



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: siting.council@ct.gov

www.ct.gov/csc

VIA ELECTRONIC MAIL

December 16, 2019

Kristina Cottone
Smartlink, LLC
85 Rangeway Road, Building 3, Suite 102
North Billerica, MA 01862

RE: **EM-AT&T-001-191108** – AT&T Mobility, LLC notice of intent to modify an existing telecommunications facility located at 104 Bunker Hill Road, Andover, Connecticut.

Dear Ms. Cottone:

The Connecticut Siting Council (Council) is in receipt of your correspondence of December 10, 2019 submitted in response to the Council's November 15, 2019 notification of an incomplete request for exempt modification with regard to the above-referenced matter.

The submission renders the request for exempt modification complete and the Council will process the request in accordance with the Federal Communications Commission 60-day timeframe.

Thank you for your attention and cooperation.

Sincerely,

Melanie A. Bachman
Executive Director

MAB/IN/emr



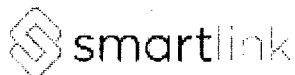
Robidoux, Evan

From: Kristina Cottone <kristina.cottone@smartlinkllc.com>
Sent: Tuesday, December 10, 2019 1:07 PM
To: Robidoux, Evan
Cc: CSC-DL Siting Council
Subject: RE: Council Incomplete Letter for EM-AT&T-001-191108 (104 Bunker Hill Road, Andover)
Attachments: 10035387_AE201_191209_CTL01122_REV4.pdf; 10035387_DE125_191209_CTL01122.pdf; CTL01122_no csc RECORD.pdf

Hello,

Please see attached, hard copies are in the mail as well.

Thank you,



Kristina Cottone | Real Estate Specialist
Smartlink

85 Rangeway Road – Building 3 Suite 102
North Billerica MA, 01862
(m) 978.551.8627
Kristina.cottone@Smartlinkllc.com

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From: Robidoux, Evan <Evan.Robidoux@ct.gov>
Sent: Friday, November 15, 2019 3:34 PM
To: Kristina Cottone <kristina.cottone@smartlinkllc.com>
Cc: CSC-DL Siting Council <Siting.Council@ct.gov>
Subject: Council Incomplete Letter for EM-AT&T-001-191108 (104 Bunker Hill Road, Andover)

Warning:This message was sent from outside the company and could contain attachments. Please do not open unless you recognize the source of this email and know the content is safe.

Please see the attached correspondence.

Evan Robidoux
Clerk Typist
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

SHEET INDEX

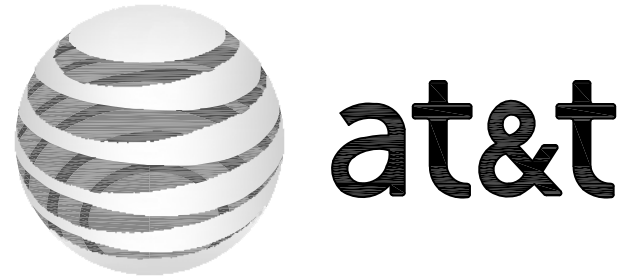
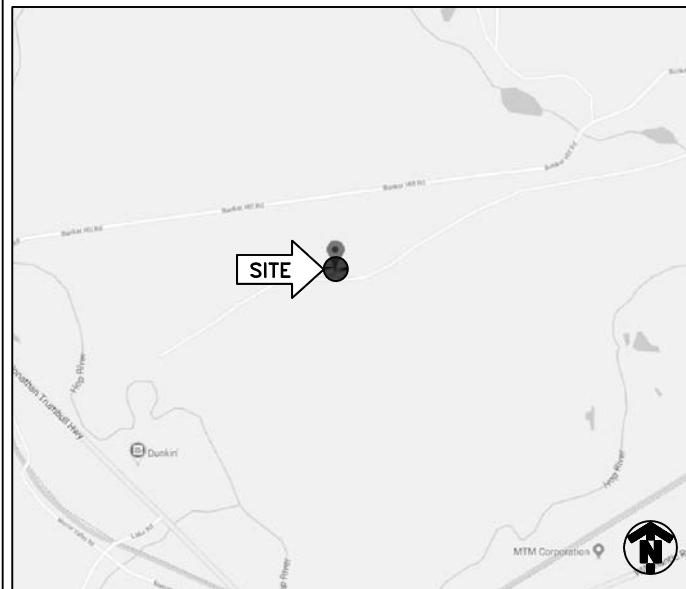
NO.	DESCRIPTION
T1	TITLE SHEET
C1	GENERAL NOTES
C2	OVERALL SITE PLAN
C2A	ENLARGED SITE PLAN
C3	ELEVATION VIEW
C4	ANTENNA ORIENTATION PLAN
C5	EQUIPMENT DETAILS
C6	PLUMBING DIAGRAM
C7	GROUNDING DETAILS

DRIVING DIRECTIONS

FROM 550 COCHITUATE RD.:

GET ON I-90 WEST/MASSACHUETTS TURNPIKE. HEAD NORTHEAST TOWARD LEGGATT MCCALL CONN. TURN LEFT ONTO LEGGATT MCCALL CONN. CONTINUE ONTO BURR STREET. TURN LEFT ONTO COCHITUATE ROAD. USE THE RIGHT LANE TO TAKE THE RAMP TO I-90 EAST/MASSPIKE WEST/SPRINGFIELD/BOSTON. KEEP LEFT AT THE FORK, FOLLOW SIGNS FOR I-90 WEST/MASSACHUETTS TURNPIKE/WORCESTER/SPRINGFIELD AND MERGE ONTO I-90 WEST/MASSACHUETTS TURNPIKE. FOLLOW I-90 WEST/MASSACHUETTS TURNPIKE AND I-84 TO CT-32 SOUTH IN WILLINGTON. TAKE EXIT 70 FROM I-84. MERGE ONTO I-90 WEST/MASSACHUETTS TURNPIKE. USE THE RIGHT 2 LANES TO TAKE EXIT 9 FOR I-84 TOWARD US-20/HARTFORD/NEW YORK CITY. CONTINUE ONTO I-84. TAKE EXIT 70 FOR CT-32 TOWARD WILLINGTON/WILLIMANTIC. CONTINUE ON CT-32 SOUTH TO YOUR DESTINATION IN ANDOVER. TURN LEFT ONTO CT-32 SOUTH. TURN RIGHT ONTO US-44 WEST. TURN LEFT ONTO LEWIS HILL ROAD. TURN RIGHT ONTO RIPLEY HILL ROAD. TURN LEFT ONTO CT-31 SOUTH/MAIN STREET. TURN RIGHT ONTO LAKE STREET. CONTINUE ONTO CROSS STREET. TURN LEFT ONTO SOUTH STREET. TURN RIGHT ONTO BUNKER HILL ROAD. TURN LEFT.

LOCATION MAP



PROJECT
LTE 2C/3C/4C/5C/RETROFIT

SITE NAME
ANDOVER EAST

CELL SITE ID
CTL01122

FA SITE NUMBER
10035387

PACE ID
**MRCTB042111/MRCTB025450/MRCTB025510
MRCTB042112/MRCTB042130**

SITE ADDRESS
**104 BUNKER HILL ROAD
ANDOVER, CT 06232**

STRUCTURE TYPE
MONOPOLE

PROJECT TEAM



PROJECT MANAGER



1033 Watervliet Shaker Rd
Albany, NY 12205
Office # (518) 690-0790
Fax # (518) 690-0793

ENGINEER

SCOPE OF WORK (PER LTE RFDS, DATED 10/28/19 V5.00):

- HANDICAP ACCESS REQUIREMENTS ARE NOT REQUIRED.
- FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION.
- FACILITY HAS NO PLUMBING OR REFRIGERANTS.
- THIS FACILITY SHALL MEET OR EXCEED ALL FAA AND FCC REGULATORY REQUIREMENTS.
- ALL NEW MATERIAL SHALL BE FURNISHED AND INSTALLED BY CONTRACTOR UNLESS NOTED OTHERWISE. EQUIPMENT, ANTENNAS/RRU AND CABLES FURNISHED BY OWNER AND INSTALLED BY CONTRACTOR.

- TOWER**
- REMOVE (6) PANEL ANTENNAS
 - INSTALL (6) PANEL ANTENNAS
 - REMOVE (3) RRUS-11 B12
 - INSTALL (3) B14 4478
 - INSTALL (3) 4449 B5/B12
 - INSTALL (3) 8843 B2/B66A
 - INSTALL (2) DC6 SQUID W/ (1) FIBER AND (4) DC CABLES
 - REPLACE EXISTING ANTENNA PLATFORM
 - REMOVE (6) DIPLEXERS

- GROUND**
- SWAP BB WITH (2) 6630
 - ADD XMU
 - ADD IDL_e CABLE
 - INSTALL (1) RACK MOUNTED DC 12
 - REMOVE EXISTING DC POWER PLANT AND REPLACE WITH NETSURE 7100 WITH BATTERIES
 - REMOVE (6) DIPLEXERS

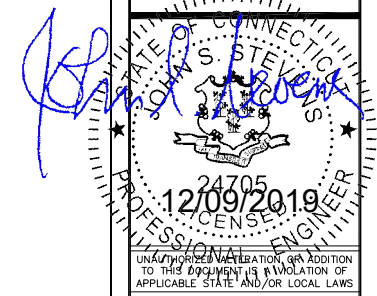
PROJECT SUMMARY

SITE NAME: ANDOVER EAST
 CELL SITE ID: CTL01122
 FA SITE #: 10035387
 SITE ADDRESS: 104 BUNKER HILL ROAD
 ANDOVER, CT 06232
 COUNTY: TOLLAND
 SITE COORDINATES:
 LATITUDE: 41.7378250° N (NAD 83)
 LONGITUDE: 72.3498319° W (NAD 83)
 RAD CENTER ±137' (AGL)
 LANDLORD: AMERICAN TOWER CORPORATION
 10 PRESIDENTAL WAY
 WOBURN, MA 01801
 APPLICANT: AT&T MOBILITY
 550 COCHITUATE RD.
 FRAMINGHAM, MA 01701
 CLIENT REPRESENTATIVE: SMARTLINK, LLC
 85 RANGEWAY RD., BUILDING 3, SUITE 102
 NORTH BILLERICA, MA 01862
 CONTACT: SHARON KEEFE
 (978) 930-3918
 ENGINEER: INFINIGY
 1033 WATERVLIET SHAKER ROAD
 ALBANY, NY 12205
 CONTACT: ALEX WELLER
 (518) 690-0790
 BUILDING CODE: 2018 CT STATE BUILDING CODE
 2015 INTERNATIONAL BUILDING CODE
 ANSI/TIA-222 G
 2015 INTERNATIONAL PLUMBING CODE
 2015 INTERNATIONAL MECHANICAL CODE
 2015 INTERNATIONAL ENERGY CONSERVATION CODE
 2017 NFPA 70
 ELECTRICAL CODE: NATIONAL ELECTRICAL CODE (LATEST EDITION)

TO OBTAIN LOCATION OF PARTICIPANTS UNDERGROUND FACILITIES BEFORE YOU DIG IN CONNECTICUT, CONTACT CALL BEFORE YOU DIG TOLL FREE: 1-800-922-4455 OR www.cbyd.com

CONNECTICUT STATUTE REQUIRES MIN OF 2 WORKING DAYS NOTICE BEFORE YOU EXCAVATE

Know what's below. Call before you dig.

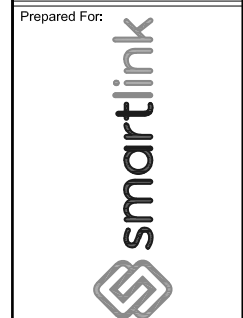


No.	Submittal / Revision	App'd	Date
4	REVISED FOR PERMIT	BMM	12/09/19
3	REVISED FOR PERMIT	BMM	11/26/19
2	ISSUED FOR PERMIT	ASW	11/06/19
1	ISSUED FOR PERMIT	ASW	10/10/19
0	ISSUED FOR REVIEW	BMM	09/11/19

Drawn: BMM Date: 09/11/19
 Designed: ASW Date: 09/11/19
 Checked: AD Date: 09/11/19

Project Number: 499-006

Project Title:
ANDOVER EAST
CTL01122
FA# 10035387
 104 BUNKER HILL ROAD
 ANDOVER, CT 06232



Drawing Scale: AS NOTED
CD
 Date: 12/09/19

Drawing Title
TITLE PAGE

Drawing Number
T1

GENERAL NOTES

PART 1 – GENERAL REQUIREMENTS

- 1.1 THE WORK SHALL COMPLY WITH APPLICABLE NATIONAL CODES AND STANDARDS, LATEST EDITION, AND PORTIONS THEREOF, INCLUDED BUT NOT LIMITED TO THE FOLLOWING:
- A. GR-63-CORE NEBS REQUIREMENTS: PHYSICAL PROTECTION
 - B. GR-78-CORE GENERIC REQUIREMENTS FOR THE PHYSICAL DESIGN AND MANUFACTURE OF TELECOMMUNICATIONS EQUIPMENT.
 - C. NATIONAL FIRE PROTECTION ASSOCIATION CODES AND STANDARDS (NFPA) INCLUDING NFPA 70 (NATIONAL ELECTRICAL CODE – "NEC").
 - D. AND NFPA 101 (LIFE SAFETY CODE).
 - E. AMERICAN SOCIETY FOR TESTING OF MATERIALS (ASTM).
 - F. INSTITUTE OF ELECTRONIC AND ELECTRICAL ENGINEERS (IEEE).
- 1.2 DEFINITIONS:
- A. WORK: THE SUM OF TASKS AND RESPONSIBILITIES IDENTIFIED IN THE CONTRACT DOCUMENTS.
 - B. COMPANY: AT&T CORPORATION
 - C. ENGINEER: SYNONYMOUS WITH ARCHITECT & ENGINEER AND "A&E". THE DESIGN PROFESSIONAL HAVING PROFESSIONAL RESPONSIBILITY FOR DESIGN OF THE PROJECT.
 - D. CONTRACTOR: CONSTRUCTION CONTRACTOR; CONSTRUCTION VENDOR; INDIVIDUAL OR ENTITY WHO AFTER EXECUTION OF A CONTRACT IS BOUND TO ACCOMPLISH THE WORK.
 - E. THIRD PARTY VENDOR OR AGENCY: A VENDOR OR AGENCY ENGAGED SEPARATELY BY THE COMPANY, A&E, OR CONTRACTOR TO PROVIDE MATERIALS OR TO ACCOMPLISH SPECIFIC TASKS RELATED TO BUT NOT INCLUDED IN THE WORK.
- 1.3 POINT OF CONTACT: COMMUNICATION BETWEEN THE COMPANY AND THE CONTRACTOR SHALL FLOW THROUGH THE SINGLE COMPANY SITE DEVELOPMENT SPECIALIST OR OTHER PROJECT COORDINATOR APPOINTED TO MANAGE THE PROJECT FOR THE COMPANY.
- 1.4 ON-SITE SUPERVISION: THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL EMPLOY A COMPETENT SUPERINTENDENT WHO SHALL BE IN ATTENDANCE AT THE SITE AT ALL TIMES DURING PERFORMANCE OF THE WORK.
- 1.5 DRAWINGS, SPECIFICATIONS AND DETAILS REQUIRED AT JOBSITE: THE CONSTRUCTION CONTRACTOR SHALL MAINTAIN A FULL SET OF THE CONSTRUCTION DRAWINGS, STANDARD CONSTRUCTION DETAILS FOR WIRELESS SITES, AND THE STANDARD CONSTRUCTION SPECIFICATIONS FOR WIRELESS SITES AT THE JOBSITE FROM MOBILIZATION THROUGH CONSTRUCTION COMPLETION.
- A. THE JOBSITE DRAWINGS, SPECIFICATIONS AND DETAILS SHALL BE CLEARLY MARKED DAILY IN PENCIL WITH ANY CHANGES IN CONSTRUCTION OVER WHAT IS DEPICTED IN THE DOCUMENTS. AT CONSTRUCTION COMPLETION, THIS JOBSITE MARKUP SET SHALL BE DELIVERED TO THE COMPANY OR COMPANY'S DESIGNATED REPRESENTATIVE TO BE FORWARDED TO THE COMPANY'S A&E VENDOR FOR PRODUCTION OF "AS-BUILT" DRAWINGS.
- 1.6 USE OF JOB SITE: THE CONTRACTOR SHALL CONFINE ALL CONSTRUCTION AND RELATED OPERATIONS INCLUDING STAGING AND STORAGE OF MATERIALS AND EQUIPMENT, PARKING, TEMPORARY FACILITIES, AND WASTE STORAGE TO THE LEASE PARCEL UNLESS OTHERWISE PERMITTED BY THE CONTRACT DOCUMENTS.
- 1.7 NOTICE TO PROCEED:
- A. NO WORK SHALL COMMENCE PRIOR TO COMPANY'S WRITTEN NOTICE TO PROCEED.
 - B. UPON RECEIVING NOTICE TO PROCEED, CONTRACTOR SHALL FULLY PERFORM ALL WORK NECESSARY TO PROVIDE AT&T WITH AN OPERATIONAL WIRELESS FACILITY.

PART 2 – EXECUTION

- 2.1 TEMPORARY UTILITIES AND FACILITIES: THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY UTILITIES AND FACILITIES NECESSARY EXCEPT AS OTHERWISE INDICATED IN THE CONSTRUCTION DOCUMENTS. TEMPORARY UTILITIES AND FACILITIES INCLUDE, POTABLE WATER, HEAT, HVAC, ELECTRICITY, SANITARY FACILITIES, WASTE DISPOSAL FACILITIES, AND TELEPHONE/COMMUNICATION SERVICES. PROVIDE TEMPORARY UTILITIES AND FACILITIES IN ACCORDANCE WITH OSHA AND THE AUTHORITY HAVING JURISDICTION. CONTRACTOR MAY UTILIZE THE COMPANY ELECTRICAL SERVICE IN THE COMPLETION OF THE WORK WHEN IT BECOMES AVAILABLE. USE OF THE LESSORS OR SITE OWNER'S UTILITIES OR FACILITIES IS EXPRESSLY FORBIDDEN EXCEPT AS OTHERWISE ALLOWED IN THE CONTRACT DOCUMENTS.
- 2.2 ACCESS TO WORK: THE CONTRACTOR SHALL PROVIDE ACCESS TO THE JOB SITE FOR AUTHORIZED COMPANY PERSONNEL AND AUTHORIZED REPRESENTATIVES OF THE ARCHITECT/ENGINEER DURING ALL PHASES OF THE WORK.
- 2.3 TESTING: REQUIREMENTS FOR TESTING BY THIS CONTRACTOR SHALL BE AS INDICATED HERewith, ON THE CONSTRUCTION DRAWINGS, AND IN THE INDIVIDUAL SECTIONS OF THESE SPECIFICATIONS. SHOULD COMPANY CHOOSE TO ENGAGE ANY THIRD-PARTY TO CONDUCT ADDITIONAL TESTING, THE CONTRACTOR SHALL COOPERATE WITH AND PROVIDE A WORK AREA FOR COMPANY'S TEST AGENCY.

- 2.4 COMPANY FURNISHED MATERIAL AND EQUIPMENT: ALL HANDLING, STORAGE AND INSTALLATION OF COMPANY FURNISHED MATERIAL AND EQUIPMENT SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS AND WITH THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.
- A. CONTRACTOR SHALL PROCURE ALL OTHER REQUIRED WORK RELATED MATERIALS NOT PROVIDED BY AT&T TO SUCCESSFULLY CONSTRUCT A WIRELESS FACILITY.
- 2.5 DIMENSIONS: VERIFY DIMENSIONS INDICATED ON DRAWINGS WITH FIELD DIMENSIONS BEFORE FABRICATION OR ORDERING OF MATERIALS. DO NOT SCALE DRAWINGS.
- 2.6 EXISTING CONDITIONS: NOTIFY THE COMPANY REPRESENTATIVE OF EXISTING CONDITIONS DIFFERING FROM THOSE INDICATED ON THE DRAWINGS. DO NOT REMOVE OR ALTER STRUCTURAL COMPONENTS WITHOUT PRIOR WRITTEN APPROVAL FROM THE ARCHITECT AND ENGINEER.

PART 3 – RECEIPT OF MATERIAL & EQUIPMENT

- 3.1 RECEIPT OF MATERIAL AND EQUIPMENT: CONTRACTOR IS RESPONSIBLE FOR AT&T PROVIDED MATERIAL AND EQUIPMENT AND UPON RECEIPT SHALL:
- A. ACCEPT DELIVERIES AS SHIPPED AND TAKE RECEIPT.
 - B. VERIFY COMPLETENESS AND CONDITION OF ALL DELIVERIES.
 - C. TAKE RESPONSIBILITY FOR EQUIPMENT AND PROVIDE INSURANCE PROTECTION AS REQUIRED IN AGREEMENT.
 - D. RECORD ANY DEFECTS OR DAMAGES AND WITHIN TWENTY-FOUR HOURS AFTER RECEIPT, REPORT TO AT&T OR ITS DESIGNATED PROJECT REPRESENTATIVE OF SUCH.
 - E. PROVIDE SECURE AND NECESSARY WEATHER PROTECTED WAREHOUSING.
 - F. COORDINATE SAFE AND SECURE TRANSPORTATION OF MATERIAL AND EQUIPMENT, DELIVERING AND OFF-LOADING FROM CONTRACTOR'S WAREHOUSE TO SITE.

PART 4 – GENERAL REQUIREMENTS FOR CONSTRUCTION

- 4.1 CONTRACTOR SHALL KEEP THE SITE FREE FROM ACCUMULATING WASTE MATERIAL, DEBRIS, AND TRASH. AT THE COMPLETION OF THE WORK, CONTRACTOR SHALL REMOVE FROM THE SITE ALL REMAINING RUBBISH, IMPLEMENTS, TEMPORARY FACILITIES, AND SURPLUS MATERIALS.
- 4.2 EQUIPMENT ROOMS SHALL AT ALL TIMES BE MAINTAINED "BROOM CLEAN" AND CLEAR OF DEBRIS.
- 4.3 CONTRACTOR SHALL TAKE ALL REASONABLE PRECAUTIONS TO DISCOVER AND LOCATE ANY HAZARDOUS CONDITION.
- A. IN THE EVENT CONTRACTOR ENCOUNTERS ANY HAZARDOUS CONDITION WHICH HAS NOT BEEN ABATED OR OTHERWISE MITIGATED, CONTRACTOR AND ALL OTHER PERSONS SHALL IMMEDIATELY STOP WORK IN THE AFFECTED AREA AND NOTIFY COMPANY IN WRITING. THE WORK IN THE AFFECTED AREA SHALL NOT BE RESUMED EXCEPT BY WRITTEN NOTIFICATION BY COMPANY.
 - B. CONTRACTOR AGREES TO USE CARE WHILE ON THE SITE AND SHALL NOT TAKE ANY ACTION THAT WILL OR MAY RESULT IN OR CAUSE THE HAZARDOUS CONDITION TO BE FURTHER RELEASED IN THE ENVIRONMENT, OR TO FURTHER EXPOSE INDIVIDUALS TO THE HAZARD.
- 4.4 CONTRACTOR'S ACTIVITIES SHALL BE RESTRICTED TO THE PROJECT LIMITS. SHOULD AREAS OUTSIDE THE PROJECT LIMITS BE AFFECTED BY CONTRACTOR'S ACTIVITIES, CONTRACTOR SHALL IMMEDIATELY RETURN THEM TO ORIGINAL CONDITION.
- 4.5 CONDUCT TESTING AS REQUIRED HEREIN.

PART 5 – TESTS AND INSPECTIONS

- 5.1 TESTS AND INSPECTIONS:
- A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION TESTS, INSPECTIONS AND PROJECT DOCUMENTATION.
 - B. CONTRACTOR SHALL COORDINATE TEST AND INSPECTION SCHEDULES WITH COMPANY'S REPRESENTATIVE WHO MUST BE ON SITE TO WITNESS SUCH TESTS AND INSPECTIONS.
 - C. WHEN THE USE OF A THIRD PARTY INDEPENDENT TESTING AGENCY IS REQUIRED, THE AGENCY THAT IS SELECTED MUST PERFORM SUCH WORK ON A REGULAR BASIS IN THE STATE WHERE THE PROJECT IS LOCATED AND HAVE A THOROUGH UNDERSTANDING OF LOCAL AVAILABLE MATERIALS, INCLUDING THE SOIL, ROCK, AND GROUNDWATER CONDITIONS.
 - D. THE THIRD PARTY TESTING AGENCY IS TO BE FAMILIAR WITH THE APPLICABLE REQUIREMENTS FOR THE TESTS TO BE DONE, EQUIPMENT TO BE USED, AND ASSOCIATED HEALTH AND SAFETY ISSUES.
 - E. SITE RESISTANCE TO EARTH TESTING PER EXHIBIT: CELL SITE GROUNDING SYSTEM DESIGN.

- F. ANTENNA AND COAX SWEEP TESTS PER EXHIBIT: ANTENNA TRANSMISSION LINE ACCEPTANCE STANDARDS.
- G. ALL OTHER TESTS REQUIRED BY COMPANY OR JURISDICTION.

PART 6 – TRENCHING AND BACKFILLING

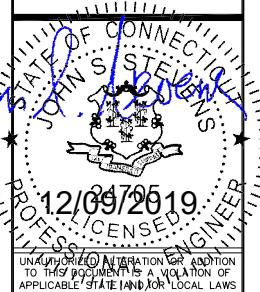
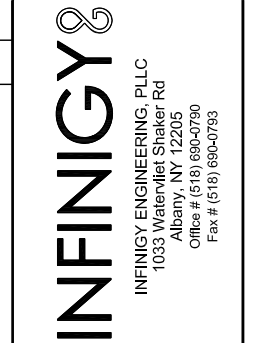
- 6.1 TRENCHING AND BACKFILLING: THE CONTRACTOR SHALL PERFORM ALL EXCAVATION OF EVERY DESCRIPTION AND OF WHATEVER SUBSTANCES ENCOUNTERED, TO THE DEPTHS INDICATED ON THE CONSTRUCTION DRAWINGS OR AS OTHERWISE SPECIFIED.
- A. PROTECTION OF EXISTING UTILITIES: THE CONTRACTOR SHALL CHECK WITH THE LOCAL UTILITIES AND THE RESPECTIVE UTILITY LOCATOR COMPANIES PRIOR TO STARTING EXCAVATION OPERATIONS IN EACH RESPECTIVE AREA TO ASCERTAIN THE LOCATIONS OF KNOWN UTILITY LINES. THE LOCATIONS, NUMBER AND TYPES OF EXISTING UTILITY LINES DETAILED ON THE CONSTRUCTION DRAWINGS ARE APPROXIMATE AND DO NOT REPRESENT EXACT INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ALL LINES DAMAGED DURING EXCAVATION AND ALL ASSOCIATED OPERATIONS. ALL UTILITY LINES UNCOVERED DURING THE EXCAVATION OPERATIONS, SHALL BE PROTECTED FROM DAMAGE DURING EXCAVATION AND ASSOCIATED OPERATIONS. ALL REPAIRS SHALL BE APPROVED BY THE UTILITY COMPANY.
 - B. HAND DIGGING: UNLESS APPROVED IN WRITING OTHERWISE, ALL DIGGING WITHIN AN EXISTING CELL SITE COMPOUND IS TO BE DONE BY HAND.
 - C. DURING EXCAVATION, MATERIAL SUITABLE FOR BACKFILLING SHALL BE STOCKPILED IN AN ORDERLY MANNER A SUFFICIENT DISTANCE FROM THE BANKS OF THE TRENCH TO AVOID OVERLOADING AND TO PREVENT SLIDES OR CAVE-INS. ALL EXCAVATED MATERIALS NOT REQUIRED OR SUITABLE FOR BACKFILL SHALL BE REMOVED AND DISPOSED OF AT THE CONTRACTOR'S EXPENSE.
 - D. GRADING SHALL BE DONE AS MAY BE NECESSARY TO PREVENT SURFACE WATER FROM FLOWING INTO TRENCHES OR OTHER EXCAVATIONS, AND ANY WATER ACCUMULATING THEREIN SHALL BE REMOVED BY PUMPING OR BY OTHER APPROVED METHOD.
 - E. SHEETING AND SHORING SHALL BE DONE AS NECESSARY FOR THE PROTECTION OF THE WORK AND FOR THE SAFETY OF PERSONNEL. UNLESS OTHERWISE INDICATED, EXCAVATION SHALL BE BY OPEN CUT, EXCEPT THAT SHORT SECTIONS OF A TRENCH MAY BE TUNNELED IF, THE CONDUIT CAN BE SAFELY AND PROPERLY INSTALLED AND BACKFILL CAN BE PROPERLY TAMPED IN SUCH TUNNEL SECTIONS. EARTH EXCAVATION SHALL COMPRISE ALL MATERIALS AND SHALL INCLUDE CLAY, SILT, SAND, MUCK, GRAVEL, HARDPAN, LOOSE SHALE, AND LOOSE STONE.
 - F. TRENCHES SHALL BE OF NECESSARY WIDTH FOR THE PROPER LAYING OF THE CONDUIT OR CABLE, AND THE BANKS SHALL BE AS NEARLY VERTICAL AS PRACTICABLE. THE BOTTOM OF THE TRENCHES SHALL BE ACCURATELY GRADED TO PROVIDE UNIFORM BEARING AND SUPPORT FOR EACH SECTION OF THE CONDUIT OR CABLE ON UNDISTURBED SOIL AT EVERY POINT ALONG ITS ENTIRE LENGTH. EXCEPT WHERE ROCK IS ENCOUNTERED, CARE SHALL BE TAKEN NOT TO EXCAVATE BELOW THE DEPTHS INDICATED. WHERE ROCK EXCAVATIONS ARE NECESSARY, THE ROCK SHALL BE EXCAVATED TO A MINIMUM OVER DEPTH OF 6 INCHES BELOW THE TRENCH DEPTHS INDICATED ON THE CONSTRUCTION DRAWINGS OR SPECIFIED. OVER DEPTHS IN THE ROCK EXCAVATION AND UNAUTHORIZED OVER DEPTHS SHALL BE THOROUGHLY BACK FILLED AND TAMPED TO THE APPROPRIATE GRADE. WHENEVER WET OR OTHERWISE UNSTABLE SOIL THAT IS INCAPABLE OF PROPERLY SUPPORTING THE CONDUIT OR CABLE IS ENCOUNTERED IN THE BOTTOM OF THE TRENCH, SUCH SOLID SHALL BE REMOVED TO A MINIMUM OVER DEPTH OF 6 INCHES AND THE TRENCH BACKFILLED TO THE PROPER GRADE WITH EARTH OF OTHER SUITABLE MATERIAL, AS HEREINAFTER SPECIFIED.
 - G. BACKFILLING OF TRENCHES. TRENCHES SHALL NOT BE BACKFILLED UNTIL ALL SPECIFIED TESTS HAVE BEEN PERFORMED AND ACCEPTED. WHERE COMPACTED BACKFILL IS NOT INDICATED THE TRENCHES SHALL BE CAREFULLY BACKFILLED WITH SELECT MATERIAL SUCH AS EXCAVATED SOILS THAT ARE FREE OF ROOTS, SOD, RUBBISH OR STONES, DEPOSITED IN 6 INCH LAYERS AND THOROUGHLY AND CAREFULLY RAMMED UNTIL THE CONDUIT OR CABLE HAS A COVER OF NOT LESS THAN 1 FOOT. THE REMAINDER OF THE BACKFILL MATERIAL SHALL BE GRANULAR IN NATURE AND SHALL NOT CONTAIN ROOTS, SOD, RUBBING, OR STONES OF 2-1/2 INCH MAXIMUM DIMENSION. BACKFILL SHALL BE CAREFULLY PLACED IN THE TRENCH AND IN 1 FOOT LAYERS AND EACH LAYER TAMPED. SETTLING THE BACKFILL WITH WATER WILL BE PERMITTED. THE SURFACE SHALL BE GRADED TO A REASONABLE UNIFORMITY AND THE MOUNDING OVER THE TRENCHES LEFT IN A UNIFORM AND NEAT CONDITION.

SYMBOL	DESCRIPTION
	CIRCUIT BREAKER
	NON-FUSIBLE DISCONNECT SWITCH
	FUSIBLE DISCONNECT SWITCH
	SURFACE MOUNTED PANEL BOARD
	TRANSFORMER
	KILOWATT HOUR METER
	JUNCTION BOX
	PULL BOX TO NEC/TELCO STANDARDS
-----	UNDERGROUND UTILITIES
	EXOTHERMIC WELD CONNECTION
	MECHANICAL CONNECTION
	GROUND ROD
	GROUND ROD WITH INSPECTION SLEEVE
	GROUND BAR
	120AC DUPLEX RECEPTACLE
	GROUND CONDUCTOR
	DC POWER AND FIBER OPTIC TRUNK CABLES
	DC POWER CABLES

REPRESENTS DETAIL NUMBER
 REF. DRAWING NUMBER

ABBREVIATIONS

CIGBE	COAX ISOLATED GROUND BAR EXTERNAL
MIGB	MASTER ISOLATED GROUND BAR
SST	SELF SUPPORTING TOWER
GPS	GLOBAL POSITIONING SYSTEM
TYP.	TYPICAL
DWG	DRAWING
BCW	BARE COPPER WIRE
BFG	BELOW FINISH GRADE
PVC	POLYVINYL CHLORIDE
CAB	CABINET
C	CONDUIT
SS	STAINLESS STEEL
G	GROUND
AWG	AMERICAN WIRE GAUGE
RGS	RIGID GALVANIZED STEEL
AHJ	AUTHORITY HAVING JURISDICTION
TTLNA	TOWER TOP LOW NOISE AMPLIFIER
UNO	UNLESS NOTED OTHERWISE
EMT	ELECTRICAL METALLIC TUBING
AGL	ABOVE GROUND LEVEL

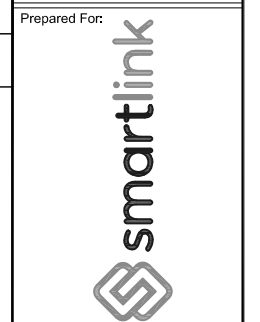


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1	ISSUED FOR PERMIT	ASW	10/10/19
0	ISSUED FOR REVIEW	BMM	09/11/19

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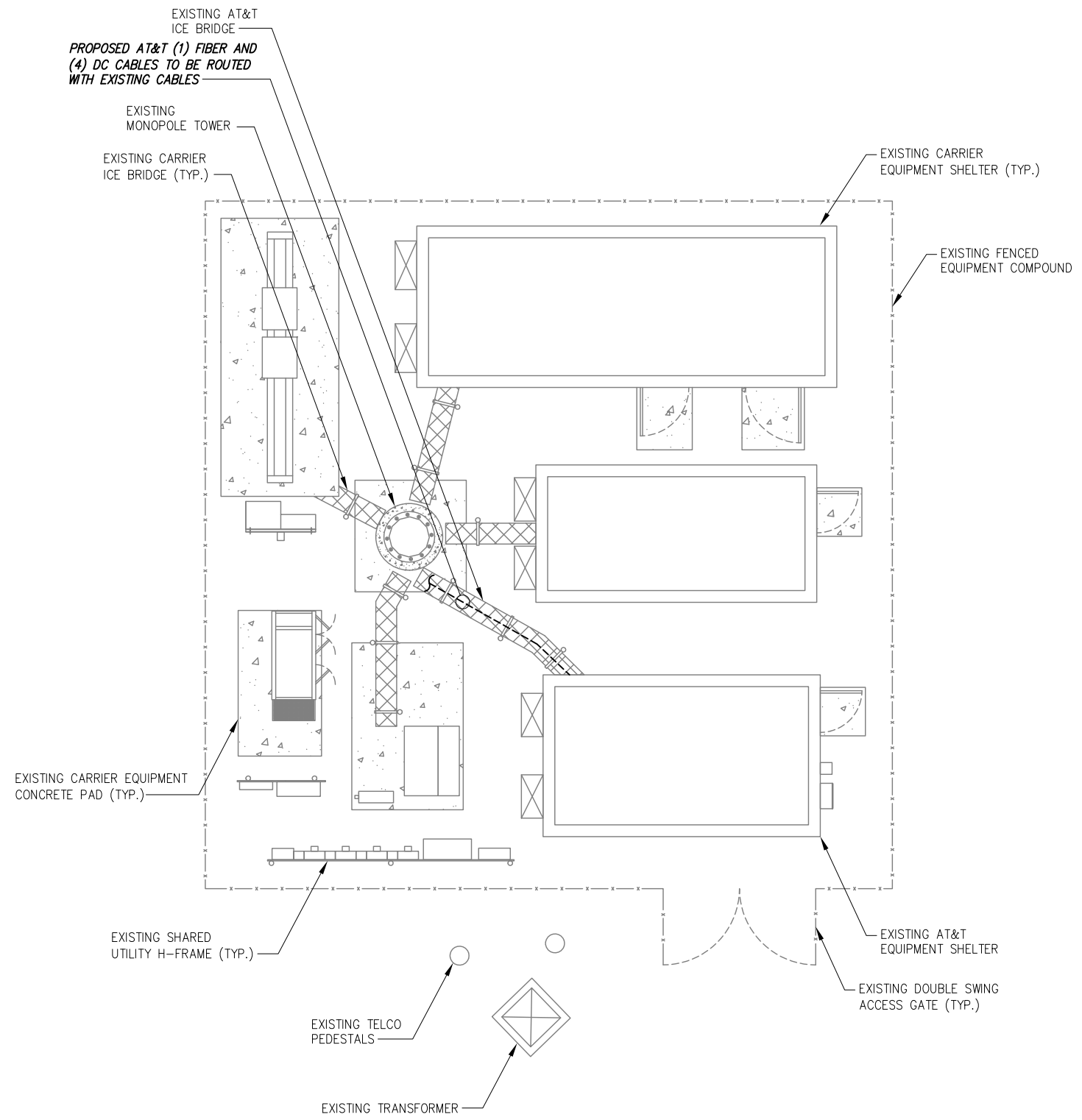
Project Title:
ANDOVER EAST
 CTL01122
 FA# 10035387
 104 BUNKER HILL ROAD
 ANDOVER, CT 06232



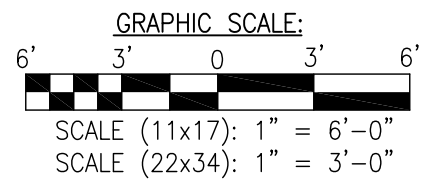
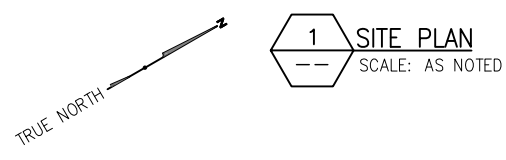
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Date: 12/09/19	

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GENERAL NOTES

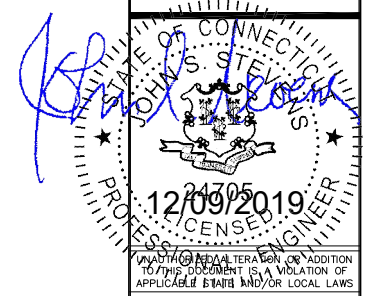
Drawing Number:
C1



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 Fax # (518) 690-0793



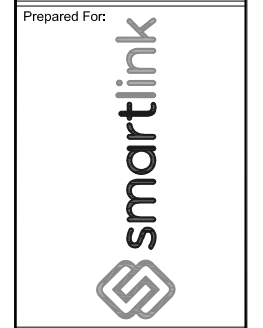
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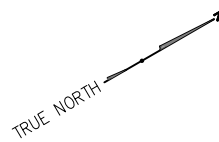
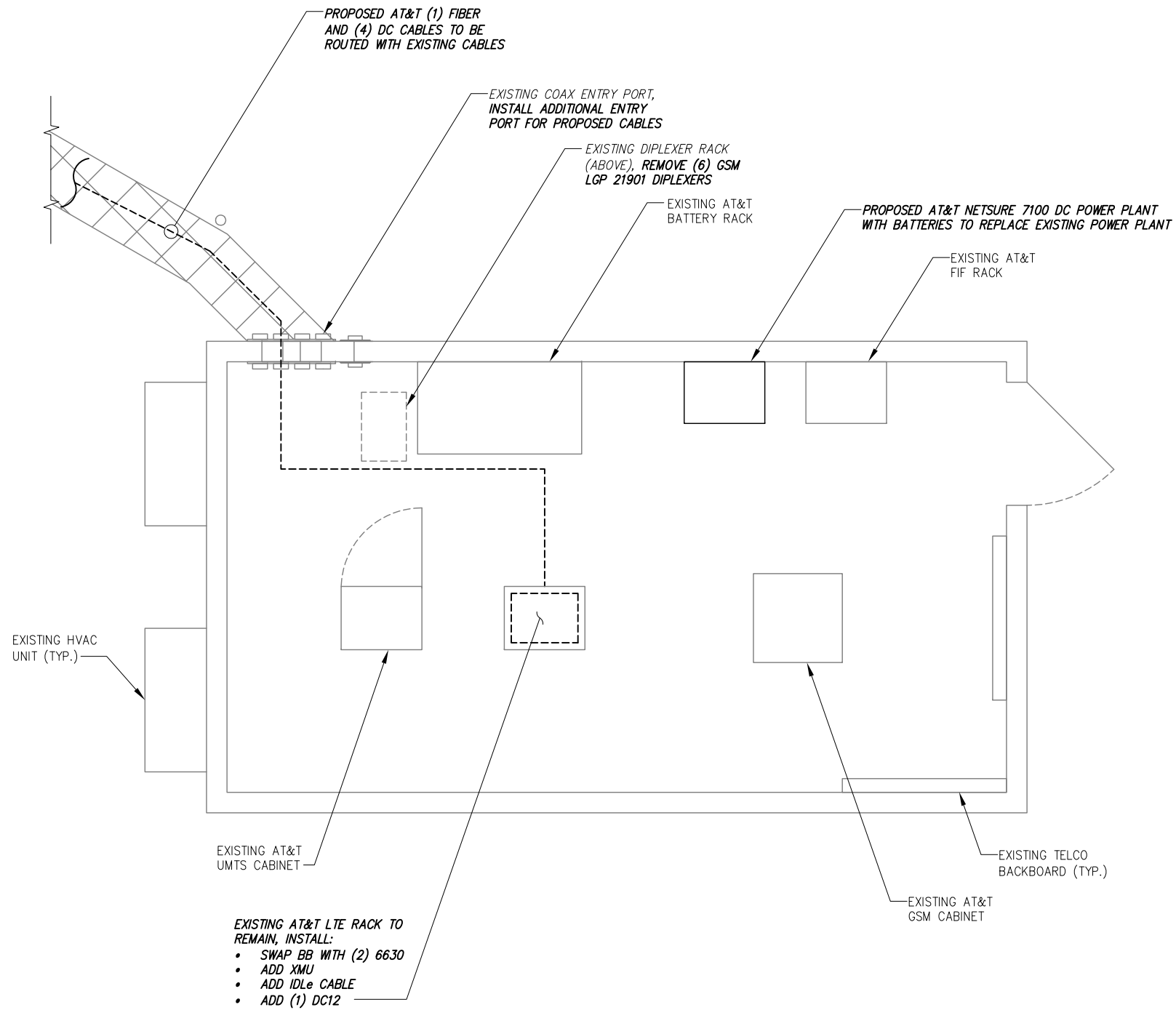
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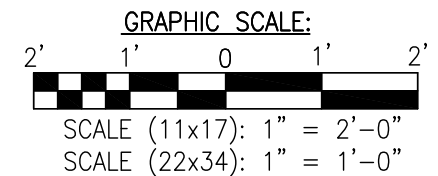
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CD

