

March 4, 2020

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

Regarding: Notice of Exempt Modification – AT&T Site CT2051/ ATC Asset 302498
Address: 45 Spaulding Road, Plainfield, CT 06374

Dear Ms. Bachman:

New Cingular Wireless, PCS, LLC (“AT&T”) currently maintains a wireless telecommunications facility on an existing +/- 150’ monopole tower at the above-referenced address, latitude 41.674800, longitude -71.879100. Said monopole tower is operated by American Tower Corporation.

AT&T desires to modify its existing telecommunications facility by removing six (6) antennas, adding nine (9) antennas, removing six (6) remote radio units (“RRU”), adding twelve (12) RRU, removing six (6) diplexers, removing six (6) coax, adding one (1) surge arrestor and feedlines as more particularly detailed and described in the enclosed Construction Drawings prepared by A.T. Engineering Service, PLLC, last revised July 22, 2020. The centerline height of the existing antennas is and will remain at 154 feet. AT&T will also be conducting Structural Modifications as more particularly detailed and described in the enclosed Structural Modification Drawings prepared by A.T. Engineering Service, PLLC, dated February 8, 2021. This modification/proposal includes B2, B5, and B12 hardware that is both 4G(LTE) and 5G NR capable through remote software configuration and either or both services may be turned on or off at various times.

Please accept this letter as notification pursuant to R.C.S.A §16-50j-73 for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to the following individuals: Kevin Cunningham, First Selectman of the Town of Plainfield; Mary Ann Chinatti, Planning and Zoning Supervisor of the Town of Plainfield; American Tower Corporation, as tower operator and Robert Dominez Sanchez and Nicole Sanchez as underlying property owners. Please note, the original zoning approval was requested from the Town of Plainfield and it was confirmed that there was no such documentation in their files.

The planned modifications to the facility fall squarely within those activities explicitly provided for in R.C.S.A. § 16-50j-72(b)(2). Specifically:

1. The proposed modifications will not result in an increase in the height of the existing structure.

2. The proposed modifications will not require an extension of the site boundary.
3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
4. The operation of the modified facility will not increase radio frequency emissions at the facility to a level at or above the Federal Communications Commission safety standard. *Please see the RF emissions calculation for AT&T's modified facility enclosed herewith.*
5. The proposed modifications will not cause an ineligible change or alteration in the physical or environmental characteristics of the site.
6. The existing structure and its foundation can support the proposed loading. *Please see the structural analysis dated February 16, 2021 and prepared by American Tower Corporation enclosed herewith.*

For the foregoing reasons, AT&T respectfully submits that the proposed modifications to the above referenced telecommunications facility constitute an exempt modification under R.C.S.A. § 16-50j-72(b)(2).

Sincerely,

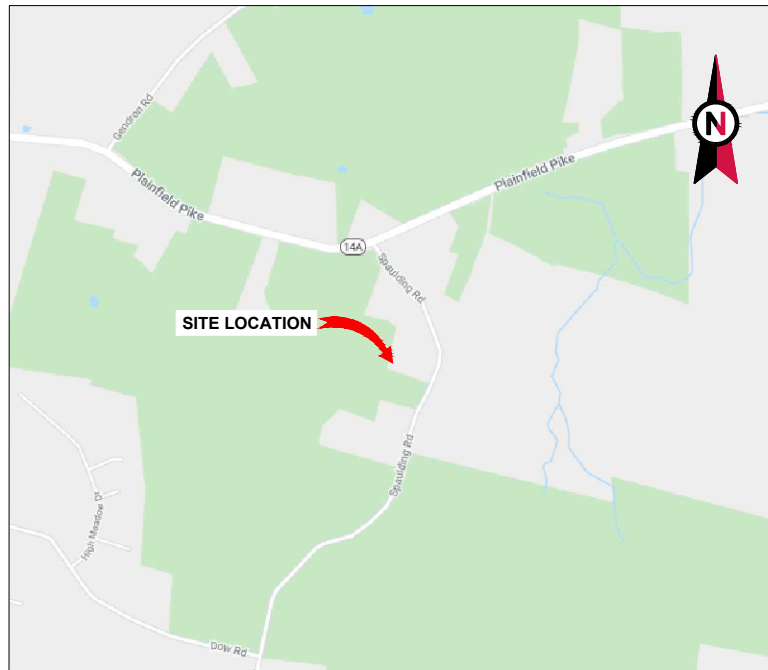


Jennifer Iliades
Site Acquisition Consultant
Centerline Communications, LLC
750 West Center Street, Suite 301
West Bridgewater, MA 02379
jiliades@clinellc.com

Enclosures: Exhibit 1 – Construction Drawings
Exhibit 2 – Property Card and GIS
Exhibit 3 – Structural Analysis
Exhibit 4 – Structural Modification Drawings
Exhibit 5 – Mount Analysis
Exhibit 6 – RF Emissions Analysis Report Evaluation
Exhibit 7 – Original Tower Approval
Exhibit 8 – Notice Delivery Confirmations

cc: Kevin Cunningham, First Selectman of the Town of Plainfield
Mary Ann Chinatti, Planning and Zoning Supervisor of the Town of Plainfield
Robert Dominez Sanchez and Nicole Sanchez as underlying property owners
American Tower Corporation, as tower operator

EXHIBIT 1



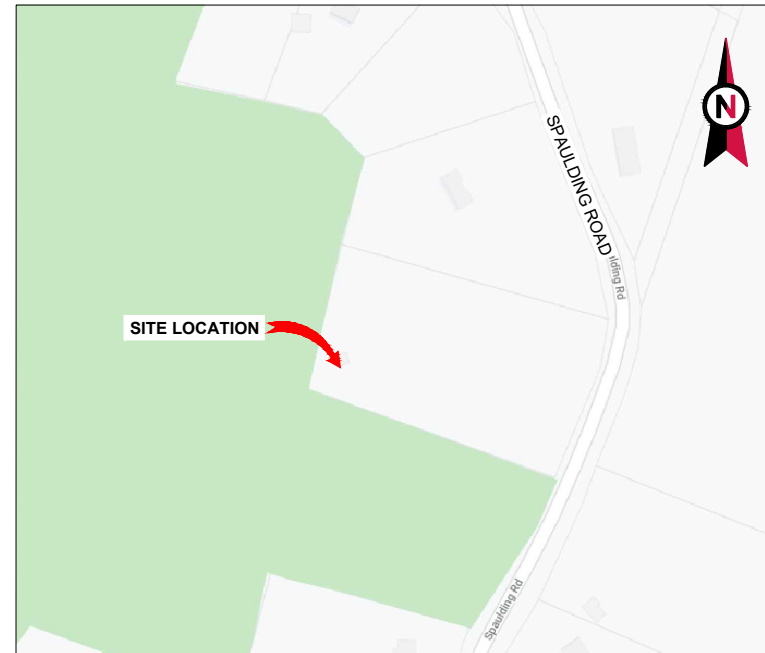
VICINITY MAP

CURRENT PROJECTS:
 LTE 5C - PACE #: MRCTB046850
 4TX4RX - PACE #: MRCTB046859
 4TX4RX - PACE #: MRCTB046857
 5G NR 1DR-1 - PACE #: MRCTB046795
 LTE 3C - PACE #: MRCTB046596
 LTE 4C - PACE #: MRCTB046885



AMERICAN TOWER®

ATC SITE NAME: PLAINFIELD CT 6
 ATC SITE NUMBER: 302498
 AT&T PACE NUMBER: MRCTB046850
 AT&T SITE ID: CTL02051
 AT&T FA CODE: 10035013
 AT&T SITE NAME: PLAINFIELD-SPAULDING RD
 SITE ADDRESS: 45 SPAULDING ROAD
 PLAINFIELD, CT 06374-1824
 AT&T MOBILITY PLAN: LTE 5C/3C/4C, 4TX4RX, 5G NR 1DR-1
**AT&T MOBILITY
 ANTENNA AMENDMENT PLAN**



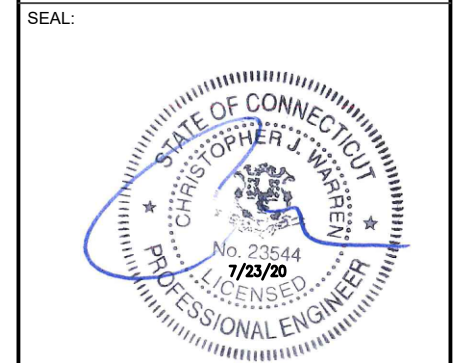
LOCATION MAP

AMERICAN TOWER®
 A.T. ENGINEERING SERVICE, PLLC
 3500 REGENCY PARKWAY
 SUITE 100
 CARY, NC 27518
 PHONE: (919) 468-0112
 COA: PEC.0001553

INFINIGY®
 ENGINEERING, PLLC
 1211 SR 436, SUITE 101
 CASSELBERRY, FL 32707 OFFICE: 407-278-6750

| REV. | DESCRIPTION | BY | DATE |
|------|--------------|----|----------|
| A | PRELIM | IB | 07/02/20 |
| O | CONSTRUCTION | DB | 07/22/20 |
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ATC SITE NUMBER:
302498
 ATC SITE NAME:
PLAINFIELD CT 6
 AT&T MOBILITY SITE NAME:
PLAINFIELD-SPAULDING RD
 SITE ADDRESS:
 45 SPAULDING ROAD
 PLAINFIELD, CT 06374-1824



| | |
|--------------|-------------------------|
| DATE DRAWN: | 07/02/20 |
| ATC JOB NO: | 13211930_G3 |
| CUSTOMER ID: | PLAINFIELD-SPAULDING RD |
| CUSTOMER #: | 10035013 |

TITLE SHEET

SHEET NUMBER:
G-001
 REVISION:
0

| COMPLIANCE CODE | PROJECT SUMMARY | PROJECT DESCRIPTION | SHEET INDEX | | | | |
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| ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNMENT AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES. 1. 2018 INTERNATIONAL BUILDING CODE (IBC) 2. 2020 NATIONAL ELECTRIC CODE (NEC) 3. LOCAL BUILDING CODE 4. CITY/COUNTY ORDINANCES | <u>SITE ADDRESS:</u> 45 SPAULDING ROAD PLAINFIELD, CT 06374-1824 COUNTY: WINDHAM <u>GEOGRAPHIC COORDINATES:</u> LATITUDE: 41.67480556 LONGITUDE: -71.8791 GROUND ELEVATION: 560' AMSL | THE PROPOSED PROJECT INCLUDES MODIFYING GROUND BASED AND TOWER MOUNTED EQUIPMENT AS INDICATED PER BELOW: <u>TOWER WORK:</u> REMOVE (3) POWERWAVE 7770 ANTENNA(S), (1) ANDREW SBNH-1D6565C ANTENNA, (2) KMW AM-X-CD-17-65-00T-RET ANTENNA(S), (6) POWERWAVE / LGP 21901 DIPLEXER(S), (3) RRUS-12 B2 RRH(S), (3) RRUS-11 B12 RRH(S), AND (6) GSM COAX CABLE(S) INSTALL (3) CCI HPA65R-BU8A ANTENNA(S), (3) CCI OPA65R-BU8DA ANTENNA(S), (3) CCI DMP65R-BU8DA ANTENNA(S), (3) 4415 B30 RRH(S), (3) 4478 B14 RRH(S), (3) 4449 B5/B12 RRH(S), (3) 8843 B2/B66A RRH(S), (1) UMTS RET, (2) 2" FLEX CONDUIT(S), (1) SQUID(S), (2) #6 DC TRUNK(S), AND (1) 18 PAIR FIBER TRUNK(S) EXISTING (3) ANTENNA(S), (6) TMA, (1) SQUID(S) AND (6) GSM COAX CABLE(S) TO REMAIN <u>GROUND WORK:</u> INSTALL (2) 6630, (1) IDLE, (1) FIBER MANAGEMENT BOX, (1) DC12, (2) BREAKER PANELS, AND (1) UMTS RET HOMERUN | SHEET NO: | DESCRIPTION: | REV: | DATE: | BY: |
| | <u>PROJECT TEAM</u> <u>TOWER OWNER:</u> AMERICAN TOWER 10 PRESIDENTIAL WAY WOBURN, MA 01801 <u>APPLICANT:</u> AT&T MOBILITY <u>ENGINEER:</u> INFINIGY ENGINEERING, PLLC 1211 SR 436, SUITE 101 CASSELBERRY, FL 32707 OFFICE: 407-278-6750 <u>PROPERTY OWNER:</u> T6 UNISON SITE MANAGEMENT LLC PO BOX 75655 BALTIMORE - MD - 21275 | <u>PROJECT NOTES</u> 1. THE FACILITY IS UNMANNED. 2. A TECHNICIAN WILL VISIT THE SITE APPROXIMATELY ONCE A MONTH FOR ROUTINE INSPECTION AND MAINTENANCE. 3. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT LAND DISTURBANCE OR EFFECT OF STORM WATER DRAINAGE. 4. NO SANITARY SEWER, POTABLE WATER OR TRASH DISPOSAL IS REQUIRED. 5. HANDICAP ACCESS IS NOT REQUIRED. | G-001 | TITLE SHEET | 0 | 07/22/20 | DB |
| <u>UTILITY COMPANIES</u> POWER COMPANY: C. L. & P. PHONE: (800) 286-2000 TELEPHONE COMPANY: AT&T PHONE: (800) 288-2020 | <u>PROJECT LOCATION DIRECTIONS</u> FROM BOSTON - I 90 WEST TO I 395 SOUTH TO EXIT 88 AND TURN LEFT ON TO RT 14A EAST. FOLLOW AND THEN TURN RIGHT ONTO SPAULDING RD. SITE WILL BE UP ON THE RIGHT. | C-001 | OVERALL SITE PLAN | 0 | 07/22/20 | DB | |
| 811 Know what's below. Call before you dig. | | C-101 | DETAILED SITE PLAN | 0 | 07/22/20 | DB | |
| | | C-201 | TOWER ELEVATION | 0 | 07/22/20 | DB | |
| | | C-401 | RF SCHEDULE AND ANTENNA INSTALLATION | 0 | 07/22/20 | DB | |
| | | C-501 | CONSTRUCTION DETAILS | 0 | 07/22/20 | DB | |
| | | C-502 | EQUIPMENT SPECIFICATIONS | 0 | 07/22/20 | DB | |
| | | E-501 | GROUNDING DETAILS | 0 | 07/22/20 | DB | |
| | | R-601 | SUPPLEMENTAL | 0 | 07/22/20 | DB | |
| | | R-602 | SUPPLEMENTAL | 0 | 07/22/20 | DB | |
| | | R-603 | SUPPLEMENTAL | 0 | 07/22/20 | DB | |
| | | R-604 | SUPPLEMENTAL | 0 | 07/22/20 | DB | |

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GENERAL CONSTRUCTION NOTES:

1. OWNER FURNISHED MATERIALS, AT&T MOBILITY "THE COMPANY" WILL PROVIDE AND THE CONTRACTOR WILL INSTALL
 - A. BTS EQUIPMENT FRAME (PLATFORM) AND ICEBRIDGE SHELTER (GROUND BUILD/CO-LOCATE ONLY)
 - B. AC/TELCO INTERFACE BOX (PPC)
 - C. ICE BRIDGE (CABLE TRAY WITH COVER) (GROUND BUILD/CO-LOCATE ONLY, GC TO FURNISH AND INSTALL FOR ROOFTOP INSTALLATION)
 - D. TOWERS, MONOPOLES
 - E. TOWER LIGHTING
 - F. GENERATORS & LIQUID PROPANE TANK
 - G. ANTENNA STANDARD BRACKETS, FRAMES AND PIPES FOR MOUNTING
 - H. ANTENNAS (INSTALLED BY OTHERS)
 - I. TRANSMISSION LINE
 - J. TRANSMISSION LINE JUMPERS
 - K. TRANSMISSION LINE CONNECTORS WITH WEATHERPROOFING KITS
 - L. TRANSMISSION LINE GROUND KITS
 - M. HANGERS
 - N. HOISTING GRIPS
 - O. BTS EQUIPMENT
2. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL OTHER MATERIALS FOR THE COMPLETE INSTALLATION OF THE SITE INCLUDING, BUT NOT LIMITED TO, SUCH MATERIALS AS FENCING, STRUCTURAL STEEL SUPPORTING SUB-FRAME FOR PLATFORM, ROOFING LABOR AND MATERIALS, GROUNDING RINGS, GROUNDING WIRES, COPPER-CLAD OR XIT CHEMICAL GROUND ROD(S), BUSS BARS, TRANSFORMERS AND DISCONNECT SWITCHES WHERE APPLICABLE, TEMPORARY ELECTRICAL POWER, CONDUIT, LANDSCAPING COMPOUND STONE, CRANES, CORE DRILLING, SLEEPERS AND RUBBER MATTING, REBAR, CONCRETE CAISSONS, PADS AND/OR AUGER MOUNTS, MISCELLANEOUS FASTENERS, CABLE TRAYS, NON-STANDARD ANTENNA FRAMES AND ALL OTHER MATERIAL AND LABOR REQUIRED TO COMPLETE THE JOB ACCORDING TO THE DRAWINGS AND SPECIFICATIONS. IT IS THE POSITION OF AT&T MOBILITY TO APPLY FOR PERMITTING AND CONTRACTOR RESPONSIBLE FOR PICKUP AND PAYMENT OF REQUIRED PERMITS.
3. ALL WORK SHALL CONFORM TO ALL CURRENT APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING ANSIEIA/NTIA-222, AND COMPLY WITH ATC CONSTRUCTION SPECIFICATIONS.
4. CONTRACTOR SHALL CONTACT LOCAL 811 FOR IDENTIFICATION OF UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED INSPECTIONS.
6. ALL DIMENSIONS TO, OF, AND ON EXISTING BUILDINGS, DRAINAGE STRUCTURES, AND SITE IMPROVEMENTS SHALL BE VERIFIED IN FIELD BY CONTRACTOR WITH ALL DISCREPANCIES REPORTED TO THE ENGINEER.
7. DO NOT CHANGE SIZE OR SPACING OF STRUCTURAL ELEMENTS.
8. DETAILS SHOWN ARE TYPICAL; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
9. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
10. CONTRACTOR SHALL BRACE STRUCTURES UNTIL ALL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: LATERAL BRACING, ANCHOR BOLTS, ETC.
11. CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES, GROUNDS DRAINS, DRAIN PIPES, VENTS, ETC. BEFORE COMMENCING WORK.
12. INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE AT&T MOBILITY REP PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH REMEDIAL ACTION SHALL REQUIRE WRITTEN APPROVAL BY THE AT&T MOBILITY REP PRIOR TO PROCEEDING.
13. EACH CONTRACTOR SHALL COOPERATE WITH THE AT&T MOBILITY REP, AND COORDINATE HIS WORK WITH THE WORK OF OTHERS.
14. CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED BY CONSTRUCTION OF THIS PROJECT TO MATCH EXISTING PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE AT&T MOBILITY CONSTRUCTION MANAGER.
15. ALL CABLE/CONDUIT ENTRY/EXIT PORTS SHALL BE WEATHERPROOFED DURING INSTALLATION USING A SILICONE SEALANT.
16. WHERE EXISTING CONDITIONS DO NOT MATCH THOSE SHOWN IN THIS PLAN SET, CONTRACTOR SHALL NOTIFY THE AT&T MOBILITY REP AND ENGINEER OF RECORD IMMEDIATELY.
17. CONTRACTOR SHALL ENSURE ALL SUBCONTRACTORS ARE PROVIDED WITH A COMPLETE AND CURRENT SET OF DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.
18. CONTRACTOR SHALL REMOVE ALL RUBBISH AND DEBRIS FROM THE SITE AT THE END OF EACH DAY.
19. CONTRACTOR SHALL COORDINATE WORK SCHEDULE WITH AMERICAN TOWER CORPORATION (ATC) AND TAKE PRECAUTIONS TO MINIMIZE IMPACT AND DISRUPTION OF OTHER OCCUPANTS OF THE FACILITY.
20. CONTRACTOR SHALL FURNISH AT&T MOBILITY AND AMERICAN TOWER CORPORATION (ATC) WITH A PDF MARKED UP AS-BUILT SET OF DRAWINGS UPON COMPLETION OF WORK.
21. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH AT&T MOBILITY REP TO DETERMINE WHAT, IF ANY, ITEMS WILL BE PROVIDED. ALL ITEMS NOT PROVIDED SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR. CONTRACTOR WILL INSTALL

- ALL ITEMS PROVIDED.
22. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH AT&T MOBILITY REP TO DETERMINE IF ANY PERMITS WILL BE OBTAINED BY CONTRACTOR. ALL REQUIRED PERMITS NOT OBTAINED BY AT&T MOBILITY MUST BE OBTAINED, AND PAID FOR, BY THE CONTRACTOR.
 23. CONTRACTOR SHALL INSTALL ALL SITE SIGNAGE IN ACCORDANCE WITH AT&T MOBILITY SPECIFICATIONS AND REQUIREMENTS.
 24. CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS TO AT&T MOBILITY FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
 25. ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND LOCATED ACCORDING TO AT&T MOBILITY SPECIFICATIONS, AND AS SHOWN IN THESE PLANS.
 26. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
 27. CONTRACTOR SHALL NOTIFY AT&T MOBILITY REP A MINIMUM OF 48 HOURS IN ADVANCE OF POURING CONCRETE OR BACKFILLING ANY UNDERGROUND UTILITIES, FOUNDATIONS OR SEALING ANY WALL, FLOOR OR ROOF PENETRATIONS FOR ENGINEERING REVIEW AND APPROVAL.
 28. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SAFETY INCLUDING COMPLIANCE WITH ALL APPLICABLE OSHA STANDARDS AND RECOMMENDATIONS AND SHALL PROVIDE ALL NECESSARY SAFETY DEVICES INCLUDING PPE AND PPM AND CONSTRUCTION DEVICES SUCH AS WELDING AND FIRE PREVENTION, TEMPORARY SHORING, SCAFFOLDING, TRENCH BOXES/SLOPING, BARRIERS, ETC.
 29. THE CONTRACTOR SHALL PROTECT AT HIS OWN EXPENSE, ALL EXISTING FACILITIES AND SUCH OF HIS NEW WORK LIABLE TO INJURY DURING THE CONSTRUCTION PERIOD. ANY DAMAGE CAUSED BY NEGLIGENCE ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, OR BY THE ELEMENTS DUE TO NEGLIGENCE ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, EITHER TO THE EXISTING WORK, OR TO HIS WORK OR THE WORK OF ANY OTHER CONTRACTOR, SHALL BE REPAIRED AT HIS EXPENSE TO THE OWNER'S SATISFACTION.
 30. ALL WORK SHALL BE INSTALLED IN A FIRST CLASS, NEAT AND WORKMANLIKE MANNER BY MECHANICS SKILLED IN THE TRADE INVOLVED. THE QUALITY OF WORKMANSHIP SHALL BE SUBJECT TO THE APPROVAL OF THE AT&T MOBILITY REP. ANY WORK FOUND BY THE AT&T MOBILITY REP TO BE OF INFERIOR QUALITY AND/OR WORKMANSHIP SHALL BE REPLACED AND/OR REWORKED AT CONTRACTOR EXPENSE UNTIL APPROVAL IS OBTAINED.
 31. IN ORDER TO ESTABLISH STANDARDS OF QUALITY AND PERFORMANCE, ALL TYPES OF MATERIALS LISTED HEREINAFTER BY MANUFACTURER'S NAMES AND/OR MANUFACTURER'S CATALOG NUMBER SHALL BE PROVIDED BY THESE MANUFACTURERS AS SPECIFIED.
 32. AT&T MOBILITY FURNISHED EQUIPMENT SHALL BE PICKED-UP AT THE AT&T MOBILITY WAREHOUSE, NO LATER THAN 48HR AFTER BEING NOTIFIED INSURED, STORED, UNGRATE, PROTECTED AND INSTALLED BY THE CONTRACTOR WITH ALL APPURTENANCES REQUIRED TO PLACE THE EQUIPMENT IN OPERATION, READY FOR USE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EQUIPMENT AFTER PICKING IT UP.
 33. AT&T MOBILITY OR HIS ARCHITECT/ENGINEER RESERVES THE RIGHT TO REJECT ANY EQUIPMENT OR MATERIALS WHICH, IN HIS OWN OPINION ARE NOT IN COMPLIANCE WITH THE CONTRACT DOCUMENTS, EITHER BEFORE OR AFTER INSTALLATION AND THE EQUIPMENT SHALL BE REPLACED WITH EQUIPMENT CONFORMING TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS BY THE CONTRACTOR AT NO COST TO AT&T MOBILITY OR THEIR ARCHITECT/ENGINEER.

SPECIAL CONSTRUCTION

ANTENNA INSTALLATION NOTES:

1. WORK INCLUDED:
 - A. ANTENNA AND COAXIAL CABLES ARE FURNISHED BY AT&T MOBILITY UNDER A SEPARATE CONTRACT. THE CONTRACTOR SHALL ASSIST ANTENNA INSTALLATION CONTRACTOR IN TERMS OF COORDINATION AND SITE ACCESS. ERECTION SUBCONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF PERSONNEL AND
 - B. INSTALL ANTENNA AS INDICATE ON DRAWINGS AND AT&T MOBILITY SPECIFICATIONS.
 - C. INSTALL GALVANIZED STEEL ANTENNA MOUNTS AS INDICATED ON DRAWINGS
 - D. INSTALL FURNISHED GALVANIZED STEEL OR ALUMINUM WAVEGUIDE AND PROVIDE PRINTOUT OF THAT TEST.
 - E. CONTRACTOR SHALL PROVIDE FOUR (4) SETS OF SWEEP TESTS USING ANRITZU-PACKARD 8713B RF SCALAR NETWORK ANALYZER. SUBMIT FREQUENCY DOMAIN REFLECTOMETER(FDR) TESTS RESULTS TO THE PROJECT MANAGER. SWEEP TESTS SHALL BE AS PER ATTACHED RFS "MINIMUM FIELD TESTING RECOMMENDED FOR ANTENNA AND HELIAX COAXIAL CABLE SYSTEMS" DATED 10/5/93. TESTING SHALL BE PERFORMED BY AN INDEPENDENT TESTING SERVICE AND BE BOUND AND SUBMITTED WITHIN ONE WEEK OF WORK COMPLETION.
 - F. INSTALL COAXIAL CABLES AND TERMINATING BETWEEN ANTENNAS AND EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. WEATHERPROOF ALL CONNECTIONS BETWEEN THE ANTENNA AND EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. TERMINATE ALL COAXIAL CABLE THREE (3) FEET IN EXCESS OF ENTRY PORT LOCATION UNLESS OTHERWISE STATED.
 - G. ANTENNA AND COAXIAL CABLE GROUNDING:
2. ALL EXTERIOR #6 GREED GROUND WIRE "DAISY CHAIN" CONNECTIONS ARE TO BE

WEATHER SEALED WITH RFS CONNECTORS/SPLICE WEATHERPROOFING KIT #221213 OR EQUAL.

3. ALL COAXIAL CABLE GROUNDING KITS ARE TO BE INSTALLED ON STRAIGHT RUNS OF COAXIAL CABLE (NOT WITHIN BENDS)

ALL DISCREPANCIES FROM WHAT IS SHOWN ON THESE CONSTRUCTION DRAWINGS SHALL BE COMMUNICATED TO ATC ENGINEERING IMMEDIATELY FOR CORRECTION OR RE-DESIGN. FAILURE TO COMMUNICATE DIRECTLY WITH ATC ENGINEERING OR ANY CHANGES FROM THE DESIGN CONDUCTED WITHOUT PRIOR APPROVAL FROM ATC ENGINEERING SHALL BE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

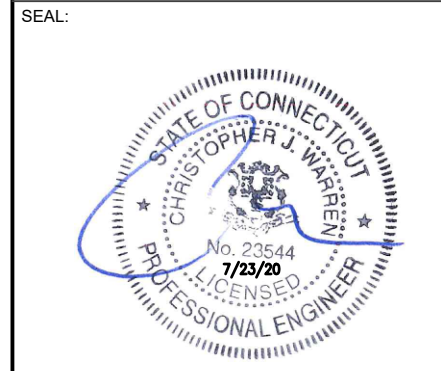


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PLAINFIELD CT 6
 AT&T MOBILITY SITE NAME:
PLAINFIELD-SPAULDING RD
 SITE ADDRESS:
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GENERAL NOTES

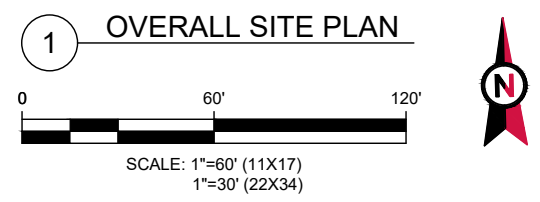
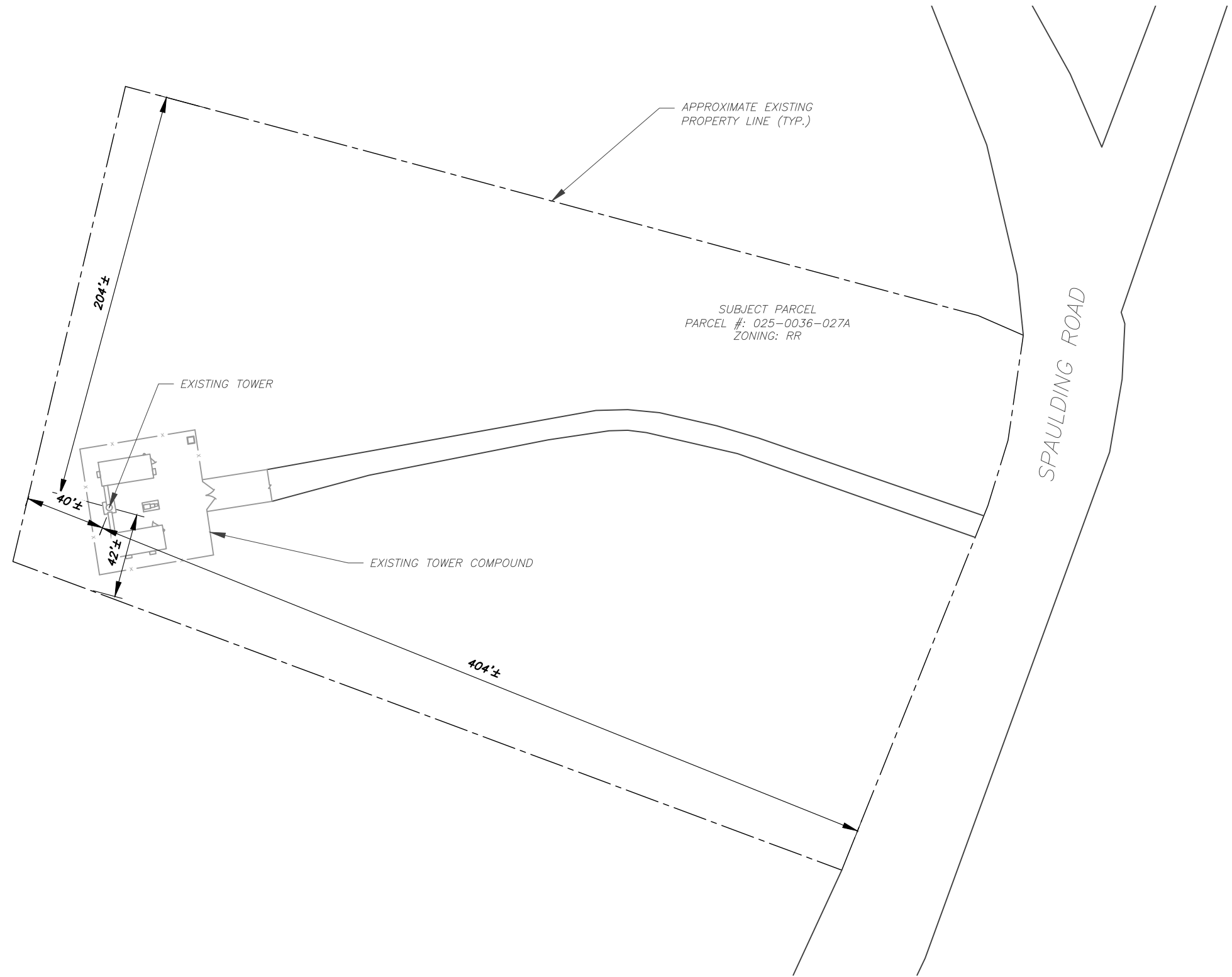
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| SHEET NUMBER: G-002 | REVISION: 0 |
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NOTES:

- BOUNDARY LINES OBTAINED FROM WINDHAM COUNTY ONLINE GIS.
- ZONING INFORMATION OBTAINED FROM WINDHAM COUNTY

INFORMATION CONTAINED WITHIN THESE DRAWINGS IS BASED ON PROVIDED INFORMATION. CONTRACTOR TO VERIFY PRIOR TO CONSTRUCTION.



AMERICAN TOWER®
A.T. ENGINEERING SERVICE, PLLC
3500 REGENCY PARKWAY
SUITE 100
CARY, NC 27518
PHONE: (919) 468-0112
COA: PEC.0001553

INFINIGY®
ENGINEERING, PLLC
1211 SR 436, SUITE 101
CASSELBERRY, FL 32707 OFFICE: 407-278-6750

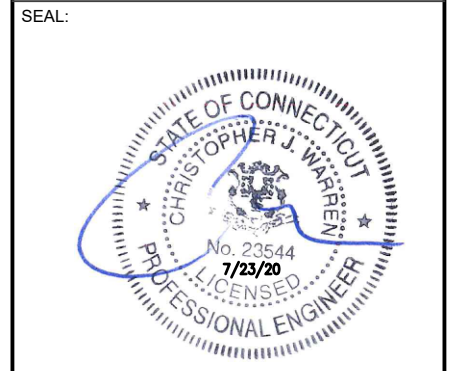
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ATC SITE NUMBER:
302498

ATC SITE NAME:
PLAINFIELD CT 6

AT&T MOBILITY SITE NAME:
PLAINFIELD-SPAULDING RD

SITE ADDRESS:
45 SPAULDING ROAD
PLAINFIELD, CT 06374-1824



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| CUSTOMER ID: | PLAINFIELD-SPAULDING RD |
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OVERALL SITE PLAN

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|-------------------------------|-----------------------|
| SHEET NUMBER: C-001 | REVISION: 0 |
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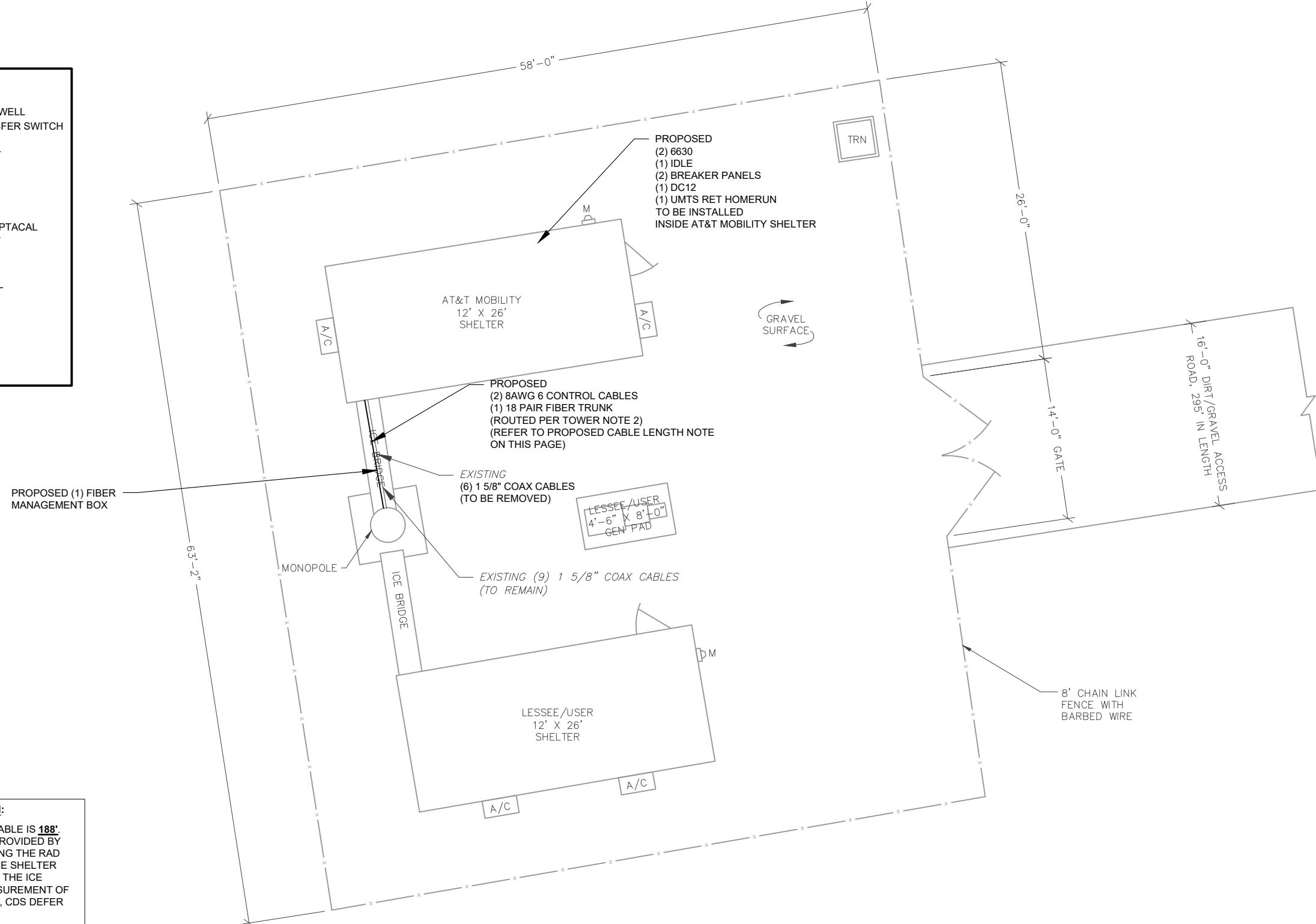
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SITE PLAN NOTES:

- THIS SITE PLAN REPRESENTS THE BEST PRESENT KNOWLEDGE AVAILABLE TO THE ENGINEER AT THE TIME OF THIS DESIGN. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO CONSTRUCTION AND VERIFY ALL EXISTING CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT.
- ICE BRIDGE, CABLE LADDER, COAX PORT, AND COAX CABLE ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL CONFIRM THE EXACT LOCATION OF ALL PROPOSED AND EXISTING EQUIPMENT AND STRUCTURES DEPICTED ON THIS PLAN. BEFORE UTILIZING EXISTING CABLE SUPPORTS, COAX PORTS, INSTALLING NEW PORTS OR ANY OTHER EQUIPMENT, CONTRACTOR SHALL VERIFY ALL ASPECTS OF THE COMPONENTS MEET THE ATC SPECIFICATIONS.

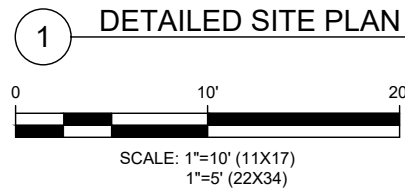
INFORMATION CONTAINED WITHIN THESE DRAWINGS IS BASED ON PROVIDED INFORMATION. CONTRACTOR TO VERIFY PRIOR TO CONSTRUCTION.

| LEGEND | |
|--------|---------------------------|
| ⊗ | GROUNDING TEST WELL |
| ATS | AUTOMATIC TRANSFER SWITCH |
| B | BOLLARD |
| CSC | CELL SITE CABINET |
| D | DISCONNECT |
| E | ELECTRICAL |
| F | FIBER |
| GEN | GENERATOR |
| G | GENERATOR RECEPTACAL |
| HH, V | HAND HOLE, VAULT |
| IB | ICE BRIDGE |
| K | KENTROX BOX |
| LC | LIGHTING CONTROL |
| M | METER |
| PB | PULL BOX |
| PP | POWER POLE |
| T | TELCO |
| TRN | TRANSFORMER |
| x | CHAINLINK FENCE |



PROPOSED CABLE LENGTH:

- ESTIMATED LENGTH OF PROPOSED CABLE IS **188'**. ESTIMATED LENGTH OF CABLE WAS PROVIDED BY CUSTOMER OR CALCULATED BY ADDING THE RAD CENTER AND THE DISTANCE FROM THE SHELTER ENTRY PLATE TO THE TOWER (ALONG THE ICE BRIDGE) AND A SAFETY FACTOR MEASUREMENT OF 15% (OF THE TWO PREVIOUS VALUES), CDS DEFER TO GREATEST CABLE LENGTH.
- ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. IF ADEQUATE SPACE EXISTS, ROUTE CABLES THROUGH ENTRY PORT HOLE, UP INSIDE OF MONOPOLE, AND THROUGH EXIT PORT HOLE. IF ROUTING OUTSIDE THE MONOPOLE, ATTACH CABLES USING STAND-OFF ADAPTERS MOUNTED TO TOWER USING STAINLESS STEEL BANDING. ADEQUATELY SECURE CABLES USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER.

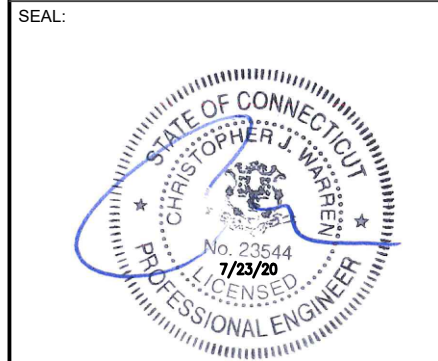


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| REV. | DESCRIPTION | BY | DATE |
|------|--------------|----|----------|
| A | PRELIM | IB | 07/02/20 |
| 0 | CONSTRUCTION | DB | 07/22/20 |
| | | | |
| | | | |
| | | | |

ATC SITE NUMBER:
302498
 ATC SITE NAME:
PLAINFIELD CT 6
 AT&T MOBILITY SITE NAME:
PLAINFIELD-SPAULDING RD
 SITE ADDRESS:
 45 SPAULDING ROAD
 PLAINFIELD, CT 06374-1824



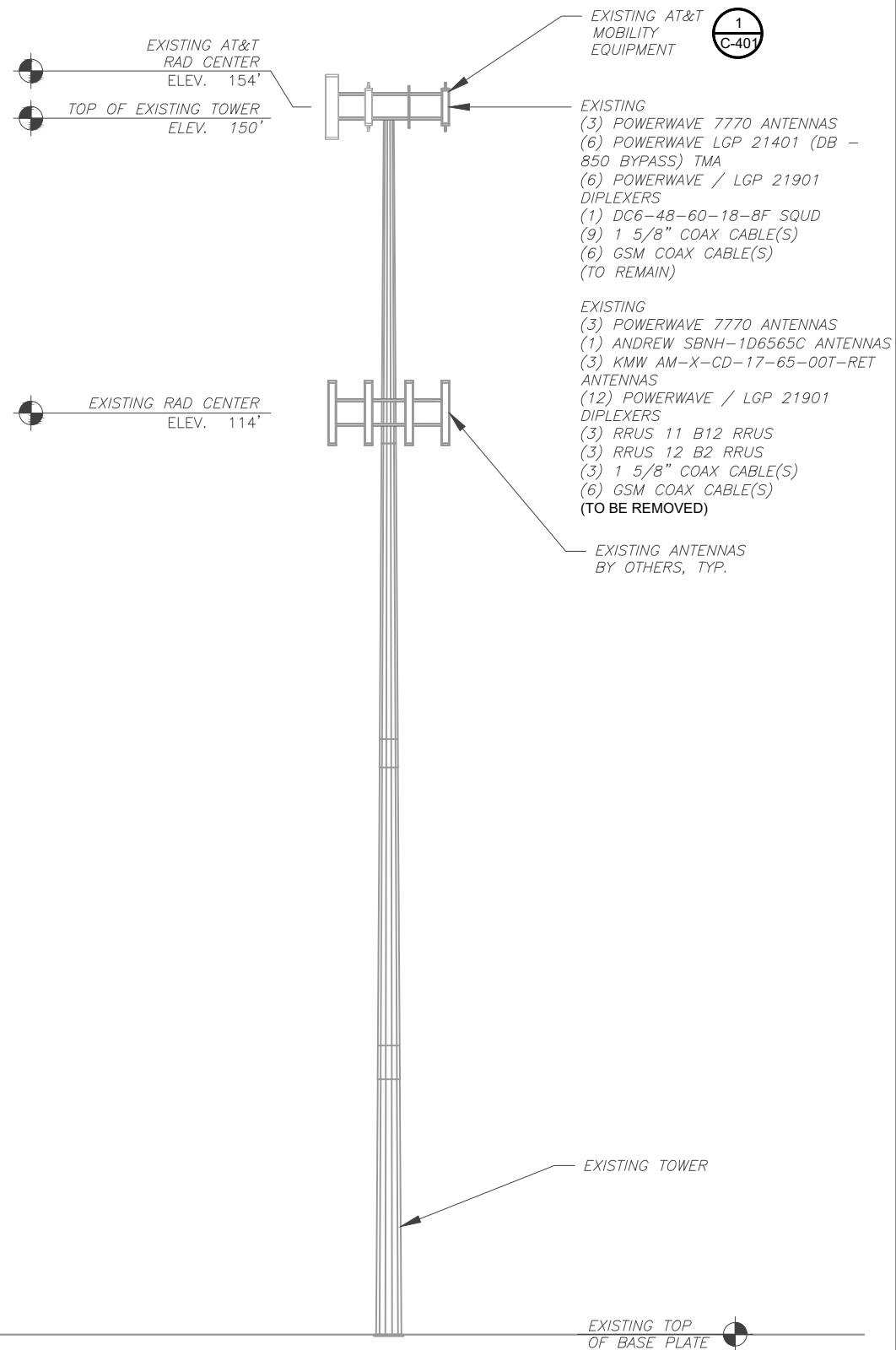
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|--------------|-------------------------|
| DATE DRAWN: | 07/02/20 |
| ATC JOB NO: | 13211930_G3 |
| CUSTOMER ID: | PLAINFIELD-SPAULDING RD |
| CUSTOMER #: | 10035013 |

DETAILED SITE PLAN

| | |
|---------------|-----------|
| SHEET NUMBER: | REVISION: |
| C-101 | 0 |

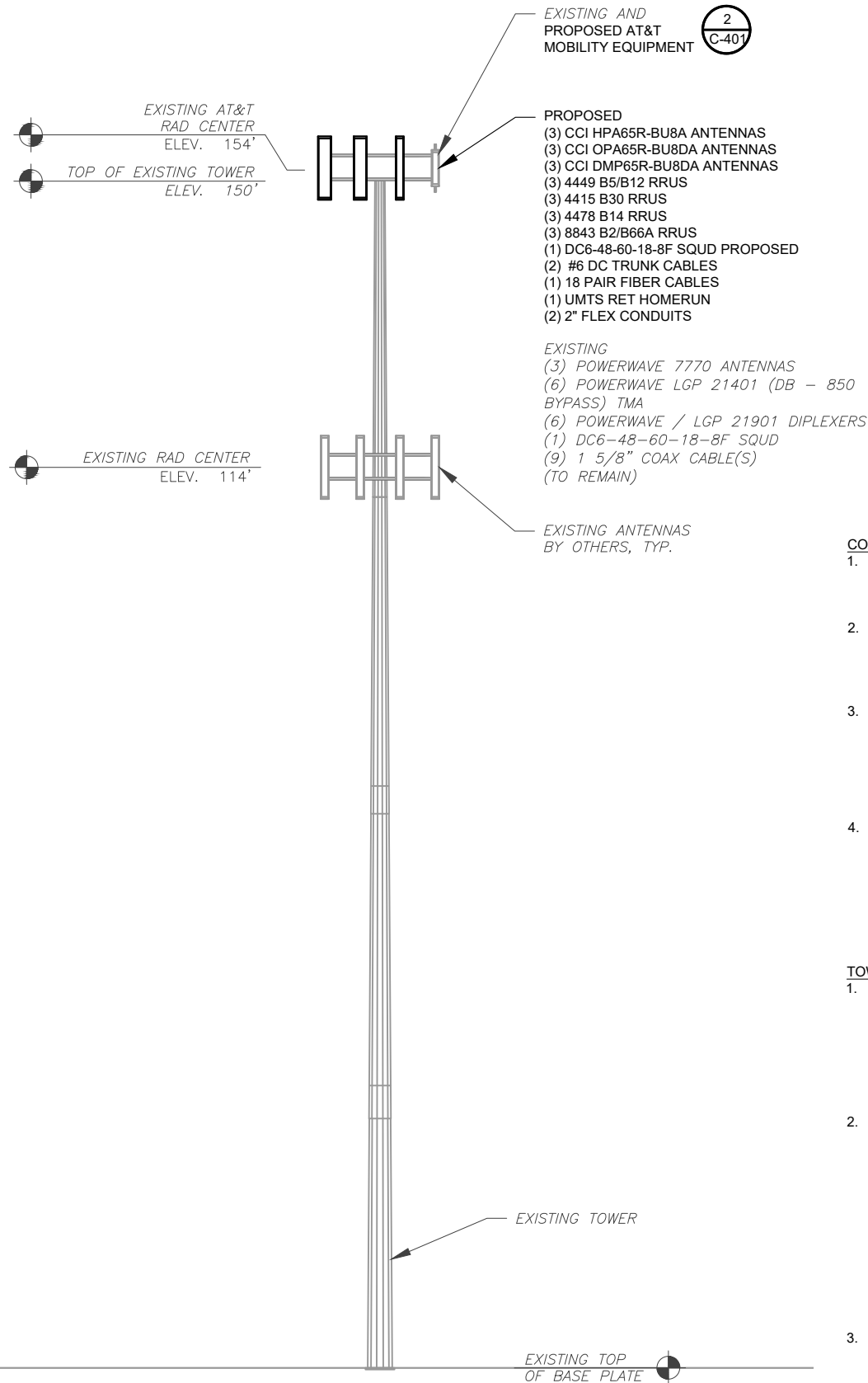
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EXISTING CONFIGURATION IS BASED ON RFDS.
CONTRACTOR TO VERIFY EXISTING CONDITIONS.



