(150)	Yes	Y			3	1.2	27	1	33	1												
19	1.2D + 1.5L + 1.0Wi(150)	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(180)	Yes	Y			3	1.2	27	1	34	1												
22	1.2D + 1.5L + 1.0Wi(180)	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(210)	Yes	Y			3	1.2	27	1	35	1												
25	1.2D + 1.5L + 1.0Wi(210)	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(240)	Yes	Y			3	1.2	27	1	36	1												
28	1.2D + 1.5L + 1.0Wi(240)	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(270)	Yes	Y			3	1.2	27	1	37	1												
31	1.2D + 1.5L + 1.0Wi(270)	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(300)	Yes	Y			3	1.2	27	1	38	1												
34	1.2D + 1.5L + 1.0Wi(300)	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(330)	Yes	Y			3	1.2	27	1	39	1												
37	1.2D + 1.5L + 1.0Wi(330)	Yes	Y			3	1.2	1	1.5	26	1												
38	1.2D + 1.0E(x) + 1.0E(z) + L	Yes	Y			3	1.2	40	1	42	1	1	1										
39	1.2D + 1.0E(y) + 1.0E(z) + L	Yes	Y			3	1.2	41	1	42	1	1	1										
40	1.2D - 1.0E(x) + 1.0E(z) + L	Yes	Y			3	1.2	40	-1	42	1	1	1										
41	1.2D - 1.0E(y) + 1.0E(z) + L	Yes	Y			3	1.2	41	-1	42	1	1	1										

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

Member	Shape	Code Check	Loc[ft]	LC	Shear Check	Loc[ft]	Dir	LC	phi*...	phi*...	phi*...	phi*...	Eqn	
1	FACE3	C5X9	.720	10.75	23	.695	10.75	y	15	6.799	85.5...	1.909	11.8...	H1...
2	FACE1	C5X9	.716	1.125	8	.696	10.75	y	24	6.799	85.5...	1.909	11.4...	H1...
3	RAIL3c	L3X3X4	.715	6.956	21	.053	0	z	32	4.87	46.6...	1.688	2.807	H2-1
4	RAIL1c	L3X3X4	.701	6.693	33	.055	0	z	5	4.87	46.6...	1.688	2.891	H2-1
5	PLATE2	9x0.5	.664	.712	33	.176	.712	y	17	68.2...	145.8	1.519	27.3...	H1...
6	RAIL2c	L3X3X4	.664	6.562	9	.057	12.599	z	8	4.87	46.6...	1.688	2.898	H2-1
7	PLATE3	9x0.5	.661	.712	21	.189	.712	y	5	68.2...	145.8	1.519	26.8...	H1...
8	PLATE1	9x0.5	.657	.712	9	.189	.712	y	23	68.2...	145.8	1.519	25.9...	H1...
9	MP GAMMA1	PIPE 2.5	.590	1	18	.314	1		8	37.7...	50.7...	3.596	3.596	H1...
10	MP ALPHA1	PIPE 2.5	.588	1	30	.310	1		20	37.7...	50.7...	3.596	3.596	H1...
11	MP BETA1	PIPE 2.5	.581	1	6	.250	1		32	37.7...	50.7...	3.596	3.596	H1...
12	MP BETA2	PIPE 2.5	.567	4.063	5	.204	4.063		2	22.3...	50.7...	3.596	3.596	H1...
13	MP GAMMA2	PIPE 2.5	.559	4.063	17	.229	4.063		14	22.3...	50.7...	3.596	3.596	H1...
14	FACE2	C5X9	.554	1.125	17	.754	7.25	z	14	6.799	85.5...	1.909	11.8...	H1...
15	MP ALPHA2	PIPE 2.5	.530	4.063	29	.164	4.063		26	22.3...	50.7...	3.596	3.596	H1...
16	RAIL1a	L3X3X4	.523	7.481	2	.067	0	z	5	4.87	46.6...	1.688	2.854	H2-1
17	MP GAMMA3	PIPE 2.5	.519	1	35	.190	1		6	37.7...	50.7...	3.596	3.596	H1...
18	MP BETA3	PIPE 2.5	.518	1	23	.176	1		30	37.7...	50.7...	3.596	3.596	H1...
19	CORNER	C4X4.5	.517	0	11	.062	1.551	z	11	11.7...	43.4...	1.093	5.457	H1...
20	RAIL3a	L3X3X4	.511	7.481	26	.062	12.599	z	23	4.87	46.6...	1.688	2.84	H2-1
21	MP GAMMA4	PIPE 2.5	.463	1	36	.266	1		8	37.7...	50.7...	3.596	3.596	H1...
22	RAIL2a	L3X3X4	.450	7.481	14	.059	12.599	z	8	4.87	46.6...	1.688	2.87	H2-1



Company : POD
 Designer : LT
 Job Number : 20-65646
 Model Name : 806369

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

Member	Shape	Code Check	Loc[ft]	LC	Shear Check	Loc[ft]	Dir	LC	phi*...	phi*...	phi*...	phi*...	Eqn	
23	MP ALPHA4	PIPE 2.5	.449	1	12	.280	1	20	37.7...	50.7...	3.596	3.596	H1-...	
24	MP BETA4	PIPE 2.5	.447	1	24	.242	1	32	37.7...	50.7...	3.596	3.596	H1-...	
25	MP ALPHA3	PIPE 2.5	.426	1	11	.199	1	18	37.7...	50.7...	3.596	3.596	H1-...	
26	RAIL1b	L3X3X4	.391	1.575	2	.067	0	5	4.87	46.6...	1.688	2.542	H2-1	
27	RAIL3b	L3X3X4	.381	1.575	26	.063	12.599	z	23	4.87	46.6...	1.688	2.534	H2-1
28	RAIL2b	L3X3X4	.366	1.575	14	.061	12.599	z	8	4.87	46.6...	1.688	2.673	H2-1
29	SO3	HSS4X4X4	.280	3.656	21	.114	3.656	z	21	120....	139....	16.1...	16.1...	H1-...
30	SO2	HSS4X4X4	.279	3.656	36	.116	3.656	z	33	120....	139....	16.1...	16.1...	H1-...
31	SO1	HSS4X4X4	.275	3.656	6	.113	3.656	z	9	120....	139....	16.1...	16.1...	H1-...
32	KICKER2	LL2.5x2.5x...	.270	1.753	33	.008	0	5	44.2...	58.32	3.954	2.55	H1-...	
33	KICKER1	LL2.5x2.5x...	.269	1.394	9	.007	0	17	44.2...	58.32	3.954	2.55	H1-...	
34	SUP1	L4X3X4	.268	0	20	.011	5.752	z	20	28.5...	54.7...	1.844	4.83	H2-1
35	SUP2	L4X3X4	.266	5.752	8	.013	0	8	28.5...	54.7...	1.844	4.936	H2-1	
36	KICKER3	LL2.5x2.5x...	.264	1.872	21	.011	0	z	29	44.2...	58.32	3.954	2.55	H1-...