Drawing Title:
OVERALL SITE PLAN

Drawing Number:
C2

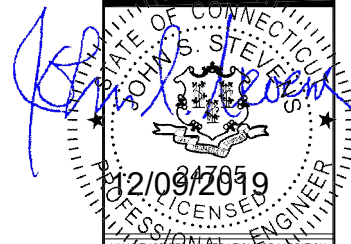


2 ENLARGED EQUIPMENT PLAN
SCALE: AS NOTED



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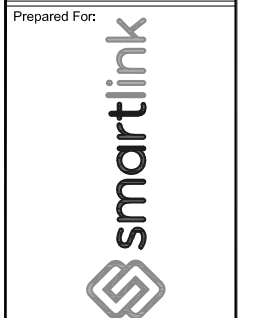
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Drawing Title:
ENLARGED SITE PLAN

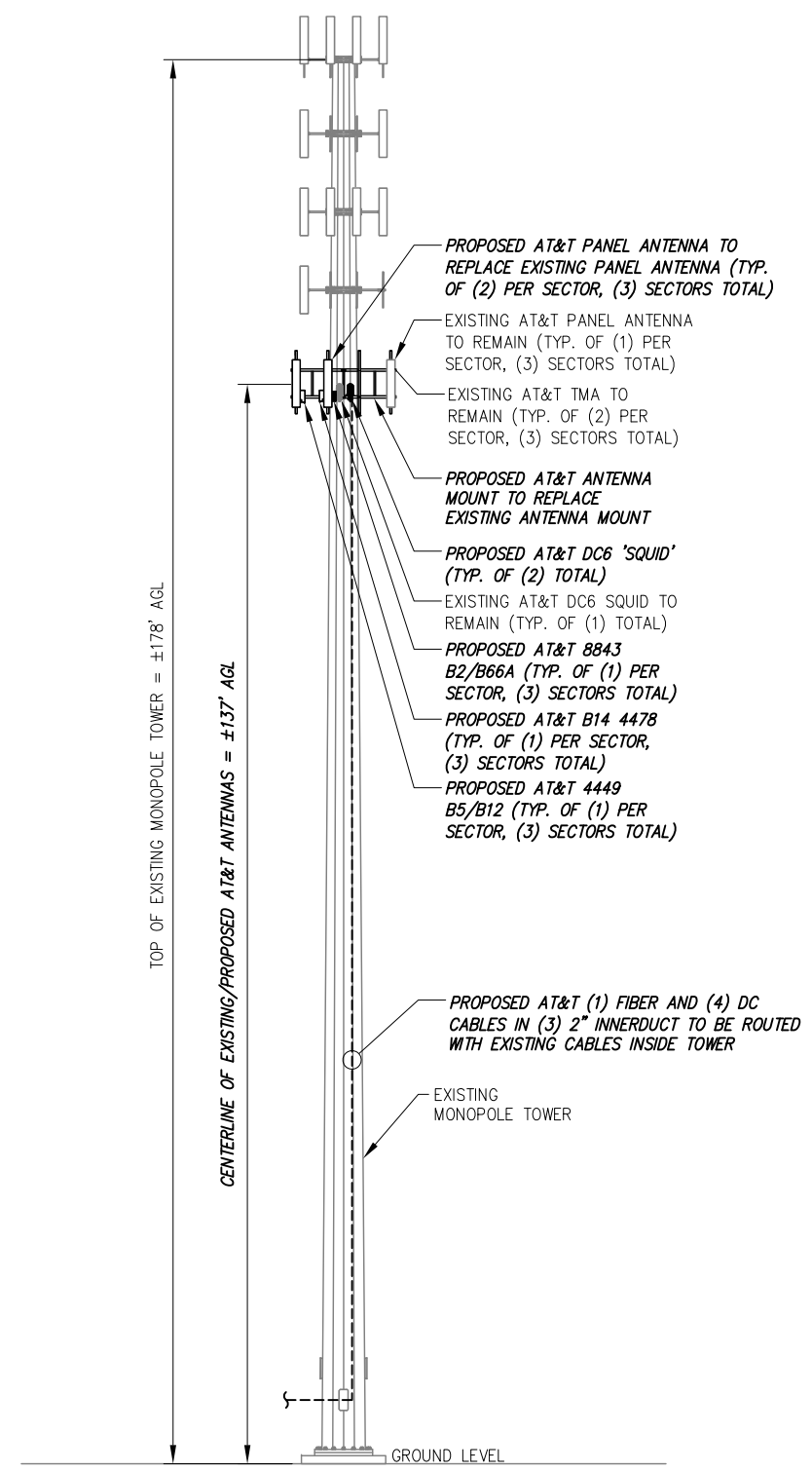
Drawing Number:
C2A

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- FOR ADDITIONAL STRUCTURAL INFORMATION PERTAINING TO THE ANTENNA MOUNT, SEE 'MOUNT ANALYSIS REPORT' COMPLETED BY INFINIGY, DATED 12/09/19. MOUNT TO BE REPLACED PRIOR TO INSTALLATION OF PROPOSED EQUIPMENT.

NOTE:

- 3' MINIMUM SEPARATION BETWEEN ALL LTE ANTENNAS
- 6' MINIMUM SEPARATION BETWEEN 700 BC/700 DE ANTENNAS



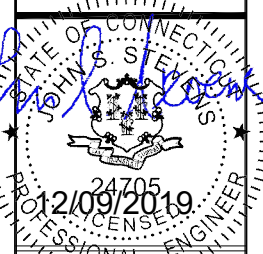
1 ELEVATION VIEW
-- NOT TO SCALE

FINAL ANTENNA CONFIGURATION & CABLE SCHEDULE BASED ON LTE RFDS DATED 10/28/19 V5.00

SECTOR	ANTENNA POSITION	ANTENNA STATUS & TECHNOLOGY	ANTENNA MANF/MODEL	TMA/DIPLEXER	RRUS	AZIMUTH	ANTENNA CL. HEIGHT	CABLE FEEDER		RAYCAP UNIT
								TYPE	LENGTH	
ALPHA	A-1	(E) UMTS 850/1900	POWERWAVE 7770	(2) (E) LGP21401	--	143°	±137'	(2) (E) 1-1/4" COAX CABLES	±155'	(1) (E) DC6 'SQUID' (2) (P) DC6 'SQUID'
	A-2	--	--	--	--	--	--	(2) (E) 1-1/4" COAX CABLES	±155'	
	A-3	(P) LTE 700 B14/1900	CCI DMP65R-BU6DA	--	(1) (P) B14 4478 (1) (P) 8843 B2/B66A	23°	±137'	(1) (E) FIBER CABLE (2) (E) DC CABLES	--	
	A-4	(P) LTE 700/850/AWS/5G 850	CCI DMP65R-BU6DA	--	(1) (P) 4449 B5/B12	23°	±137'	SEE A-3 FOR CABLE INFORMATION	--	
BETA	B-1	(E) UMTS 850/1900	POWERWAVE 7770	(2) (E) LGP21401	--	263°	±137'	(2) (E) 1-1/4" COAX CABLES	±155'	
	B-2	--	--	--	--	--	--	(2) (E) 1-1/4" COAX CABLES	±155'	
	B-3	(P) LTE 700 B14/1900	CCI DMP65R-BU6DA	--	(1) (P) B14 4478 (1) (P) 8843 B2/B66A	143°	±137'	(1) (P) FIBER CABLE (4) (P) DC CABLES	--	
	B-4	(P) LTE 700/850/AWS/5G 850	CCI DMP65R-BU6DA	--	(1) (P) 4449 B5/B12	143°	±137'	SEE A-3 FOR CABLE INFORMATION	--	
GAMMA	G-1	(E) UMTS 850/1900	POWERWAVE 7770	(2) (E) LGP21401	--	23°	±137'	(2) (E) 1-1/4" COAX CABLES	±155'	
	G-2	--	--	--	--	--	--	(2) (E) 1-1/4" COAX CABLES	±155'	
	G-3	(P) LTE 700 B14/1900	CCI DMP65R-BU6DA	--	(1) (P) B14 4478 (1) (P) 8843 B2/B66A	253°	±137'	SEE A-3 FOR CABLE INFORMATION	--	
	G-4	(P) LTE 700/850/AWS/5G 850	CCI DMP65R-BU6DA	--	(1) (P) 4449 B5/B12	253°	±137'	SEE A-3 FOR CABLE INFORMATION	--	

2 AT&T ANTENNA SCHEDULE
-- NOT TO SCALE

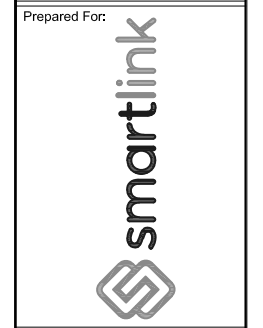
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Drawing Title:
ELEVATION VIEW

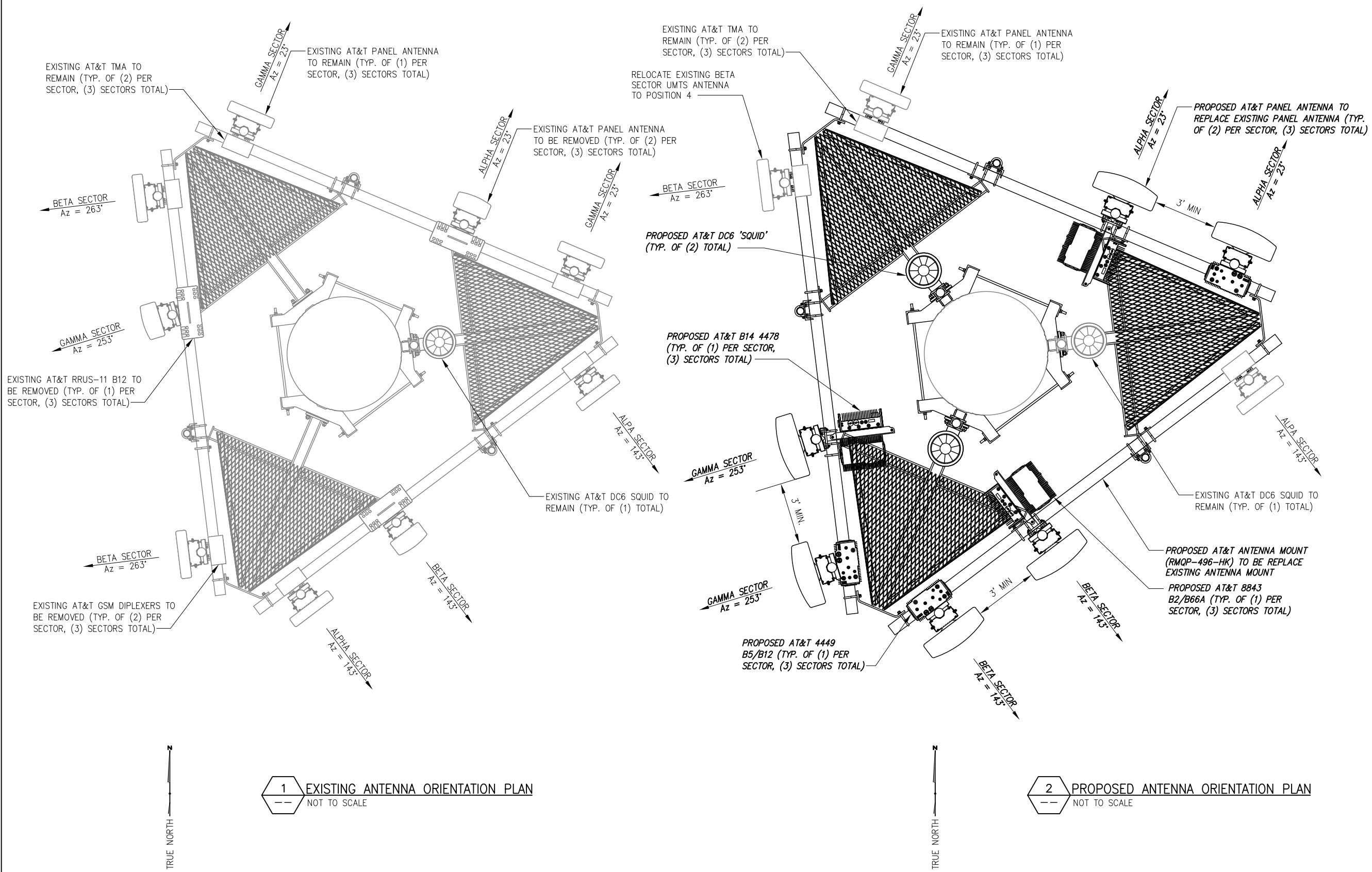
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C3

NOTE:

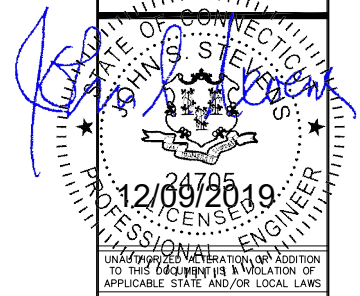
- 3' MINIMUM SEPARATION BETWEEN ALL LTE ANTENNAS
- 6' MINIMUM SEPARATION BETWEEN 700 BC/700 DE ANTENNAS

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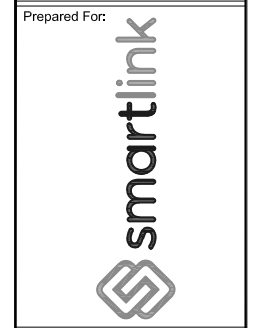
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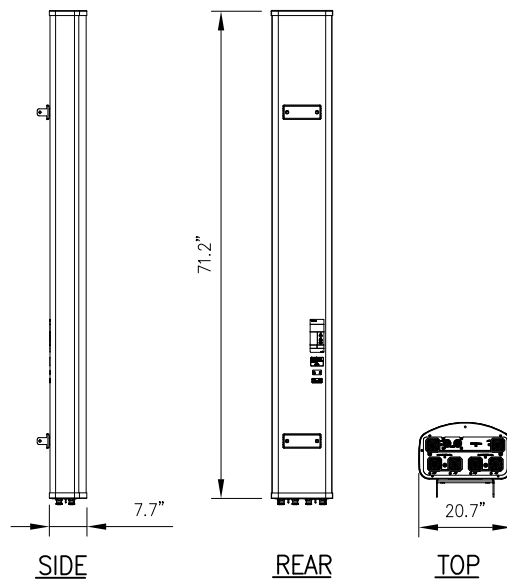
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CD

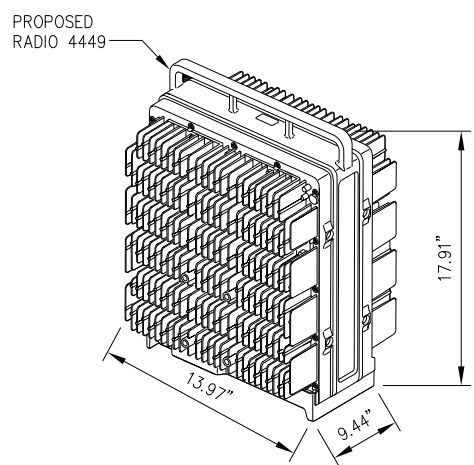
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ANTENNA ORIENTATION PLAN

Drawing Number:
C4



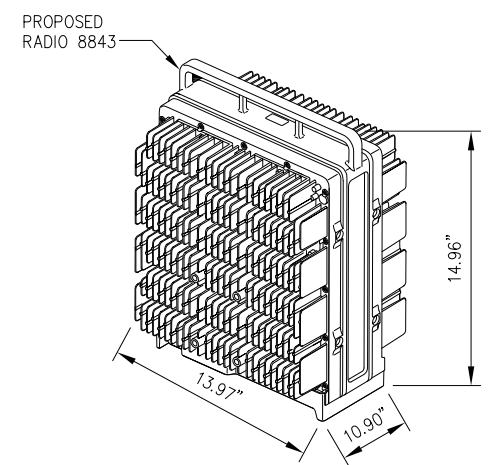
CCI MODEL NO.:	DMP65R-BU6DA
RADOME MATERIAL:	FIBERGLASS, UV RESISTANT
RADOME COLOR:	LIGHT GRAY
DIMENSIONS, HxWxD:	71.2"x20.7"x7.7"
WEIGHT, W/ PRE-MOUNTED BRACKETS:	79.4 LBS
CONNECTOR:	7-16 DIN FEMALE

1 ANTENNA DETAIL
--- NOT TO SCALE



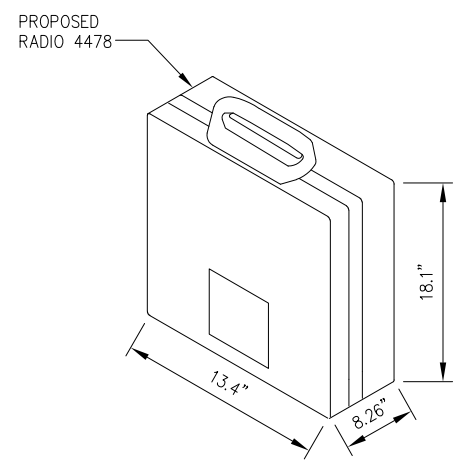
RADIO 4449 SPECIFICATIONS
• HxWxD, (INCHES) : 17.91"x13.97"x9.44"
• WEIGHT (LBS) : 70.54
• COLOR : GRAY

2 ERICSSON RADIO 4449 DETAIL
--- NOT TO SCALE



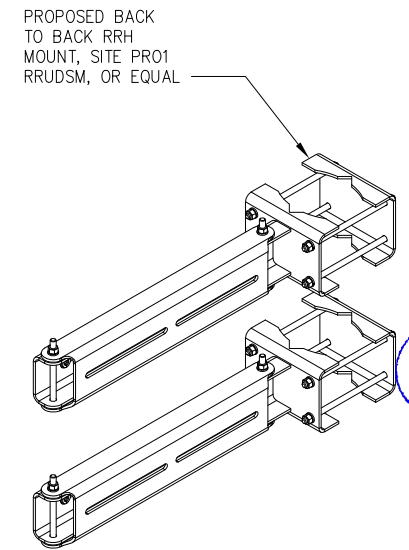
RADIO 8843 SPECIFICATIONS
• HxWxD, (INCHES) : 14.96"x13.97"x10.90"
• WEIGHT (LBS) : 71.87
• COLOR : GRAY

3 ERICSSON RADIO 8843 DETAIL
--- NOT TO SCALE

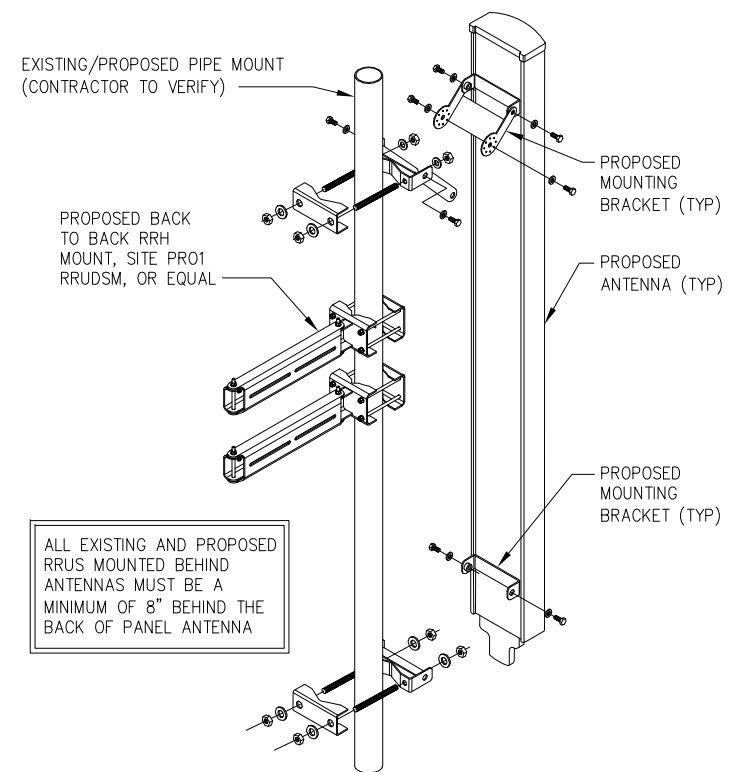


RADIO 4478-B14 SPECIFICATIONS
• HxWxD, (INCHES) : 18.1"x13.4"x8.26"
• WEIGHT (LBS) : 59.5
• COLOR : GRAY
• MOUNTING BRACKET: SXK1250244/1

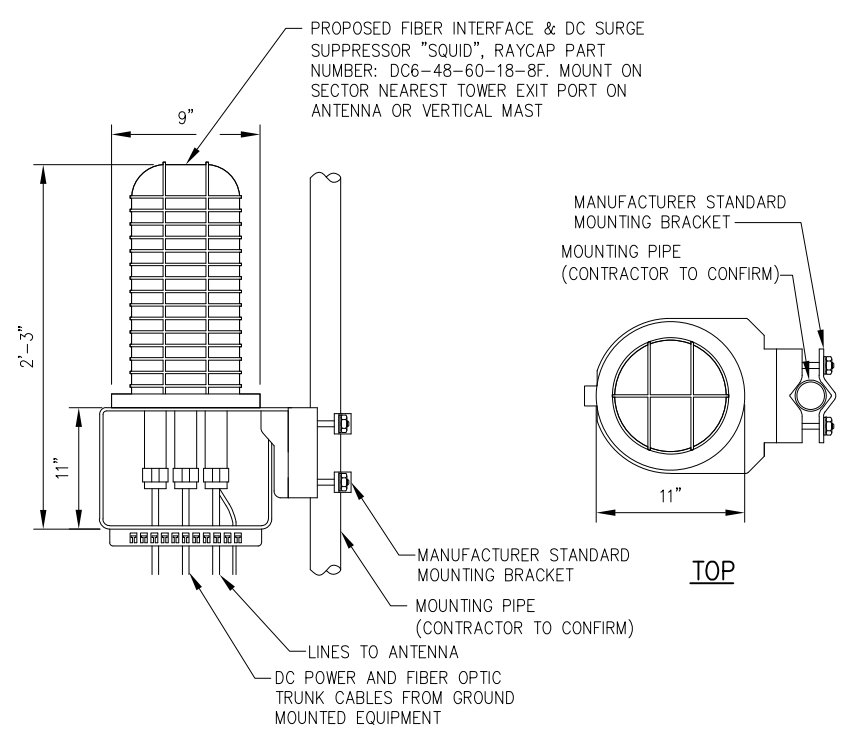
4 ERICSSON RADIO 4478-B14 DETAIL
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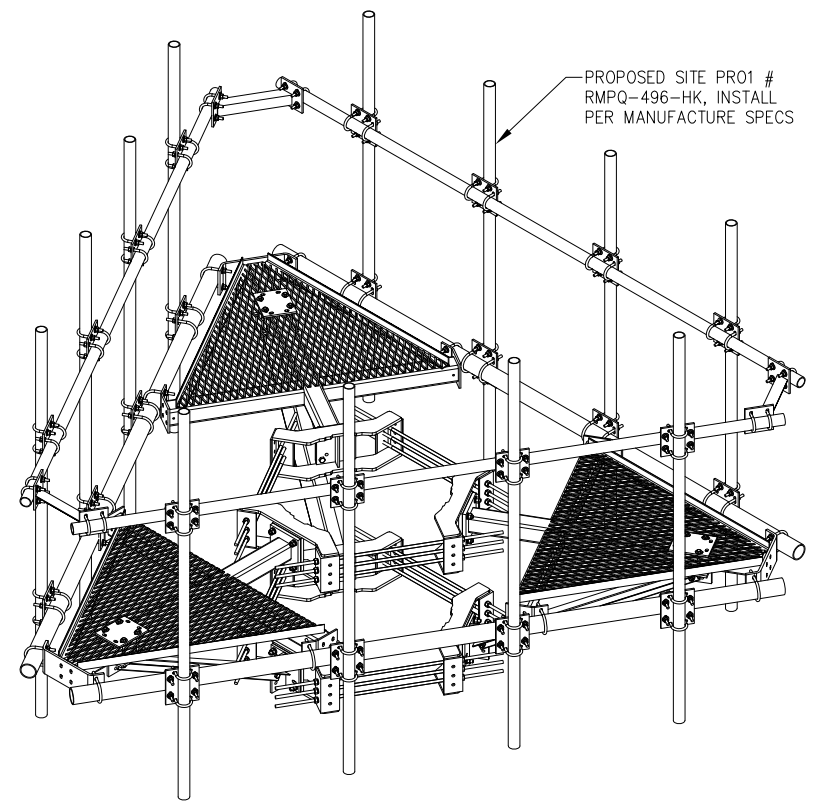
5 BACK TO BACK PIPE MOUNT DETAIL
--- NOT TO SCALE



6 ANTENNA MOUNTING DETAIL
--- NOT TO SCALE

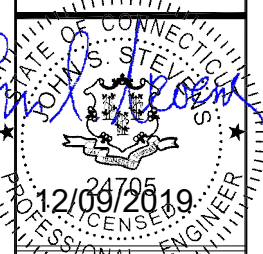


7 SQUID DETAIL
--- NOT TO SCALE



8 PLATFORM MOUNT DETAIL
--- NOT TO SCALE

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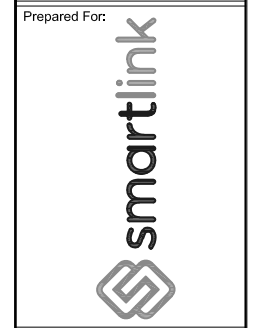
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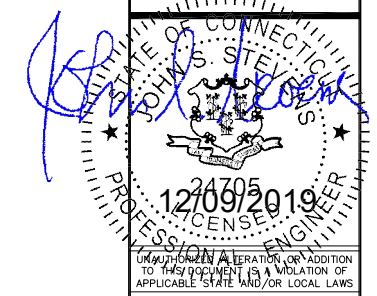
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EQUIPMENT DETAILS

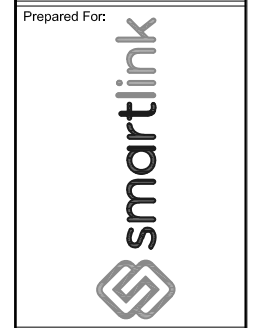
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C5



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Designed: ASW Date: 09/11/19			
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Project Number: 499-006			

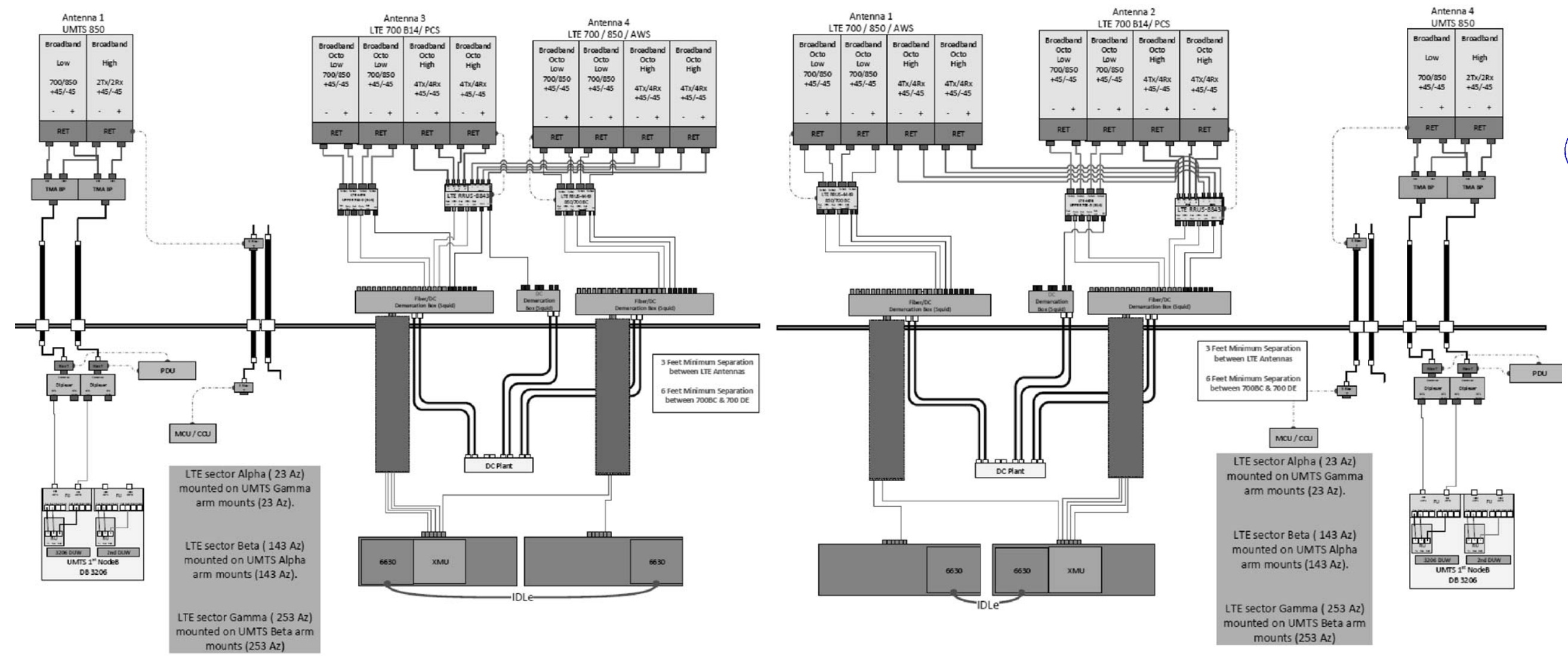
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Drawing Scale:
 AS NOTED
CD
 Date:
 12/09/19

Drawing Title:
PLUMBING DIAGRAM

Drawing Number:
C6



LTE sector Alpha (23 Az)
 mounted on UMTS Gamma
 arm mounts (23 Az).
 LTE sector Beta (143 Az)
 mounted on UMTS Alpha
 arm mounts (143 Az).
 LTE sector Gamma (253 Az)
 mounted on UMTS Beta arm
 mounts (253 Az)

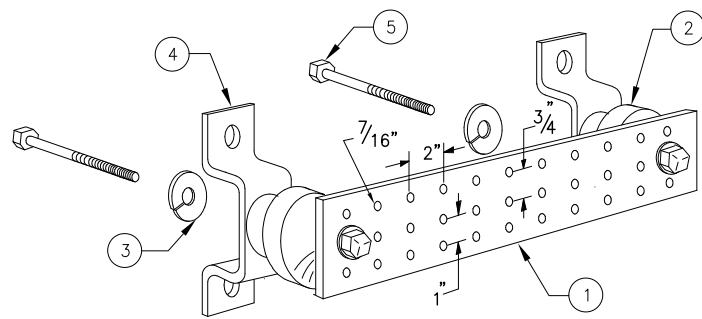
LTE sector Alpha (23 Az)
 mounted on UMTS Gamma
 arm mounts (23 Az).
 LTE sector Beta (143 Az)
 mounted on UMTS Alpha
 arm mounts (143 Az).
 LTE sector Gamma (253 Az)
 mounted on UMTS Beta arm
 mounts (253 Az)

ALPHA/BETA

GAMMA

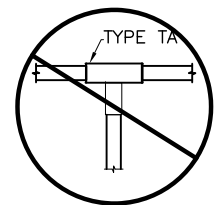
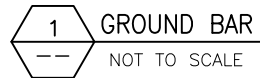
1 PLUMBING DIAGRAM (FINAL CONFIGURATION)
 NOT TO SCALE

*BASED ON LTE RFDS,
 DATED 10/28/19 V5.00

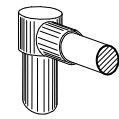


LEGEND

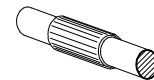
- 1 - SOLID TINNED COPPER GROUND BAR, 1/4"x 4"x 20" MIN., NEWTON INSTRUMENT CO. HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION
- 2 - INSULATORS, NEWTON INSTRUMENT CAT. NO. 3061-4
- 3 - 5/8" LOCKWASHERS, NEWTON INSTRUMENT CO. CAT. NO. 3015-8
- 4 - WALL MOUNTING BRACKET, NEWTON INSTRUMENT CO. CAT NO. A-6056
- 5 - 5/8-11 X 1" H.H.C.S. BOLTS, NEWTON INSTRUMENT CO. CAT NO. 3012-1
- 6 - GROUND BAR SHALL BE SIZED TO ACCOMMODATE ALL GROUNDING CONNECTIONS REQUIRED PLUS PROVIDE 50% SPARE CAPACITY
- 7 - GROUND BARS SHALL NEITHER BE FIELD FABRICATED NOR NEW HOLES DRILLED
- 8 - GROUND LUGS SHALL MATCH THE HOLE SPACING ON THE BAR
- 9 - HARDWARE DIAMETER SHALL BE MINIMUM 3/8"



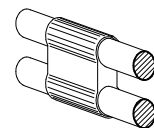
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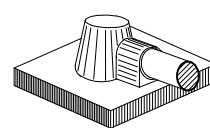
TYPE GR



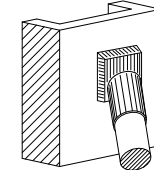
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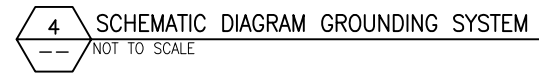
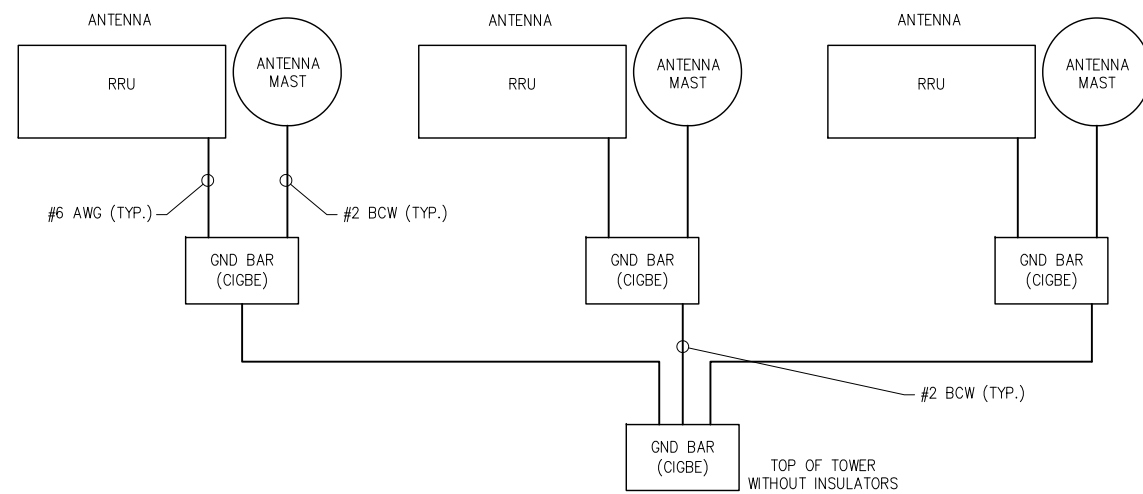
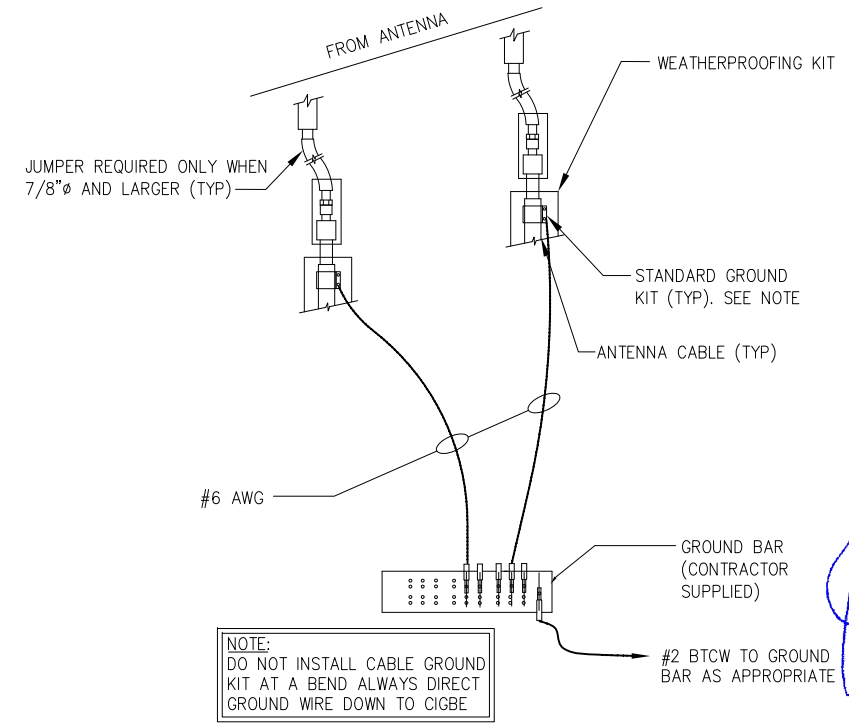
TYPE PH



TYPE KA



TYPE VS



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 Office # (518) 690-0790
 Fax # (518) 690-0793

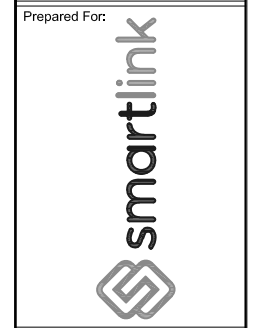


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4	REVISED FOR PERMIT	BMM	12/09/19
3	REVISED FOR PERMIT	BMM	11/26/19
2	ISSUED FOR PERMIT	ASW	11/06/19
1	ISSUED FOR PERMIT	ASW	10/10/19
0	ISSUED FOR REVIEW	BMM	09/11/19
No.	Submittal / Revision	App'd	Date
Drawn: BMM Date: 09/11/19			
Designed: ASW Date: 09/11/19			
Checked: A.D. Date: 09/11/19			

Project Number: 499-006

Project Title:
 ANDOVER EAST
 CTL01122
 FA# 10035387
 104 BUNKER HILL ROAD
 ANDOVER, CT 06232



Drawing Scale: AS NOTED
 Date: 12/09/19
CD

Drawing Title:
GROUNDING DETAILS

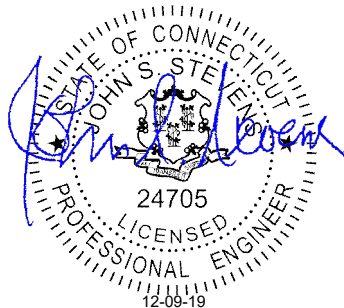
Drawing Number:
C7

Mount Analysis Report

December 9, 2019

Site Name	Andover East
Site Number	CTL01122
FA Number	10035387
PACE Number	MRCTB042111 / MRCTB025450 / MRCTB025510 MRCTB042112 / MRCTB042130
PTN Number	2051A0QB17 / 2051A0DB5G / 2051A0DB62 2051A0QB1P / 2051A0QAYX
Infinigy Job Number	1106-A0001-B
Client	Smartlink
Carrier	AT&T Mobility
Site Location	104 Bunker Hill Road Andover, CT 6232 Tolland County 41.737825 N NAD83 72.349832 W NAD83
Mount Centerline EL.	137.0 ft
Mount Type	Platform
Structural Usage Ratio	50.7%
Overall Result	Pass
Note	SitePro1 RMQP-496-HK to be installed prior to installation of proposed appurtenances.