1 EXISTING TOWER ELEVATION
SCALE: N.T.S.

PER MOUNT ANALYSIS COMPLETED BY INFINIGY,
DATED JULY 15, 2020, THE EXISTING MOUNT CAN
ADEQUATELY SUPPORT THE PROPOSED LOADING



2 PROPOSED TOWER ELEVATION
SCALE: N.T.S.

- PROPOSED**
- (3) CCI HPA65R-BU8A ANTENNAS
 - (3) CCI OPA65R-BU8DA ANTENNAS
 - (3) CCI DMP65R-BU8DA ANTENNAS
 - (3) 4449 B5/B12 RRUS
 - (3) 4415 B30 RRUS
 - (3) 4478 B14 RRUS
 - (3) 8843 B2/B66A RRUS
 - (1) DC6-48-60-18-8F SQUAD PROPOSED
 - (2) #6 DC TRUNK CABLES
 - (1) 18 PAIR FIBER CABLES
 - (1) UMTS RET HOMERUN
 - (2) 2" FLEX CONDUITS

- EXISTING**
- (3) POWERWAVE 7770 ANTENNAS
 - (6) POWERWAVE LGP 21401 (DB - 850 BYPASS) TMA
 - (6) POWERWAVE / LGP 21901 DIPLEXERS
 - (1) DC6-48-60-18-8F SQUAD
 - (9) 1 5/8" COAX CABLE(S)
 - (TO REMAIN)

COAXIAL CABLE NOTES:

1. CONTRACTOR SHALL CONFIRM COAX COLOR CODING PRIOR TO CONSTRUCTION. REFER TO "ANTENNA SYSTEM LABELING STANDARD" ND-00027 LATEST VERSION.
2. CONTRACTOR SHALL WEATHERPROOF ALL ANTENNA CONNECTORS WITH SELF AMALGAMATING TAPE. WEATHERPROOFING SHALL BE COMPLETED IN STRICT ACCORDANCE WITH AT&T STANDARDS.
3. CONTRACTOR SHALL GROUND ALL EQUIPMENT, INCLUDING ANTENNAS, RET MOTORS, TMA'S, COAX CABLES, AND RET CONTROL CABLES AS A COMPLETE SYSTEM. GROUNDING SHALL BE EXECUTED BY QUALIFIED WIREMEN IN COMPLIANCE WITH MANUFACTURER'S SPECIFICATION AND RECOMMENDATION.
4. CONTRACTOR TO VERIFY THAT EXISTING COAX HANGERS ARE STACKABLE SNAP IN HANGERS. IF EXISTING HANGERS ARE NOT STACKABLE SNAP IN HANGERS THE CONTRACTOR SHALL REPLACE EXISTING HANGERS WITH NEW SNAP IN HANGERS IF APPLICABLE.

TOWER NOTE:

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM WITH THE AMERICAN TOWER CONSTRUCTION MANAGER THAT THEY HAVE THE MOST RECENT VERSION OF THE STRUCTURAL ANALYSIS BEFORE COMMENCING WORK. EXISTING AND PROPOSED TOWER APPURTENANCES, MOUNTS, AND ANTENNAS ARE SHOWN BASED ON THE STRUCTURAL ANALYSIS.
2. ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. IF ADEQUATE SPACE EXISTS, ROUTE CABLES THROUGH ENTRY PORT HOLE, UP INSIDE OF MONOPOLE, AND THROUGH EXIT PORT HOLE. IF ROUTING OUTSIDE THE MONOPOLE, ATTACH CABLES USING STAND-OFF ADAPTERS MOUNTED TO TOWER USING STAINLESS STEEL BANDING. ADEQUATELY SECURE CABLES USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER.
3. TOWER ELEVATIONS ARE MEASURED FROM TOP OF BASE PLATE TO MATCH STRUCTURAL ANALYSIS. ELEVATIONS DO NOT REFLECT TRUE ABOVE GROUND LEVEL (A.G.L.)

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| | | | |

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302498
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PLAINFIELD CT 6
AT&T MOBILITY SITE NAME:
PLAINFIELD-SPAULDING RD
SITE ADDRESS:
45 SPAULDING ROAD
PLAINFIELD, CT 06374-1824



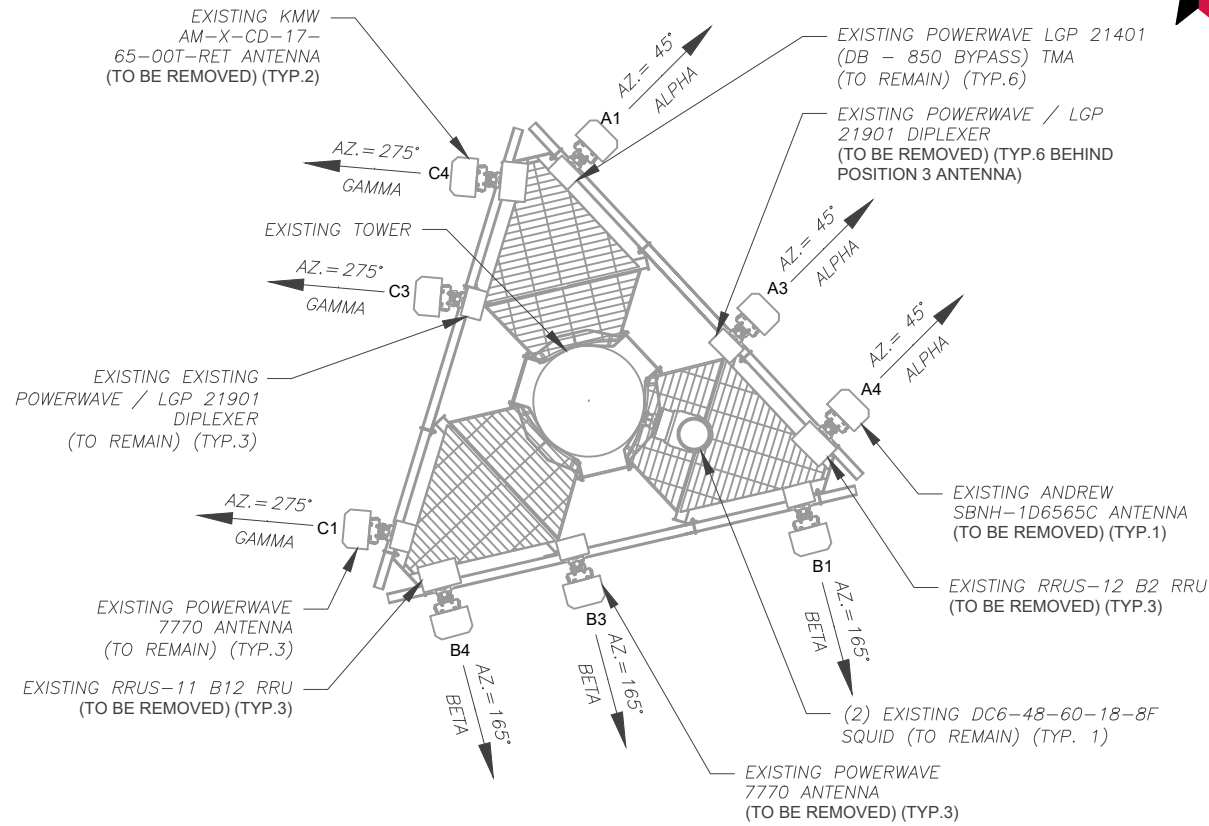
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|--------------|-------------------------|
| DATE DRAWN: | 07/02/20 |
| ATC JOB NO: | 13211930_G3 |
| CUSTOMER ID: | PLAINFIELD-SPAULDING RD |
| CUSTOMER #: | 10035013 |

TOWER ELEVATION

| | |
|-------------------------------|-----------------------|
| SHEET NUMBER: C-201 | REVISION: 0 |
|-------------------------------|-----------------------|

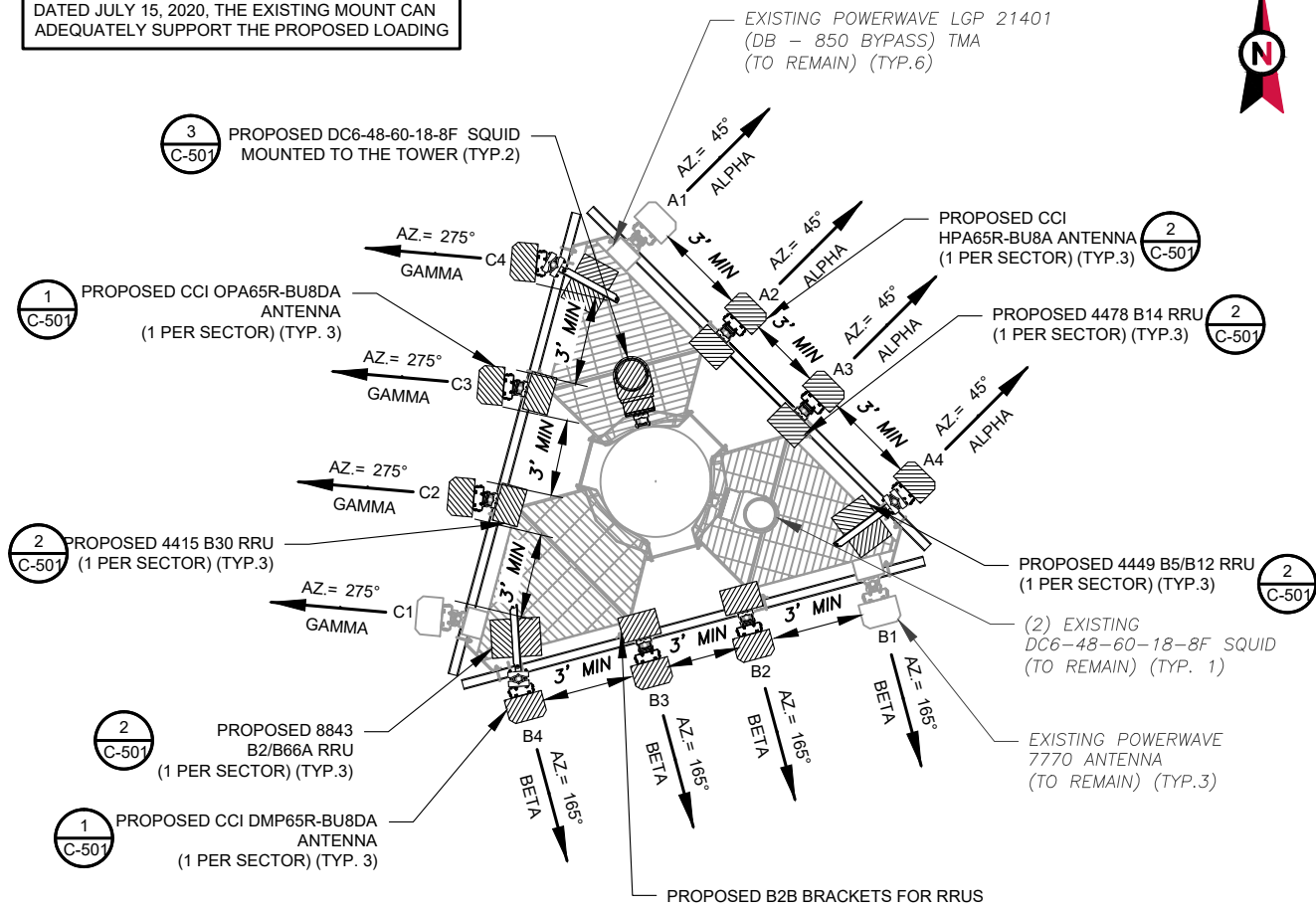
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EXISTING CONFIGURATIONS ARE BASED ON RFDS. CONTRACTOR TO VERIFY EXISTING CONDITIONS.



1 CURRENT ANTENNA PLAN
SCALE: N.T.S.

PER MOUNT ANALYSIS COMPLETED BY INFINIGY, DATED JULY 15, 2020, THE EXISTING MOUNT CAN ADEQUATELY SUPPORT THE PROPOSED LOADING



2 FINAL ANTENNA PLAN
SCALE: N.T.S.

PROPOSED RRUs MUST BE INSTALLED A MINIMUM OF 8" AWAY FROM ALL ANTENNAS

| EXISTING ANTENNA SCHEDULE | | | | | | | | |
|---------------------------|------|------|-----------------|---------------------------|----------------------|--------|----------------------------------------------------|--------|
| LOCATION | | | ANTENNA SUMMARY | | | | | |
| SECTOR | RAD | AZ | POS | ANTENNA | BAND | STATUS | ADDITIONAL TOWER MOUNTED EQUIPMENT | STATUS |
| ALPHA | 154' | 45° | A1 | POWERWAVE 7770 | UMTS 850 / UMTS 1900 | RMN | (2) POWERWAVE / LGP 21901, (2) POWERWAVE LGP 21401 | RMN |
| | | | A2 | - | - | - | - | - |
| | | | A3 | POWERWAVE 7770 | GSM 850 | RMV | (2) POWERWAVE / LGP 21901 | RMV |
| | | | A4 | ANDREW SBNH-1D6565C | LTE 700/LTE 1900 | RMV | RRUS-12 B2, RRUS-11 B12 | RMV |
| BETA | 154' | 165° | B1 | POWERWAVE 7770 | UMTS 850 / UMTS 1900 | RMN | (2) POWERWAVE / LGP 21901, (2) POWERWAVE LGP 21401 | RMN |
| | | | B2 | - | - | - | - | |
| | | | B3 | POWERWAVE 7770 | GSM 850 | RMV | (2) POWERWAVE / LGP 21901 | RMV |
| | | | B4 | KMW AM-X-CD-17-65-00T-RET | LTE 700/LTE 1900 | RMV | RRUS-12 B2, RRUS-11 B12 | RMV |
| GAMMA | 154' | 275° | C1 | POWERWAVE 7770 | UMTS 850 / UMTS 1900 | RMN | (2) POWERWAVE / LGP 21901, (2) POWERWAVE LGP 21401 | RMN |
| | | | C2 | - | - | - | - | |
| | | | C3 | POWERWAVE 7770 | GSM 850 | RMV | (2) POWERWAVE / LGP 21901 | RMV |
| | | | C4 | KMW AM-X-CD-17-65-00T-RET | LTE 700/LTE 1900 | RMV | RRUS-12 B2, RRUS-11 B12 | RMV |

NOTES

- CONFIRM WITH AT&T MOBILITY REP FOR APPLICABLE UPDATES/REVISIONS AND MOST RECENT RFDS FOR NSN CONFIGURATION (CONFIG). GC TO CAP ALL UNUSED PORTS.
- CONFIRM SPACING OF PROPOSED EQUIP DOES NOT CAUSE TOWER CONFLICTS NOR IMPEDE TOWER CLIMBING PEGS.
- THE ANTENNA ORIENTATION PLAN IS A SCHEMATIC. ATC DID NOT CONFIRM EXISTING SITE CONDITIONS INCLUDING, BUT NOT LIMITED TO, ANTENNA AZIMUTHS, MOUNT CONFIGURATIONS AND TOWER ORIENTATION. SCALES SHOWN ARE FOR REFERENCE ONLY AND EXISTING DIMENSIONS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO INSTALLATION AND NOTIFY ATC OF ANY DISCREPANCIES. CONTRACTOR TO ENSURE PROPER SEPARATION IN ACCORDANCE WITH AT&T'S FIRSTNET REQUIREMENTS (SEE SHEET R-602)
-

| FINAL ANTENNA SCHEDULE | | | | | | | | |
|------------------------|------|------|-----------------|------------------|----------------------------------|--------|----------------------------------------------------|--------|
| LOCATION | | | ANTENNA SUMMARY | | | | | |
| SECTOR | RAD | AZ | POS | ANTENNA | BAND | STATUS | ADDITIONAL TOWER MOUNTED EQUIPMENT | STATUS |
| ALPHA | 154' | 45° | A1 | POWERWAVE 7770 | UMTS 850 | RMN | (2) POWERWAVE / LGP 21901, (2) POWERWAVE LGP 21401 | RMN |
| | | | A2 | CCI HPA65R-BU8A | LTE WCS | ADD | 4415 B30 | ADD |
| | | | A3 | CCI OPA65R-BU8DA | LTE 700/LTE AWS | ADD | 4478 B14 | ADD |
| | | | A4 | CCI DMP65R-BU8DA | LTE 700/LTE 850/LTE 1900/5G 850- | ADD | 4449 B5/B12, 8843 B2/B66A | ADD |
| BETA | 154' | 165° | B1 | POWERWAVE 7770 | UMTS 850 | RMN | (2) POWERWAVE / LGP 21901, (2) POWERWAVE LGP 21401 | RMN |
| | | | B2 | CCI HPA65R-BU8A | LTE WCS | ADD | 4415 B30 | ADD |
| | | | B3 | CCI OPA65R-BU8DA | LTE 700/LTE AWS | ADD | 4478 B14 | ADD |
| | | | B4 | CCI DMP65R-BU8DA | LTE 700/LTE 850/LTE 1900/5G 850- | ADD | 4449 B5/B12, 8843 B2/B66A | ADD |
| GAMMA | 154' | 275° | C1 | POWERWAVE 7770 | UMTS 850 | RMN | (2) POWERWAVE / LGP 21901, (2) POWERWAVE LGP 21401 | RMN |
| | | | C2 | CCI HPA65R-BU8A | LTE WCS | ADD | 4415 B30 | ADD |
| | | | C3 | CCI OPA65R-BU8DA | LTE 700/LTE AWS | ADD | 4478 B14 | ADD |
| | | | C4 | CCI DMP65R-BU8DA | LTE 700/LTE 850/LTE 1900/5G 850- | ADD | 4449 B5/B12, 8843 B2/B66A | ADD |

| EXISTING FIBER DISTRIBUTION/SQUID | | | EXISTING CABLING SUMMARY | | | |
|-----------------------------------|--------|------------|--------------------------|-------|--------|--|
| MODEL NUMBER | STATUS | COAX | DC | FIBER | STATUS | |
| DC6-48-60-18-8F | RMN | (9) 1 5/8" | - | - | RMN | |
| - | - | (3) 1 5/8" | - | - | RMV | |

STATUS ABBREVIATIONS
 RMV: TO BE REMOVED
 RMN: TO REMAIN
 REL: TO BE RELOCATED
 ADD: TO BE ADDED

CABLE LENGTHS FOR JUMPERS
 JUNCTION BOX TO RRU: 15'
 RRU TO ANTENNA: 10'

3 EQUIPMENT SCHEDULES

| FINAL FIBER DISTRIBUTION/SQUID | | | FINAL CABLING SUMMARY | | | |
|--------------------------------|--------|------------|-----------------------|-------------|--------|--|
| MODEL NUMBER | STATUS | COAX | DC | FIBER | STATUS | |
| DC6-48-60-18-8F | RMN | (9) 1 5/8" | - | - | RMN | |
| DC6-48-60-18-8F | ADD | - | (2) #6 | (1) 18 PAIR | ADD | |

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|------|--------------|----|----------|
| A | PRELIM | IB | 07/02/20 |
| 0 | CONSTRUCTION | DB | 07/22/20 |
| | | | |
| | | | |

ATC SITE NUMBER:
302498
 ATC SITE NAME:
PLAINFIELD CT 6
 AT&T MOBILITY SITE NAME:
PLAINFIELD-SPAULDING RD
 SITE ADDRESS:
 45 SPAULDING ROAD
 PLAINFIELD, CT 06374-1824

SEAL:

DATE DRAWN: 07/02/20
 ATC JOB NO: 13211930_G3
 CUSTOMER ID: PLAINFIELD-SPAULDING RD
 CUSTOMER #: 10035013

RF SCHEDULE AND ANTENNA INSTALLATION

SHEET NUMBER: **C-401** REVISION: **0**

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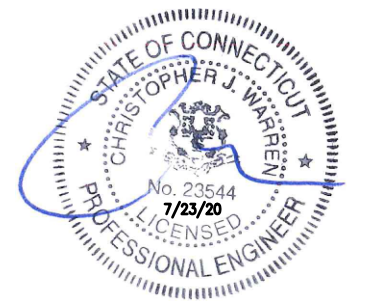
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 SITE ADDRESS:
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 PLAINFIELD, CT 06374-1824

SEAL:

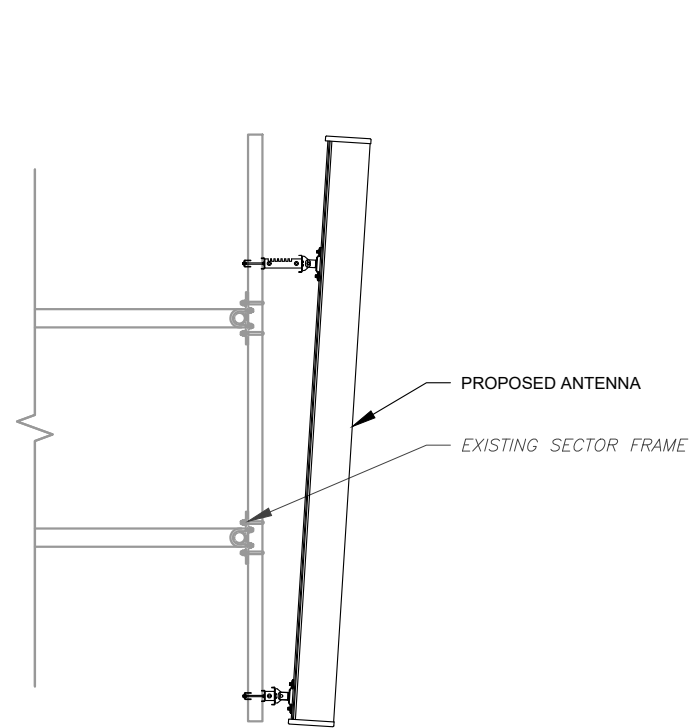


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|--------------|-------------------------|
| DATE DRAWN: | 07/02/20 |
| ATC JOB NO: | 13211930_G3 |
| CUSTOMER ID: | PLAINFIELD-SPAULDING RD |
| CUSTOMER #: | 10035013 |

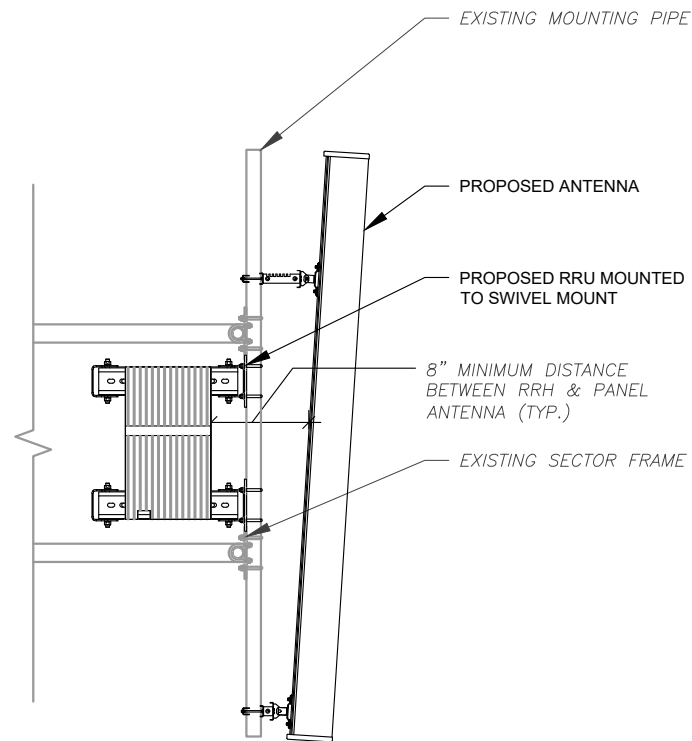
**CONSTRUCTION
 DETAILS**

SHEET NUMBER:
C-501

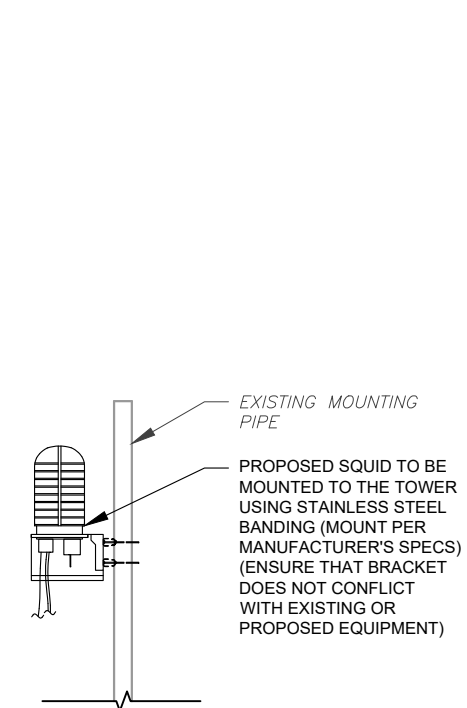
REVISION:
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1 **ANTENNA DETAIL**
 SCALE: N.T.S.

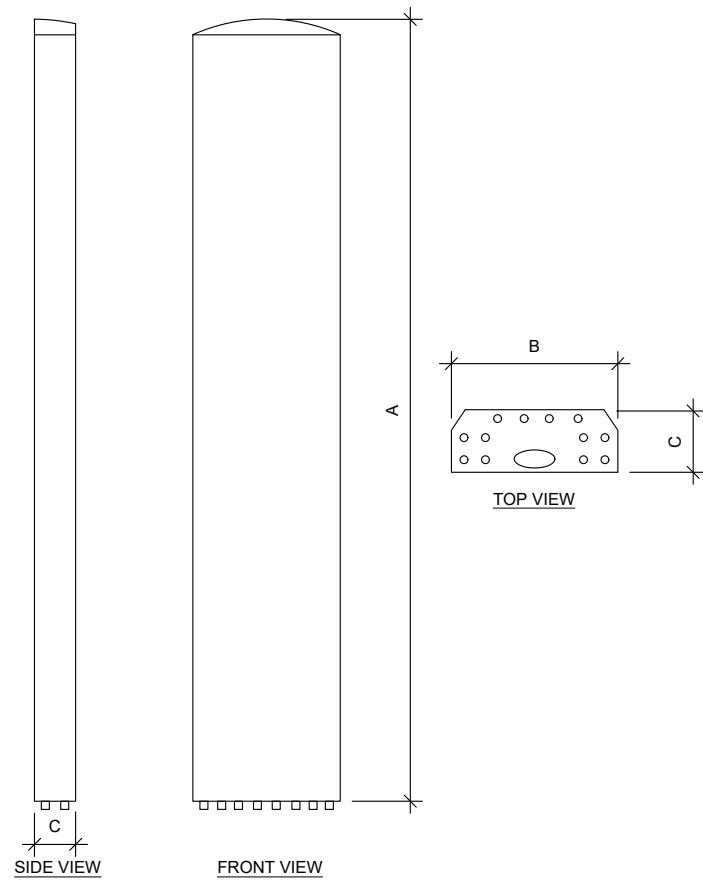


2 **RRU DETAIL**
 SCALE: N.T.S.

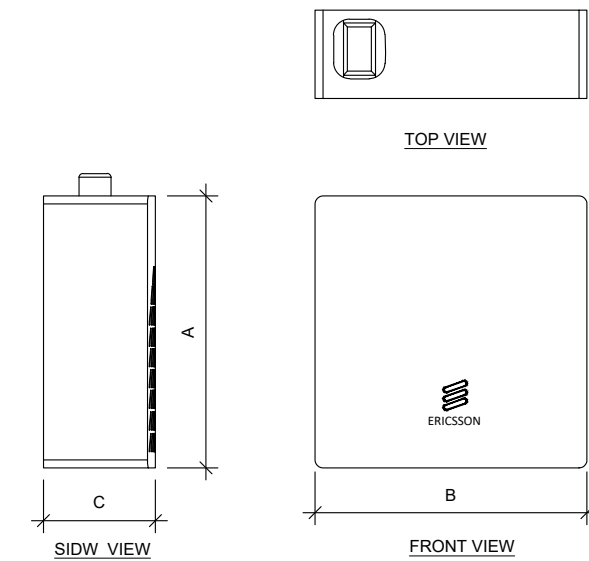


3 **PROPOSED SQUID MOUNTING**
 SCALE: N.T.S.

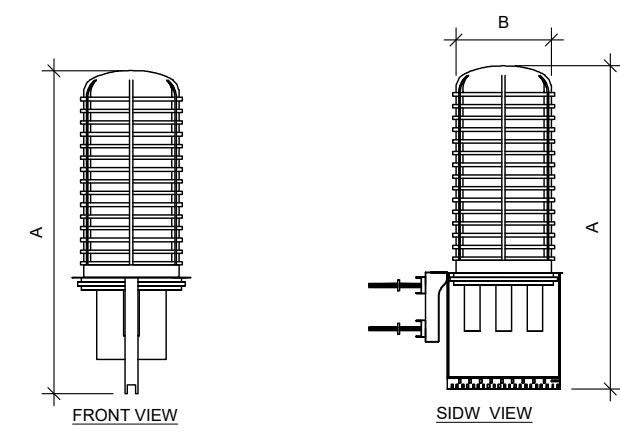
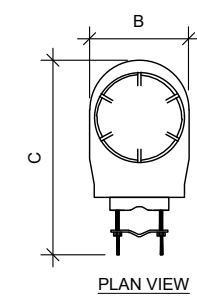
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| ANTENNA SPECIFICATIONS | | | | |
|------------------------|-----|-------|------|--------------|
| ANTENNA MODEL | A | B | C | WEIGHT (LBS) |
| HPA65R-BU8A | 96" | 11.7" | 7.7" | 54 |
| OPA65R-BU8DA | 96" | 21" | 7.8" | 76.5 |
| HPA65R-BU8A | 96" | 20.7" | 7.7" | 95.7 |



| RRU SPECIFICATIONS | | | | |
|--------------------|-------|-------|-------|--------------|
| RRU MODEL | A | B | C | WEIGHT (LBS) |
| 4415 B30 | 16.5" | 13.4" | 5.9" | 46.0 |
| 4478 B14 | 18.1" | 13.4" | 8.3" | 59.4 |
| 4449 B5, B12 | 17.9" | 13.2" | 9.4" | 71.0 |
| 8843 B2, B66A | 14.9" | 13.2" | 10.9" | 72.0 |



| RAYCAP SPECIFICATIONS | | | | |
|-----------------------|-------|------|------|--------------|
| RAYCAP MODEL | A | B | C | WEIGHT (LBS) |
| DC6-48-60-18-8F | 23.5" | 9.7" | 9.7" | 20.0 |

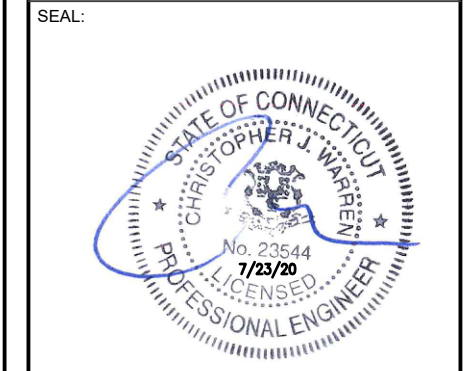
1 EQUIPMENT SPECIFICATIONS
SCALE: N.T.S.

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 45 SPAULDING ROAD
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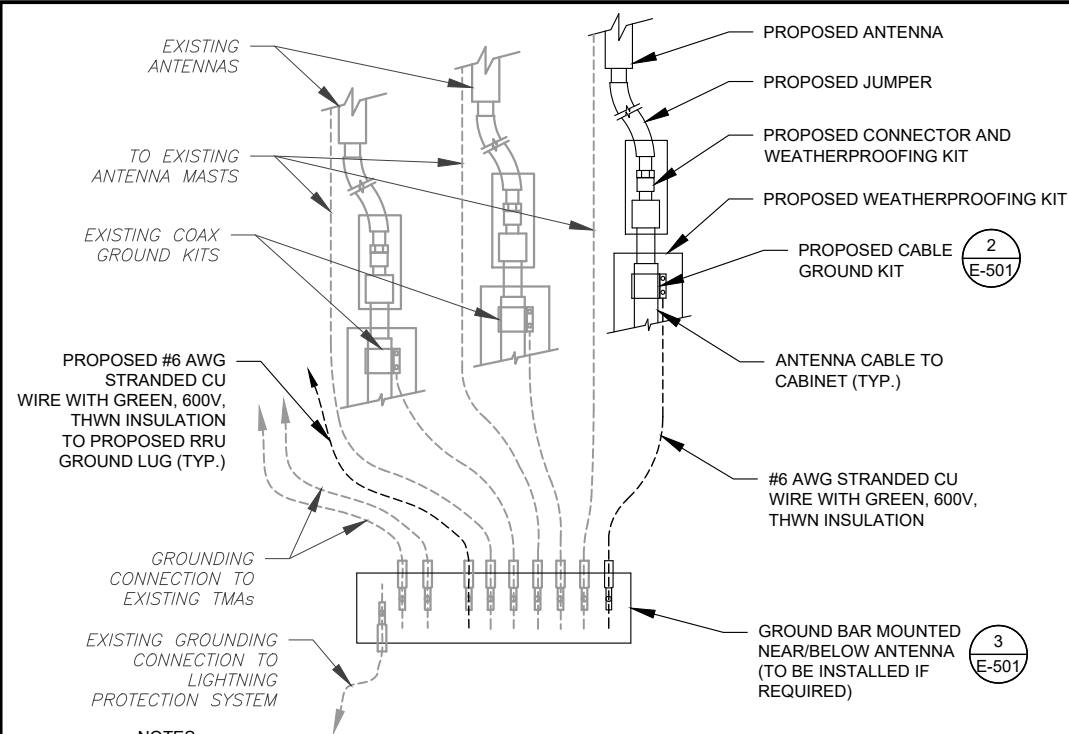


| | |
|--------------|-------------------------|
| DATE DRAWN: | 07/02/20 |
| ATC JOB NO: | 13211930_G3 |
| CUSTOMER ID: | PLAINFIELD-SPAULDING RD |
| CUSTOMER #: | 10035013 |

EQUIPMENT SPECIFICATIONS

| | |
|---------------|-----------|
| SHEET NUMBER: | REVISION: |
| C-502 | 0 |

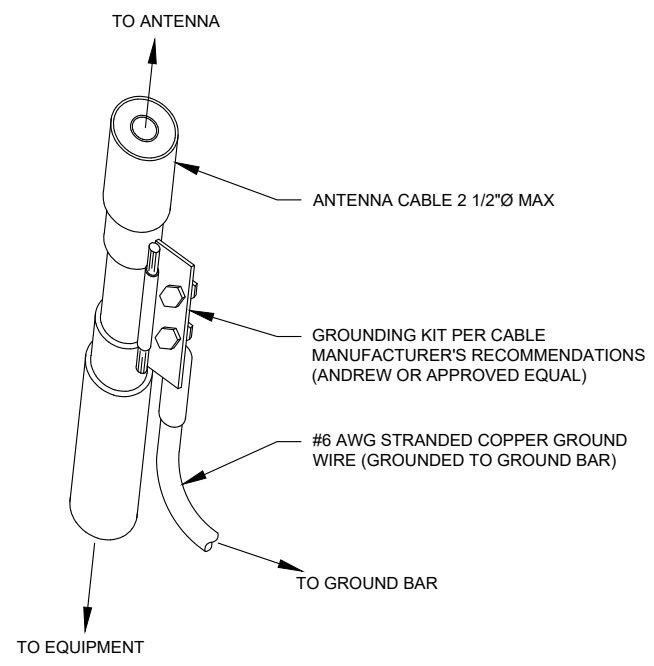
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NOTES:

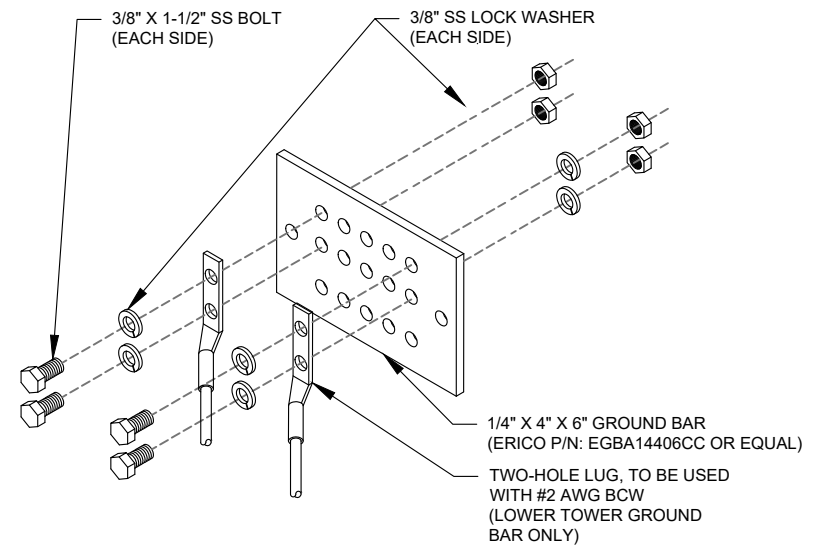
1. THIS DETAIL IS INTENDED TO SHOW THE GENERAL GROUNDING REQUIREMENTS. SLIGHT ADJUSTMENTS MAY BE REQUIRED BASED ON EXISTING SITE CONDITIONS. THE CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS AS NEEDED AND INFORM THE CONSTRUCTION MANAGER OF ANY CONFLICTS.
2. SITE GROUNDING SHALL COMPLY WITH AT&T MOBILITY GROUNDING STANDARDS, LATEST EDITION, AND COMPLY WITH AT&T MOBILITY GROUNDING CHECKLIST, LATEST VERSION. WHEN NATIONAL AND LOCAL GROUNDING CODES ARE MORE STRINGENT THEY SHALL GOVERN.

1 TYPICAL ANTENNA GROUNDING DIAGRAM
SCALE: N.T.S.



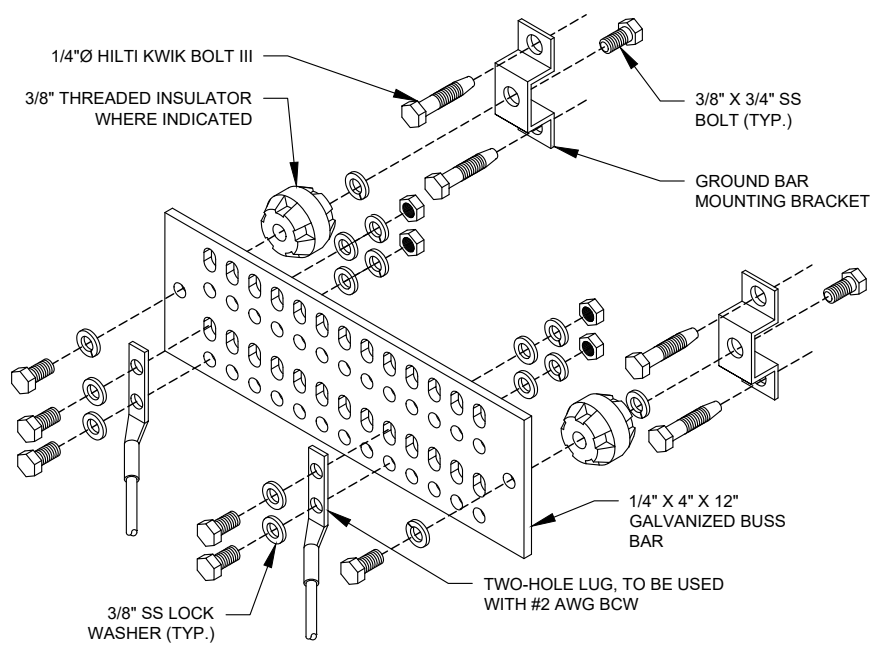
- GROUND KIT NOTES:**
1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
 2. CONTRACTOR SHALL PROVIDE WEATHERPROOFING KIT (ANDREW PART NUMBER 221213) AND INSTALL/TAPE PER MANUFACTURER'S SPECIFICATIONS.

2 CABLE GROUND KIT CONNECTION DETAIL
SCALE: N.T.S.



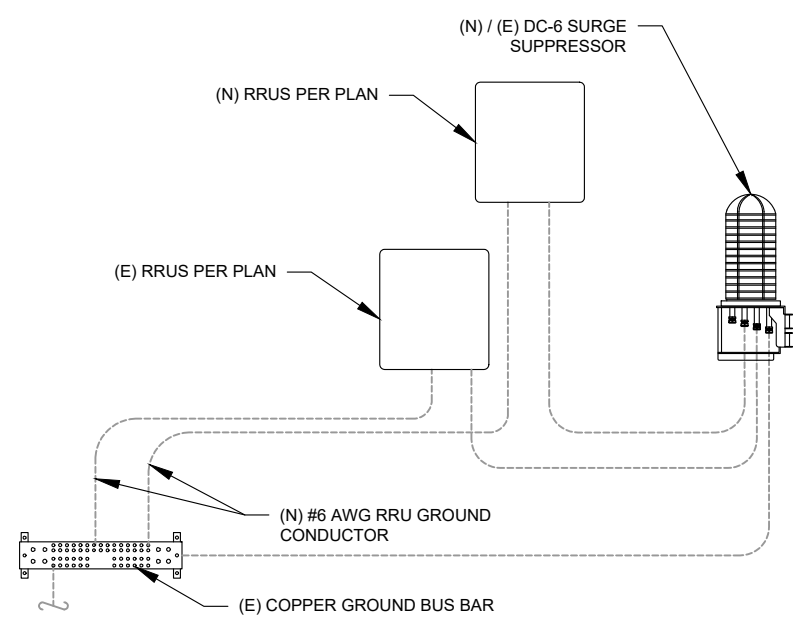
- GROUND BAR NOTES:**
1. GROUND BAR KITS COME WITH ALL HARDWARE, NUTS, BOLTS, WASHERS, ETC. EXCEPT THE STRUCTURAL MOUNTING MEMBER(S).
 2. GROUND BAR TO BE BONDED DIRECTLY TO TOWER.

3 TOWER GROUND BAR DETAIL
SCALE: N.T.S.

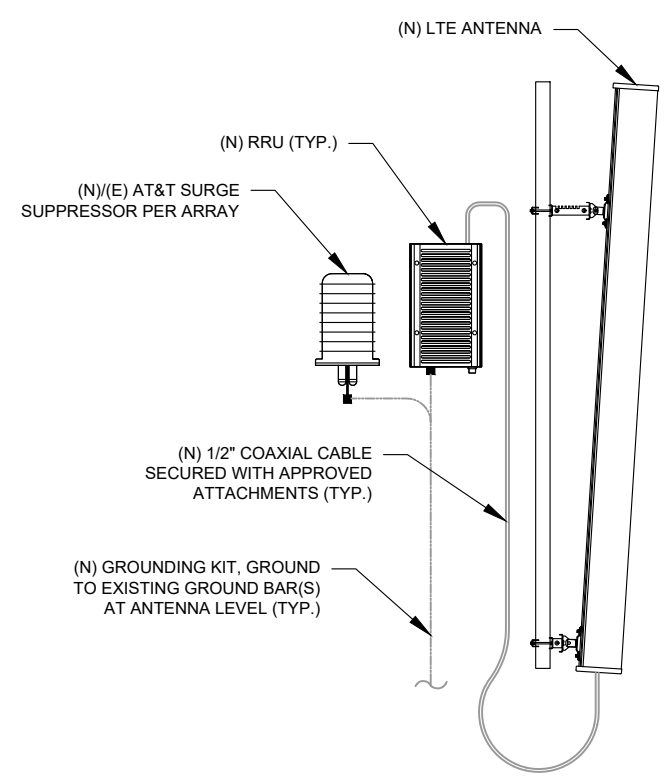


- GROUND BAR NOTES**
1. GROUND KITS COME WITH ALL HARDWARE, NUTS, BOLTS, WASHERS, ETC. EXCEPT THE STRUCTURAL MOUNTING MEMBER(S).
 2. GROUND BAR SHALL BE BOLTED TO STRUCTURAL MEMBER OR ANCHORED TO CONCRETE SLAB W/ HILTI KWIK BOLT III.