APPENDIX D

Additional Calculations



POD Job # 20-65646
Site Number 806369
Site Name HRT 094 943225

Connection Type Single Shear

RISA 3D Forces
 Axial (Bolts) 0.133 kips
 Shear (Bolts) 0.307 kips
 Axial Force (Member) 0.392 kips

Bolt/Member Information

Member Label	RAIL1a	
# of Bolts	1	
Diameter	0.625	inches
Bolt Grade	A325	
Member Grade	A36	
Threads Included?	Yes	
L_b	0	inches
L_c	1	inches
t	0.25	inches

Shear Capacity	2.2%
Axial Capacity	0.7%
Bearing Capacity	2.4%
Combined Capacity	0.1%

POD Job # 20-65646
Site Number 806369
Site Name HRT 094 943225

Calculations Based on TIA-222-H

Reactions from RISA-3D

Moment 0.981 ft-kip
 Axial 6.508 kips
 Shear 2.083 kips

Bolt Information

Grade A325
 Threads in Shear Plane Included
 Diameter 0.625 in.
 Bolt Spacing 6 in.
 Number of Rods 4

Flange Plate Information

Width 8 in.
 Thickness 0.75 in.
 Grade A36

Standoff Information

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

Bolt Calculations

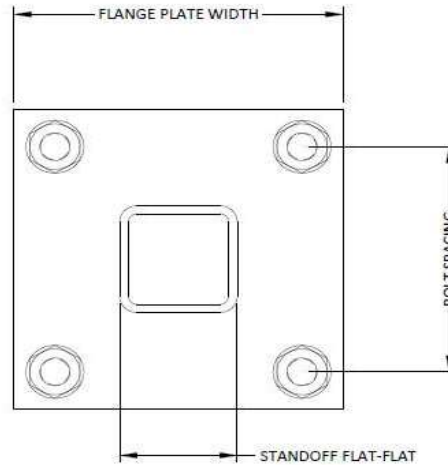
ϕ 0.75
 A_{nt} 0.226 in²
 A_b 0.307 in²
 F_u 120 ksi
 ϕR_{nV} 13.81 kips
 ϕR_{nt} 20.34 kips
 V 0.52 kips
 F 2.61 kips
 Capacity 1.8%

Flange Plate Calculations

ϕ 0.9
 F_y 36 ksi
 t_{min} 0.15 in
 Z 1.1 in³
 ϕM_n 36.5 in-kip
 M_u 5.2 in-kip
 Capacity 14.3%

Capacities

Bolts	1.8%
Flange Plate	14.3%

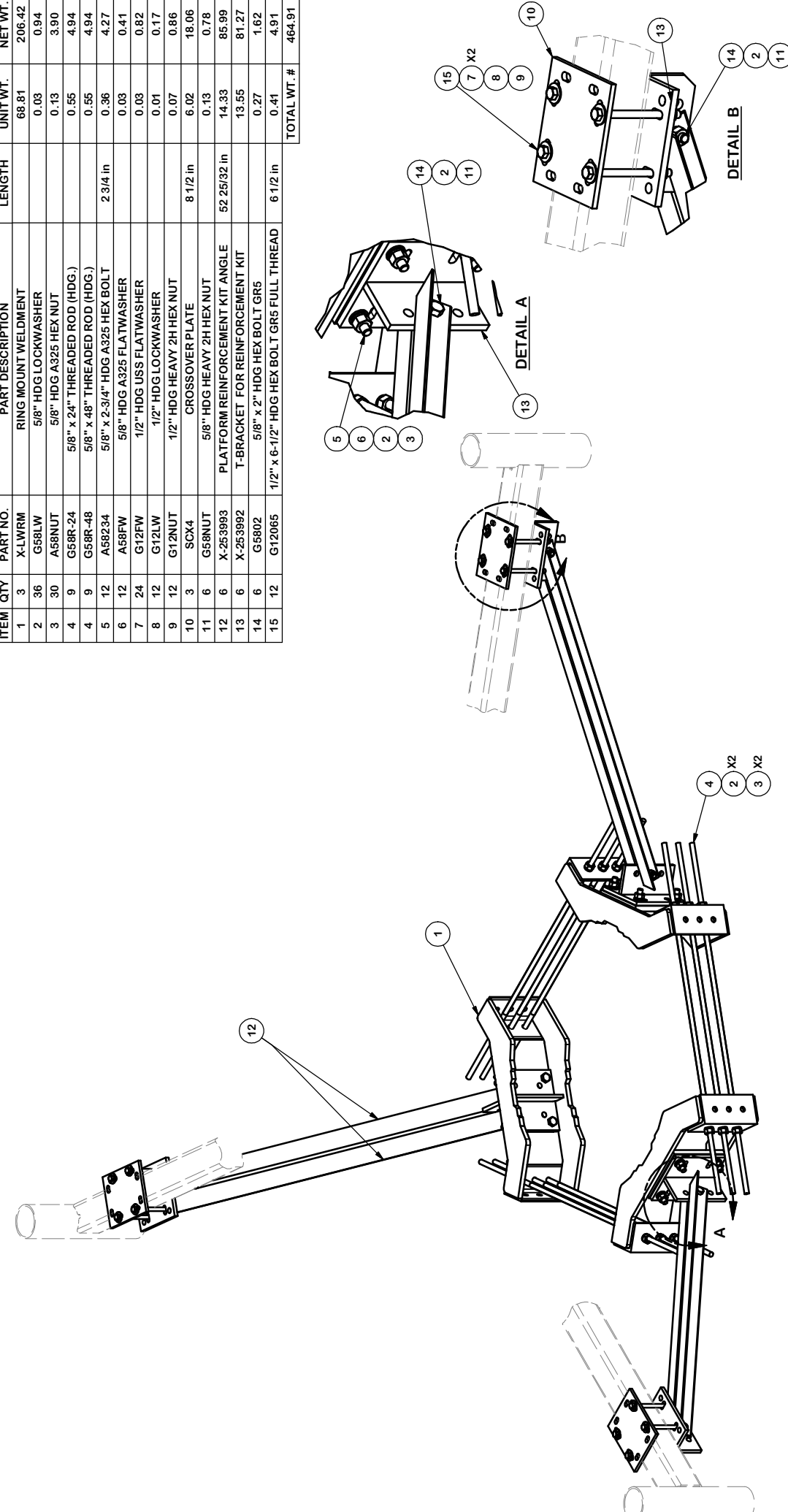


APPENDIX F

Mount Modification Design Drawings

PARTS LIST

ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	3	X-LWRM	RING MOUNT WELDMENT		68.81	206.42
2	36	G58LW	5/8" HDG LOCKWASHER		0.03	0.94
3	30	A58NUT	5/8" HDG A325 HEX NUT		0.13	3.90
4	9	G58R-24	5/8" x 24" THREADED ROD (HDG.)		0.55	4.94
4	9	G58R-48	5/8" x 48" THREADED ROD (HDG.)		0.55	4.94
5	12	A58234	5/8" x 2-3/4" HDG A325 HEX BOLT	2 3/4 in	0.36	4.27
6	12	A58FW	5/8" HDG A325 FLATWASHER		0.03	0.41
7	24	G12FW	1/2" HDG USS FLATWASHER		0.03	0.82
8	12	G12LW	1/2" HDG LOCKWASHER		0.01	0.17
9	12	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	0.86
10	3	SCX4	CROSSOVER PLATE	8 1/2 in	6.02	18.06
11	6	G58NUT	5/8" HDG HEAVY 2H HEX NUT		0.13	0.78
12	6	X-253993	PLATFORM REINFORCEMENT KIT ANGLE	52 25/32 in	14.33	85.99
13	6	X-253992	T-BRACKET FOR REINFORCEMENT KIT		13.55	81.27
14	6	G5802	5/8" x 2" HDG HEX BOLT GR5		0.27	1.62
15	12	G12065	1/2" x 6-1/2" HDG HEX BOLT GR5 FULL THREAD	6 1/2 in	0.41	4.91
					TOTAL WT. #	464.91