Upon reviewing the results of this analysis, it is our opinion that the proposed mount meets the specified TIA code requirements. The mounts and connections for the proposed carrier are therefore deemed adequate to support the final loading configuration as listed in this report.



Thomas Marr
Project Engineer I

Contents

Introduction.....	3
Supporting Documentation.....	3
Analysis Code Requirements.....	3
Conclusion.....	3
Final Configuration Loading.....	4
Mount Usages.....	4
Mount Connections Usages.....	4
Assumptions and Limitations.....	5
Calculations.....	Appended

Introduction

Infinigy Engineering has been requested to perform a mount analysis on the proposed AT&T Mobility mounts. All referenced supporting documents have been obtained from the client and are assumed to be accurate and applicable to this site. The mount was analyzed using RISA-3D Version 17.0.4 analysis software.

Supporting Documentation

RFDS	RFDS ID #3084503, dated October 28, 2019
Construction Drawings	Infinigy Engineering, PLLC. Job #499-006, dated November 26, 2019
Site Photos	Smartlink Provided, dated June 09, 2019
Mount Specifications	SitePro1 P/N: RMQP-496-HK, dated July 14, 2014

Analysis Code Requirements

Wind Speed	130 mph (3-Second Gust)
Wind Speed w/ Ice	50 mph (3 Second Gust) w/ 1.5" Ice
TIA Revision	ANSI/TIA-222-H
Adopted IBC	2018 IBC / 2018 Connecticut State Building Code
Structure Class	II
Exposure Category	B
Topographic Category	1
Spectral Response	$S_s = 0.193 \text{ g}$, $S_1 = 0.055 \text{ g}$
Site Class	D - Stiff Soil
HMSL	539 ft.

Conclusion

Upon reviewing the results of this analysis, it is our opinion that the proposed mount meets the specified TIA code requirements. The mount and connections are therefore deemed adequate to support the existing and proposed loading as listed in this report.

If you have any questions, require additional information, or actual conditions differ from those as detailed in this report please contact me via the information below:

Thomas Marr
 Project Engineer I | **INFINIGY**
 1033 Watervliet Shaker Road, Albany, NY 12205
 (O) (518) 690-0802
 tmarr@infinigy.com | www.infinigy.com

Final Configuration Loading

Mount CL (ft)	Vert. O/S (ft)	Rad. HT (ft)	Horiz. O/S (ft) ⁽¹⁾	Qty	Appurtenance ⁽²⁾	Carrier
137.0	0.0	137.0	1.8, 11.8	3	POWERWAVE 7770	AT&T
			1.8, 5.1 8.0, 11.8	6	CCI DMP65R-BU6DA	
			5.1, 8.0	3	ERICSSON B14 4478	
			1.8, 8.0	3	ERICSSON 4449 B5/B12	
			1.8, 8.0	3	ERICSSON 8843 B2/B66A	
			1.8, 11.8	6	POWERWAVE LGP21401	
			--	3	RAYCAP DC6-48-60-18-8F	

(1) Horizontal Offset is defined as the distance from the left most edge of the mount face horizontal when viewed facing the tower

(2) Raycap assumed to be installed directly on tower

Mount Usages

Horizontals	34.0%	Pass
Standoffs	22.9%	Pass
Mount Pipes	50.7%	Pass
Bracing	31.7%	Pass
Bolts	7.1%	Pass
Max Usage	50.7%	Pass

Mount Connection Usages

Reaction Data	Design Capacity*	Analysis Reactions	Results
Max Tension (lbs.)	20340.15	1438.43	7.1%
Max Shear (lbs.)	12425.24	88.22	0.7%
Unity Check	-	-	0.5%

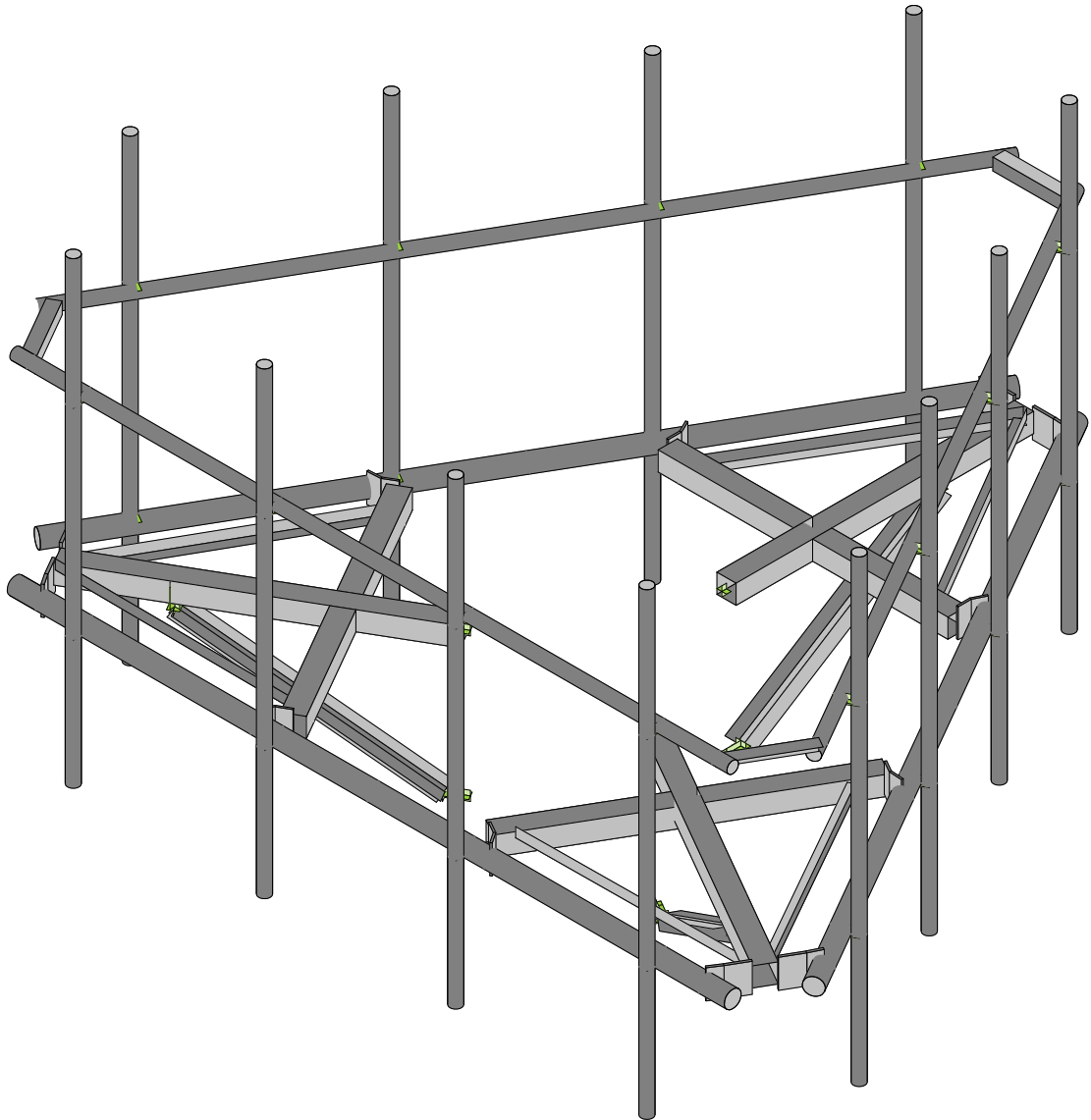
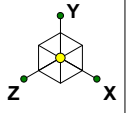
*Assumed (1) 0.625" A325 Bolts, Total (4) per Connection. Contractor to field verify prior to proposed installation.

Assumptions and Limitations

Our structural calculations are completed assuming all information provided to Infinigy Engineering is accurate and applicable to this site. For the purposes of calculations, we assume an overall structure condition of “like new” and all members and connections to be free of corrosion and/or structural defects. The structure owner and/or contractor shall verify the structure’s condition prior to installation of any proposed equipment. If actual conditions differ from those described in this report Infinigy Engineering should be notified immediately to complete a revised evaluation.

Our evaluation is completed using standard TIA, AISC, ACI, and ASCE methods and procedures. Our structural results are proprietary and should not be used by others as their own. Infinigy Engineering is not responsible for decisions made by others that are or are not based on our supplied assumptions and conclusions.

This report is an evaluation of the proposed carriers mount structure only and does not reflect adequacy of the existing tower, other mounts, or coax mounting attachments. These elements are assumed to be adequate for the purposes of this analysis and are assumed to have been installed per their manufacturer requirements.

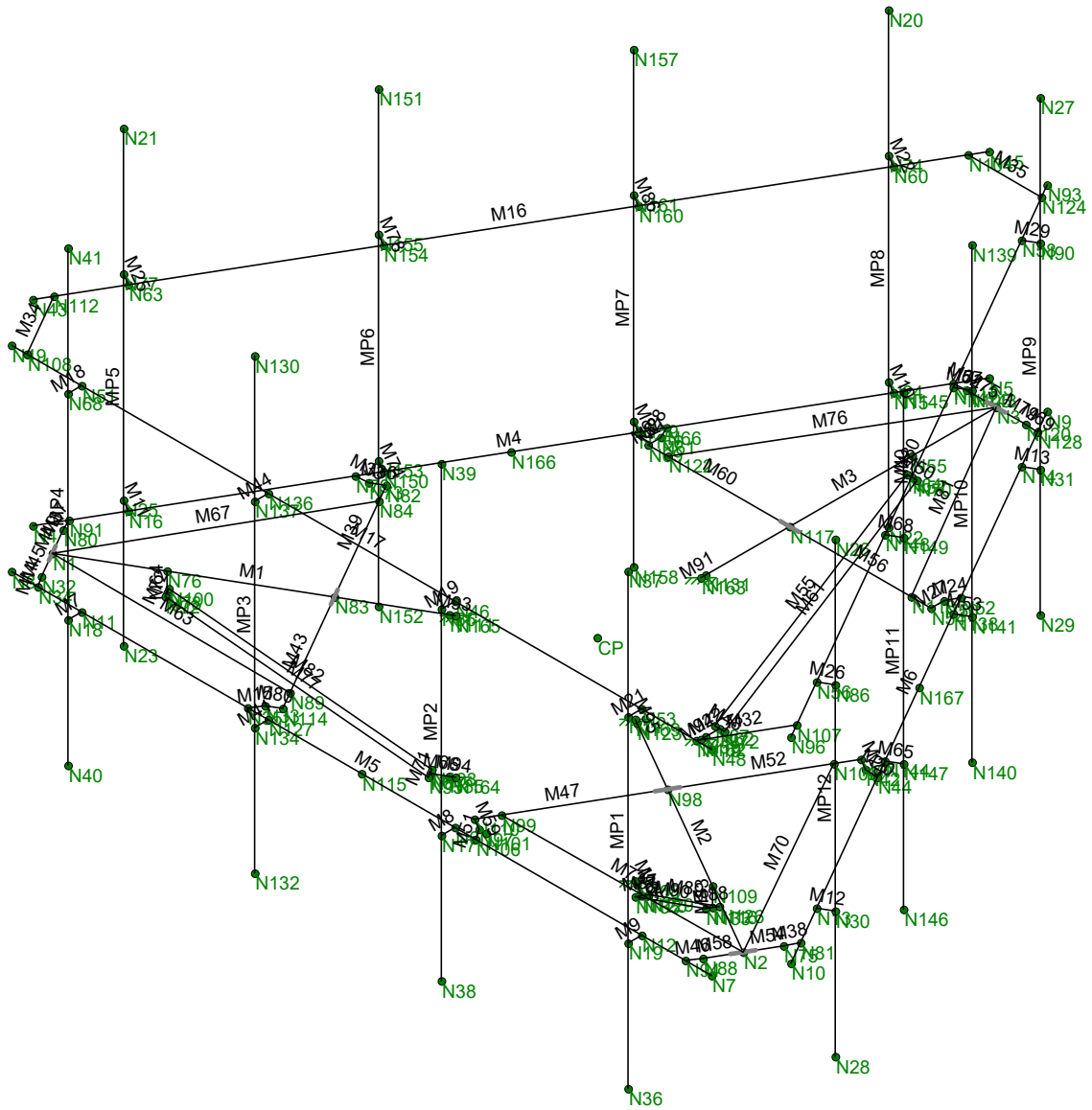
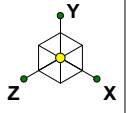


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Andover East

Proposed Configuration
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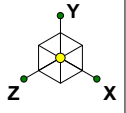


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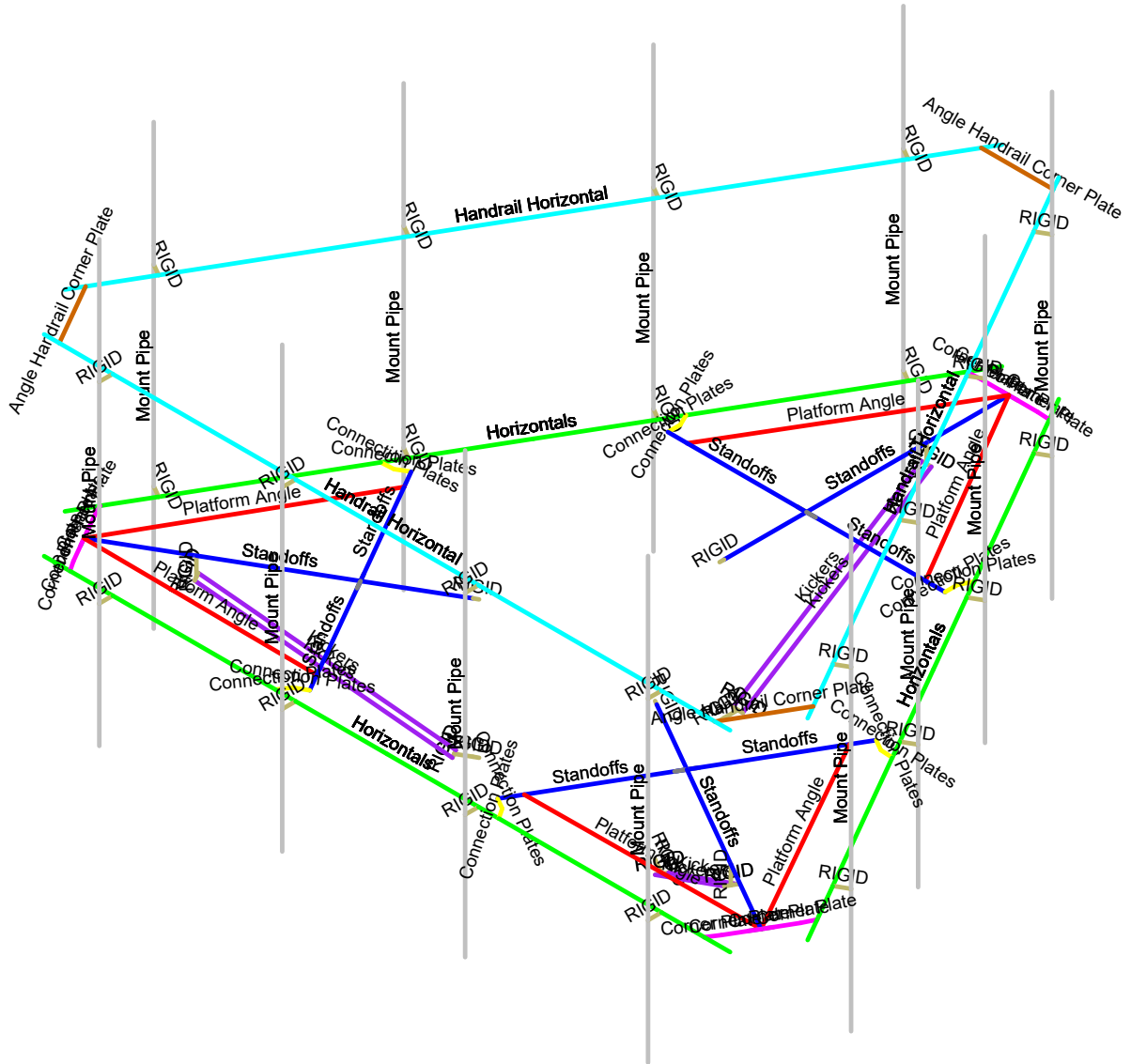
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Wire Frame
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Section Sets	
█	Standoffs
█	Horizontals
█	Platform Angle
█	Mount Pipe
█	Corner Plate
█	Handrail Horizontal
█	Angle Handrail Corner Plate
█	Connection Plates
█	Kickers
█	RIGID

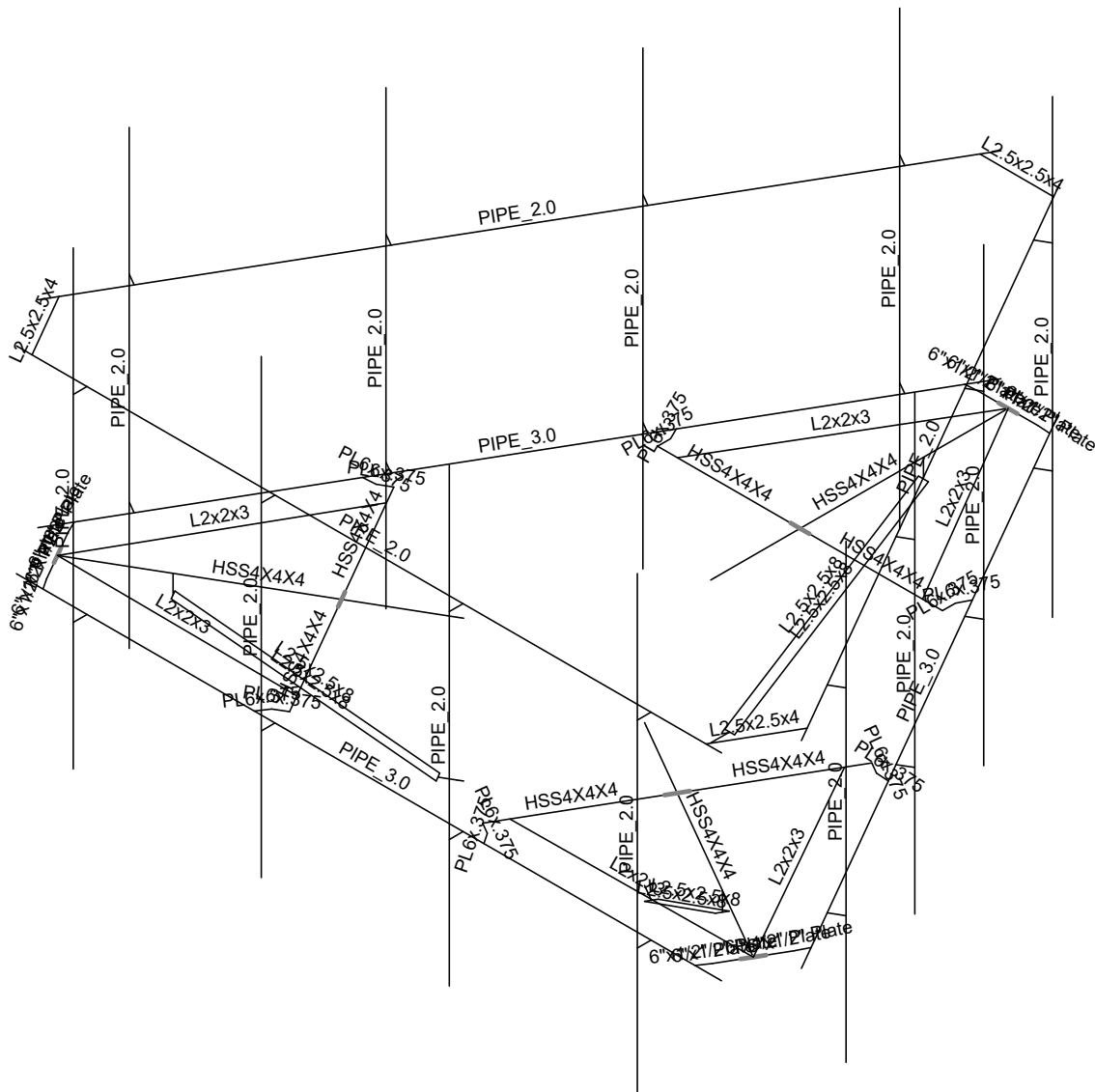
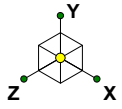


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Section Sets
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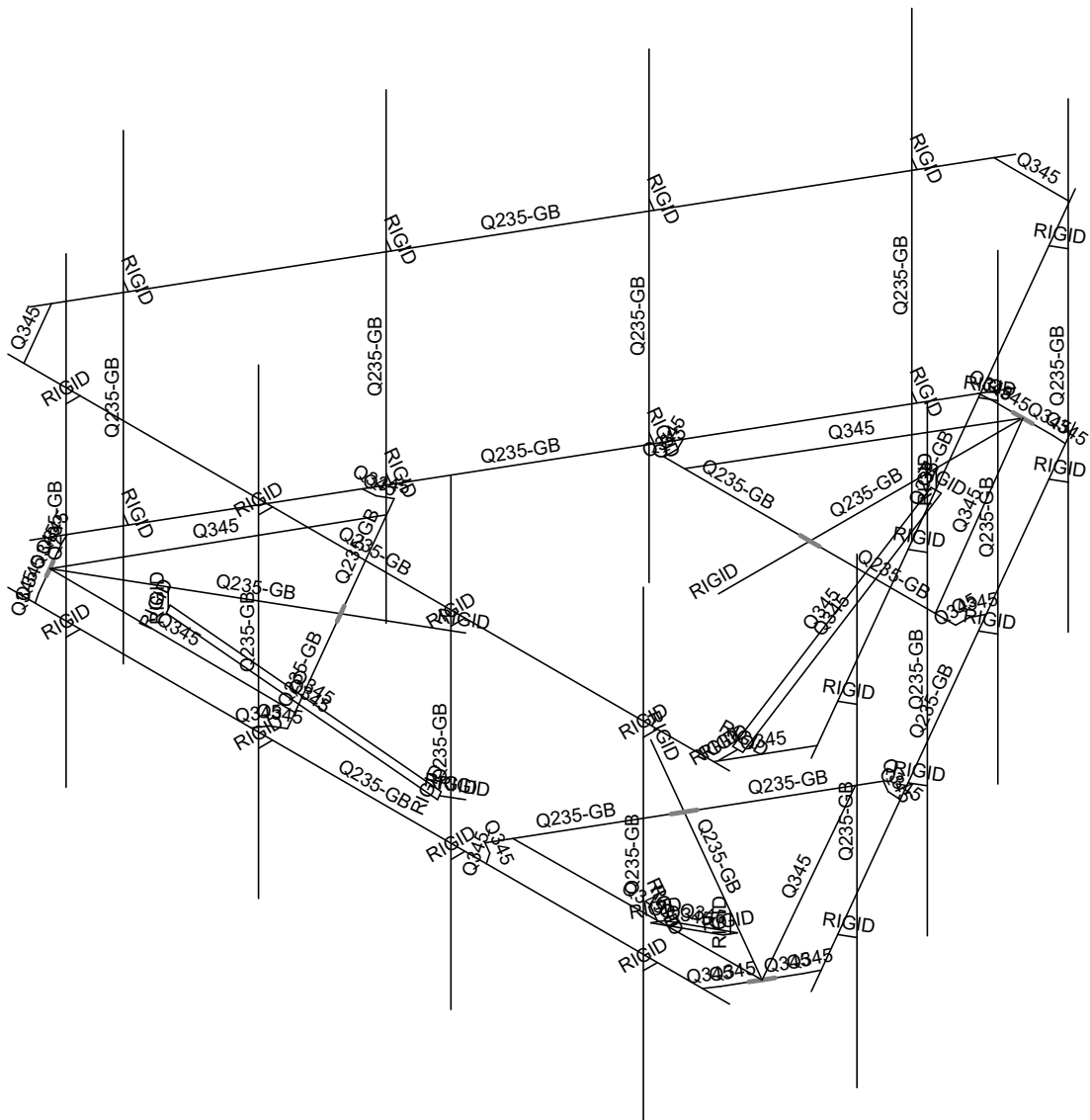
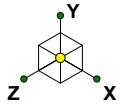
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Member Shape

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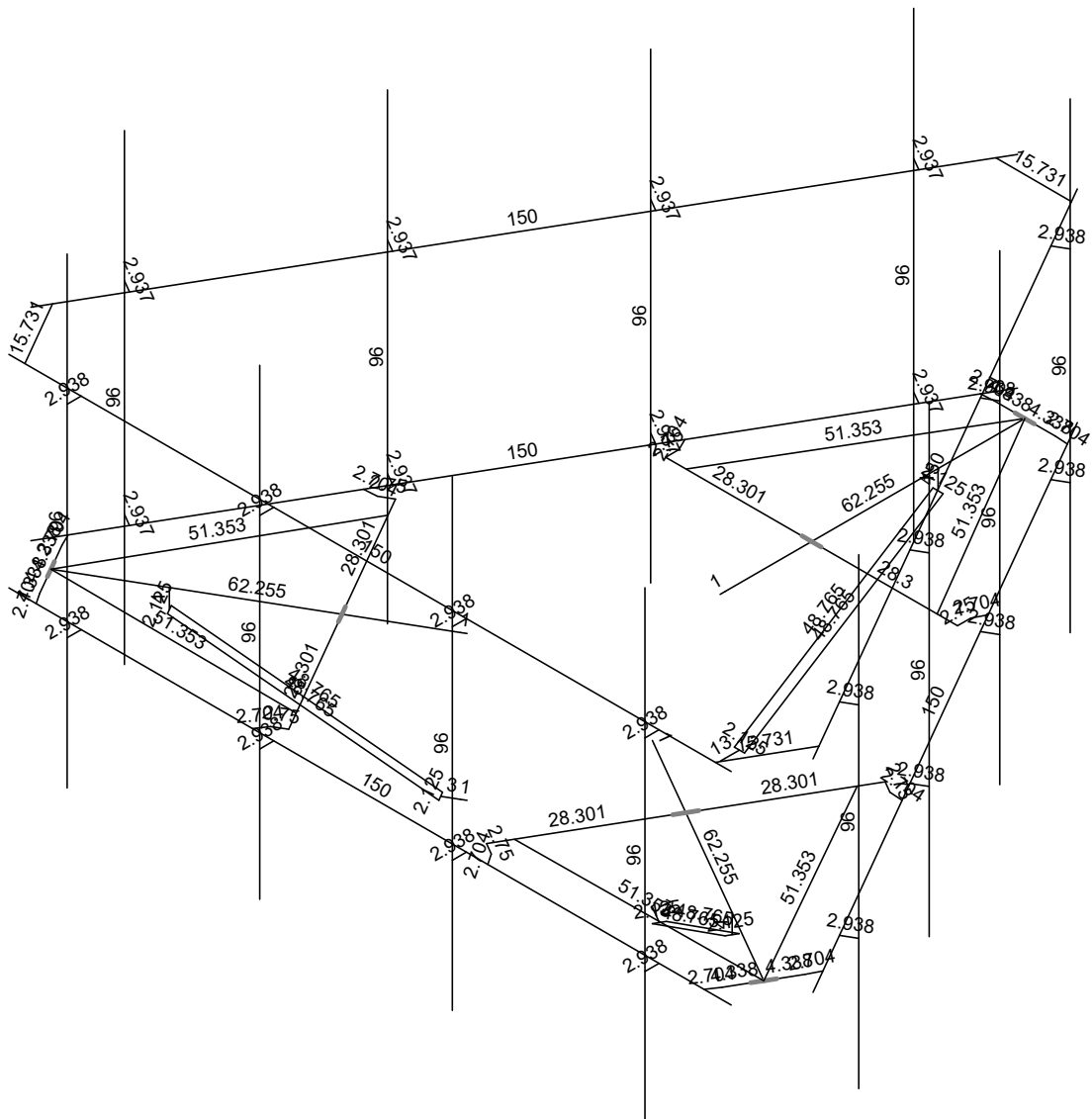
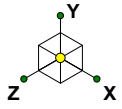
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Material Sets

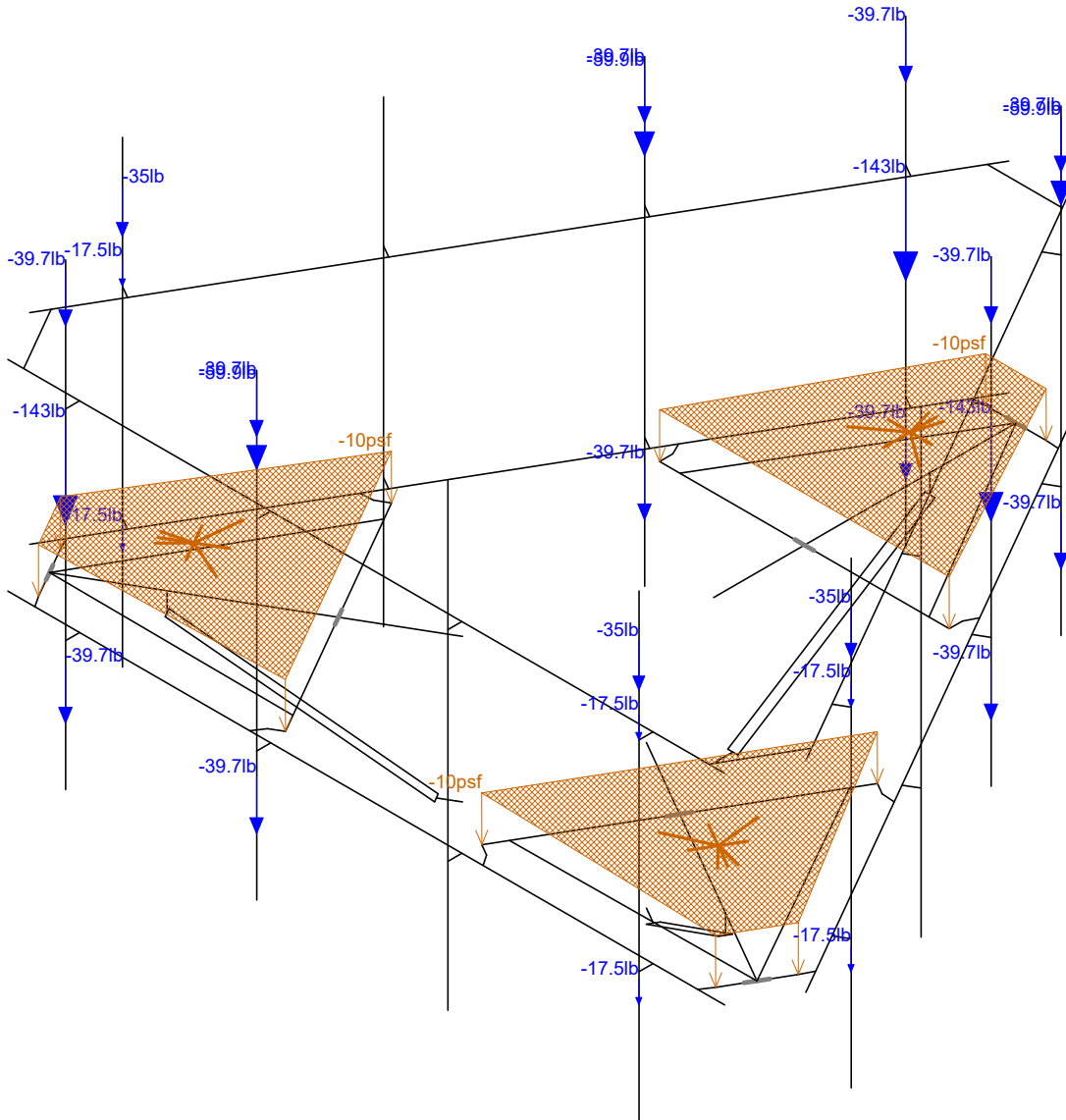
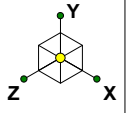
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Member Length (in) Displayed
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Loads: BLC 1, Self Weight
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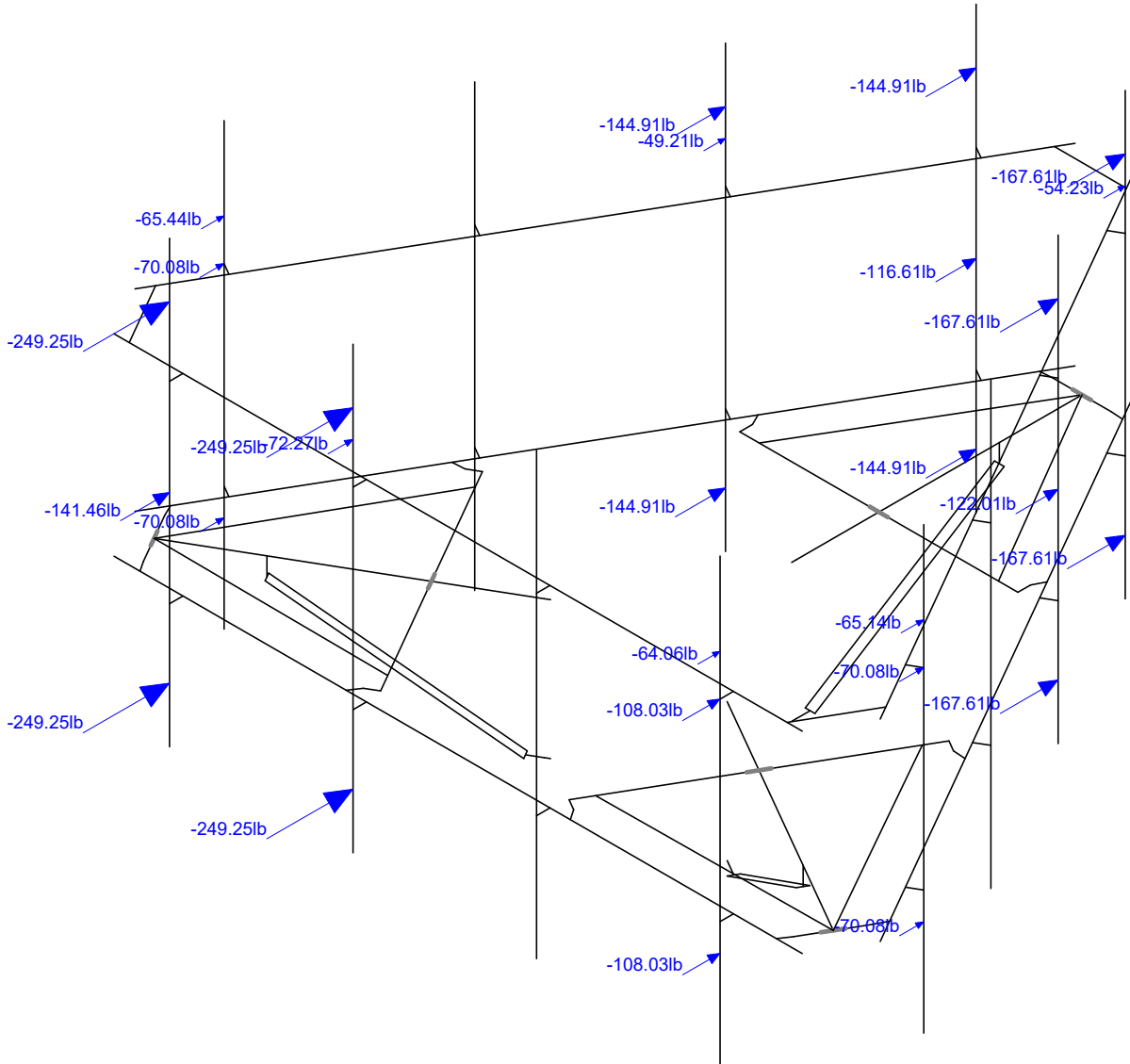
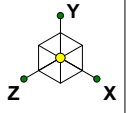
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Self Weight

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Loads: BLC 2, Wind Load AZI 0
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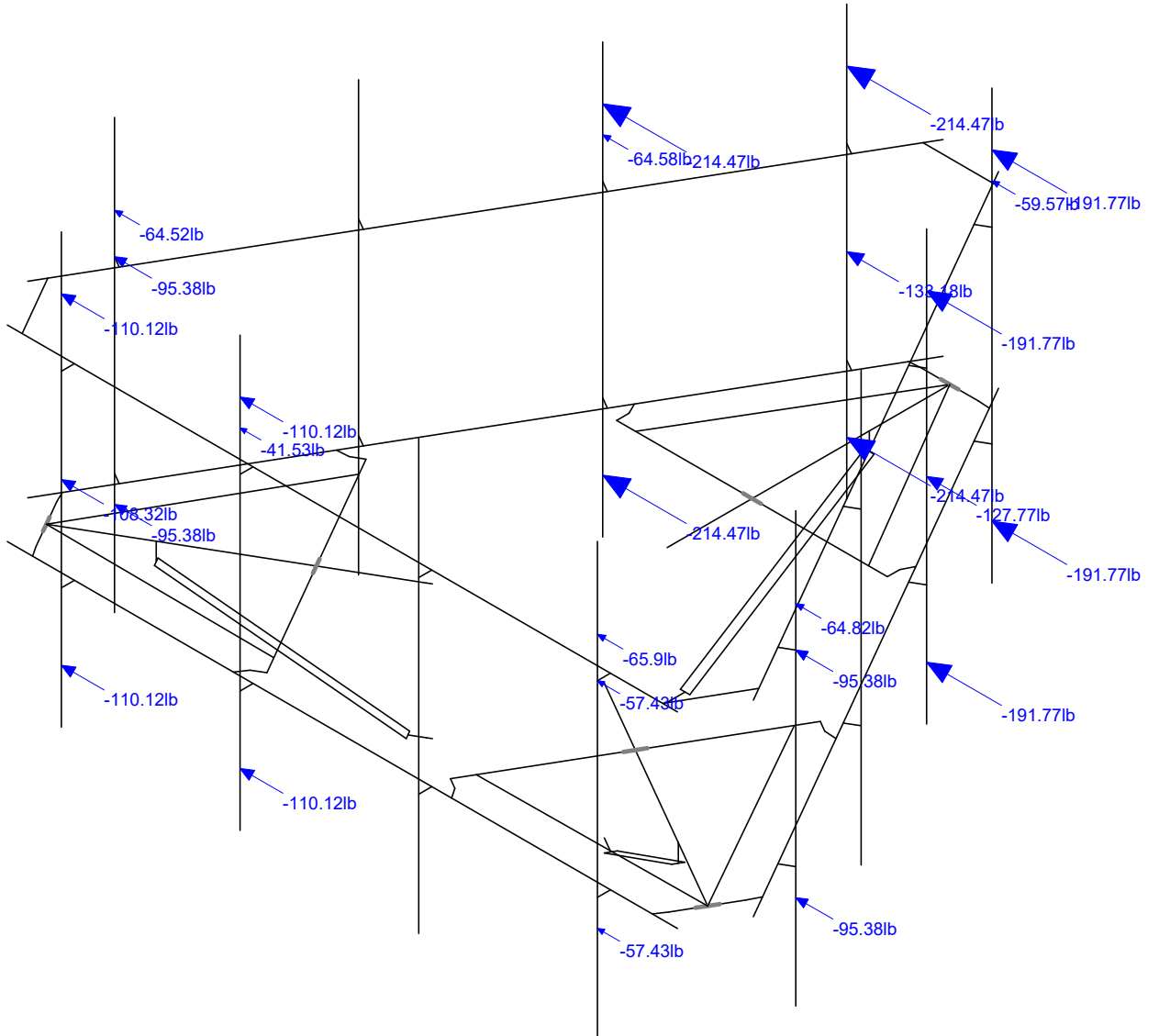
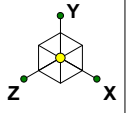
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Wind Load AZI 000