4 MAIN GROUND BAR DETAIL
SCALE: N.T.S.



5 RRU GROUNDING
SCALE: N.T.S.



6 ANTENNA/RRU GROUNDING
SCALE: N.T.S.

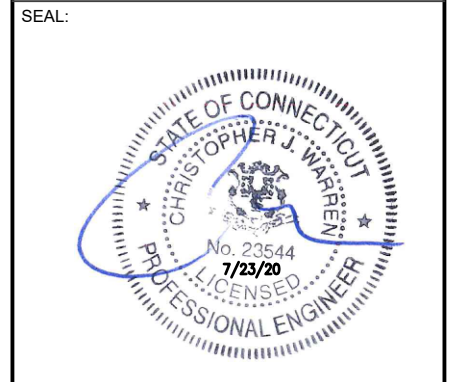
| REV. | DESCRIPTION | BY | DATE |
|------|--------------|----|----------|
| A | PRELIM | IB | 07/02/20 |
| 0 | CONSTRUCTION | DB | 07/22/20 |
| | | | |
| | | | |
| | | | |

ATC SITE NUMBER:
302498

ATC SITE NAME:
PLAINFIELD CT 6

AT&T MOBILITY SITE NAME:
PLAINFIELD-SPAULDING RD

SITE ADDRESS:
45 SPAULDING ROAD
PLAINFIELD, CT 06374-1824



| | |
|--------------|-------------------------|
| DATE DRAWN: | 07/02/20 |
| ATC JOB NO: | 13211930_G3 |
| CUSTOMER ID: | PLAINFIELD-SPAULDING RD |
| CUSTOMER #: | 10035013 |

GROUNDING DETAILS

| | |
|---------------|-----------|
| SHEET NUMBER: | REVISION: |
| E-501 | 0 |

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Mount Modification Report

July 15, 2020

| | |
|------------------------|--------------------------------------------------------------------------------------------------|
| AT&T Site Name | MRCTB046850 |
| AT&T Site Number | CTL02051 |
| ATC Site Name | Plainfield CT 6, CT |
| ATC Site Number | 302498 |
| ATC Engineering Number | 13211930_C9_06 |
| Infinigy Job Number | 1009-Z0003-B |
| Client | American Tower Corporation |
| Carrier | AT&T Mobility |
| Site Location | Spaulding Road, Plainfield, CT 06374 Windham County 41.674806 N NAD83 71.879100 W NAD83 |
| Mount Centerline EL. | 154 ft |
| Mount Classification | Platform w/ Handrails |
| Structural Usage Ratio | 75.1% |
| Overall Result | Pass |
| Note | - |

Upon reviewing the results of this analysis, it is our opinion that the structure 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.



7/15/2020

Type te:

Brad Davenport
Engineering Manager | **INFINIGY**
1517 Old Apex Road, Cary, NC 27513
(0) (518) 690-0792
BDavenport@infinigy.com | www.infinigy.com

Mount Analysis Report
July 15, 2020

Introduction

Infinigy Engineering has been requested to perform a mount analysis of the existing AT&T Platform. All 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 17.0.2 analysis software.

Supporting Documentation

| | |
|----------------------------|----------------------------------------------------------------------------------|
| Mount Mapping | MasTec Job No. 202199, dated June 22, 2020 |
| Structural Analysis Report | American Tower Corporation, Engineering No. OAA681936_C3_01, dated July 27, 2016 |
| Collocation Application | ATC Asset No. 302498 |

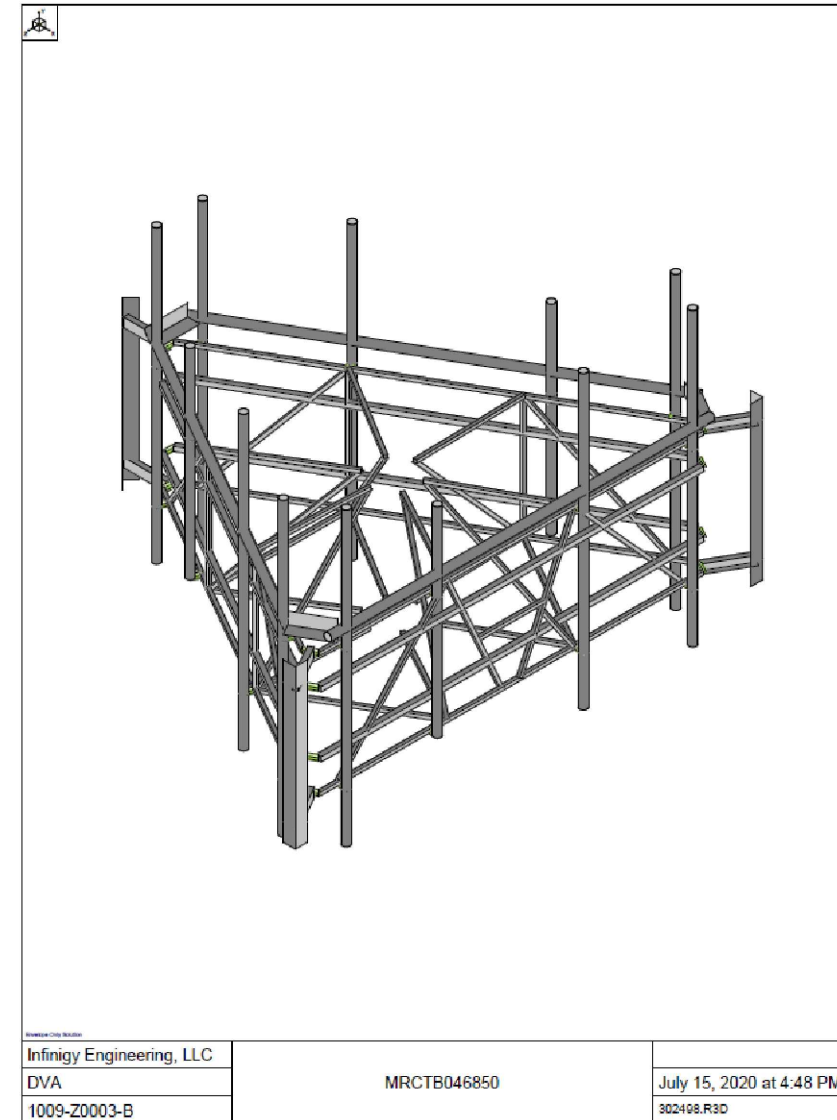
Analysis Code Requirements

| | |
|-----------------------|------------------------------------------------------|
| Wind Speed | 124 mph (3-Second Gust) |
| Wind Speed w/ ice | 50 mph (3-Second Gust) w/ 1.0" radial ice concurrent |
| TIA Revision | ANSI/TIA-222-H |
| Structure Class | II |
| Exposure Category | B |
| Topographic Category | I |
| Seismic Design Values | $S_s = 0.187$ g, $S_1 = 0.054$ g |
| Site Class | D - Stiff Soil |
| HMSL | 556 ft |

Conclusion

Upon reviewing the results of this analysis, it is our opinion that the structure meets the specified TIA code requirements. The mounts and connections are therefore deemed adequate to support the final loading configuration 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:

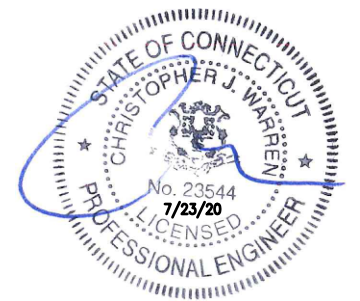


| | | |
|---------------------------|-------------|--------------------------|
| Infinigy Engineering, LLC | MRCTB046850 | July 15, 2020 at 4:48 PM |
| DVA | | |
| 1009-Z0003-B | | 302498.R3D |

| REV. | DESCRIPTION | BY | DATE |
|------|--------------|----|----------|
| A | PRELIM | IB | 07/02/20 |
| 0 | CONSTRUCTION | DB | 07/22/20 |
| | | | |
| | | | |
| | | | |

ATC SITE NUMBER:
302498
ATC SITE NAME:
PLAINFIELD CT 6
AT&T MOBILITY SITE NAME:
PLAINFIELD-SPAULDING RD
SITE ADDRESS:
45 SPAULDING ROAD
PLAINFIELD, CT 06374-1824

SEAL:



| | |
|--------------|-------------------------|
| DATE DRAWN: | 07/02/20 |
| ATC JOB NO: | 13211930_G3 |
| CUSTOMER ID: | PLAINFIELD-SPAULDING RD |
| CUSTOMER #: | 10035013 |

SUPPLEMENTAL

| | |
|---------------|-----------|
| SHEET NUMBER: | REVISION: |
| R-601 | 0 |

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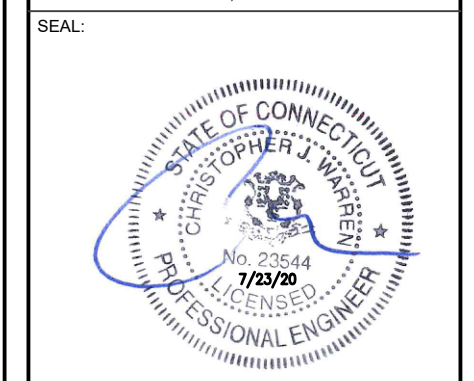


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| REV. | DESCRIPTION | BY | DATE |
|------|--------------|----|----------|
| A | PRELIM | IB | 07/02/20 |
| B | CONSTRUCTION | DB | 07/22/20 |
| | | | |
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ATC SITE NUMBER:
302498
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PLAINFIELD CT 6
 AT&T MOBILITY SITE NAME:
PLAINFIELD-SPAULDING RD
 SITE ADDRESS:
 45 SPAULDING ROAD
 PLAINFIELD, CT 06374-1824



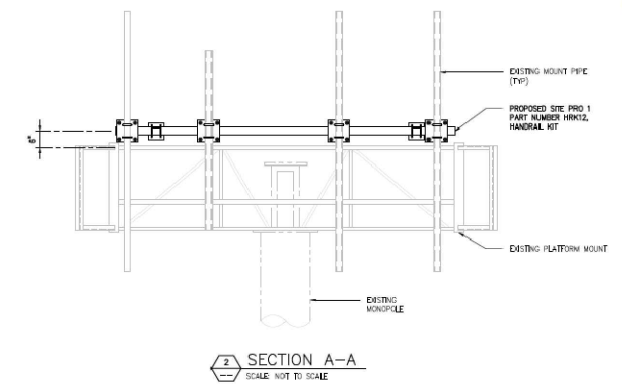
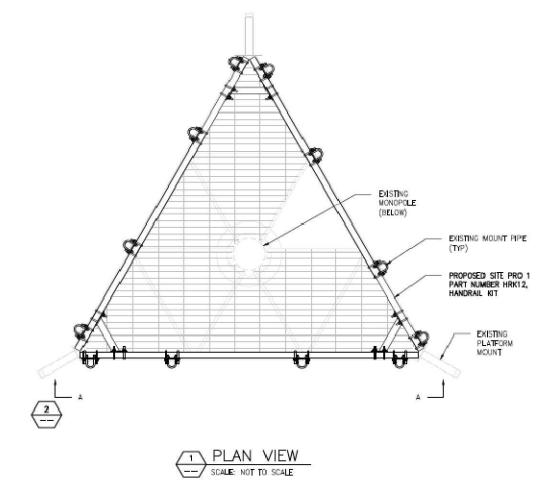
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|--------------|-------------------------|
| DATE DRAWN: | 07/02/20 |
| ATC JOB NO: | 13211930_G3 |
| CUSTOMER ID: | PLAINFIELD-SPAULDING RD |
| CUSTOMER #: | 10035013 |

SUPPLEMENTAL

SHEET NUMBER:
R-602

REVISION:
0

NOTES:
 1. VARIOUS EXISTING CONDITIONS AND PROPOSED MODIFICATIONS NOT SHOWN FOR CLARITY.
 2. ALL DESIGNATED PARTS ARE TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
 3. CONTRACTOR TO FIELD VERIFY REQUIRED LENGTHS OF ALL PROPOSED REINFORCEMENT KIT PIPES AND TRIM & DRILL ON SITE AS NECESSARY.



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AMERICAN TOWER

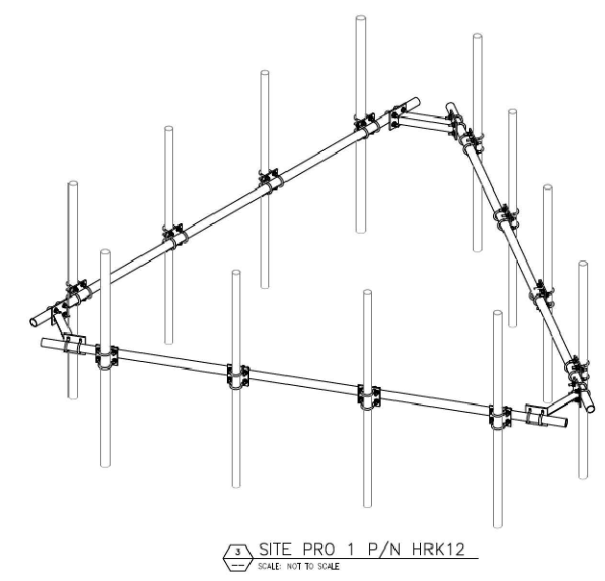
24705

PROJECT: PLAINFIELD CT 6
 SHEET: S-3
 DATE: 07/02/20

at&t

MOUNT MODIFICATION DETAILS

NOTES:
 1. VARIOUS EXISTING CONDITIONS AND PROPOSED MODIFICATIONS NOT SHOWN FOR CLARITY.
 2. ALL DESIGNATED PARTS ARE TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
 3. CONTRACTOR TO FIELD VERIFY REQUIRED LENGTHS OF ALL PROPOSED REINFORCEMENT KIT PIPES AND TRIM & DRILL ON SITE AS NECESSARY.



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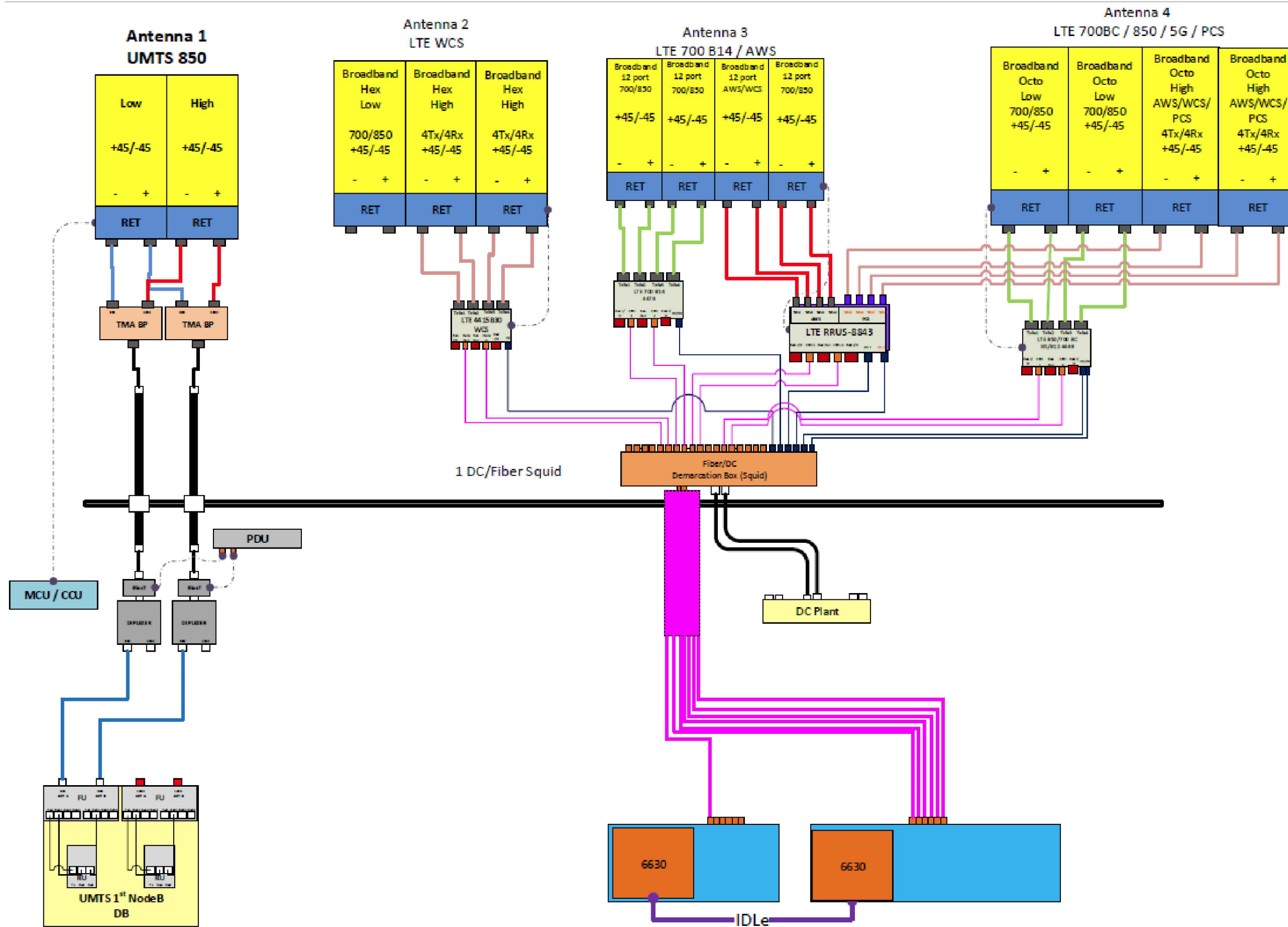
24705

PROJECT: PLAINFIELD CT 6
 SHEET: S-4
 DATE: 07/02/20

at&t

REQUIRED PARTS

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1 RFDS PLUMBING DIAGRAM

NOTE: THIS SHEET WAS CREATED BY OTHERS AND PROVIDED AT THE REQUEST OF THE CUSTOMER WITHOUT EDIT. GENERAL CONTRACTOR IS TO CHECK WITH THE AT&T MOBILITY CM TO ENSURE THIS IS THE MOST RECENT VERSION OF THE RFDS.

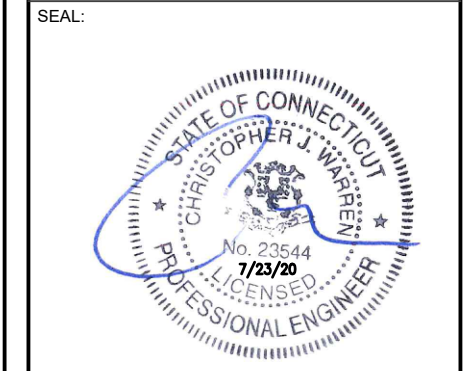


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| △ | PRELIM | IB | 07/02/20 |
| △ | CONSTRUCTION | DB | 07/22/20 |
| △ | | | |
| △ | | | |

ATC SITE NUMBER:
302498
 ATC SITE NAME:
PLAINFIELD CT 6
 AT&T MOBILITY SITE NAME:
PLAINFIELD-SPAULDING RD
 SITE ADDRESS:
 45 SPAULDING ROAD
 PLAINFIELD, CT 06374-1824



| | |
|--------------|-------------------------|
| DATE DRAWN: | 07/02/20 |
| ATC JOB NO: | 13211930_G3 |
| CUSTOMER ID: | PLAINFIELD-SPAULDING RD |
| CUSTOMER #: | 10035013 |

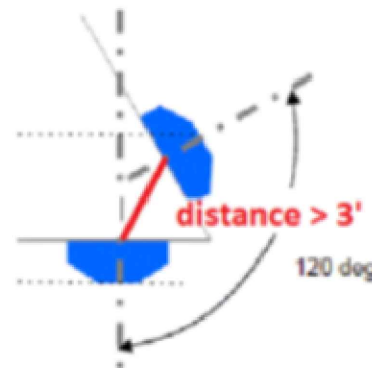
SUPPLEMENTAL

| | |
|-------------------------------|-----------------------|
| SHEET NUMBER: R-603 | REVISION: 0 |
|-------------------------------|-----------------------|

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RF REQUIREMENTS FOR 700 B14 FIRSTNET, 700 B12, 700D B29 ANTENNA SEPARATION

- Horizontal separation (side to side of antenna): $\geq 3'$
- Vertical separation (between the tips of the antennas): $> 3'$
- Inter-sector separation: $> 3'$ between the center of the antenna backplanes.



- Please note additional horizontal separation may be required if B14 antennas azimuth are different from others or antennas are severely angled with respect to the mount.
- Typical 3' horizontal separation can tolerate skew angle up to 6° .



NOTE: THIS SHEET CREATED BY OTHERS AND PROVIDED BY REQUEST OF CUSTOMER WITHOUT EDIT.

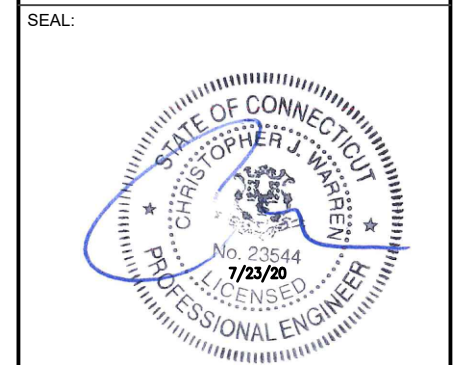


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| REV. | DESCRIPTION | BY | DATE |
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| A | PRELIM | IB | 07/02/20 |
| 0 | CONSTRUCTION | DB | 07/22/20 |
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| | | | |

ATC SITE NUMBER:
302498
 ATC SITE NAME:
PLAINFIELD CT 6
 AT&T MOBILITY SITE NAME:
PLAINFIELD-SPAULDING RD
 SITE ADDRESS:
 45 SPAULDING ROAD
 PLAINFIELD, CT 06374-1824



| | |
|--------------|-------------------------|
| DATE DRAWN: | 07/02/20 |
| ATC JOB NO: | 13211930_G3 |
| CUSTOMER ID: | PLAINFIELD-SPAULDING RD |
| CUSTOMER #: | 10035013 |

SUPPLEMENTAL

SHEET NUMBER:
R-604

REVISION:
0

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EXHIBIT 2

45 SPAULDING RD

Location 45 SPAULDING RD

Mblu 025/ 0036/ 027A/ /

Acct# 00325300

Owner SANCHEZ ROBERT DOMINEZ &
NICOLE (JT)

Assessment \$117,920

Appraisal \$168,450

PID 3562

Building Count 1

Current Value

| Appraisal | | | |
|----------------|--------------|----------|-----------|
| Valuation Year | Improvements | Land | Total |
| 2020 | \$128,360 | \$40,090 | \$168,450 |

| Assessment | | | |
|----------------|--------------|----------|-----------|
| Valuation Year | Improvements | Land | Total |
| 2020 | \$89,860 | \$28,060 | \$117,920 |

Owner of Record

Owner SANCHEZ ROBERT DOMINEZ & NICOLE (JT)
Co-Owner
Address 161 PICKETT RD
PLAINFIELD , CT 06374

Sale Price \$39,000
Certificate
Book & Page 0560/0654
Sale Date 11/16/2020
Instrument 00

Ownership History

| Ownership History | | | | | |
|------------------------------------------|------------|-------------|-------------|------------|------------|
| Owner | Sale Price | Certificate | Book & Page | Instrument | Sale Date |
| SANCHEZ ROBERT DOMINEZ & NICOLE (JT) | \$39,000 | | 0560/0654 | 00 | 11/16/2020 |
| ROYS SCOTT | \$10,000 | | 0548/0710 | 25 | 01/28/2020 |
| THEROUX BEATRICE L - C/O SPECTRASITE COM | \$0 | | 0253/0587 | | 09/01/1998 |
| CREDIE MARGARET M + FLORINDA L | \$0 | | 0161/0916 | | 03/04/1986 |

Building Information

Building 1 : Section 1

Year Built:

Living Area: 0

Replacement Cost: \$0

Building Percent Good:

Replacement Cost

Less Depreciation: \$0

Building Attributes

| Field | Description |
|------------------|--------------|
| Style: | Outbuildings |
| Model | |
| Grade: | |
| Stories: | |
| Occupancy: | |
| Exterior Wall 1: | |
| Exterior Wall 2: | |
| Roof Structure: | |
| Roof Cover: | |
| Interior Wall 1: | |
| Interior Wall 2: | |
| Interior Flr 1: | |
| Interior Flr 2: | |
| Heat Fuel: | |
| Heat Type: | |
| AC Type: | |
| Total Bedrooms: | |
| Full Baths: | |
| Half Baths: | |
| Extra Fixtures: | |
| Total Rooms: | |
| Bath Style: | |
| Kitchen Style: | |
| Fireplaces: | |
| Xtra Openings: | |
| Gas Fireplaces: | |
| Woodstove/Pellet | |
| Bsmt Gar: | |
| Num Park | |
| Fireplaces | |
| Color | |
| Basement: | |
| Fndtn Cndtn | |
| Basement | |

Building Photo



(<http://images.vgsi.com/photos/PlainfieldCTPhotos//default.jpg>)

Building Layout

Building Layout (ParcelSketch.ashx?pid=3562&bid=3562)

| Building Sub-Areas (sq ft) | Legend |
|--------------------------------|--------|
| No Data for Building Sub-Areas | |

Extra Features

| Extra Features | <u>Legend</u> |
|----------------------------|---------------|
| No Data for Extra Features | |

Land

Land Use

Use Code 5040
Description PUB UTIL
Zone RA60
Neighborhood 1000
Alt Land Appr No
Category

Land Line Valuation

Size (Acres) 2.79
Frontage
Depth
Assessed Value \$28,060
Appraised Value \$40,090

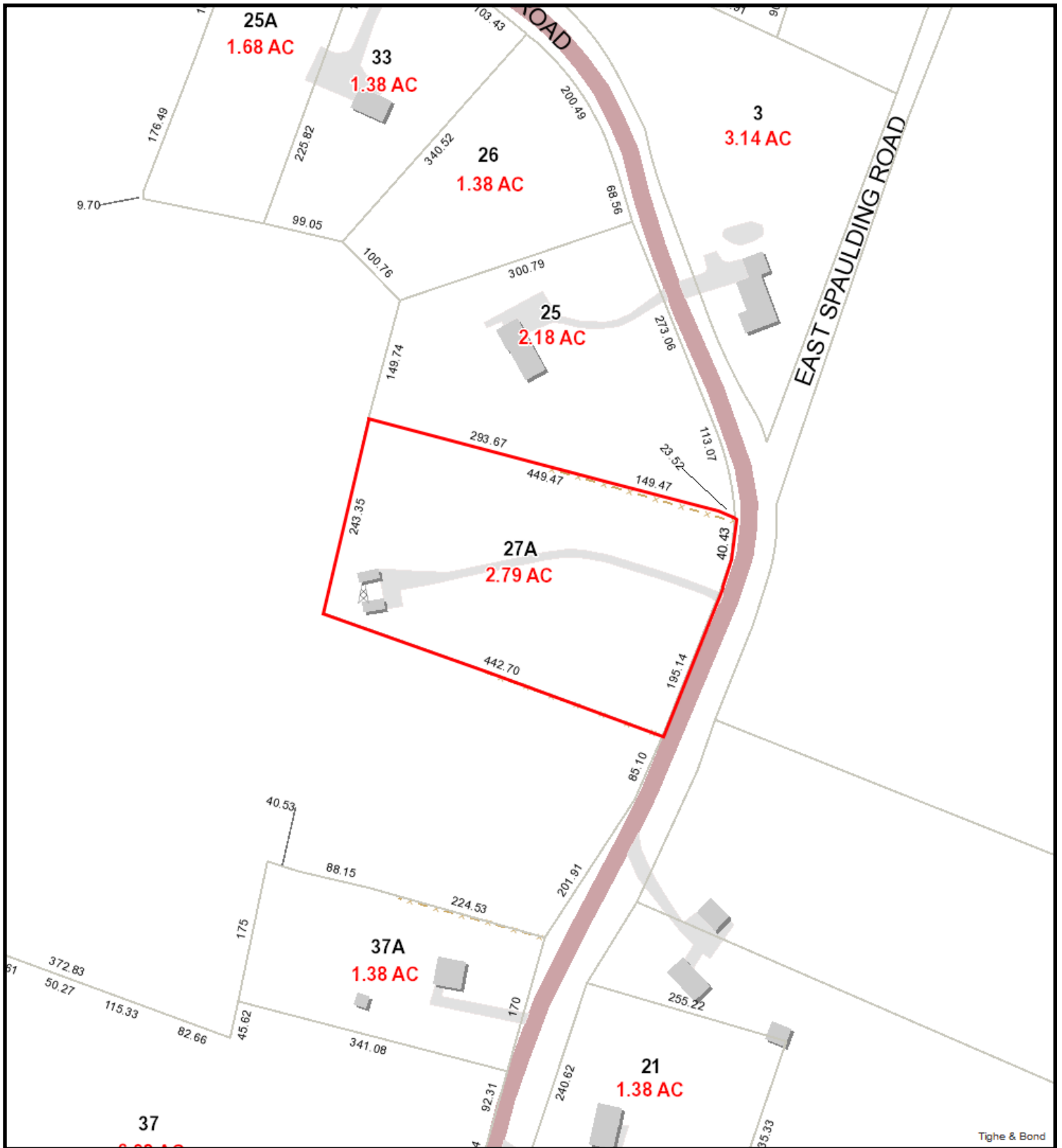
Outbuildings

| Outbuildings | | | | | | <u>Legend</u> |
|--------------|---------------------|----------|-----------------|---------------|-----------|---------------|
| Code | Description | Sub Code | Sub Description | Size | Value | Bldg # |
| RS5 | Cell Tower Building | | | 312.00 UNITS | \$23,400 | 1 |
| TT4 | Cell Tower | | | 150.00 HEIGHT | \$101,250 | 1 |
| FN4 | Fence 8' Chain | | | 256.00 L.F. | \$3,710 | 1 |

Valuation History

| Appraisal | | | |
|----------------|--------------|----------|-----------|
| Valuation Year | Improvements | Land | Total |
| 2020 | \$128,360 | \$40,090 | \$168,450 |
| 2019 | \$128,360 | \$40,090 | \$168,450 |

| Assessment | | | |
|----------------|--------------|----------|-----------|
| Valuation Year | Improvements | Land | Total |
| 2020 | \$89,860 | \$28,060 | \$117,920 |
| 2019 | \$89,860 | \$28,060 | \$117,920 |



Tighe & Bond

2/25/2021 3:07:52 PM

Scale: 1"=166'

Scale is approximate

The information depicted on this map is for planning purposes only. It is not adequate for legal boundary definition, regulatory interpretation, or parcel-level analyses.



EXHIBIT 3



AMERICAN TOWER®
CORPORATION

Post – Modification Structural Analysis Report

Structure : 150 ft Monopole
ATC Site Name : Plainfield CT 6, CT
ATC Asset Number : 302498
Engineering Number : 13211930_C4_10
Proposed Carrier : AT&T MOBILITY
Carrier Site Name : MRCTB046850
Carrier Site Number : CTL02051
Site Location : 45 Spaulding Road
Plainfield, CT 06374-1824
41.674800,-71.879100
County : Windham
Date : February 16, 2021
Max Usage : 99%
Result : Pass



Prepared By:
Christopher Jolly
Structural Engineer III

Reviewed By:

COA: PEC.0001553



Table of Contents

| | |
|--------------------------------------|----------|
| Introduction | 1 |
| Supporting Documents | 1 |
| Analysis | 1 |
| Conclusion..... | 1 |
| Existing and Reserved Equipment..... | 2 |
| Equipment to be Removed..... | 2 |
| Proposed Equipment | 2 |
| Structure Usages | 3 |
| Foundations | 3 |
| Deflection, Twist, and Sway..... | 3 |
| Standard Conditions | 4 |
| Calculations | Attached |



Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 150 ft monopole to reflect the change in loading by AT&T MOBILITY.

Supporting Documents

| | |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Tower Drawings | ITT Meyer 'Type B' Specification, ATT Spec AT-8935, dated April 13, 1984 |
| Foundation Drawing | SNET Job #3C234, dated April 24, 1990 |
| Geotechnical Report | GEOservices Project #21-07254, dated April 20, 2009 |
| Modifications | ATC Project #48651233, dated May 8, 2012 Mount Mods by Infinigy Job #1009-Z003-B, dated July 15, 2020 ATC Projecct #13211930_C6_09, dated February 8, 2021 (Pending)* |
| Inspection | Infinigy Project #1009-Z003-B, dated July 1, 2020 |

Analysis

The tower was analyzed using American Tower Corporation’s tower analysis software. This program considers an elastic three-dimensional model and second-order effects per ANSI/TIA-222.

| | |
|--------------------------------------|------------------------------------------------------------------|
| Basic Wind Speed: | 121 mph (3-Second Gust) |
| Basic Wind Speed w/ Ice: | 49 mph (3-Second Gust) w/ 0.85" radial ice concurrent |
| Code: | ANSI/TIA-222-H / 2015 IBC / 2018 Connecticut State Building Code |
| Exposure Category: | B |
| Risk Category: | II |
| Topographic Factor Procedure: | Method 1 |
| Topographic Category: | 1 |
| Crest Height (H): | 0 ft |
| Spectral Response: | $S_s = 0.19, S_1 = 0.05$ |
| Site Class: | D - Stiff Soil |

**Wind load and Ice thickness have been reduced by applicable existing structure load modification factors in accordance with TIA-222-H, Annex S.

Conclusion

Based on the analysis results, the structure meets the requirements per the applicable codes listed above. The tower and foundation can support the equipment as described in this report. If the pending modifications cited in the Supporting Documents table are not completed, the results of this analysis are no longer valid, and AT&T MOBILITY should contact American Tower’s Site Manager for further direction on how to proceed.

If you have any questions or require additional information, please contact American Tower via email at Engineering@americantower.com. Please include the American Tower site name, site number, and engineering number in the subject line for any questions.



Existing and Reserved Equipment

| Elev. ¹ (ft) | Qty | Antenna | Mount Type | Lines | Carrier |
|-------------------------|-----|---------------------------------------|------------|-------------------------------------------------------------------------------------|------------------|
| 154.0 | 6 | Powerwave Allgon LGP21401 | - | (1) 0.39" (10mm) Fiber Trunk (2) 0.78" (19.7mm) 8 AWG 6 (6) 1 5/8" Coax | AT&T MOBILITY |
| | 6 | Powerwave Allgon LGP21901 | | | |
| | 3 | Powerwave Allgon 7770.00 | | | |
| | 1 | Raycap DC6-48-60-18-8F (23.5" Height) | | | |
| 114.0 | 1 | RFS DB-T1-6Z-8AB-OZ | T-Arm | (12) 1 5/8" Coax (1) 1 5/8" Hybriflex | VERIZON WIRELESS |
| | 3 | Amphenol Antel BXA-70063-6CF-EDIN-X | | | |
| | 3 | Amphenol Antel BXA-70080-4CF-EDIN-X | | | |
| | 3 | Alcatel-Lucent RRH2X60-AWS Band 4 | | | |
| | 6 | Commscope HBXX-6517DS-A2M | | | |
| | 6 | RFS FD9R6004/2C-3L (3.1 lbs) | | | |
| | 3 | Alcatel-Lucent RRH2X60-1900 | | | |

Equipment to be Removed

| Elev. ¹ (ft) | Qty | Antenna | Mount Type | Lines | Carrier |
|-------------------------|-----|----------------------------------------|-------------------------|-----------------------------------|---------------|
| 154.0 | 3 | Ericsson RRUS 12 | Platform with Handrails | (6) 1 5/8" Coax (1) 3" conduit | AT&T MOBILITY |
| | 3 | Ericsson RRUS-11 | | | |
| | 3 | Powerwave Allgon 7770.00 | | | |
| | 2 | KMW AM-X-CD-17-65-00T-RET (96" Height) | | | |
| | 1 | Andrew SBNH-1D6565C (60.8 lbs) | | | |
| 39.0 | 1 | Generic 0.5' Omni | - | (1) 1/2" Coax | |

Proposed Equipment

| Elev. ¹ (ft) | Qty | Antenna | Mount Type | Lines | Carrier |
|-------------------------|-----|---------------------------------------|-------------------------------------------------------------|------------------------------------------------------------------------------------|---------------|
| 154.0 | 1 | Raycap DC6-48-60-18-8F (23.5" Height) | Platform with Handrails with Site Pro 1 P/N HRK12 Kit | (2) 0.39" (10mm) Fiber Trunk (4) 0.78" (19.7mm) 8 AWG 6 (3) 2" conduit | AT&T MOBILITY |
| | 3 | Ericsson RRUS 8843 B2, B66A | | | |
| | 3 | Ericsson RRUS 4478 B14 | | | |
| | 3 | Ericsson RRUS 4415 B30 | | | |
| | 3 | Ericsson RRUS 4449 B5, B12 | | | |
| | 3 | CCI HPA65R-BU8A | | | |
| | 3 | CCI DMP65R-BU8D | | | |
| | 3 | CCI OPA65R-BU8D | | | |

¹ Contracted elevations are shown for appurtenances within contracted installation tolerances. Appurtenances outside of contract limits are shown at installed elevations.

Install proposed lines inside the pole shaft.



Structure Usages

| Structural Component | Controlling Usage | Pass/Fail |
|----------------------|-------------------|-----------|
| Anchor Bolts | 84% | Pass |
| Shaft | 99% | Pass |
| Base Plate | 57% | Pass |
| Flange Plate | 81% | Pass |
| Reinforcement | 77% | Pass |

Foundations

| Reaction Component | Analysis Reactions | % of Usage |
|--------------------|--------------------|------------|
| Moment (Kips-Ft) | 2,440.6 | 95% |
| Axial (Kips) | 48.0 | 76% |
| Shear (Kips) | 24.4 | 24% |

The structure base reactions resulting from this analysis were found to be acceptable through analysis based on geotechnical and foundation information, therefore no modification or reinforcement of the foundation will be required.

Deflection and Sway*

| Antenna Elevation (ft) | Antenna | Carrier | Deflection (ft) | Sway (Rotation) (°) |
|------------------------|---------------------------------------|---------------|-----------------|---------------------|
| 150.0 | Raycap DC6-48-60-18-8F (23.5" Height) | AT&T MOBILITY | 2.420 | 2.037 |
| | Ericsson RRUS 8843 B2, B66A | | | |
| | Ericsson RRUS 4478 B14 | | | |
| | Ericsson RRUS 4415 B30 | | | |
| | Ericsson RRUS 4449 B5, B12 | | | |
| | CCI HPA65R-BU8A | | | |
| | CCI DMP65R-BU8D | | | |
| | CCI OPA65R-BU8D | | | |

*Deflection and Sway was evaluated considering a design wind speed of 60 mph (3-Second Gust) per ANSI/TIA-222-H



Standard Conditions

All engineering services performed by A.T. Engineering Service, PLLC are prepared on the basis that the information used is current and correct. This information may consist of, but is not limited to the following:

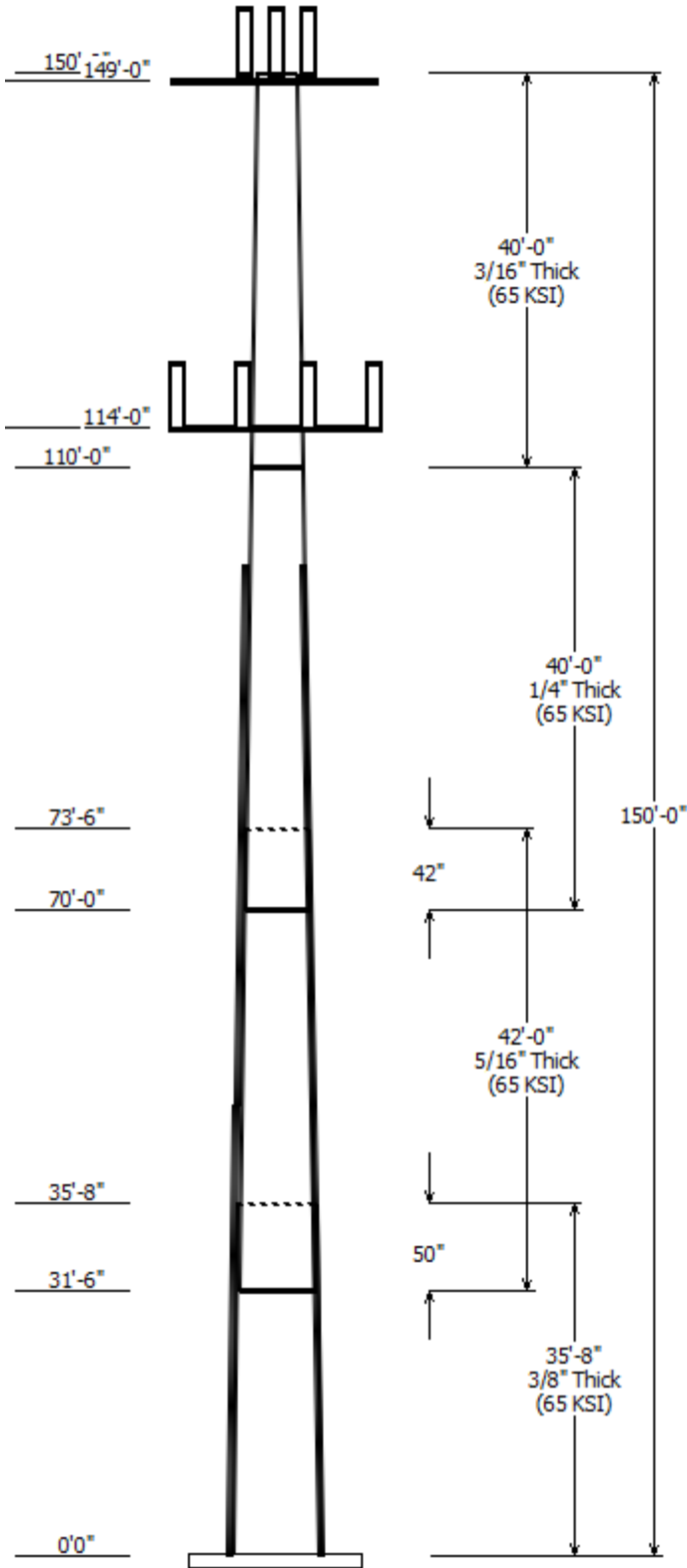
- Information supplied by the client regarding antenna, mounts and feed line loading
- Information from drawings, design and analysis documents, and field notes in the possession of A.T. Engineering Service, PLLC

It is the responsibility of the client to ensure that the information provided to A.T. Engineering Service, PLLC and used in the performance of our engineering services is correct and complete.

All assets of American Tower Corporation, its affiliates and subsidiaries (collectively "American Tower") are inspected at regular intervals. Based upon these inspections and in the absence of information to the contrary, American Tower assumes that all structures were constructed in accordance with the drawings and specifications.

Unless explicitly agreed by both the client and A.T. Engineering Service, PLLC, all services will be performed in accordance with the current revision of ANSI/TIA-222.