TOLERANCE NOTES

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

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

DESCRIPTION
 PLATFORM REINFORCEMENT
 ON A 12" TO 45" POLE
 4' 6" ANGLE

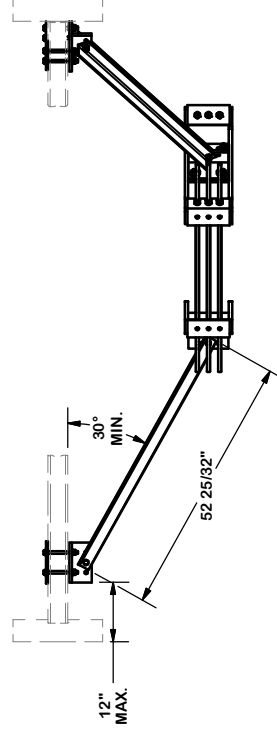
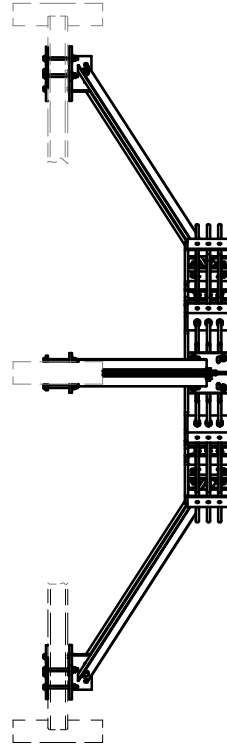
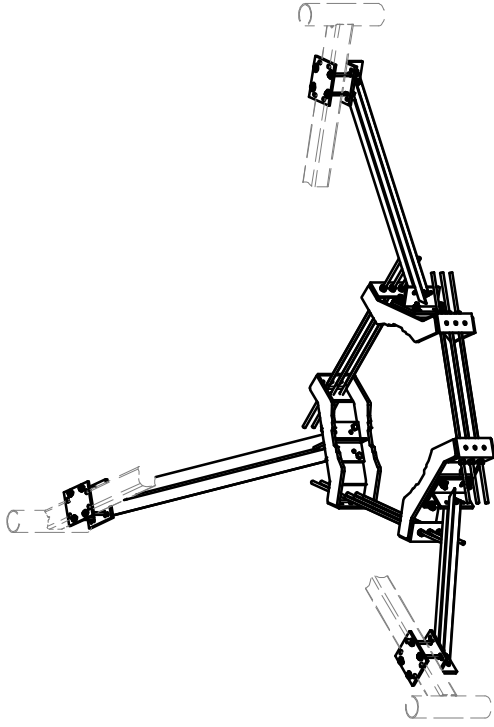
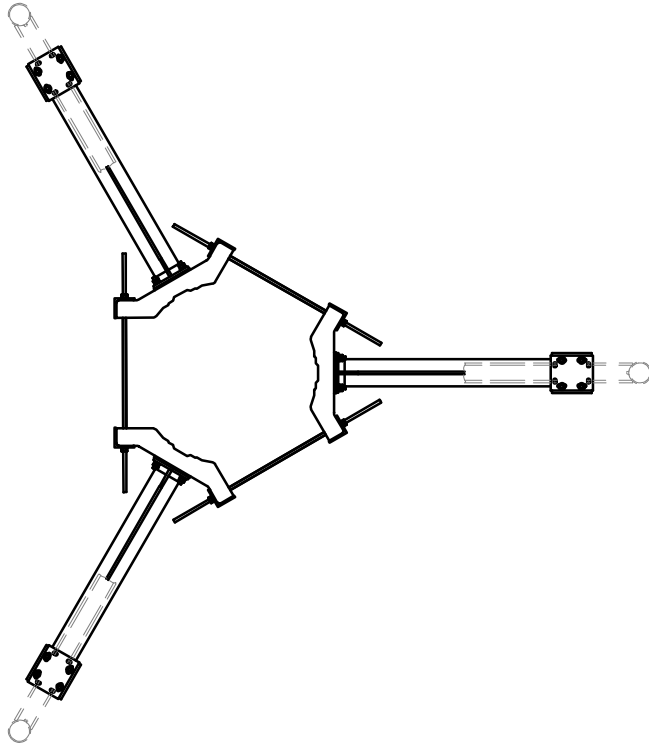
CPD NO.	4488	ENG. APPROVAL	
DRAWN BY	CEK	4/10/2014	
DRAWING USAGE	CUSTOMER	4/10/2014	
CLASS	81	CHECKED BY	BMC
SUB	01	CUSTOMER	4/10/2014



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

Engineering
 Support Team:
 1-888-753-7446

PART NO.	PRK-1245	PAGE	1 OF 2
DWG. NO.	PRK-1245		



TOLERANCE NOTES

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

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

DESCRIPTION
 PLATFORM REINFORCEMENT
 ON A 12" TO 45" POLE
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CPD NO.	DRAWN BY	ENG. APPROVAL
4488	CEK	4/10/2014
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81	01	BMC
	CUSTOMER	4/10/2014



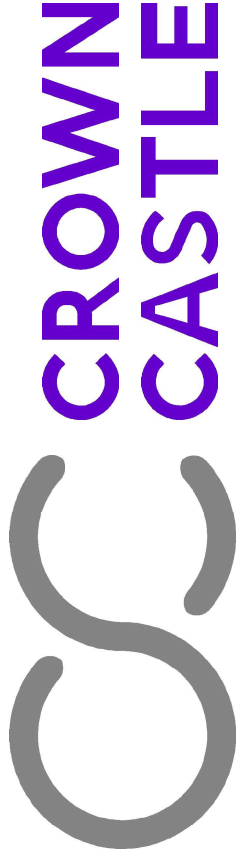
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 New York, NY
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 Los Angeles, CA
 Plymouth, IN
 Houston, TX
 Dallas, TX

Engineering
 Support Team:
 1-888-753-7446

PART NO.	PRK-1245
DWG. NO.	PRK-1245

APPENDIX E

Modification Part Documentation



SITE: 806369 HRT 094 943225 (CT11161D)

MODIFICATION DRAWING FOR AN EXISTING 12.83' PLATFORM W/ SUPPORT RAILS AT 126' ON A 140' MONOPOLE TOWER



CARRIER:



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THE EXPRESS WRITTEN CONSENT OF CROWN
CASTLE.