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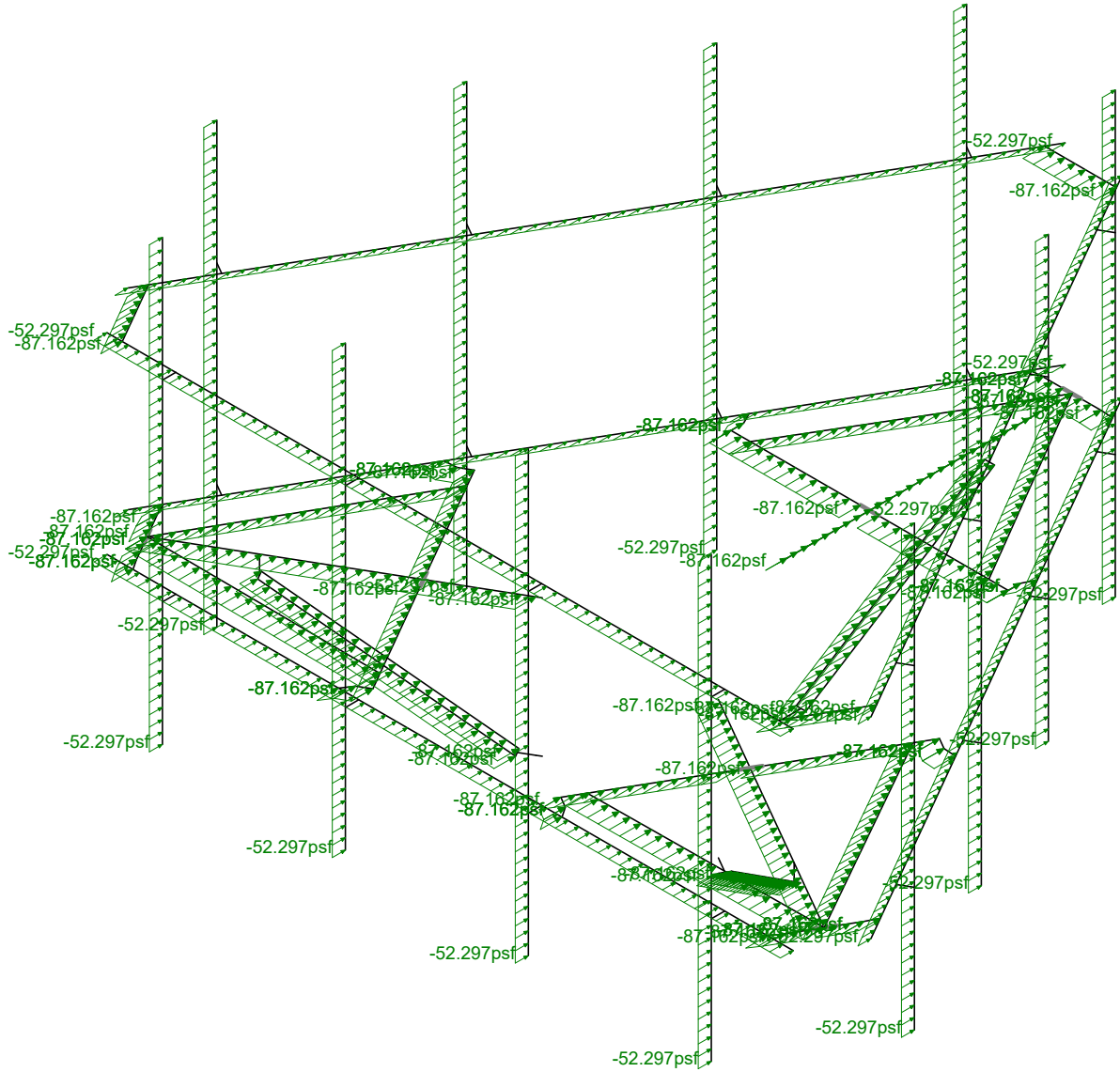
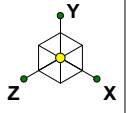


Loads: BLC 5, Wind Load AZI 90
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Wind Load AZI 090
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Loads: BLC 14, Distr. Wind Load Z
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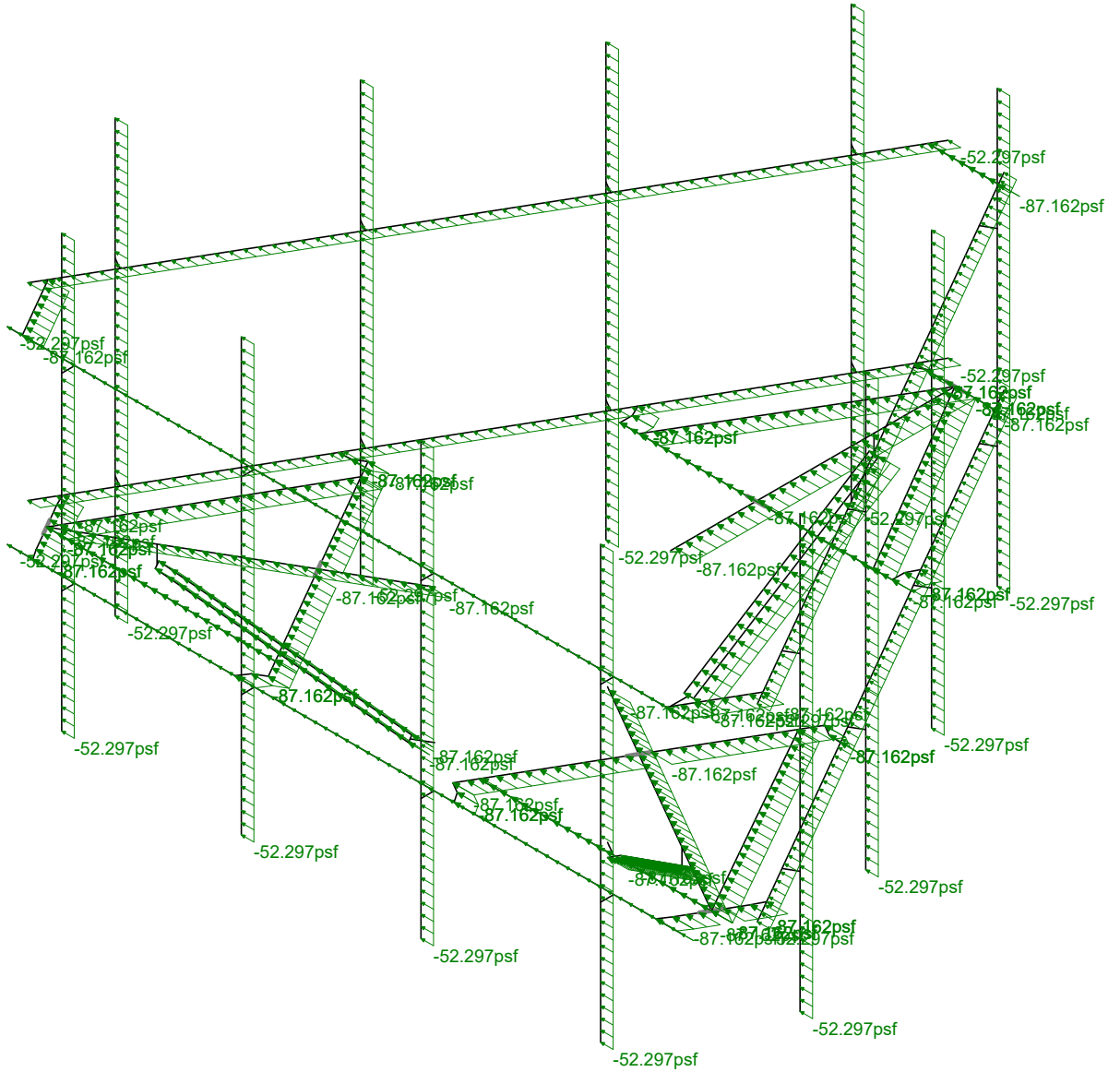
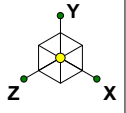
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Distr Wind Load AZI 000

Dec 9, 2019 at 2:59 PM

RMQP-496-HK_loaded.r3d



Loads: BLC 15, Distr. Wind Load X
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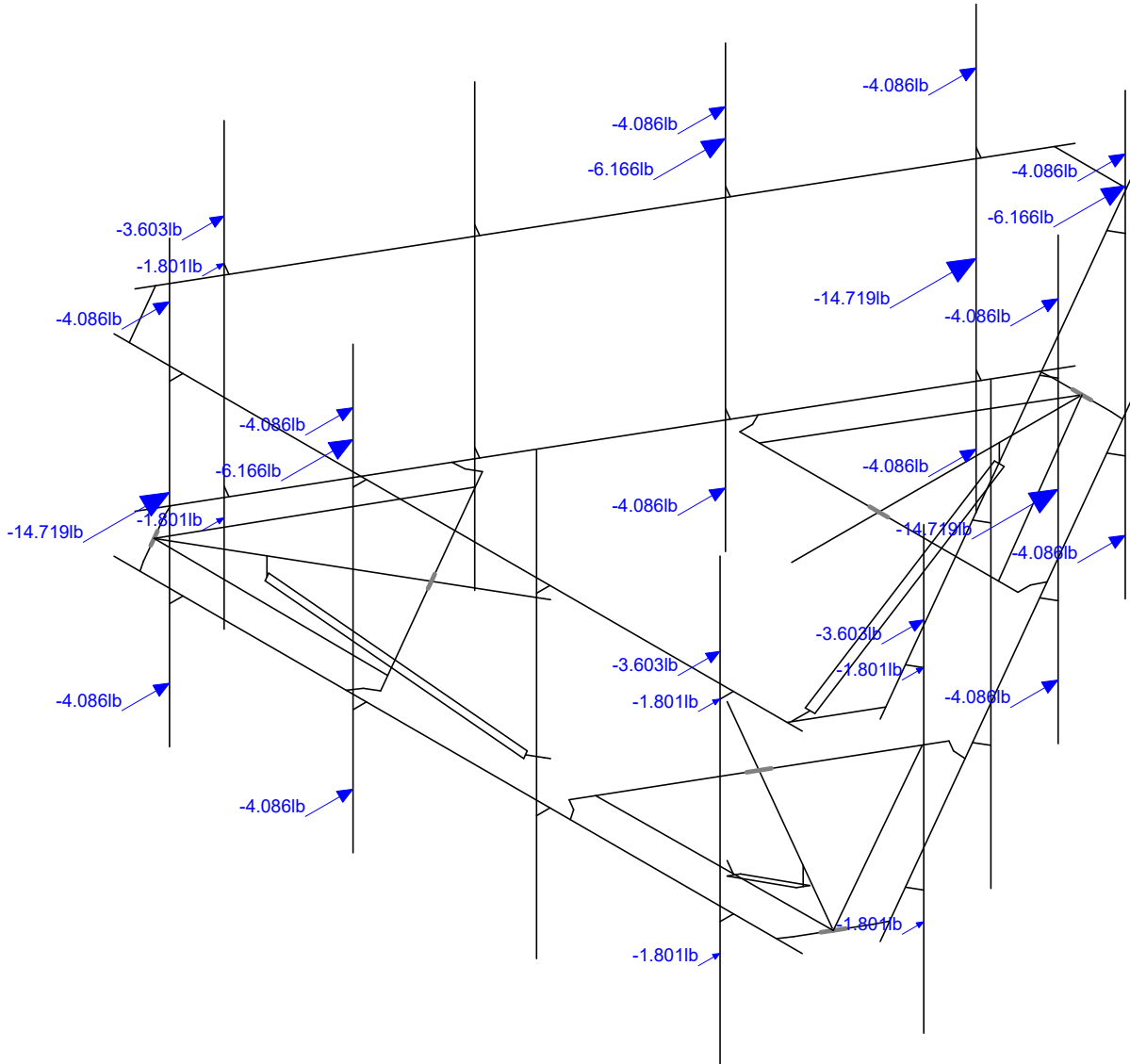
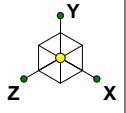
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Andover East

Distr Wind Load AZI 090

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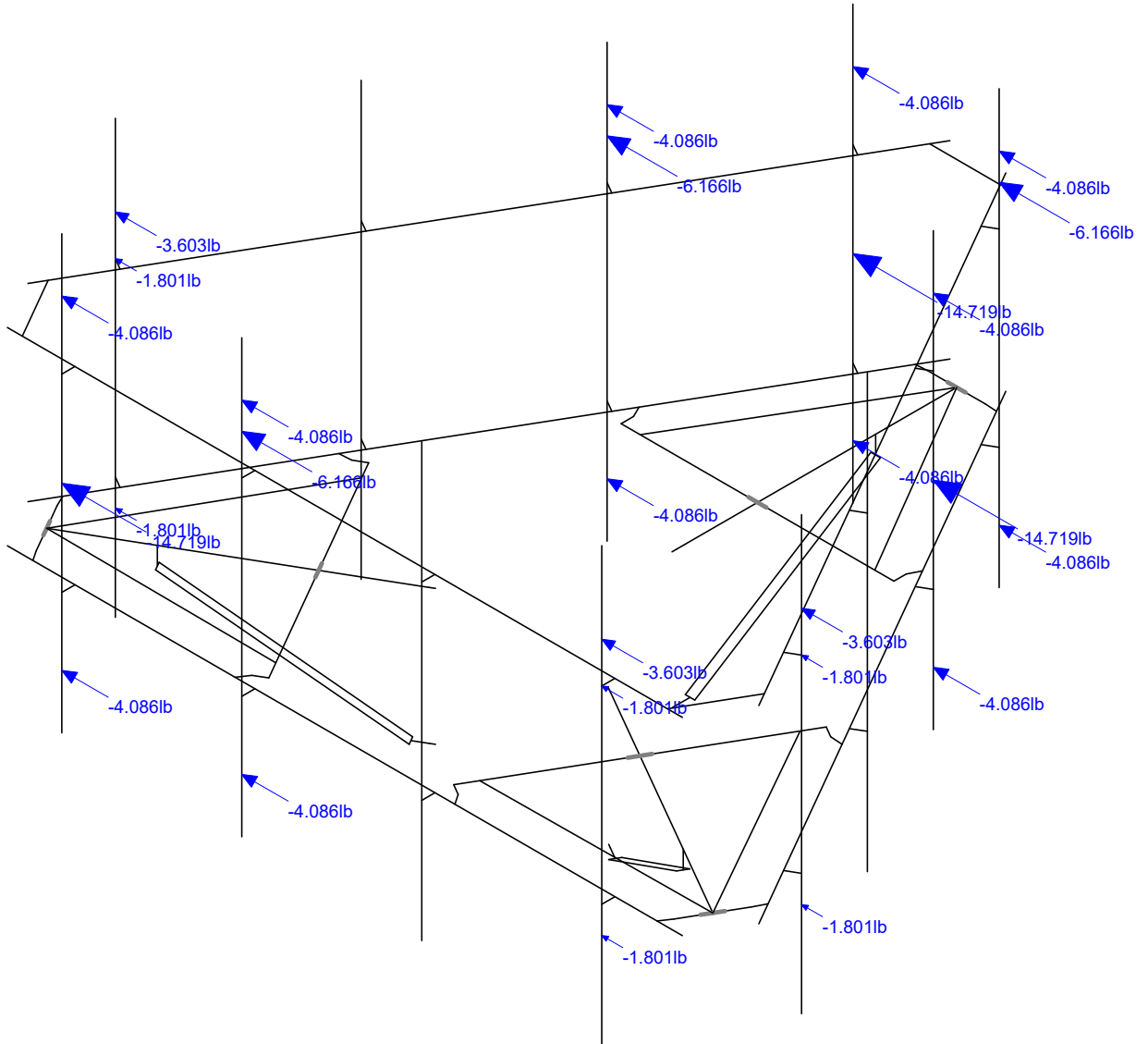
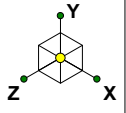


Loads: BLC 31, Seismic Load Z
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Seismic Load AZI 000
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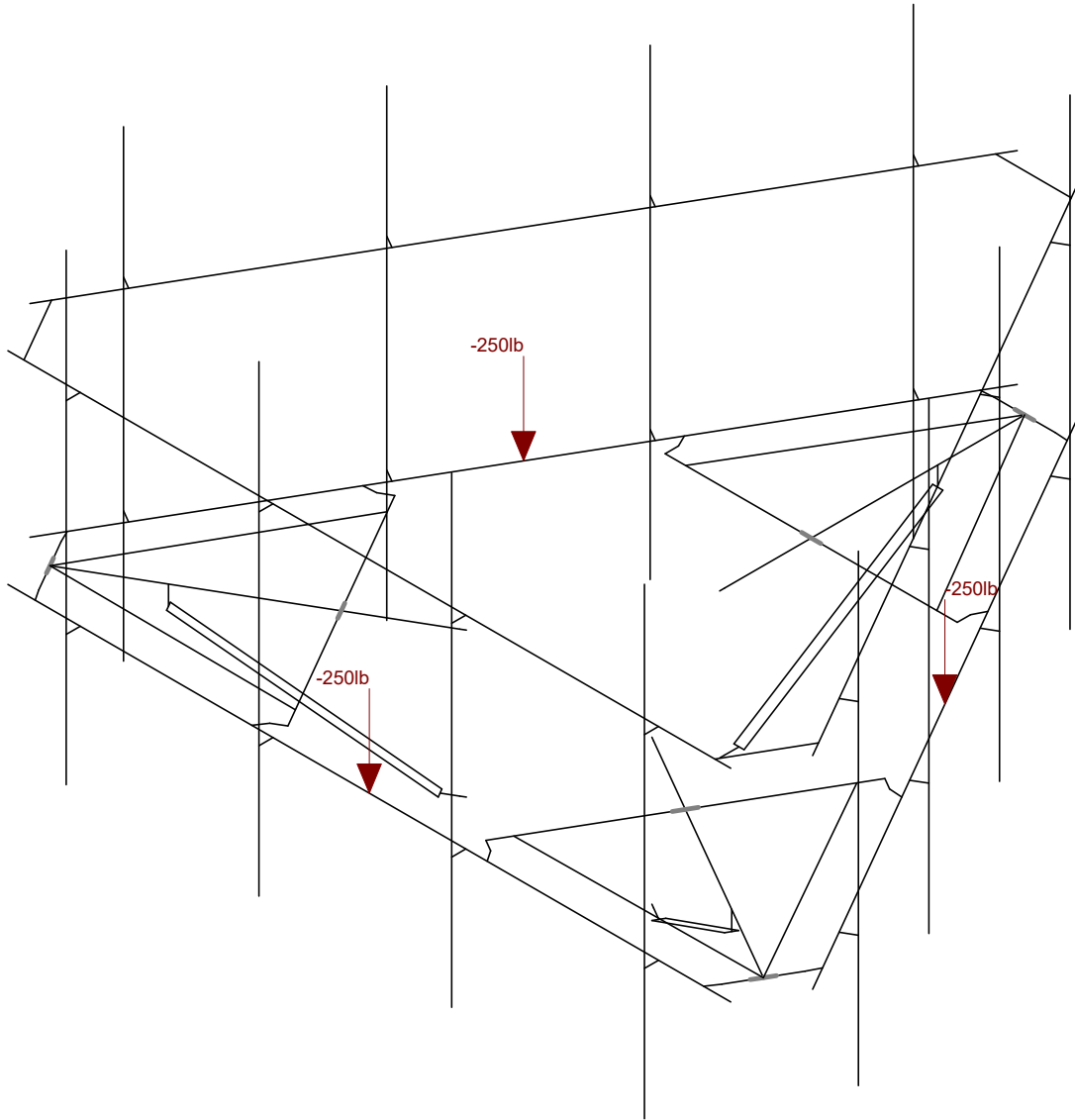
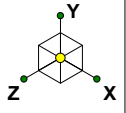


Loads: BLC 32, Seismic Load X
Envelope Only Solution

Infinigy Engineering, PLLC
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1106-A0001-B

Andover East

Seismic Load AZI 090
Dec 9, 2019 at 3:00 PM
RMQP-496-HK_loaded.r3d



Loads: BLC 33, Service Live Loads
Envelope Only Solution

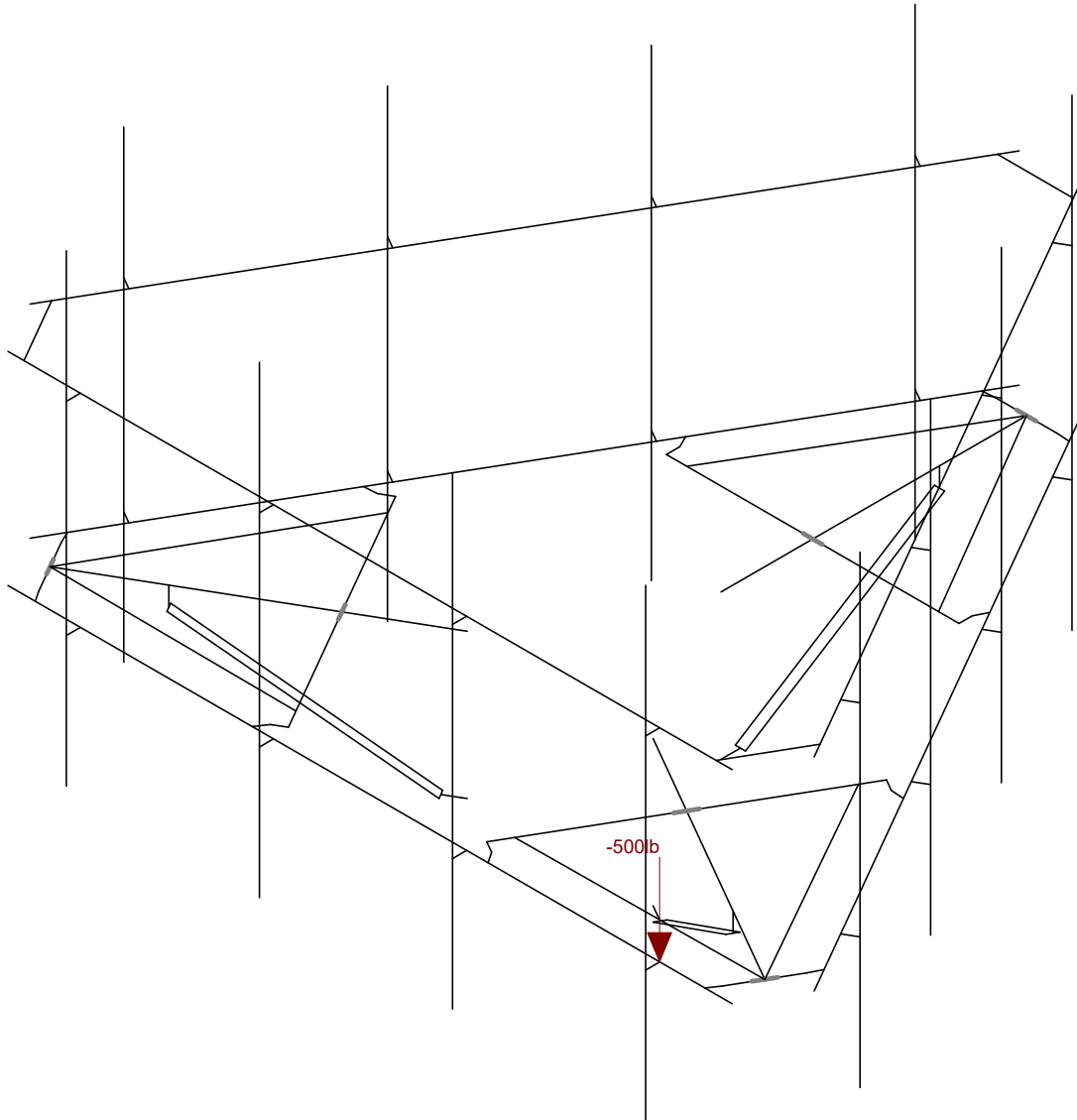
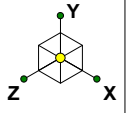
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Andover East

Service Load

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Loads: BLC 34, Maintenance Load 1
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TM

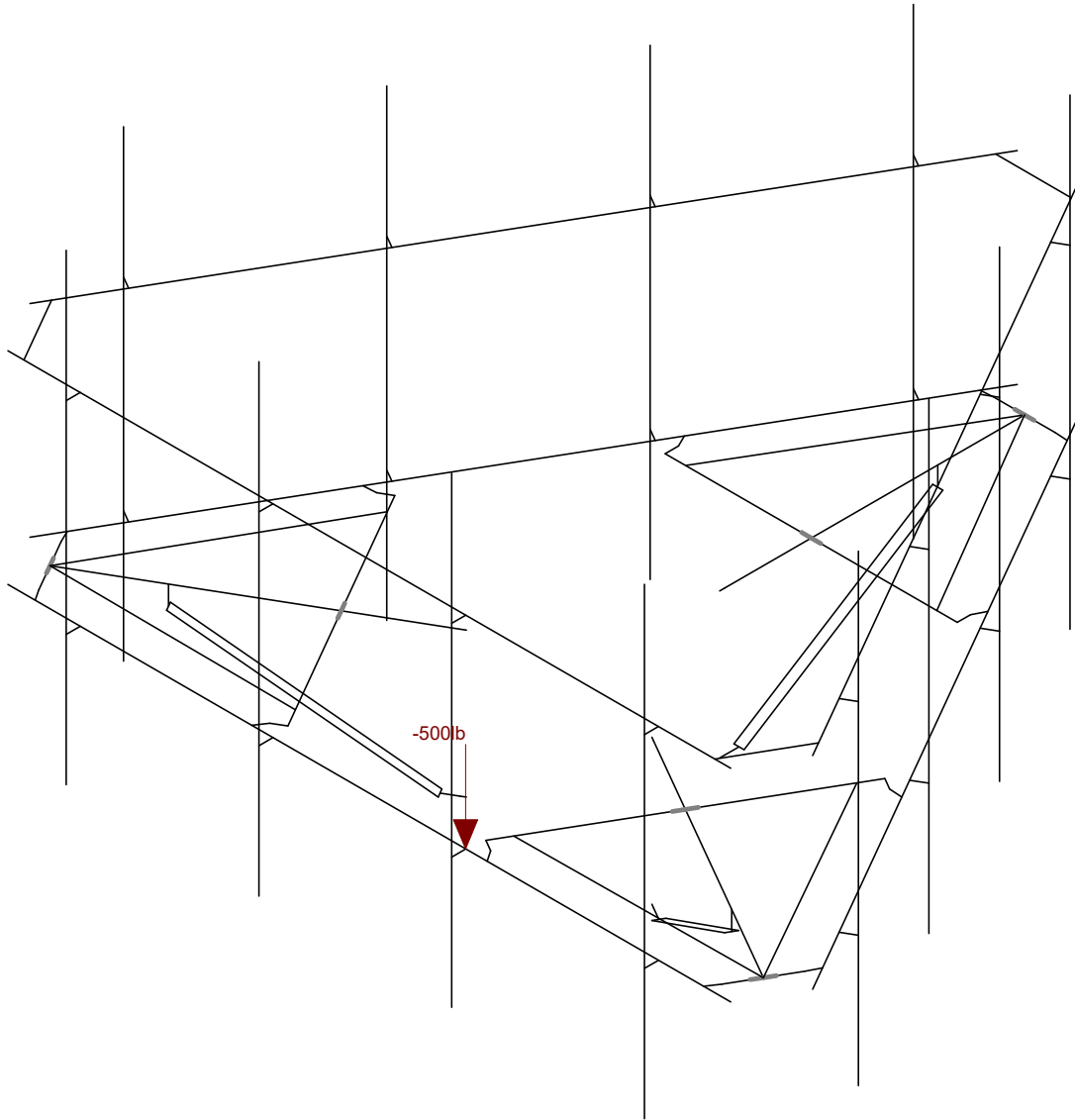
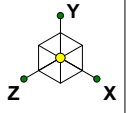
1106-A0001-B

Andover East

Maintenance Load 1

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RMQP-496-HK_loaded.r3d



Loads: BLC 35, Maintenance Load 2
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Infinigy Engineering, PLLC

TM

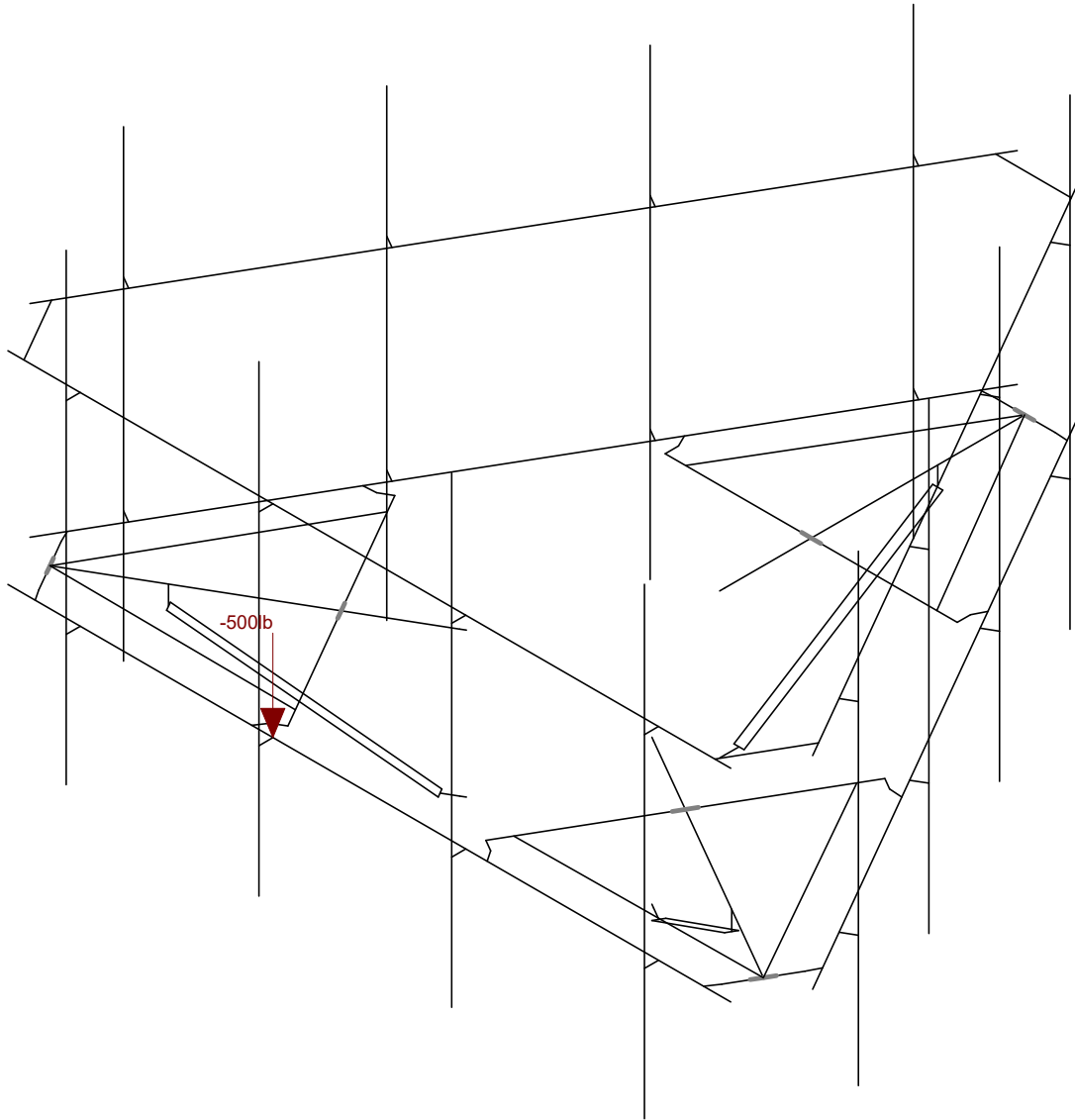
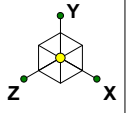
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Maintenance Load 2

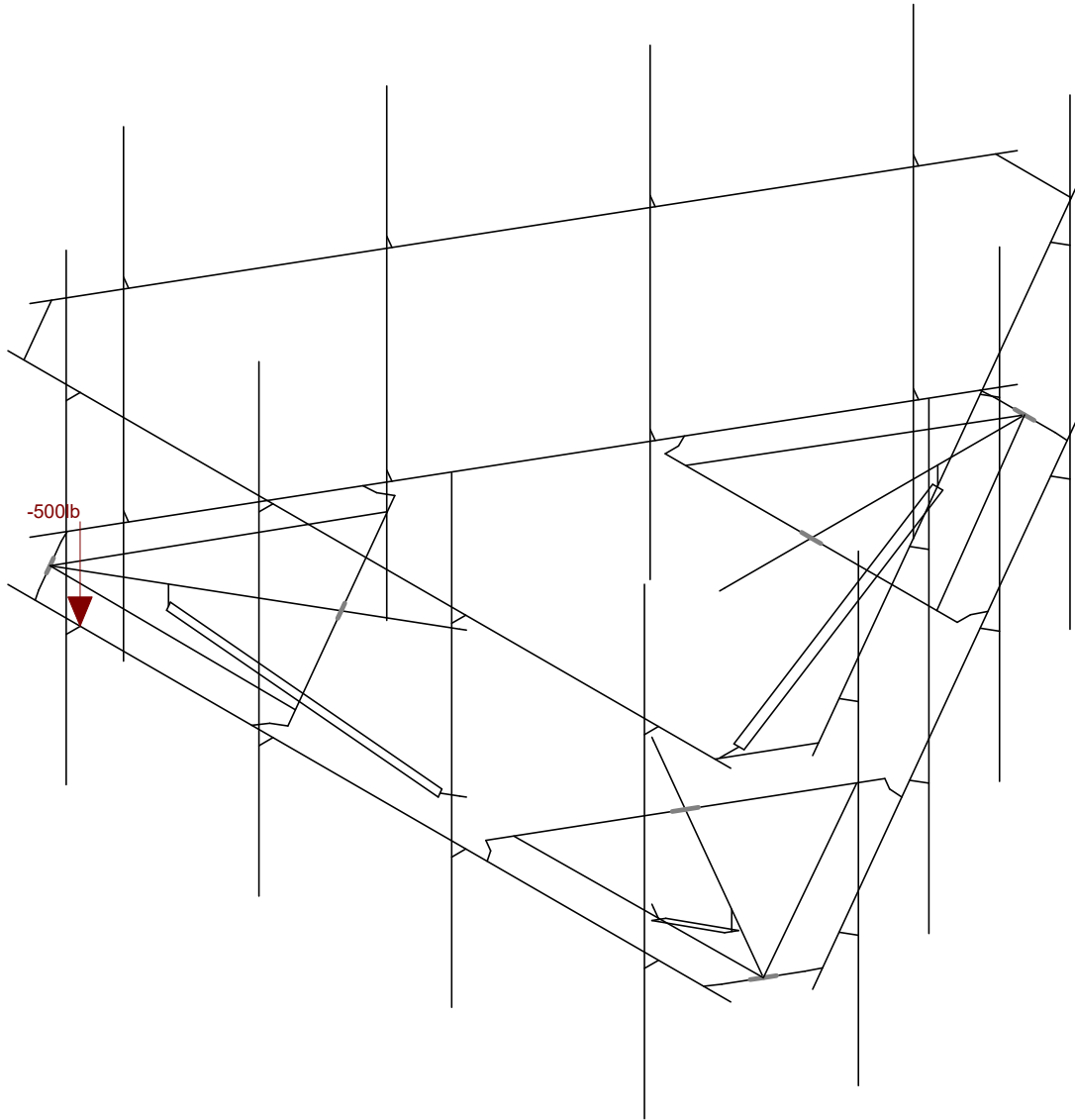
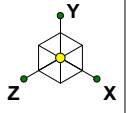
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RMQP-496-HK_loaded.r3d



Loads: BLC 36, Maintenance Load 3
Envelope Only Solution

Infinigy Engineering, PLLC	Andover East	Maintenance Load 3
TM		Dec 4, 2019 at 11:51 AM
1106-A0001-B		RMQP-496-HK_loaded.r3d



Loads: BLC 37, Maintenance Load 4
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Infinigy Engineering, PLLC

TM

1106-A0001-B

Andover East

Maintenance Load 4

Dec 4, 2019 at 11:52 AM

RMQP-496-HK_loaded.r3d

Program Inputs

PROJECT INFORMATION		
Client:	Smartlink	
Carrier:	AT&T Mobility	
Engineer:	Thomas Marr	

SITE INFORMATION		
Risk Category:	II	
Exposure Category:	B	
Topo Category:	1	
Site Class:	D - Stiff Soil	
Ground Elevation:	539	ft *Rev H

MOUNT INFORMATION		
Mount Type:	Platform	
Num Sectors:	3	
Centerline AGL:	137.0	ft
Tower Height AGL:	178.0	ft

TOPOGRAPHIC DATA		
Topo Feature:	N/A	
Crest Height:	N/A	ft
Slope Distance:	N/A	ft
Crest Distance:	N/A	ft

FACTORS		
Directionality Fact. (K_d):	0.95	
Ground Ele. Factor (K_e):	0.98	*Rev H Only
Rooftop Speed-Up (K_s):	1.00	*Rev H Only
Topographic Factor (K_{zt}):	1.00	
Gust Effect Factor (G_h):	1.0	

CODE STANDARDS		
Building Code:	2018 IBC	
TIA Standard:	TIA-222-H	
ASCE Standard:	ASCE 7-16	

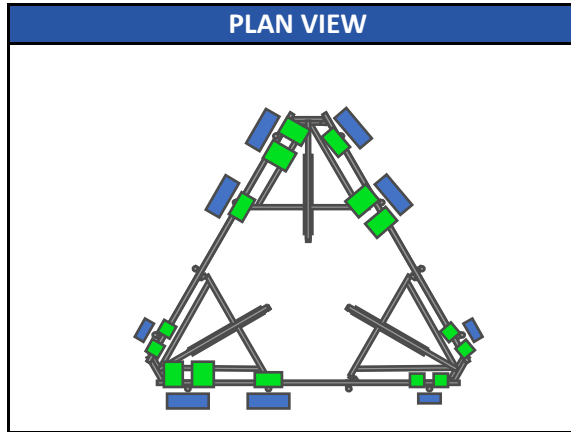
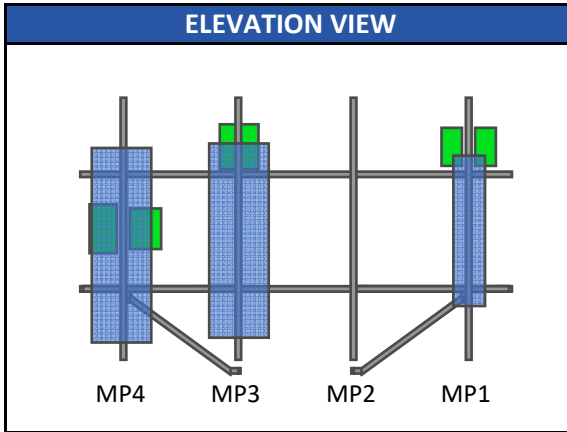
WIND AND ICE DATA		
Ultimate Wind (V_{ult}):	130	mph
Design Wind (V):	N/A	mph
Ice Wind (V_{ice}):	50	mph
Base Ice Thickness (t_i):	1.5	in
Flat Pressure:	87.16	psf
Round Pressure:	52.30	psf
Ice Wind Pressure:	7.74	psf

SEISMIC DATA		
Short-Period Accel. (S_s):	0.19	g
1-Second Accel. (S_1):	0.06	g
Short-Period Design (S_{DS}):	0.21	
1-Second Design (S_{D1}):	0.09	
Short-Period Coeff. (F_a):	1.60	
1-Second Coeff. (F_v):	2.40	
Amplification Factor (a_p):	1.00	
Response Mod. (R_p):	2.50	
Overstrength (Ω_o):	1.00	



Infinigy Wind Load Calculator V2.1.3

Program Inputs



APPURTENANCE INFORMATION												
Appurtenance Name	Elevation	Qty.	K_a	q_z (psf)	EPA_N (ft ²)	EPA_T (ft ²)	Wind F_z (lbs)	Wind F_x (lbs)	Weight (lbs)	Seismic F (lbs)	Member (α sector)	
POWERWAVE 7770	137.0	3	0.90	43.58	5.51	2.93	216.06	114.85	35.00	3.60	MP1	
CCI DMP65R-BU6D	137.0	3	0.90	43.58	12.71	5.62	498.50	220.25	79.40	8.17	MP3	
CCI DMP65R-BU6D	137.0	3	0.90	43.58	12.71	5.62	498.50	220.25	79.40	8.17	MP4	
ERICSSON B14 4478	137.0	3	0.90	43.58	1.84	1.06	72.27	41.53	59.90	6.17	MP3	
ERICSSON 4449 B5/B12	137.0	3	0.90	43.58	1.97	1.41	77.17	55.23	71.00	7.31	MP4	
ERICSSON 8843 B2/B66A	137.0	3	0.90	43.58	1.64	1.35	64.29	53.09	72.00	7.41	MP4	
POWERWAVE LGP21401	137.0	3	0.90	43.58	0.82	0.84	32.03	32.95	17.50	1.80	MP1	
POWERWAVE LGP21401	137.0	3	0.90	43.58	0.82	0.84	32.03	32.95	17.50	1.80	MP1	
RAYCAP DC6-48-60-18-8F	137.0	3	0.90	43.58	2.90	2.90	113.78	113.78	32.80	3.38	Leg/Flush	