All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. A.T. Engineering Service, PLLC is not responsible for the conclusions, opinions and recommendations made by others based on the information supplied herein.



| Job Information | |
|------------------------------------------------|--------------------------|
| Client : AT&T MOBILITY | Code: ANSI/TIA-222-H |
| Pole : 302498-post mod | |
| Location : Plainfield CT 6, CT | |
| Description : 150' ITT Meyer Type "B" Monopole | Risk Category : II |
| Shape : 12 Sides | Exposure : B |
| Height : 150.00 (ft) | Topo Method : Method 1 |
| Base Elev (ft): 0.00 | Topographic Category : 1 |
| Taper: 0.156706(in/ft) | |

| Sections Properties | | | | | | |
|---------------------|-------------|---------------|--------|------------------|---------------------|-------------|
| Shaft Section | Length (ft) | Diameter (in) | | Thick Joint (in) | Overlap Length (in) | Steel Grade |
| | | Top | Bottom | | | |
| 1 | 35.667 | 31.79 | 37.38 | 0.375 | 0.000 | 12 Sides 65 |
| 2 | 42.000 | 26.48 | 33.06 | 0.313 Slip Joint | 50.000 | 12 Sides 65 |
| 3 | 40.000 | 21.26 | 27.53 | 0.250 Slip Joint | 42.000 | 12 Sides 65 |
| 4 | 40.000 | 14.99 | 21.26 | 0.188 Butt Joint | 0.000 | 12 Sides 65 |

| Discrete Appurtenance | | | |
|-----------------------|-----------------|-----|-------------------------------|
| Attach Elev (ft) | Force Elev (ft) | Qty | Description |
| 150.000 | 154.000 | 3 | CCI OPA65R-BU8D |
| 150.000 | 154.000 | 3 | CCI DMP65R-BU8D |
| 150.000 | 154.000 | 3 | CCI HPA65R-BU8A |
| 150.000 | 154.000 | 3 | Powerwave Allgon 7770.00 |
| 150.000 | 154.000 | 3 | Ericsson RRUS 4449 B5, B12 |
| 150.000 | 154.000 | 3 | Ericsson RRUS 4415 B30 |
| 150.000 | 154.000 | 3 | Ericsson RRUS 4478 B14 |
| 150.000 | 154.000 | 3 | Ericsson RRUS 8843 B2, B66A |
| 150.000 | 154.000 | 1 | Raycap DC6-48-60-18-8F (23.5" |
| 150.000 | 154.000 | 1 | Raycap DC6-48-60-18-8F (23.5" |
| 150.000 | 154.000 | 6 | Powerwave Allgon LGP21401 |
| 150.000 | 154.000 | 6 | Powerwave Allgon LGP21901 |
| 149.000 | 149.000 | 1 | Platform w/ HRs w/ SitePro1 |
| 149.000 | 149.000 | 3 | Flat Side Arm |
| 114.000 | 117.000 | 6 | Commscope HBXX-6517DS- |
| 114.000 | 114.000 | 3 | Round T-Arms |
| 114.000 | 117.000 | 3 | Amphenol Antel BXA-70063- |
| 114.000 | 117.000 | 1 | RFS DB-T1-6Z-8AB-0Z |
| 114.000 | 117.000 | 3 | Amphenol Antel BXA-70080- |
| 114.000 | 117.000 | 3 | Alcatel-Lucent RRH2X60-AWS |
| 114.000 | 117.000 | 3 | Alcatel-Lucent RRH2X60-1900 |
| 114.000 | 117.000 | 6 | RFS FD9R6004/2C-3L (3.1 lbs) |

| Linear Appurtenance | | | |
|---------------------|--------|------------------|-----------------|
| Elev (ft) From | To | Description | Exposed To Wind |
| 52.500 | 106.0 | #20 w/ Angle | Yes |
| 52.500 | 106.0 | #20 w/ Angle | Yes |
| 52.500 | 106.0 | #20 w/ Angle | Yes |
| 52.500 | 106.0 | #20 w/ Angle | Yes |
| 5.000 | 114.0 | 1 5/8" Coax | No |
| 5.000 | 114.0 | 1 5/8" Hybriflex | No |
| 5.000 | 154.0 | 0.39" (10mm) | No |
| 5.000 | 154.0 | 0.78" (19.7mm) 8 | No |
| 0.000 | 52.500 | #20 w/ Angle | Yes |
| 0.000 | 52.500 | #20 w/ Angle | Yes |
| 0.000 | 52.500 | #20 w/ Angle | Yes |
| 0.000 | 52.500 | #20 w/ Angle | Yes |
| 0.000 | 154.0 | 0.39" (10mm) | No |

| | | | |
|-------|-------|------------------|----|
| 0.000 | 154.0 | 0.78" (19.7mm) 8 | No |
| 0.000 | 154.0 | 1 5/8" Coax | No |
| 0.000 | 154.0 | 2" conduit | No |

Load Cases

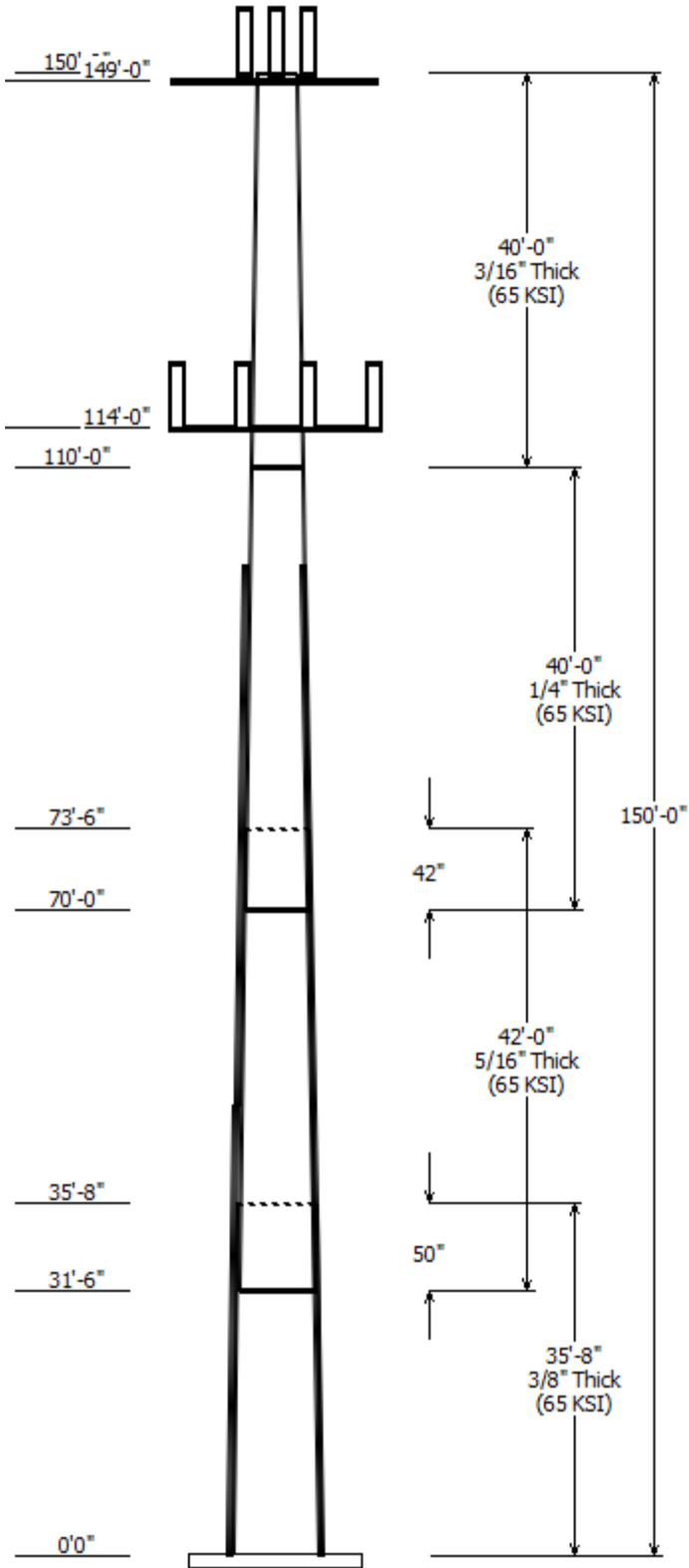
| | |
|----------------------|----------------------------------|
| 1.2D + 1.0W | 121 mph with No Ice |
| 0.9D + 1.0W | 121 mph with No Ice (Reduced DL) |
| 1.2D + 1.0Di + 1.0Wi | 49 mph with 0.85 in Radial Ice |
| 1.2D + 1.0Ev + 1.0Eh | Seismic |
| 0.9D - 1.0Ev + 1.0Eh | Seismic (Reduced DL) |
| 1.0D + 1.0W | Serviceability 60 mph |

Reactions

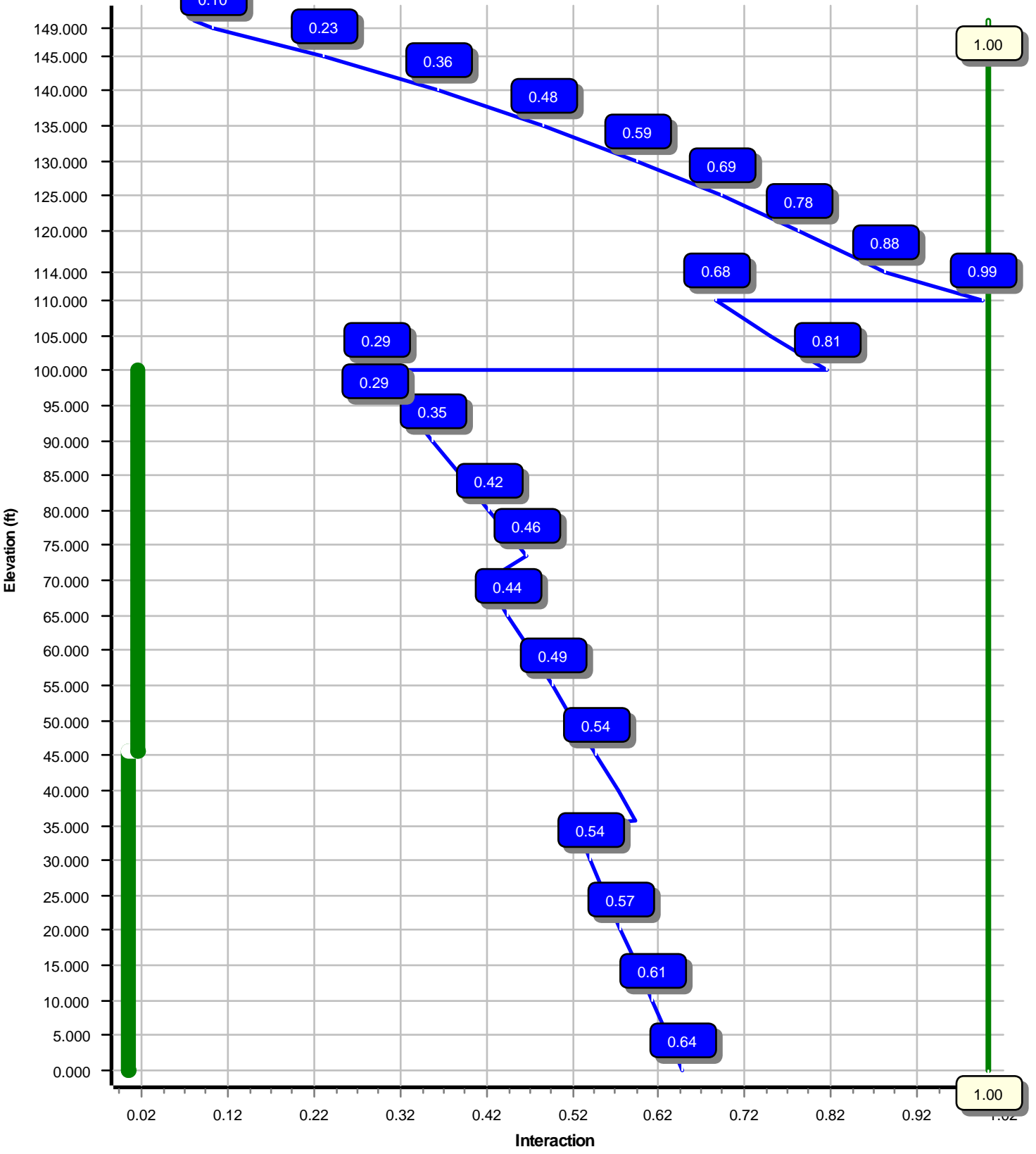
| Load Case | Moment (kip-ft) | Shear (kip) | Axial (kip) |
|----------------------|-----------------|-------------|-------------|
| 1.2D + 1.0W | 2440.63 | 24.39 | 38.66 |
| 0.9D + 1.0W | 2403.41 | 24.36 | 28.98 |
| 1.2D + 1.0Di + 1.0Wi | 492.11 | 4.48 | 47.96 |
| 1.2D + 1.0Ev + 1.0Eh | 122.43 | 0.97 | 38.43 |
| 0.9D - 1.0Ev + 1.0Eh | 120.02 | 0.97 | 26.66 |
| 1.0D + 1.0W | 534.09 | 5.38 | 32.26 |

Dish Deflections

| Load Case | Attach Elev (ft) | Deflection (in) | Rotation (deg) |
|-----------|------------------|-----------------|----------------|
| | 0.00 | 0.000 | 0.000 |



Load Case : 1.2D + 1.0W
Max Ratio 99.35% at 110.0 ft



Site Number: 302498-post mod
Site Name: Plainfield CT 6, CT
Customer: AT&T MOBILITY

Code: ANSI/TIA-222-H
Engineering Number:13211930_C4_10

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Analysis Parameters

| | | | |
|---------------------|--------------------|----------------------|-------|
| Location : | Windham County, CT | Height (ft) : | 150 |
| Code : | ANSI/TIA-222-H | Base Diameter (in) : | 37.38 |
| Shape : | 12 Sides | Top Diameter (in) : | 15.00 |
| Pole Type : | Taper | Taper (in/ft) : | 0.157 |
| Pole Manufacturer : | ITT Meyer | Rotation (deg) : | 0.00 |
| Kd (non-service) : | 0.95 | Ke : | 0.98 |

Ice & Wind Parameters

| | | | |
|-------------------------------|----------|--------------------------------|-----------|
| Exposure Category: | B | Design Wind Speed Without Ice: | 121 mph |
| Risk Category: | II | Design Wind Speed With Ice: | 49 mph |
| Topographic Factor Procedure: | Method 1 | Operational Wind Speed: | 60 mph |
| Topographic Category: | 1 | Design Ice Thickness: | 0.85 in |
| Crest Height: | 0 ft | HMSL: | 560.00 ft |

Seismic Parameters

| | | | | | |
|----------------------------------------|---------------------------------|------------|-------|------------|-------|
| Analysis Method: | Equivalent Lateral Force Method | | | | |
| Site Class: | D - Stiff Soil | | | | |
| Period Based on Rayleigh Method (sec): | 2.73 | | | | |
| T_L (sec): | 6 | p: | 1 | | |
| S_s : | 0.187 | S_1 : | 0.054 | C_s : | 0.030 |
| F_a : | 1.600 | F_v : | 2.400 | C_s Max: | 0.030 |
| S_{ds} : | 0.199 | S_{d1} : | 0.086 | C_s Min: | 0.030 |

Load Cases

| | |
|----------------------|----------------------------------|
| 1.2D + 1.0W | 121 mph with No Ice |
| 0.9D + 1.0W | 121 mph with No Ice (Reduced DL) |
| 1.2D + 1.0Di + 1.0Wi | 49 mph with 0.85 in Radial Ice |
| 1.2D + 1.0Ev + 1.0Eh | Seismic |
| 0.9D - 1.0Ev + 1.0Eh | Seismic (Reduced DL) |
| 1.0D + 1.0W | Serviceability 60 mph |

Shaft Section Properties

| Sect Info | Length (ft) | Thick (in) | Fy (ksi) | Joint Type | Joint Len (in) | Weight (lb) | Bottom | | | | | | Top | | | | | | |
|--------------|-------------|------------|----------|------------|----------------|-------------|----------|-----------|-------------------------|-----------------------|-----------|-----------|----------|-----------|-------------------------|-----------------------|-----------|-----------|---------------|
| | | | | | | | Dia (in) | Elev (ft) | Area (in ²) | Ix (in ⁴) | W/t Ratio | D/t Ratio | Dia (in) | Elev (ft) | Area (in ²) | Ix (in ⁴) | W/t Ratio | D/t Ratio | Taper (in/ft) |
| 1-12 | 35.667 | 0.3750 | 65 | | 0.00 | 5,014 | 37.38 | 0.00 | 44.68 | 7810.1 | 24.03 | 99.68 | 31.79 | 35.67 | 37.93 | 4778.8 | 20.04 | 84.78 | 0.156706 |
| 2-12 | 42.000 | 0.3125 | 65 | Slip | 50.00 | 4,237 | 33.06 | 31.50 | 32.96 | 4514.1 | 25.67 | 105.82 | 26.48 | 73.50 | 26.34 | 2303.2 | 20.03 | 84.76 | 0.156706 |
| 3-12 | 40.000 | 0.2500 | 65 | Slip | 42.00 | 2,646 | 27.53 | 70.00 | 21.96 | 2087.3 | 26.83 | 110.14 | 21.26 | 110.00 | 16.92 | 953.9 | 20.11 | 85.07 | 0.156706 |
| 4-12 | 40.000 | 0.1875 | 65 | Butt | 0.00 | 1,475 | 21.26 | 110.00 | 12.73 | 721.8 | 27.71 | 113.43 | 14.99 | 150.00 | 8.94 | 250.4 | 18.76 | 79.99 | 0.156706 |
| Shaft Weight | | | | | | 13,372 | | | | | | | | | | | | | |

Discrete Appurtenance Properties

| Attach Elev (ft) | Description | Qty | Ka | Vert Ecc (ft) | Weight (lb) | No Ice EPAa (sf) | Orientation Factor | Weight (lb) | Ice EPAa (sf) | Orientation Factor |
|------------------|---------------------------------|-----|------|---------------|-------------|------------------|--------------------|-------------|---------------|--------------------|
| 150.00 | Powerwave Allgon LGP21901 | 6 | 0.75 | 4.000 | 5.50 | 0.200 | 0.50 | 9.86 | 0.381 | 0.50 |
| 150.00 | Powerwave Allgon LGP21401 | 6 | 0.75 | 4.000 | 14.10 | 1.104 | 0.50 | 28.26 | 1.509 | 0.50 |
| 150.00 | Raycap DC6-48-60-18-8F (23.5" | 1 | 0.75 | 4.000 | 20.00 | 1.260 | 1.00 | 49.89 | 1.634 | 1.00 |
| 150.00 | Raycap DC6-48-60-18-8F (23.5" | 1 | 0.75 | 4.000 | 20.00 | 1.260 | 1.00 | 49.89 | 1.634 | 1.00 |
| 150.00 | Ericsson RRUS 8843 B2, B66A | 3 | 0.75 | 4.000 | 72.00 | 1.639 | 0.50 | 106.79 | 2.119 | 0.50 |
| 150.00 | Ericsson RRUS 4478 B14 | 3 | 0.75 | 4.000 | 59.90 | 1.842 | 0.50 | 91.29 | 2.351 | 0.50 |
| 150.00 | Ericsson RRUS 4415 B30 | 3 | 0.75 | 4.000 | 46.00 | 1.842 | 0.50 | 73.83 | 2.351 | 0.50 |
| 150.00 | Ericsson RRUS 4449 B5, B12 | 3 | 0.75 | 4.000 | 71.00 | 1.969 | 0.50 | 107.58 | 2.498 | 0.50 |
| 150.00 | Powerwave Allgon 7770.00 | 3 | 0.75 | 4.000 | 35.00 | 5.508 | 0.65 | 104.16 | 6.087 | 0.65 |
| 150.00 | CCI HPA65R-BU8A | 3 | 0.75 | 4.000 | 54.00 | 11.230 | 0.71 | 185.86 | 13.060 | 0.71 |
| 150.00 | CCI DMP65R-BU8D | 3 | 0.75 | 4.000 | 95.70 | 17.871 | 0.63 | 288.63 | 19.963 | 0.63 |
| 150.00 | CCI OPA65R-BU8D | 3 | 0.75 | 4.000 | 76.50 | 18.089 | 0.63 | 272.23 | 20.185 | 0.63 |
| 149.00 | Flat Side Arm | 3 | 1.00 | 0.000 | 150.00 | 5.000 | 0.67 | 191.45 | 6.105 | 0.67 |
| 149.00 | Platform w/ HRs w/ SitePro1 HRK | 1 | 1.00 | 0.000 | 2,500.00 | 44.500 | 1.00 | 3,486.96 | 62.068 | 1.00 |
| 114.00 | RFS FD9R6004/2C-3L (3.1 lbs) | 6 | 0.80 | 3.000 | 3.10 | 0.314 | 0.50 | 7.52 | 0.527 | 0.50 |
| 114.00 | Alcatel-Lucent RRH2X60-1900 | 3 | 0.80 | 3.000 | 43.00 | 1.876 | 0.50 | 73.51 | 2.393 | 0.50 |
| 114.00 | Alcatel-Lucent RRH2X60-AWS | 3 | 0.80 | 3.000 | 55.00 | 3.347 | 0.50 | 99.50 | 4.144 | 0.50 |
| 114.00 | Amphenol Antel BXA-70080-4CF- | 3 | 0.80 | 3.000 | 12.00 | 3.570 | 0.72 | 59.92 | 4.589 | 0.72 |
| 114.00 | RFS DB-T1-6Z-8AB-0Z | 1 | 0.80 | 3.000 | 44.00 | 4.800 | 1.00 | 113.41 | 5.584 | 1.00 |
| 114.00 | Amphenol Antel BXA-70063-6CF- | 3 | 0.80 | 3.000 | 17.00 | 7.569 | 0.66 | 98.61 | 9.090 | 0.66 |
| 114.00 | Round T-Arms | 3 | 0.75 | 0.000 | 250.00 | 8.000 | 0.67 | 365.26 | 11.750 | 0.67 |
| 114.00 | Commscope HBXX-6517DS-A2M | 6 | 0.80 | 3.000 | 40.80 | 8.528 | 0.68 | 137.80 | 10.130 | 0.68 |
| Totals | Num Loadings:22 | 70 | | | 6,076.30 | | | 11,156.67 | | |

Linear Appurtenance Properties

Load Case Azimuth (deg) :

| Elev From (ft) | Elev To (ft) | Qty | Description | Coax Dia (in) | Coax Wt (lb/ft) | Max Coax / Flat Row | Dist Between Rows (in) | Dist Between Cols (in) | Dist Azimuth (deg) | Dist From Face (in) | Exposed To Wind Carrier |
|----------------|--------------|-----|-----------------------|---------------|-----------------|---------------------|------------------------|------------------------|--------------------|---------------------|-------------------------|
| 0.00 | 154.00 | 2 | 0.39" (10mm) Fiber | 0.39 | 0.06 | N | 0 | 0.00 | 0.00 | 0 | N AT&T MOBILITY |
| 0.00 | 154.00 | 4 | 0.78" (19.7mm) 8 AWG | 0.78 | 0.59 | N | 0 | 0.00 | 0.00 | 0 | N AT&T MOBILITY |
| 0.00 | 154.00 | 6 | 1 5/8" Coax | 1.98 | 0.82 | N | 0 | 0.00 | 0.00 | 0 | N AT&T MOBILITY |
| 0.00 | 154.00 | 3 | 2" conduit | 2.38 | 3.65 | N | 0 | 0.00 | 0.00 | 0 | N AT&T MOBILITY |
| 5.00 | 154.00 | 1 | 0.39" (10mm) Fiber | 0.39 | 0.06 | N | 0 | 0.00 | 0.00 | 0 | N AT&T MOBILITY |
| 5.00 | 154.00 | 2 | 0.78" (19.7mm) 8 AWG | 0.78 | 0.59 | N | 0 | 0.00 | 0.00 | 0 | N AT&T MOBILITY |
| 5.00 | 114.00 | 12 | 1 5/8" Coax | 1.98 | 0.82 | N | 0 | 0.00 | 0.00 | 0 | N VERIZON WIRELESS |
| 5.00 | 114.00 | 1 | 1 5/8" Hybriflex | 1.98 | 1.30 | N | 0 | 0.00 | 0.00 | 0 | N VERIZON WIRELESS |
| 52.50 | 106.00 | 1 | #20 w/ Angle Brackets | 4.00 | 4.68 | N | 1 | 0.00 | 0.00 | 0 | Y |
| 52.50 | 106.00 | 1 | #20 w/ Angle Brackets | 4.00 | 4.68 | N | 1 | 0.00 | 0.00 | 90 | Y |
| 52.50 | 106.00 | 1 | #20 w/ Angle Brackets | 4.00 | 4.68 | N | 1 | 0.00 | 0.00 | 180 | Y |
| 52.50 | 106.00 | 1 | #20 w/ Angle Brackets | 4.00 | 4.68 | N | 1 | 0.00 | 0.00 | 270 | Y |

Site Number: 302498-post mod

Code: ANSI/TIA-222-H

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Site Name: Plainfield CT 6, CT

Engineering Number: 13211930_C4_10

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Customer: AT&T MOBILITY

| | | | | | | | | | | | | |
|------|-------|---|-----------------------|------|------|---|---|------|------|-----|------|---|
| 0.00 | 52.50 | 1 | #20 w/ Angle Brackets | 4.00 | 4.68 | N | 1 | 0.00 | 0.00 | 180 | 1.00 | Y |
| 0.00 | 52.50 | 1 | #20 w/ Angle Brackets | 4.00 | 4.68 | N | 1 | 0.00 | 0.00 | 0 | 1.00 | Y |
| 0.00 | 52.50 | 1 | #20 w/ Angle Brackets | 4.00 | 4.68 | N | 1 | 0.00 | 0.00 | 90 | 1.00 | Y |
| 0.00 | 52.50 | 1 | #20 w/ Angle Brackets | 4.00 | 4.68 | N | 1 | 0.00 | 0.00 | 270 | 1.00 | Y |

Additional Steel

| Elev From (ft) | Elev To (ft) | Qty | Description | Fy (ksi) | Offset (in) | Intermediate Connections | | | Connectors | Continuation? |
|----------------|--------------|-----|--------------------|----------|-------------|--------------------------|--------------|----------|-----------------|---------------|
| | | | | | | Description | Spacing (in) | Len (in) | | |
| 0.00 | 45.50 | 4 | SOL #20 All Thread | 80 | 2.19 | 6" Angle Bracket | 30.0 | 3.31 | 5/8" A36 U-Bolt | No |
| 45.50 | 100.0 | 4 | SOL #20 All Thread | 80 | 2.19 | 6" Angle Bracket | 30.0 | 3.31 | 5/8" A36 U-Bolt | Yes |

Segment Properties (Max Len : 5. ft)

| Seg Top Elev (ft) | Description | Thick (in) | Flat Dia (in) | Area (in ²) | Ix (in ⁴) | W/t Ratio | D/t Ratio | F'y (ksi) | S (in ³) | Z (in ³) | Weight (lb) | Additional Reinforcing | | |
|-------------------|------------------|------------|---------------|-------------------------|-----------------------|-----------|-----------|-----------|----------------------|----------------------|-------------|-------------------------|-----------------------|-------------|
| | | | | | | | | | | | | Area (in ²) | Ix (in ⁴) | Weight (lb) |
| 0.00 | | 0.3750 | 37.380 | 44.684 | 7,810.1 | 24.03 | 99.68 | 78.5 | 403.6 | 0.0 | 0.0 | 19.64 | 4,816 | 0.0 |
| 5.00 | | 0.3750 | 36.596 | 43.737 | 7,324.4 | 23.47 | 97.59 | 79.1 | 386.6 | 0.0 | 752.2 | 19.64 | 4,648 | 334.0 |
| 10.00 | | 0.3750 | 35.813 | 42.791 | 6,859.3 | 22.91 | 95.50 | 79.7 | 370.0 | 0.0 | 736.1 | 19.64 | 4,482 | 334.0 |
| 15.00 | | 0.3750 | 35.029 | 41.845 | 6,414.3 | 22.35 | 93.41 | 80.3 | 353.7 | 0.0 | 720.0 | 19.64 | 4,319 | 334.0 |
| 20.00 | | 0.3750 | 34.246 | 40.899 | 5,989.0 | 21.79 | 91.32 | 80.9 | 337.8 | 0.0 | 703.9 | 19.64 | 4,159 | 334.0 |
| 25.00 | | 0.3750 | 33.462 | 39.953 | 5,582.9 | 21.23 | 89.23 | 81.6 | 322.3 | 0.0 | 687.8 | 19.64 | 4,003 | 334.0 |
| 30.00 | | 0.3750 | 32.679 | 39.007 | 5,195.6 | 20.67 | 87.14 | 81.9 | 307.1 | 0.0 | 671.7 | 19.64 | 3,849 | 334.0 |
| 31.50 | Bot - Section 2 | 0.3750 | 32.444 | 38.723 | 5,083.0 | 20.50 | 86.52 | 81.9 | 302.7 | 0.0 | 198.4 | 19.64 | 3,804 | 100.2 |
| 35.00 | | 0.3750 | 31.895 | 38.061 | 4,826.6 | 20.11 | 85.05 | 81.9 | 292.3 | 0.0 | 846.5 | 19.64 | 3,818 | 233.8 |
| 35.67 | Top - Section 1 | 0.3125 | 32.416 | 32.304 | 4,249.5 | 25.12 | 103.73 | 77.3 | 253.3 | 0.0 | 159.6 | 19.64 | 3,798 | 44.5 |
| 40.00 | | 0.3125 | 31.737 | 31.621 | 3,985.5 | 24.53 | 101.56 | 78.0 | 242.6 | 0.0 | 471.3 | 19.64 | 3,668 | 289.5 |
| 45.00 | | 0.3125 | 30.953 | 30.832 | 3,694.8 | 23.86 | 99.05 | 78.7 | 230.6 | 0.0 | 531.3 | 19.64 | 3,521 | 334.0 |
| 45.50 | Reinf. Top Reinf | 0.3125 | 30.875 | 30.753 | 3,666.5 | 23.79 | 98.80 | 78.8 | 229.4 | 0.0 | 52.4 | 19.64 | 3,507 | 33.4 |
| 50.00 | | 0.3125 | 30.170 | 30.044 | 3,418.5 | 23.19 | 96.54 | 79.4 | 218.9 | 0.0 | 465.5 | 19.64 | 3,377 | 300.6 |
| 55.00 | | 0.3125 | 29.386 | 29.255 | 3,156.4 | 22.52 | 94.04 | 80.2 | 207.5 | 0.0 | 504.5 | 19.64 | 3,236 | 334.0 |
| 60.00 | | 0.3125 | 28.603 | 28.467 | 2,908.0 | 21.85 | 91.53 | 80.9 | 196.4 | 0.0 | 491.0 | 19.64 | 3,098 | 334.0 |
| 65.00 | | 0.3125 | 27.819 | 27.679 | 2,673.0 | 21.17 | 89.02 | 81.6 | 185.6 | 0.0 | 477.6 | 19.64 | 2,963 | 334.0 |
| 70.00 | Bot - Section 3 | 0.3125 | 27.036 | 26.890 | 2,451.0 | 20.50 | 86.51 | 81.9 | 175.1 | 0.0 | 464.2 | 19.64 | 2,831 | 334.0 |
| 73.50 | Top - Section 2 | 0.2500 | 26.987 | 21.523 | 1,963.9 | 26.25 | 107.95 | 76.1 | 140.6 | 0.0 | 575.9 | 19.64 | 2,823 | 233.8 |
| 75.00 | | 0.2500 | 26.752 | 21.334 | 1,912.6 | 25.99 | 107.01 | 76.4 | 138.1 | 0.0 | 109.4 | 19.64 | 2,784 | 100.2 |
| 80.00 | | 0.2500 | 25.968 | 20.703 | 1,747.9 | 25.15 | 103.87 | 77.3 | 130.0 | 0.0 | 357.6 | 19.64 | 2,656 | 334.0 |
| 85.00 | | 0.2500 | 25.185 | 20.073 | 1,593.0 | 24.31 | 100.74 | 78.2 | 122.2 | 0.0 | 346.9 | 19.64 | 2,531 | 334.0 |
| 90.00 | | 0.2500 | 24.401 | 19.442 | 1,447.5 | 23.47 | 97.61 | 79.1 | 114.6 | 0.0 | 336.1 | 19.64 | 2,410 | 334.0 |
| 95.00 | | 0.2500 | 23.618 | 18.811 | 1,311.1 | 22.63 | 94.47 | 80.0 | 107.2 | 0.0 | 325.4 | 19.64 | 2,291 | 334.0 |
| 100.0 | | 0.2500 | 22.834 | 18.180 | 1,183.6 | 21.79 | 91.34 | 80.9 | 100.1 | 0.0 | 314.7 | 19.64 | 2,175 | 334.0 |
| 100.0 | Reinf. Top | 0.2500 | 22.822 | 18.170 | 1,181.6 | 21.78 | 91.29 | 81.0 | 100.0 | 0.0 | 4.9 | 19.64 | 2,173 | 5.3 |
| 105.0 | | 0.2500 | 22.051 | 17.550 | 1,064.6 | 20.95 | 88.20 | 81.9 | 93.3 | 0.0 | 299.0 | | | |
| 110.0 | Top - Section 3 | 0.2500 | 21.267 | 16.919 | 953.9 | 20.11 | 85.07 | 81.9 | 86.7 | 0.0 | 293.2 | | | |
| 110.0 | Bot - Section 4 | 0.1875 | 21.267 | 12.727 | 721.8 | 27.71 | 113.43 | 74.5 | 65.6 | 0.0 | | | | |
| 114.0 | | 0.1875 | 20.640 | 12.348 | 659.3 | 26.82 | 110.08 | 75.5 | 61.7 | 0.0 | 170.7 | | | |
| 115.0 | | 0.1875 | 20.484 | 12.254 | 644.3 | 26.59 | 109.25 | 75.7 | 60.8 | 0.0 | 41.9 | | | |
| 120.0 | | 0.1875 | 19.700 | 11.781 | 572.5 | 25.47 | 105.07 | 76.9 | 56.1 | 0.0 | 204.5 | | | |
| 125.0 | | 0.1875 | 18.917 | 11.308 | 506.3 | 24.35 | 100.89 | 78.2 | 51.7 | 0.0 | 196.4 | | | |
| 130.0 | | 0.1875 | 18.133 | 10.835 | 445.4 | 23.23 | 96.71 | 79.4 | 47.4 | 0.0 | 188.4 | | | |
| 135.0 | | 0.1875 | 17.350 | 10.362 | 389.5 | 22.11 | 92.53 | 80.6 | 43.4 | 0.0 | 180.3 | | | |
| 140.0 | | 0.1875 | 16.566 | 9.889 | 338.6 | 20.99 | 88.35 | 81.8 | 39.5 | 0.0 | 172.3 | | | |
| 145.0 | | 0.1875 | 15.783 | 9.416 | 292.3 | 19.87 | 84.17 | 81.9 | 35.8 | 0.0 | 164.2 | | | |
| 149.0 | | 0.1875 | 15.156 | 9.037 | 258.4 | 18.98 | 80.83 | 81.9 | 32.9 | 0.0 | 125.6 | | | |
| 150.0 | | 0.1875 | 14.999 | 8.942 | 250.4 | 18.76 | 79.99 | 81.9 | 32.3 | 0.0 | 30.6 | | | |
| | | | | | | | | | | | 13,371.9 | 6,685.3 | | |

| | | |
|-------------------------------|---------------------|---------------|
| Load Case: 1.2D + 1.0W | 121 mph with No Ice | 27 Iterations |
| Gust Response Factor :1.10 | | |
| Dead Load Factor :1.20 | | |
| Wind Load Factor :1.00 | | |

Applied Segment Forces Summary

| Seg Elev (ft) | Description | Shaft Forces | | Discrete Forces | | | Linear Forces | | Sum of Forces | | | | |
|---------------|------------------|--------------|----------------|-----------------|--------------------|-------------------|----------------|--------------|----------------|--------------|----------------|--------------------|----------------|
| | | Wind FX (lb) | Dead Load (lb) | Wind FX (lb) | Torsion MY (lb-ft) | Moment MZ (lb-ft) | Dead Load (lb) | Wind FX (lb) | Dead Load (lb) | Wind FX (lb) | Dead Load (lb) | Torsion MY (lb-ft) | Moment MZ (lb) |
| 0.00 | | 256.6 | 0.0 | | | | | 0.0 | 0.0 | 256.6 | 0.0 | 0.0 | 0.0 |
| 5.00 | | 507.8 | 902.6 | | | | | 107.2 | 623.2 | 615.0 | 1,525.8 | 0.0 | 0.0 |
| 10.00 | | 496.9 | 883.3 | | | | | 107.2 | 697.5 | 604.1 | 1,580.8 | 0.0 | 0.0 |
| 15.00 | | 486.0 | 864.0 | | | | | 107.2 | 697.5 | 593.3 | 1,561.5 | 0.0 | 0.0 |
| 20.00 | | 475.2 | 844.7 | | | | | 107.2 | 697.5 | 582.4 | 1,542.2 | 0.0 | 0.0 |
| 25.00 | | 464.3 | 825.4 | | | | | 107.2 | 697.5 | 571.5 | 1,522.9 | 0.0 | 0.0 |
| 30.00 | | 297.7 | 806.0 | | | | | 107.2 | 697.5 | 405.0 | 1,503.5 | 0.0 | 0.0 |
| 31.50 | Bot - Section 2 | 232.5 | 238.0 | | | | | 32.4 | 209.3 | 264.9 | 447.3 | 0.0 | 0.0 |
| 35.00 | | 195.6 | 1,015.8 | | | | | 77.4 | 488.2 | 273.0 | 1,504.1 | 0.0 | 0.0 |
| 35.67 | Top - Section 1 | 237.8 | 191.5 | | | | | 15.0 | 93.0 | 252.7 | 284.5 | 0.0 | 0.0 |
| 40.00 | | 446.7 | 565.6 | | | | | 99.4 | 604.5 | 546.0 | 1,170.1 | 0.0 | 0.0 |
| 45.00 | | 264.6 | 637.5 | | | | | 118.5 | 697.5 | 383.1 | 1,335.0 | 0.0 | 0.0 |
| 45.50 | Reinf. Top Reinf | 242.0 | 62.9 | | | | | 12.1 | 69.7 | 254.0 | 132.6 | 0.0 | 0.0 |
| 50.00 | | 460.4 | 558.6 | | | | | 110.3 | 627.7 | 570.7 | 1,186.3 | 0.0 | 0.0 |
| 55.00 | | 485.1 | 605.3 | | | | | 125.9 | 697.5 | 611.0 | 1,302.8 | 0.0 | 0.0 |
| 60.00 | | 484.0 | 589.2 | | | | | 129.2 | 697.5 | 613.3 | 1,286.7 | 0.0 | 0.0 |
| 65.00 | | 481.7 | 573.2 | | | | | 132.3 | 697.5 | 614.0 | 1,270.6 | 0.0 | 0.0 |
| 70.00 | Bot - Section 3 | 410.1 | 557.1 | | | | | 135.3 | 697.5 | 545.4 | 1,254.6 | 0.0 | 0.0 |
| 73.50 | Top - Section 2 | 242.5 | 691.1 | | | | | 96.4 | 488.2 | 338.9 | 1,179.4 | 0.0 | 0.0 |
| 75.00 | | 312.6 | 131.3 | | | | | 41.7 | 209.2 | 354.3 | 340.5 | 0.0 | 0.0 |
| 80.00 | | 477.2 | 429.1 | | | | | 140.7 | 697.5 | 617.9 | 1,126.6 | 0.0 | 0.0 |
| 85.00 | | 470.8 | 416.3 | | | | | 143.3 | 697.5 | 614.1 | 1,113.8 | 0.0 | 0.0 |
| 90.00 | | 463.7 | 403.4 | | | | | 145.7 | 697.5 | 609.4 | 1,100.9 | 0.0 | 0.0 |
| 95.00 | | 455.8 | 390.5 | | | | | 147.3 | 697.5 | 603.1 | 1,088.0 | 0.0 | 0.0 |
| 100.00 | | 229.4 | 377.6 | | | | | 148.4 | 697.5 | 377.8 | 1,075.1 | 0.0 | 0.0 |
| 100.08 | Reinf. Top | 221.4 | 5.9 | | | | | 2.4 | 11.2 | 223.7 | 17.1 | 0.0 | 0.0 |
| 105.00 | | 434.4 | 358.8 | | | | | 147.0 | 292.0 | 581.4 | 650.8 | 0.0 | 0.0 |
| 110.00 | Top - Section 3 | 350.8 | 351.9 | | | | | 150.5 | 206.8 | 501.3 | 558.7 | 0.0 | 0.0 |
| 114.00 | Appurtenance(s) | 167.4 | 204.8 | 2,724.0 | 0.0 | 6,750.7 | 1,726.1 | 0.0 | 147.5 | 2,891.4 | 2,078.4 | 0.0 | 0.0 |
| 115.00 | | 196.3 | 50.2 | | | | | 0.0 | 23.5 | 196.3 | 73.7 | 0.0 | 0.0 |
| 120.00 | | 321.8 | 245.4 | | | | | 0.0 | 117.5 | 321.8 | 362.9 | 0.0 | 0.0 |
| 125.00 | | 312.6 | 235.7 | | | | | 0.0 | 117.5 | 312.6 | 353.2 | 0.0 | 0.0 |
| 130.00 | | 303.0 | 226.0 | | | | | 0.0 | 117.5 | 303.0 | 343.6 | 0.0 | 0.0 |
| 135.00 | | 293.1 | 216.4 | | | | | 0.0 | 117.5 | 293.1 | 333.9 | 0.0 | 0.0 |
| 140.00 | | 282.8 | 206.7 | | | | | 0.0 | 117.5 | 282.8 | 324.3 | 0.0 | 0.0 |
| 145.00 | | 245.9 | 197.1 | | | | | 0.0 | 117.5 | 245.9 | 314.6 | 0.0 | 0.0 |
| 149.00 | Appurtenance(s) | 133.3 | 150.7 | 2,313.4 | 0.0 | 0.0 | 3,540.0 | 0.0 | 94.0 | 2,446.8 | 3,784.7 | 0.0 | 0.0 |
| 150.00 | Appurtenance(s) | 26.2 | 36.7 | 3,852.8 | 0.0 | 15,411.2 | 2,025.5 | 0.0 | 23.5 | 3,879.0 | 2,085.7 | 0.0 | 0.0 |
| Totals: | | | | | | | | | | 24,550.6 | 38,717.2 | 0.00 | 0.00 |

Load Case: 1.2D + 1.0W

121 mph with No Ice

27 Iterations

Gust Response Factor :1.10

Dead Load Factor :1.20

Wind Load Factor :1.00

Calculated Forces

| Seg Elev (ft) | Pu FY (-) (kips) | Vu FX (-) (kips) | Tu MY (ft-kips) | Mu MZ (ft-kips) | Mu MX (ft-kips) | Resultant Moment (ft-kips) | phi Pn (kips) | phi Vn (kips) | phi Tn (ft-kips) | phi Mn (ft-kips) | Total Deflect (in) | Rotation (deg) | Ratio |
|---------------|------------------|------------------|-----------------|-----------------|-----------------|----------------------------|---------------|---------------|------------------|------------------|--------------------|----------------|-------|
| 0.00 | -38.66 | -24.39 | 0.00 | -2,440.63 | 0.00 | 2,440.63 | 3,157.17 | 784.20 | 2,737.77 | 2,376.61 | 0.00 | 0.00 | 0.645 |
| 5.00 | -37.02 | -23.94 | 0.00 | -2,318.70 | 0.00 | 2,318.70 | 3,114.35 | 767.59 | 2,623.10 | 2,294.24 | 0.14 | -0.27 | 0.627 |
| 10.00 | -35.34 | -23.49 | 0.00 | -2,198.99 | 0.00 | 2,198.99 | 3,070.50 | 750.99 | 2,510.88 | 2,212.51 | 0.57 | -0.54 | 0.610 |
| 15.00 | -33.67 | -23.04 | 0.00 | -2,081.54 | 0.00 | 2,081.54 | 3,025.61 | 734.38 | 2,401.12 | 2,131.45 | 1.27 | -0.80 | 0.592 |
| 20.00 | -32.04 | -22.58 | 0.00 | -1,966.35 | 0.00 | 1,966.35 | 2,979.67 | 717.78 | 2,293.81 | 2,051.12 | 2.26 | -1.07 | 0.574 |
| 25.00 | -30.42 | -22.12 | 0.00 | -1,853.45 | 0.00 | 1,853.45 | 2,932.70 | 701.17 | 2,188.95 | 1,971.58 | 3.53 | -1.34 | 0.555 |
| 30.00 | -28.87 | -21.76 | 0.00 | -1,742.85 | 0.00 | 1,742.85 | 2,875.19 | 684.57 | 2,086.54 | 1,886.63 | 5.08 | -1.61 | 0.538 |
| 31.50 | -28.38 | -21.55 | 0.00 | -1,710.21 | 0.00 | 1,710.21 | 2,854.27 | 679.59 | 2,056.30 | 1,859.12 | 5.59 | -1.69 | 0.534 |
| 35.00 | -26.84 | -21.28 | 0.00 | -1,634.78 | 0.00 | 1,634.78 | 2,805.46 | 667.97 | 1,986.59 | 1,795.71 | 6.90 | -1.88 | 0.516 |
| 35.67 | -26.51 | -21.08 | 0.00 | -1,620.59 | 0.00 | 1,620.59 | 2,248.06 | 566.93 | 1,717.05 | 1,468.68 | 7.17 | -1.91 | 0.591 |
| 40.00 | -25.27 | -20.61 | 0.00 | -1,529.23 | 0.00 | 1,529.23 | 2,218.58 | 554.94 | 1,645.20 | 1,418.47 | 9.01 | -2.14 | 0.570 |
| 45.00 | -23.90 | -20.23 | 0.00 | -1,426.19 | 0.00 | 1,426.19 | 2,183.59 | 541.11 | 1,564.21 | 1,360.95 | 11.40 | -2.41 | 0.545 |
| 45.50 | -23.73 | -20.03 | 0.00 | -1,416.08 | 0.00 | 1,416.08 | 2,180.04 | 539.72 | 1,556.22 | 1,355.22 | 11.65 | -2.44 | 0.542 |
| 45.50 | -23.73 | -20.03 | 0.00 | -1,416.08 | 0.00 | 1,416.08 | 2,180.04 | 539.72 | 1,556.22 | 1,355.22 | 11.65 | -2.44 | 0.542 |
| 50.00 | -22.49 | -19.51 | 0.00 | -1,325.93 | 0.00 | 1,325.93 | 2,147.57 | 527.27 | 1,485.26 | 1,303.92 | 14.07 | -2.69 | 0.519 |
| 55.00 | -21.13 | -18.93 | 0.00 | -1,228.39 | 0.00 | 1,228.39 | 2,110.50 | 513.43 | 1,408.36 | 1,247.44 | 17.03 | -2.95 | 0.494 |
| 60.00 | -19.79 | -18.34 | 0.00 | -1,133.73 | 0.00 | 1,133.73 | 2,072.40 | 499.59 | 1,333.50 | 1,191.56 | 20.26 | -3.22 | 0.468 |
| 65.00 | -18.48 | -17.74 | 0.00 | -1,042.02 | 0.00 | 1,042.02 | 2,033.25 | 485.76 | 1,260.68 | 1,136.32 | 23.76 | -3.47 | 0.442 |
| 70.00 | -17.20 | -17.18 | 0.00 | -953.34 | 0.00 | 953.34 | 1,982.07 | 471.92 | 1,189.91 | 1,075.81 | 27.54 | -3.73 | 0.418 |
| 73.50 | -16.01 | -16.79 | 0.00 | -893.22 | 0.00 | 893.22 | 1,473.95 | 377.73 | 952.77 | 802.29 | 30.33 | -3.90 | 0.464 |
| 75.00 | -15.65 | -16.46 | 0.00 | -868.03 | 0.00 | 868.03 | 1,466.27 | 374.41 | 936.10 | 791.03 | 31.57 | -3.97 | 0.454 |
| 80.00 | -14.50 | -15.83 | 0.00 | -785.72 | 0.00 | 785.72 | 1,439.98 | 363.34 | 881.58 | 753.67 | 35.86 | -4.22 | 0.421 |
| 85.00 | -13.37 | -15.19 | 0.00 | -706.58 | 0.00 | 706.58 | 1,412.66 | 352.27 | 828.70 | 716.63 | 40.41 | -4.46 | 0.387 |
| 90.00 | -12.27 | -14.54 | 0.00 | -630.64 | 0.00 | 630.64 | 1,384.30 | 341.21 | 777.46 | 679.95 | 45.21 | -4.69 | 0.354 |
| 95.00 | -11.18 | -13.89 | 0.00 | -557.95 | 0.00 | 557.95 | 1,354.89 | 330.14 | 727.85 | 643.70 | 50.24 | -4.91 | 0.321 |
| 100.00 | -10.12 | -13.44 | 0.00 | -488.50 | 0.00 | 488.50 | 1,324.45 | 319.07 | 679.87 | 607.91 | 55.49 | -5.12 | 0.289 |
| 100.08 | -10.10 | -13.23 | 0.00 | -487.43 | 0.00 | 487.43 | 1,323.95 | 318.89 | 679.12 | 607.34 | 55.57 | -5.12 | 0.288 |
| 100.08 | -10.10 | -13.23 | 0.00 | -487.43 | 0.00 | 487.43 | 1,323.95 | 318.89 | 679.12 | 607.34 | 55.57 | -5.12 | 0.812 |
| 105.00 | -9.43 | -12.65 | 0.00 | -422.34 | 0.00 | 422.34 | 1,292.97 | 308.00 | 633.54 | 572.65 | 60.95 | -5.31 | 0.746 |
| 110.00 | -8.82 | -12.17 | 0.00 | -359.08 | 0.00 | 359.08 | 1,247.09 | 296.93 | 588.83 | 532.25 | 66.79 | -5.84 | 0.683 |
| 110.00 | -8.82 | -12.17 | 0.00 | -359.08 | 0.00 | 359.08 | 853.22 | 223.36 | 444.16 | 366.32 | 66.79 | -5.84 | 0.994 |
| 114.00 | -7.02 | -9.11 | 0.00 | -303.66 | 0.00 | 303.66 | 838.71 | 216.72 | 418.15 | 349.29 | 71.84 | -6.24 | 0.879 |
| 115.00 | -6.91 | -8.95 | 0.00 | -294.55 | 0.00 | 294.55 | 834.98 | 215.06 | 411.77 | 345.05 | 73.16 | -6.36 | 0.864 |
| 120.00 | -6.50 | -8.65 | 0.00 | -249.81 | 0.00 | 249.81 | 815.69 | 206.75 | 380.60 | 323.94 | 80.13 | -6.97 | 0.781 |
| 125.00 | -6.11 | -8.36 | 0.00 | -206.54 | 0.00 | 206.54 | 795.37 | 198.45 | 350.66 | 303.07 | 87.72 | -7.53 | 0.691 |
| 130.00 | -5.74 | -8.06 | 0.00 | -164.75 | 0.00 | 164.75 | 774.00 | 190.15 | 321.94 | 282.47 | 95.87 | -8.05 | 0.592 |
| 135.00 | -5.39 | -7.76 | 0.00 | -124.45 | 0.00 | 124.45 | 751.60 | 181.85 | 294.45 | 262.19 | 104.52 | -8.52 | 0.484 |
| 140.00 | -5.07 | -7.46 | 0.00 | -85.64 | 0.00 | 85.64 | 728.15 | 173.54 | 268.19 | 242.29 | 113.62 | -8.90 | 0.362 |
| 145.00 | -4.78 | -7.19 | 0.00 | -48.33 | 0.00 | 48.33 | 694.02 | 165.24 | 243.15 | 219.76 | 123.07 | -9.18 | 0.229 |
| 149.00 | -1.43 | -4.17 | 0.00 | -19.58 | 0.00 | 19.58 | 666.12 | 158.60 | 224.01 | 202.35 | 130.79 | -9.31 | 0.100 |
| 150.00 | 0.00 | -3.88 | 0.00 | -15.41 | 0.00 | 15.41 | 659.15 | 156.94 | 219.34 | 198.11 | 132.73 | -9.33 | 0.078 |

| | | |
|-------------------------------|----------------------------------|---------------|
| Load Case: 0.9D + 1.0W | 121 mph with No Ice (Reduced DL) | 27 Iterations |
| Gust Response Factor :1.10 | | |
| Dead Load Factor :0.90 | | |
| Wind Load Factor :1.00 | | |