MODIFICATION DRAWING

REV.	DATE	DESCRIPTION

SITE INFORMATION:
HRT 094 943225 (CT11161D)

439-455 HOMESTEAD AVE.
HARTFORD, CT 06105

SITE NUMBER:
806369

POD NUMBER: 20165846
DRAWN BY: TAJ
CHECKED BY: JGC
DATE: 08/19/2020

SHEET TITLE:

TITLE SHEET

T-01

SCOPE OF WORK:
MOUNT MODIFICATION DRAWINGS INCLUDES: INSTALL PROPOSED RICKER KIT.

PROJECT INFORMATION
COUNTY: HARTFORD
SITE ADDRESS: 439-455 HOMESTEAD AVE. HARTFORD, CT 06105
LATITUDE: 41° 47' 01.1"
LONGITUDE: -72° 42' 13.66"

SHEET INDEX
T-01 TITLE SHEET
N-01 NOTES
S-01 PLAN VIEW
S-02 ELEVATION VIEW
M1-01 MODIFICATION CHECKLIST

STRUCTURAL STEEL NOTES

1. ALL DETAILING, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AISC CODE OF PRACTICE. THE CONTRACTOR SHALL OBTAIN AND BECOME FAMILIAR WITH ALL REFERENCED DOCUMENTS.
2. ALL STRUCTURAL STEEL ELEMENTS SHALL CONFORM TO THE FOLLOWING REQUIREMENTS.

MATERIAL SPECIFICATIONS	
ANGLES	ASTM A36 (8 KI YIELD STRENGTH)
BOLTS	ASTM A325N
NUTS	ASTM A663
WASHER	ASTM A563
PLATE	ASTM A572 (50 KI YIELD STRENGTH)

3. ALL CONNECTIONS NOT FULLY DETAILED ON THESE PLANS SHALL BE DETAILED BY THE FABRICATOR IN ACCORDANCE WITH AISC SPECIFICATIONS, LATEST EDITION.
4. GALVANIZING SHALL BE PROVIDED AROUND PERIMETER OF ANY AND ALL MODIFICATION MEMBERS TO MATCH EXISTING GALVANIZING. GALVANIZING SHALL BE PERMITTED TO BE APPLIED TO EXTERIOR GRADE, PAINTABLE SILICONE GALVANIZING MANUFACTURED BY DOW AND ACCEPTABLE TO EOR.
5. HOLES SHALL NOT BE FLAME CUT THROUGH STEEL UNLESS APPROVED BY THE EOR.
6. ALL EXPOSED STEEL SHALL BE HOT-DIPPED GALVANIZED PER ASTM A153, ASTM A153/A153M, OR ASTM A153/A153M. GALVANIZING SHALL BE PERMITTED TO BE APPLIED TO EXTERIOR GRADE, PAINTABLE SILICONE GALVANIZING WHERE HOT-DIPPED GALVANIZING IS NOT PERMITTED. DABROME F1138 GRADE 3 COATING SHALL BE USED. IN ADDITION, ALL NEW STEEL SHALL BE PAINTED TO MATCH EXISTING TOWER STEEL. CONTRACTOR SHALL OBTAIN EOR APPROVAL FOR STEEL PROTECTION BY ANY OTHER MEANS.
7. ALL DAMAGED, CRACKED, OR WEAR SURFACES SHALL BE REPAIRED WITH 100 COATS OF BRUSH OR ROLL ON ZINC-COLD SOLVENT CLEANED PRIMER TO APPLICATION OF GALVANIZING COMPOUND.
8. ALL BOLT ASSEMBLIES FOR STRUCTURAL MEMBERS REPRESENTED IN THIS DRAWING REQUIRE LOCKING DEVICES (LOCKING NUT/PAL NUT) TO BE INSTALLED IN ACCORDANCE WITH TIA/EIA 4222 REQUIREMENTS.
9. ALL PROPOSED AND/OR REPLACED BOLTS SHALL BE OF SUFFICIENT LENGTHS SUCH THAT THE END OF THE BOLT IS NOT EXPOSED TO WEAR. THE END OF THE BOLT SHALL BE PERMITTED FOR THE BOLT END TO BE BELOW THE FACE OF THE NUT AFTER TIGHTENING IS COMPLETED.

GENERAL NOTES

1. THE MODIFICATIONS REPRESENTED IN THESE DRAWINGS ARE BASED ON THE STRUCTURAL DOCUMENTS REFERENCED HEREIN. THE CONTRACTOR SHALL OBTAIN AND BECOME FAMILIAR WITH ALL REFERENCED DOCUMENTS.