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(d...	Section/Shape	Type	Design List	Material	Design Rules
1	M1	N111	N1			Standoffs	Beam	None	Q235-GB	Typical
2	M2	N123	N2			Standoffs	Beam	None	Q235-GB	Typical
3	M3	N131	N3			Standoffs	Beam	None	Q235-GB	Typical
4	M4	N5	N4			Horizontals	Beam	None	Q235-GB	Typical
5	M5	N8	N7			Horizontals	Beam	None	Q235-GB	Typical
6	M6	N10	N9			Horizontals	Beam	None	Q235-GB	Typical
7	M7	N11	N18			RIGID	None	None	RIGID	Typical
8	M8	N6	N17			RIGID	None	None	RIGID	Typical
9	M9	N12	N19			RIGID	None	None	RIGID	Typical
10	M10	N15	N24			RIGID	None	None	RIGID	Typical
11	M11	N16	N25			RIGID	None	None	RIGID	Typical
12	M12	N13	N30			RIGID	None	None	RIGID	Typical
13	M13	N14	N31			RIGID	None	None	RIGID	Typical
14	M14	N32	N34			Corner Plate	Beam	None	Q345	Typical
15	M15	N33	N35			Connection Plates	Beam	None	Q345	Typical
16	M16	N45	N43			Handrail Horizont...	Beam	None	Q235-GB	Typical
17	M17	N49	N48			Handrail Horizont...	Beam	None	Q235-GB	Typical
18	M18	N51	N68			RIGID	None	None	RIGID	Typical
19	M19	N46	N65			RIGID	None	None	RIGID	Typical
20	M20	N42	N44			Connection Plates	Beam	None	Q345	Typical
21	M21	N53	N71			RIGID	None	None	RIGID	Typical
22	M22	N60	N74			RIGID	None	None	RIGID	Typical
23	M23	N42	N47			Connection Plates	Beam	None	Q345	Typical
24	M24	N50	N52			Connection Plates	Beam	None	Q345	Typical
25	M25	N63	N77			RIGID	None	None	RIGID	Typical
26	M26	N56	N86			RIGID	None	None	RIGID	Typical
27	M27	N50	N54			Connection Plates	Beam	None	Q345	Typical
28	M28	N61	N66			Connection Plates	Beam	None	Q345	Typical
29	M29	N58	N90			RIGID	None	None	RIGID	Typical
30	M30	N96	N93			Handrail Horizont...	Beam	None	Q235-GB	Typical
31	M31	N61	N69			Connection Plates	Beam	None	Q345	Typical
32	M32	N107	N119		180	Angle Handrail C...	Beam	None	Q345	Typical
33	M33	N73	N79			Connection Plates	Beam	None	Q345	Typical
34	M34	N108	N112		180	Angle Handrail C...	Beam	None	Q345	Typical
35	M35	N124	N104		90	Angle Handrail C...	Beam	None	Q345	Typical
36	M36	N73	N82			Connection Plates	Beam	None	Q345	Typical
37	M37	N80	N91			Corner Plate	Beam	None	Q345	Typical
38	M38	N75	N81			Corner Plate	Beam	None	Q345	Typical
39	M39	N82	N83			Standoffs	Beam	None	Q235-GB	Typical
40	M40	N55	N57			RIGID	None	None	RIGID	Typical
41	M41	N127	N134			RIGID	None	None	RIGID	Typical
42	M42	N59	N62			RIGID	None	None	RIGID	Typical
43	M43	N83	N114			Standoffs	Beam	None	Q235-GB	Typical
44	M44	N136	N137			RIGID	None	None	RIGID	Typical
45	M45	N32	N1			Corner Plate	Beam	None	Q345	Typical
46	M46	N88	N94			Corner Plate	Beam	None	Q345	Typical
47	M47	N110	N98			Standoffs	Beam	None	Q235-GB	Typical
48	M48	N67	N72			RIGID	None	None	RIGID	Typical
49	M49	N1	N80			Corner Plate	Beam	None	Q345	Typical
50	M50	N64	N70			RIGID	None	None	RIGID	Typical
51	M51	N97	N106			Connection Plates	Beam	None	Q345	Typical
52	M52	N98	N47			Standoffs	Beam	None	Q235-GB	Typical
53	M53	N138	N141			RIGID	None	None	RIGID	Typical
54	M54	N75	N2			Corner Plate	Beam	None	Q345	Typical
55	M55	N67	N64		180	Kickers	Beam	None	Q345	Typical
56	M56	N54	N117			Standoffs	Beam	None	Q235-GB	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(d...	Section/Shape	Type	Design List	Material	Design Rules
57	M57	N142	N143			RIGID	None	None	RIGID	Typical
58	M58	N2	N88			Corner Plate	Beam	None	Q345	Typical
59	M59	N97	N110			Connection Plates	Beam	None	Q345	Typical
60	M60	N117	N69			Standoffs	Beam	None	Q235-GB	Typical
61	M61	N72	N70		90	Kickers	Beam	None	Q345	Typical
62	M62	N105	N113			Corner Plate	Beam	None	Q345	Typical
63	M63	N1	N89		270	Platform Angle	Beam	None	Q345	Typical
64	M64	N76	N78			RIGID	None	None	RIGID	Typical
65	M65	N144	N147			RIGID	None	None	RIGID	Typical
66	M66	N85	N87			RIGID	None	None	RIGID	Typical
67	M67	N1	N84			Platform Angle	Beam	None	Q345	Typical
68	M68	N148	N149			RIGID	None	None	RIGID	Typical
69	M69	N120	N128			Corner Plate	Beam	None	Q345	Typical
70	M70	N2	N102		270	Platform Angle	Beam	None	Q345	Typical
71	M71	N95	N103			RIGID	None	None	RIGID	Typical
72	M72	N92	N100			RIGID	None	None	RIGID	Typical
73	M73	N2	N99			Platform Angle	Beam	None	Q345	Typical
74	M74	N150	N153			RIGID	None	None	RIGID	Typical
75	M75	N105	N3			Corner Plate	Beam	None	Q345	Typical
76	M76	N3	N122		270	Platform Angle	Beam	None	Q345	Typical
77	M77	N95	N92		180	Kickers	Beam	None	Q345	Typical
78	M78	N154	N155			RIGID	None	None	RIGID	Typical
79	M79	N3	N120			Corner Plate	Beam	None	Q345	Typical
80	M80	N33	N114			Connection Plates	Beam	None	Q345	Typical
81	M81	N3	N118			Platform Angle	Beam	None	Q345	Typical
82	M82	N103	N100		90	Kickers	Beam	None	Q345	Typical
83	M83	N109	N116			RIGID	None	None	RIGID	Typical
84	M84	N156	N159			RIGID	None	None	RIGID	Typical
85	M85	N121	N125			RIGID	None	None	RIGID	Typical
86	M86	N160	N161			RIGID	None	None	RIGID	Typical
87	M87	N129	N135			RIGID	None	None	RIGID	Typical
88	M88	N126	N133			RIGID	None	None	RIGID	Typical
89	M89	N129	N126		180	Kickers	Beam	None	Q345	Typical
90	M90	N135	N133		90	Kickers	Beam	None	Q345	Typical
91	M91	N163	N131			RIGID	None	None	RIGID	Typical
92	M92	N162	N59			RIGID	None	None	RIGID	Typical
93	M93	N165	N111			RIGID	None	None	RIGID	Typical
94	M94	N164	N85			RIGID	None	None	RIGID	Typical
95	M95	N169	N123			RIGID	None	None	RIGID	Typical
96	M96	N168	N121			RIGID	None	None	RIGID	Typical
97	MP1	N36	N37			Mount Pipe	Column	None	Q235-GB	Typical
98	MP2	N38	N39			Mount Pipe	Column	None	Q235-GB	Typical
99	MP3	N132	N130			Mount Pipe	Column	None	Q235-GB	Typical
100	MP4	N40	N41			Mount Pipe	Column	None	Q235-GB	Typical
101	MP5	N23	N21			Mount Pipe	Column	None	Q235-GB	Typical
102	MP6	N152	N151			Mount Pipe	Column	None	Q235-GB	Typical
103	MP7	N158	N157			Mount Pipe	Column	None	Q235-GB	Typical
104	MP8	N22	N20			Mount Pipe	Column	None	Q235-GB	Typical
105	MP9	N29	N27			Mount Pipe	Column	None	Q235-GB	Typical
106	MP10	N140	N139			Mount Pipe	Column	None	Q235-GB	Typical
107	MP11	N146	N145			Mount Pipe	Column	None	Q235-GB	Typical
108	MP12	N28	N26			Mount Pipe	Column	None	Q235-GB	Typical

Material Takeoff

	Material	Size	Pieces	Length[in]	Weight[K]
1	General				
2	RIGID		42	110.3	0
3	Total General		42	110.3	0
4					
5	Hot Rolled Steel				
6	Q235-GB	HSS4X4X4	9	356.6	.341
7	Q235-GB	PIPE 2.0	15	1602	.463
8	Q235-GB	PIPE 3.0	3	450	.264
9	Q345	6"x1/2" Plate	12	42.3	.036
10	Q345	L2.5x2.5x4	3	47.2	.016
11	Q345	L2.5x2.5x8	6	292.6	.188
12	Q345	L2x2x3	6	308.1	.063
13	Q345	PL6x.375	12	32.7	.021
14	Total HR Steel		66	3131.4	1.392

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distribut...	Area(Me...Surface(...
1	Self Weight	DL		-1			33		3
2	Wind Load AZI 0	WLZ					66		
3	Wind Load AZI 30	None					66		
4	Wind Load AZI 60	None					66		
5	Wind Load AZI 90	WLX					66		
6	Wind Load AZI 120	None					66		
7	Wind Load AZI 150	None					66		
8	Wind Load AZI 180	None					66		
9	Wind Load AZI 210	None					66		
10	Wind Load AZI 240	None					66		
11	Wind Load AZI 270	None					66		
12	Wind Load AZI 300	None					66		
13	Wind Load AZI 330	None					66		
14	Distr. Wind Load Z	WLZ						108	
15	Distr. Wind Load X	WLX						108	
16	Ice Weight	OL1					33	108	3
17	Ice Wind Load AZI 0	OL2					66		
18	Ice Wind Load AZI 30	None					66		
19	Ice Wind Load AZI 60	None					66		
20	Ice Wind Load AZI 90	OL3					66		
21	Ice Wind Load AZI 120	None					66		
22	Ice Wind Load AZI 150	None					66		
23	Ice Wind Load AZI 180	None					66		
24	Ice Wind Load AZI 210	None					66		
25	Ice Wind Load AZI 240	None					66		
26	Ice Wind Load AZI 270	None					66		
27	Ice Wind Load AZI 300	None					66		
28	Ice Wind Load AZI 330	None					66		
29	Distr. Ice Wind Load Z	OL2						108	
30	Distr. Ice Wind Load X	OL3						108	
31	Seismic Load Z	ELZ			-.103		33		
32	Seismic Load X	ELX	-.103				33		
33	Service Live Loads	LL				3			
34	Maintenance Load 1	LL				1			
35	Maintenance Load 2	LL				1			
36	Maintenance Load 3	LL				1			
37	Maintenance Load 4	LL				1			

Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distrib...	Area(Me...	Surface(...
38	Maintenance Load 5	LL				1				
39	Maintenance Load 6	LL				1				
40	Maintenance Load 7	LL				1				
41	Maintenance Load 8	LL				1				
42	Maintenance Load 9	LL				1				
43	Maintenance Load 10	LL				1				
44	Maintenance Load 11	LL				1				
45	Maintenance Load 12	LL				1				
46	BLC 1 Transient Area Loads	None						114		
47	BLC 16 Transient Area Loads	None						114		

Load Combinations

	Description	So...	P...	S...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...
1	1.4DL	Yes	Y	1	1.4										
2	1.2DL + 1WL AZI 0	Yes	Y	1	1.2	2	1	14	1	15					
3	1.2DL + 1WL AZI ...	Yes	Y	1	1.2	3	1	14	.866	15	.5				
4	1.2DL + 1WL AZI ...	Yes	Y	1	1.2	4	1	14	.5	15	.866				
5	1.2DL + 1WL AZI ...	Yes	Y	1	1.2	5	1	14		15	1				
6	1.2DL + 1WL AZI ...	Yes	Y	1	1.2	6	1	14	-.5	15	.866				
7	1.2DL + 1WL AZI ...	Yes	Y	1	1.2	7	1	14	-.866	15	.5				
8	1.2DL + 1WL AZI ...	Yes	Y	1	1.2	8	1	14	-1	15					
9	1.2DL + 1WL AZI ...	Yes	Y	1	1.2	9	1	14	-.866	15	-.5				
10	1.2DL + 1WL AZI ...	Yes	Y	1	1.2	10	1	14	-.5	15	-.866				
11	1.2DL + 1WL AZI ...	Yes	Y	1	1.2	11	1	14		15	-1				
12	1.2DL + 1WL AZI ...	Yes	Y	1	1.2	12	1	14	.5	15	-.866				
13	1.2DL + 1WL AZI ...	Yes	Y	1	1.2	13	1	14	.866	15	-.5				
14	0.9DL + 1WL AZI 0	Yes	Y	1	.9	2	1	14	1	15					
15	0.9DL + 1WL AZI ...	Yes	Y	1	.9	3	1	14	.866	15	.5				
16	0.9DL + 1WL AZI ...	Yes	Y	1	.9	4	1	14	.5	15	.866				
17	0.9DL + 1WL AZI ...	Yes	Y	1	.9	5	1	14		15	1				
18	0.9DL + 1WL AZI ...	Yes	Y	1	.9	6	1	14	-.5	15	.866				
19	0.9DL + 1WL AZI ...	Yes	Y	1	.9	7	1	14	-.866	15	.5				
20	0.9DL + 1WL AZI ...	Yes	Y	1	.9	8	1	14	-1	15					
21	0.9DL + 1WL AZI ...	Yes	Y	1	.9	9	1	14	-.866	15	-.5				
22	0.9DL + 1WL AZI ...	Yes	Y	1	.9	10	1	14	-.5	15	-.866				
23	0.9DL + 1WL AZI ...	Yes	Y	1	.9	11	1	14		15	-1				
24	0.9DL + 1WL AZI ...	Yes	Y	1	.9	12	1	14	.5	15	-.866				
25	0.9DL + 1WL AZI ...	Yes	Y	1	.9	13	1	14	.866	15	-.5				
26	1.2D + 1.0Di	Yes	Y	1	1.2	16	1								
27	1.2D + 1.0Di + 1.0...	Yes	Y	1	1.2	16	1	17	1	29	1	30			
28	1.2D + 1.0Di + 1.0...	Yes	Y	1	1.2	16	1	18	1	29	.866	30	.5		
29	1.2D + 1.0Di + 1.0...	Yes	Y	1	1.2	16	1	19	1	29	.5	30	.866		
30	1.2D + 1.0Di + 1.0...	Yes	Y	1	1.2	16	1	20	1	29		30	1		
31	1.2D + 1.0Di + 1.0...	Yes	Y	1	1.2	16	1	21	1	29	-.5	30	.866		
32	1.2D + 1.0Di + 1.0...	Yes	Y	1	1.2	16	1	22	1	29	-.866	30	.5		
33	1.2D + 1.0Di + 1.0...	Yes	Y	1	1.2	16	1	23	1	29	-1	30			
34	1.2D + 1.0Di + 1.0...	Yes	Y	1	1.2	16	1	24	1	29	-.866	30	-.5		
35	1.2D + 1.0Di + 1.0...	Yes	Y	1	1.2	16	1	25	1	29	-.5	30	-.866		
36	1.2D + 1.0Di + 1.0...	Yes	Y	1	1.2	16	1	26	1	29		30	-1		
37	1.2D + 1.0Di + 1.0...	Yes	Y	1	1.2	16	1	27	1	29	.5	30	-.866		
38	1.2D + 1.0Di + 1.0...	Yes	Y	1	1.2	16	1	28	1	29	.866	30	-.5		
39	(1.2 + 0.2Sds)DL ...	Yes	Y	1	1.241	31	1	32							
40	(1.2 + 0.2Sds)DL ...	Yes	Y	1	1.241	31	.866	32	.5						
41	(1.2 + 0.2Sds)DL ...	Yes	Y	1	1.241	31	.5	32	.866						
42	(1.2 + 0.2Sds)DL ...	Yes	Y	1	1.241	31		32	1						

Load Combinations (Continued)

Description	So...	P...	S...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...
43 (1.2 + 0.2Sds)DL ...	Yes	Y		1	1.241	31	-5	32	.866				
44 (1.2 + 0.2Sds)DL ...	Yes	Y		1	1.241	31	-866	32	.5				
45 (1.2 + 0.2Sds)DL ...	Yes	Y		1	1.241	31	-1	32					
46 (1.2 + 0.2Sds)DL ...	Yes	Y		1	1.241	31	-866	32	-.5				
47 (1.2 + 0.2Sds)DL ...	Yes	Y		1	1.241	31	-.5	32	-.866				
48 (1.2 + 0.2Sds)DL ...	Yes	Y		1	1.241	31		32	-1				
49 (1.2 + 0.2Sds)DL ...	Yes	Y		1	1.241	31	.5	32	-.866				
50 (1.2 + 0.2Sds)DL ...	Yes	Y		1	1.241	31	.866	32	-.5				
51 (0.9 - 0.2Sds)DL ...	Yes	Y		1	.859	31	1	32					
52 (0.9 - 0.2Sds)DL ...	Yes	Y		1	.859	31	.866	32	.5				
53 (0.9 - 0.2Sds)DL ...	Yes	Y		1	.859	31	.5	32	.866				
54 (0.9 - 0.2Sds)DL ...	Yes	Y		1	.859	31		32	1				
55 (0.9 - 0.2Sds)DL ...	Yes	Y		1	.859	31	-.5	32	.866				
56 (0.9 - 0.2Sds)DL ...	Yes	Y		1	.859	31	-.866	32	.5				
57 (0.9 - 0.2Sds)DL ...	Yes	Y		1	.859	31	-1	32					
58 (0.9 - 0.2Sds)DL ...	Yes	Y		1	.859	31	-.866	32	-.5				
59 (0.9 - 0.2Sds)DL ...	Yes	Y		1	.859	31	-.5	32	-.866				
60 (0.9 - 0.2Sds)DL ...	Yes	Y		1	.859	31		32	-1				
61 (0.9 - 0.2Sds)DL ...	Yes	Y		1	.859	31	.5	32	-.866				
62 (0.9 - 0.2Sds)DL ...	Yes	Y		1	.859	31	.866	32	-.5				
63 1.0DL + 1.5LL + 1...	Yes	Y		1	1	2	.213	14	.213	15		33	1.5
64 1.0DL + 1.5LL + 1...	Yes	Y		1	1	3	.213	14	.184	15	.107	33	1.5
65 1.0DL + 1.5LL + 1...	Yes	Y		1	1	4	.213	14	.107	15	.184	33	1.5
66 1.0DL + 1.5LL + 1...	Yes	Y		1	1	5	.213	14		15	.213	33	1.5
67 1.0DL + 1.5LL + 1...	Yes	Y		1	1	6	.213	14	-.107	15	.184	33	1.5
68 1.0DL + 1.5LL + 1...	Yes	Y		1	1	7	.213	14	-.184	15	.107	33	1.5
69 1.0DL + 1.5LL + 1...	Yes	Y		1	1	8	.213	14	-.213	15		33	1.5
70 1.0DL + 1.5LL + 1...	Yes	Y		1	1	9	.213	14	-.184	15	-.107	33	1.5
71 1.0DL + 1.5LL + 1...	Yes	Y		1	1	10	.213	14	-.107	15	-.184	33	1.5
72 1.0DL + 1.5LL + 1...	Yes	Y		1	1	11	.213	14		15	-.213	33	1.5
73 1.0DL + 1.5LL + 1...	Yes	Y		1	1	12	.213	14	.107	15	-.184	33	1.5
74 1.0DL + 1.5LL + 1...	Yes	Y		1	1	13	.213	14	.184	15	-.107	33	1.5
75 1.2DL + 1.5LL	Yes	Y		1	1.2	33	1.5						
76 1.2DL + 1.5LM-M...	Yes	Y		1	1.2	34	1.5	2	.053	14	.053	15	
77 1.2DL + 1.5LM-M...	Yes	Y		1	1.2	34	1.5	3	.053	14	.046	15	.027
78 1.2DL + 1.5LM-M...	Yes	Y		1	1.2	34	1.5	4	.053	14	.027	15	.046
79 1.2DL + 1.5LM-M...	Yes	Y		1	1.2	34	1.5	5	.053	14		15	.053
80 1.2DL + 1.5LM-M...	Yes	Y		1	1.2	34	1.5	6	.053	14	-.027	15	.046
81 1.2DL + 1.5LM-M...	Yes	Y		1	1.2	34	1.5	7	.053	14	-.046	15	.027
82 1.2DL + 1.5LM-M...	Yes	Y		1	1.2	34	1.5	8	.053	14	-.053	15	
83 1.2DL + 1.5LM-M...	Yes	Y		1	1.2	34	1.5	9	.053	14	-.046	15	-.027
84 1.2DL + 1.5LM-M...	Yes	Y		1	1.2	34	1.5	10	.053	14	-.027	15	-.046
85 1.2DL + 1.5LM-M...	Yes	Y		1	1.2	34	1.5	11	.053	14		15	-.053
86 1.2DL + 1.5LM-M...	Yes	Y		1	1.2	34	1.5	12	.053	14	.027	15	-.046
87 1.2DL + 1.5LM-M...	Yes	Y		1	1.2	34	1.5	13	.053	14	.046	15	-.027
88 1.2DL + 1.5LM-M...	Yes	Y		1	1.2	35	1.5	2	.053	14	.053	15	
89 1.2DL + 1.5LM-M...	Yes	Y		1	1.2	35	1.5	3	.053	14	.046	15	.027
90 1.2DL + 1.5LM-M...	Yes	Y		1	1.2	35	1.5	4	.053	14	.027	15	.046
91 1.2DL + 1.5LM-M...	Yes	Y		1	1.2	35	1.5	5	.053	14		15	.053
92 1.2DL + 1.5LM-M...	Yes	Y		1	1.2	35	1.5	6	.053	14	-.027	15	.046
93 1.2DL + 1.5LM-M...	Yes	Y		1	1.2	35	1.5	7	.053	14	-.046	15	.027
94 1.2DL + 1.5LM-M...	Yes	Y		1	1.2	35	1.5	8	.053	14	-.053	15	
95 1.2DL + 1.5LM-M...	Yes	Y		1	1.2	35	1.5	9	.053	14	-.046	15	-.027
96 1.2DL + 1.5LM-M...	Yes	Y		1	1.2	35	1.5	10	.053	14	-.027	15	-.046
97 1.2DL + 1.5LM-M...	Yes	Y		1	1.2	35	1.5	11	.053	14		15	-.053
98 1.2DL + 1.5LM-M...	Yes	Y		1	1.2	35	1.5	12	.053	14	.027	15	-.046
99 1.2DL + 1.5LM-M...	Yes	Y		1	1.2	35	1.5	13	.053	14	.046	15	-.027

Load Combinations (Continued)

	Description	So...	P...	S...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...
100	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	36	1.5	2	.053	14	.053	15	
101	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	36	1.5	3	.053	14	.046	15	.027
102	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	36	1.5	4	.053	14	.027	15	.046
103	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	36	1.5	5	.053	14		15	.053
104	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	36	1.5	6	.053	14	-.027	15	.046
105	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	36	1.5	7	.053	14	-.046	15	.027
106	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	36	1.5	8	.053	14	-.053	15	
107	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	36	1.5	9	.053	14	-.046	15	-.027
108	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	36	1.5	10	.053	14	-.027	15	-.046
109	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	36	1.5	11	.053	14		15	-.053
110	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	36	1.5	12	.053	14	.027	15	-.046
111	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	36	1.5	13	.053	14	.046	15	-.027
112	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	37	1.5	2	.053	14	.053	15	
113	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	37	1.5	3	.053	14	.046	15	.027
114	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	37	1.5	4	.053	14	.027	15	.046
115	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	37	1.5	5	.053	14		15	.053
116	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	37	1.5	6	.053	14	-.027	15	.046
117	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	37	1.5	7	.053	14	-.046	15	.027
118	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	37	1.5	8	.053	14	-.053	15	
119	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	37	1.5	9	.053	14	-.046	15	-.027
120	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	37	1.5	10	.053	14	-.027	15	-.046
121	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	37	1.5	11	.053	14		15	-.053
122	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	37	1.5	12	.053	14	.027	15	-.046
123	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	37	1.5	13	.053	14	.046	15	-.027
124	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	38	1.5	2	.053	14	.053	15	
125	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	38	1.5	3	.053	14	.046	15	.027
126	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	38	1.5	4	.053	14	.027	15	.046
127	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	38	1.5	5	.053	14		15	.053
128	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	38	1.5	6	.053	14	-.027	15	.046
129	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	38	1.5	7	.053	14	-.046	15	.027
130	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	38	1.5	8	.053	14	-.053	15	
131	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	38	1.5	9	.053	14	-.046	15	-.027
132	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	38	1.5	10	.053	14	-.027	15	-.046
133	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	38	1.5	11	.053	14		15	-.053
134	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	38	1.5	12	.053	14	.027	15	-.046
135	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	38	1.5	13	.053	14	.046	15	-.027
136	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	39	1.5	2	.053	14	.053	15	
137	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	39	1.5	3	.053	14	.046	15	.027
138	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	39	1.5	4	.053	14	.027	15	.046
139	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	39	1.5	5	.053	14		15	.053
140	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	39	1.5	6	.053	14	-.027	15	.046
141	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	39	1.5	7	.053	14	-.046	15	.027
142	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	39	1.5	8	.053	14	-.053	15	
143	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	39	1.5	9	.053	14	-.046	15	-.027
144	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	39	1.5	10	.053	14	-.027	15	-.046
145	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	39	1.5	11	.053	14		15	-.053
146	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	39	1.5	12	.053	14	.027	15	-.046
147	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	39	1.5	13	.053	14	.046	15	-.027
148	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	40	1.5	2	.053	14	.053	15	
149	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	40	1.5	3	.053	14	.046	15	.027
150	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	40	1.5	4	.053	14	.027	15	.046
151	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	40	1.5	5	.053	14		15	.053
152	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	40	1.5	6	.053	14	-.027	15	.046
153	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	40	1.5	7	.053	14	-.046	15	.027
154	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	40	1.5	8	.053	14	-.053	15	
155	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	40	1.5	9	.053	14	-.046	15	-.027
156	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	40	1.5	10	.053	14	-.027	15	-.046

Load Combinations (Continued)

	Description	So...	P...	S...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...
157	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	40	1.5	11	.053	14		15	-.053
158	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	40	1.5	12	.053	14	.027	15	-.046
159	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	40	1.5	13	.053	14	.046	15	-.027
160	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	41	1.5	2	.053	14	.053	15	
161	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	41	1.5	3	.053	14	.046	15	.027
162	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	41	1.5	4	.053	14	.027	15	.046
163	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	41	1.5	5	.053	14		15	.053
164	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	41	1.5	6	.053	14	-.027	15	.046
165	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	41	1.5	7	.053	14	-.046	15	.027
166	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	41	1.5	8	.053	14	-.053	15	
167	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	41	1.5	9	.053	14	-.046	15	-.027
168	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	41	1.5	10	.053	14	-.027	15	-.046
169	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	41	1.5	11	.053	14		15	-.053
170	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	41	1.5	12	.053	14	.027	15	-.046
171	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	41	1.5	13	.053	14	.046	15	-.027
172	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	42	1.5	2	.053	14	.053	15	
173	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	42	1.5	3	.053	14	.046	15	.027
174	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	42	1.5	4	.053	14	.027	15	.046
175	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	42	1.5	5	.053	14		15	.053
176	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	42	1.5	6	.053	14	-.027	15	.046
177	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	42	1.5	7	.053	14	-.046	15	.027
178	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	42	1.5	8	.053	14	-.053	15	
179	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	42	1.5	9	.053	14	-.046	15	-.027
180	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	42	1.5	10	.053	14	-.027	15	-.046
181	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	42	1.5	11	.053	14		15	-.053
182	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	42	1.5	12	.053	14	.027	15	-.046
183	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	42	1.5	13	.053	14	.046	15	-.027
184	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	43	1.5	2	.053	14	.053	15	
185	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	43	1.5	3	.053	14	.046	15	.027
186	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	43	1.5	4	.053	14	.027	15	.046
187	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	43	1.5	5	.053	14		15	.053
188	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	43	1.5	6	.053	14	-.027	15	.046
189	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	43	1.5	7	.053	14	-.046	15	.027
190	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	43	1.5	8	.053	14	-.053	15	
191	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	43	1.5	9	.053	14	-.046	15	-.027
192	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	43	1.5	10	.053	14	-.027	15	-.046
193	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	43	1.5	11	.053	14		15	-.053
194	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	43	1.5	12	.053	14	.027	15	-.046
195	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	43	1.5	13	.053	14	.046	15	-.027
196	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	44	1.5	2	.053	14	.053	15	
197	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	44	1.5	3	.053	14	.046	15	.027
198	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	44	1.5	4	.053	14	.027	15	.046
199	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	44	1.5	5	.053	14		15	.053
200	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	44	1.5	6	.053	14	-.027	15	.046
201	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	44	1.5	7	.053	14	-.046	15	.027
202	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	44	1.5	8	.053	14	-.053	15	
203	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	44	1.5	9	.053	14	-.046	15	-.027
204	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	44	1.5	10	.053	14	-.027	15	-.046
205	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	44	1.5	11	.053	14		15	-.053
206	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	44	1.5	12	.053	14	.027	15	-.046
207	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	44	1.5	13	.053	14	.046	15	-.027
208	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	45	1.5	2	.053	14	.053	15	
209	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	45	1.5	3	.053	14	.046	15	.027
210	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	45	1.5	4	.053	14	.027	15	.046
211	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	45	1.5	5	.053	14		15	.053
212	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	45	1.5	6	.053	14	-.027	15	.046
213	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	45	1.5	7	.053	14	-.046	15	.027

Load Combinations (Continued)

	Description	So...	P...	S...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...
214	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	45	1.5	8	.053	14	-.053	15	
215	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	45	1.5	9	.053	14	-.046	15	-.027
216	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	45	1.5	10	.053	14	-.027	15	-.046
217	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	45	1.5	11	.053	14		15	-.053
218	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	45	1.5	12	.053	14	.027	15	-.046

Envelope Joint Reactions

Joint		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC	
1	N163	max	2015.356	17	1068.926	33	5750.988	2	1.143	27	2.496	11	.683	11
2		min	-2020.799	11	237.392	14	-3182.64	20	.273	20	-2.496	5	-.567	17
3	N162	max	70.63	191	3007.724	27	199.951	20	1.078	27	.362	23	.245	23
4		min	-62.625	149	-102.802	20	-4634.651	27	-.018	20	-.37	5	-.248	5
5	N164	max	313.224	24	2569.199	31	2016.739	31	.122	24	.249	11	.007	24
6		min	-3375.797	31	-206.323	24	-111.831	24	-.47	31	-.213	17	-.803	31
7	N165	max	4434.997	6	888.861	37	2217.622	25	.274	15	1.754	15	.114	21
8		min	-2627.149	24	151.62	17	-3302.507	7	-1.027	107	-1.789	9	-.859	137
9	N168	max	2646.404	35	2031.466	35	1524.357	35	.135	17	.23	23	.658	35
10		min	-532.288	16	-369.2	16	-267.83	16	-.392	35	-.232	5	-.073	15
11	N169	max	2876.444	16	854.352	29	1893.209	15	.328	25	1.185	19	.935	207
12		min	-4152.299	10	143.732	22	-2628.274	9	-.888	93	-1.191	13	-.04	19
13	Totals:	max	6232.818	17	9903.78	37	6548.057	14						
14		min	-6232.817	23	2597.5	55	-6548.06	8						

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

Member	Shape	Code Ch...	Loc[in]	LC	Shear C...	Loc.....	LC	phi*Pn...	phi*Pn...	phi*M...	phi*M...	Eqn	
1	MP10	PIPE 2.0	.507	27	6	.067	27	3	14916...	32130	1.872	1.872	H1-1b
2	MP7	PIPE 2.0	.475	27	10	.071	27	7	14916...	32130	1.872	1.872	H1-1b
3	MP3	PIPE 2.0	.470	27	2	.052	69	7	14916...	32130	1.872	1.872	H1-1b
4	MP6	PIPE 2.0	.385	27	7	.098	27	5	14916...	32130	1.872	1.872	H1-1b
5	MP8	PIPE 2.0	.369	27	12	.171	69	4	14916...	32130	1.872	1.872	H1-1b
6	MP11	PIPE 2.0	.366	27	10	.092	27	11	14916...	32130	1.872	1.872	H1-1b
7	MP2	PIPE 2.0	.351	27	2	.091	27	8	14916...	32130	1.872	1.872	H1-1b
8	M30	PIPE 2.0	.340	135.938	11	.217	145...	6	25978...	32130	1.872	1.872	H1-1b
9	MP5	PIPE 2.0	.335	27	2	.111	27	4	14916...	32130	1.872	1.872	H1-1b
10	M16	PIPE 2.0	.330	14.062	5	.203	4.6...	10	25978...	32130	1.872	1.872	H1-1b
11	MP9	PIPE 2.0	.327	27	4	.173	69	12	14916...	32130	1.872	1.872	H1-1b
12	MP4	PIPE 2.0	.324	27	3	.170	69	8	14916...	32130	1.872	1.872	H1-1b
13	M34	L2.5x2.5x4	.317	15.731	8	.141	15.... y	3	36453...	38556	1.114	2.537	H2-1
14	M35	L2.5x2.5x4	.296	15.731	13	.166	15.... z	5	36453...	38556	1.114	2.537	H2-1
15	M17	PIPE 2.0	.287	14.062	3	.208	4.6...	2	25978...	32130	1.872	1.872	H1-1b
16	MP12	PIPE 2.0	.283	27	9	.108	27	12	14916...	32130	1.872	1.872	H1-1b
17	MP1	PIPE 2.0	.255	27	12	.109	27	8	14916...	32130	1.872	1.872	H1-1b
18	M33	PL6x.375	.249	2.704	11	.164	0 y	9	70544.2	72900	.57	9.113	H1-1b
19	M20	PL6x.375	.249	2.704	5	.152	0 y	6	70544.2	72900	.57	9.113	H1-1b
20	M3	HSS4X4X4	.229	0	5	.135	0 z	11	10175...	106155	12.311	12.311	H1-1b
21	M27	PL6x.375	.226	2.75	11	.435	2.75 y	6	70464...	72900	.57	9.113	H1-1b
22	M63	L2x2x3	.224	51.353	7	.012	0 z	29	9346...	23392.8	.558	1.228	H2-1
23	M31	PL6x.375	.219	2.75	5	.426	2.75 y	10	70465...	72900	.57	9.113	H1-1b
24	M75	6"x1/2" Plate	.214	4.338	2	.142	4.3... y	37	92685...	97200	1.012	12.15	H1-1b
25	M81	L2x2x3	.214	51.353	13	.014	0 y	29	9346.27	23392.8	.558	1.209	H2-1
26	M76	L2x2x3	.213	51.353	3	.013	0 z	37	9346...	23392.8	.558	1.208	H2-1
27	M51	PL6x.375	.208	2.704	3	.154	0 y	2	70544.2	72900	.57	9.113	H1-1b
28	M49	6"x1/2" Plate	.203	0	5	.103	0 y	33	92686...	97200	1.012	12.15	H1-1b
29	M79	6"x1/2" Plate	.200	0	2	.143	0 y	29	92687...	97200	1.012	12.15	H1-1b

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

Member	Shape	Code Ch...	Loc[in]	LC	Shear C...	Loc.....	LC	phi*Pn...	phi*Pn...	phi*M...	phi*M...	Egn			
30	M28	PL6x.375	.199	2.704	9	.170	0	y	5	70544.2	72900	.57	9.113	...	H1-1b
31	M54	6"x1/2" Plate	.197	4.338	11	.086	4.3...	y	214	92686...	97200	1.012	12.15	...	H1-1b
32	M73	L2x2x3	.193	51.353	9	.012	0	y	37	9346...	23392.8	.558	1.229	...	H2-1
33	M58	6"x1/2" Plate	.193	0	9	.086	0	y	87	92686...	97200	1.012	12.15	...	H1-1b
34	M32	L2.5x2.5x4	.192	15.731	11	.109	15....	y	7	36453...	38556	1.114	2.537	...	H2-1
35	M67	L2x2x3	.189	0	6	.013	0	y	33	9346.21	23392.8	.558	1.219	...	H2-1
36	M45	6"x1/2" Plate	.185	4.338	6	.127	4.3...	y	29	92686...	97200	1.012	12.15	...	H1-1b
37	M70	L2x2x3	.184	51.353	11	.012	0	z	33	9346...	23392.8	.558	1.221	...	H2-1
38	M80	PL6x.375	.177	2.75	9	.413	2.75	y	2	70464...	72900	.57	9.113	...	H1-1b
39	M56	HSS4X4X4	.175	28.3	38	.091	4.1...	z	12	10429...	106155	12.311	12.311	...	H1-1b
40	M1	HSS4X4X4	.172	44.746	31	.125	0	z	9	10175...	106155	12.311	12.311	1	H1-1b
41	M62	6"x1/2" Plate	.169	2.704	2	.117	0	y	11	95420...	97200	1.012	12.15	...	H1-1b
42	M37	6"x1/2" Plate	.168	2.704	6	.116	2.7...	y	9	95420...	97200	1.012	12.15	...	H1-1b
43	M38	6"x1/2" Plate	.162	2.704	11	.100	0	y	7	95420...	97200	1.012	12.15	...	H1-1b
44	M15	PL6x.375	.162	2.704	13	.173	0	y	8	70544.2	72900	.57	9.113	...	H1-1b
45	M60	HSS4X4X4	.160	0	28	.090	24....	z	4	10429...	106155	12.311	12.311	...	H1-1b
46	M69	6"x1/2" Plate	.160	2.704	2	.116	0	y	5	95420...	97200	1.012	12.15	...	H1-1b
47	M46	6"x1/2" Plate	.159	2.704	9	.101	2.7...	y	2	95420...	97200	1.012	12.15	...	H1-1b
48	M61	L2.5x2.5x8	.154	48.765	11	.011	48....	y	10	42624...	73224	1.865	4.392	...	H2-1
49	M77	L2.5x2.5x8	.154	48.765	9	.013	48....	z	9	42624...	73224	1.865	4.392	...	H2-1
50	M24	PL6x.375	.153	2.704	7	.167	0	y	12	70544.2	72900	.57	9.113	...	H1-1b
51	M43	HSS4X4X4	.152	0	32	.091	24....	z	8	10429...	106155	12.311	12.311	...	H1-1b
52	M55	L2.5x2.5x8	.149	48.765	5	.011	48....	z	10	42624...	73224	1.865	4.392	...	H2-1
53	M14	6"x1/2" Plate	.143	2.704	12	.107	0	y	3	95420...	97200	1.012	12.134	1	H1-1b
54	M36	PL6x.375	.139	2.75	11	.440	2.75	y	10	70464...	72900	.57	9.113	...	H1-1b
55	M23	PL6x.375	.139	2.75	5	.421	2.75	y	6	70464...	72900	.57	9.113	...	H1-1b
56	M2	HSS4X4X4	.126	44.746	35	.097	44....	y	7	10175...	106155	12.311	12.311	1	H1-1b
57	M90	L2.5x2.5x8	.124	48.765	7	.012	48....	y	7	42624...	73224	1.865	4.392	...	H2-1
58	M89	L2.5x2.5x8	.122	48.765	13	.012	48....	z	13	42624...	73224	1.865	4.392	...	H2-1
59	M39	HSS4X4X4	.118	28.301	30	.075	4.1...	z	4	10429...	106155	12.311	12.311	...	H1-1b
60	M82	L2.5x2.5x8	.118	48.765	3	.013	48....	y	9	42624...	73224	1.865	4.392	...	H2-1
61	M52	HSS4X4X4	.117	0	205	.073	24....	z	12	10429...	106155	12.311	12.311	...	H1-1b
62	M47	HSS4X4X4	.117	28.301	34	.075	4.1...	z	8	10429...	106155	12.311	12.311	...	H1-1b
63	M59	PL6x.375	.105	2.75	3	.428	2.75	y	2	70464...	72900	.57	9.113	...	H1-1b
64	M5	PIPE 3.0	.091	14.062	118	.130	51....		2	59302...	65205	5.749	5.749	1	H1-1b
65	M4	PIPE 3.0	.090	93.75	8	.132	143...		4	59302...	65205	5.749	5.749	1	H1-1b
66	M6	PIPE 3.0	.090	93.75	10	.140	98....		12	59302...	65205	5.749	5.749	1	H1-1b

Hot Rolled Steel Section Sets

Label	Shape	Type	Design List	Material	Design ...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]	
1	Standoffs	HSS4X4X4	Beam	None	Q235-GB	Typical	3.37	7.8	7.8	12.8
2	Horizontals	PIPE 3.0	Beam	None	Q235-GB	Typical	2.07	2.85	2.85	5.69
3	Platform Angle	L2x2x3	Beam	None	Q345	Typical	.722	.271	.271	.009
4	Mount Pipe	PIPE 2.0	Column	None	Q235-GB	Typical	1.02	.627	.627	1.25
5	Corner Plate	6"x1/2" Plate	Beam	None	Q345	Typical	3	.063	9	.237
6	Handrail Horizont...	PIPE 2.0	Beam	None	Q235-GB	Typical	1.02	.627	.627	1.25
7	Angle Handrail C...	L2.5x2.5x4	Beam	None	Q345	Typical	1.19	.692	.692	.026
8	Platform Braces	HSS4X4X4	Beam	None	Q235-GB	Typical	3.37	7.8	7.8	12.8
9	Connection Plates	PL6x.375	Beam	None	Q345	Typical	2.25	.026	6.75	.101
10	Kickers	L2.5x2.5x8	Beam	None	Q345	Typical	2.26	1.22	1.22	.188