Applied Segment Forces Summary

| Seg Elev (ft) | Description | Shaft Forces | | Discrete Forces | | | Linear Forces | | Sum of Forces | | | | |
|---------------|------------------|--------------|----------------|-----------------|--------------------|-------------------|----------------|--------------|----------------|--------------|----------------|--------------------|----------------|
| | | Wind FX (lb) | Dead Load (lb) | Wind FX (lb) | Torsion MY (lb-ft) | Moment MZ (lb-ft) | Dead Load (lb) | Wind FX (lb) | Dead Load (lb) | Wind FX (lb) | Dead Load (lb) | Torsion MY (lb-ft) | Moment MZ (lb) |
| 0.00 | | 256.6 | 0.0 | | | | | 0.0 | 0.0 | 256.6 | 0.0 | 0.0 | 0.0 |
| 5.00 | | 507.8 | 677.0 | | | | | 107.2 | 467.4 | 615.0 | 1,144.4 | 0.0 | 0.0 |
| 10.00 | | 496.9 | 662.5 | | | | | 107.2 | 523.1 | 604.1 | 1,185.6 | 0.0 | 0.0 |
| 15.00 | | 486.0 | 648.0 | | | | | 107.2 | 523.1 | 593.3 | 1,171.1 | 0.0 | 0.0 |
| 20.00 | | 475.2 | 633.5 | | | | | 107.2 | 523.1 | 582.4 | 1,156.6 | 0.0 | 0.0 |
| 25.00 | | 464.3 | 619.0 | | | | | 107.2 | 523.1 | 571.5 | 1,142.1 | 0.0 | 0.0 |
| 30.00 | | 297.7 | 604.5 | | | | | 107.2 | 523.1 | 405.0 | 1,127.7 | 0.0 | 0.0 |
| 31.50 | Bot - Section 2 | 232.5 | 178.5 | | | | | 32.4 | 156.9 | 264.9 | 335.5 | 0.0 | 0.0 |
| 35.00 | | 195.6 | 761.9 | | | | | 77.4 | 366.2 | 273.0 | 1,128.0 | 0.0 | 0.0 |
| 35.67 | Top - Section 1 | 237.8 | 143.6 | | | | | 15.0 | 69.8 | 252.7 | 213.4 | 0.0 | 0.0 |
| 40.00 | | 446.7 | 424.2 | | | | | 99.4 | 453.4 | 546.0 | 877.5 | 0.0 | 0.0 |
| 45.00 | | 264.6 | 478.2 | | | | | 118.5 | 523.1 | 383.1 | 1,001.3 | 0.0 | 0.0 |
| 45.50 | Reinf. Top Reinf | 242.0 | 47.2 | | | | | 12.1 | 52.3 | 254.0 | 99.5 | 0.0 | 0.0 |
| 50.00 | | 460.4 | 418.9 | | | | | 110.3 | 470.8 | 570.7 | 889.7 | 0.0 | 0.0 |
| 55.00 | | 485.1 | 454.0 | | | | | 125.9 | 523.1 | 611.0 | 977.1 | 0.0 | 0.0 |
| 60.00 | | 484.0 | 441.9 | | | | | 129.2 | 523.1 | 613.3 | 965.1 | 0.0 | 0.0 |
| 65.00 | | 481.7 | 429.9 | | | | | 132.3 | 523.1 | 614.0 | 953.0 | 0.0 | 0.0 |
| 70.00 | Bot - Section 3 | 410.1 | 417.8 | | | | | 135.3 | 523.1 | 545.4 | 940.9 | 0.0 | 0.0 |
| 73.50 | Top - Section 2 | 242.5 | 518.3 | | | | | 96.4 | 366.2 | 338.9 | 884.5 | 0.0 | 0.0 |
| 75.00 | | 312.6 | 98.4 | | | | | 41.7 | 156.9 | 354.3 | 255.4 | 0.0 | 0.0 |
| 80.00 | | 477.2 | 321.8 | | | | | 140.7 | 523.1 | 617.9 | 845.0 | 0.0 | 0.0 |
| 85.00 | | 470.8 | 312.2 | | | | | 143.3 | 523.1 | 614.1 | 835.3 | 0.0 | 0.0 |
| 90.00 | | 463.7 | 302.5 | | | | | 145.7 | 523.1 | 609.4 | 825.7 | 0.0 | 0.0 |
| 95.00 | | 455.8 | 292.9 | | | | | 147.3 | 523.1 | 603.1 | 816.0 | 0.0 | 0.0 |
| 100.00 | | 229.4 | 283.2 | | | | | 148.4 | 523.1 | 377.8 | 806.3 | 0.0 | 0.0 |
| 100.08 | Reinf. Top | 221.4 | 4.5 | | | | | 2.4 | 8.4 | 223.7 | 12.8 | 0.0 | 0.0 |
| 105.00 | | 434.4 | 269.1 | | | | | 147.0 | 219.0 | 581.4 | 488.1 | 0.0 | 0.0 |
| 110.00 | Top - Section 3 | 350.8 | 263.9 | | | | | 150.5 | 155.1 | 501.3 | 419.0 | 0.0 | 0.0 |
| 114.00 | Appurtenance(s) | 167.4 | 153.6 | 2,724.0 | 0.0 | 6,750.7 | 1,294.6 | 0.0 | 110.6 | 2,891.4 | 1,558.8 | 0.0 | 0.0 |
| 115.00 | | 196.3 | 37.7 | | | | | 0.0 | 17.6 | 196.3 | 55.3 | 0.0 | 0.0 |
| 120.00 | | 321.8 | 184.0 | | | | | 0.0 | 88.2 | 321.8 | 272.2 | 0.0 | 0.0 |
| 125.00 | | 312.6 | 176.8 | | | | | 0.0 | 88.2 | 312.6 | 264.9 | 0.0 | 0.0 |
| 130.00 | | 303.0 | 169.5 | | | | | 0.0 | 88.2 | 303.0 | 257.7 | 0.0 | 0.0 |
| 135.00 | | 293.1 | 162.3 | | | | | 0.0 | 88.2 | 293.1 | 250.4 | 0.0 | 0.0 |
| 140.00 | | 282.8 | 155.0 | | | | | 0.0 | 88.2 | 282.8 | 243.2 | 0.0 | 0.0 |
| 145.00 | | 245.9 | 147.8 | | | | | 0.0 | 88.2 | 245.9 | 236.0 | 0.0 | 0.0 |
| 149.00 | Appurtenance(s) | 133.3 | 113.0 | 2,313.4 | 0.0 | 0.0 | 2,655.0 | 0.0 | 70.5 | 2,446.8 | 2,838.5 | 0.0 | 0.0 |
| 150.00 | Appurtenance(s) | 26.2 | 27.5 | 3,852.8 | 0.0 | 15,411.2 | 1,519.1 | 0.0 | 17.6 | 3,879.0 | 1,564.3 | 0.0 | 0.0 |
| Totals: | | | | | | | | | | 24,550.6 | 29,037.9 | 0.00 | 0.00 |

Load Case: 0.9D + 1.0W

121 mph with No Ice (Reduced DL)

27 Iterations

Gust Response Factor :1.10

Dead Load Factor :0.90

Wind Load Factor :1.00

Calculated Forces

| Seg Elev (ft) | Pu FY (-) (kips) | Vu FX (-) (kips) | Tu MY (ft-kips) | Mu MZ (ft-kips) | Mu MX (ft-kips) | Resultant Moment (ft-kips) | phi Pn (kips) | phi Vn (kips) | phi Tn (ft-kips) | phi Mn (ft-kips) | Total Deflect (in) | Rotation (deg) | Ratio |
|---------------|------------------|------------------|-----------------|-----------------|-----------------|----------------------------|---------------|---------------|------------------|------------------|--------------------|----------------|-------|
| 0.00 | -28.98 | -24.36 | 0.00 | -2,403.41 | 0.00 | 2,403.41 | 3,157.17 | 784.20 | 2,737.77 | 2,376.61 | 0.00 | 0.00 | 0.633 |
| 5.00 | -27.73 | -23.87 | 0.00 | -2,281.60 | 0.00 | 2,281.60 | 3,114.35 | 767.59 | 2,623.10 | 2,294.24 | 0.14 | -0.26 | 0.616 |
| 10.00 | -26.44 | -23.38 | 0.00 | -2,162.24 | 0.00 | 2,162.24 | 3,070.50 | 750.99 | 2,510.88 | 2,212.51 | 0.56 | -0.53 | 0.598 |
| 15.00 | -25.17 | -22.89 | 0.00 | -2,045.34 | 0.00 | 2,045.34 | 3,025.61 | 734.38 | 2,401.12 | 2,131.45 | 1.25 | -0.79 | 0.580 |
| 20.00 | -23.92 | -22.40 | 0.00 | -1,930.88 | 0.00 | 1,930.88 | 2,979.67 | 717.78 | 2,293.81 | 2,051.12 | 2.22 | -1.06 | 0.562 |
| 25.00 | -22.69 | -21.91 | 0.00 | -1,818.88 | 0.00 | 1,818.88 | 2,932.70 | 701.17 | 2,188.95 | 1,971.58 | 3.47 | -1.32 | 0.543 |
| 30.00 | -21.51 | -21.54 | 0.00 | -1,709.33 | 0.00 | 1,709.33 | 2,875.19 | 684.57 | 2,086.54 | 1,886.63 | 4.99 | -1.58 | 0.526 |
| 31.50 | -21.13 | -21.31 | 0.00 | -1,677.02 | 0.00 | 1,677.02 | 2,854.27 | 679.59 | 2,056.30 | 1,859.12 | 5.50 | -1.66 | 0.522 |
| 35.00 | -19.97 | -21.05 | 0.00 | -1,602.42 | 0.00 | 1,602.42 | 2,805.46 | 667.97 | 1,986.59 | 1,795.71 | 6.79 | -1.84 | 0.504 |
| 35.67 | -19.72 | -20.83 | 0.00 | -1,588.39 | 0.00 | 1,588.39 | 2,248.06 | 566.93 | 1,717.05 | 1,468.68 | 7.05 | -1.88 | 0.578 |
| 40.00 | -18.78 | -20.33 | 0.00 | -1,498.13 | 0.00 | 1,498.13 | 2,218.58 | 554.94 | 1,645.20 | 1,418.47 | 8.86 | -2.10 | 0.557 |
| 45.00 | -17.74 | -19.96 | 0.00 | -1,396.46 | 0.00 | 1,396.46 | 2,183.59 | 541.11 | 1,564.21 | 1,360.95 | 11.20 | -2.37 | 0.532 |
| 45.50 | -17.60 | -19.74 | 0.00 | -1,386.48 | 0.00 | 1,386.48 | 2,180.04 | 539.72 | 1,556.22 | 1,355.22 | 11.45 | -2.40 | 0.529 |
| 45.50 | -17.60 | -19.74 | 0.00 | -1,386.48 | 0.00 | 1,386.48 | 2,180.04 | 539.72 | 1,556.22 | 1,355.22 | 11.45 | -2.40 | 0.529 |
| 50.00 | -16.66 | -19.21 | 0.00 | -1,297.64 | 0.00 | 1,297.64 | 2,147.57 | 527.27 | 1,485.26 | 1,303.92 | 13.82 | -2.64 | 0.507 |
| 55.00 | -15.63 | -18.62 | 0.00 | -1,201.62 | 0.00 | 1,201.62 | 2,110.50 | 513.43 | 1,408.36 | 1,247.44 | 16.72 | -2.90 | 0.481 |
| 60.00 | -14.61 | -18.02 | 0.00 | -1,108.52 | 0.00 | 1,108.52 | 2,072.40 | 499.59 | 1,333.50 | 1,191.56 | 19.90 | -3.15 | 0.456 |
| 65.00 | -13.62 | -17.41 | 0.00 | -1,018.42 | 0.00 | 1,018.42 | 2,033.25 | 485.76 | 1,260.68 | 1,136.32 | 23.33 | -3.41 | 0.430 |
| 70.00 | -12.66 | -16.86 | 0.00 | -931.36 | 0.00 | 931.36 | 1,982.07 | 471.92 | 1,189.91 | 1,075.81 | 27.03 | -3.65 | 0.407 |
| 73.50 | -11.76 | -16.48 | 0.00 | -872.36 | 0.00 | 872.36 | 1,473.95 | 377.73 | 952.77 | 802.29 | 29.77 | -3.82 | 0.452 |
| 75.00 | -11.49 | -16.15 | 0.00 | -847.64 | 0.00 | 847.64 | 1,466.27 | 374.41 | 936.10 | 791.03 | 30.99 | -3.89 | 0.442 |
| 80.00 | -10.62 | -15.52 | 0.00 | -766.91 | 0.00 | 766.91 | 1,439.98 | 363.34 | 881.58 | 753.67 | 35.19 | -4.14 | 0.409 |
| 85.00 | -9.77 | -14.88 | 0.00 | -689.33 | 0.00 | 689.33 | 1,412.66 | 352.27 | 828.70 | 716.63 | 39.65 | -4.37 | 0.377 |
| 90.00 | -8.94 | -14.24 | 0.00 | -614.93 | 0.00 | 614.93 | 1,384.30 | 341.21 | 777.46 | 679.95 | 44.35 | -4.60 | 0.344 |
| 95.00 | -8.13 | -13.60 | 0.00 | -543.72 | 0.00 | 543.72 | 1,354.89 | 330.14 | 727.85 | 643.70 | 49.28 | -4.81 | 0.312 |
| 100.00 | -7.34 | -13.17 | 0.00 | -475.70 | 0.00 | 475.70 | 1,324.45 | 319.07 | 679.87 | 607.91 | 54.42 | -5.01 | 0.280 |
| 100.08 | -7.32 | -12.96 | 0.00 | -474.65 | 0.00 | 474.65 | 1,323.95 | 318.89 | 679.12 | 607.34 | 54.50 | -5.02 | 0.280 |
| 100.08 | -7.32 | -12.96 | 0.00 | -474.65 | 0.00 | 474.65 | 1,323.95 | 318.89 | 679.12 | 607.34 | 54.50 | -5.02 | 0.789 |
| 105.00 | -6.81 | -12.38 | 0.00 | -410.89 | 0.00 | 410.89 | 1,292.97 | 308.00 | 633.54 | 572.65 | 59.77 | -5.20 | 0.724 |
| 110.00 | -6.35 | -11.89 | 0.00 | -348.99 | 0.00 | 348.99 | 1,247.09 | 296.93 | 588.83 | 532.25 | 65.48 | -5.71 | 0.662 |
| 110.00 | -6.35 | -11.89 | 0.00 | -348.99 | 0.00 | 348.99 | 853.22 | 223.36 | 444.16 | 366.32 | 65.48 | -5.71 | 0.963 |
| 114.00 | -5.06 | -8.88 | 0.00 | -294.68 | 0.00 | 294.68 | 838.71 | 216.72 | 418.15 | 349.29 | 70.43 | -6.10 | 0.851 |
| 115.00 | -4.97 | -8.71 | 0.00 | -285.81 | 0.00 | 285.81 | 834.98 | 215.06 | 411.77 | 345.05 | 71.71 | -6.22 | 0.836 |
| 120.00 | -4.65 | -8.40 | 0.00 | -242.28 | 0.00 | 242.28 | 815.69 | 206.75 | 380.60 | 323.94 | 78.53 | -6.81 | 0.755 |
| 125.00 | -4.35 | -8.10 | 0.00 | -200.27 | 0.00 | 200.27 | 795.37 | 198.45 | 350.66 | 303.07 | 85.94 | -7.36 | 0.668 |
| 130.00 | -4.07 | -7.80 | 0.00 | -159.77 | 0.00 | 159.77 | 774.00 | 190.15 | 321.94 | 282.47 | 93.90 | -7.86 | 0.573 |
| 135.00 | -3.81 | -7.50 | 0.00 | -120.78 | 0.00 | 120.78 | 751.60 | 181.85 | 294.45 | 262.19 | 102.35 | -8.31 | 0.467 |
| 140.00 | -3.57 | -7.21 | 0.00 | -83.27 | 0.00 | 83.27 | 728.15 | 173.54 | 268.19 | 242.29 | 111.23 | -8.68 | 0.350 |
| 145.00 | -3.36 | -6.94 | 0.00 | -47.24 | 0.00 | 47.24 | 694.02 | 165.24 | 243.15 | 219.76 | 120.44 | -8.96 | 0.222 |
| 149.00 | -0.93 | -4.08 | 0.00 | -19.49 | 0.00 | 19.49 | 666.12 | 158.60 | 224.01 | 202.35 | 127.98 | -9.09 | 0.098 |
| 150.00 | 0.00 | -3.88 | 0.00 | -15.41 | 0.00 | 15.41 | 659.15 | 156.94 | 219.34 | 198.11 | 129.87 | -9.10 | 0.078 |

| | | |
|----------------------------------------|--------------------------------|-----------------------------|
| Load Case: 1.2D + 1.0Di + 1.0Wi | 49 mph with 0.85 in Radial Ice | 25 Iterations |
| Gust Response Factor :1.10 | Ice Dead Load Factor :1.00 | |
| Dead Load Factor :1.20 | | Ice Importance Factor :1.00 |
| Wind Load Factor :1.00 | | |

Applied Segment Forces Summary

| Seg Elev (ft) | Description | Shaft Forces | | Discrete Forces | | | Linear Forces | | Sum of Forces | | | | | |
|---------------|------------------|--------------|----------------|-----------------|--------------------|-------------------|----------------|--------------|----------------|--------------|----------------|--------------------|----------------|--|
| | | Wind FX (lb) | Dead Load (lb) | Wind FX (lb) | Torsion MY (lb-ft) | Moment MZ (lb-ft) | Dead Load (lb) | Wind FX (lb) | Dead Load (lb) | Wind FX (lb) | Dead Load (lb) | Torsion MY (lb-ft) | Moment MZ (lb) | |
| 0.00 | | 43.5 | 0.0 | | | | | 0.0 | 0.0 | 43.5 | 0.0 | 0.0 | 0.0 | |
| 5.00 | | 86.5 | 1,061.1 | | | | | 0.0 | 657.9 | 86.5 | 1,719.1 | 0.0 | 0.0 | |
| 10.00 | | 85.4 | 1,056.8 | | | | | 0.0 | 736.6 | 85.4 | 1,793.4 | 0.0 | 0.0 | |
| 15.00 | | 84.1 | 1,042.9 | | | | | 0.0 | 738.8 | 84.1 | 1,781.7 | 0.0 | 0.0 | |
| 20.00 | | 82.8 | 1,025.8 | | | | | 0.0 | 740.4 | 82.8 | 1,766.1 | 0.0 | 0.0 | |
| 25.00 | | 81.5 | 1,007.0 | | | | | 0.0 | 741.6 | 81.5 | 1,748.6 | 0.0 | 0.0 | |
| 30.00 | | 52.5 | 987.2 | | | | | 0.0 | 742.5 | 52.5 | 1,729.7 | 0.0 | 0.0 | |
| 31.50 | Bot - Section 2 | 41.2 | 292.6 | | | | | 0.0 | 222.9 | 41.2 | 515.6 | 0.0 | 0.0 | |
| 35.00 | | 34.8 | 1,144.5 | | | | | 0.0 | 520.4 | 34.8 | 1,664.9 | 0.0 | 0.0 | |
| 35.67 | Top - Section 1 | 42.3 | 216.1 | | | | | 0.0 | 99.2 | 42.3 | 315.3 | 0.0 | 0.0 | |
| 40.00 | | 79.8 | 723.2 | | | | | 0.0 | 644.9 | 79.8 | 1,368.1 | 0.0 | 0.0 | |
| 45.00 | | 47.4 | 817.2 | | | | | 0.0 | 744.7 | 47.4 | 1,562.0 | 0.0 | 0.0 | |
| 45.50 | Reinf. Top Reinf | 43.7 | 80.9 | | | | | 0.0 | 74.5 | 43.7 | 155.4 | 0.0 | 0.0 | |
| 50.00 | | 83.6 | 718.2 | | | | | 0.0 | 670.8 | 83.6 | 1,389.0 | 0.0 | 0.0 | |
| 55.00 | | 88.8 | 779.9 | | | | | 0.0 | 745.9 | 88.8 | 1,525.8 | 0.0 | 0.0 | |
| 60.00 | | 89.3 | 760.9 | | | | | 0.0 | 746.3 | 89.3 | 1,507.2 | 0.0 | 0.0 | |
| 65.00 | | 89.7 | 741.7 | | | | | 7.5 | 746.8 | 97.2 | 1,488.5 | 0.0 | 0.0 | |
| 70.00 | Bot - Section 3 | 77.0 | 722.3 | | | | | 15.0 | 747.2 | 92.0 | 1,469.5 | 0.0 | 0.0 | |
| 73.50 | Top - Section 2 | 45.7 | 807.3 | | | | | 13.8 | 523.3 | 59.5 | 1,330.6 | 0.0 | 0.0 | |
| 75.00 | | 59.2 | 180.8 | | | | | 5.8 | 224.3 | 65.0 | 405.1 | 0.0 | 0.0 | |
| 80.00 | | 91.0 | 590.3 | | | | | 22.5 | 748.0 | 113.6 | 1,338.3 | 0.0 | 0.0 | |
| 85.00 | | 90.8 | 573.8 | | | | | 26.9 | 748.3 | 117.7 | 1,322.1 | 0.0 | 0.0 | |
| 90.00 | | 90.4 | 557.1 | | | | | 30.9 | 748.7 | 121.3 | 1,305.7 | 0.0 | 0.0 | |
| 95.00 | | 89.3 | 540.3 | | | | | 34.6 | 749.0 | 123.9 | 1,289.3 | 0.0 | 0.0 | |
| 100.00 | | 44.9 | 523.4 | | | | | 38.1 | 749.3 | 83.0 | 1,272.7 | 0.0 | 0.0 | |
| 100.08 | Reinf. Top | 43.4 | 8.3 | | | | | 0.6 | 12.0 | 44.0 | 20.3 | 0.0 | 0.0 | |
| 105.00 | | 85.1 | 498.3 | | | | | 40.6 | 343.2 | 125.8 | 841.5 | 0.0 | 0.0 | |
| 110.00 | Top - Section 3 | 72.5 | 489.5 | | | | | 8.9 | 217.3 | 81.3 | 706.8 | 0.0 | 0.0 | |
| 114.00 | Appurtenance(s) | 37.4 | 312.2 | 556.9 | 0.0 | 1,331.2 | 2,937.2 | 0.0 | 147.5 | 594.3 | 3,396.9 | 0.0 | 0.0 | |
| 115.00 | | 44.0 | 77.0 | | | | | 0.0 | 23.5 | 44.0 | 100.5 | 0.0 | 0.0 | |
| 120.00 | | 72.3 | 374.4 | | | | | 0.0 | 117.5 | 72.3 | 492.0 | 0.0 | 0.0 | |
| 125.00 | | 70.6 | 360.4 | | | | | 0.0 | 117.5 | 70.6 | 477.9 | 0.0 | 0.0 | |
| 130.00 | | 68.7 | 346.3 | | | | | 0.0 | 117.5 | 68.7 | 463.9 | 0.0 | 0.0 | |
| 135.00 | | 66.7 | 332.2 | | | | | 0.0 | 117.5 | 66.7 | 449.7 | 0.0 | 0.0 | |
| 140.00 | | 64.7 | 318.0 | | | | | 0.0 | 117.5 | 64.7 | 435.6 | 0.0 | 0.0 | |
| 145.00 | | 56.6 | 303.8 | | | | | 0.0 | 117.5 | 56.6 | 421.3 | 0.0 | 0.0 | |
| 149.00 | Appurtenance(s) | 30.8 | 233.1 | 512.5 | 0.0 | 0.0 | 4,161.3 | 0.0 | 94.0 | 543.3 | 4,488.5 | 0.0 | 0.0 | |
| 150.00 | Appurtenance(s) | 6.1 | 57.2 | 722.8 | 0.0 | 2,891.4 | 3,820.0 | 0.0 | 23.5 | 728.9 | 3,900.7 | 0.0 | 0.0 | |
| | | | | | | | Totals: | | 4,501.87 | 47,959.2 | 0.00 | 0.00 | | |

Load Case: 1.2D + 1.0Di + 1.0Wi

49 mph with 0.85 in Radial Ice

25 Iterations

Gust Response Factor :1.10

Ice Dead Load Factor :1.00

Dead Load Factor :1.20

Ice Importance Factor :1.00

Wind Load Factor :1.00

Calculated Forces

| Seg Elev (ft) | Pu FY (-) (kips) | Vu FX (-) (kips) | Tu MY (ft-kips) | Mu MZ (ft-kips) | Mu MX (ft-kips) | Resultant Moment (ft-kips) | phi Pn (kips) | phi Vn (kips) | phi Tn (ft-kips) | phi Mn (ft-kips) | Total Deflect (in) | Rotation (deg) | Ratio |
|---------------|------------------|------------------|-----------------|-----------------|-----------------|----------------------------|---------------|---------------|------------------|------------------|--------------------|----------------|-------|
| 0.00 | -47.96 | -4.48 | 0.00 | -492.11 | 0.00 | 492.11 | 3,157.17 | 784.20 | 2,737.77 | 2,376.61 | 0.00 | 0.00 | 0.139 |
| 5.00 | -46.23 | -4.44 | 0.00 | -469.71 | 0.00 | 469.71 | 3,114.35 | 767.59 | 2,623.10 | 2,294.24 | 0.03 | -0.05 | 0.136 |
| 10.00 | -44.44 | -4.39 | 0.00 | -447.52 | 0.00 | 447.52 | 3,070.50 | 750.99 | 2,510.88 | 2,212.51 | 0.11 | -0.11 | 0.132 |
| 15.00 | -42.65 | -4.34 | 0.00 | -425.57 | 0.00 | 425.57 | 3,025.61 | 734.38 | 2,401.12 | 2,131.45 | 0.26 | -0.16 | 0.129 |
| 20.00 | -40.88 | -4.29 | 0.00 | -403.85 | 0.00 | 403.85 | 2,979.67 | 717.78 | 2,293.81 | 2,051.12 | 0.46 | -0.22 | 0.125 |
| 25.00 | -39.13 | -4.24 | 0.00 | -382.38 | 0.00 | 382.38 | 2,932.70 | 701.17 | 2,188.95 | 1,971.58 | 0.72 | -0.27 | 0.122 |
| 30.00 | -37.40 | -4.20 | 0.00 | -361.16 | 0.00 | 361.16 | 2,875.19 | 684.57 | 2,086.54 | 1,886.63 | 1.03 | -0.33 | 0.119 |
| 31.50 | -36.88 | -4.18 | 0.00 | -354.85 | 0.00 | 354.85 | 2,854.27 | 679.59 | 2,056.30 | 1,859.12 | 1.14 | -0.35 | 0.118 |
| 35.00 | -35.21 | -4.15 | 0.00 | -340.23 | 0.00 | 340.23 | 2,805.46 | 667.97 | 1,986.59 | 1,795.71 | 1.41 | -0.38 | 0.114 |
| 35.67 | -34.90 | -4.12 | 0.00 | -337.46 | 0.00 | 337.46 | 2,248.06 | 566.93 | 1,717.05 | 1,468.68 | 1.46 | -0.39 | 0.131 |
| 40.00 | -33.52 | -4.06 | 0.00 | -319.61 | 0.00 | 319.61 | 2,218.58 | 554.94 | 1,645.20 | 1,418.47 | 1.84 | -0.44 | 0.127 |
| 45.00 | -31.96 | -4.02 | 0.00 | -299.31 | 0.00 | 299.31 | 2,183.59 | 541.11 | 1,564.21 | 1,360.95 | 2.33 | -0.50 | 0.122 |
| 45.50 | -31.80 | -3.99 | 0.00 | -297.30 | 0.00 | 297.30 | 2,180.04 | 539.72 | 1,556.22 | 1,355.22 | 2.38 | -0.50 | 0.121 |
| 45.50 | -31.80 | -3.99 | 0.00 | -297.30 | 0.00 | 297.30 | 2,180.04 | 539.72 | 1,556.22 | 1,355.22 | 2.38 | -0.50 | 0.121 |
| 50.00 | -30.41 | -3.92 | 0.00 | -279.35 | 0.00 | 279.35 | 2,147.57 | 527.27 | 1,485.26 | 1,303.92 | 2.88 | -0.55 | 0.116 |
| 55.00 | -28.88 | -3.85 | 0.00 | -259.74 | 0.00 | 259.74 | 2,110.50 | 513.43 | 1,408.36 | 1,247.44 | 3.49 | -0.61 | 0.111 |
| 60.00 | -27.37 | -3.77 | 0.00 | -240.52 | 0.00 | 240.52 | 2,072.40 | 499.59 | 1,333.50 | 1,191.56 | 4.16 | -0.67 | 0.106 |
| 65.00 | -25.88 | -3.67 | 0.00 | -221.69 | 0.00 | 221.69 | 2,033.25 | 485.76 | 1,260.68 | 1,136.32 | 4.89 | -0.72 | 0.100 |
| 70.00 | -24.41 | -3.58 | 0.00 | -203.32 | 0.00 | 203.32 | 1,982.07 | 471.92 | 1,189.91 | 1,075.81 | 5.67 | -0.77 | 0.095 |
| 73.50 | -23.08 | -3.52 | 0.00 | -190.78 | 0.00 | 190.78 | 1,473.95 | 377.73 | 952.77 | 802.29 | 6.25 | -0.81 | 0.106 |
| 75.00 | -22.67 | -3.46 | 0.00 | -185.50 | 0.00 | 185.50 | 1,466.27 | 374.41 | 936.10 | 791.03 | 6.51 | -0.83 | 0.104 |
| 80.00 | -21.34 | -3.34 | 0.00 | -168.21 | 0.00 | 168.21 | 1,439.98 | 363.34 | 881.58 | 753.67 | 7.41 | -0.88 | 0.096 |
| 85.00 | -20.01 | -3.22 | 0.00 | -151.49 | 0.00 | 151.49 | 1,412.66 | 352.27 | 828.70 | 716.63 | 8.36 | -0.93 | 0.089 |
| 90.00 | -18.71 | -3.10 | 0.00 | -135.37 | 0.00 | 135.37 | 1,384.30 | 341.21 | 777.46 | 679.95 | 9.36 | -0.98 | 0.082 |
| 95.00 | -17.42 | -2.96 | 0.00 | -119.89 | 0.00 | 119.89 | 1,354.89 | 330.14 | 727.85 | 643.70 | 10.41 | -1.03 | 0.074 |
| 100.00 | -16.14 | -2.86 | 0.00 | -105.07 | 0.00 | 105.07 | 1,324.45 | 319.07 | 679.87 | 607.91 | 11.52 | -1.07 | 0.067 |
| 100.08 | -16.12 | -2.83 | 0.00 | -104.84 | 0.00 | 104.84 | 1,323.95 | 318.89 | 679.12 | 607.34 | 11.53 | -1.07 | 0.067 |
| 100.08 | -16.12 | -2.83 | 0.00 | -104.84 | 0.00 | 104.84 | 1,323.95 | 318.89 | 679.12 | 607.34 | 11.53 | -1.07 | 0.185 |
| 105.00 | -15.28 | -2.70 | 0.00 | -90.94 | 0.00 | 90.94 | 1,292.97 | 308.00 | 633.54 | 572.65 | 12.66 | -1.11 | 0.171 |
| 110.00 | -14.57 | -2.63 | 0.00 | -77.42 | 0.00 | 77.42 | 1,247.09 | 296.93 | 588.83 | 532.25 | 13.89 | -1.23 | 0.157 |
| 110.00 | -14.57 | -2.63 | 0.00 | -77.42 | 0.00 | 77.42 | 853.22 | 223.36 | 444.16 | 366.32 | 13.89 | -1.23 | 0.229 |
| 114.00 | -11.19 | -1.98 | 0.00 | -65.55 | 0.00 | 65.55 | 838.71 | 216.72 | 418.15 | 349.29 | 14.96 | -1.31 | 0.201 |
| 115.00 | -11.09 | -1.94 | 0.00 | -63.58 | 0.00 | 63.58 | 834.98 | 215.06 | 411.77 | 345.05 | 15.23 | -1.34 | 0.198 |
| 120.00 | -10.59 | -1.88 | 0.00 | -53.86 | 0.00 | 53.86 | 815.69 | 206.75 | 380.60 | 323.94 | 16.71 | -1.47 | 0.179 |
| 125.00 | -10.11 | -1.82 | 0.00 | -44.44 | 0.00 | 44.44 | 795.37 | 198.45 | 350.66 | 303.07 | 18.32 | -1.59 | 0.159 |
| 130.00 | -9.65 | -1.76 | 0.00 | -35.34 | 0.00 | 35.34 | 774.00 | 190.15 | 321.94 | 282.47 | 20.05 | -1.71 | 0.138 |
| 135.00 | -9.20 | -1.69 | 0.00 | -26.55 | 0.00 | 26.55 | 751.60 | 181.85 | 294.45 | 262.19 | 21.89 | -1.80 | 0.114 |
| 140.00 | -8.76 | -1.62 | 0.00 | -18.10 | 0.00 | 18.10 | 728.15 | 173.54 | 268.19 | 242.29 | 23.82 | -1.89 | 0.087 |
| 145.00 | -8.34 | -1.56 | 0.00 | -9.99 | 0.00 | 9.99 | 694.02 | 165.24 | 243.15 | 219.76 | 25.83 | -1.94 | 0.058 |
| 149.00 | -3.87 | -0.86 | 0.00 | -3.75 | 0.00 | 3.75 | 666.12 | 158.60 | 224.01 | 202.35 | 27.47 | -1.97 | 0.024 |
| 150.00 | 0.00 | -0.73 | 0.00 | -2.89 | 0.00 | 2.89 | 659.15 | 156.94 | 219.34 | 198.11 | 27.88 | -1.97 | 0.015 |

Load Case: 1.0D + 1.0W

Serviceability 60 mph

25 Iterations

Gust Response Factor :1.10

Dead Load Factor :1.00

Wind Load Factor :1.00

Applied Segment Forces Summary

| Seg Elev (ft) | Description | Shaft Forces | | Discrete Forces | | | Linear Forces | | Sum of Forces | | | | |
|---------------|------------------|--------------|----------------|-----------------|--------------------|-------------------|----------------|--------------|----------------|--------------|----------------|--------------------|----------------|
| | | Wind FX (lb) | Dead Load (lb) | Wind FX (lb) | Torsion MY (lb-ft) | Moment MZ (lb-ft) | Dead Load (lb) | Wind FX (lb) | Dead Load (lb) | Wind FX (lb) | Dead Load (lb) | Torsion MY (lb-ft) | Moment MZ (lb) |
| 0.00 | | 56.6 | 0.0 | | | | | 0.0 | 0.0 | 56.6 | 0.0 | 0.0 | 0.0 |
| 5.00 | | 112.0 | 752.2 | | | | | 23.6 | 519.3 | 135.6 | 1,271.5 | 0.0 | 0.0 |
| 10.00 | | 109.6 | 736.1 | | | | | 23.6 | 581.2 | 133.2 | 1,317.3 | 0.0 | 0.0 |
| 15.00 | | 107.2 | 720.0 | | | | | 23.6 | 581.2 | 130.8 | 1,301.2 | 0.0 | 0.0 |
| 20.00 | | 104.8 | 703.9 | | | | | 23.6 | 581.2 | 128.4 | 1,285.1 | 0.0 | 0.0 |
| 25.00 | | 102.4 | 687.8 | | | | | 23.6 | 581.2 | 126.0 | 1,269.1 | 0.0 | 0.0 |
| 30.00 | | 65.7 | 671.7 | | | | | 23.6 | 581.2 | 89.3 | 1,253.0 | 0.0 | 0.0 |
| 31.50 | Bot - Section 2 | 51.3 | 198.4 | | | | | 7.1 | 174.4 | 58.4 | 372.7 | 0.0 | 0.0 |
| 35.00 | | 43.1 | 846.5 | | | | | 17.1 | 406.9 | 60.2 | 1,253.4 | 0.0 | 0.0 |
| 35.67 | Top - Section 1 | 52.4 | 159.6 | | | | | 3.3 | 77.5 | 55.7 | 237.1 | 0.0 | 0.0 |
| 40.00 | | 98.5 | 471.3 | | | | | 21.9 | 503.7 | 120.4 | 975.0 | 0.0 | 0.0 |
| 45.00 | | 58.3 | 531.3 | | | | | 26.1 | 581.2 | 84.5 | 1,112.5 | 0.0 | 0.0 |
| 45.50 | Reinf. Top Reinf | 53.4 | 52.4 | | | | | 2.7 | 58.1 | 56.0 | 110.5 | 0.0 | 0.0 |
| 50.00 | | 101.5 | 465.5 | | | | | 24.3 | 523.1 | 125.9 | 988.6 | 0.0 | 0.0 |
| 55.00 | | 107.0 | 504.5 | | | | | 27.8 | 581.2 | 134.7 | 1,085.7 | 0.0 | 0.0 |
| 60.00 | | 106.7 | 491.0 | | | | | 28.5 | 581.2 | 135.2 | 1,072.3 | 0.0 | 0.0 |
| 65.00 | | 106.2 | 477.6 | | | | | 29.2 | 581.2 | 135.4 | 1,058.9 | 0.0 | 0.0 |
| 70.00 | Bot - Section 3 | 90.4 | 464.2 | | | | | 29.8 | 581.2 | 120.3 | 1,045.5 | 0.0 | 0.0 |
| 73.50 | Top - Section 2 | 53.5 | 575.9 | | | | | 21.3 | 406.9 | 74.7 | 982.8 | 0.0 | 0.0 |
| 75.00 | | 68.9 | 109.4 | | | | | 9.2 | 174.4 | 78.1 | 283.7 | 0.0 | 0.0 |
| 80.00 | | 105.2 | 357.6 | | | | | 31.0 | 581.2 | 136.3 | 938.9 | 0.0 | 0.0 |
| 85.00 | | 103.8 | 346.9 | | | | | 31.6 | 581.2 | 135.4 | 928.1 | 0.0 | 0.0 |
| 90.00 | | 102.3 | 336.1 | | | | | 32.1 | 581.2 | 134.4 | 917.4 | 0.0 | 0.0 |
| 95.00 | | 100.5 | 325.4 | | | | | 32.6 | 581.2 | 133.2 | 906.7 | 0.0 | 0.0 |
| 100.00 | | 50.6 | 314.7 | | | | | 33.1 | 581.2 | 83.7 | 895.9 | 0.0 | 0.0 |
| 100.08 | Reinf. Top | 48.8 | 4.9 | | | | | 0.5 | 9.3 | 49.3 | 14.2 | 0.0 | 0.0 |
| 105.00 | | 95.8 | 299.0 | | | | | 33.1 | 243.3 | 128.9 | 542.3 | 0.0 | 0.0 |
| 110.00 | Top - Section 3 | 77.4 | 293.2 | | | | | 34.1 | 172.4 | 111.4 | 465.6 | 0.0 | 0.0 |
| 114.00 | Appurtenance(s) | 36.9 | 170.7 | 600.7 | 0.0 | 1,488.6 | 1,438.4 | 0.0 | 122.9 | 637.6 | 1,732.0 | 0.0 | 0.0 |
| 115.00 | | 43.3 | 41.9 | | | | | 0.0 | 19.6 | 43.3 | 61.4 | 0.0 | 0.0 |
| 120.00 | | 71.0 | 204.5 | | | | | 0.0 | 97.9 | 71.0 | 302.4 | 0.0 | 0.0 |
| 125.00 | | 68.9 | 196.4 | | | | | 0.0 | 97.9 | 68.9 | 294.4 | 0.0 | 0.0 |
| 130.00 | | 66.8 | 188.4 | | | | | 0.0 | 97.9 | 66.8 | 286.3 | 0.0 | 0.0 |
| 135.00 | | 64.6 | 180.3 | | | | | 0.0 | 97.9 | 64.6 | 278.3 | 0.0 | 0.0 |
| 140.00 | | 62.4 | 172.3 | | | | | 0.0 | 97.9 | 62.4 | 270.2 | 0.0 | 0.0 |
| 145.00 | | 54.2 | 164.2 | | | | | 0.0 | 97.9 | 54.2 | 262.2 | 0.0 | 0.0 |
| 149.00 | Appurtenance(s) | 29.4 | 125.6 | 510.1 | 0.0 | 0.0 | 2,950.0 | 0.0 | 78.4 | 539.5 | 3,153.9 | 0.0 | 0.0 |
| 150.00 | Appurtenance(s) | 5.8 | 30.6 | 849.6 | 0.0 | 3,398.4 | 1,687.9 | 0.0 | 19.6 | 855.4 | 1,738.1 | 0.0 | 0.0 |
| Totals: | | | | | | | | | | 5,415.87 | 32,264.3 | 0.00 | 0.00 |