REFERENCE DOCUMENTS	DESIGNATION
PROJECT NUMBER	20-6094
PROJECT DATE	06/11/2020

2. ALL MODIFICATIONS MUST BE INSTALLED TO BRING THE TOWER INTO CONFORMANCE WITH ALL APPLICABLE CODES.
 - GOVERNING CODES: TIA-222-H, 2015 IBC, & 2018 CONNECTICUT BC
 - ULTIMATE WIND SPEED: 125 MPH 3 SECOND GUST
 - WIND SPEED CLASS: 50 MPH 3 SECOND GUST
 - STRUCTURE CLASS: II
 - EXPOSURE CATEGORY: B
 - SPECTRAL RESPONSE ACCELERATIONS: $SS = 0.181 + 51 \times 10^{-6}$
3. ALL WORK PRESENTED ON THESE DRAWINGS MUST BE COMPLETED BY THE CONTRACTOR UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FOR THIS PROJECT. THE CONTRACTOR IS ATTESTING THAT HE HAS SUFFICIENT EXPERIENCE AND ABILITY, THAT HE IS KNOWLEDGEABLE OF THE WORK TO BE PERFORMED AND THAT HE IS PROPERLY LICENSED AND INSURED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FOR THIS PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FOR THIS PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FOR THIS PROJECT.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FOR THIS PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FOR THIS PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FOR THIS PROJECT.
5. ALL DIMENSIONS, ELEVATIONS AND EXISTING CONDITIONS SHOWN ON THE DRAWINGS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING ANY MATERIALS ORDERING, FABRICATION OR CONSTRUCTION WORK ON THIS PROJECT. CONTRACTOR SHALL NOT SCALE CONTRACT DRAWINGS IN LIEU OF FIELD VERIFICATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FOR THIS PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FOR THIS PROJECT.
6. THE DESIGN WITHIN THESE DRAWINGS ASSUMES THE TOWER AND ITS FOUNDATIONS HAVE BEEN WELL MAINTAINED, IN GOOD CONDITION AND ARE WITHOUT DEFECT. BENT MEMBERS, CORRODED MEMBERS, OR MEMBERS WITH UNACCEPTABLE DEFLECTIONS SHALL BE REPAIRED OR REPLACED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FOR THIS PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FOR THIS PROJECT.
7. THE CONTRACTOR SHALL ONLY WORK WITHIN THE LIMITS OF THE TOWER OWNER'S PROPERTY. LEASE OR OTHER AGREEMENTS, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY WORKING CONDITIONS AND BOUNDARIES. THE CONTRACTOR SHALL EMPLOY A SURVEYOR AS REQUIRED. ANY WORK OUTSIDE THESE BOUNDARIES SHALL BE APPROVED IN WRITING BY THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INITIATING, MAINTAINING AND SUPERVISING ALL SAFETY PROGRAMS AND PROCEDURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FOR THIS PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FOR THIS PROJECT.
8. ACCESS TO THE PROPOSED WORK SITE MAY BE RESTRICTED. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER AND/OR ORDERING MATERIALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FOR THIS PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FOR THIS PROJECT.
9. THE CONTRACTOR SHALL SECURE ALL NECESSARY PERMITS FOR THIS PROJECT FROM ALL APPLICABLE GOVERNING AGENCIES. THE CONTRACTOR WILL BE RESPONSIBLE FOR ABIDING BY ALL CONDITIONS AND REQUIREMENTS OF THE PERMITS.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FOR THIS PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FOR THIS PROJECT.
11. UNLESS NOTED OTHERWISE, ALL NEW MEMBERS SHALL MAINTAIN THE EXISTING MEMBER WORKING LIMITS AND NOT INTRODUCE ECCENTRICITIES INTO THE STRUCTURE.
12. THE CONTRACTOR SHALL VERIFY ALL DIMENSION AND QUANTITIES PRIOR TO BIDDING AND/OR ORDERING MATERIALS.
13. ALL MANUFACTURERS' INSTRUCTIONS SHALL BE FOLLOWED EXACTLY. ANY DEVIATION REQUIRES WRITTEN APPROVAL FROM THE EOR.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARILY REMOVING CONE, BRACKETS, ANTENNAS MOUNTS AND ANY OTHER TOWER APPURTENANCES THAT MAY INTERFERE WITH THE INSTALLATION OF THE TOWER AND ANY OTHER TOWER APPURTENANCES MUST BE REPLACED AND/OR RESTORED TO ITS ORIGINAL LOCATION. SOME MOUNTS OR ATTACHMENTS MAY REQUIRE CUSTOM MODIFICATION TO PROPERLY FIT THE TOWER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FOR THIS PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FOR THIS PROJECT.
15. ALL DIMENSIONS REPRESENTED IN THE ABOVE TABLES ARE AISC MINIMUM REQUIREMENTS. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN FIELD AND NOTIFY ENGINEER IF DISTANCES ARE LESS THAN THOSE PROVIDED.
16. THE DIMENSIONS PROVIDED ARE MINIMUM REQUIREMENTS. ACTUAL DIMENSIONS OF PROPOSED MEMBERS WITHIN THESE DRAWINGS MAY VARY FROM THE AISC MINIMUM REQUIREMENT.

WORKABLE GAGES

LEG	2-1/2	1-3/8	----	----	----
G					



BOLT SCHEDULE

BOLT DIAMETER	STANDARD HOLE	SHORT SLOT	MIN. EDGE DISTANCE	SPACING
1/2	9/16	9/16x11/16	7/8	1-1/2
5/8	11/16	11/16x7/8	1-1/8	1-7/8
3/4	13/16	13/16x1	1-1/4	2-1/4
7/8	15/16	15/16x1-1/8	1-1/2	2-5/8
1	1-1/16	1-1/16x1-5/16	1-3/4	3



ALLOWABLE ANGLE COPE



1. ALL DIMENSIONS REPRESENTED IN THE ABOVE TABLES ARE AISC MINIMUM REQUIREMENTS. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN FIELD AND NOTIFY ENGINEER IF DISTANCES ARE LESS THAN THOSE PROVIDED.
2. THE DIMENSIONS PROVIDED ARE MINIMUM REQUIREMENTS. ACTUAL DIMENSIONS OF PROPOSED MEMBERS WITHIN THESE DRAWINGS MAY VARY FROM THE AISC MINIMUM REQUIREMENT.

MODIFICATION DRAWING

REV.	DATE	DESCRIPTION

SITE INFORMATION:
HRT 094 943225 (CT11161D)
439-435 HOMESTEAD AVE.
HARTFORD, CT 06105

SHEET NUMBER:
806369

FOUR NUMBER:
20-6094

DRAWN BY:
TAJ

CHECKED BY:
JCC

DATE:
06/19/2020

SHEET TITLE:
NOTES

N-01

PLANS PREPARED FOR:



CARRIER:



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MODIFICATION DRAWING

REV.	DATE	DESCRIPTION

SITE INFORMATION:
HRT 094 943225 (CT11161D)

439-455 HOMESTEAD AVE.
HARTFORD, CT 06105

SITE NUMBER:
806369

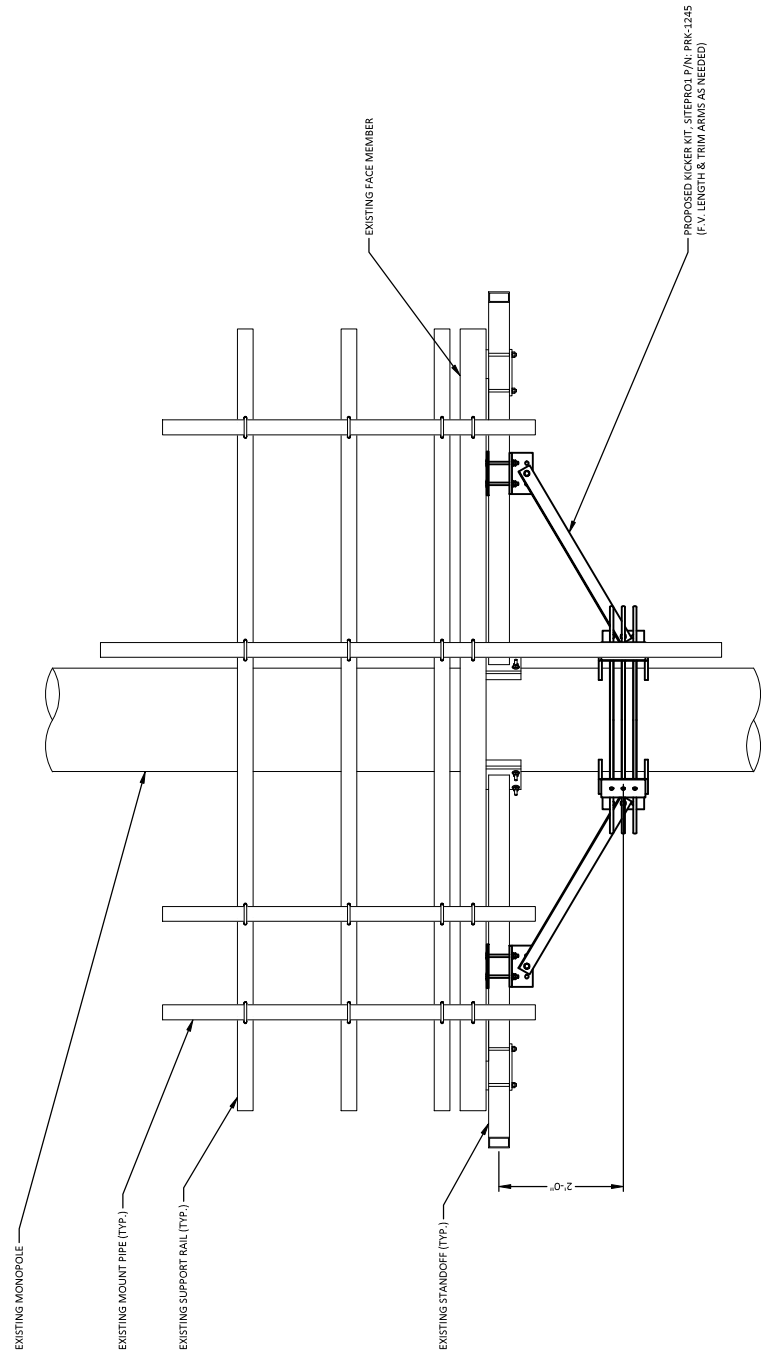
POD NUMBER: 20160646
DRAWN BY: TAJ
CHECKED BY: JGC
DATE: 08/19/2020