Member Advanced Data

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat..	Analysis ...	Inactive	Seismic...
1	M1						Yes				None
2	M2						Yes				None
3	M3						Yes				None
4	M4						Yes				None
5	M5						Yes				None
6	M6						Yes				None
7	M7						Yes	** NA **			None
8	M8						Yes	** NA **			None
9	M9						Yes	** NA **			None
10	M10						Yes	** NA **			None
11	M11						Yes	** NA **			None
12	M12						Yes	** NA **			None
13	M13						Yes	** NA **			None
14	M14						Yes	Default			None
15	M15						Yes	Default			None
16	M16						Yes				None
17	M17						Yes				None
18	M18						Yes	** NA **			None
19	M19						Yes	** NA **			None
20	M20						Yes	Default			None
21	M21						Yes	** NA **			None
22	M22						Yes	** NA **			None
23	M23						Yes				None
24	M24						Yes	Default			None
25	M25						Yes	** NA **			None
26	M26						Yes	** NA **			None
27	M27						Yes				None
28	M28						Yes	Default			None
29	M29						Yes	** NA **			None
30	M30						Yes				None
31	M31						Yes				None
32	M32						Yes				None
33	M33						Yes	Default			None
34	M34						Yes				None
35	M35						Yes				None
36	M36						Yes	Default			None
37	M37						Yes	Default			None
38	M38						Yes	Default			None
39	M39						Yes	Default			None
40	M40						Yes	** NA **			None
41	M41						Yes	** NA **			None
42	M42						Yes	** NA **			None
43	M43						Yes	Default			None
44	M44						Yes	** NA **			None
45	M45						Yes				None
46	M46						Yes	Default			None
47	M47						Yes	Default			None
48	M48						Yes	** NA **			None
49	M49						Yes	Default			None
50	M50						Yes	** NA **			None
51	M51						Yes	Default			None
52	M52						Yes	Default			None
53	M53						Yes	** NA **			None
54	M54						Yes				None
55	M55						Yes				None
56	M56						Yes	Default			None

Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
57	M57						Yes	** NA **			None
58	M58			2			Yes	Default			None
59	M59						Yes				None
60	M60			2			Yes	Default			None
61	M61						Yes				None
62	M62						Yes	Default			None
63	M63						Yes				None
64	M64						Yes	** NA **			None
65	M65						Yes	** NA **			None
66	M66						Yes	** NA **			None
67	M67						Yes				None
68	M68						Yes	** NA **			None
69	M69						Yes	Default			None
70	M70						Yes				None
71	M71						Yes	** NA **			None
72	M72						Yes	** NA **			None
73	M73						Yes				None
74	M74						Yes	** NA **			None
75	M75				2		Yes				None
76	M76						Yes				None
77	M77						Yes				None
78	M78						Yes	** NA **			None
79	M79			2			Yes	Default			None
80	M80						Yes				None
81	M81						Yes				None
82	M82						Yes				None
83	M83						Yes	** NA **			None
84	M84						Yes	** NA **			None
85	M85						Yes	** NA **			None
86	M86						Yes	** NA **			None
87	M87						Yes	** NA **			None
88	M88						Yes	** NA **			None
89	M89						Yes				None
90	M90						Yes				None
91	M91						Yes	** NA **			None
92	M92						Yes	** NA **			None
93	M93						Yes	** NA **			None
94	M94						Yes	** NA **			None
95	M95						Yes	** NA **			None
96	M96						Yes	** NA **			None
97	MP1						Yes	** NA **			None
98	MP2						Yes	** NA **			None
99	MP3						Yes	** NA **			None
100	MP4						Yes	** NA **			None
101	MP5						Yes	** NA **			None
102	MP6						Yes	** NA **			None
103	MP7						Yes	** NA **			None
104	MP8						Yes	** NA **			None
105	MP9						Yes	** NA **			None
106	MP10						Yes	** NA **			None
107	MP11						Yes	** NA **			None
108	MP12						Yes	** NA **			None

Hot Rolled Steel Design Parameters

	Label	Shape	Length[i...]	Lbyy[in]	Lbzz[in]	Lcomp top[...]	Lcomp bot[...]	L-torque[i...]	Kyy	Kzz	Cb	Functi...
1	M1	Standoffs	62.255	43.75	43.75	43.75	43.75	43.75				Lateral
2	M2	Standoffs	62.255	43.75	43.75	43.75	43.75	43.75				Lateral
3	M3	Standoffs	62.255	43.75	43.75	43.75	43.75	43.75				Lateral
4	M4	Horizontals	150	50.52	50.52	50.52	50.52	50.52				Lateral
5	M5	Horizontals	150	50.52	50.52	50.52	50.52	50.52				Lateral
6	M6	Horizontals	150	50.52	50.52	50.52	50.52	50.52				Lateral
7	M14	Corner Plate	2.704			Lbyy						Lateral
8	M15	Connection Plates	2.704									Lateral
9	M16	Handrail Horizon...	150	50.52	50.52	50.52	50.52	50.52				Lateral
10	M17	Handrail Horizon...	150	50.52	50.52	50.52	50.52	50.52				Lateral
11	M20	Connection Plates	2.704									Lateral
12	M23	Connection Plates	2.75			Lbyy						Lateral
13	M24	Connection Plates	2.704									Lateral
14	M27	Connection Plates	2.75			Lbyy						Lateral
15	M28	Connection Plates	2.704									Lateral
16	M30	Handrail Horizon...	150	50.52	50.52	50.52	50.52	50.52				Lateral
17	M31	Connection Plates	2.75			Lbyy						Lateral
18	M32	Angle Handrail ...	15.731			Lbyy						Lateral
19	M33	Connection Plates	2.704									Lateral
20	M34	Angle Handrail ...	15.731			Lbyy						Lateral
21	M35	Angle Handrail ...	15.731			Lbyy						Lateral
22	M36	Connection Plates	2.75			Lbyy						Lateral
23	M37	Corner Plate	2.704			Lbyy						Lateral
24	M38	Corner Plate	2.704			Lbyy						Lateral
25	M39	Standoffs	30.301			Lbyy						Lateral
26	M43	Standoffs	30.301			Lbyy						Lateral
27	M45	Corner Plate	6.338			Lbyy						Lateral
28	M46	Corner Plate	2.704			Lbyy						Lateral
29	M47	Standoffs	30.301			Lbyy						Lateral
30	M49	Corner Plate	6.338			Lbyy						Lateral
31	M51	Connection Plates	2.704									Lateral
32	M52	Standoffs	30.301			Lbyy						Lateral
33	M54	Corner Plate	6.338			Lbyy						Lateral
34	M55	Kickers	48.765			Lbyy						Lateral
35	M56	Standoffs	30.3			Lbyy						Lateral
36	M58	Corner Plate	6.338			Lbyy						Lateral
37	M59	Connection Plates	2.75			Lbyy						Lateral
38	M60	Standoffs	30.301			Lbyy						Lateral
39	M61	Kickers	48.765			Lbyy						Lateral
40	M62	Corner Plate	2.704			Lbyy						Lateral
41	M63	Platform Angle	51.353			Lbyy						Lateral
42	M67	Platform Angle	51.353			Lbyy						Lateral
43	M69	Corner Plate	2.704			Lbyy						Lateral
44	M70	Platform Angle	51.353			Lbyy						Lateral
45	M73	Platform Angle	51.353			Lbyy						Lateral
46	M75	Corner Plate	6.338			Lbyy						Lateral
47	M76	Platform Angle	51.353			Lbyy						Lateral
48	M77	Kickers	48.765			Lbyy						Lateral
49	M79	Corner Plate	6.338			Lbyy						Lateral
50	M80	Connection Plates	2.75			Lbyy						Lateral
51	M81	Platform Angle	51.353			Lbyy						Lateral
52	M82	Kickers	48.765			Lbyy						Lateral
53	M89	Kickers	48.765			Lbyy						Lateral
54	M90	Kickers	48.765			Lbyy						Lateral
55	MP1	Mount Pipe	96			Lbyy						Lateral
56	MP2	Mount Pipe	96			Lbyy						Lateral

Hot Rolled Steel Design Parameters (Continued)

	Label	Shape	Length[in]	Lbyy[in]	Lbzz[in]	Lcomp top[...]	Lcomp bot[...]	L-torque[...]	Kyy	Kzz	Cb	Funci...
57	MP3	Mount Pipe	96			Lbyy						Lateral
58	MP4	Mount Pipe	96			Lbyy						Lateral
59	MP5	Mount Pipe	96			Lbyy						Lateral
60	MP6	Mount Pipe	96			Lbyy						Lateral
61	MP7	Mount Pipe	96			Lbyy						Lateral
62	MP8	Mount Pipe	96			Lbyy						Lateral
63	MP9	Mount Pipe	96			Lbyy						Lateral
64	MP10	Mount Pipe	96			Lbyy						Lateral
65	MP11	Mount Pipe	96			Lbyy						Lateral
66	MP12	Mount Pipe	96			Lbyy						Lateral

Member Point Loads (BLC 1 : Self Weight)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP1	Y	-17.5	21
2	MP1	Y	-17.5	69
3	MP3	Y	-39.7	12
4	MP3	Y	-39.7	84
5	MP4	Y	-39.7	12
6	MP4	Y	-39.7	84
7	MP3	Y	-59.9	78
8	MP4	Y	-71	48
9	MP4	Y	-72	48
10	MP1	Y	-17.5	78
11	MP1	Y	-17.5	78
12	MP5	Y	-17.5	21
13	MP5	Y	-17.5	69
14	MP7	Y	-39.7	12
15	MP7	Y	-39.7	84
16	MP8	Y	-39.7	12
17	MP8	Y	-39.7	84
18	MP7	Y	-59.9	78
19	MP8	Y	-71	48
20	MP8	Y	-72	48
21	MP5	Y	-17.5	78
22	MP5	Y	-17.5	78
23	MP12	Y	-17.5	21
24	MP12	Y	-17.5	69
25	MP9	Y	-39.7	12
26	MP9	Y	-39.7	84
27	MP10	Y	-39.7	12
28	MP10	Y	-39.7	84
29	MP9	Y	-59.9	78
30	MP10	Y	-71	48
31	MP10	Y	-72	48
32	MP12	Y	-17.5	78
33	MP12	Y	-17.5	78

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP1	X	0	21
2	MP1	Z	-108.03	21
3	MP1	X	0	69
4	MP1	Z	-108.03	69
5	MP3	X	0	12
6	MP3	Z	-249.25	12

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in.-%]
7	MP3	X	0	84
8	MP3	Z	-249.25	84
9	MP4	X	0	12
10	MP4	Z	-249.25	12
11	MP4	X	0	84
12	MP4	Z	-249.25	84
13	MP3	X	0	78
14	MP3	Z	-72.27	78
15	MP4	X	0	48
16	MP4	Z	-77.17	48
17	MP4	X	0	48
18	MP4	Z	-64.29	48
19	MP1	X	0	78
20	MP1	Z	-32.03	78
21	MP1	X	0	78
22	MP1	Z	-32.03	78
23	MP5	X	0	21
24	MP5	Z	-70.08	21
25	MP5	X	0	69
26	MP5	Z	-70.08	69
27	MP7	X	0	12
28	MP7	Z	-144.91	12
29	MP7	X	0	84
30	MP7	Z	-144.91	84
31	MP8	X	0	12
32	MP8	Z	-144.91	12
33	MP8	X	0	84
34	MP8	Z	-144.91	84
35	MP7	X	0	78
36	MP7	Z	-49.21	78
37	MP8	X	0	48
38	MP8	Z	-60.72	48
39	MP8	X	0	48
40	MP8	Z	-55.89	48
41	MP5	X	0	78
42	MP5	Z	-32.72	78
43	MP5	X	0	78
44	MP5	Z	-32.72	78
45	MP12	X	0	21
46	MP12	Z	-70.08	21
47	MP12	X	0	69
48	MP12	Z	-70.08	69
49	MP9	X	0	12
50	MP9	Z	-167.61	12
51	MP9	X	0	84
52	MP9	Z	-167.61	84
53	MP10	X	0	12
54	MP10	Z	-167.61	12
55	MP10	X	0	84
56	MP10	Z	-167.61	84
57	MP9	X	0	78
58	MP9	Z	-54.23	78
59	MP10	X	0	48
60	MP10	Z	-64.3	48
61	MP10	X	0	48
62	MP10	Z	-57.71	48
63	MP12	X	0	78

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in,%]
64	MP12	Z	-32.57	78
65	MP12	X	0	78
66	MP12	Z	-32.57	78

Member Point Loads (BLC 3 : Wind Load AZI 30)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in,%]
1	MP1	X	-47.69	21
2	MP1	Z	-82.6	21
3	MP1	X	-47.69	69
4	MP1	Z	-82.6	69
5	MP3	X	-107.23	12
6	MP3	Z	-185.74	12
7	MP3	X	-107.23	84
8	MP3	Z	-185.74	84
9	MP4	X	-107.23	12
10	MP4	Z	-185.74	12
11	MP4	X	-107.23	84
12	MP4	Z	-185.74	84
13	MP3	X	-32.29	78
14	MP3	Z	-55.93	78
15	MP4	X	-35.84	48
16	MP4	Z	-62.08	48
17	MP4	X	-30.74	48
18	MP4	Z	-53.25	48
19	MP1	X	-16.13	78
20	MP1	Z	-27.94	78
21	MP1	X	-16.13	78
22	MP1	Z	-27.94	78
23	MP5	X	-47.69	21
24	MP5	Z	-82.6	21
25	MP5	X	-47.69	69
26	MP5	Z	-82.6	69
27	MP7	X	-107.23	12
28	MP7	Z	-185.74	12
29	MP7	X	-107.23	84
30	MP7	Z	-185.74	84
31	MP8	X	-107.23	12
32	MP8	Z	-185.74	12
33	MP8	X	-107.23	84
34	MP8	Z	-185.74	84
35	MP7	X	-32.29	78
36	MP7	Z	-55.93	78
37	MP8	X	-35.84	48
38	MP8	Z	-62.08	48
39	MP8	X	-30.74	48
40	MP8	Z	-53.25	48
41	MP5	X	-16.13	78
42	MP5	Z	-27.94	78
43	MP5	X	-16.13	78
44	MP5	Z	-27.94	78
45	MP12	X	-28.71	21
46	MP12	Z	-49.73	21
47	MP12	X	-28.71	69
48	MP12	Z	-49.73	69
49	MP9	X	-57.16	12
50	MP9	Z	-99	12

Member Point Loads (BLC 3 : Wind Load AZI 30) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in.-%]
51	MP9	X	-57.16	84
52	MP9	Z	-99	84
53	MP10	X	-57.16	12
54	MP10	Z	-99	12
55	MP10	X	-57.16	84
56	MP10	Z	-99	84
57	MP9	X	-21.23	78
58	MP9	Z	-36.77	78
59	MP10	X	-27.95	48
60	MP10	Z	-48.4	48
61	MP10	X	-26.71	48
62	MP10	Z	-46.27	48
63	MP12	X	-16.46	78
64	MP12	Z	-28.51	78
65	MP12	X	-16.46	78
66	MP12	Z	-28.51	78

Member Point Loads (BLC 4 : Wind Load AZI 60)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in.-%]
1	MP1	X	-60.69	21
2	MP1	Z	-35.04	21
3	MP1	X	-60.69	69
4	MP1	Z	-35.04	69
5	MP3	X	-125.49	12
6	MP3	Z	-72.45	12
7	MP3	X	-125.49	84
8	MP3	Z	-72.45	84
9	MP4	X	-125.49	12
10	MP4	Z	-72.45	12
11	MP4	X	-125.49	84
12	MP4	Z	-72.45	84
13	MP3	X	-42.62	78
14	MP3	Z	-24.61	78
15	MP4	X	-52.58	48
16	MP4	Z	-30.36	48
17	MP4	X	-48.4	48
18	MP4	Z	-27.94	48
19	MP1	X	-28.34	78
20	MP1	Z	-16.36	78
21	MP1	X	-28.34	78
22	MP1	Z	-16.36	78
23	MP5	X	-93.56	21
24	MP5	Z	-54.01	21
25	MP5	X	-93.56	69
26	MP5	Z	-54.01	69
27	MP7	X	-215.86	12
28	MP7	Z	-124.63	12
29	MP7	X	-215.86	84
30	MP7	Z	-124.63	84
31	MP8	X	-215.86	12
32	MP8	Z	-124.63	12
33	MP8	X	-215.86	84
34	MP8	Z	-124.63	84
35	MP7	X	-62.59	78
36	MP7	Z	-36.13	78
37	MP8	X	-66.83	48

Member Point Loads (BLC 4 : Wind Load AZI 60) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in.-%]
38	MP8	Z	-38.59	48
39	MP8	X	-55.67	48
40	MP8	Z	-32.14	48
41	MP5	X	-27.74	78
42	MP5	Z	-16.02	78
43	MP5	X	-27.74	78
44	MP5	Z	-16.02	78
45	MP12	X	-60.69	21
46	MP12	Z	-35.04	21
47	MP12	X	-60.69	69
48	MP12	Z	-35.04	69
49	MP9	X	-109.46	12
50	MP9	Z	-63.2	12
51	MP9	X	-109.46	84
52	MP9	Z	-63.2	84
53	MP10	X	-109.46	12
54	MP10	Z	-63.2	12
55	MP10	X	-109.46	84
56	MP10	Z	-63.2	84
57	MP9	X	-39.08	78
58	MP9	Z	-22.56	78
59	MP10	X	-50.05	48
60	MP10	Z	-28.9	48
61	MP10	X	-47.11	48
62	MP10	Z	-27.2	48
63	MP12	X	-28.44	78
64	MP12	Z	-16.42	78
65	MP12	X	-28.44	78
66	MP12	Z	-16.42	78

Member Point Loads (BLC 5 : Wind Load AZI 90)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in.-%]
1	MP1	X	-57.43	21
2	MP1	Z	0	21
3	MP1	X	-57.43	69
4	MP1	Z	0	69
5	MP3	X	-110.12	12
6	MP3	Z	0	12
7	MP3	X	-110.12	84
8	MP3	Z	0	84
9	MP4	X	-110.12	12
10	MP4	Z	0	12
11	MP4	X	-110.12	84
12	MP4	Z	0	84
13	MP3	X	-41.53	78
14	MP3	Z	0	78
15	MP4	X	-55.23	48
16	MP4	Z	0	48
17	MP4	X	-53.09	48
18	MP4	Z	0	48
19	MP1	X	-32.95	78
20	MP1	Z	0	78
21	MP1	X	-32.95	78
22	MP1	Z	0	78
23	MP5	X	-95.38	21
24	MP5	Z	0	21

Member Point Loads (BLC 5 : Wind Load AZI 90) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in,%]
25	MP5	X	-95.38	69
26	MP5	Z	0	69
27	MP7	X	-214.47	12
28	MP7	Z	0	12
29	MP7	X	-214.47	84
30	MP7	Z	0	84
31	MP8	X	-214.47	12
32	MP8	Z	0	12
33	MP8	X	-214.47	84
34	MP8	Z	0	84
35	MP7	X	-64.58	78
36	MP7	Z	0	78
37	MP8	X	-71.69	48
38	MP8	Z	0	48
39	MP8	X	-61.49	48
40	MP8	Z	0	48
41	MP5	X	-32.26	78
42	MP5	Z	0	78
43	MP5	X	-32.26	78
44	MP5	Z	0	78
45	MP12	X	-95.38	21
46	MP12	Z	0	21
47	MP12	X	-95.38	69
48	MP12	Z	0	69
49	MP9	X	-191.77	12
50	MP9	Z	0	12
51	MP9	X	-191.77	84
52	MP9	Z	0	84
53	MP10	X	-191.77	12
54	MP10	Z	0	12
55	MP10	X	-191.77	84
56	MP10	Z	0	84
57	MP9	X	-59.57	78
58	MP9	Z	0	78
59	MP10	X	-68.11	48
60	MP10	Z	0	48
61	MP10	X	-59.66	48
62	MP10	Z	0	48
63	MP12	X	-32.41	78
64	MP12	Z	0	78
65	MP12	X	-32.41	78
66	MP12	Z	0	78

Member Point Loads (BLC 6 : Wind Load AZI 120)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in,%]
1	MP1	X	-60.69	21
2	MP1	Z	35.04	21
3	MP1	X	-60.69	69
4	MP1	Z	35.04	69
5	MP3	X	-125.49	12
6	MP3	Z	72.45	12
7	MP3	X	-125.49	84
8	MP3	Z	72.45	84
9	MP4	X	-125.49	12
10	MP4	Z	72.45	12
11	MP4	X	-125.49	84

Member Point Loads (BLC 6 : Wind Load AZI 120) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in,%]
12	MP4	Z	72.45	84
13	MP3	X	-42.62	78
14	MP3	Z	24.61	78
15	MP4	X	-52.58	48
16	MP4	Z	30.36	48
17	MP4	X	-48.4	48
18	MP4	Z	27.94	48
19	MP1	X	-28.34	78
20	MP1	Z	16.36	78
21	MP1	X	-28.34	78
22	MP1	Z	16.36	78
23	MP5	X	-60.69	21
24	MP5	Z	35.04	21
25	MP5	X	-60.69	69
26	MP5	Z	35.04	69
27	MP7	X	-125.49	12
28	MP7	Z	72.45	12
29	MP7	X	-125.49	84
30	MP7	Z	72.45	84
31	MP8	X	-125.49	12
32	MP8	Z	72.45	12
33	MP8	X	-125.49	84
34	MP8	Z	72.45	84
35	MP7	X	-42.62	78
36	MP7	Z	24.61	78
37	MP8	X	-52.58	48
38	MP8	Z	30.36	48
39	MP8	X	-48.4	48
40	MP8	Z	27.94	48
41	MP5	X	-28.34	78
42	MP5	Z	16.36	78
43	MP5	X	-28.34	78
44	MP5	Z	16.36	78
45	MP12	X	-93.56	21
46	MP12	Z	54.01	21
47	MP12	X	-93.56	69
48	MP12	Z	54.01	69
49	MP9	X	-212.22	12
50	MP9	Z	122.53	12
51	MP9	X	-212.22	84
52	MP9	Z	122.53	84
53	MP10	X	-212.22	12
54	MP10	Z	122.53	12
55	MP10	X	-212.22	84
56	MP10	Z	122.53	84
57	MP9	X	-61.78	78
58	MP9	Z	35.67	78
59	MP10	X	-66.26	48
60	MP10	Z	38.25	48
61	MP10	X	-55.38	48
62	MP10	Z	31.97	48
63	MP12	X	-27.76	78
64	MP12	Z	16.03	78
65	MP12	X	-27.76	78
66	MP12	Z	16.03	78

Member Point Loads (BLC 7 : Wind Load AZI 150)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in.-%]
1	MP1	X	-47.69	21
2	MP1	Z	82.6	21
3	MP1	X	-47.69	69
4	MP1	Z	82.6	69
5	MP3	X	-107.23	12
6	MP3	Z	185.74	12
7	MP3	X	-107.23	84
8	MP3	Z	185.74	84
9	MP4	X	-107.23	12
10	MP4	Z	185.74	12
11	MP4	X	-107.23	84
12	MP4	Z	185.74	84
13	MP3	X	-32.29	78
14	MP3	Z	55.93	78
15	MP4	X	-35.84	48
16	MP4	Z	62.08	48
17	MP4	X	-30.74	48
18	MP4	Z	53.25	48
19	MP1	X	-16.13	78
20	MP1	Z	27.94	78
21	MP1	X	-16.13	78
22	MP1	Z	27.94	78
23	MP5	X	-28.71	21
24	MP5	Z	49.73	21
25	MP5	X	-28.71	69
26	MP5	Z	49.73	69
27	MP7	X	-55.06	12
28	MP7	Z	95.37	12
29	MP7	X	-55.06	84
30	MP7	Z	95.37	84
31	MP8	X	-55.06	12
32	MP8	Z	95.37	12
33	MP8	X	-55.06	84
34	MP8	Z	95.37	84
35	MP7	X	-20.76	78
36	MP7	Z	35.96	78
37	MP8	X	-27.62	48
38	MP8	Z	47.83	48
39	MP8	X	-26.54	48
40	MP8	Z	45.97	48
41	MP5	X	-16.47	78
42	MP5	Z	28.53	78
43	MP5	X	-16.47	78
44	MP5	Z	28.53	78
45	MP12	X	-47.69	21
46	MP12	Z	82.6	21
47	MP12	X	-47.69	69
48	MP12	Z	82.6	69
49	MP9	X	-116.49	12
50	MP9	Z	201.76	12
51	MP9	X	-116.49	84
52	MP9	Z	201.76	84
53	MP10	X	-116.49	12
54	MP10	Z	201.76	12
55	MP10	X	-116.49	84
56	MP10	Z	201.76	84
57	MP9	X	-34.34	78

Member Point Loads (BLC 7 : Wind Load AZI 150) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in.-%]
58	MP9	Z	59.47	78
59	MP10	X	-37.3	48
60	MP10	Z	64.61	48
61	MP10	X	-31.49	48
62	MP10	Z	54.54	48
63	MP12	X	-16.07	78
64	MP12	Z	27.83	78
65	MP12	X	-16.07	78
66	MP12	Z	27.83	78

Member Point Loads (BLC 8 : Wind Load AZI 180)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in.-%]
1	MP1	X	0	21
2	MP1	Z	108.03	21
3	MP1	X	0	69
4	MP1	Z	108.03	69
5	MP3	X	0	12
6	MP3	Z	249.25	12
7	MP3	X	0	84
8	MP3	Z	249.25	84
9	MP4	X	0	12
10	MP4	Z	249.25	12
11	MP4	X	0	84
12	MP4	Z	249.25	84
13	MP3	X	0	78
14	MP3	Z	72.27	78
15	MP4	X	0	48
16	MP4	Z	77.17	48
17	MP4	X	0	48
18	MP4	Z	64.29	48
19	MP1	X	0	78
20	MP1	Z	32.03	78
21	MP1	X	0	78
22	MP1	Z	32.03	78
23	MP5	X	0	21
24	MP5	Z	70.08	21
25	MP5	X	0	69
26	MP5	Z	70.08	69
27	MP7	X	0	12
28	MP7	Z	144.91	12
29	MP7	X	0	84
30	MP7	Z	144.91	84
31	MP8	X	0	12
32	MP8	Z	144.91	12
33	MP8	X	0	84
34	MP8	Z	144.91	84
35	MP7	X	0	78
36	MP7	Z	49.21	78
37	MP8	X	0	48
38	MP8	Z	60.72	48
39	MP8	X	0	48
40	MP8	Z	55.89	48
41	MP5	X	0	78
42	MP5	Z	32.72	78
43	MP5	X	0	78
44	MP5	Z	32.72	78

Member Point Loads (BLC 8 : Wind Load AZI 180) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in, %]
45	MP12	X	0	21
46	MP12	Z	70.08	21
47	MP12	X	0	69
48	MP12	Z	70.08	69
49	MP9	X	0	12
50	MP9	Z	167.61	12
51	MP9	X	0	84
52	MP9	Z	167.61	84
53	MP10	X	0	12
54	MP10	Z	167.61	12
55	MP10	X	0	84
56	MP10	Z	167.61	84
57	MP9	X	0	78
58	MP9	Z	54.23	78
59	MP10	X	0	48
60	MP10	Z	64.3	48
61	MP10	X	0	48
62	MP10	Z	57.71	48
63	MP12	X	0	78
64	MP12	Z	32.57	78
65	MP12	X	0	78
66	MP12	Z	32.57	78

Member Point Loads (BLC 9 : Wind Load AZI 210)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in, %]
1	MP1	X	47.69	21
2	MP1	Z	82.6	21
3	MP1	X	47.69	69
4	MP1	Z	82.6	69
5	MP3	X	107.23	12
6	MP3	Z	185.74	12
7	MP3	X	107.23	84
8	MP3	Z	185.74	84
9	MP4	X	107.23	12
10	MP4	Z	185.74	12
11	MP4	X	107.23	84
12	MP4	Z	185.74	84
13	MP3	X	32.29	78
14	MP3	Z	55.93	78
15	MP4	X	35.84	48
16	MP4	Z	62.08	48
17	MP4	X	30.74	48
18	MP4	Z	53.25	48
19	MP1	X	16.13	78
20	MP1	Z	27.94	78
21	MP1	X	16.13	78
22	MP1	Z	27.94	78
23	MP5	X	47.69	21
24	MP5	Z	82.6	21
25	MP5	X	47.69	69
26	MP5	Z	82.6	69
27	MP7	X	107.23	12
28	MP7	Z	185.74	12
29	MP7	X	107.23	84
30	MP7	Z	185.74	84
31	MP8	X	107.23	12

Member Point Loads (BLC 9 : Wind Load AZI 210) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in.-%]
32	MP8	Z	185.74	12
33	MP8	X	107.23	84
34	MP8	Z	185.74	84
35	MP7	X	32.29	78
36	MP7	Z	55.93	78
37	MP8	X	35.84	48
38	MP8	Z	62.08	48
39	MP8	X	30.74	48
40	MP8	Z	53.25	48
41	MP5	X	16.13	78
42	MP5	Z	27.94	78
43	MP5	X	16.13	78
44	MP5	Z	27.94	78
45	MP12	X	28.71	21
46	MP12	Z	49.73	21
47	MP12	X	28.71	69
48	MP12	Z	49.73	69
49	MP9	X	57.16	12
50	MP9	Z	99	12
51	MP9	X	57.16	84
52	MP9	Z	99	84
53	MP10	X	57.16	12
54	MP10	Z	99	12
55	MP10	X	57.16	84
56	MP10	Z	99	84
57	MP9	X	21.23	78
58	MP9	Z	36.77	78
59	MP10	X	27.95	48
60	MP10	Z	48.4	48
61	MP10	X	26.71	48
62	MP10	Z	46.27	48
63	MP12	X	16.46	78
64	MP12	Z	28.51	78
65	MP12	X	16.46	78
66	MP12	Z	28.51	78

Member Point Loads (BLC 10 : Wind Load AZI 240)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in.-%]
1	MP1	X	60.69	21
2	MP1	Z	35.04	21
3	MP1	X	60.69	69
4	MP1	Z	35.04	69
5	MP3	X	125.49	12
6	MP3	Z	72.45	12
7	MP3	X	125.49	84
8	MP3	Z	72.45	84
9	MP4	X	125.49	12
10	MP4	Z	72.45	12
11	MP4	X	125.49	84
12	MP4	Z	72.45	84
13	MP3	X	42.62	78
14	MP3	Z	24.61	78
15	MP4	X	52.58	48
16	MP4	Z	30.36	48
17	MP4	X	48.4	48
18	MP4	Z	27.94	48

Member Point Loads (BLC 10 : Wind Load AZI 240) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in.-%]
19	MP1	X	28.34	78
20	MP1	Z	16.36	78
21	MP1	X	28.34	78
22	MP1	Z	16.36	78
23	MP5	X	93.56	21
24	MP5	Z	54.01	21
25	MP5	X	93.56	69
26	MP5	Z	54.01	69
27	MP7	X	215.86	12
28	MP7	Z	124.63	12
29	MP7	X	215.86	84
30	MP7	Z	124.63	84
31	MP8	X	215.86	12
32	MP8	Z	124.63	12
33	MP8	X	215.86	84
34	MP8	Z	124.63	84
35	MP7	X	62.59	78
36	MP7	Z	36.13	78
37	MP8	X	66.83	48
38	MP8	Z	38.59	48
39	MP8	X	55.67	48
40	MP8	Z	32.14	48
41	MP5	X	27.74	78
42	MP5	Z	16.02	78
43	MP5	X	27.74	78
44	MP5	Z	16.02	78
45	MP12	X	60.69	21
46	MP12	Z	35.04	21
47	MP12	X	60.69	69
48	MP12	Z	35.04	69
49	MP9	X	109.46	12
50	MP9	Z	63.2	12
51	MP9	X	109.46	84
52	MP9	Z	63.2	84
53	MP10	X	109.46	12
54	MP10	Z	63.2	12
55	MP10	X	109.46	84
56	MP10	Z	63.2	84
57	MP9	X	39.08	78
58	MP9	Z	22.56	78
59	MP10	X	50.05	48
60	MP10	Z	28.9	48
61	MP10	X	47.11	48
62	MP10	Z	27.2	48
63	MP12	X	28.44	78
64	MP12	Z	16.42	78
65	MP12	X	28.44	78
66	MP12	Z	16.42	78

Member Point Loads (BLC 11 : Wind Load AZI 270)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in.-%]
1	MP1	X	57.43	21
2	MP1	Z	0	21
3	MP1	X	57.43	69
4	MP1	Z	0	69
5	MP3	X	110.12	12

Member Point Loads (BLC 11 : Wind Load AZI 270) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in,%]
6	MP3	Z	0	12
7	MP3	X	110.12	84
8	MP3	Z	0	84
9	MP4	X	110.12	12
10	MP4	Z	0	12
11	MP4	X	110.12	84
12	MP4	Z	0	84
13	MP3	X	41.53	78
14	MP3	Z	0	78
15	MP4	X	55.23	48
16	MP4	Z	0	48
17	MP4	X	53.09	48
18	MP4	Z	0	48
19	MP1	X	32.95	78
20	MP1	Z	0	78
21	MP1	X	32.95	78
22	MP1	Z	0	78
23	MP5	X	95.38	21
24	MP5	Z	0	21
25	MP5	X	95.38	69
26	MP5	Z	0	69
27	MP7	X	214.47	12
28	MP7	Z	0	12
29	MP7	X	214.47	84
30	MP7	Z	0	84
31	MP8	X	214.47	12
32	MP8	Z	0	12
33	MP8	X	214.47	84
34	MP8	Z	0	84
35	MP7	X	64.58	78
36	MP7	Z	0	78
37	MP8	X	71.69	48
38	MP8	Z	0	48
39	MP8	X	61.49	48
40	MP8	Z	0	48
41	MP5	X	32.26	78
42	MP5	Z	0	78
43	MP5	X	32.26	78
44	MP5	Z	0	78
45	MP12	X	95.38	21
46	MP12	Z	0	21
47	MP12	X	95.38	69
48	MP12	Z	0	69
49	MP9	X	191.77	12
50	MP9	Z	0	12
51	MP9	X	191.77	84
52	MP9	Z	0	84
53	MP10	X	191.77	12
54	MP10	Z	0	12
55	MP10	X	191.77	84
56	MP10	Z	0	84
57	MP9	X	59.57	78
58	MP9	Z	0	78
59	MP10	X	68.11	48
60	MP10	Z	0	48
61	MP10	X	59.66	48
62	MP10	Z	0	48

Member Point Loads (BLC 11 : Wind Load AZI 270) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in.-%]
63	MP12	X	32.41	78
64	MP12	Z	0	78
65	MP12	X	32.41	78
66	MP12	Z	0	78

Member Point Loads (BLC 12 : Wind Load AZI 300)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in.-%]
1	MP1	X	60.69	21
2	MP1	Z	-35.04	21
3	MP1	X	60.69	69
4	MP1	Z	-35.04	69
5	MP3	X	125.49	12
6	MP3	Z	-72.45	12
7	MP3	X	125.49	84
8	MP3	Z	-72.45	84
9	MP4	X	125.49	12
10	MP4	Z	-72.45	12
11	MP4	X	125.49	84
12	MP4	Z	-72.45	84
13	MP3	X	42.62	78
14	MP3	Z	-24.61	78
15	MP4	X	52.58	48
16	MP4	Z	-30.36	48
17	MP4	X	48.4	48
18	MP4	Z	-27.94	48
19	MP1	X	28.34	78
20	MP1	Z	-16.36	78
21	MP1	X	28.34	78
22	MP1	Z	-16.36	78
23	MP5	X	60.69	21
24	MP5	Z	-35.04	21
25	MP5	X	60.69	69
26	MP5	Z	-35.04	69
27	MP7	X	125.49	12
28	MP7	Z	-72.45	12
29	MP7	X	125.49	84
30	MP7	Z	-72.45	84
31	MP8	X	125.49	12
32	MP8	Z	-72.45	12
33	MP8	X	125.49	84
34	MP8	Z	-72.45	84
35	MP7	X	42.62	78
36	MP7	Z	-24.61	78
37	MP8	X	52.58	48
38	MP8	Z	-30.36	48
39	MP8	X	48.4	48
40	MP8	Z	-27.94	48
41	MP5	X	28.34	78
42	MP5	Z	-16.36	78
43	MP5	X	28.34	78
44	MP5	Z	-16.36	78
45	MP12	X	93.56	21
46	MP12	Z	-54.01	21
47	MP12	X	93.56	69
48	MP12	Z	-54.01	69
49	MP9	X	212.22	12

Member Point Loads (BLC 12 : Wind Load AZI 300) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in,%]
50	MP9	Z	-122.53	12
51	MP9	X	212.22	84
52	MP9	Z	-122.53	84
53	MP10	X	212.22	12
54	MP10	Z	-122.53	12
55	MP10	X	212.22	84
56	MP10	Z	-122.53	84
57	MP9	X	61.78	78
58	MP9	Z	-35.67	78
59	MP10	X	66.26	48
60	MP10	Z	-38.25	48
61	MP10	X	55.38	48
62	MP10	Z	-31.97	48
63	MP12	X	27.76	78
64	MP12	Z	-16.03	78
65	MP12	X	27.76	78
66	MP12	Z	-16.03	78

Member Point Loads (BLC 13 : Wind Load AZI 330)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in,%]
1	MP1	X	47.69	21
2	MP1	Z	-82.6	21
3	MP1	X	47.69	69
4	MP1	Z	-82.6	69
5	MP3	X	107.23	12
6	MP3	Z	-185.74	12
7	MP3	X	107.23	84
8	MP3	Z	-185.74	84
9	MP4	X	107.23	12
10	MP4	Z	-185.74	12
11	MP4	X	107.23	84
12	MP4	Z	-185.74	84
13	MP3	X	32.29	78
14	MP3	Z	-55.93	78
15	MP4	X	35.84	48
16	MP4	Z	-62.08	48
17	MP4	X	30.74	48
18	MP4	Z	-53.25	48
19	MP1	X	16.13	78
20	MP1	Z	-27.94	78
21	MP1	X	16.13	78
22	MP1	Z	-27.94	78
23	MP5	X	28.71	21
24	MP5	Z	-49.73	21
25	MP5	X	28.71	69
26	MP5	Z	-49.73	69
27	MP7	X	55.06	12
28	MP7	Z	-95.37	12
29	MP7	X	55.06	84
30	MP7	Z	-95.37	84
31	MP8	X	55.06	12
32	MP8	Z	-95.37	12
33	MP8	X	55.06	84
34	MP8	Z	-95.37	84
35	MP7	X	20.76	78
36	MP7	Z	-35.96	78

Member Point Loads (BLC 13 : Wind Load AZI 330) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in.-%]
37	MP8	X	27.62	48
38	MP8	Z	-47.83	48
39	MP8	X	26.54	48
40	MP8	Z	-45.97	48
41	MP5	X	16.47	78
42	MP5	Z	-28.53	78
43	MP5	X	16.47	78
44	MP5	Z	-28.53	78
45	MP12	X	47.69	21
46	MP12	Z	-82.6	21
47	MP12	X	47.69	69
48	MP12	Z	-82.6	69
49	MP9	X	116.49	12
50	MP9	Z	-201.76	12
51	MP9	X	116.49	84
52	MP9	Z	-201.76	84
53	MP10	X	116.49	12
54	MP10	Z	-201.76	12
55	MP10	X	116.49	84
56	MP10	Z	-201.76	84
57	MP9	X	34.34	78
58	MP9	Z	-59.47	78
59	MP10	X	37.3	48
60	MP10	Z	-64.61	48
61	MP10	X	31.49	48
62	MP10	Z	-54.54	48
63	MP12	X	16.07	78
64	MP12	Z	-27.83	78
65	MP12	X	16.07	78
66	MP12	Z	-27.83	78

Member Point Loads (BLC 16 : Ice Weight)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in.-%]
1	MP1	Y	-66.839	21
2	MP1	Y	-66.839	69
3	MP3	Y	-142.245	12
4	MP3	Y	-142.245	84
5	MP4	Y	-142.245	12
6	MP4	Y	-142.245	84
7	MP3	Y	-66.512	78
8	MP4	Y	-76.42	48
9	MP4	Y	-72.843	48
10	MP1	Y	-40.209	78
11	MP1	Y	-40.209	78
12	MP5	Y	-66.839	21
13	MP5	Y	-66.839	69
14	MP7	Y	-142.245	12
15	MP7	Y	-142.245	84
16	MP8	Y	-142.245	12
17	MP8	Y	-142.245	84
18	MP7	Y	-66.512	78
19	MP8	Y	-76.42	48
20	MP8	Y	-72.843	48
21	MP5	Y	-40.209	78
22	MP5	Y	-40.209	78
23	MP12	Y	-66.839	21

Member Point Loads (BLC 16 : Ice Weight) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in.-%]
24	MP12	Y	-66.839	69
25	MP9	Y	-142.245	12
26	MP9	Y	-142.245	84
27	MP10	Y	-142.245	12
28	MP10	Y	-142.245	84
29	MP9	Y	-66.512	78
30	MP10	Y	-76.42	48
31	MP10	Y	-72.843	48
32	MP12	Y	-40.209	78
33	MP12	Y	-40.209	78