Load Case: 1.0D + 1.0W

Serviceability 60 mph

25 Iterations

Gust Response Factor :1.10

Dead Load Factor :1.00

Wind Load Factor :1.00

Calculated Forces

| Seg Elev (ft) | Pu FY (-) (kips) | Vu FX (-) (kips) | Tu MY (ft-kips) | Mu MZ (ft-kips) | Mu MX (ft-kips) | Resultant Moment (ft-kips) | phi Pn (kips) | phi Vn (kips) | phi Tn (ft-kips) | phi Mn (ft-kips) | Total Deflect (in) | Rotation (deg) | Ratio |
|---------------|------------------|------------------|-----------------|-----------------|-----------------|----------------------------|---------------|---------------|------------------|------------------|--------------------|----------------|-------|
| 0.00 | -32.26 | -5.38 | 0.00 | -534.09 | 0.00 | 534.09 | 3,157.17 | 784.20 | 2,737.77 | 2,376.61 | 0.00 | 0.00 | 0.146 |
| 5.00 | -30.98 | -5.27 | 0.00 | -507.22 | 0.00 | 507.22 | 3,114.35 | 767.59 | 2,623.10 | 2,294.24 | 0.03 | -0.06 | 0.142 |
| 10.00 | -29.66 | -5.17 | 0.00 | -480.86 | 0.00 | 480.86 | 3,070.50 | 750.99 | 2,510.88 | 2,212.51 | 0.12 | -0.12 | 0.138 |
| 15.00 | -28.36 | -5.06 | 0.00 | -455.03 | 0.00 | 455.03 | 3,025.61 | 734.38 | 2,401.12 | 2,131.45 | 0.28 | -0.18 | 0.134 |
| 20.00 | -27.07 | -4.96 | 0.00 | -429.73 | 0.00 | 429.73 | 2,979.67 | 717.78 | 2,293.81 | 2,051.12 | 0.49 | -0.23 | 0.130 |
| 25.00 | -25.79 | -4.85 | 0.00 | -404.95 | 0.00 | 404.95 | 2,932.70 | 701.17 | 2,188.95 | 1,971.58 | 0.77 | -0.29 | 0.126 |
| 30.00 | -24.54 | -4.77 | 0.00 | -380.70 | 0.00 | 380.70 | 2,875.19 | 684.57 | 2,086.54 | 1,886.63 | 1.11 | -0.35 | 0.122 |
| 31.50 | -24.16 | -4.72 | 0.00 | -373.55 | 0.00 | 373.55 | 2,854.27 | 679.59 | 2,056.30 | 1,859.12 | 1.22 | -0.37 | 0.121 |
| 35.00 | -22.91 | -4.66 | 0.00 | -357.02 | 0.00 | 357.02 | 2,805.46 | 667.97 | 1,986.59 | 1,795.71 | 1.51 | -0.41 | 0.116 |
| 35.67 | -22.67 | -4.62 | 0.00 | -353.92 | 0.00 | 353.92 | 2,248.06 | 566.93 | 1,717.05 | 1,468.68 | 1.57 | -0.42 | 0.134 |
| 40.00 | -21.69 | -4.51 | 0.00 | -333.91 | 0.00 | 333.91 | 2,218.58 | 554.94 | 1,645.20 | 1,418.47 | 1.97 | -0.47 | 0.129 |
| 45.00 | -20.58 | -4.43 | 0.00 | -311.37 | 0.00 | 311.37 | 2,183.59 | 541.11 | 1,564.21 | 1,360.95 | 2.49 | -0.53 | 0.123 |
| 45.50 | -20.46 | -4.38 | 0.00 | -309.15 | 0.00 | 309.15 | 2,180.04 | 539.72 | 1,556.22 | 1,355.22 | 2.55 | -0.53 | 0.122 |
| 45.50 | -20.46 | -4.38 | 0.00 | -309.15 | 0.00 | 309.15 | 2,180.04 | 539.72 | 1,556.22 | 1,355.22 | 2.55 | -0.53 | 0.122 |
| 50.00 | -19.47 | -4.26 | 0.00 | -289.44 | 0.00 | 289.44 | 2,147.57 | 527.27 | 1,485.26 | 1,303.92 | 3.08 | -0.59 | 0.117 |
| 55.00 | -18.38 | -4.14 | 0.00 | -268.12 | 0.00 | 268.12 | 2,110.50 | 513.43 | 1,408.36 | 1,247.44 | 3.72 | -0.65 | 0.111 |
| 60.00 | -17.31 | -4.01 | 0.00 | -247.44 | 0.00 | 247.44 | 2,072.40 | 499.59 | 1,333.50 | 1,191.56 | 4.43 | -0.70 | 0.106 |
| 65.00 | -16.25 | -3.87 | 0.00 | -227.41 | 0.00 | 227.41 | 2,033.25 | 485.76 | 1,260.68 | 1,136.32 | 5.20 | -0.76 | 0.100 |
| 70.00 | -15.20 | -3.75 | 0.00 | -208.05 | 0.00 | 208.05 | 1,982.07 | 471.92 | 1,189.91 | 1,075.81 | 6.02 | -0.81 | 0.094 |
| 73.50 | -14.22 | -3.67 | 0.00 | -194.93 | 0.00 | 194.93 | 1,473.95 | 377.73 | 952.77 | 802.29 | 6.63 | -0.85 | 0.105 |
| 75.00 | -13.93 | -3.59 | 0.00 | -189.43 | 0.00 | 189.43 | 1,466.27 | 374.41 | 936.10 | 791.03 | 6.90 | -0.87 | 0.103 |
| 80.00 | -12.99 | -3.46 | 0.00 | -171.46 | 0.00 | 171.46 | 1,439.98 | 363.34 | 881.58 | 753.67 | 7.84 | -0.92 | 0.095 |
| 85.00 | -12.07 | -3.32 | 0.00 | -154.18 | 0.00 | 154.18 | 1,412.66 | 352.27 | 828.70 | 716.63 | 8.83 | -0.98 | 0.087 |
| 90.00 | -11.15 | -3.17 | 0.00 | -137.60 | 0.00 | 137.60 | 1,384.30 | 341.21 | 777.46 | 679.95 | 9.88 | -1.03 | 0.080 |
| 95.00 | -10.24 | -3.03 | 0.00 | -121.73 | 0.00 | 121.73 | 1,354.89 | 330.14 | 727.85 | 643.70 | 10.98 | -1.07 | 0.073 |
| 100.00 | -9.35 | -2.94 | 0.00 | -106.57 | 0.00 | 106.57 | 1,324.45 | 319.07 | 679.87 | 607.91 | 12.13 | -1.12 | 0.065 |
| 100.08 | -9.33 | -2.89 | 0.00 | -106.33 | 0.00 | 106.33 | 1,323.95 | 318.89 | 679.12 | 607.34 | 12.15 | -1.12 | 0.065 |
| 100.08 | -9.33 | -2.89 | 0.00 | -106.33 | 0.00 | 106.33 | 1,323.95 | 318.89 | 679.12 | 607.34 | 12.15 | -1.12 | 0.182 |
| 105.00 | -8.79 | -2.76 | 0.00 | -92.11 | 0.00 | 92.11 | 1,292.97 | 308.00 | 633.54 | 572.65 | 13.32 | -1.16 | 0.168 |
| 110.00 | -8.32 | -2.66 | 0.00 | -78.30 | 0.00 | 78.30 | 1,247.09 | 296.93 | 588.83 | 532.25 | 14.60 | -1.27 | 0.154 |
| 110.00 | -8.32 | -2.66 | 0.00 | -78.30 | 0.00 | 78.30 | 853.22 | 223.36 | 444.16 | 366.32 | 14.60 | -1.27 | 0.224 |
| 114.00 | -6.60 | -1.98 | 0.00 | -66.19 | 0.00 | 66.19 | 838.71 | 216.72 | 418.15 | 349.29 | 15.71 | -1.36 | 0.197 |
| 115.00 | -6.54 | -1.95 | 0.00 | -64.21 | 0.00 | 64.21 | 834.98 | 215.06 | 411.77 | 345.05 | 16.00 | -1.39 | 0.194 |
| 120.00 | -6.23 | -1.88 | 0.00 | -54.46 | 0.00 | 54.46 | 815.69 | 206.75 | 380.60 | 323.94 | 17.52 | -1.52 | 0.176 |
| 125.00 | -5.94 | -1.82 | 0.00 | -45.04 | 0.00 | 45.04 | 795.37 | 198.45 | 350.66 | 303.07 | 19.18 | -1.64 | 0.156 |
| 130.00 | -5.65 | -1.76 | 0.00 | -35.94 | 0.00 | 35.94 | 774.00 | 190.15 | 321.94 | 282.47 | 20.96 | -1.76 | 0.135 |
| 135.00 | -5.37 | -1.69 | 0.00 | -27.16 | 0.00 | 27.16 | 751.60 | 181.85 | 294.45 | 262.19 | 22.86 | -1.86 | 0.111 |
| 140.00 | -5.10 | -1.63 | 0.00 | -18.71 | 0.00 | 18.71 | 728.15 | 173.54 | 268.19 | 242.29 | 24.85 | -1.94 | 0.084 |
| 145.00 | -4.84 | -1.57 | 0.00 | -10.58 | 0.00 | 10.58 | 694.02 | 165.24 | 243.15 | 219.76 | 26.92 | -2.00 | 0.055 |
| 149.00 | -1.71 | -0.92 | 0.00 | -4.31 | 0.00 | 4.31 | 666.12 | 158.60 | 224.01 | 202.35 | 28.62 | -2.03 | 0.024 |
| 150.00 | 0.00 | -0.86 | 0.00 | -3.40 | 0.00 | 3.40 | 659.15 | 156.94 | 219.34 | 198.11 | 29.04 | -2.04 | 0.017 |

Equivalent Lateral Forces Method Analysis

| | |
|--------------------------------------------------------------------------|---------|
| Spectral Response Acceleration for Short Period (S_s): | 0.19 |
| Spectral Response Acceleration at 1.0 Second Period (S_{d1}): | 0.05 |
| Long-Period Transition Period (T_L): | 6 |
| Importance Factor (I_E): | 1.00 |
| Site Coefficient F_a : | 1.60 |
| Site Coefficient F_v : | 2.40 |
| Response Modification Coefficient (R): | 1.50 |
| Design Spectral Response Acceleration at Short Period (S_{ds}): | 0.20 |
| Design Spectral Response Acceleration at 1.0 Second Period (S_{d1}): | 0.09 |
| Seismic Response Coefficient (C_s): | 0.03 |
| Upper Limit C_s | 0.03 |
| Lower Limit C_s | 0.03 |
| Period based on Rayleigh Method (sec): | 2.73 |
| Redundancy Factor (p): | 1.00 |
| Seismic Force Distribution Exponent (k): | 2.00 |
| Total Unfactored Dead Load: | 32.26 k |
| Seismic Base Shear (E): | 0.97 k |

Load Case 1.2D + 1.0Ev + 1.0Eh

Seismic

| Segment | Height Above Base (ft) | Weight (lb) | W_z (lb-ft) | C_{vx} | Horizontal Force (lb) | Vertical Force (lb) |
|---------|------------------------|-------------|---------------|----------|-----------------------|---------------------|
| 37 | 149.50 | 50 | 1,122 | 0.005 | 5 | 62 |
| 36 | 147.00 | 204 | 4,407 | 0.018 | 18 | 253 |
| 35 | 142.50 | 262 | 5,324 | 0.022 | 22 | 325 |
| 34 | 137.50 | 270 | 5,109 | 0.021 | 21 | 335 |
| 33 | 132.50 | 278 | 4,885 | 0.020 | 20 | 345 |
| 32 | 127.50 | 286 | 4,654 | 0.019 | 19 | 355 |
| 31 | 122.50 | 294 | 4,417 | 0.018 | 18 | 365 |
| 30 | 117.50 | 302 | 4,175 | 0.017 | 17 | 375 |
| 29 | 114.50 | 61 | 806 | 0.003 | 3 | 76 |
| 28 | 112.00 | 294 | 3,683 | 0.015 | 15 | 364 |
| 27 | 107.50 | 466 | 5,381 | 0.022 | 22 | 577 |
| 26 | 102.54 | 542 | 5,702 | 0.024 | 23 | 672 |
| 25 | 100.04 | 14 | 143 | 0.001 | 1 | 18 |
| 24 | 97.50 | 896 | 8,517 | 0.036 | 34 | 1,111 |
| 23 | 92.50 | 907 | 7,758 | 0.032 | 31 | 1,124 |
| 22 | 87.50 | 917 | 7,024 | 0.029 | 28 | 1,137 |
| 21 | 82.50 | 928 | 6,317 | 0.026 | 26 | 1,151 |
| 20 | 77.50 | 939 | 5,639 | 0.024 | 23 | 1,164 |
| 19 | 74.25 | 284 | 1,564 | 0.007 | 6 | 352 |
| 18 | 71.75 | 983 | 5,060 | 0.021 | 20 | 1,219 |
| 17 | 67.50 | 1,045 | 4,763 | 0.020 | 19 | 1,296 |
| 16 | 62.50 | 1,059 | 4,136 | 0.017 | 17 | 1,313 |
| 15 | 57.50 | 1,072 | 3,545 | 0.015 | 14 | 1,330 |
| 14 | 52.50 | 1,086 | 2,992 | 0.012 | 12 | 1,346 |
| 13 | 47.75 | 989 | 2,254 | 0.009 | 9 | 1,226 |

| | | | | | | |
|----------------------|--------|--------|---------|-------|-----|--------|
| 12 | 45.25 | 111 | 226 | 0.001 | 1 | 137 |
| 11 | 42.50 | 1,113 | 2,010 | 0.008 | 8 | 1,379 |
| 10 | 37.83 | 975 | 1,396 | 0.006 | 6 | 1,209 |
| 9 | 35.33 | 237 | 296 | 0.001 | 1 | 294 |
| 8 | 33.25 | 1,253 | 1,386 | 0.006 | 6 | 1,554 |
| 7 | 30.75 | 373 | 352 | 0.001 | 1 | 462 |
| 6 | 27.50 | 1,253 | 948 | 0.004 | 4 | 1,554 |
| 5 | 22.50 | 1,269 | 642 | 0.003 | 3 | 1,573 |
| 4 | 17.50 | 1,285 | 394 | 0.002 | 2 | 1,593 |
| 3 | 12.50 | 1,301 | 203 | 0.001 | 1 | 1,613 |
| 2 | 7.50 | 1,317 | 74 | 0.000 | 0 | 1,633 |
| 1 | 2.50 | 1,272 | 8 | 0.000 | 0 | 1,577 |
| Powerwave Allgon LGP | 150.00 | 33 | 743 | 0.003 | 3 | 41 |
| Powerwave Allgon LGP | 150.00 | 85 | 1,904 | 0.008 | 8 | 105 |
| Raycap DC6-48-60-18- | 150.00 | 20 | 450 | 0.002 | 2 | 25 |
| Raycap DC6-48-60-18- | 150.00 | 20 | 450 | 0.002 | 2 | 25 |
| Ericsson RRUS 8843 B | 150.00 | 216 | 4,860 | 0.020 | 20 | 268 |
| Ericsson RRUS 4478 B | 150.00 | 180 | 4,043 | 0.017 | 16 | 223 |
| Ericsson RRUS 4415 B | 150.00 | 138 | 3,105 | 0.013 | 13 | 171 |
| Ericsson RRUS 4449 B | 150.00 | 213 | 4,793 | 0.020 | 19 | 264 |
| Powerwave Allgon 777 | 150.00 | 105 | 2,363 | 0.010 | 10 | 130 |
| CCI HPA65R-BU8A | 150.00 | 162 | 3,645 | 0.015 | 15 | 201 |
| CCI DMP65R-BU8D | 150.00 | 287 | 6,460 | 0.027 | 26 | 356 |
| CCI OPA65R-BU8D | 150.00 | 229 | 5,164 | 0.022 | 21 | 285 |
| Flat Side Arm | 149.00 | 450 | 9,990 | 0.042 | 40 | 558 |
| Platform w/ HRs w/ S | 149.00 | 2,500 | 55,503 | 0.232 | 224 | 3,100 |
| RFS FD9R6004/2C-3L (| 114.00 | 19 | 242 | 0.001 | 1 | 23 |
| Alcatel-Lucent RRH2X | 114.00 | 129 | 1,676 | 0.007 | 7 | 160 |
| Alcatel-Lucent RRH2X | 114.00 | 165 | 2,144 | 0.009 | 9 | 205 |
| Amphenol Antel BXA-7 | 114.00 | 36 | 468 | 0.002 | 2 | 45 |
| RFS DB-T1-6Z-8AB-OZ | 114.00 | 44 | 572 | 0.002 | 2 | 55 |
| Amphenol Antel BXA-7 | 114.00 | 51 | 663 | 0.003 | 3 | 63 |
| Round T-Arms | 114.00 | 750 | 9,747 | 0.041 | 39 | 930 |
| Commscope HBXX-6517D | 114.00 | 245 | 3,181 | 0.013 | 13 | 304 |
| | | 32,264 | 239,475 | 1.000 | 968 | 40,004 |

Load Case 0.9D - 1.0Ev + 1.0Eh

Seismic (Reduced DL)

| Segment | Height Above Base (ft) | Weight (lb) | W _z (lb-ft) | C _{vx} | Horizontal Force (lb) | Vertical Force (lb) |
|---------|------------------------|-------------|------------------------|-----------------|-----------------------|---------------------|
| 37 | 149.50 | 50 | 1,122 | 0.005 | 5 | 43 |
| 36 | 147.00 | 204 | 4,407 | 0.018 | 18 | 175 |
| 35 | 142.50 | 262 | 5,324 | 0.022 | 22 | 225 |
| 34 | 137.50 | 270 | 5,109 | 0.021 | 21 | 232 |
| 33 | 132.50 | 278 | 4,885 | 0.020 | 20 | 239 |
| 32 | 127.50 | 286 | 4,654 | 0.019 | 19 | 246 |
| 31 | 122.50 | 294 | 4,417 | 0.018 | 18 | 253 |
| 30 | 117.50 | 302 | 4,175 | 0.017 | 17 | 260 |
| 29 | 114.50 | 61 | 806 | 0.003 | 3 | 53 |
| 28 | 112.00 | 294 | 3,683 | 0.015 | 15 | 253 |
| 27 | 107.50 | 466 | 5,381 | 0.022 | 22 | 400 |
| 26 | 102.54 | 542 | 5,702 | 0.024 | 23 | 466 |
| 25 | 100.04 | 14 | 143 | 0.001 | 1 | 12 |
| 24 | 97.50 | 896 | 8,517 | 0.036 | 34 | 771 |
| 23 | 92.50 | 907 | 7,758 | 0.032 | 31 | 780 |
| 22 | 87.50 | 917 | 7,024 | 0.029 | 28 | 789 |
| 21 | 82.50 | 928 | 6,317 | 0.026 | 26 | 798 |
| 20 | 77.50 | 939 | 5,639 | 0.024 | 23 | 808 |
| 19 | 74.25 | 284 | 1,564 | 0.007 | 6 | 244 |
| 18 | 71.75 | 983 | 5,060 | 0.021 | 20 | 845 |
| 17 | 67.50 | 1,045 | 4,763 | 0.020 | 19 | 899 |

Site Number: 302498-post mod

Code: ANSI/TIA-222-H

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Site Name: Plainfield CT 6, CT

Engineering Number: 13211930_C4_10

2/16/2021 12:54:47 PM

Customer: AT&T MOBILITY

| | | | | | | |
|----------------------|--------|--------|---------|-------|-----|--------|
| 16 | 62.50 | 1,059 | 4,136 | 0.017 | 17 | 911 |
| 15 | 57.50 | 1,072 | 3,545 | 0.015 | 14 | 922 |
| 14 | 52.50 | 1,086 | 2,992 | 0.012 | 12 | 934 |
| 13 | 47.75 | 989 | 2,254 | 0.009 | 9 | 850 |
| 12 | 45.25 | 111 | 226 | 0.001 | 1 | 95 |
| 11 | 42.50 | 1,113 | 2,010 | 0.008 | 8 | 957 |
| 10 | 37.83 | 975 | 1,396 | 0.006 | 6 | 839 |
| 9 | 35.33 | 237 | 296 | 0.001 | 1 | 204 |
| 8 | 33.25 | 1,253 | 1,386 | 0.006 | 6 | 1,078 |
| 7 | 30.75 | 373 | 352 | 0.001 | 1 | 321 |
| 6 | 27.50 | 1,253 | 948 | 0.004 | 4 | 1,078 |
| 5 | 22.50 | 1,269 | 642 | 0.003 | 3 | 1,092 |
| 4 | 17.50 | 1,285 | 394 | 0.002 | 2 | 1,105 |
| 3 | 12.50 | 1,301 | 203 | 0.001 | 1 | 1,119 |
| 2 | 7.50 | 1,317 | 74 | 0.000 | 0 | 1,133 |
| 1 | 2.50 | 1,272 | 8 | 0.000 | 0 | 1,094 |
| Powerwave Allgon LGP | 150.00 | 33 | 743 | 0.003 | 3 | 28 |
| Powerwave Allgon LGP | 150.00 | 85 | 1,904 | 0.008 | 8 | 73 |
| Raycap DC6-48-60-18- | 150.00 | 20 | 450 | 0.002 | 2 | 17 |
| Raycap DC6-48-60-18- | 150.00 | 20 | 450 | 0.002 | 2 | 17 |
| Ericsson RRUS 8843 B | 150.00 | 216 | 4,860 | 0.020 | 20 | 186 |
| Ericsson RRUS 4478 B | 150.00 | 180 | 4,043 | 0.017 | 16 | 155 |
| Ericsson RRUS 4415 B | 150.00 | 138 | 3,105 | 0.013 | 13 | 119 |
| Ericsson RRUS 4449 B | 150.00 | 213 | 4,793 | 0.020 | 19 | 183 |
| Powerwave Allgon 777 | 150.00 | 105 | 2,363 | 0.010 | 10 | 90 |
| CCI HPA65R-BU8A | 150.00 | 162 | 3,645 | 0.015 | 15 | 139 |
| CCI DMP65R-BU8D | 150.00 | 287 | 6,460 | 0.027 | 26 | 247 |
| CCI OPA65R-BU8D | 150.00 | 229 | 5,164 | 0.022 | 21 | 197 |
| Flat Side Arm | 149.00 | 450 | 9,990 | 0.042 | 40 | 387 |
| Platform w/ HRs w/ S | 149.00 | 2,500 | 55,503 | 0.232 | 224 | 2,150 |
| RFS FD9R6004/2C-3L (| 114.00 | 19 | 242 | 0.001 | 1 | 16 |
| Alcatel-Lucent RRH2X | 114.00 | 129 | 1,676 | 0.007 | 7 | 111 |
| Alcatel-Lucent RRH2X | 114.00 | 165 | 2,144 | 0.009 | 9 | 142 |
| Amphenol Antel BXA-7 | 114.00 | 36 | 468 | 0.002 | 2 | 31 |
| RFS DB-T1-6Z-8AB-0Z | 114.00 | 44 | 572 | 0.002 | 2 | 38 |
| Amphenol Antel BXA-7 | 114.00 | 51 | 663 | 0.003 | 3 | 44 |
| Round T-Arms | 114.00 | 750 | 9,747 | 0.041 | 39 | 645 |
| Commscope HBXX-6517D | 114.00 | 245 | 3,181 | 0.013 | 13 | 211 |
| | | 32,264 | 239,475 | 1.000 | 968 | 27,751 |

Load Case 1.2D + 1.0Ev + 1.0Eh

Seismic

Calculated Forces

| Seg Elev (ft) | Pu FY (-) (kips) | Vu FX (-) (kips) | Tu MY (ft-kips) | Mu MZ (ft-kips) | Mu MX (ft-kips) | Resultant Moment (ft-kips) | phi Pn (kips) | phi Vn (kips) | phi Tn (ft-kips) | phi Mn (ft-kips) | Total Deflect (in) | Rotation (deg) | Ratio |
|---------------|------------------|------------------|-----------------|-----------------|-----------------|----------------------------|---------------|---------------|------------------|------------------|--------------------|----------------|-------|
| 0.00 | -38.43 | -0.97 | 0.00 | -122.43 | 0.00 | 122.43 | 3,157.17 | 784.20 | 2,737.77 | 2,376.61 | 0.00 | 0.00 | 0.040 |
| 5.00 | -36.79 | -0.98 | 0.00 | -117.57 | 0.00 | 117.57 | 3,114.35 | 767.59 | 2,623.10 | 2,294.24 | 0.01 | -0.01 | 0.040 |
| 10.00 | -35.18 | -0.99 | 0.00 | -112.67 | 0.00 | 112.67 | 3,070.50 | 750.99 | 2,510.88 | 2,212.51 | 0.03 | -0.03 | 0.039 |
| 15.00 | -33.59 | -0.99 | 0.00 | -107.74 | 0.00 | 107.74 | 3,025.61 | 734.38 | 2,401.12 | 2,131.45 | 0.06 | -0.04 | 0.038 |
| 20.00 | -32.01 | -1.00 | 0.00 | -102.77 | 0.00 | 102.77 | 2,979.67 | 717.78 | 2,293.81 | 2,051.12 | 0.11 | -0.05 | 0.037 |
| 25.00 | -30.46 | -1.00 | 0.00 | -97.79 | 0.00 | 97.79 | 2,932.70 | 701.17 | 2,188.95 | 1,971.58 | 0.18 | -0.07 | 0.036 |
| 30.00 | -30.00 | -1.00 | 0.00 | -92.80 | 0.00 | 92.80 | 2,875.19 | 684.57 | 2,086.54 | 1,886.63 | 0.26 | -0.08 | 0.035 |
| 31.50 | -28.44 | -1.00 | 0.00 | -91.29 | 0.00 | 91.29 | 2,854.27 | 679.59 | 2,056.30 | 1,859.12 | 0.29 | -0.09 | 0.035 |
| 35.00 | -28.15 | -1.00 | 0.00 | -87.80 | 0.00 | 87.80 | 2,805.46 | 667.97 | 1,986.59 | 1,795.71 | 0.35 | -0.10 | 0.034 |
| 35.67 | -26.94 | -0.99 | 0.00 | -87.14 | 0.00 | 87.14 | 2,248.06 | 566.93 | 1,717.05 | 1,468.68 | 0.37 | -0.10 | 0.039 |
| 40.00 | -25.56 | -0.99 | 0.00 | -82.83 | 0.00 | 82.83 | 2,218.58 | 554.94 | 1,645.20 | 1,418.47 | 0.46 | -0.11 | 0.038 |
| 45.00 | -25.42 | -0.99 | 0.00 | -77.88 | 0.00 | 77.88 | 2,183.59 | 541.11 | 1,564.21 | 1,360.95 | 0.59 | -0.13 | 0.036 |
| 45.50 | -24.20 | -0.98 | 0.00 | -77.39 | 0.00 | 77.39 | 2,180.04 | 539.72 | 1,556.22 | 1,355.22 | 0.60 | -0.13 | 0.036 |
| 45.50 | -24.20 | -0.98 | 0.00 | -77.39 | 0.00 | 77.39 | 2,180.04 | 539.72 | 1,556.22 | 1,355.22 | 0.60 | -0.13 | 0.036 |
| 50.00 | -22.85 | -0.97 | 0.00 | -72.96 | 0.00 | 72.96 | 2,147.57 | 527.27 | 1,485.26 | 1,303.92 | 0.73 | -0.14 | 0.035 |
| 55.00 | -21.52 | -0.96 | 0.00 | -68.09 | 0.00 | 68.09 | 2,110.50 | 513.43 | 1,408.36 | 1,247.44 | 0.89 | -0.16 | 0.033 |
| 60.00 | -20.21 | -0.95 | 0.00 | -63.29 | 0.00 | 63.29 | 2,072.40 | 499.59 | 1,333.50 | 1,191.56 | 1.06 | -0.17 | 0.031 |
| 65.00 | -18.91 | -0.93 | 0.00 | -58.56 | 0.00 | 58.56 | 2,033.25 | 485.76 | 1,260.68 | 1,136.32 | 1.24 | -0.19 | 0.030 |
| 70.00 | -17.69 | -0.91 | 0.00 | -53.92 | 0.00 | 53.92 | 1,982.07 | 471.92 | 1,189.91 | 1,075.81 | 1.45 | -0.20 | 0.028 |
| 73.50 | -17.34 | -0.90 | 0.00 | -50.75 | 0.00 | 50.75 | 1,473.95 | 377.73 | 952.77 | 802.29 | 1.60 | -0.21 | 0.032 |
| 75.00 | -16.18 | -0.88 | 0.00 | -49.40 | 0.00 | 49.40 | 1,466.27 | 374.41 | 936.10 | 791.03 | 1.66 | -0.21 | 0.031 |
| 80.00 | -15.03 | -0.85 | 0.00 | -45.01 | 0.00 | 45.01 | 1,439.98 | 363.34 | 881.58 | 753.67 | 1.89 | -0.23 | 0.029 |
| 85.00 | -13.89 | -0.82 | 0.00 | -40.76 | 0.00 | 40.76 | 1,412.66 | 352.27 | 828.70 | 716.63 | 2.14 | -0.24 | 0.027 |
| 90.00 | -12.76 | -0.79 | 0.00 | -36.66 | 0.00 | 36.66 | 1,384.30 | 341.21 | 777.46 | 679.95 | 2.40 | -0.26 | 0.025 |
| 95.00 | -11.65 | -0.75 | 0.00 | -32.72 | 0.00 | 32.72 | 1,354.89 | 330.14 | 727.85 | 643.70 | 2.67 | -0.27 | 0.023 |
| 100.00 | -11.64 | -0.75 | 0.00 | -28.97 | 0.00 | 28.97 | 1,324.45 | 319.07 | 679.87 | 607.91 | 2.96 | -0.28 | 0.021 |
| 100.08 | -10.96 | -0.73 | 0.00 | -28.91 | 0.00 | 28.91 | 1,323.95 | 318.89 | 679.12 | 607.34 | 2.97 | -0.28 | 0.021 |
| 100.08 | -10.96 | -0.73 | 0.00 | -28.91 | 0.00 | 28.91 | 1,323.95 | 318.89 | 679.12 | 607.34 | 2.97 | -0.28 | 0.056 |
| 105.00 | -10.39 | -0.71 | 0.00 | -25.34 | 0.00 | 25.34 | 1,292.97 | 308.00 | 633.54 | 572.65 | 3.26 | -0.29 | 0.052 |
| 110.00 | -10.02 | -0.69 | 0.00 | -21.81 | 0.00 | 21.81 | 1,247.09 | 296.93 | 588.83 | 532.25 | 3.58 | -0.32 | 0.049 |
| 110.00 | -10.02 | -0.69 | 0.00 | -21.81 | 0.00 | 21.81 | 853.22 | 223.36 | 444.16 | 366.32 | 3.58 | -0.32 | 0.071 |
| 114.00 | -8.16 | -0.61 | 0.00 | -19.04 | 0.00 | 19.04 | 838.71 | 216.72 | 418.15 | 349.29 | 3.87 | -0.35 | 0.064 |
| 115.00 | -7.79 | -0.59 | 0.00 | -18.43 | 0.00 | 18.43 | 834.98 | 215.06 | 411.77 | 345.05 | 3.94 | -0.36 | 0.063 |
| 120.00 | -7.42 | -0.57 | 0.00 | -15.49 | 0.00 | 15.49 | 815.69 | 206.75 | 380.60 | 323.94 | 4.33 | -0.39 | 0.057 |
| 125.00 | -7.07 | -0.56 | 0.00 | -12.61 | 0.00 | 12.61 | 795.37 | 198.45 | 350.66 | 303.07 | 4.76 | -0.43 | 0.051 |
| 130.00 | -6.72 | -0.54 | 0.00 | -9.83 | 0.00 | 9.83 | 774.00 | 190.15 | 321.94 | 282.47 | 5.23 | -0.46 | 0.043 |
| 135.00 | -6.39 | -0.52 | 0.00 | -7.14 | 0.00 | 7.14 | 751.60 | 181.85 | 294.45 | 262.19 | 5.72 | -0.49 | 0.036 |
| 140.00 | -6.06 | -0.50 | 0.00 | -4.55 | 0.00 | 4.55 | 728.15 | 173.54 | 268.19 | 242.29 | 6.25 | -0.51 | 0.027 |
| 145.00 | -5.81 | -0.48 | 0.00 | -2.08 | 0.00 | 2.08 | 694.02 | 165.24 | 243.15 | 219.76 | 6.79 | -0.52 | 0.018 |
| 149.00 | -2.09 | -0.17 | 0.00 | -0.17 | 0.00 | 0.17 | 666.12 | 158.60 | 224.01 | 202.35 | 7.23 | -0.53 | 0.004 |
| 150.00 | 0.00 | -0.15 | 0.00 | 0.00 | 0.00 | 0.00 | 659.15 | 156.94 | 219.34 | 198.11 | 7.34 | -0.53 | 0.000 |

Load Case 0.9D - 1.0Ev + 1.0Eh

Seismic (Reduced DL)

Calculated Forces

| Seg Elev (ft) | Pu FY (-) (kips) | Vu FX (-) (kips) | Tu MY (ft-kips) | Mu MZ (ft-kips) | Mu MX (ft-kips) | Resultant Moment (ft-kips) | phi Pn (kips) | phi Vn (kips) | phi Tn (ft-kips) | phi Mn (ft-kips) | Total Deflect (in) | Rotation (deg) | Ratio |
|---------------|------------------|------------------|-----------------|-----------------|-----------------|----------------------------|---------------|---------------|------------------|------------------|--------------------|----------------|-------|
| 0.00 | -26.66 | -0.97 | 0.00 | -120.02 | 0.00 | 120.02 | 3,157.17 | 784.20 | 2,737.77 | 2,376.61 | 0.00 | 0.00 | 0.037 |
| 5.00 | -25.52 | -0.98 | 0.00 | -115.17 | 0.00 | 115.17 | 3,114.35 | 767.59 | 2,623.10 | 2,294.24 | 0.01 | -0.01 | 0.036 |
| 10.00 | -24.40 | -0.98 | 0.00 | -110.29 | 0.00 | 110.29 | 3,070.50 | 750.99 | 2,510.88 | 2,212.51 | 0.03 | -0.03 | 0.036 |
| 15.00 | -23.30 | -0.98 | 0.00 | -105.39 | 0.00 | 105.39 | 3,025.61 | 734.38 | 2,401.12 | 2,131.45 | 0.06 | -0.04 | 0.035 |
| 20.00 | -22.21 | -0.99 | 0.00 | -100.47 | 0.00 | 100.47 | 2,979.67 | 717.78 | 2,293.81 | 2,051.12 | 0.11 | -0.05 | 0.034 |
| 25.00 | -21.13 | -0.99 | 0.00 | -95.54 | 0.00 | 95.54 | 2,932.70 | 701.17 | 2,188.95 | 1,971.58 | 0.18 | -0.07 | 0.033 |
| 30.00 | -20.81 | -0.99 | 0.00 | -90.61 | 0.00 | 90.61 | 2,875.19 | 684.57 | 2,086.54 | 1,886.63 | 0.25 | -0.08 | 0.032 |
| 31.50 | -19.73 | -0.98 | 0.00 | -89.13 | 0.00 | 89.13 | 2,854.27 | 679.59 | 2,056.30 | 1,859.12 | 0.28 | -0.09 | 0.032 |
| 35.00 | -19.53 | -0.98 | 0.00 | -85.69 | 0.00 | 85.69 | 2,805.46 | 667.97 | 1,986.59 | 1,795.71 | 0.35 | -0.10 | 0.031 |
| 35.67 | -18.69 | -0.98 | 0.00 | -85.04 | 0.00 | 85.04 | 2,248.06 | 566.93 | 1,717.05 | 1,468.68 | 0.36 | -0.10 | 0.036 |
| 40.00 | -17.73 | -0.97 | 0.00 | -80.80 | 0.00 | 80.80 | 2,218.58 | 554.94 | 1,645.20 | 1,418.47 | 0.45 | -0.11 | 0.035 |
| 45.00 | -17.64 | -0.97 | 0.00 | -75.94 | 0.00 | 75.94 | 2,183.59 | 541.11 | 1,564.21 | 1,360.95 | 0.58 | -0.12 | 0.034 |
| 45.50 | -16.78 | -0.96 | 0.00 | -75.45 | 0.00 | 75.45 | 2,180.04 | 539.72 | 1,556.22 | 1,355.22 | 0.59 | -0.13 | 0.033 |
| 45.50 | -16.78 | -0.96 | 0.00 | -75.45 | 0.00 | 75.45 | 2,180.04 | 539.72 | 1,556.22 | 1,355.22 | 0.59 | -0.13 | 0.033 |
| 50.00 | -15.85 | -0.95 | 0.00 | -71.11 | 0.00 | 71.11 | 2,147.57 | 527.27 | 1,485.26 | 1,303.92 | 0.71 | -0.14 | 0.032 |
| 55.00 | -14.93 | -0.94 | 0.00 | -66.33 | 0.00 | 66.33 | 2,110.50 | 513.43 | 1,408.36 | 1,247.44 | 0.87 | -0.15 | 0.030 |
| 60.00 | -14.02 | -0.93 | 0.00 | -61.63 | 0.00 | 61.63 | 2,072.40 | 499.59 | 1,333.50 | 1,191.56 | 1.03 | -0.17 | 0.029 |
| 65.00 | -13.12 | -0.91 | 0.00 | -57.00 | 0.00 | 57.00 | 2,033.25 | 485.76 | 1,260.68 | 1,136.32 | 1.22 | -0.18 | 0.028 |
| 70.00 | -12.27 | -0.89 | 0.00 | -52.46 | 0.00 | 52.46 | 1,982.07 | 471.92 | 1,189.91 | 1,075.81 | 1.41 | -0.19 | 0.026 |
| 73.50 | -12.03 | -0.88 | 0.00 | -49.36 | 0.00 | 49.36 | 1,473.95 | 377.73 | 952.77 | 802.29 | 1.56 | -0.20 | 0.030 |
| 75.00 | -11.22 | -0.86 | 0.00 | -48.04 | 0.00 | 48.04 | 1,466.27 | 374.41 | 936.10 | 791.03 | 1.62 | -0.21 | 0.029 |
| 80.00 | -10.42 | -0.83 | 0.00 | -43.76 | 0.00 | 43.76 | 1,439.98 | 363.34 | 881.58 | 753.67 | 1.85 | -0.22 | 0.027 |
| 85.00 | -9.63 | -0.80 | 0.00 | -39.61 | 0.00 | 39.61 | 1,412.66 | 352.27 | 828.70 | 716.63 | 2.09 | -0.24 | 0.025 |
| 90.00 | -8.85 | -0.77 | 0.00 | -35.60 | 0.00 | 35.60 | 1,384.30 | 341.21 | 777.46 | 679.95 | 2.34 | -0.25 | 0.023 |
| 95.00 | -8.08 | -0.73 | 0.00 | -31.76 | 0.00 | 31.76 | 1,354.89 | 330.14 | 727.85 | 643.70 | 2.61 | -0.26 | 0.021 |
| 100.00 | -8.07 | -0.73 | 0.00 | -28.09 | 0.00 | 28.09 | 1,324.45 | 319.07 | 679.87 | 607.91 | 2.89 | -0.27 | 0.019 |
| 100.08 | -7.60 | -0.71 | 0.00 | -28.04 | 0.00 | 28.04 | 1,323.95 | 318.89 | 679.12 | 607.34 | 2.90 | -0.27 | 0.019 |
| 100.08 | -7.60 | -0.71 | 0.00 | -28.04 | 0.00 | 28.04 | 1,323.95 | 318.89 | 679.12 | 607.34 | 2.90 | -0.27 | 0.052 |
| 105.00 | -7.20 | -0.69 | 0.00 | -24.55 | 0.00 | 24.55 | 1,292.97 | 308.00 | 633.54 | 572.65 | 3.18 | -0.28 | 0.048 |
| 110.00 | -6.95 | -0.67 | 0.00 | -21.12 | 0.00 | 21.12 | 1,247.09 | 296.93 | 588.83 | 532.25 | 3.50 | -0.31 | 0.045 |
| 110.00 | -6.95 | -0.67 | 0.00 | -21.12 | 0.00 | 21.12 | 853.22 | 223.36 | 444.16 | 366.32 | 3.50 | -0.31 | 0.066 |
| 114.00 | -5.66 | -0.59 | 0.00 | -18.42 | 0.00 | 18.42 | 838.71 | 216.72 | 418.15 | 349.29 | 3.77 | -0.34 | 0.059 |
| 115.00 | -5.40 | -0.57 | 0.00 | -17.83 | 0.00 | 17.83 | 834.98 | 215.06 | 411.77 | 345.05 | 3.84 | -0.35 | 0.058 |
| 120.00 | -5.15 | -0.56 | 0.00 | -14.96 | 0.00 | 14.96 | 815.69 | 206.75 | 380.60 | 323.94 | 4.23 | -0.38 | 0.053 |
| 125.00 | -4.90 | -0.54 | 0.00 | -12.18 | 0.00 | 12.18 | 795.37 | 198.45 | 350.66 | 303.07 | 4.64 | -0.42 | 0.046 |
| 130.00 | -4.66 | -0.52 | 0.00 | -9.48 | 0.00 | 9.48 | 774.00 | 190.15 | 321.94 | 282.47 | 5.10 | -0.45 | 0.040 |
| 135.00 | -4.43 | -0.50 | 0.00 | -6.88 | 0.00 | 6.88 | 751.60 | 181.85 | 294.45 | 262.19 | 5.58 | -0.47 | 0.032 |
| 140.00 | -4.20 | -0.48 | 0.00 | -4.39 | 0.00 | 4.39 | 728.15 | 173.54 | 268.19 | 242.29 | 6.09 | -0.49 | 0.024 |
| 145.00 | -4.03 | -0.46 | 0.00 | -2.00 | 0.00 | 2.00 | 694.02 | 165.24 | 243.15 | 219.76 | 6.61 | -0.51 | 0.015 |
| 149.00 | -1.45 | -0.17 | 0.00 | -0.17 | 0.00 | 0.17 | 666.12 | 158.60 | 224.01 | 202.35 | 7.04 | -0.51 | 0.003 |
| 150.00 | 0.00 | -0.15 | 0.00 | 0.00 | 0.00 | 0.00 | 659.15 | 156.94 | 219.34 | 198.11 | 7.14 | -0.51 | 0.000 |

Site Number: 302498-post mod
 Site Name: Plainfield CT 6, CT
 Customer: AT&T MOBILITY

Code: ANSI/TIA-222-H
 Engineering Number: 13211930_C4_10

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Analysis Summary

| Load Case | Reactions | | | | | | Max Usage | |
|----------------------|-----------------------|-----------------------|-----------------------|---------------------------|---------------------------|---------------------------|--------------|----------------------|
| | Shear FX (kips) | Shear FZ (kips) | Axial FY (kips) | Moment MX (ft-kips) | Moment MY (ft-kips) | Moment MZ (ft-kips) | Elev (ft) | Interaction Ratio |
| 1.2D + 1.0W | 24.39 | 0.00 | 38.66 | 0.00 | 0.00 | 2440.63 | 110.00 | 0.99 |
| 0.9D + 1.0W | 24.36 | 0.00 | 28.98 | 0.00 | 0.00 | 2403.41 | 110.00 | 0.96 |
| 1.2D + 1.0Di + 1.0Wi | 4.48 | 0.00 | 47.96 | 0.00 | 0.00 | 492.11 | 110.00 | 0.23 |
| 1.2D + 1.0Ev + 1.0Eh | 0.97 | 0.00 | 38.43 | 0.00 | 0.00 | 122.43 | 110.00 | 0.07 |
| 0.9D - 1.0Ev + 1.0Eh | 0.97 | 0.00 | 26.66 | 0.00 | 0.00 | 120.02 | 110.00 | 0.07 |
| 1.0D + 1.0W | 5.38 | 0.00 | 32.26 | 0.00 | 0.00 | 534.09 | 110.00 | 0.22 |

Site Number: 302498-post mod
 Site Name: Plainfield CT 6, CT
 Customer: AT&T MOBILITY

Code: ANSI/TIA-222-H
 Engineering Number: 13211930_C4_10

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Additional Steel Summary

| | | | Intermediate Connectors | | | | Max Member | | |
|----------------|--------------|----------------------------|-------------------------|----------------------|--------------------|-------|------------|-------------|-------|
| Elev From (ft) | Elev To (ft) | Member | VQ/I (lb/in) | Shear Applied (kips) | Shear phiVn (kips) | Ratio | Pu (kip) | phiPn (kip) | Ratio |
| 0.00 | 45.50 | (4) SOL-#20 All Thread Bar | 260.4 | 7.8 | 16.8 | 0.465 | 255.0 | 330.5 | 0.772 |
| 45.50 | 100.08 | (4) SOL-#20 All Thread Bar | 291.8 | 8.8 | 16.8 | 0.521 | 221.9 | 330.5 | 0.671 |

| | | | Upper Termination Connectors | | | | Lower Termination Connectors | | | | | |
|----------------|--------------|----------------------------|------------------------------|--------------|----------|------------|------------------------------|-------------|--------------|----------|------------|-------|
| Elev From (ft) | Elev To (ft) | Member | MQ/I (kips) | phiVn (kips) | Num Reqd | Num Actual | Ratio | MQ/I (kips) | phiVn (kips) | Num Reqd | Num Actual | Ratio |
| 0.00 | 45.50 | (4) SOL-#20 All Thread Bar | 0.0 | 12.0 | 0 | 20 | 0.000 | 0.0 | 12.0 | 0 | 0 | 0.000 |
| 45.50 | 100.08 | (4) SOL-#20 All Thread Bar | 127.1 | 12.0 | 11 | 16 | 0.662 | 0.0 | 12.0 | 0 | 0 | 0.000 |



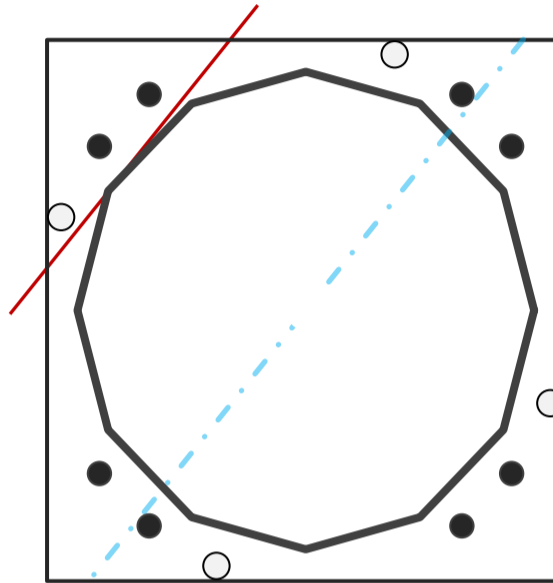
Base Plate & Anchor Rod Analysis

| Pole Dimensions | | |
|--------------------|-------|----|
| Number of Sides | 12 | - |
| Diameter | 37.38 | in |
| Thickness | 3/8 | in |
| Orientation Offset | 0 | ° |

| Base Reactions | | |
|----------------|--------|------|
| Moment, Mu | 2440.6 | k-ft |
| Axial, Pu | 38.7 | k |
| Shear, Vu | 24.4 | k |
| Neutral Axis | 50 | ° |

| Report Capacities | | |
|-------------------|----------|--------|
| Component | Capacity | Result |
| Base Plate | 57% | Pass |
| Anchor Rods | 84% | Pass |
| Dwyidag | 68% | Pass |

| Base Plate | | |
|---------------------------|------------|-------------|
| Shape | Square | - |
| Width | 44 | in |
| Thickness | 2 1/2 | in |
| Grade | A633 Gr. E | |
| Yield Strength, Fy | 60 | ksi |
| Tensile Strength, Fu | 80 | ksi |
| Clip | 0 | in |
| Orientation Offset | 0 | ° |
| Anchor Rod Detail | c | $\eta=0.55$ |
| Clear Distance | N/A | in |
| Applied Moment, Mu | 1194.1 | k |
| Bending Stress, ϕMn | 2085.8 | k |



| Dwyidag Reinforcement | | |
|------------------------|-------|----|
| Quantity | 4 | - |
| Bar Size | #20 | in |
| Diameter, ϕ | 2.5 | in |
| Bracket Type | Angle | - |
| Circle | 44.26 | in |
| Orientation Offset | 70 | ° |
| Applied Force, Pu | 249.0 | k |
| Dwyidag Bar, ϕPn | 368.2 | k |

| Original Anchor Rods | | |
|------------------------|---------|-----|
| Arrangement | Cluster | - |
| Quantity | 8 | - |
| Diameter, ϕ | 2 1/4 | in |
| Bolt Circle | 44 | in |
| Grade | A615-75 | |
| Yield Strength, Fy | 75 | ksi |
| Tensile Strength, Fu | 100 | ksi |
| Spacing | 6.0 | in |
| Orientation Offset | 0 | ° |
| Applied Force, Pu | 203.9 | k |
| Anchor Rods, ϕPn | 243.6 | k |