SHEET TITLE:

ELEVATION VIEW

S-02

- NOTES:
- INTERNAE & GRATING NOT SHOWN FOR CLARITY
 - ALL FIELD DRILLED HOLES SHALL BE SOLVENT CLEANED AND TOUCHED UP WITH TWO COATS OF ZRC RICH PAINT
 - EXCESS MATERIALS SHALL BE REMOVED AND DISPOSED OFF SITE BY THE CONTRACTOR



ELEVATION VIEW
1/2" = 1'-0"

MODIFICATION INSPECTION CHECKLIST

BEFORE CONSTRUCTION		DURING CONSTRUCTION		AFTER CONSTRUCTION	
CONSTRUCTION/INSTALLATION INSPECTION AND TESTING REQUIRED (COMPLETED BY ENGINEER OF RECORD)	REPORT ITEM	CONSTRUCTION/INSTALLATION INSPECTION AND TESTING REQUIRED (COMPLETED BY ENGINEER OF RECORD)	REPORT ITEM	CONSTRUCTION/INSTALLATION INSPECTION AND TESTING REQUIRED (COMPLETED BY ENGINEER OF RECORD)	REPORT ITEM
X	MODIFICATION INSPECTION CHECKLIST DWG	X	CONSTRUCTION INSPECTION	X	MODIFICATION INSPECTOR REDLINE OR RECORD DRAWINGS
-	ENGINEER OF RECORD APPROVED SHOP DRAWINGS	-	FOUNDATION INSPECTION	-	POST INSTALLED ANCHOR ROD PULL-OUT TESTING
-	FABRICATION INSPECTION	-	CONCRETE COMP. STRENGTH AND SLUMP TEST	X	PHOTOGRAPHS
X	MATERIAL TEST REPORT	-	POST INSTALLED ANCHOR ROD VERIFICATION		ADDITIONAL TESTING AND INSPECTION
-	FABRICATOR NDE INSPECTION	-	BASE PLATE GROUT VERIFICATION		
-	NDE REPORT OF MONOPILE BASEPLATE (AS REQUIRED)	-	THIRD PARTY CERTIFIED WELD INSPECTION		
X	PACKING SLIP	-	EARTHWORK LIFT AND DENSITY (REPORT REQUIRED)		
ADDITIONAL TESTING AND INSPECTION		X	ON SITE COLD GALVANIZING VERIFICATION		
		-	GUY WIRE TENSION REPORT		
		X	GC AS-BUILT DOCUMENTS		
ADDITIONAL TESTING AND INSPECTION					

MODIFICATION INSPECTION NOTES:

GENERAL:

- THE MODIFICATION INSPECTION IS A VISUAL INSPECTION OF TOWER MODIFICATION AND A REVIEW OF CONSTRUCTION INSPECTION AND OTHER DOCUMENTS. THE MODIFICATION INSPECTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL THE CONTRACT DOCUMENTS, NAMELY THE MODIFICATION DRAWINGS, AS DESIGNED BY THE ENGINEER OF RECORD.
- THE MODIFICATION INSPECTION IS TO CONFIRM INSTALLATION CONFIGURATION OF THE TOWER MODIFICATION. THE MODIFICATION INSPECTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL THE CONTRACT DOCUMENTS, NAMELY THE MODIFICATION DESIGN EFFECTIVENESS AND INTENT RESIDES WITH THE ENGINEER OF RECORD AT ALL TIMES.
- TO ENSURE THAT THE REQUIREMENT OF THE MODIFICATION INSPECTION ARE MET, IT IS VITAL THAT THE GENERAL CONTRACTOR (GC) AND THE MODIFICATION INSPECTOR BEGIN COMMUNICATION AND COORDINATING AS SOON AS A PO OR DRAWING IS RECEIVED AND THAT EACH PARTY WILL BE PROACTIVE IN REACHING OUT TO THE OTHER PARTY.

MODIFICATION INSPECTOR:

- THE MODIFICATION INSPECTOR IS REQUIRED TO CONTACT THE GC AS SOON AS RECEIVING A PO OR PAYMENT FOR THE MODIFICATION INSPECTION TO:
- REVIEW THE REQUIREMENT OF THE MODIFICATION INSPECTION CHECKLIST
- WORK WITH THE GC TO DEVELOP A SCHEDULE TO CONDUCT ON-SITE INSPECTIONS
- DISCUSS ANY SITE SPECIFIC INSPECTIONS OR CONCERNS
- THE MODIFICATION INSPECTOR IS RESPONSIBLE FOR COLLECTING ALL GENERAL CONTRACTOR (GC) INSPECTION AND TEST REPORTS, REVIEWING THE DOCUMENTS FOR ADHERENCE TO THE CONTRACT DOCUMENTS, CONDUCTING THE INFIELD INSPECTIONS, AND SUBMITTING THE MODIFICATION INSPECTION REPORT.

GENERAL CONTRACTOR:

- THE GC IS REQUIRED TO CONTACT THE MODIFICATION INSPECTOR AS SOON AS PAYMENT FOR THE MODIFICATION INSTALLATION OR TURNKEY PROJECT IS:

- REVIEW THE REQUIREMENT OF THE MODIFICATION INSPECTION CHECKLIST
 - WORK WITH THE MODIFICATION INSPECTOR TO DEVELOP A SCHEDULE TO CONDUCT ON-SITE MODIFICATION INSPECTIONS, INCLUDING FOUNDATION INSPECTIONS
 - BETTER UNDERSTAND ALL INSPECTION AND TESTING REQUIREMENTS
- THE GC SHALL PERFORM AND RECORD THE TEST AND INSPECTION RESULTS IN ACCORDANCE WITH THE REQUIREMENTS OF THE MODIFICATION INSPECTION CHECKLIST.