Member Point Loads (BLC 17 : Ice Wind Load AZI 0)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in.-%]
1	MP1	X	0	21
2	MP1	Z	-10.11	21
3	MP1	X	0	69
4	MP1	Z	-10.11	69
5	MP3	X	0	12
6	MP3	Z	-18.65	12
7	MP3	X	0	84
8	MP3	Z	-18.65	84
9	MP4	X	0	12
10	MP4	Z	-18.65	12
11	MP4	X	0	84
12	MP4	Z	-18.65	84
13	MP3	X	0	78
14	MP3	Z	-7.04	78
15	MP4	X	0	48
16	MP4	Z	-7.48	48
17	MP4	X	0	48
18	MP4	Z	-6.43	48
19	MP1	X	0	78
20	MP1	Z	-4.81	78
21	MP1	X	0	78
22	MP1	Z	-4.81	78
23	MP5	X	0	21
24	MP5	Z	-8.49	21
25	MP5	X	0	69
26	MP5	Z	-8.49	69
27	MP7	X	0	12
28	MP7	Z	-13.83	12
29	MP7	X	0	84
30	MP7	Z	-13.83	84
31	MP8	X	0	12
32	MP8	Z	-13.83	12
33	MP8	X	0	84
34	MP8	Z	-13.83	84
35	MP7	X	0	78
36	MP7	Z	-6.03	78
37	MP8	X	0	48
38	MP8	Z	-6.79	48
39	MP8	X	0	48
40	MP8	Z	-6.08	48
41	MP5	X	0	78
42	MP5	Z	-4.85	78
43	MP5	X	0	78

Member Point Loads (BLC 17 : Ice Wind Load AZI 0) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in,%]
44	MP5	Z	-4.85	78
45	MP12	X	0	21
46	MP12	Z	-8.49	21
47	MP12	X	0	69
48	MP12	Z	-8.49	69
49	MP9	X	0	12
50	MP9	Z	-14.87	12
51	MP9	X	0	84
52	MP9	Z	-14.87	84
53	MP10	X	0	12
54	MP10	Z	-14.87	12
55	MP10	X	0	84
56	MP10	Z	-14.87	84
57	MP9	X	0	78
58	MP9	Z	-6.25	78
59	MP10	X	0	48
60	MP10	Z	-6.94	48
61	MP10	X	0	48
62	MP10	Z	-6.16	48
63	MP12	X	0	78
64	MP12	Z	-4.84	78
65	MP12	X	0	78
66	MP12	Z	-4.84	78

Member Point Loads (BLC 18 : Ice Wind Load AZI 30)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in,%]
1	MP1	X	-4.79	21
2	MP1	Z	-8.29	21
3	MP1	X	-4.79	69
4	MP1	Z	-8.29	69
5	MP3	X	-8.52	12
6	MP3	Z	-14.76	12
7	MP3	X	-8.52	84
8	MP3	Z	-14.76	84
9	MP4	X	-8.52	12
10	MP4	Z	-14.76	12
11	MP4	X	-8.52	84
12	MP4	Z	-14.76	84
13	MP3	X	-3.35	78
14	MP3	Z	-5.8	78
15	MP4	X	-3.63	48
16	MP4	Z	-6.28	48
17	MP4	X	-3.16	48
18	MP4	Z	-5.47	48
19	MP1	X	-2.41	78
20	MP1	Z	-4.18	78
21	MP1	X	-2.41	78
22	MP1	Z	-4.18	78
23	MP5	X	-4.79	21
24	MP5	Z	-8.29	21
25	MP5	X	-4.79	69
26	MP5	Z	-8.29	69
27	MP7	X	-8.52	12
28	MP7	Z	-14.76	12
29	MP7	X	-8.52	84
30	MP7	Z	-14.76	84

Member Point Loads (BLC 18 : Ice Wind Load AZI 30) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in.-%]
31	MP8	X	-8.52	12
32	MP8	Z	-14.76	12
33	MP8	X	-8.52	84
34	MP8	Z	-14.76	84
35	MP7	X	-3.35	78
36	MP7	Z	-5.8	78
37	MP8	X	-3.63	48
38	MP8	Z	-6.28	48
39	MP8	X	-3.16	48
40	MP8	Z	-5.47	48
41	MP5	X	-2.41	78
42	MP5	Z	-4.18	78
43	MP5	X	-2.41	78
44	MP5	Z	-4.18	78
45	MP12	X	-3.98	21
46	MP12	Z	-6.89	21
47	MP12	X	-3.98	69
48	MP12	Z	-6.89	69
49	MP9	X	-6.21	12
50	MP9	Z	-10.75	12
51	MP9	X	-6.21	84
52	MP9	Z	-10.75	84
53	MP10	X	-6.21	12
54	MP10	Z	-10.75	12
55	MP10	X	-6.21	84
56	MP10	Z	-10.75	84
57	MP9	X	-2.87	78
58	MP9	Z	-4.96	78
59	MP10	X	-3.29	48
60	MP10	Z	-5.71	48
61	MP10	X	-2.99	48
62	MP10	Z	-5.17	48
63	MP12	X	-2.43	78
64	MP12	Z	-4.21	78
65	MP12	X	-2.43	78
66	MP12	Z	-4.21	78

Member Point Loads (BLC 19 : Ice Wind Load AZI 60)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in.-%]
1	MP1	X	-7.35	21
2	MP1	Z	-4.25	21
3	MP1	X	-7.35	69
4	MP1	Z	-4.25	69
5	MP3	X	-11.97	12
6	MP3	Z	-6.91	12
7	MP3	X	-11.97	84
8	MP3	Z	-6.91	84
9	MP4	X	-11.97	12
10	MP4	Z	-6.91	12
11	MP4	X	-11.97	84
12	MP4	Z	-6.91	84
13	MP3	X	-5.22	78
14	MP3	Z	-3.01	78
15	MP4	X	-5.88	48
16	MP4	Z	-3.4	48
17	MP4	X	-5.26	48

Member Point Loads (BLC 19 : Ice Wind Load AZI 60) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in.-%]
18	MP4	Z	-3.04	48
19	MP1	X	-4.2	78
20	MP1	Z	-2.42	78
21	MP1	X	-4.2	78
22	MP1	Z	-2.42	78
23	MP5	X	-8.76	21
24	MP5	Z	-5.06	21
25	MP5	X	-8.76	69
26	MP5	Z	-5.06	69
27	MP7	X	-16.15	12
28	MP7	Z	-9.32	12
29	MP7	X	-16.15	84
30	MP7	Z	-9.32	84
31	MP8	X	-16.15	12
32	MP8	Z	-9.32	12
33	MP8	X	-16.15	84
34	MP8	Z	-9.32	84
35	MP7	X	-6.09	78
36	MP7	Z	-3.52	78
37	MP8	X	-6.48	48
38	MP8	Z	-3.74	48
39	MP8	X	-5.57	48
40	MP8	Z	-3.22	48
41	MP5	X	-4.17	78
42	MP5	Z	-2.41	78
43	MP5	X	-4.17	78
44	MP5	Z	-2.41	78
45	MP12	X	-7.35	21
46	MP12	Z	-4.25	21
47	MP12	X	-7.35	69
48	MP12	Z	-4.25	69
49	MP9	X	-11.23	12
50	MP9	Z	-6.49	12
51	MP9	X	-11.23	84
52	MP9	Z	-6.49	84
53	MP10	X	-11.23	12
54	MP10	Z	-6.49	12
55	MP10	X	-11.23	84
56	MP10	Z	-6.49	84
57	MP9	X	-5.06	78
58	MP9	Z	-2.92	78
59	MP10	X	-5.78	48
60	MP10	Z	-3.33	48
61	MP10	X	-5.21	48
62	MP10	Z	-3.01	48
63	MP12	X	-4.21	78
64	MP12	Z	-2.43	78
65	MP12	X	-4.21	78
66	MP12	Z	-2.43	78

Member Point Loads (BLC 20 : Ice Wind Load AZI 90)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in.-%]
1	MP1	X	-7.95	21
2	MP1	Z	0	21
3	MP1	X	-7.95	69
4	MP1	Z	0	69

Member Point Loads (BLC 20 : Ice Wind Load AZI 90) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in.-%]
5	MP3	X	-12.22	12
6	MP3	Z	0	12
7	MP3	X	-12.22	84
8	MP3	Z	0	84
9	MP4	X	-12.22	12
10	MP4	Z	0	12
11	MP4	X	-12.22	84
12	MP4	Z	0	84
13	MP3	X	-5.69	78
14	MP3	Z	0	78
15	MP4	X	-6.56	48
16	MP4	Z	0	48
17	MP4	X	-5.96	48
18	MP4	Z	0	48
19	MP1	X	-4.86	78
20	MP1	Z	0	78
21	MP1	X	-4.86	78
22	MP1	Z	0	78
23	MP5	X	-9.57	21
24	MP5	Z	0	21
25	MP5	X	-9.57	69
26	MP5	Z	0	69
27	MP7	X	-17.04	12
28	MP7	Z	0	12
29	MP7	X	-17.04	84
30	MP7	Z	0	84
31	MP8	X	-17.04	12
32	MP8	Z	0	12
33	MP8	X	-17.04	84
34	MP8	Z	0	84
35	MP7	X	-6.7	78
36	MP7	Z	0	78
37	MP8	X	-7.25	48
38	MP8	Z	0	48
39	MP8	X	-6.32	48
40	MP8	Z	0	48
41	MP5	X	-4.83	78
42	MP5	Z	0	78
43	MP5	X	-4.83	78
44	MP5	Z	0	78
45	MP12	X	-9.57	21
46	MP12	Z	0	21
47	MP12	X	-9.57	69
48	MP12	Z	0	69
49	MP9	X	-15.99	12
50	MP9	Z	0	12
51	MP9	X	-15.99	84
52	MP9	Z	0	84
53	MP10	X	-15.99	12
54	MP10	Z	0	12
55	MP10	X	-15.99	84
56	MP10	Z	0	84
57	MP9	X	-6.48	78
58	MP9	Z	0	78
59	MP10	X	-7.1	48
60	MP10	Z	0	48
61	MP10	X	-6.24	48

Member Point Loads (BLC 20 : Ice Wind Load AZI 90) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in.-%]
62	MP10	Z	0	48
63	MP12	X	-4.83	78
64	MP12	Z	0	78
65	MP12	X	-4.83	78
66	MP12	Z	0	78

Member Point Loads (BLC 21 : Ice Wind Load AZI 120)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in.-%]
1	MP1	X	-7.35	21
2	MP1	Z	4.25	21
3	MP1	X	-7.35	69
4	MP1	Z	4.25	69
5	MP3	X	-11.97	12
6	MP3	Z	6.91	12
7	MP3	X	-11.97	84
8	MP3	Z	6.91	84
9	MP4	X	-11.97	12
10	MP4	Z	6.91	12
11	MP4	X	-11.97	84
12	MP4	Z	6.91	84
13	MP3	X	-5.22	78
14	MP3	Z	3.01	78
15	MP4	X	-5.88	48
16	MP4	Z	3.4	48
17	MP4	X	-5.26	48
18	MP4	Z	3.04	48
19	MP1	X	-4.2	78
20	MP1	Z	2.42	78
21	MP1	X	-4.2	78
22	MP1	Z	2.42	78
23	MP5	X	-7.35	21
24	MP5	Z	4.25	21
25	MP5	X	-7.35	69
26	MP5	Z	4.25	69
27	MP7	X	-11.97	12
28	MP7	Z	6.91	12
29	MP7	X	-11.97	84
30	MP7	Z	6.91	84
31	MP8	X	-11.97	12
32	MP8	Z	6.91	12
33	MP8	X	-11.97	84
34	MP8	Z	6.91	84
35	MP7	X	-5.22	78
36	MP7	Z	3.01	78
37	MP8	X	-5.88	48
38	MP8	Z	3.4	48
39	MP8	X	-5.26	48
40	MP8	Z	3.04	48
41	MP5	X	-4.2	78
42	MP5	Z	2.42	78
43	MP5	X	-4.2	78
44	MP5	Z	2.42	78
45	MP12	X	-8.76	21
46	MP12	Z	5.06	21
47	MP12	X	-8.76	69
48	MP12	Z	5.06	69

Member Point Loads (BLC 21 : Ice Wind Load AZI 120) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in,%]
49	MP9	X	-15.98	12
50	MP9	Z	9.23	12
51	MP9	X	-15.98	84
52	MP9	Z	9.23	84
53	MP10	X	-15.98	12
54	MP10	Z	9.23	12
55	MP10	X	-15.98	84
56	MP10	Z	9.23	84
57	MP9	X	-6.06	78
58	MP9	Z	3.5	78
59	MP10	X	-6.46	48
60	MP10	Z	3.73	48
61	MP10	X	-5.56	48
62	MP10	Z	3.21	48
63	MP12	X	-4.17	78
64	MP12	Z	2.41	78
65	MP12	X	-4.17	78
66	MP12	Z	2.41	78

Member Point Loads (BLC 22 : Ice Wind Load AZI 150)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in,%]
1	MP1	X	-4.79	21
2	MP1	Z	8.29	21
3	MP1	X	-4.79	69
4	MP1	Z	8.29	69
5	MP3	X	-8.52	12
6	MP3	Z	14.76	12
7	MP3	X	-8.52	84
8	MP3	Z	14.76	84
9	MP4	X	-8.52	12
10	MP4	Z	14.76	12
11	MP4	X	-8.52	84
12	MP4	Z	14.76	84
13	MP3	X	-3.35	78
14	MP3	Z	5.8	78
15	MP4	X	-3.63	48
16	MP4	Z	6.28	48
17	MP4	X	-3.16	48
18	MP4	Z	5.47	48
19	MP1	X	-2.41	78
20	MP1	Z	4.18	78
21	MP1	X	-2.41	78
22	MP1	Z	4.18	78
23	MP5	X	-3.98	21
24	MP5	Z	6.89	21
25	MP5	X	-3.98	69
26	MP5	Z	6.89	69
27	MP7	X	-6.11	12
28	MP7	Z	10.58	12
29	MP7	X	-6.11	84
30	MP7	Z	10.58	84
31	MP8	X	-6.11	12
32	MP8	Z	10.58	12
33	MP8	X	-6.11	84
34	MP8	Z	10.58	84
35	MP7	X	-2.85	78

Member Point Loads (BLC 22 : Ice Wind Load AZI 150) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in,%]
36	MP7	Z	4.93	78
37	MP8	X	-3.28	48
38	MP8	Z	5.68	48
39	MP8	X	-2.98	48
40	MP8	Z	5.16	48
41	MP5	X	-2.43	78
42	MP5	Z	4.21	78
43	MP5	X	-2.43	78
44	MP5	Z	4.21	78
45	MP12	X	-4.79	21
46	MP12	Z	8.29	21
47	MP12	X	-4.79	69
48	MP12	Z	8.29	69
49	MP9	X	-8.95	12
50	MP9	Z	15.5	12
51	MP9	X	-8.95	84
52	MP9	Z	15.5	84
53	MP10	X	-8.95	12
54	MP10	Z	15.5	12
55	MP10	X	-8.95	84
56	MP10	Z	15.5	84
57	MP9	X	-3.44	78
58	MP9	Z	5.96	78
59	MP10	X	-3.69	48
60	MP10	Z	6.39	48
61	MP10	X	-3.19	48
62	MP10	Z	5.52	48
63	MP12	X	-2.41	78
64	MP12	Z	4.17	78
65	MP12	X	-2.41	78
66	MP12	Z	4.17	78

Member Point Loads (BLC 23 : Ice Wind Load AZI 180)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in,%]
1	MP1	X	0	21
2	MP1	Z	10.11	21
3	MP1	X	0	69
4	MP1	Z	10.11	69
5	MP3	X	0	12
6	MP3	Z	18.65	12
7	MP3	X	0	84
8	MP3	Z	18.65	84
9	MP4	X	0	12
10	MP4	Z	18.65	12
11	MP4	X	0	84
12	MP4	Z	18.65	84
13	MP3	X	0	78
14	MP3	Z	7.04	78
15	MP4	X	0	48
16	MP4	Z	7.48	48
17	MP4	X	0	48
18	MP4	Z	6.43	48
19	MP1	X	0	78
20	MP1	Z	4.81	78
21	MP1	X	0	78
22	MP1	Z	4.81	78

Member Point Loads (BLC 23 : Ice Wind Load AZI 180) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in.-%]
23	MP5	X	0	21
24	MP5	Z	8.49	21
25	MP5	X	0	69
26	MP5	Z	8.49	69
27	MP7	X	0	12
28	MP7	Z	13.83	12
29	MP7	X	0	84
30	MP7	Z	13.83	84
31	MP8	X	0	12
32	MP8	Z	13.83	12
33	MP8	X	0	84
34	MP8	Z	13.83	84
35	MP7	X	0	78
36	MP7	Z	6.03	78
37	MP8	X	0	48
38	MP8	Z	6.79	48
39	MP8	X	0	48
40	MP8	Z	6.08	48
41	MP5	X	0	78
42	MP5	Z	4.85	78
43	MP5	X	0	78
44	MP5	Z	4.85	78
45	MP12	X	0	21
46	MP12	Z	8.49	21
47	MP12	X	0	69
48	MP12	Z	8.49	69
49	MP9	X	0	12
50	MP9	Z	14.87	12
51	MP9	X	0	84
52	MP9	Z	14.87	84
53	MP10	X	0	12
54	MP10	Z	14.87	12
55	MP10	X	0	84
56	MP10	Z	14.87	84
57	MP9	X	0	78
58	MP9	Z	6.25	78
59	MP10	X	0	48
60	MP10	Z	6.94	48
61	MP10	X	0	48
62	MP10	Z	6.16	48
63	MP12	X	0	78
64	MP12	Z	4.84	78
65	MP12	X	0	78
66	MP12	Z	4.84	78

Member Point Loads (BLC 24 : Ice Wind Load AZI 210)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in.-%]
1	MP1	X	4.79	21
2	MP1	Z	8.29	21
3	MP1	X	4.79	69
4	MP1	Z	8.29	69
5	MP3	X	8.52	12
6	MP3	Z	14.76	12
7	MP3	X	8.52	84
8	MP3	Z	14.76	84
9	MP4	X	8.52	12

Member Point Loads (BLC 24 : Ice Wind Load AZI 210) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in,%]
10	MP4	Z	14.76	12
11	MP4	X	8.52	84
12	MP4	Z	14.76	84
13	MP3	X	3.35	78
14	MP3	Z	5.8	78
15	MP4	X	3.63	48
16	MP4	Z	6.28	48
17	MP4	X	3.16	48
18	MP4	Z	5.47	48
19	MP1	X	2.41	78
20	MP1	Z	4.18	78
21	MP1	X	2.41	78
22	MP1	Z	4.18	78
23	MP5	X	4.79	21
24	MP5	Z	8.29	21
25	MP5	X	4.79	69
26	MP5	Z	8.29	69
27	MP7	X	8.52	12
28	MP7	Z	14.76	12
29	MP7	X	8.52	84
30	MP7	Z	14.76	84
31	MP8	X	8.52	12
32	MP8	Z	14.76	12
33	MP8	X	8.52	84
34	MP8	Z	14.76	84
35	MP7	X	3.35	78
36	MP7	Z	5.8	78
37	MP8	X	3.63	48
38	MP8	Z	6.28	48
39	MP8	X	3.16	48
40	MP8	Z	5.47	48
41	MP5	X	2.41	78
42	MP5	Z	4.18	78
43	MP5	X	2.41	78
44	MP5	Z	4.18	78
45	MP12	X	3.98	21
46	MP12	Z	6.89	21
47	MP12	X	3.98	69
48	MP12	Z	6.89	69
49	MP9	X	6.21	12
50	MP9	Z	10.75	12
51	MP9	X	6.21	84
52	MP9	Z	10.75	84
53	MP10	X	6.21	12
54	MP10	Z	10.75	12
55	MP10	X	6.21	84
56	MP10	Z	10.75	84
57	MP9	X	2.87	78
58	MP9	Z	4.96	78
59	MP10	X	3.29	48
60	MP10	Z	5.71	48
61	MP10	X	2.99	48
62	MP10	Z	5.17	48
63	MP12	X	2.43	78
64	MP12	Z	4.21	78
65	MP12	X	2.43	78
66	MP12	Z	4.21	78

Member Point Loads (BLC 25 : Ice Wind Load AZI 240)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in.-%]
1	MP1	X	7.35	21
2	MP1	Z	4.25	21
3	MP1	X	7.35	69
4	MP1	Z	4.25	69
5	MP3	X	11.97	12
6	MP3	Z	6.91	12
7	MP3	X	11.97	84
8	MP3	Z	6.91	84
9	MP4	X	11.97	12
10	MP4	Z	6.91	12
11	MP4	X	11.97	84
12	MP4	Z	6.91	84
13	MP3	X	5.22	78
14	MP3	Z	3.01	78
15	MP4	X	5.88	48
16	MP4	Z	3.4	48
17	MP4	X	5.26	48
18	MP4	Z	3.04	48
19	MP1	X	4.2	78
20	MP1	Z	2.42	78
21	MP1	X	4.2	78
22	MP1	Z	2.42	78
23	MP5	X	8.76	21
24	MP5	Z	5.06	21
25	MP5	X	8.76	69
26	MP5	Z	5.06	69
27	MP7	X	16.15	12
28	MP7	Z	9.32	12
29	MP7	X	16.15	84
30	MP7	Z	9.32	84
31	MP8	X	16.15	12
32	MP8	Z	9.32	12
33	MP8	X	16.15	84
34	MP8	Z	9.32	84
35	MP7	X	6.09	78
36	MP7	Z	3.52	78
37	MP8	X	6.48	48
38	MP8	Z	3.74	48
39	MP8	X	5.57	48
40	MP8	Z	3.22	48
41	MP5	X	4.17	78
42	MP5	Z	2.41	78
43	MP5	X	4.17	78
44	MP5	Z	2.41	78
45	MP12	X	7.35	21
46	MP12	Z	4.25	21
47	MP12	X	7.35	69
48	MP12	Z	4.25	69
49	MP9	X	11.23	12
50	MP9	Z	6.49	12
51	MP9	X	11.23	84
52	MP9	Z	6.49	84
53	MP10	X	11.23	12
54	MP10	Z	6.49	12
55	MP10	X	11.23	84
56	MP10	Z	6.49	84
57	MP9	X	5.06	78

Member Point Loads (BLC 25 : Ice Wind Load AZI 240) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in.-%]
58	MP9	Z	2.92	78
59	MP10	X	5.78	48
60	MP10	Z	3.33	48
61	MP10	X	5.21	48
62	MP10	Z	3.01	48
63	MP12	X	4.21	78
64	MP12	Z	2.43	78
65	MP12	X	4.21	78
66	MP12	Z	2.43	78

Member Point Loads (BLC 26 : Ice Wind Load AZI 270)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in.-%]
1	MP1	X	7.95	21
2	MP1	Z	0	21
3	MP1	X	7.95	69
4	MP1	Z	0	69
5	MP3	X	12.22	12
6	MP3	Z	0	12
7	MP3	X	12.22	84
8	MP3	Z	0	84
9	MP4	X	12.22	12
10	MP4	Z	0	12
11	MP4	X	12.22	84
12	MP4	Z	0	84
13	MP3	X	5.69	78
14	MP3	Z	0	78
15	MP4	X	6.56	48
16	MP4	Z	0	48
17	MP4	X	5.96	48
18	MP4	Z	0	48
19	MP1	X	4.86	78
20	MP1	Z	0	78
21	MP1	X	4.86	78
22	MP1	Z	0	78
23	MP5	X	9.57	21
24	MP5	Z	0	21
25	MP5	X	9.57	69
26	MP5	Z	0	69
27	MP7	X	17.04	12
28	MP7	Z	0	12
29	MP7	X	17.04	84
30	MP7	Z	0	84
31	MP8	X	17.04	12
32	MP8	Z	0	12
33	MP8	X	17.04	84
34	MP8	Z	0	84
35	MP7	X	6.7	78
36	MP7	Z	0	78
37	MP8	X	7.25	48
38	MP8	Z	0	48
39	MP8	X	6.32	48
40	MP8	Z	0	48
41	MP5	X	4.83	78
42	MP5	Z	0	78
43	MP5	X	4.83	78
44	MP5	Z	0	78

Member Point Loads (BLC 26 : Ice Wind Load AZI 270) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in,%]
45	MP12	X	9.57	21
46	MP12	Z	0	21
47	MP12	X	9.57	69
48	MP12	Z	0	69
49	MP9	X	15.99	12
50	MP9	Z	0	12
51	MP9	X	15.99	84
52	MP9	Z	0	84
53	MP10	X	15.99	12
54	MP10	Z	0	12
55	MP10	X	15.99	84
56	MP10	Z	0	84
57	MP9	X	6.48	78
58	MP9	Z	0	78
59	MP10	X	7.1	48
60	MP10	Z	0	48
61	MP10	X	6.24	48
62	MP10	Z	0	48
63	MP12	X	4.83	78
64	MP12	Z	0	78
65	MP12	X	4.83	78
66	MP12	Z	0	78

Member Point Loads (BLC 27 : Ice Wind Load AZI 300)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in,%]
1	MP1	X	7.35	21
2	MP1	Z	-4.25	21
3	MP1	X	7.35	69
4	MP1	Z	-4.25	69
5	MP3	X	11.97	12
6	MP3	Z	-6.91	12
7	MP3	X	11.97	84
8	MP3	Z	-6.91	84
9	MP4	X	11.97	12
10	MP4	Z	-6.91	12
11	MP4	X	11.97	84
12	MP4	Z	-6.91	84
13	MP3	X	5.22	78
14	MP3	Z	-3.01	78
15	MP4	X	5.88	48
16	MP4	Z	-3.4	48
17	MP4	X	5.26	48
18	MP4	Z	-3.04	48
19	MP1	X	4.2	78
20	MP1	Z	-2.42	78
21	MP1	X	4.2	78
22	MP1	Z	-2.42	78
23	MP5	X	7.35	21
24	MP5	Z	-4.25	21
25	MP5	X	7.35	69
26	MP5	Z	-4.25	69
27	MP7	X	11.97	12
28	MP7	Z	-6.91	12
29	MP7	X	11.97	84
30	MP7	Z	-6.91	84
31	MP8	X	11.97	12

Member Point Loads (BLC 27 : Ice Wind Load AZI 300) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in.-%]
32	MP8	Z	-6.91	12
33	MP8	X	11.97	84
34	MP8	Z	-6.91	84
35	MP7	X	5.22	78
36	MP7	Z	-3.01	78
37	MP8	X	5.88	48
38	MP8	Z	-3.4	48
39	MP8	X	5.26	48
40	MP8	Z	-3.04	48
41	MP5	X	4.2	78
42	MP5	Z	-2.42	78
43	MP5	X	4.2	78
44	MP5	Z	-2.42	78
45	MP12	X	8.76	21
46	MP12	Z	-5.06	21
47	MP12	X	8.76	69
48	MP12	Z	-5.06	69
49	MP9	X	15.98	12
50	MP9	Z	-9.23	12
51	MP9	X	15.98	84
52	MP9	Z	-9.23	84
53	MP10	X	15.98	12
54	MP10	Z	-9.23	12
55	MP10	X	15.98	84
56	MP10	Z	-9.23	84
57	MP9	X	6.06	78
58	MP9	Z	-3.5	78
59	MP10	X	6.46	48
60	MP10	Z	-3.73	48
61	MP10	X	5.56	48
62	MP10	Z	-3.21	48
63	MP12	X	4.17	78
64	MP12	Z	-2.41	78
65	MP12	X	4.17	78
66	MP12	Z	-2.41	78

Member Point Loads (BLC 28 : Ice Wind Load AZI 330)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in.-%]
1	MP1	X	4.79	21
2	MP1	Z	-8.29	21
3	MP1	X	4.79	69
4	MP1	Z	-8.29	69
5	MP3	X	8.52	12
6	MP3	Z	-14.76	12
7	MP3	X	8.52	84
8	MP3	Z	-14.76	84
9	MP4	X	8.52	12
10	MP4	Z	-14.76	12
11	MP4	X	8.52	84
12	MP4	Z	-14.76	84
13	MP3	X	3.35	78
14	MP3	Z	-5.8	78
15	MP4	X	3.63	48
16	MP4	Z	-6.28	48
17	MP4	X	3.16	48
18	MP4	Z	-5.47	48

Member Point Loads (BLC 28 : Ice Wind Load AZI 330) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in.-%]
19	MP1	X	2.41	78
20	MP1	Z	-4.18	78
21	MP1	X	2.41	78
22	MP1	Z	-4.18	78
23	MP5	X	3.98	21
24	MP5	Z	-6.89	21
25	MP5	X	3.98	69
26	MP5	Z	-6.89	69
27	MP7	X	6.11	12
28	MP7	Z	-10.58	12
29	MP7	X	6.11	84
30	MP7	Z	-10.58	84
31	MP8	X	6.11	12
32	MP8	Z	-10.58	12
33	MP8	X	6.11	84
34	MP8	Z	-10.58	84
35	MP7	X	2.85	78
36	MP7	Z	-4.93	78
37	MP8	X	3.28	48
38	MP8	Z	-5.68	48
39	MP8	X	2.98	48
40	MP8	Z	-5.16	48
41	MP5	X	2.43	78
42	MP5	Z	-4.21	78
43	MP5	X	2.43	78
44	MP5	Z	-4.21	78
45	MP12	X	4.79	21
46	MP12	Z	-8.29	21
47	MP12	X	4.79	69
48	MP12	Z	-8.29	69
49	MP9	X	8.95	12
50	MP9	Z	-15.5	12
51	MP9	X	8.95	84
52	MP9	Z	-15.5	84
53	MP10	X	8.95	12
54	MP10	Z	-15.5	12
55	MP10	X	8.95	84
56	MP10	Z	-15.5	84
57	MP9	X	3.44	78
58	MP9	Z	-5.96	78
59	MP10	X	3.69	48
60	MP10	Z	-6.39	48
61	MP10	X	3.19	48
62	MP10	Z	-5.52	48
63	MP12	X	2.41	78
64	MP12	Z	-4.17	78
65	MP12	X	2.41	78
66	MP12	Z	-4.17	78

Member Point Loads (BLC 31 : Seismic Load Z)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in.-%]
1	MP1	Z	-1.801	21
2	MP1	Z	-1.801	69
3	MP3	Z	-4.086	12
4	MP3	Z	-4.086	84
5	MP4	Z	-4.086	12

Member Point Loads (BLC 31 : Seismic Load Z) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in,%]
6	MP4	Z	-4.086	84
7	MP3	Z	-6.166	78
8	MP4	Z	-7.308	48
9	MP4	Z	-7.411	48
10	MP1	Z	-1.801	78
11	MP1	Z	-1.801	78
12	MP5	Z	-1.801	21
13	MP5	Z	-1.801	69
14	MP7	Z	-4.086	12
15	MP7	Z	-4.086	84
16	MP8	Z	-4.086	12
17	MP8	Z	-4.086	84
18	MP7	Z	-6.166	78
19	MP8	Z	-7.308	48
20	MP8	Z	-7.411	48
21	MP5	Z	-1.801	78
22	MP5	Z	-1.801	78
23	MP12	Z	-1.801	21
24	MP12	Z	-1.801	69
25	MP9	Z	-4.086	12
26	MP9	Z	-4.086	84
27	MP10	Z	-4.086	12
28	MP10	Z	-4.086	84
29	MP9	Z	-6.166	78
30	MP10	Z	-7.308	48
31	MP10	Z	-7.411	48
32	MP12	Z	-1.801	78
33	MP12	Z	-1.801	78

Member Point Loads (BLC 32 : Seismic Load X)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in,%]
1	MP1	X	-1.801	21
2	MP1	X	-1.801	69
3	MP3	X	-4.086	12
4	MP3	X	-4.086	84
5	MP4	X	-4.086	12
6	MP4	X	-4.086	84
7	MP3	X	-6.166	78
8	MP4	X	-7.308	48
9	MP4	X	-7.411	48
10	MP1	X	-1.801	78
11	MP1	X	-1.801	78
12	MP5	X	-1.801	21
13	MP5	X	-1.801	69
14	MP7	X	-4.086	12
15	MP7	X	-4.086	84
16	MP8	X	-4.086	12
17	MP8	X	-4.086	84
18	MP7	X	-6.166	78
19	MP8	X	-7.308	48
20	MP8	X	-7.411	48
21	MP5	X	-1.801	78
22	MP5	X	-1.801	78
23	MP12	X	-1.801	21
24	MP12	X	-1.801	69
25	MP9	X	-4.086	12

Member Point Loads (BLC 32 : Seismic Load X) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in.-%]
26	MP9	X	-4.086	84
27	MP10	X	-4.086	12
28	MP10	X	-4.086	84
29	MP9	X	-6.166	78
30	MP10	X	-7.308	48
31	MP10	X	-7.411	48
32	MP12	X	-1.801	78
33	MP12	X	-1.801	78

Member Distributed Loads (BLC 14 : Distr. Wind Load Z)

	Member Label	Direction	Start Magnitude[lb.ft.F,psf]	End Magnitude[lb.ft.F,psf]	Start Location[in.-%]	End Location[in.-%]
1	M1	SZ	-87.162	-87.162	0	%100
2	M2	SZ	-87.162	-87.162	0	%100
3	M3	SZ	-87.162	-87.162	0	%100
4	M4	SZ	-52.297	-52.297	0	%100
5	M5	SZ	-52.297	-52.297	0	%100
6	M6	SZ	-52.297	-52.297	0	%100
7	M7	SZ	0	0	0	%100
8	M8	SZ	0	0	0	%100
9	M9	SZ	0	0	0	%100
10	M10	SZ	0	0	0	%100
11	M11	SZ	0	0	0	%100
12	M12	SZ	0	0	0	%100
13	M13	SZ	0	0	0	%100
14	M14	SZ	-87.162	-87.162	0	%100
15	M15	SZ	-87.162	-87.162	0	%100
16	M16	SZ	-52.297	-52.297	0	%100
17	M17	SZ	-52.297	-52.297	0	%100
18	M18	SZ	0	0	0	%100
19	M19	SZ	0	0	0	%100
20	M20	SZ	-87.162	-87.162	0	%100
21	M21	SZ	0	0	0	%100
22	M22	SZ	0	0	0	%100
23	M23	SZ	-87.162	-87.162	0	%100
24	M24	SZ	-87.162	-87.162	0	%100
25	M25	SZ	0	0	0	%100
26	M26	SZ	0	0	0	%100
27	M27	SZ	-87.162	-87.162	0	%100
28	M28	SZ	-87.162	-87.162	0	%100
29	M29	SZ	0	0	0	%100
30	M30	SZ	-52.297	-52.297	0	%100
31	M31	SZ	-87.162	-87.162	0	%100
32	M32	SZ	-87.162	-87.162	0	%100
33	M33	SZ	-87.162	-87.162	0	%100
34	M34	SZ	-87.162	-87.162	0	%100
35	M35	SZ	-87.162	-87.162	0	%100
36	M36	SZ	-87.162	-87.162	0	%100
37	M37	SZ	-87.162	-87.162	0	%100
38	M38	SZ	-87.162	-87.162	0	%100
39	M39	SZ	-87.162	-87.162	0	%100
40	M40	SZ	0	0	0	%100
41	M41	SZ	0	0	0	%100
42	M42	SZ	0	0	0	%100
43	M43	SZ	-87.162	-87.162	0	%100
44	M44	SZ	0	0	0	%100

Member Distributed Loads (BLC 14 : Distr. Wind Load Z) (Continued)

	Member Label	Direction	Start Magnitude[...]	End Magnitude[lb/ft.F.psf]	Start Location[in...]	End Location[in...]
45	M45	SZ	-87.162	-87.162	0	%100
46	M46	SZ	-87.162	-87.162	0	%100
47	M47	SZ	-87.162	-87.162	0	%100
48	M48	SZ	0	0	0	%100
49	M49	SZ	-87.162	-87.162	0	%100
50	M50	SZ	0	0	0	%100
51	M51	SZ	-87.162	-87.162	0	%100
52	M52	SZ	-87.162	-87.162	0	%100
53	M53	SZ	0	0	0	%100
54	M54	SZ	-87.162	-87.162	0	%100
55	M55	SZ	-87.162	-87.162	0	%100
56	M56	SZ	-87.162	-87.162	0	%100
57	M57	SZ	0	0	0	%100
58	M58	SZ	-87.162	-87.162	0	%100
59	M59	SZ	-87.162	-87.162	0	%100
60	M60	SZ	-87.162	-87.162	0	%100
61	M61	SZ	-87.162	-87.162	0	%100
62	M62	SZ	-87.162	-87.162	0	%100
63	M63	SZ	-87.162	-87.162	0	%100
64	M64	SZ	0	0	0	%100
65	M65	SZ	0	0	0	%100
66	M66	SZ	0	0	0	%100
67	M67	SZ	-87.162	-87.162	0	%100
68	M68	SZ	0	0	0	%100
69	M69	SZ	-87.162	-87.162	0	%100
70	M70	SZ	-87.162	-87.162	0	%100
71	M71	SZ	0	0	0	%100
72	M72	SZ	0	0	0	%100
73	M73	SZ	-87.162	-87.162	0	%100
74	M74	SZ	0	0	0	%100
75	M75	SZ	-87.162	-87.162	0	%100
76	M76	SZ	-87.162	-87.162	0	%100
77	M77	SZ	-87.162	-87.162	0	%100
78	M78	SZ	0	0	0	%100
79	M79	SZ	-87.162	-87.162	0	%100
80	M80	SZ	-87.162	-87.162	0	%100
81	M81	SZ	-87.162	-87.162	0	%100
82	M82	SZ	-87.162	-87.162	0	%100
83	M83	SZ	0	0	0	%100
84	M84	SZ	0	0	0	%100
85	M85	SZ	0	0	0	%100
86	M86	SZ	0	0	0	%100
87	M87	SZ	0	0	0	%100
88	M88	SZ	0	0	0	%100
89	M89	SZ	-87.162	-87.162	0	%100
90	M90	SZ	-87.162	-87.162	0	%100
91	M91	SZ	0	0	0	%100
92	M92	SZ	0	0	0	%100
93	M93	SZ	0	0	0	%100
94	M94	SZ	0	0	0	%100
95	M95	SZ	0	0	0	%100
96	M96	SZ	0	0	0	%100
97	MP1	SZ	-52.297	-52.297	0	%100
98	MP2	SZ	-52.297	-52.297	0	%100
99	MP3	SZ	-52.297	-52.297	0	%100
100	MP4	SZ	-52.297	-52.297	0	%100
101	MP5	SZ	-52.297	-52.297	0	%100

Member Distributed Loads (BLC 14 : Distr. Wind Load Z) (Continued)

	Member Label	Direction	Start Magnitude[...]	End Magnitude[lb/ft.F.psf]	Start Location[in...]	End Location[in....]
102	MP6	SZ	-52.297	-52.297	0	%100
103	MP7	SZ	-52.297	-52.297	0	%100
104	MP8	SZ	-52.297	-52.297	0	%100
105	MP9	SZ	-52.297	-52.297	0	%100
106	MP10	SZ	-52.297	-52.297	0	%100
107	MP11	SZ	-52.297	-52.297	0	%100
108	MP12	SZ	-52.297	-52.297	0	%100

Member Distributed Loads (BLC 15 : Distr. Wind Load X)

	Member Label	Direction	Start Magnitude[...]	End Magnitude[lb/ft.F.psf]	Start Location[in...]	End Location[in....]
1	M1	SX	-87.162	-87.162	0	%100
2	M2	SX	-87.162	-87.162	0	%100
3	M3	SX	-87.162	-87.162	0	%100
4	M4	SX	-52.297	-52.297	0	%100
5	M5	SX	-52.297	-52.297	0	%100
6	M6	SX	-52.297	-52.297	0	%100
7	M7	SX	0	0	0	%100
8	M8	SX	0	0	0	%100
9	M9	SX	0	0	0	%100
10	M10	SX	0	0	0	%100
11	M11	SX	0	0	0	%100
12	M12	SX	0	0	0	%100
13	M13	SX	0	0	0	%100
14	M14	SX	-87.162	-87.162	0	%100
15	M15	SX	-87.162	-87.162	0	%100
16	M16	SX	-52.297	-52.297	0	%100
17	M17	SX	-52.297	-52.297	0	%100
18	M18	SX	0	0	0	%100
19	M19	SX	0	0	0	%100
20	M20	SX	-87.162	-87.162	0	%100
21	M21	SX	0	0	0	%100
22	M22	SX	0	0	0	%100
23	M23	SX	-87.162	-87.162	0	%100
24	M24	SX	-87.162	-87.162	0	%100
25	M25	SX	0	0	0	%100
26	M26	SX	0	0	0	%100
27	M27	SX	-87.162	-87.162	0	%100
28	M28	SX	-87.162	-87.162	0	%100
29	M29	SX	0	0	0	%100
30	M30	SX	-52.297	-52.297	0	%100
31	M31	SX	-87.162	-87.162	0	%100
32	M32	SX	-87.162	-87.162	0	%100
33	M33	SX	-87.162	-87.162	0	%100
34	M34	SX	-87.162	-87.162	0	%100
35	M35	SX	-87.162	-87.162	0	%100
36	M36	SX	-87.162	-87.162	0	%100
37	M37	SX	-87.162	-87.162	0	%100
38	M38	SX	-87.162	-87.162	0	%100
39	M39	SX	-87.162	-87.162	0	%100
40	M40	SX	0	0	0	%100
41	M41	SX	0	0	0	%100
42	M42	SX	0	0	0	%100
43	M43	SX	-87.162	-87.162	0	%100
44	M44	SX	0	0	0	%100
45	M45	SX	-87.162	-87.162	0	%100
46	M46	SX	-87.162	-87.162	0	%100

Member Distributed Loads (BLC 15 : Distr. Wind Load X) (Continued)