Flange Plate Analysis

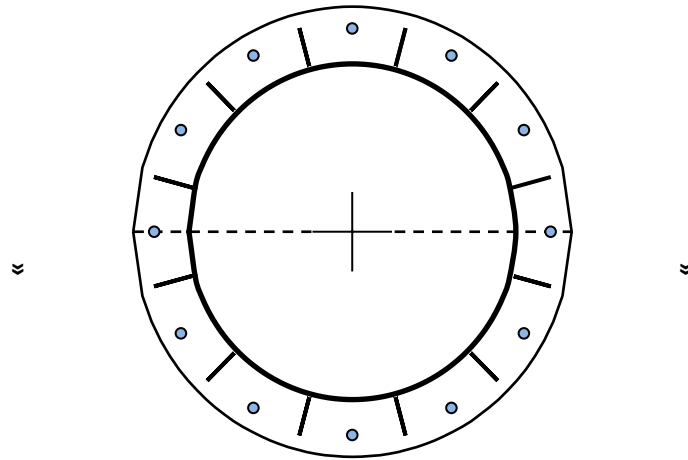
| | | | |
|--------------|---------------------------|---------------|-----------------|
| Flange Plate | Plate Type | Flange | @ 110 ft |
| | Pole Diameter | 21.25 | in |
| | Pole Thickness | 0.1875 | in |
| | Plate Diameter | 28.5 | in |
| | Plate Thickness | 1 | in |
| | Plate Fy | 60 | ksi |
| | Weld Length | 3/16 | in |
| | f _s Resistance | 670.59 | k-in |
| | Applied | 82.52 | k-in |

| | |
|-----------|------------|
| Code Rev. | H |
| Moment | 359.1 k-ft |
| Axial | 8.8 k |

| | |
|----------|---------------|
| Date | 2/16/2021 |
| Engineer | CLJ |
| Site # | 302498 |
| Carrier | AT&T MOBILITY |

| | | | |
|------------|--------------|-----------|-------------|
| Stiffeners | # | 12 | Show |
| | Thickness | 5/8 | in |
| | Length | 3 1/2 | in |
| | Height | 9 | in |
| | Chamfer | 1/4 | in |
| | Offset Angle | 0 | ° |
| | Fy | 50 | ksi |

| | | | |
|---------------------------|---------------------|-----------|-----|
| Bolts | # | 12 | |
| | Bolt Circle | 25.75 | in |
| | (R)adial / (S)quare | R | |
| | Diameter | 1 | in |
| | Hole Diameter | 1 1/8 | in |
| | Type | A490 | |
| | Fy | 130 | ksi |
| | Fu | 150 | ksi |
| f _s Resistance | 68.15 | k | |
| Applied | 55.01 | k | |



| | | | |
|---------------|---|--|--|
| Reinforcement | # | | |
|---------------|---|--|--|

Plate Stress Ratio:
12% Pass

Bolt Stress Ratio:
81% Pass

| | | | |
|-------------|---|--|--|
| Extra Bolts | # | | |
|-------------|---|--|--|

Site Name: Plainfield CT 6, CT
Site Number: 302498
Tower Type: MP
Design Loads (Factored) - Analysis per TIA-222-H Standards

Monolithic Mat & Pier Foundation Analysis

| Foundation Analysis Parameters | | |
|--------------------------------------------|----------|------|
| Design / Analysis / Mapping: | Analysis | - |
| Compression/Leg: | 38.7 | k |
| Uplift/Leg: | 0.0 | k |
| Total Shear: | 24.4 | k |
| Moment: | 2,440.6 | k-ft |
| Tower + Appurtenance Weight: | 38.7 | k |
| Depth to Base of Foundation (l + t - h): | 8 | ft |
| Diameter of Pier (d): | 6 | ft |
| Length of Pier (l): | 5.5 | ft |
| Height of Pier above Ground (h): | 0.5 | ft |
| Width of Pad (W): | 18 | ft |
| Length of Pad (L): | 18 | ft |
| Thickness of Pad (t): | 3 | ft |
| Tower Leg Center to Center: | 0 | ft |
| Number of Tower Legs: | 1 | - |
| Tower Center from Mat Center: | 0 | ft |
| Depth Below Ground Surface to Water Table: | 3.5 | ft |
| Unit Weight of Concrete: | 150 | pcf |
| Unit Weight of Soil Above Water Table: | 136 | pcf |
| Unit Weight of Water: | 62.4 | pcf |
| Unit Weight of Soil Below Water Table: | 73.6 | pcf |
| Friction Angle of Uplift: | 15 | ° |
| Coefficient of Shear Friction: | 0.30 | - |
| Ultimate Compressive Bearing Pressure: | 15,000 | psf |
| Ultimate Passive Pressure on Pad Face: | 1,000 | psf |
| $f_{\text{Soil and Concrete Weight}}$: | 0.9 | - |
| f_{Soil} : | 0.75 | - |

| Foundation Steel Parameters | | |
|----------------------------------|--------|-----------------|
| Shear/Leg (Compression): | 24.4 | k |
| Shear/Leg (Uplift): | 24.4 | k |
| Concrete Strength (f_c): | 3,000 | psi |
| Pad Tension Steel Depth: | 32.38 | in |
| Dead Load Factor: | 0.9 | - |
| f_{Shear} : | 0.75 | - |
| $f_{\text{Flexure / Tension}}$: | 0.9 | - |
| $f_{\text{Compression}}$: | 0.65 | - |
| b: | 0.85 | - |
| Bottom Pad Rebar Size #: | 10 | - |
| # of Bottom Pad Rebar: | 36 | - |
| Pad Bottom Steel Area: | 45.72 | in ² |
| Pad Steel F_y : | 60,000 | psi |
| Top Pad Rebar Size #: | 5 | - |
| # of Top Pad Rebar: | 36 | - |
| Pad Top Steel Area: | 11.16 | in ² |
| Pier Rebar Size #: | 11 | - |
| Pier Steel Area (Single Bar): | 1.56 | in ² |
| # of Pier Rebar: | 52 | - |
| Pier Steel F_y : | 60,000 | psi |
| Pier Cage Diameter: | 63.6 | in |
| Rebar Strain Limit: | 0.008 | - |
| Steel Elastic Modulus: | 29,000 | ksi |
| Tie Rebar Size #: | 4 | - |
| Tie Steel Area (Single Bar): | 0.20 | in ² |
| Tie Spacing: | 12 | in |
| Tie Steel F_y : | 60,000 | psi |
| Clear Cover: | 3 | in |

Overturning Moment Usage

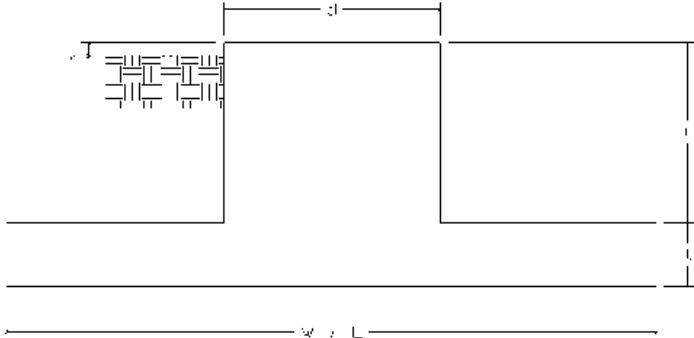
| | | |
|---------------------------------------------------|--------|------|
| Design OTM: | 2647.9 | k-ft |
| Weight of Soil and Concrete OTM Resistance: | 279.2 | k |
| OTM Resistance from Soil and Concrete: | 2513.2 | k-ft |
| OTM Resistance from Tower: | 261.0 | k-ft |
| OTM Resistance from Soil Failure: | 335.8 | k-ft |
| OTM Resistance from Passive Pressure on Pad Face: | 60.8 | k-ft |
| OTM Resistance: | 2794.1 | k-ft |
| Design OTM / OTM Resistance: | 95% | Pass |

Soil Bearing Pressure Usage

| | | |
|-----------------------------------------------------|----------------------|------|
| Net Bearing Pressure: | 8507 | psf |
| Factored Nominal Bearing Pressure: | 11250 | psf |
| Factored Nominal (Net) Bearing Pressure: | 76% | Pass |
| Load Direction Controlling Design Bearing Pressure: | Diagonal to Pad Edge | |

Sliding Factor of Safety

| | | |
|---------------------------------------|-------|------|
| Ultimate Friction Resistance: | 93.4 | k |
| Ultimate Passive Pressure Resistance: | 40.5 | k |
| Total Factored Sliding Resistance: | 100.5 | k |
| Sliding Design / Sliding Resistance: | 24% | Pass |



Pad Strength Capacity

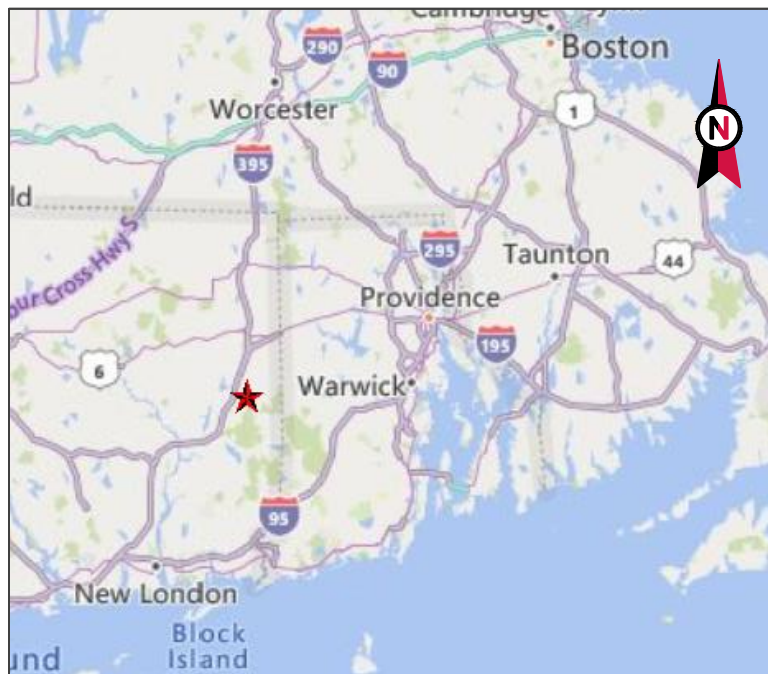
One Way Shear, Flexural Capacity, and Punching Shear

| | | | |
|-------------------------------------------------------|-----------------------------|------|---------------------------------------------------------|
| Factored One Way Shear (V_u): | 252.8 | k | |
| One Way Shear Capacity (fV_c): | 574.5 | k | <i>ACI 318-14 25.5.5.1</i> |
| V_u / fV_c : | 44% | Pass | |
| Load Direction Controlling Shear Capacity: | <i>Parallel to Pad Edge</i> | | |
| Lower Steel Pad Factored Moment (M_u): | 878.4 | k-ft | |
| Lower Steel Pad Moment Capacity (fM_n): | 6640.2 | k-ft | <i>ACI 318-14 22.3.1.1</i> |
| M_u / fM_n : | 13% | Pass | |
| Load Direction Controlling Flexural Capacity: | <i>Diagonal to Pad Edge</i> | | |
| Upper Steel Pad Factored Moment (M_u): | 275.1 | k-ft | |
| Upper Steel Pad Moment Capacity (fM_n): | 1599.9 | k-ft | |
| M_u / fM_n : | 17% | Pass | |
| Lower Pad Flexural Reinforcement Ratio: | 0.0065 | | <i>OK - ACI 318-14 7.6.1.1 & 8.6.1.1</i> |
| Upper Pad Flexural Reinforcement Ratio: | 0.0016 | | <i>OK - ACI 318-14 7.6.1.1 & 8.6.1.1</i> |
| Lower Pad Reinforcement Spacing: | 6.0 | in | <i>OK - ACI 318-14 7.7.2.3, 8.7.2.2, & 24.4.3.3</i> |
| Upper Pad Reinforcement Spacing: | 6.0 | in | <i>OK - ACI 318-14 7.7.2.3, 8.7.2.2, & 24.4.3.3</i> |
| Ultimate Punching Shear Stress, v_u : | 37.40 | psi | <i>ACI 318-14 R8.4.4.2.3</i> |
| Nominal Punching Shear Capacity ($f_c v_c$): | 164.3 | psi | <i>ACI 318-14 22.6.5.2</i> |
| $v_u / f_c v_c$: | 23% | Pass | |
| Pier Moment Pad Flexure Transfer Ratio, γ_f : | 0.60 | | <i>TIA-222-H 9.4.2</i> |
| Moment Transfer Effective Flexural Width, B_{eff} : | 15.00 | ft | <i>TIA-222-H 9.4.2</i> |
| Moment Transfer Through Pad Flexure: | 18538.38 | k-in | <i>TIA-222-H 9.4.2</i> |
| Moment Transfer Flexural Capacity ($fM_{sc,f}$): | 64350.54 | k-in | |
| $g_f M_{sc} / fM_{sc,f}$: | 0% | Pass | |

Pier Strength Capacity

| | | | |
|--------------------------------------------------|---------|------|-------------------------------------------------------|
| Factored Moment in Pier (M_u): | 2574.8 | k-ft | |
| Pier Moment Capacity (fM_n): | 11356.3 | k-ft | |
| M_u / fM_n : | 23% | Pass | |
| Factored Shear in Pier (V_u): | 24.4 | k | |
| Pier Shear Capacity (fV_n): | 422.5 | k | <i>ACI 318-14 22.5.1.1</i> |
| V_u / fV_c : | 6% | Pass | |
| Pier Shear Reinforcement Ratio: | 0.0005 | | <i>OK - No Ties Necessary for Shear - ACI11.5.6.1</i> |
| Factored Tension in Pier (T_u): | 0.0 | k | |
| Pier Tension Capacity (fT_n): | 4380.5 | k | |
| T_u / fT_n : | 0% | Pass | |
| Factored Compression in Pier (P_u): | 38.7 | k | |
| Pier Compression Capacity (fP_n): | 5339.9 | k | <i>ACI 318-14 22.4.2.1</i> |
| P_u / fP_n : | 1% | Pass | |
| Minimum Depth to Develop Vertical Rebar: | 63 | in | <i>ACI 318-14 25.4.2.3</i> |
| Minimum Hook Development Length: | 31 | in | <i>ACI 318-14 25.4.3.1</i> |
| Minimum Mat Thickness / Edge Distance from Pier: | 34.0 | in | |
| Minimum Foundation Depth: | 8.35 | ft | |
| $M_u / f_B M_n + T_u / f_T T_n$: | 23% | Pass | |

EXHIBIT 4

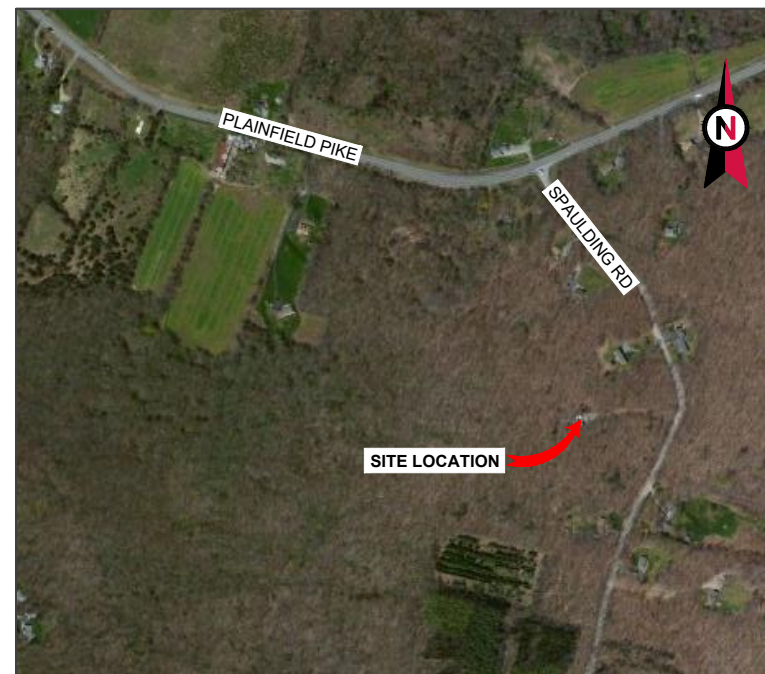


VICINITY MAP



AMERICAN TOWER®

SITE NAME: PLAINFIELD CT 6
 SITE NUMBER: 302498
 ATC PROJECT NUMBER: 13211930_C6_09
 SITE ADDRESS: 45 SPAULDING ROAD
 PLAINFIELD, CT 06374



LOCATION MAP

150 FT MONOPOLE MODIFICATIONS

AMERICAN TOWER®
 A.T. ENGINEERING SERVICE, PLLC
 3500 REGENCY PARKWAY
 SUITE 100
 CARY, NC 27518
 PHONE: (919) 468-0112
 COA: PEC.0001553

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| REV. | DESCRIPTION | BY | DATE |
|------|-------------|-----|----------|
| 0 | FIRST ISSUE | NYG | 02/08/21 |
| | | | |
| | | | |
| | | | |
| | | | |

ATC SITE NUMBER:
 302498
 ATC SITE NAME:
 PLAINFIELD CT 6
 CONNECTICUT
 SITE ADDRESS:
 45 SPAULDING ROAD
 PLAINFIELD, CT 06374



DRAWN BY: NYG
 APPROVED BY: CLJ
 DATE DRAWN: 02/08/21
 ATC JOB NO: 13211930_C6_09

COVER

SHEET NUMBER: **G-001** REVISION: **0**

| PROJECT TEAM | PROJECT DESCRIPTION | SHEET | SHEET TITLE | REV. |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----------------------------------------------|------|
| <p>TOWER OWNER AMERICAN TOWER 10 PRESIDENTAL WAY WOBURN, MA 01801</p> <p>ENGINEERED BY ATC TOWER SERVICES 3500 REGENCY PARKWAY, SUITE 100 CARY, NC 27518</p> <p>CARRIER INFORMATION CARRIER: AT&T MOBILITY CARRIER SITE NAME: MRCTB046850 CARRIER SITE NUMBER: CTL02051</p> | <p>THE MODIFICATIONS PRESENTED ON THESE DRAWINGS ARE BASED ON THE RECOMMENDATIONS OUTLINED IN THE STRUCTURAL ANALYSIS COMPLETED UNDER ENGINEERING PROJECT NUMBER 13211930_C3_11 DATED 01/07/21. SATISFACTORY COMPLETION OF THE WORK INDICATED ON THESE DRAWINGS WILL RESULT IN THE STRUCTURE MEETING THE REQUIREMENTS OF THE SPECIFICATIONS UNDER WHICH THE STRUCTURAL WAS COMPLETED.</p> <p>COMPLIANCE CODE</p> <p>ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNMENT AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.</p> <p>1. ANSI/TIA/EIA: STRUCTURAL STANDARDS (222-H EDITION) 2. INTERNATIONAL BUILDING CODE (2015 IBC) 3. CONNECTICUT STATE BUILDING CODE (2018)</p> <p>PROJECT LOCATION</p> <p>GEOGRAPHIC COORDINATES</p> <p>LATITUDE: 41.67480556 LONGITUDE: -71.8791</p> | G-002 | IBC GENERAL NOTES | 0 |
| | | G-003 | SPECIAL INSPECTION CHECKLIST | 0 |
| | | G-004 | BILL OF MATERIALS | 0 |
| | | C-101 | SITE PLAN | 0 |
| | | S-201 | MODIFICATION PROFILE | 0 |
| | | S-501 | REINFORCEMENT INSTALLATION DETAILS | 0 |
| | | S-502 | REINFORCEMENT INSTALLATION DETAILS (CONT'D) | 0 |
| | | S-503 | #20 STEP BOLT BRACKET INSTALLATION DETAILS | 0 |
| | | S-504 | STIFFENER & FLANGE BOLT INSTALLATION DETAILS | 0 |
| | | Z-501 | STIFFENER FABRICATION DETAILS | 0 |

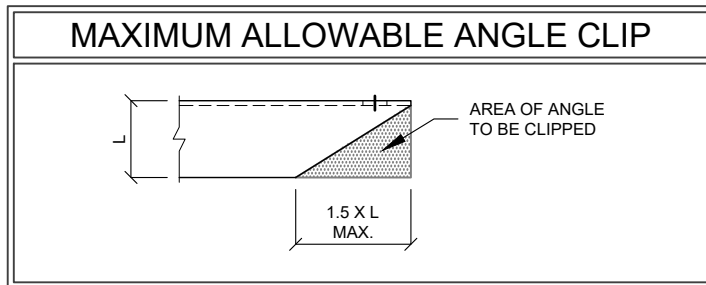


GENERAL

- ALL WORK TO BE COMPLETED PER APPLICABLE LOCAL, STATE, FEDERAL CODES AND ORDINANCES AND COMPLY WITH ATC CONSTRUCTION SPECIFICATIONS FOR WIRELESS TOWER SITES. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND ABIDING BY ALL REQUIRED PERMITS.
- ALL WORK INDICATED ON THESE DRAWINGS SHALL BE PERFORMED BY QUALIFIED CONTRACTORS EXPERIENCED IN TOWER AND FOUNDATION CONSTRUCTION.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD IMMEDIATELY OF ANY INSTALLATION INTERFERENCES. ALL NEW WORK SHALL ACCOMMODATE EXISTING CONDITIONS. DETAILS NOT SPECIFICALLY SHOWN ON THE DRAWINGS SHALL FOLLOW SIMILAR DETAILS FOR THIS JOB.
- ANY SUBSTITUTIONS SHALL CONFORM TO THE REQUIREMENTS OF THESE NOTES AND SPECIFICATIONS, AND SHOULD BE SIMILAR TO THOSE SHOWN. ALL SUBSTITUTIONS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
- ANY MANUFACTURED DESIGN ELEMENTS SHALL CONFORM TO THE REQUIREMENTS OF THESE NOTES AND SPECIFICATIONS AND SHOULD BE SIMILAR TO THOSE SHOWN. THESE DESIGN ELEMENTS MUST BE STAMPED BY AN ENGINEER PROFESSIONALLY REGISTERED IN THE STATE OF THE PROJECT, AND SUBMITTED TO THE ENGINEER OF RECORD FOR APPROVAL PRIOR TO FABRICATION.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH LOCAL CODES AND OSHA SAFETY REGULATIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND EXECUTION OF ALL MISCELLANEOUS SHORING, BRACING, TEMPORARY SUPPORTS, ETC. NECESSARY, PER ANSI/TIA-322 AND ANSI/ASSE A10.48, TO PROVIDE A COMPLETE AND STABLE STRUCTURE AS SHOWN ON THESE DRAWINGS.
- CONTRACTOR'S PROPOSED INSTALLATION SHALL NOT INTERFERE, NOR DENY ACCESS TO, ANY EXISTING OPERATIONAL AND SAFETY EQUIPMENT.

STRUCTURAL STEEL

- ALL DETAILING, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AISC SPECIFICATIONS, LATEST EDITION.
- ALL EXPOSED STRUCTURAL STEEL MEMBERS SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION PER ASTM A123. EXPOSED STEEL HARDWARE AND ANCHOR BOLTS SHALL BE GALVANIZED PER ASTM A153 OR B695.
- ALL U-BOLTS SHALL BE ASTM A36 OR EQUIVALENT, WITH LOCKING DEVICE, UNLESS NOTED OTHERWISE.
- FIELD CUT EDGES, EXCEPT DRILLED HOLES, SHALL BE GROUND SMOOTH.
- ALL FIELD CUT SURFACES, FIELD DRILLED HOLES & GROUND SURFACES WHERE EXISTING PAINT OR GALVANIZATION REMOVAL WAS REQUIRED SHALL BE REPAIRED WITH (2) BRUSHED COATS OF ZRC GALVILITE COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURERS RECOMMENDATIONS.
- ALL STRUCTURAL STEEL EMBEDDED IN THE CONCRETE SHALL BE APPLIED WITH (2) BRUSHED COATS OF POLYGUARD CA-14 MASTIC OR EQUIVALENT. REFER TO THE MANUFACTURER SPECIFICATIONS FOR SURFACE PREPARATION AND APPLICATION. APPLICATION OF POLYGUARD 400 WRAP IS NOT ESSENTIAL.
- CONTRACTOR SHALL PERFORM WORK ON ONLY ONE (1) TOWER FACE AND REPLACE/REINFORCE ONE (1) BOLT/MEMBER AT A TIME.
- ALL FIELD DRILLED HOLES TO BE USED FOR FIELD BOLTING INSTALLATION SHALL BE STANDARD HOLES, AS DEFINED BY AISC, UNLESS NOTED OTHERWISE.



PAINT

- AS REQUIRED, CLEAN AND PAINT PROPOSED STEEL ACCORDING TO FAA ADVISORY CIRCULAR AC 70/7460-1L.

WELDING

- ALL WELDING TO BE PERFORMED BY AWS CERTIFIED WELDERS AND CONDUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AWS WELDING CODE D1.1.
- ALL WELDS SHALL BE INSPECTED VISUALLY. IF DIRECTED BY ENGINEER OF RECORD, 25% OF WELDS SHALL BE INSPECTED WITH DYE PENETRANT OR MAGNETIC PARTICLE (100% IF REJECTABLE DEFECTS ARE FOUND) TO MEET THE ACCEPTANCE CRITERIA OF AWS D1.1. REPAIR ALL WELDS AS NECESSARY.
- INSPECTION SHALL BE PERFORMED BY AN AWS CERTIFIED WELD INSPECTOR.
- ALL ELECTRODES TO BE LOW HYDROGEN, MATCHING FILLER AND/OR BASE METAL, PER AWS D1.1, UNLESS NOTED OTHERWISE.
- IN CASES WHERE BASE METAL GRADE IS UNKNOWN, ALL WELDING ON LATTICE TOWERS SHALL BE DONE WITH E70XX ELECTRODES; ALL WELDING ON POLE STRUCTURES SHALL BE DONE WITH E80XX ELECTRODES, UNLESS NOTED OTHERWISE.
- PRIOR TO FIELD WELDING GALVANIZED MATERIAL, CONTRACTOR SHALL GRIND OFF GALVANIZING 1/2" BEYOND ALL FIELD WELD SURFACES. AFTER WELD AND WELD INSPECTION IS COMPLETE, REPAIR ALL GROUND AND WELDED SURFACES WITH ZRC GALVILITE COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURERS RECOMMENDATIONS.

BOLT TIGHTENING PROCEDURE

- STRUCTURAL CONNECTIONS TO BE ASSEMBLED AND INSPECTED IN ACCORDANCE WITH RCSC SPECIFICATIONS.
- FLANGE BOLTS SHALL BE INSTALLED AND TIGHTENED USING DIRECT TENSION INDICATING (DTI) SQUIRTER WASHERS. DTI SQUIRTER WASHERS ARE TO BE INSTALLED AND ORIENTED / TIGHTENED PER MANUFACTURER SPECIFICATIONS TO ACHIEVE DESIRED LEVEL OF BOLT PRE-TENSION.
- IN LIEU OF USING DTI SQUIRTER WASHERS, FLANGE BOLTS MAY BE TIGHTENED USING AISC / RCSC "TURN-OF-THE-NUT" METHOD, PENDING APPROVAL BY THE ENGINEER OF RECORD (EOR). TIGHTEN FLANGE BOLTS USING THE CHART BELOW:

BOLT LENGTHS UP TO AND INCLUDING FOUR DIAMETERS

| | | |
|--------|-------------------------------------------|-----------------------------|
| 1/2" | BOLTS UP TO AND INCLUDING 2.0 INCH LENGTH | +1/3 TURN BEYOND SNUG TIGHT |
| 5/8" | BOLTS UP TO AND INCLUDING 2.5 INCH LENGTH | +1/3 TURN BEYOND SNUG TIGHT |
| 3/4" | BOLTS UP TO AND INCLUDING 3.0 INCH LENGTH | +1/3 TURN BEYOND SNUG TIGHT |
| 7/8" | BOLTS UP TO AND INCLUDING 3.5 INCH LENGTH | +1/3 TURN BEYOND SNUG TIGHT |
| 1" | BOLTS UP TO AND INCLUDING 4.0 INCH LENGTH | +1/3 TURN BEYOND SNUG TIGHT |
| 1-1/8" | BOLTS UP TO AND INCLUDING 4.5 INCH LENGTH | +1/3 TURN BEYOND SNUG TIGHT |
| 1-1/4" | BOLTS UP TO AND INCLUDING 5.0 INCH LENGTH | +1/3 TURN BEYOND SNUG TIGHT |
| 1-3/8" | BOLTS UP TO AND INCLUDING 5.5 INCH LENGTH | +1/3 TURN BEYOND SNUG TIGHT |
| 1-1/2" | BOLTS UP TO AND INCLUDING 6.0 INCH LENGTH | +1/3 TURN BEYOND SNUG TIGHT |

BOLT LENGTHS OVER FOUR DIAMETERS BUT NOT EXCEEDING EIGHT DIAMETERS

| | | |
|--------|--------------------------------|-----------------------------|
| 1/2" | BOLTS 2.25 TO 4.0 INCH LENGTH | +1/2 TURN BEYOND SNUG TIGHT |
| 5/8" | BOLTS 2.75 TO 5.0 INCH LENGTH | +1/2 TURN BEYOND SNUG TIGHT |
| 3/4" | BOLTS 3.25 TO 6.0 INCH LENGTH | +1/2 TURN BEYOND SNUG TIGHT |
| 7/8" | BOLTS 3.75 TO 7.0 INCH LENGTH | +1/2 TURN BEYOND SNUG TIGHT |
| 1" | BOLTS 4.25 TO 8.0 INCH LENGTH | +1/2 TURN BEYOND SNUG TIGHT |
| 1-1/8" | BOLTS 4.75 TO 9.0 INCH LENGTH | +1/2 TURN BEYOND SNUG TIGHT |
| 1-1/4" | BOLTS 5.25 TO 10.0 INCH LENGTH | +1/2 TURN BEYOND SNUG TIGHT |
| 1-3/8" | BOLTS 5.75 TO 11.0 INCH LENGTH | +1/2 TURN BEYOND SNUG TIGHT |
| 1-1/2" | BOLTS 6.25 TO 12.0 INCH LENGTH | +1/2 TURN BEYOND SNUG TIGHT |

- SPLICE BOLTS SUBJECT TO DIRECT TENSION SHALL BE INSTALLED AND TIGHTENED AS PER SECTION 8.2.1 OF THE AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING A325 OR A490 BOLTS", LOCATED IN THE AISC MANUAL OF STEEL CONSTRUCTION. THE INSTALLATION PROCEDURE IS PARAPHRASED AS FOLLOWS:

FASTENERS SHALL BE INSTALLED IN PROPERLY ALIGNED HOLES AND TIGHTENED BY ONE OF THE METHODS DESCRIBED IN SUBSECTION 8.2.1 THROUGH 8.2.4.

8.2.1 TURN-OF-NUT PRETENSIONING

BOLTS SHALL BE INSTALLED IN ALL HOLES OF THE CONNECTION AND BROUGHT TO A SNUG TIGHT CONDITION AS DEFINED IN SECTION 8.1, UNTIL ALL THE BOLTS ARE SIMULTANEOUSLY SNUG TIGHT AND THE CONNECTION IS FULLY COMPACTED. FOLLOWING THIS INITIAL OPERATION ALL BOLTS IN THE CONNECTION SHALL BE TIGHTENED FURTHER BY THE APPLICABLE AMOUNT OF ROTATION SPECIFIED ABOVE. DURING THE TIGHTENING OPERATION THERE SHALL BE NO ROTATION OF THE PART NOT TURNED BY THE WRENCH. TIGHTENING SHALL PROGRESS SYSTEMATICALLY.

- ALL OTHER BOLTED CONNECTIONS SHALL BE BROUGHT TO A SNUG TIGHT CONDITION AS DEFINED IN SECTION 8.1 OF THE SPECIFICATION.

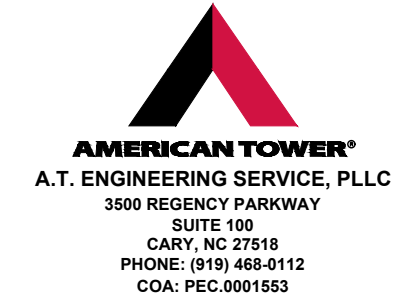
ALL BOLT HOLES SHALL BE ALIGNED TO PERMIT INSERTION OF THE BOLTS WITHOUT UNDUE DAMAGE TO THE THREADS. BOLTS SHALL BE PLACED IN ALL HOLES WITH WASHERS POSITIONED AS REQUIRED AND NUTS THREADED TO COMPLETE THE ASSEMBLY. COMPACTING THE JOINT TO THE SNUG-TIGHT CONDITION SHALL PROGRESS SYSTEMATICALLY FROM THE MOST RIGID PART OF THE JOINT. THE SNUG-TIGHTENED CONDITION IS THE TIGHTNESS THAT IS ATTAINED WITH A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT OF AN IRONWORKER USING AN ORDINARY SPUD WRENCH TO BRING THE CONNECTED PLIES INTO FIRM CONTACT.

APPLICABLE CODES AND STANDARDS

- ANSI/TIA: STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES, 222-H EDITION.
- 2018 CONNECTICUT STATE BUILDING CODE.
- 2015 INTERNATIONAL BUILDING CODE.
- ACI 318: AMERICAN CONCRETE INSTITUTE, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE. REFERENCE LATEST APPROPRIATE EDITION TO MATCH LOCAL AND/OR INTERNATIONAL BUILDING CODE(S) LISTED ABOVE.
- CRSI: CONCRETE REINFORCING STEEL INSTITUTE, MANUAL OF STANDARD PRACTICE, LATEST EDITION.
- AISC: AMERICAN INSTITUTE OF STEEL CONSTRUCTION, MANUAL OF STEEL CONSTRUCTION, LATEST EDITION.
- AWS: AMERICAN WELDING SOCIETY D1.1, STRUCTURAL WELDING CODE, LATEST EDITION.

SPECIAL INSPECTION

- A QUALIFIED INDEPENDENT TESTING LABORATORY, EMPLOYED BY THE OWNER, SHALL PERFORM INSPECTION AND TESTING IN ACCORDANCE WITH IBC 2015, SECTION 1704 AS REQUIRED BY PROJECT SPECIFICATIONS FOR THE FOLLOWING CONSTRUCTION WORK:
 - STRUCTURAL WELDING (CONTINUOUS INSPECTION OF FIELD WELD ONLY)
 - HIGH STRENGTH BOLTS (PERIODIC INSPECTION OF A325 EXTENSION FLANGE BOLTS TO BE TIGHTENED PER "TURN-OF-THE-NUT" METHOD)
- THE INSPECTION AGENCY SHALL SUBMIT INSPECTION AND TEST REPORTS TO THE BUILDING DEPARTMENT, THE ENGINEER OF RECORD, AND THE OWNER IN ACCORDANCE WITH IBC 2015, SECTION 1704, UNLESS THE FABRICATOR IS APPROVED BY THE BUILDING OFFICIAL TO PERFORM SUCH WORK WITHOUT THE SPECIAL INSPECTIONS.



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ATC SITE NUMBER:

302498

ATC SITE NAME:

PLAINFIELD CT 6

CONNECTICUT

SITE ADDRESS:

45 SPAULDING ROAD
PLAINFIELD, CT 06374



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IBC GENERAL NOTES

SHEET NUMBER:

G-002

REVISION:

0

MODIFICATION INSPECTION NOTES

THE SPECIAL INSPECTION (SI) PROCEDURE IS INTENDED TO CONFIRM THAT CONSTRUCTION AND INSTALLATION MEETS ENGINEERING DESIGN, ATC PROCEDURES AND ATC STANDARD SPECIFICATIONS FOR WIRELESS TOWER SITES.

TO ENSURE THAT THE REQUIREMENTS OF THE SI ARE MET, IT IS VITAL THAT THE GENERAL CONTRACTOR AND THE INSPECTOR BEGIN COMMUNICATING AND COORDINATING AS SOON AS A PO IS RECEIVED FROM AMERICAN TOWER CORPORATION (ATC). IT IS EXPECTED THAT EACH PARTY WILL PROACTIVELY REACH OUT TO THE OTHER PARTY. IF CONTACT INFORMATION IS NOT KNOWN, CONTACT YOUR AMERICAN TOWER POINT OF CONTACT.

SPECIAL INSPECTOR

THE SPECIAL INSPECTOR IS REQUIRED TO CONTACT THE GENERAL CONTRACTOR AS SOON AS RECEIVING A PO FROM ATC. UPON RECEIVING A PO FROM ATC THE SPECIAL INSPECTOR AT A MINIMUM MUST:

- REVIEW THE REQUIREMENTS OF THE SI CHECKLIST.
- WORK WITH THE GENERAL CONTRACTOR TO DEVELOP A SCHEDULE TO CONDUCT ON-SITE INSPECTIONS, INCLUDING FOUNDATION INSPECTIONS.
- ANY CONCERNS WITH THE SCOPE OF WORK OR PROJECT COMMITMENT MUST BE RELAYED TO THE ATC POINT OF CONTACT IMMEDIATELY.

THE SPECIAL INSPECTOR IS RESPONSIBLE FOR COLLECTING ALL GENERAL CONTRACTOR INSPECTION AND TEST REPORTS, REVIEWING THESE DOCUMENTS FOR ADHERENCE TO CONTRACT DOCUMENTS, CONDUCTING THE IN-FIELD INSPECTIONS, AND SUBMITTING THE SI REPORT TO AMERICAN TOWER CORPORATION.

GENERAL CONTRACTOR

THE GENERAL CONTRACTOR IS REQUIRED TO CONTACT THE SI INSPECTOR AS SOON AS RECEIVING A PO FOR THE MODIFICATION INSTALLATION OR TURNKEY PROJECT TO, AT A MINIMUM:

- REVIEW THE REQUIREMENTS OF THE SI CHECKLIST.
- WORK WITH THE SI TO DEVELOP A SCHEDULE TO CONDUCT ON-SITE INSPECTIONS, INCLUDING FOUNDATION INSPECTIONS.
- BETTER UNDERSTAND ALL INSPECTION AND TESTING REQUIREMENTS.

THE GENERAL CONTRACTOR SHALL PERFORM AND RECORD THE TEST AND INSPECTION RESULTS IN ACCORDANCE WITH THE REQUIREMENTS OF THE SI CHECKLIST.

SPECIAL INSPECTION CHECKLIST

| INSPECTION DOCUMENT | DESCRIPTION | INSPECTION TESTING REQUIRED | RESPONSIBILITY | SI REVIEW REQUIRED | | | INSPECTION FREQUENCY | |
|---------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|----------------|--------------------|-----------|---------|----------------------|------------|
| | | | | PRE CX | DURING CX | POST CX | PERIODIC | CONTINUOUS |
| SPECIAL INSPECTION FIELD WORK & REPORT | DOCUMENTATION AND SITE VISIT CONDUCTED BY AN ATC APPROVED SPECIAL INSPECTOR AS REQUIRED BY ATC AND OTHER AUTHORITIES HAVING JURISDICTION. INSPECTION PARAMETERS TO FOLLOW ATC'S STANDARD SPECIFICATION FOR WIRELESS TOWER SITES. | ✓ | SI | | | ✓ | | |
| ENGINEERING ASSEMBLY DRAWINGS | GC SHALL SUBMIT DRAWINGS TO SI FOR INCLUSION IN SI REPORT | ✓ | GC | ✓ | | | | |
| FABRICATED MATERIAL VERIFICATION & INSPECTION | MTR AND OR MILL CERTIFICATIONS FOR SUPPLIED MATERIALS GC SHALL SUPPLY SI WITH REPORTS TO BE INCLUDED IN SI REPORT WHEN REQUIRED BY ATC | ✓ | SI | ✓ | | | | |
| CERTIFIED WELD INSPECTION | INSPECTION AND REPORT OF STRUCTURAL WELDING PERFORMED DURING PROJECT COMPLETED BY A CWI AND INCLUDED WITHIN SI REPORT | ✓ | GC / TA | | | ✓ | ✓ | |
| FOUNDATION INSPECTION & VERIFICATION | VISUAL OBSERVATION AND APPROVAL OF FOUNDATION EXCAVATION, REBAR PLACEMENT, CASING/SHORING/FORMING PLACEMENT, AND ANCHOR TEMPLATE AND ANCHOR PLACEMENT - TO BE SI APPROVED PRIOR TO CONCRETE POUR AND DOCUMENTED IN THE SI REPORT | | SI | | | | | |
| ANCHOR, ROCK ANCHOR OR HELICAL PULL-OUT TEST | PULL TESTING OF INSTALLED ANCHORS TO BE COMPLETED AND DOCUMENTED IN SI REPORT | | GC / TA | | | | | |
| CONCRETE INSPECTION & VERIFICATION | CONCRETE MIX DESIGN, SLUMP TEST, COMPRESSIVE TESTING, AND SAMPLE GATHERING TECHNIQUES ARE TO BE PROVIDED FOR INCLUSION IN THE SI REPORT. SI SHALL VERIFY CONCRETE PLACEMENT AS REQUIRED BY THE DESIGN DOCUMENTS (INSPECTION FREQUENCY IS MARKED CONTINUOUS) | | GC / TA | | | | | |
| DYWIDAG PLACEMENT/ANCHOR BOLT EMBEDMENT - EPOXY/GROUT INSTALL | ANCHOR/BAR EMBEDMENT, HOLE SIZE, EPOXY/GROUT TYPE, INSTALLATION TEMPERATURE AND INSTALLATION SHALL BE VERIFIED BY THE SI AND INCLUDED IN THE SI REPORT | | GC / SI | | | | | |
| BASE PLATE GROUT INSPECTION & VERIFICATION | BASE PLATE GROUTING TYPE AND PLACEMENT SHALL BE CONFIRMED BY THE SI AND INCLUDED IN THE SI REPORT | | GC / SI | | | | | |
| EARTHWORK INSPECTION & VERIFICATION | EXCAVATION, FILL, SLOPE, GRADE AND OTHER EARTHWORK REQUIREMENTS PER PLANS SHALL BE VERIFIED BY THE SI AND INCLUDED IN THE SI REPORT | | GC / TA | | | | | |
| COMPACTION VERIFICATION | CONTRACTOR SHALL PROVIDE AN INDEPENDENT THIRD PARTY CERTIFIED INSPECTION WHICH PROVIDES TEST RESULTS FOR COMPACTION TEST OF SOILS IN PLACE TO ASTM STANDARDS. | | GC / TA | | | | | |
| GROUND TESTING & VERIFICATION | GC SHALL PROVIDE DOCUMENTATION SHOWING THAT THE GROUNDING SYSTEM SHALL HAVE A MEASURED RESISTANCE TO THE GROUND OF NOT MORE THAN THE RECOMMENDED 10 OHMS. PER THE ATC CONSTRUCTION SPECIFICATION UNDER SECTION 2.15 THIS DOCUMENTATION MUST BE AN INDEPENDENT CERTIFICATION. | | GC | | | | | |
| STEEL CONSTRUCTION INSPECTION & VERIFICATION | VISUAL OBSERVATION AND APPROVAL OF STEEL CONSTRUCTION TO BE PERFORMED BY THE SI. INSPECTION TO INCLUDE VERIFICATION OF NEW CONSTRUCTION OR MODIFICATION OF EXISTING CONSTRUCTION PER ENGINEERED PLANS. DETAILED VERIFICATION SHALL BE INCLUDED IN SI REPORT. | ✓ | SI | | | ✓ | ✓ | |
| ON-SITE COLD GALVANIZING VERIFICATION | SI SHALL VERIFY WITH GC ALL COLD GALVANIZATION TYPE AND APPLICATION AND INCLUDE SUMMARY IN SI REPORT | ✓ | GC | | | ✓ | ✓ | |
| GUY WIRE TENSIONING & TOWER ALIGNMENT REPORT | GC SHALL PROVIDE SI EVIDENCE OF PROPER GUY TENSIONING AND TOWER PLUMB PER PLANS. SI SHALL VERIFY AND INCLUDE PLUMB AND TENSION REPORTING IN SI REPORT. | | GC | | | | | |
| GC AS-BUILT DRAWINGS WITH CONSTRUCTION RED-LINES | GC SHALL SUBMIT "AS-BUILT" DRAWINGS INDICATING ANY APPROVED CHANGES TO ENGINEERED PLANS TO SI FOR APPROVAL/REVIEW AND INCLUSION IN SI REPORT | ✓ | GC | | | ✓ | | |
| SI AS-BUILT DRAWINGS WITH INSPECTION RED-LINES (AS REQUIRED) | SI SHALL SUBMIT "AS-BUILT" DRAWINGS INDICATING ANY APPROVED CHANGES TO ENGINEERED PLANS WITHIN SI REPORT | ✓ | SI | | | ✓ | | |
| TIA INSPECTION | SI SHALL COMPLETE TIA INSPECTION AND PROVIDE SEPARATE TIA INSPECTION DOCUMENTATION TO ATC CM | | SI | | | | | |
| PHOTOGRAPHS | PHOTOGRAPHIC EVIDENCE OF SPECIAL INSPECTION, ON SITE REMEDIATION, AND ITEMS FAILING INSPECTION & REQUIRING FOLLOW UP TO BE INCLUDED WITHIN THE SI REPORT. COMPLETE PHOTO LOG IS TO BE SUBMITTED WITHIN SI REPORT. | ✓ | GC / SI | | | ✓ | | |

NOTE: SPECIAL INSPECTIONS ARE INTENDED TO BE A COLLABORATIVE EFFORT BETWEEN GC AND SI. WHENEVER POSSIBLE GC IS TO PROVIDE SI WITH PHOTOGRAPHIC OR OTHER ACCEPTABLE EVIDENCE OF PROPER INSTALLATION IF PERIODIC INSPECTION FREQUENCY IS ACCEPTABLE. THE GC AND SI SHALL WORK TO COMPILE EVIDENCE OF PROPER CONSTRUCTION AND LIMIT THE NUMBER OF SI SITE VISITS REQUIRED.