RECOMMENDATIONS:

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

CANCELLATION OR DELAYS IN SCHEDULED MODIFICATION INSPECTION:

- IF THE GC AND MODIFICATION INSPECTOR AGREE TO A DATE ON WHICH THE MODIFICATION INSPECTION WILL BE CONDUCTED, THE GC SHALL BE RESPONSIBLE FOR ANY COSTS, FEES, DELAYS OR DEPOSITS AND/OR OTHER PENALTIES RELATE TO THE CANCELLATION OR DELAY INCURRED BY EITHER PARTY FOR ANY TIME. EXCEPTIONS MAY BE MADE IN THE DELAY CANCELLATION IS CAUSED BY WEATHER OR OTHER CONDITIONS THAT MAY COMPROMISE THE SAFETY OF THE PARTIES INVOLVED.

CORRECTION OF FAILING MODIFICATION INSPECTION:

- IF THE MODIFICATION INSTALLATION WOULD FAIL THE MODIFICATION

INSPECTION (FAILED MODIFICATION INSPECTION), THE GC SHALL WORK WITH MODIFICATION INSPECTOR TO COORDINATE A REMEDIATION PLAN IN ONE OF TWO WAYS:


- CORRECT FAILING ISSUES TO COMPLY WITH THE SPECIFICATIONS CONTAINED IN THE ORIGINAL CONTRACT DOCUMENTS AND COORDINATE A SUPPLEMENT MODIFICATION INSPECTION TOWER MARKS REMOVAL. THE GC SHALL BE RESPONSIBLE FOR THE WORK OF BEING RE-INSPECTED AND THE MODIFICATION/REINFORCEMENT USING AS-BUILT CONDITION.

VERIFICATION INSPECTIONS:


- TOWER OWNER RESERVES THE RIGHT TO CONDUCT A VERIFICATION INSPECTION TO VERIFY THE ACCURACY AND COMPLETENESS OF PREVIOUSLY COMPLETED MODIFICATION AND INSPECTIONS) ON TOWER MODIFICATION PRODUCTS.
- VERIFICATION INSPECTION MAY BE CONDUCTED BY AN INDEPENDENT FIRM AFTER A MODIFICATION PROJECT IS COMPLETED. AS MARKED BY THE DATE OF AN ACCEPTED "PASSING MODIFICATION INSPECTION MODIFICATION INSPECTION" REPORT FOR THE ORIGINAL PROJECT.

REQUIRED PHOTOS:

- BETWEEN THE GC AND THE MI INSPECTOR THE FOLLOWING PHOTOGRAPHS ARE TO BE TAKEN AND INCLUDED IN THE MODIFICATION INSPECTION REPORT:
 - PRECONSTRUCTION GENERAL SITE CONDITION
 - PHOTOGRAPHS DURING THE REINFORCEMENT MODIFICATION CONSTRUCTION/ERECTION AND INSPECTION
 - RAW MATERIALS
 - WELD PREPARATION, POSITIONING, AND TACKLING
 - FOUNDATION AND GROUT TORQUE
 - FINAL INSTALLED CONDITION
 - SURFACE COATING REPAIR
 - POST CONDITION PHOTOGRAPHS
 - FINAL INFELD CONDITION ANY OTHER PHOTOS DEEMED RELEVANT TO SHOW COMPLETE DETAILS OF MODIFICATIONS
- PHOTOS OF ELEVATED MODIFICATIONS TAKEN FROM THE GROUND SHALL BE CONSIDERED INADEQUATE.




CROWN CASTLE



POD
POWER OF DESIGN

3035 E. TURNKEY FOOT-LANE RD.
SUITE 1000
330-982-7432



Mobile

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MODIFICATION DRAWING

REV.	DATE	DESCRIPTION

SITE INFORMATION:

HRT 094 943225 (CT11161D)

439-445 HOMETOWN AVE.
HARTFORD, CT 06105

SITE NUMBER:
806369

POD NUMBER: 2616846

DRAWN BY: TAJ

CHECKED BY: JGC

DATE: 08/19/2020

MODIFICATION CHECKLIST

MI-01

Exhibit F

Power Density/RF Emissions Report



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

T-Mobile Existing Facility

Site ID: CT11161D

CT161/Jn of Albany_I
439 Homestead Avenue
Hartford, Connecticut 06112

July 9, 2020

EBI Project Number: 6220002984

Site Compliance Summary	
Compliance Status:	COMPLIANT
Site total MPE% of FCC general population allowable limit:	25.82%



July 9, 2020

T-Mobile

Attn: Jason Overbey, RF Manager

35 Griffin Road South

Bloomfield, Connecticut 06002

Emissions Analysis for Site: CT11161D - CT161/Jn of Albany_1

EBI Consulting was directed to analyze the proposed T-Mobile facility located at **439 Homestead Avenue in Hartford, Connecticut** for the purpose of determining whether the emissions from the Proposed T-Mobile 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 T-Mobile Wireless antenna facility located at 439 Homestead Avenue in Hartford, Connecticut using the equipment information listed below. All calculations were performed per the specifications under FCC OET 65. Since T-Mobile 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 10 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) 2 LTE 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) 1 NR channel (600 MHz Band) was considered for each sector of the proposed installation. This Channel has a transmit power of 80 Watts.
- 3) 2 LTE channels (700 MHz Band) were considered for each sector of the proposed installation. These Channels have a transmit power of 30 Watts per Channel.
- 4) 4 GSM channels (PCS Band - 1900 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 30 Watts per Channel.
- 5) 4 LTE channels (PCS Band - 1900 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 60 Watts per Channel.



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- 6) 2 UMTS channels (AWS Band - 2100 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 30 Watts per Channel.
- 7) 2 LTE channels (AWS Band – 2100 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 60 Watts per Channel.
- 8) 2 LTE channels (BRS Band - 2500 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 40 Watts per Channel.
- 9) 2 NR channels (BRS Band - 2500 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 40 Watts per Channel.
- 10) 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.
- 11) 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 10 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.
- 12) The antennas used in this modeling are the RFS APXVAARR24_43-UNA20 for the 600 MHz / 600 MHz / 700 MHz / 1900 MHz channel(s), the Ericsson AIR 32 for the 1900 MHz / 2100 MHz channel(s), the Ericsson AIR 21 for the 1900 MHz / 2100 MHz channel(s), the Ericsson AIR 6449 for the 2500 MHz / 2500 MHz channel(s) in Sector A, the RFS APXVAARR24_43-UNA20 for the 600 MHz / 600 MHz / 700 MHz / 1900 MHz channel(s), the Ericsson AIR 32 for the 1900 MHz / 2100 MHz channel(s), the Ericsson AIR 21 for the 1900 MHz / 2100 MHz channel(s), the Ericsson AIR 6449 for the 2500 MHz / 2500 MHz channel(s) in Sector B, the RFS APXVAARR24_43-UNA20 for the 600 MHz / 600 MHz / 700 MHz / 1900 MHz channel(s), the Ericsson AIR 32 for the 1900 MHz / 2100 MHz channel(s), the Ericsson AIR 21 for the 1900 MHz / 2100 MHz channel(s), the Ericsson AIR 6449 for the 2500 MHz / 2500 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 10 dB for directional



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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.