	Member Label	Direction	Start Magnitude[...]	End Magnitude[lb/ft.F.psf]	Start Location[in...]	End Location[in....]
47	M47	SX	-87.162	-87.162	0	%100
48	M48	SX	0	0	0	%100
49	M49	SX	-87.162	-87.162	0	%100
50	M50	SX	0	0	0	%100
51	M51	SX	-87.162	-87.162	0	%100
52	M52	SX	-87.162	-87.162	0	%100
53	M53	SX	0	0	0	%100
54	M54	SX	-87.162	-87.162	0	%100
55	M55	SX	-87.162	-87.162	0	%100
56	M56	SX	-87.162	-87.162	0	%100
57	M57	SX	0	0	0	%100
58	M58	SX	-87.162	-87.162	0	%100
59	M59	SX	-87.162	-87.162	0	%100
60	M60	SX	-87.162	-87.162	0	%100
61	M61	SX	-87.162	-87.162	0	%100
62	M62	SX	-87.162	-87.162	0	%100
63	M63	SX	-87.162	-87.162	0	%100
64	M64	SX	0	0	0	%100
65	M65	SX	0	0	0	%100
66	M66	SX	0	0	0	%100
67	M67	SX	-87.162	-87.162	0	%100
68	M68	SX	0	0	0	%100
69	M69	SX	-87.162	-87.162	0	%100
70	M70	SX	-87.162	-87.162	0	%100
71	M71	SX	0	0	0	%100
72	M72	SX	0	0	0	%100
73	M73	SX	-87.162	-87.162	0	%100
74	M74	SX	0	0	0	%100
75	M75	SX	-87.162	-87.162	0	%100
76	M76	SX	-87.162	-87.162	0	%100
77	M77	SX	-87.162	-87.162	0	%100
78	M78	SX	0	0	0	%100
79	M79	SX	-87.162	-87.162	0	%100
80	M80	SX	-87.162	-87.162	0	%100
81	M81	SX	-87.162	-87.162	0	%100
82	M82	SX	-87.162	-87.162	0	%100
83	M83	SX	0	0	0	%100
84	M84	SX	0	0	0	%100
85	M85	SX	0	0	0	%100
86	M86	SX	0	0	0	%100
87	M87	SX	0	0	0	%100
88	M88	SX	0	0	0	%100
89	M89	SX	-87.162	-87.162	0	%100
90	M90	SX	-87.162	-87.162	0	%100
91	M91	SX	0	0	0	%100
92	M92	SX	0	0	0	%100
93	M93	SX	0	0	0	%100
94	M94	SX	0	0	0	%100
95	M95	SX	0	0	0	%100
96	M96	SX	0	0	0	%100
97	MP1	SX	-52.297	-52.297	0	%100
98	MP2	SX	-52.297	-52.297	0	%100
99	MP3	SX	-52.297	-52.297	0	%100
100	MP4	SX	-52.297	-52.297	0	%100
101	MP5	SX	-52.297	-52.297	0	%100
102	MP6	SX	-52.297	-52.297	0	%100
103	MP7	SX	-52.297	-52.297	0	%100

Member Distributed Loads (BLC 15 : Distr. Wind Load X) (Continued)

	Member Label	Direction	Start Magnitude[...]	End Magnitude[lb/ft.F.psf]	Start Location[in...]	End Location[in...]
104	MP8	SX	-52.297	-52.297	0	%100
105	MP9	SX	-52.297	-52.297	0	%100
106	MP10	SX	-52.297	-52.297	0	%100
107	MP11	SX	-52.297	-52.297	0	%100
108	MP12	SX	-52.297	-52.297	0	%100

Member Distributed Loads (BLC 16 : Ice Weight)

	Member Label	Direction	Start Magnitude[...]	End Magnitude[lb/ft.F.psf]	Start Location[in...]	End Location[in...]
1	M1	Y	-15.607	-15.607	0	%100
2	M2	Y	-15.607	-15.607	0	%100
3	M3	Y	-15.607	-15.607	0	%100
4	M4	Y	-11.05	-11.05	0	%100
5	M5	Y	-11.05	-11.05	0	%100
6	M6	Y	-11.05	-11.05	0	%100
7	M7	Y	-3.654	-3.654	0	%100
8	M8	Y	-3.654	-3.654	0	%100
9	M9	Y	-3.654	-3.654	0	%100
10	M10	Y	-3.654	-3.654	0	%100
11	M11	Y	-3.654	-3.654	0	%100
12	M12	Y	-3.654	-3.654	0	%100
13	M13	Y	-3.654	-3.654	0	%100
14	M14	Y	-16.376	-16.376	0	%100
15	M15	Y	-16.357	-16.357	0	%100
16	M16	Y	-8.672	-8.672	0	%100
17	M17	Y	-8.672	-8.672	0	%100
18	M18	Y	-3.654	-3.654	0	%100
19	M19	Y	-3.654	-3.654	0	%100
20	M20	Y	-16.357	-16.357	0	%100
21	M21	Y	-3.654	-3.654	0	%100
22	M22	Y	-3.654	-3.654	0	%100
23	M23	Y	-16.357	-16.357	0	%100
24	M24	Y	-16.357	-16.357	0	%100
25	M25	Y	-3.654	-3.654	0	%100
26	M26	Y	-3.654	-3.654	0	%100
27	M27	Y	-16.357	-16.357	0	%100
28	M28	Y	-16.357	-16.357	0	%100
29	M29	Y	-3.654	-3.654	0	%100
30	M30	Y	-8.672	-8.672	0	%100
31	M31	Y	-16.357	-16.357	0	%100
32	M32	Y	-11.125	-11.125	0	%100
33	M33	Y	-16.357	-16.357	0	%100
34	M34	Y	-11.125	-11.125	0	%100
35	M35	Y	-11.125	-11.125	0	%100
36	M36	Y	-16.357	-16.357	0	%100
37	M37	Y	-16.376	-16.376	0	%100
38	M38	Y	-16.376	-16.376	0	%100
39	M39	Y	-15.607	-15.607	0	%100
40	M40	Y	-3.654	-3.654	0	%100
41	M41	Y	-3.654	-3.654	0	%100
42	M42	Y	-3.654	-3.654	0	%100
43	M43	Y	-15.607	-15.607	0	%100
44	M44	Y	-3.654	-3.654	0	%100
45	M45	Y	-16.376	-16.376	0	%100
46	M46	Y	-16.376	-16.376	0	%100
47	M47	Y	-15.607	-15.607	0	%100
48	M48	Y	-3.654	-3.654	0	%100

Member Distributed Loads (BLC 16 : Ice Weight) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft.F,psf]	End Magnitude[lb/ft.F,psf]	Start Location[in...]	End Location[in...]
49	M49	Y	-16.376	-16.376	0	%100
50	M50	Y	-3.654	-3.654	0	%100
51	M51	Y	-16.357	-16.357	0	%100
52	M52	Y	-15.607	-15.607	0	%100
53	M53	Y	-3.654	-3.654	0	%100
54	M54	Y	-16.376	-16.376	0	%100
55	M55	Y	-11.125	-11.125	0	%100
56	M56	Y	-15.607	-15.607	0	%100
57	M57	Y	-3.654	-3.654	0	%100
58	M58	Y	-16.376	-16.376	0	%100
59	M59	Y	-16.357	-16.357	0	%100
60	M60	Y	-15.607	-15.607	0	%100
61	M61	Y	-11.125	-11.125	0	%100
62	M62	Y	-16.376	-16.376	0	%100
63	M63	Y	-9.631	-9.631	0	%100
64	M64	Y	-3.654	-3.654	0	%100
65	M65	Y	-3.654	-3.654	0	%100
66	M66	Y	-3.654	-3.654	0	%100
67	M67	Y	-9.631	-9.631	0	%100
68	M68	Y	-3.654	-3.654	0	%100
69	M69	Y	-16.376	-16.376	0	%100
70	M70	Y	-9.631	-9.631	0	%100
71	M71	Y	-3.654	-3.654	0	%100
72	M72	Y	-3.654	-3.654	0	%100
73	M73	Y	-9.631	-9.631	0	%100
74	M74	Y	-3.654	-3.654	0	%100
75	M75	Y	-16.376	-16.376	0	%100
76	M76	Y	-9.631	-9.631	0	%100
77	M77	Y	-11.125	-11.125	0	%100
78	M78	Y	-3.654	-3.654	0	%100
79	M79	Y	-16.376	-16.376	0	%100
80	M80	Y	-16.357	-16.357	0	%100
81	M81	Y	-9.631	-9.631	0	%100
82	M82	Y	-11.125	-11.125	0	%100
83	M83	Y	-3.654	-3.654	0	%100
84	M84	Y	-3.654	-3.654	0	%100
85	M85	Y	-3.654	-3.654	0	%100
86	M86	Y	-3.654	-3.654	0	%100
87	M87	Y	-3.654	-3.654	0	%100
88	M88	Y	-3.654	-3.654	0	%100
89	M89	Y	-11.125	-11.125	0	%100
90	M90	Y	-11.125	-11.125	0	%100
91	M91	Y	-3.654	-3.654	0	%100
92	M92	Y	-3.654	-3.654	0	%100
93	M93	Y	-3.654	-3.654	0	%100
94	M94	Y	-3.654	-3.654	0	%100
95	M95	Y	-3.654	-3.654	0	%100
96	M96	Y	-3.654	-3.654	0	%100
97	MP1	Y	-8.672	-8.672	0	%100
98	MP2	Y	-8.672	-8.672	0	%100
99	MP3	Y	-8.672	-8.672	0	%100
100	MP4	Y	-8.672	-8.672	0	%100
101	MP5	Y	-8.672	-8.672	0	%100
102	MP6	Y	-8.672	-8.672	0	%100
103	MP7	Y	-8.672	-8.672	0	%100
104	MP8	Y	-8.672	-8.672	0	%100
105	MP9	Y	-8.672	-8.672	0	%100

Member Distributed Loads (BLC 16 : Ice Weight) (Continued)

	Member Label	Direction	Start Magnitude[l...	End Magnitude[lb/ft.F,psf]	Start Location[in...	End Location[in....
106	MP10	Y	-8.672	-8.672	0	%100
107	MP11	Y	-8.672	-8.672	0	%100
108	MP12	Y	-8.672	-8.672	0	%100

Member Distributed Loads (BLC 29 : Distr. Ice Wind Load Z)

	Member Label	Direction	Start Magnitude[l...	End Magnitude[lb/ft.F,psf]	Start Location[in...	End Location[in....
1	M1	SZ	-12.467	-12.467	0	%100
2	M2	SZ	-12.467	-12.467	0	%100
3	M3	SZ	-12.467	-12.467	0	%100
4	M4	SZ	-15.382	-15.382	0	%100
5	M5	SZ	-15.382	-15.382	0	%100
6	M6	SZ	-15.382	-15.382	0	%100
7	M7	SZ	0	0	0	%100
8	M8	SZ	0	0	0	%100
9	M9	SZ	0	0	0	%100
10	M10	SZ	0	0	0	%100
11	M11	SZ	0	0	0	%100
12	M12	SZ	0	0	0	%100
13	M13	SZ	0	0	0	%100
14	M14	SZ	-12.181	-12.181	0	%100
15	M15	SZ	-12.187	-12.187	0	%100
16	M16	SZ	-19.003	-19.003	0	%100
17	M17	SZ	-19.003	-19.003	0	%100
18	M18	SZ	0	0	0	%100
19	M19	SZ	0	0	0	%100
20	M20	SZ	-12.187	-12.187	0	%100
21	M21	SZ	0	0	0	%100
22	M22	SZ	0	0	0	%100
23	M23	SZ	-12.187	-12.187	0	%100
24	M24	SZ	-12.187	-12.187	0	%100
25	M25	SZ	0	0	0	%100
26	M26	SZ	0	0	0	%100
27	M27	SZ	-12.187	-12.187	0	%100
28	M28	SZ	-12.187	-12.187	0	%100
29	M29	SZ	0	0	0	%100
30	M30	SZ	-19.003	-19.003	0	%100
31	M31	SZ	-12.187	-12.187	0	%100
32	M32	SZ	-15.305	-15.305	0	%100
33	M33	SZ	-12.187	-12.187	0	%100
34	M34	SZ	-15.305	-15.305	0	%100
35	M35	SZ	-15.305	-15.305	0	%100
36	M36	SZ	-12.187	-12.187	0	%100
37	M37	SZ	-12.181	-12.181	0	%100
38	M38	SZ	-12.181	-12.181	0	%100
39	M39	SZ	-12.467	-12.467	0	%100
40	M40	SZ	0	0	0	%100
41	M41	SZ	0	0	0	%100
42	M42	SZ	0	0	0	%100
43	M43	SZ	-12.467	-12.467	0	%100
44	M44	SZ	0	0	0	%100
45	M45	SZ	-12.181	-12.181	0	%100
46	M46	SZ	-12.181	-12.181	0	%100
47	M47	SZ	-12.467	-12.467	0	%100
48	M48	SZ	0	0	0	%100
49	M49	SZ	-12.181	-12.181	0	%100
50	M50	SZ	0	0	0	%100

Member Distributed Loads (BLC 29 : Distr. Ice Wind Load Z) (Continued)

	Member Label	Direction	Start Magnitude[...]	End Magnitude[lb/ft.F.psf]	Start Location[in...]	End Location[in....]
51	M51	SZ	-12.187	-12.187	0	%100
52	M52	SZ	-12.467	-12.467	0	%100
53	M53	SZ	0	0	0	%100
54	M54	SZ	-12.181	-12.181	0	%100
55	M55	SZ	-15.305	-15.305	0	%100
56	M56	SZ	-12.467	-12.467	0	%100
57	M57	SZ	0	0	0	%100
58	M58	SZ	-12.181	-12.181	0	%100
59	M59	SZ	-12.187	-12.187	0	%100
60	M60	SZ	-12.467	-12.467	0	%100
61	M61	SZ	-15.305	-15.305	0	%100
62	M62	SZ	-12.181	-12.181	0	%100
63	M63	SZ	-17.197	-17.197	0	%100
64	M64	SZ	0	0	0	%100
65	M65	SZ	0	0	0	%100
66	M66	SZ	0	0	0	%100
67	M67	SZ	-17.197	-17.197	0	%100
68	M68	SZ	0	0	0	%100
69	M69	SZ	-12.181	-12.181	0	%100
70	M70	SZ	-17.197	-17.197	0	%100
71	M71	SZ	0	0	0	%100
72	M72	SZ	0	0	0	%100
73	M73	SZ	-17.197	-17.197	0	%100
74	M74	SZ	0	0	0	%100
75	M75	SZ	-12.181	-12.181	0	%100
76	M76	SZ	-17.197	-17.197	0	%100
77	M77	SZ	-15.305	-15.305	0	%100
78	M78	SZ	0	0	0	%100
79	M79	SZ	-12.181	-12.181	0	%100
80	M80	SZ	-12.187	-12.187	0	%100
81	M81	SZ	-17.197	-17.197	0	%100
82	M82	SZ	-15.305	-15.305	0	%100
83	M83	SZ	0	0	0	%100
84	M84	SZ	0	0	0	%100
85	M85	SZ	0	0	0	%100
86	M86	SZ	0	0	0	%100
87	M87	SZ	0	0	0	%100
88	M88	SZ	0	0	0	%100
89	M89	SZ	-15.305	-15.305	0	%100
90	M90	SZ	-15.305	-15.305	0	%100
91	M91	SZ	0	0	0	%100
92	M92	SZ	0	0	0	%100
93	M93	SZ	0	0	0	%100
94	M94	SZ	0	0	0	%100
95	M95	SZ	0	0	0	%100
96	M96	SZ	0	0	0	%100
97	MP1	SZ	-19.003	-19.003	0	%100
98	MP2	SZ	-19.003	-19.003	0	%100
99	MP3	SZ	-19.003	-19.003	0	%100
100	MP4	SZ	-19.003	-19.003	0	%100
101	MP5	SZ	-19.003	-19.003	0	%100
102	MP6	SZ	-19.003	-19.003	0	%100
103	MP7	SZ	-19.003	-19.003	0	%100
104	MP8	SZ	-19.003	-19.003	0	%100
105	MP9	SZ	-19.003	-19.003	0	%100
106	MP10	SZ	-19.003	-19.003	0	%100
107	MP11	SZ	-19.003	-19.003	0	%100

Member Distributed Loads (BLC 29 : Distr. Ice Wind Load Z) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft.F.psf]	End Magnitude[lb/ft.F.psf]	Start Location[in]	End Location[in]
108	MP12	SZ	-19.003	-19.003	0	%100

Member Distributed Loads (BLC 30 : Distr. Ice Wind Load X)

	Member Label	Direction	Start Magnitude[lb/ft.F.psf]	End Magnitude[lb/ft.F.psf]	Start Location[in]	End Location[in]
1	M1	SX	-12.467	-12.467	0	%100
2	M2	SX	-12.467	-12.467	0	%100
3	M3	SX	-12.467	-12.467	0	%100
4	M4	SX	-15.382	-15.382	0	%100
5	M5	SX	-15.382	-15.382	0	%100
6	M6	SX	-15.382	-15.382	0	%100
7	M7	SX	0	0	0	%100
8	M8	SX	0	0	0	%100
9	M9	SX	0	0	0	%100
10	M10	SX	0	0	0	%100
11	M11	SX	0	0	0	%100
12	M12	SX	0	0	0	%100
13	M13	SX	0	0	0	%100
14	M14	SX	-12.181	-12.181	0	%100
15	M15	SX	-12.187	-12.187	0	%100
16	M16	SX	-19.003	-19.003	0	%100
17	M17	SX	-19.003	-19.003	0	%100
18	M18	SX	0	0	0	%100
19	M19	SX	0	0	0	%100
20	M20	SX	-12.187	-12.187	0	%100
21	M21	SX	0	0	0	%100
22	M22	SX	0	0	0	%100
23	M23	SX	-12.187	-12.187	0	%100
24	M24	SX	-12.187	-12.187	0	%100
25	M25	SX	0	0	0	%100
26	M26	SX	0	0	0	%100
27	M27	SX	-12.187	-12.187	0	%100
28	M28	SX	-12.187	-12.187	0	%100
29	M29	SX	0	0	0	%100
30	M30	SX	-19.003	-19.003	0	%100
31	M31	SX	-12.187	-12.187	0	%100
32	M32	SX	-15.305	-15.305	0	%100
33	M33	SX	-12.187	-12.187	0	%100
34	M34	SX	-15.305	-15.305	0	%100
35	M35	SX	-15.305	-15.305	0	%100
36	M36	SX	-12.187	-12.187	0	%100
37	M37	SX	-12.181	-12.181	0	%100
38	M38	SX	-12.181	-12.181	0	%100
39	M39	SX	-12.467	-12.467	0	%100
40	M40	SX	0	0	0	%100
41	M41	SX	0	0	0	%100
42	M42	SX	0	0	0	%100
43	M43	SX	-12.467	-12.467	0	%100
44	M44	SX	0	0	0	%100
45	M45	SX	-12.181	-12.181	0	%100
46	M46	SX	-12.181	-12.181	0	%100
47	M47	SX	-12.467	-12.467	0	%100
48	M48	SX	0	0	0	%100
49	M49	SX	-12.181	-12.181	0	%100
50	M50	SX	0	0	0	%100
51	M51	SX	-12.187	-12.187	0	%100
52	M52	SX	-12.467	-12.467	0	%100

Member Distributed Loads (BLC 30 : Distr. Ice Wind Load X) (Continued)

Member Label	Direction	Start Magnitude[...]	End Magnitude[lb/ft.F.psf]	Start Location[in...]	End Location[in....]
53	M53	SX	0	0	%100
54	M54	SX	-12.181	-12.181	%100
55	M55	SX	-15.305	-15.305	%100
56	M56	SX	-12.467	-12.467	%100
57	M57	SX	0	0	%100
58	M58	SX	-12.181	-12.181	%100
59	M59	SX	-12.187	-12.187	%100
60	M60	SX	-12.467	-12.467	%100
61	M61	SX	-15.305	-15.305	%100
62	M62	SX	-12.181	-12.181	%100
63	M63	SX	-17.197	-17.197	%100
64	M64	SX	0	0	%100
65	M65	SX	0	0	%100
66	M66	SX	0	0	%100
67	M67	SX	-17.197	-17.197	%100
68	M68	SX	0	0	%100
69	M69	SX	-12.181	-12.181	%100
70	M70	SX	-17.197	-17.197	%100
71	M71	SX	0	0	%100
72	M72	SX	0	0	%100
73	M73	SX	-17.197	-17.197	%100
74	M74	SX	0	0	%100
75	M75	SX	-12.181	-12.181	%100
76	M76	SX	-17.197	-17.197	%100
77	M77	SX	-15.305	-15.305	%100
78	M78	SX	0	0	%100
79	M79	SX	-12.181	-12.181	%100
80	M80	SX	-12.187	-12.187	%100
81	M81	SX	-17.197	-17.197	%100
82	M82	SX	-15.305	-15.305	%100
83	M83	SX	0	0	%100
84	M84	SX	0	0	%100
85	M85	SX	0	0	%100
86	M86	SX	0	0	%100
87	M87	SX	0	0	%100
88	M88	SX	0	0	%100
89	M89	SX	-15.305	-15.305	%100
90	M90	SX	-15.305	-15.305	%100
91	M91	SX	0	0	%100
92	M92	SX	0	0	%100
93	M93	SX	0	0	%100
94	M94	SX	0	0	%100
95	M95	SX	0	0	%100
96	M96	SX	0	0	%100
97	MP1	SX	-19.003	-19.003	%100
98	MP2	SX	-19.003	-19.003	%100
99	MP3	SX	-19.003	-19.003	%100
100	MP4	SX	-19.003	-19.003	%100
101	MP5	SX	-19.003	-19.003	%100
102	MP6	SX	-19.003	-19.003	%100
103	MP7	SX	-19.003	-19.003	%100
104	MP8	SX	-19.003	-19.003	%100
105	MP9	SX	-19.003	-19.003	%100
106	MP10	SX	-19.003	-19.003	%100
107	MP11	SX	-19.003	-19.003	%100
108	MP12	SX	-19.003	-19.003	%100

Member Distributed Loads (BLC 46 : BLC 1 Transient Area Loads)

	Member Label	Direction	Start Magnitude[...]	End Magnitude[lb/ft.F.psf]	Start Location[in...]	End Location[in....]
1	M3	Y	-621	-10.622	12.451	22.412
2	M3	Y	-10.622	-13.661	22.412	32.373
3	M3	Y	-13.661	-9.521	32.373	42.333
4	M3	Y	-9.521	-4.747	42.333	52.294
5	M3	Y	-4.747	-.621	52.294	62.255
6	M4	Y	-.678	-.678	8.861	29.812
7	M6	Y	-.307	-.307	105	150
8	M24	Y	-1.006	-1.006	0	2.704
9	M27	Y	-.663	-.663	0	2.75
10	M28	Y	-1.006	-1.006	0	2.704
11	M31	Y	-.663	-.663	0	2.75
12	M56	Y	-.082	-1.697	0	5.66
13	M56	Y	-1.697	-3.737	5.66	11.32
14	M56	Y	-3.737	-4.655	11.32	16.98
15	M56	Y	-4.655	-4.323	16.98	22.64
16	M56	Y	-4.323	-.42	22.64	28.3
17	M60	Y	-4.196	-4.338	2	7.66
18	M60	Y	-4.338	-4.67	7.66	13.32
19	M60	Y	-4.67	-3.74	13.32	18.981
20	M60	Y	-3.74	-1.697	18.981	24.641
21	M60	Y	-1.697	-.083	24.641	30.301
22	M62	Y	-2.258	-2.258	0	2.704
23	M75	Y	-2.96	-2.96	0	4.338
24	M76	Y	-1.29	-5.049	0	10.271
25	M76	Y	-5.049	-8.222	10.271	20.541
26	M76	Y	-8.222	-10.58	20.541	30.812
27	M76	Y	-10.58	-8.449	30.812	41.083
28	M76	Y	-8.449	-2.055	41.083	51.353
29	M79	Y	-2.907	-2.907	2	6.338
30	M81	Y	-3.253	-5.32	0	10.271
31	M81	Y	-5.32	-7.931	10.271	20.541
32	M81	Y	-7.931	-10.716	20.541	30.812
33	M81	Y	-10.716	-8.392	30.812	41.082
34	M81	Y	-8.392	-1.329	41.082	51.353
35	M1	Y	-.621	-10.609	12.451	22.412
36	M1	Y	-10.609	-13.652	22.412	32.373
37	M1	Y	-13.652	-9.528	32.373	42.333
38	M1	Y	-9.528	-4.759	42.333	52.294
39	M1	Y	-4.759	-.621	52.294	62.255
40	M4	Y	-1.266	-.4	120.233	123.221
41	M4	Y	-.4	.033	123.221	126.208
42	M4	Y	.033	.033	126.208	129.196
43	M4	Y	.033	.033	129.196	132.184
44	M4	Y	.033	-.926	132.184	135.172
45	M4	Y	-.926	-1.908	135.172	138.16
46	M4	Y	-1.908	-1.956	138.16	141.148
47	M5	Y	-.678	-.678	8.861	29.813
48	M14	Y	-2.255	-2.255	0	2.704
49	M15	Y	-1.005	-1.005	0	2.704
50	M36	Y	-1.12	-1.12	0	2.75
51	M37	Y	-2.251	-2.251	0	2.704
52	M39	Y	-.46	-1.848	0	5.66
53	M39	Y	-1.848	-3.733	5.66	11.32
54	M39	Y	-3.733	-4.661	11.32	16.98
55	M39	Y	-4.661	-4.328	16.98	22.64
56	M39	Y	-4.328	-4.184	22.64	28.301
57	M43	Y	-4.193	-4.316	2	7.66

Member Distributed Loads (BLC 46 : BLC 1 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude[...]	End Magnitude[lb/ft.F.psf]	Start Location[in...]	End Location[in...]
58	M43	Y	-4.316	-4.648	7.66	13.32
59	M43	Y	-4.648	-3.732	13.32	18.981
60	M43	Y	-3.732	-1.695	18.981	24.641
61	M43	Y	-1.695	-.082	24.641	30.301
62	M45	Y	-2.96	-2.96	0	4.338
63	M49	Y	-2.957	-2.957	2	6.338
64	M63	Y	-1.299	-5.058	0	10.271
65	M63	Y	-5.058	-8.245	10.271	20.541
66	M63	Y	-8.245	-10.584	20.541	30.812
67	M63	Y	-10.584	-8.432	30.812	41.083
68	M63	Y	-8.432	-2.067	41.083	51.353
69	M67	Y	-1.323	-5.075	0	10.271
70	M67	Y	-5.075	-8.243	10.271	20.541
71	M67	Y	-8.243	-10.699	20.541	30.812
72	M67	Y	-10.699	-8.458	30.812	41.082
73	M67	Y	-8.458	-1.65	41.082	51.353
74	M80	Y	-.663	-.663	0	2.75
75	M2	Y	-.621	-10.609	12.451	22.412
76	M2	Y	-10.609	-13.652	22.412	32.373
77	M2	Y	-13.652	-9.528	32.373	42.333
78	M2	Y	-9.528	-4.759	42.333	52.294
79	M2	Y	-4.759	-.621	52.294	62.255
80	M5	Y	-1.266	-.4	120.233	123.221
81	M5	Y	-.4	.033	123.221	126.208
82	M5	Y	.033	.033	126.208	129.196
83	M5	Y	.033	.033	129.196	132.184
84	M5	Y	.033	-.926	132.184	135.172
85	M5	Y	-.926	-1.908	135.172	138.16
86	M5	Y	-1.908	-1.956	138.16	141.148
87	M6	Y	-.678	-.678	8.861	29.813
88	M20	Y	-1.005	-1.005	0	2.704
89	M23	Y	-.663	-.663	0	2.75
90	M38	Y	-2.255	-2.255	0	2.704
91	M46	Y	-2.251	-2.251	0	2.704
92	M47	Y	-.46	-1.848	0	5.66
93	M47	Y	-1.848	-3.733	5.66	11.32
94	M47	Y	-3.733	-4.661	11.32	16.98
95	M47	Y	-4.661	-4.328	16.98	22.64
96	M47	Y	-4.328	-4.184	22.64	28.301
97	M52	Y	-4.193	-4.316	2	7.66
98	M52	Y	-4.316	-4.648	7.66	13.32
99	M52	Y	-4.648	-3.732	13.32	18.981
100	M52	Y	-3.732	-1.695	18.981	24.641
101	M52	Y	-1.695	-.082	24.641	30.301
102	M54	Y	-2.96	-2.96	0	4.338
103	M58	Y	-2.957	-2.957	2	6.338
104	M59	Y	-1.12	-1.12	0	2.75
105	M70	Y	-1.299	-5.058	0	10.271
106	M70	Y	-5.058	-8.245	10.271	20.541
107	M70	Y	-8.245	-10.584	20.541	30.812
108	M70	Y	-10.584	-8.432	30.812	41.083
109	M70	Y	-8.432	-2.067	41.083	51.353
110	M73	Y	-1.323	-5.075	0	10.271
111	M73	Y	-5.075	-8.243	10.271	20.541
112	M73	Y	-8.243	-10.699	20.541	30.812
113	M73	Y	-10.699	-8.458	30.812	41.082
114	M73	Y	-8.458	-1.65	41.082	51.353

Member Distributed Loads (BLC 47 : BLC 16 Transient Area Loads)

	Member Label	Direction	Start Magnitude[...]	End Magnitude[lb/ft.F,psf]	Start Location[in...]	End Location[in....]
1	M3	Y	-1	-17.101	12.451	22.412
2	M3	Y	-17.101	-21.994	22.412	32.373
3	M3	Y	-21.994	-15.329	32.373	42.333
4	M3	Y	-15.329	-7.642	42.333	52.294
5	M3	Y	-7.642	-1	52.294	62.255
6	M4	Y	-1.092	-1.092	8.861	29.812
7	M6	Y	-494	-494	105	150
8	M24	Y	-1.619	-1.619	0	2.704
9	M27	Y	-1.068	-1.068	0	2.75
10	M28	Y	-1.619	-1.619	0	2.704
11	M31	Y	-1.068	-1.068	0	2.75
12	M56	Y	-132	-2.732	0	5.66
13	M56	Y	-2.732	-6.017	5.66	11.32
14	M56	Y	-6.017	-7.494	11.32	16.98
15	M56	Y	-7.494	-6.96	16.98	22.64
16	M56	Y	-6.96	-6.762	22.64	28.3
17	M60	Y	-6.756	-6.984	2	7.66
18	M60	Y	-6.984	-7.518	7.66	13.32
19	M60	Y	-7.518	-6.021	13.32	18.981
20	M60	Y	-6.021	-2.731	18.981	24.641
21	M60	Y	-2.731	-1.134	24.641	30.301
22	M62	Y	-3.636	-3.636	0	2.704
23	M75	Y	-4.766	-4.766	0	4.338
24	M76	Y	-2.076	-8.129	0	10.271
25	M76	Y	-8.129	-13.237	10.271	20.541
26	M76	Y	-13.237	-17.034	20.541	30.812
27	M76	Y	-17.034	-13.602	30.812	41.083
28	M76	Y	-13.602	-3.308	41.083	51.353
29	M79	Y	-4.68	-4.68	2	6.338
30	M81	Y	-5.238	-8.564	0	10.271
31	M81	Y	-8.564	-12.769	10.271	20.541
32	M81	Y	-12.769	-17.254	20.541	30.812
33	M81	Y	-17.254	-13.511	30.812	41.082
34	M81	Y	-13.511	-2.139	41.082	51.353
35	M1	Y	-1	-17.081	12.451	22.412
36	M1	Y	-17.081	-21.98	22.412	32.373
37	M1	Y	-21.98	-15.339	32.373	42.333
38	M1	Y	-15.339	-7.661	42.333	52.294
39	M1	Y	-7.661	-1	52.294	62.255
40	M4	Y	-2.038	-.644	120.233	123.221
41	M4	Y	-.644	.053	123.221	126.208
42	M4	Y	.053	.053	126.208	129.196
43	M4	Y	.053	.053	129.196	132.184
44	M4	Y	.053	-1.49	132.184	135.172
45	M4	Y	-1.49	-3.072	135.172	138.16
46	M4	Y	-3.072	-3.149	138.16	141.148
47	M5	Y	-1.092	-1.092	8.861	29.813
48	M14	Y	-3.631	-3.631	0	2.704
49	M15	Y	-1.619	-1.619	0	2.704
50	M36	Y	-1.803	-1.803	0	2.75
51	M37	Y	-3.625	-3.625	0	2.704
52	M39	Y	-.74	-2.975	0	5.66
53	M39	Y	-2.975	-6.009	5.66	11.32
54	M39	Y	-6.009	-7.505	11.32	16.98
55	M39	Y	-7.505	-6.968	16.98	22.64
56	M39	Y	-6.968	-6.736	22.64	28.301
57	M43	Y	-6.751	-6.95	2	7.66

Member Distributed Loads (BLC 47 : BLC 16 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude[...]	End Magnitude[lb/ft.F.psf]	Start Location[in...]	End Location[in...]
58	M43	Y	-6.95	-7.482	7.66	13.32
59	M43	Y	-7.482	-6.008	13.32	18.981
60	M43	Y	-6.008	-2.729	18.981	24.641
61	M43	Y	-2.729	-.132	24.641	30.301
62	M45	Y	-4.766	-4.766	0	4.338
63	M49	Y	-4.761	-4.761	2	6.338
64	M63	Y	-2.091	-8.143	0	10.271
65	M63	Y	-8.143	-13.274	10.271	20.541
66	M63	Y	-13.274	-17.04	20.541	30.812
67	M63	Y	-17.04	-13.576	30.812	41.083
68	M63	Y	-13.576	-3.328	41.083	51.353
69	M67	Y	-2.129	-8.171	0	10.271
70	M67	Y	-8.171	-13.272	10.271	20.541
71	M67	Y	-13.272	-17.225	20.541	30.812
72	M67	Y	-17.225	-13.617	30.812	41.082
73	M67	Y	-13.617	-2.657	41.082	51.353
74	M80	Y	-1.068	-1.068	0	2.75
75	M2	Y	-1	-17.081	12.451	22.412
76	M2	Y	-17.081	-21.98	22.412	32.373
77	M2	Y	-21.98	-15.339	32.373	42.333
78	M2	Y	-15.339	-7.661	42.333	52.294
79	M2	Y	-7.661	-1	52.294	62.255
80	M5	Y	-2.038	-.644	120.233	123.221
81	M5	Y	-.644	.053	123.221	126.208
82	M5	Y	.053	.053	126.208	129.196
83	M5	Y	.053	.053	129.196	132.184
84	M5	Y	.053	-1.49	132.184	135.172
85	M5	Y	-1.49	-3.072	135.172	138.16
86	M5	Y	-3.072	-3.149	138.16	141.148
87	M6	Y	-1.092	-1.092	8.861	29.813
88	M20	Y	-1.619	-1.619	0	2.704
89	M23	Y	-1.068	-1.068	0	2.75
90	M38	Y	-3.631	-3.631	0	2.704
91	M46	Y	-3.625	-3.625	0	2.704
92	M47	Y	-.74	-2.975	0	5.66
93	M47	Y	-2.975	-6.009	5.66	11.32
94	M47	Y	-6.009	-7.505	11.32	16.98
95	M47	Y	-7.505	-6.968	16.98	22.64
96	M47	Y	-6.968	-6.736	22.64	28.301
97	M52	Y	-6.751	-6.95	2	7.66
98	M52	Y	-6.95	-7.482	7.66	13.32
99	M52	Y	-7.482	-6.008	13.32	18.981
100	M52	Y	-6.008	-2.729	18.981	24.641
101	M52	Y	-2.729	-.132	24.641	30.301
102	M54	Y	-4.766	-4.766	0	4.338
103	M58	Y	-4.761	-4.761	2	6.338
104	M59	Y	-1.803	-1.803	0	2.75
105	M70	Y	-2.091	-8.143	0	10.271
106	M70	Y	-8.143	-13.274	10.271	20.541
107	M70	Y	-13.274	-17.04	20.541	30.812
108	M70	Y	-17.04	-13.576	30.812	41.083
109	M70	Y	-13.576	-3.328	41.083	51.353
110	M73	Y	-2.129	-8.171	0	10.271
111	M73	Y	-8.171	-13.272	10.271	20.541
112	M73	Y	-13.272	-17.225	20.541	30.812
113	M73	Y	-17.225	-13.617	30.812	41.082
114	M73	Y	-13.617	-2.657	41.082	51.353

Member Area Loads (BLC 1 : Self Weight)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[psf]
1	N105	N120	N54	N69	Y	Two Way	-10
2	N82	N80	N32	N114	Y	Two Way	-10
3	N110	N88	N75	N47	Y	Two Way	-10

Member Area Loads (BLC 16 : Ice Weight)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[psf]
1	N105	N120	N54	N69	Y	Two Way	-16.1
2	N82	N80	N32	N114	Y	Two Way	-16.1
3	N110	N88	N75	N47	Y	Two Way	-16.1

Plate Surface Loads

Plate Label	Direction	Magnitude[psf,F]
No Data to Print ...		



Input Forces



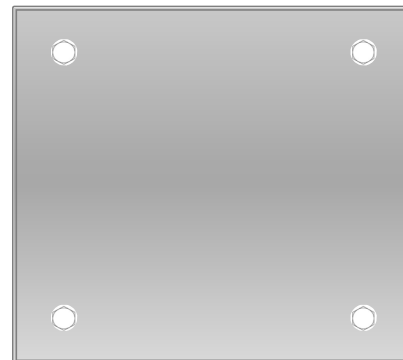
Bolt Calculation Tool, V1.0

PROJECT DATA	
Site Name:	Andover East
Site Number:	CTL01122
Job Code:	1106-A0001-B

APPLIED LOADS		
Bolt Tension:	1438.43	lbs
Bolt Shear:	88.22	lbs

BOLT PROPERTIES		
Bolt Type:	Bolt	-
Bolt Diameter:	0.625	in
Bolt Grade:	A325	-
# of Bolts:	4	-
Threads Excluded?	No	-

BOLT CHECK	
Tensile Strength	20340.15
Shear Strength	12425.24
Tensile Usage	7.1%
Shear Usage	0.7%
Combined Shear and Tension	0.5%
Result	Pass



Mount Analysis and Mapping Checklist

Mount Detail	Both	Inspector (Mapping)
Mount Type	Platform	(Vendor name)
Mount Model Number	SitePro1 RMQP-496-HK	(Inspector name)
If RT, then how is it attached		(Contact phone)
If WT, then how is it attached		(Contact email)
Result of previous mount analysis or PE opinion letter	Pass	

Mount Mapping Detail	Both
Material condition (discoloration, cracks, pitting)	Good
Mfg. drawing, cutsheet, spec. available?	No
Date of previous mount mapping	
Searched prior OEM for material?	Yes
Photos of installation available?	Yes
Original tower drawings show mounts?	No
Searched for previous mapping?	Yes
Is latest mod design (dwgs) available?	No
Is the latest structural analysis available?	No

Project Detail	Both
Market	New England MRCTB042111 / MRCTB025450 / MRCTB025510 / MRCTB042112 /
PACE Project ID	MRCTB042130
Site Name	Andover East
City, State	Andover, CT
RFDS Version Number	5
Initiative (list mult., if applicable)	
Tower Owner	Smartlink
SA Vendor	
A&E firm (for structural analysis)	Infinity
A&E firm (for mapping, if different)	
Last amendment date or last site visit	

Site Information	Both
Original Lease Date	
FA Code	
Tower Type	Monopole
Tower Height (Ft)	178
AT&T Rad Center # 1	137
AT&T Rad Center # 2	

Note: For each table in this form, note whether the information applies to "Mapping" only, or "Both" mount analysis and mapping. Equipment detail is for "Mapping" but is not labeled. Sketches are only required for mapping.

Measurements and Deliverables on sketches	Mapping
Pipe / Angle dimensions and lengths	
bolt diameters and lengths	
U-Bolt diameters and lengths	
Steel Grade if indicated	
welds :length and sizes	
appurtenance relative locations	
Grounding Condition	

	Model Number for Ant, MW, RRU, TMA, Squid / Size of Coax, DC-Fiber Trunks & Jumpers	Height / COAX-DC-Fiber Trunk & Jumper Lengths in feet	Approx Az	mount position location
Equipment Detail Alpha Sector				
Antennas	0	0	0	0
MW	0	0	0	0
RRU	0	0	0	0
TMA	0	0	0	0
Coax	0	0	0	0
RET (not imbedded in antenna)	0	0	0	0
DC Cable	0	0	0	0
Fiber Cable	0	0	0	0
Squid	0	0	0	0
Equipment Detail Beta Sector				
Antennas	0	0	0	0
MW	0	0	0	0
RRU	0	0	0	0
TMA	0	0	0	0
Coax	0	0	0	0
RET (not imbedded in antenna)	0	0	0	0
DC Cable	0	0	0	0
Fiber Cable	0	0	0	0
Squid	0	0	0	0
Equipment Detail Gamma Sector				
Antennas	0	0	0	0
MW	0	0	0	0
RRU	0	0	0	0
TMA	0	0	0	0
Coax	0	0	0	0
RET (not imbedded in antenna)	0	0	0	0
DC Cable	0	0	0	0
Fiber Cable	0	0	0	0
Squid	0	0	0	0

Comments



11/15/19

Memo: No Initial Zoning Decision Found

Upon consulting with the Building Inspector for the Town of Andover, it was determined that no initial zoning decision for this tower could be found. His phone number is 860-742-4036.

Kristina Cottone
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North Billerica, MA 01862