- 13) The antenna mounting height centerline of the proposed antennas is 128 feet above ground level (AGL).
- 14) 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.
- 15) All calculations were done with respect to uncontrolled / general population threshold limits.



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T-Mobile Site Inventory and Power Data

Sector:	A	Sector:	B	Sector:	C
Antenna #:	1	Antenna #:	1	Antenna #:	1
Make / Model:	RFS APXVAARR24_43-UNA20	Make / Model:	RFS APXVAARR24_43-UNA20	Make / Model:	RFS APXVAARR24_43-UNA20
Frequency Bands:	600 MHz / 600 MHz / 700 MHz / 1900 MHz	Frequency Bands:	600 MHz / 600 MHz / 700 MHz / 1900 MHz	Frequency Bands:	600 MHz / 600 MHz / 700 MHz / 1900 MHz
Gain:	12.95 dBd / 12.95 dBd / 13.35 dBd / 15.65 dBd	Gain:	12.95 dBd / 12.95 dBd / 13.35 dBd / 15.65 dBd	Gain:	12.95 dBd / 12.95 dBd / 13.35 dBd / 15.65 dBd
Height (AGL):	128 feet	Height (AGL):	128 feet	Height (AGL):	128 feet
Channel Count:	7	Channel Count:	7	Channel Count:	7
Total TX Power (W):	320 Watts	Total TX Power (W):	320 Watts	Total TX Power (W):	320 Watts
ERP (W):	8,466.41	ERP (W):	8,466.41	ERP (W):	8,466.41
Antenna A1 MPE %:	3.09%	Antenna B1 MPE %:	3.09%	Antenna C1 MPE %:	3.09%
Antenna #:	2	Antenna #:	2	Antenna #:	2
Make / Model:	Ericsson AIR 32	Make / Model:	Ericsson AIR 32	Make / Model:	Ericsson AIR 32
Frequency Bands:	1900 MHz / 2100 MHz	Frequency Bands:	1900 MHz / 2100 MHz	Frequency Bands:	1900 MHz / 2100 MHz
Gain:	15.35 dBd / 15.85 dBd	Gain:	15.35 dBd / 15.85 dBd	Gain:	15.35 dBd / 15.85 dBd
Height (AGL):	128 feet	Height (AGL):	128 feet	Height (AGL):	128 feet
Channel Count:	4	Channel Count:	4	Channel Count:	4
Total TX Power (W):	240 Watts	Total TX Power (W):	240 Watts	Total TX Power (W):	240 Watts
ERP (W):	8,728.31	ERP (W):	8,728.31	ERP (W):	8,728.31
Antenna A2 MPE %:	1.92%	Antenna B2 MPE %:	1.92%	Antenna C2 MPE %:	1.92%
Antenna #:	3	Antenna #:	3	Antenna #:	3
Make / Model:	Ericsson AIR 21	Make / Model:	Ericsson AIR 21	Make / Model:	Ericsson AIR 21
Frequency Bands:	1900 MHz / 2100 MHz	Frequency Bands:	1900 MHz / 2100 MHz	Frequency Bands:	1900 MHz / 2100 MHz
Gain:	15.35 dBd / 15.35 dBd	Gain:	15.35 dBd / 15.35 dBd	Gain:	15.35 dBd / 15.35 dBd
Height (AGL):	128 feet	Height (AGL):	128 feet	Height (AGL):	128 feet
Channel Count:	6	Channel Count:	6	Channel Count:	6
Total TX Power (W):	180 Watts	Total TX Power (W):	180 Watts	Total TX Power (W):	180 Watts
ERP (W):	6,169.82	ERP (W):	6,169.82	ERP (W):	6,169.82
Antenna A3 MPE %:	1.35%	Antenna B3 MPE %:	1.35%	Antenna C3 MPE %:	1.35%
Antenna #:	4	Antenna #:	4	Antenna #:	4
Make / Model:	Ericsson AIR 6449	Make / Model:	Ericsson AIR 6449	Make / Model:	Ericsson AIR 6449
Frequency Bands:	2500 MHz / 2500 MHz	Frequency Bands:	2500 MHz / 2500 MHz	Frequency Bands:	2500 MHz / 2500 MHz
Gain:	22.05 dBd / 22.05 dBd	Gain:	22.05 dBd / 22.05 dBd	Gain:	22.05 dBd / 22.05 dBd
Height (AGL):	128 feet	Height (AGL):	128 feet	Height (AGL):	128 feet
Channel Count:	4	Channel Count:	4	Channel Count:	4
Total TX Power (W):	160 Watts	Total TX Power (W):	160 Watts	Total TX Power (W):	160 Watts
ERP (W):	25,651.93	ERP (W):	25,651.93	ERP (W):	25,651.93
Antenna A4 MPE %:	5.63%	Antenna B4 MPE %:	5.63%	Antenna C4 MPE %:	5.63%



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Site Composite MPE %	
Carrier	MPE %
T-Mobile (Max at Sector A):	11.99%
Sprint	1.23%
Clearwire	0.19%
Sensus (CL&P)	0.25%
Metro PCS	1.57%
Verizon	2.87%
AT&T	7.72%
Site Total MPE % :	25.82%

T-Mobile MPE % Per Sector	
T-Mobile Sector A Total:	11.99%
T-Mobile Sector B Total:	11.99%
T-Mobile Sector C Total:	11.99%
Site Total MPE % :	25.82%

T-Mobile Maximum MPE Power Values (Sector A)

T-Mobile 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
T-Mobile 600 MHz LTE	2	591.73	128.0	2.60	600 MHz LTE	400	0.65%
T-Mobile 600 MHz NR	1	1577.94	128.0	3.46	600 MHz NR	400	0.87%
T-Mobile 700 MHz LTE	2	648.82	128.0	2.85	700 MHz LTE	467	0.61%
T-Mobile 1900 MHz LTE	2	2203.69	128.0	9.67	1900 MHz LTE	1000	0.97%
T-Mobile 1900 MHz LTE	2	2056.61	128.0	9.03	1900 MHz LTE	1000	0.90%
T-Mobile 2100 MHz LTE	2	2307.55	128.0	10.13	2100 MHz LTE	1000	1.01%
T-Mobile 1900 MHz GSM	4	1028.30	128.0	9.03	1900 MHz GSM	1000	0.90%
T-Mobile 2100 MHz UMTS	2	1028.30	128.0	4.51	2100 MHz UMTS	1000	0.45%
T-Mobile 2500 MHz LTE	2	6412.98	128.0	28.14	2500 MHz LTE	1000	2.81%
T-Mobile 2500 MHz NR	2	6412.98	128.0	28.14	2500 MHz NR	1000	2.81%
						Total:	11.99%

• 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 T-Mobile 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:

T-Mobile Sector	Power Density Value (%)
Sector A:	11.99%
Sector B:	11.99%
Sector C:	11.99%
T-Mobile Maximum MPE % (Sector A):	11.99%
Site Total:	25.82%
Site Compliance Status:	COMPLIANT

The anticipated composite MPE value for this site assuming all carriers present is **25.82%** 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.