TABLE KEY:
 SI - ATC APPROVED SPECIAL INSPECTOR
 GC - GENERAL CONTRACTOR
 TA - 3RD PARTY TESTING AGENCY
 CX - CONSTRUCTION
 CM - CONSTRUCTION MANAGER
 ATC - AMERICAN TOWER CORPORATION



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ATC SITE NUMBER:
302498
 ATC SITE NAME:
PLAINFIELD CT 6 CONNECTICUT
 SITE ADDRESS:
 45 SPAULDING ROAD
 PLAINFIELD, CT 06374



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SPECIAL INSPECTION CHECKLIST

SHEET NUMBER: **G-003** REVISION: **0**

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BILL OF MATERIALS

| QUANTITY REQUIRED | QUANTITY PROVIDED | PART NUMBER | DESCRIPTION | LENGTH | SHEET LIST | PART WEIGHT | WEIGHT (lb) | NOTES |
|------------------------------------------------------|-------------------|----------------------|--------------------------------------------------------|-----------|--------------|--------------|--------------------|---------------------------------|
| DYWIDAG REINFORCEMENT MATERIAL & HARDWARE | | | | | | | | |
| 4 | 4 | DYD-20-ATR-30 | #20 ALL THREAD ROD 30' | 30'-0" | S-501 | 501.0 | 2004 | GALVANIZED |
| 4 | 4 | DYD-20-ATR-PF | #20 ALL THREAD ROD (PER FT) | 23'-6" | S-501 | 392.5 | 1570 | GALVANIZED |
| 8 | 8 | DYD-20-COUP-00 | #20 COUPLING HDG | — | — | — | — | GALVANIZED |
| 16 | 16 | DYD-20-HN-00 | #20 HEX NUT HDG | — | — | — | — | GALVANIZED |
| 76 | 76 | BR-20E | L 6" X 3 1/2" X 3/8" | 1'-0" | S-503 | 12.3 | 935 | ECCENTRIC |
| 8 | 8 | TB-20E-8 | L 6" X 3 1/2" X 3/8" | 2'-5 1/2" | S-503 | 30.2 | 242 | ECCENTRIC |
| 259 | 272 | UB-580-3125 | U-BOLT ASSEMBLIES FOR #20 ROD | — | — | — | — | GALVANIZED |
| 192 | 202 | NG-0625-0875-A490 | NEXGEN2 BLIND BOLT ASSEMB., M20 W/ SPRING SLEEVE, A490 | — | — | — | — | ALLFASTENERS - 2NG2060 |
| 16 | 17 | NG-0938-1438-A490 | NEXGEN2 BLIND BOLT ASSEMB., M20 W/ SPRING SLEEVE, A490 | — | — | — | — | ALLFASTENERS - 2NG2036 |
| 43 | 48 | #20SB | STEP BOLT WELDMENT | 0'-7 1/4" | S-504 | 2.5 | 120 | |
| STIFFENER MATERIAL | | | | | | | | |
| 12 | 12 | 302498-1 | PL 5/8" X 3 1/2" | 0'-9" | S-504, Z-501 | 3.2 | 38 | |
| FLANGE BOLT HARDWARE | | | | | | | | |
| 12 | 13 | BK-1000-375-A490-MAG | BOLT, 1"Ø A490 W/ HHN-LKW-FW, MAGNI 565 COATING | 3 3/4" | — | — | — | ALLFASTENERS - 2STB01334A490M-A |
| TOTAL WEIGHT (lb) | | | | | | 4,909 | PAGE 1 OF 1 | |



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A.T. ENGINEERING SERVICE, PLLC
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 CARY, NC 27518
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SITE ADDRESS:
45 SPAULDING ROAD
PLAINFIELD, CT 06374



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BILL OF MATERIALS

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| SHEET NUMBER: G-004 | REVISION: 0 |
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| LEGEND | |
|-----------|---------------------------|
| ⊗ | GROUNDING TEST WELL |
| AV, A/V | AIR VENT |
| ATS | AUTOMATIC TRANSFER SWITCH |
| B | BOLLARD |
| C | CABINET |
| CS | COAX SHROUD |
| CSC | CELL SITE CABINET |
| D | DISCONNECT |
| E | ELECTRICAL |
| F | FIBER |
| GEN | GENERATOR |
| G | GENERATOR RECEPTACLE |
| HH, V | HAND HOLE, VAULT |
| HFC | HYDROGEN FUEL CELL |
| HSM | HYDROGEN STORAGE MATERIAL |
| IB | ICE BRIDGE |
| K | KENTROX BOX |
| LC | LIGHTING CONTROL |
| LPG | LIQUID PROPANE GAS |
| M | METER |
| OHW | OVERHEAD WIRE |
| P | POWER |
| PB | PULL BOX |
| PP | POWER POLE |
| T | TELCO |
| TRN | TRANSFORMER |
| --- | PROPERTY LINE |
| - - - | ADJACENT PROPERTY LINE |
| - · - · - | LEASE AREA |
| - · - - - | EASEMENT |
| ○ ○ ○ ○ | WOOD FENCE |
| — · — · — | WIRE FENCE |
| □ □ □ □ | METAL FENCE |
| — · — · — | GUARD RAIL |
| x x x x | CHAINLINK FENCE |
| — · — · — | ROAD (DIRT) |
| — · — · — | ROAD (STONE) |
| — · — · — | ROAD (PAVED) |




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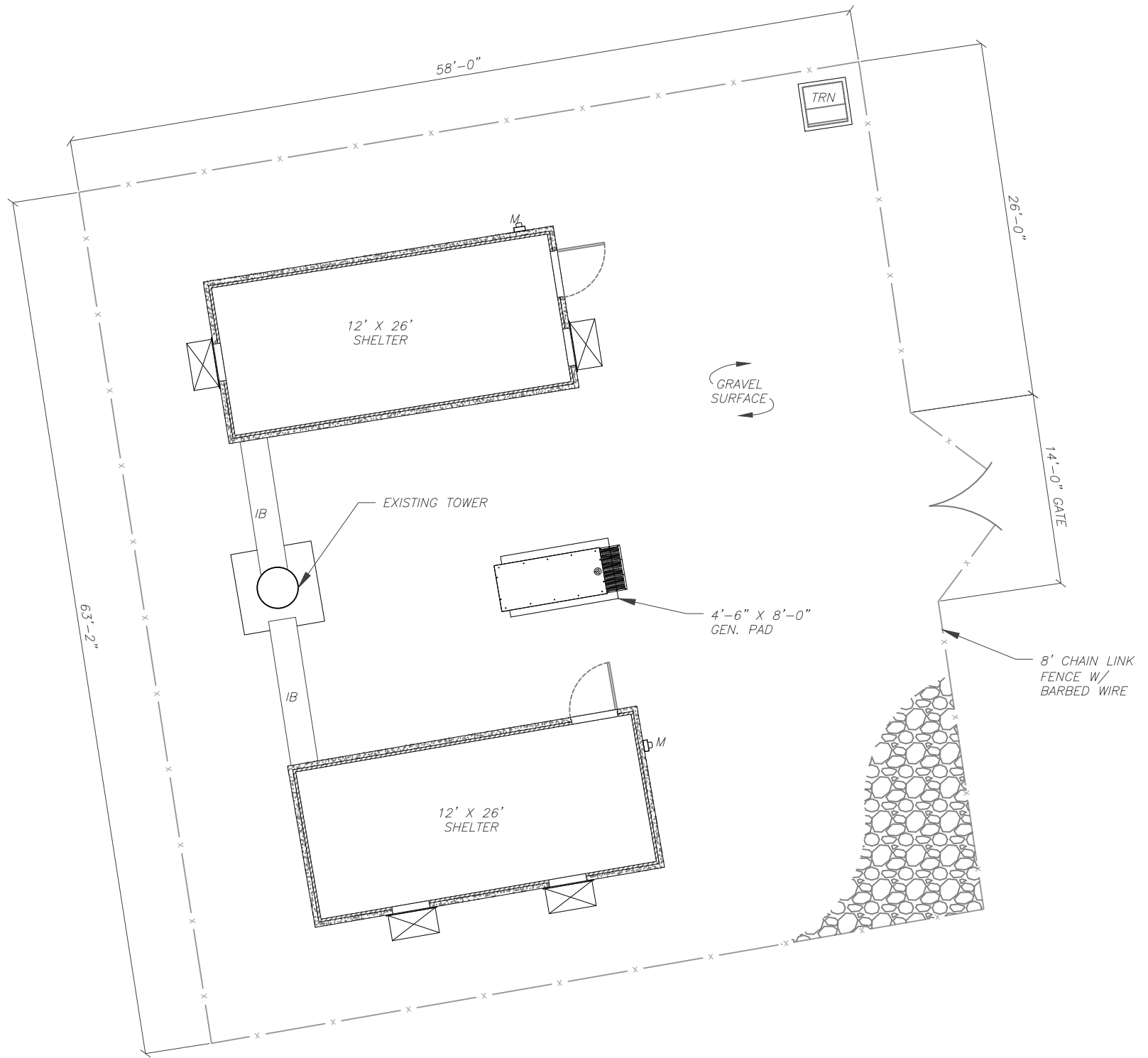
ATC SITE NUMBER:
302498
 ATC SITE NAME:
PLAINFIELD CT 6
CONNECTICUT
 SITE ADDRESS:
 45 SPAULDING ROAD
 PLAINFIELD, CT 06374



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SITE PLAN

| | |
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| SHEET NUMBER: | REVISION: |
| C-101 | 0 |



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AT&T MOBILITY
EL: 154.0' [PROPOSED]

EL: 150.0'
[TOP OF STRUCTURE]

SECTION 4

EL: 110.0'

SECTION 3

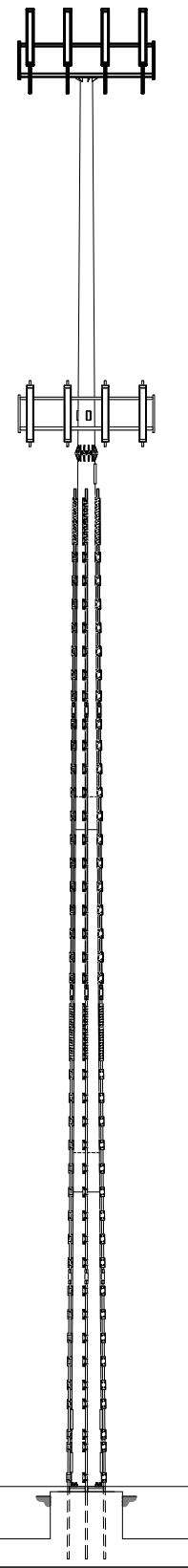
EL: 73.5'

SECTION 2

EL: 35.7'

SECTION 1

EL: 0.0'
[BOTTOM OF STRUCTURE]



TOWER ELEVATION VIEW

MOUNTS MAY REQUIRE SUPPORT AND RE-MOUNTING DURING INSTALLATION. SEE PHOTO & NOTE BELOW.

INSTALL STIFFENERS [PL 5/8" X 9" X 3 1/2"] AND UPGRADE FLANGE BOLTS [3/4"Ø X 4 1/2" A490 BOLTS W/ NUT-FW] AT EL: 110.0'. SEE SHEET S-504 FOR INSTALLATION DETAILS.

INSTALL (4) DYWIDAG #20 ALL THREAD RODS FROM EL: 52.5' TO 106.0'. SEE SHEETS S-501 TO S-503 FOR INSTALLATION DETAILS.



MODIFICATION INTERFERENCE
EL: 114'-0"±

NOTES:

1. PROPOSED #20 DYWIDAG REINFORCEMENT TO BE COUPLED WITH EXISTING #20 DYWIDAG REINFORCEMENT AT EL: 52'-6"±. CONTRACTOR TO VERIFY IN FIELD ORIENTATION WITH BASE PLATE AND EXISTING #20 DYWIDAG REINFORCEMENT.
2. PROPOSED AT&T MOBILITY COAX TO BE INSTALLED INSIDE MONOPOLE.
3. BASE FLANGE WELD AND STIFFENER PLATE WELDS (WHEN PRESENT) ARE TO BE INSPECTED VISUALLY AND BY NDT METHODS BY A CERTIFIED WELD INSPECTOR WITH NDT LEVEL II CERTIFICATION. RESULTS ARE TO BE SENT TO PMI@AMERICANTOWER.COM.
4. CONTACT AMERICAN TOWER FIELD OPERATIONS WHEN EXISTING EQUIPMENT INTERFERES WITH INSTALLATION OF MODIFICATIONS. ONCE APPROVED, EXISTING EQUIPMENT MAY BE TEMPORARILY MOVED DURING INSTALLATION & REINSTALLED TO THE ORIGINAL HEIGHT & LOCATION BY CONTRACTOR POST COMPLETION OF MODIFICATIONS.



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ATC SITE NUMBER:
302498

ATC SITE NAME:
PLAINFIELD CT 6
CONNECTICUT

SITE ADDRESS:
45 SPAULDING ROAD
PLAINFIELD, CT 06374



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|--------------|----------------|
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| APPROVED BY: | CLJ |
| DATE DRAWN: | 02/08/21 |
| ATC JOB NO: | 13211930_C6_09 |

MODIFICATION PROFILE

SHEET NUMBER:
S-201

REVISION:
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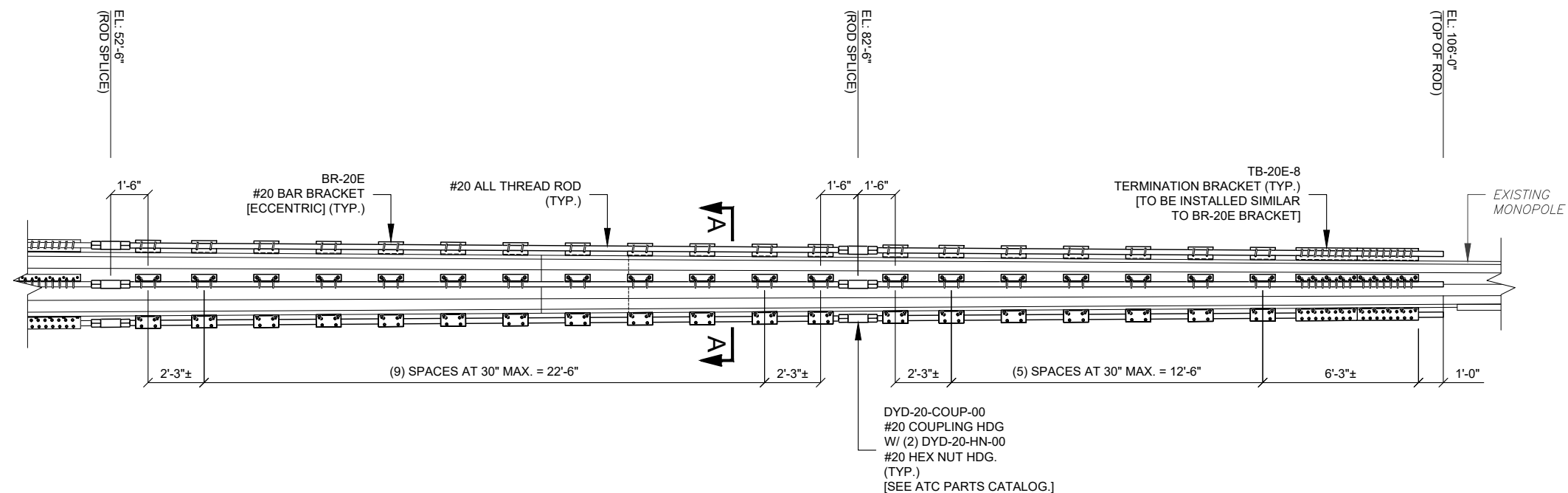


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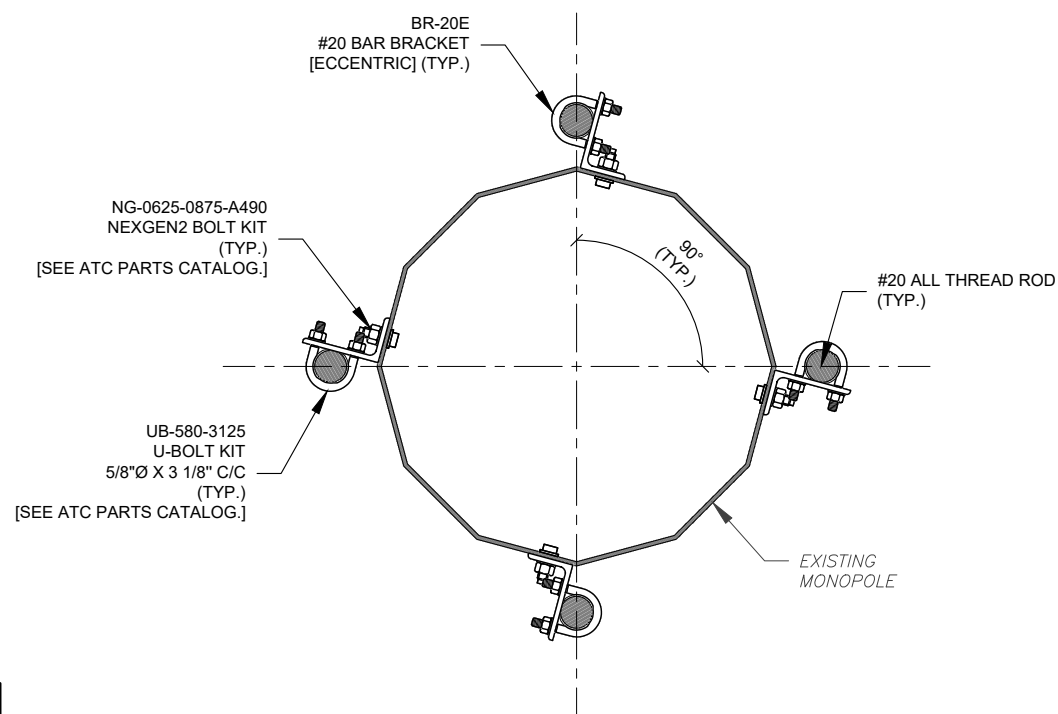
**REINFORCEMENT
 INSTALLATION DETAILS**

SHEET NUMBER:
S-501

REVISION:
0



**ELEVATION VIEW
 #20 BAR BRACKET SPACING DETAIL**



**SECTION "A-A"
 TYPICAL DETAIL**

- NOTES:**
1. REPLACE ANY EXISTING STEP BOLTS THAT INTERFERE WITH THE NEW #20 ALL THREAD ROD REINFORCEMENTS. THE NEW STEP BOLTS SHALL BE ATTACHED TO THE #20 ALL THREAD RODS IN THE SAME APPROXIMATE LOCATION. SEE SHEET S-503 FOR INSTALLATION DETAILS.
 2. PLACE A BRACKET (BR-20E) DIRECTLY ABOVE AND BELOW ANY EXISTING PORTHOLE AS REQUIRED.
 3. SEE SHEET S-502 FOR #20 ALL THREAD ROD BRACKET INSTALLATION DETAILS.
 4. NG-0938-1438-A490 NEXGEN2 BOLT KITS ARE SUPPLIED AS REQUIRED FOR BAR BRACKET CONNECTIONS THAT FALL WITHIN SLIP JOINT LOCATIONS.



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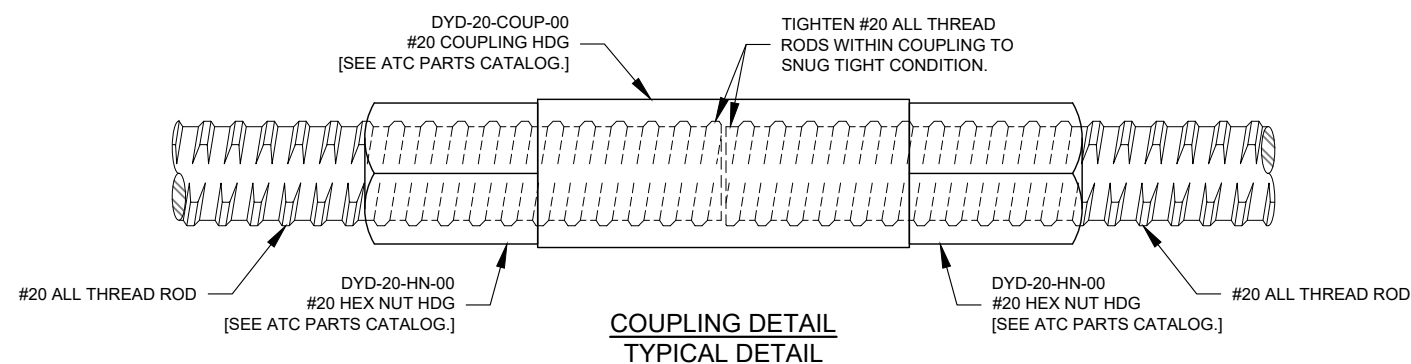
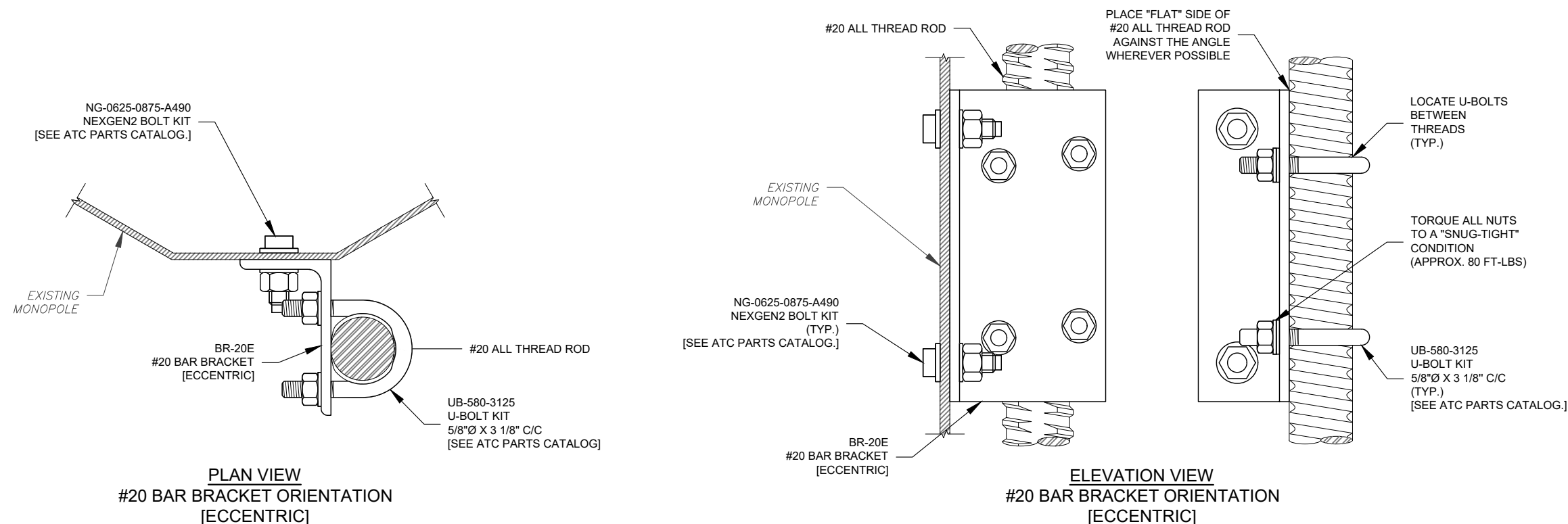


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**REINFORCEMENT
 INSTALLATION DETAILS
 (CONT'D)**

SHEET NUMBER:
S-502
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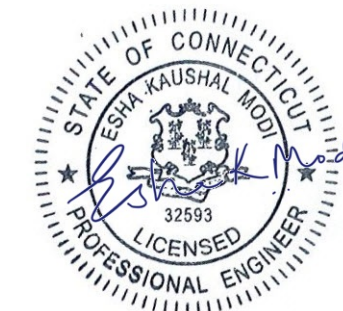


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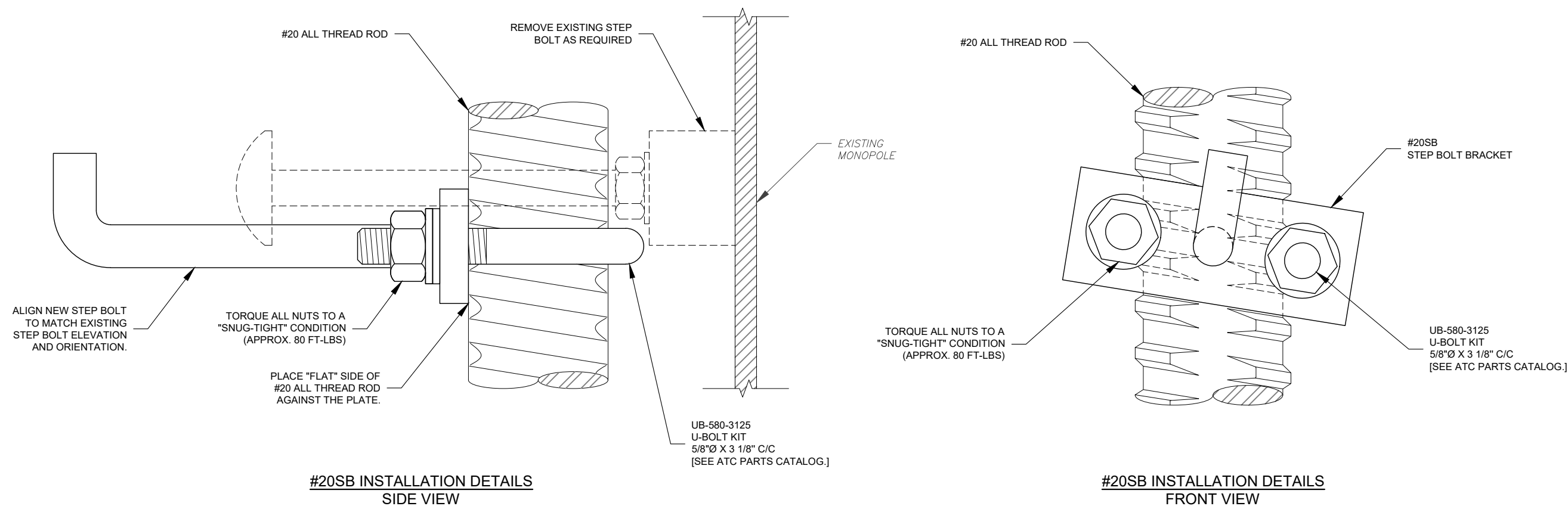
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**#20 STEP BOLT BRACKET
 INSTALLATION DETAILS**

| | |
|---------------|-----------|
| SHEET NUMBER: | REVISION: |
| S-503 | 0 |



NOTE:
 STEP PEG SPACING IS NOT TO EXCEED 15" MAX. STAGGERED OR 30" MAX. ON ANY SINGLE SIDE OF THE DWYDAG BAR.

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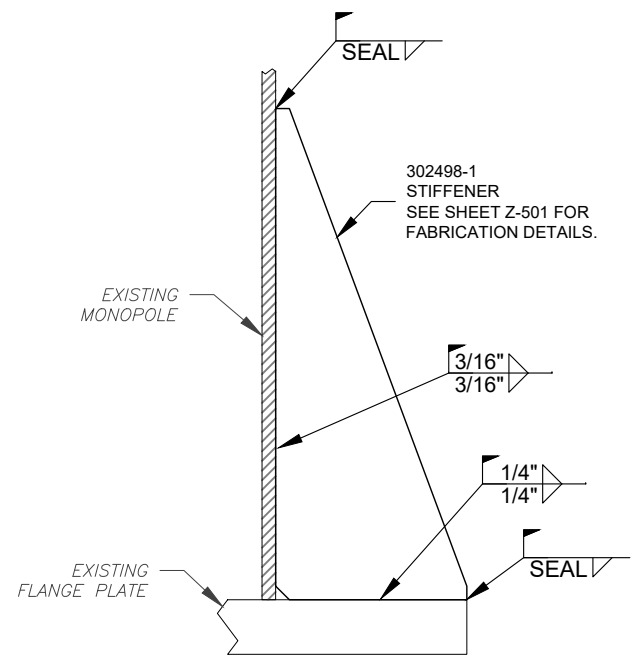
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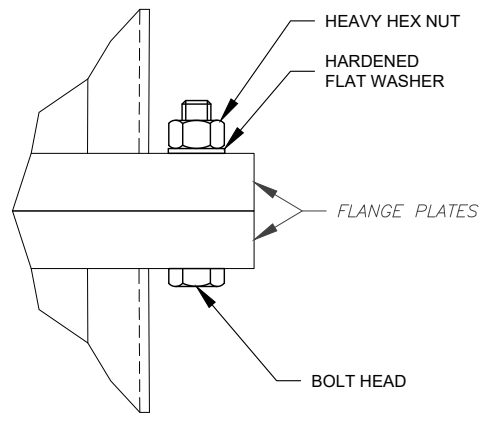
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STIFFENER & FLANGE BOLT INSTALLATION DETAILS

| | |
|---------------|-----------|
| SHEET NUMBER: | REVISION: |
| S-504 | 0 |

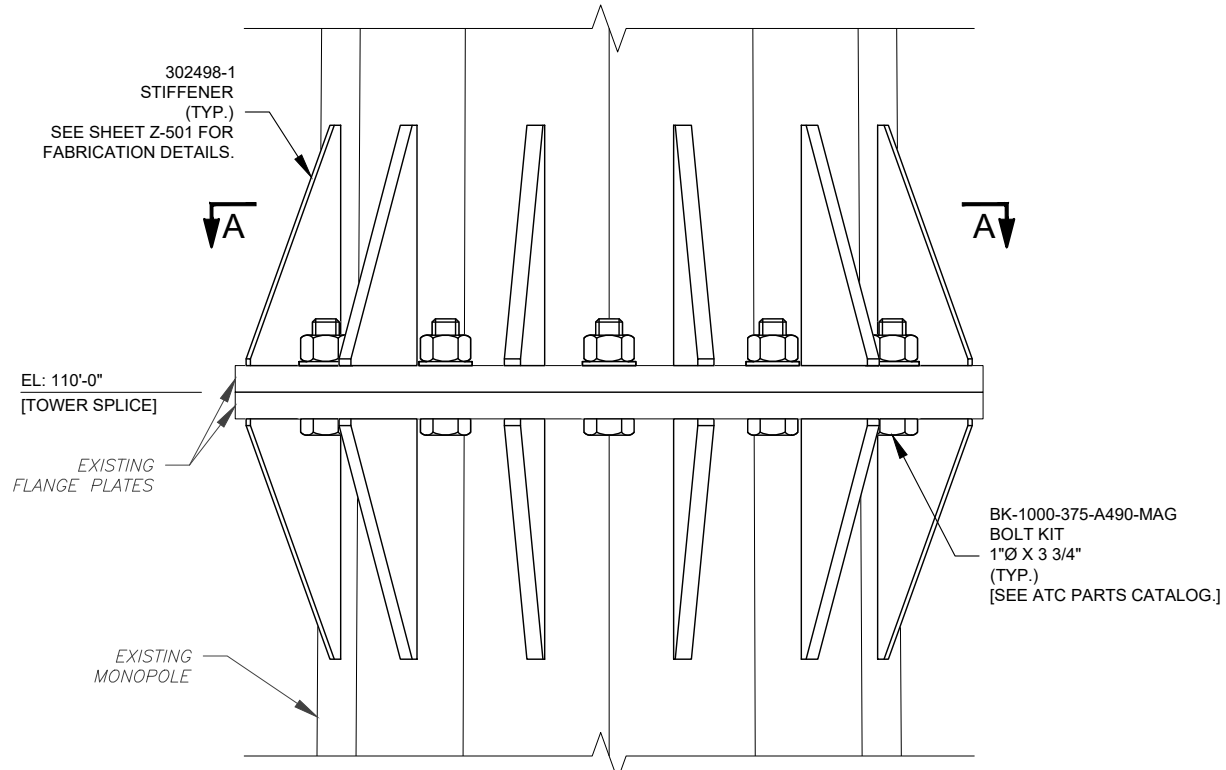


STIFFENER WELD DETAIL
 TYPICAL DETAIL

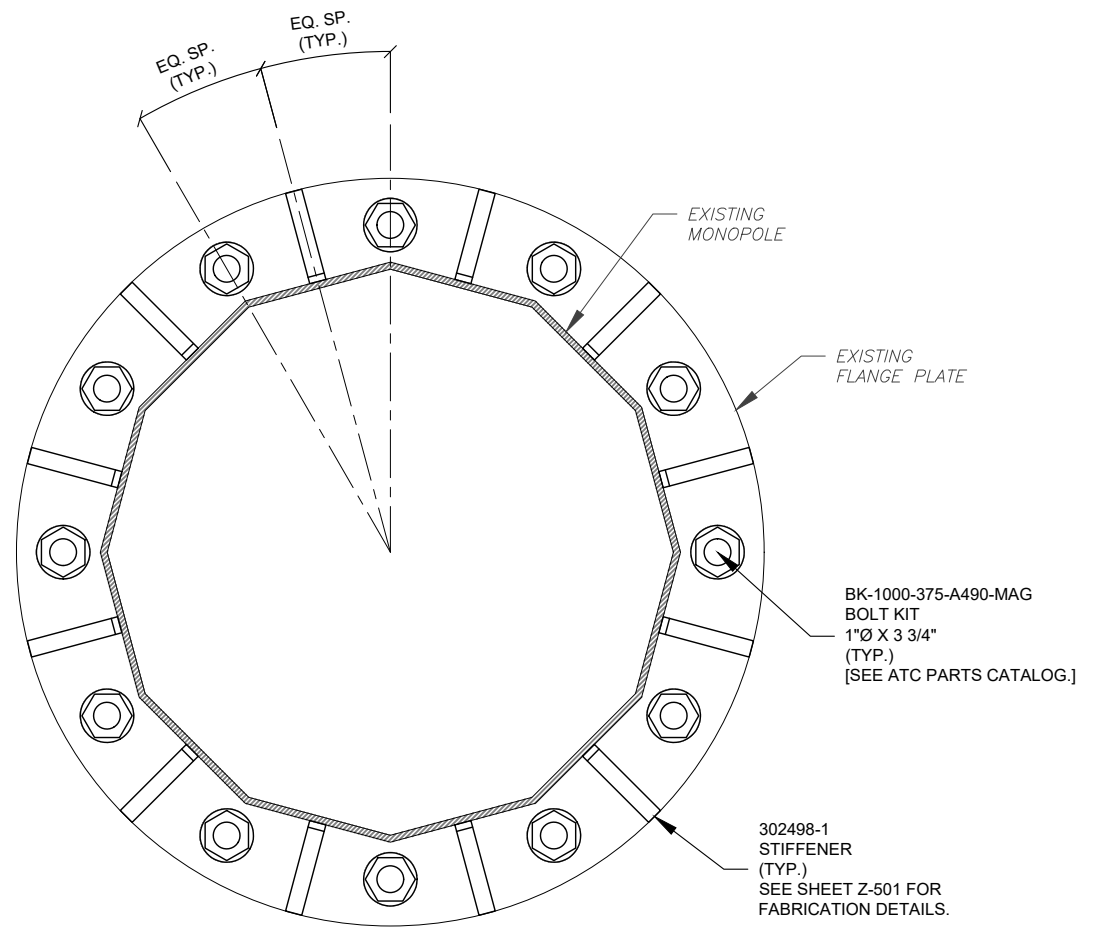


FLANGE BOLT INSTALLATION
 TYPICAL DETAIL

ALL FLANGE BOLTS SHALL BE TIGHTENED BY USING AISC/RCS "TURN-OF-THE-NUT" METHODOLOGY. SEE SHEET G-002 FOR DETAILS



ELEVATION VIEW
 STIFFENER INSTALLATION



SECTION "A-A"
 TYPICAL DETAIL

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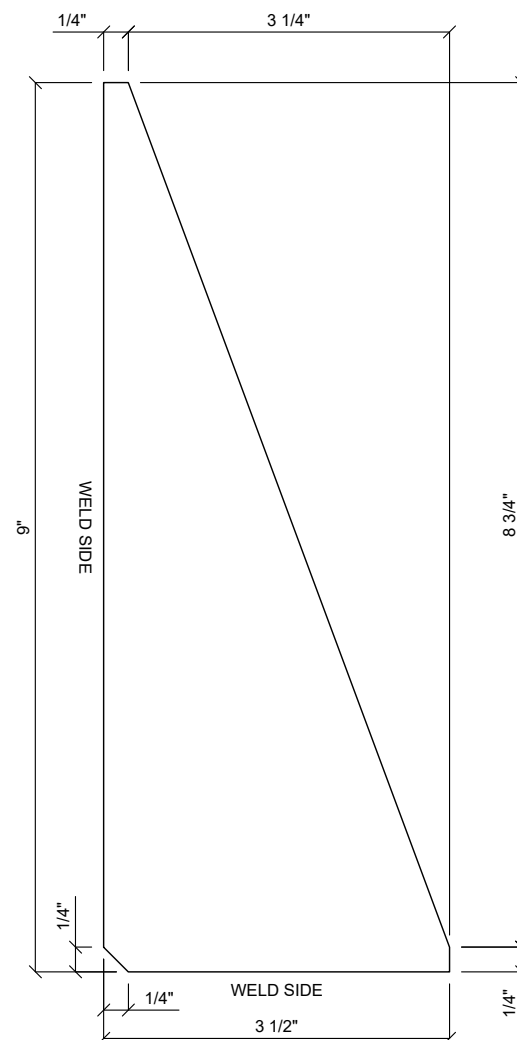


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**STIFFENER
 FABRICATION DETAILS**

SHEET NUMBER:
Z-501

REVISION:
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**302498-1
 STIFFENER**

| PART NO. | DESCRIPTION | LENGTH | NOTES | BLK WT | GALV WT |
|------------------------------|------------------|---------------------------|-------|-------------------|---------|
| 302498-1 | PL 5/8" X 3 1/2" | 0'-9" | SHAPE | 3.1# | 3.2# |
| MATERIAL: A572 GR. 50 | | FINISH: GALVANIZED | | HOLES: N/A | |

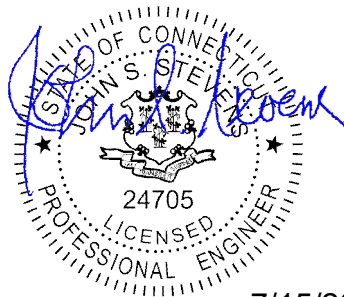
EXHIBIT 5

Mount Modification Report

July 15, 2020

| | |
|------------------------|--------------------------------------------------------------------------------------------------|
| AT&T Site Name | MRCTB046850 |
| AT&T Site Number | CTL02051 |
| ATC Site Name | Plainfield CT 6, CT |
| ATC Site Number | 302498 |
| ATC Engineering Number | 13211930_C9_06 |
| Infinigy Job Number | 1009-Z0003-B |
| Client | American Tower Corporation |
| Carrier | AT&T Mobility |
| Site Location | Spaulding Road, Plainfield, CT 06374 Windham County 41.674806 N NAD83 71.879100 W NAD83 |
| Mount Centerline EL. | 154 ft |
| Mount Classification | Platform w/ Handrails |
| Structural Usage Ratio | 75.1% |
| Overall Result | Pass |
| Note | - |

Upon reviewing the results of this analysis, it is our opinion that the structure 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.



7/15/2020

Type text h

Contents

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

Introduction

Infinigy Engineering has been requested to perform a mount analysis of the existing AT&T Platform. All 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 17.0.2 analysis software.

Supporting Documentation

| | |
|-----------------------------------|----------------------------------------------------------------------------------|
| Mount Mapping | MasTec Job No. 202199, dated June 22, 2020 |
| Structural Analysis Report | American Tower Corporation, Engineering No. OAA681936_C3_01, dated July 27, 2016 |
| Collocation Application | ATC Asset No. 302498 |

Analysis Code Requirements

| | |
|-----------------------|------------------------------------------------------|
| Wind Speed | 124 mph (3-Second Gust) |
| Wind Speed w/ ice | 50 mph (3-Second Gust) w/ 1.0” radial ice concurrent |
| TIA Revision | ANSI/TIA-222-H |
| Structure Class | II |
| Exposure Category | B |
| Topographic Category | 1 |
| Seismic Design Values | $S_s = 0.187\text{ g}$, $S_1 = 0.054\text{ g}$ |
| Site Class | D - Stiff Soil |
| HMSL | 556 ft |

Conclusion

Upon reviewing the results of this analysis, it is our opinion that the structure meets the specified TIA code requirements. The mounts and connections are therefore deemed adequate to support the final loading configuration 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:

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 Engineering Manager | **INFINIGY**
 1517 Old Apex Road, Cary, NC 27513
 (0) (518) 690-0792
 BDavenport@infinigy.com | www.infinigy.com

Final Loading Configuration

| Mount CL (ft) | Rad. HT (ft) | Vert. O/S (ft) | Horiz. O/S (ft)* | Qty. | Appurtenance | Carrier |
|---------------|--------------|----------------|------------------|------|----------------------------|------------------|
| 154.0 | 154.0 | - | 0.5 | 3 | CCI HPA65R-BU8A | AT&T Mobility |
| | | | 3.6 | 3 | CCI OPA65R-BU8D | |
| | | | 10 | 3 | CCI DMP65R-BU8D | |
| | | | 7.5 | 3 | Powerwave 7770.00 | |
| | | 4 | 0.5 | 6 | Powerwave LGP21401 | |
| | | 4 | 7.5 | 6 | Powerwave LGP21901 | |
| | | 6 | 10 | 3 | Raycap DC6-48-60-18-8F | |
| | | 5 | 3.6 | 3 | Ericsson RRUS 4478 B14 | |
| | | 5 | 0.5 | 3 | Ericsson RRUS 4449 B5/B12 | |
| | | 5 | 7.5 | 3 | Ericsson RRUS 4415 B30 | |
| | | 5 | 10 | 3 | Ericsson RRUS 8843 B2/B66A | |

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

Structure Usages

| | | |
|-----------------|--------------|-------------|
| Top Rail | 75.1% | Pass |
| Bottom Rail | 65.8% | Pass |
| Mount Pipe | 56.2% | Pass |
| RATING = | 75.1% | Pass |

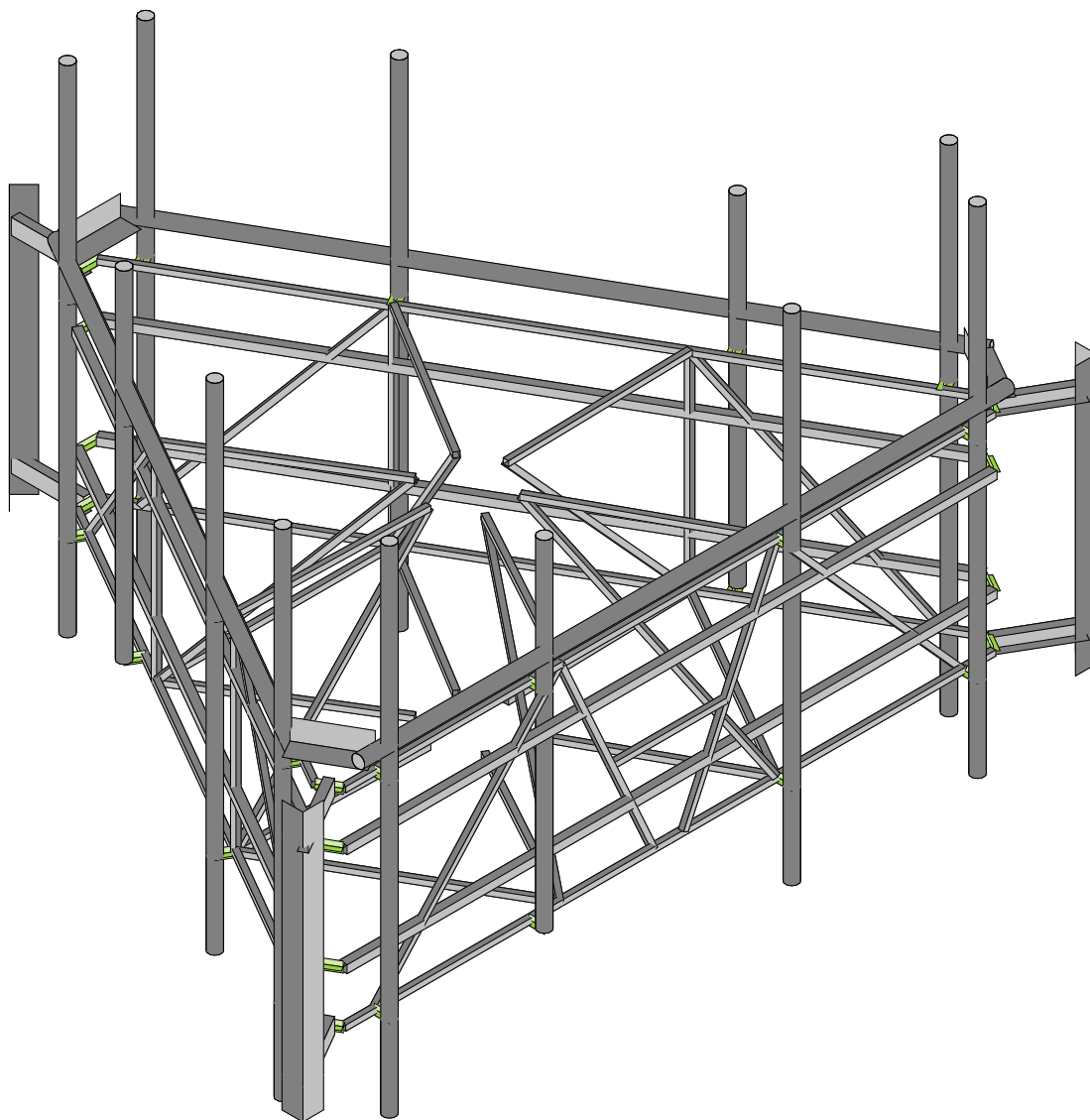
July 15, 2020

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, connections, anchors, and masonry 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 rooftop mounted equipment and/or antenna supporting structures to be proposed or modified as shown in the referenced construction drawings. Applicable building element adequacy to support these structures is also evaluated when the applied forces increase significantly based on engineering judgment.



Envelope Only Solution

| | | |
|---------------------------|-------------|--------------------------|
| Infinigy Engineering, LLC | MRCTB046850 | July 15, 2020 at 4:48 PM |
| DVA | | 302498.R3D |
| 1009-Z0003-B | | |

Date: 6/30/2020
Site: MRCTB046850
Engineer: DVA
Location: WINDHAM CT
Project No: 1009-Z0003-B

Decimal Degrees
Latitude: 28.4236
Longitude: -98.7454

Carrier: AT&T
Mount Type: 3-Side Platform
TIA Rev. H
ASCE Standard ASCE 7-16

Mount Existing? Existing
Run Seismic? Yes

Ultimate Wind Speed: 124 mph
Exposure Category: B
Service Wind: 30 mph
Risk Category: II
Ice Thickness: 1 in
Ice Wind Speed: 50 mph
Centerline AGL: 154.0 ft
Ground Elevation: 556.0 ft
Site Soil:
Topographic Category: 1

Esc. Ice: 0.992 in
I: 1.00
G_h: 1.00
Z_g: 1200
K_{zmin}: 0.70
α: 7.00
K_z: 1.12
K_d: 0.95
K_{zi}: 1.000
Ks: 1.00
Ke: 0.980
Ka: 0.90
Kes(Wind): 0.950
Kes(Ice): 0.850

q_z: 38.92 psf
q_{z ice}: 6.80 psf
q_{z live}: 2.45 psf
S1: 0.054
Sds: 0.199
Cs: 0.100
Cs min: 0.030

| Appurtenance Name | | Existing / Proposed | Weight (lb) | Height (in) | Width (in) | Depth (in) | Type | Wind Load (F _w), lb | | | | Wind Load Ice Case (F _w), lb | | | | Weight w/ Ice | Wind Load Live Case (F _w), lb | | | | Seismic Load | | |
|-------------------|-------------------|---------------------|-------------|-------------|------------|------------|-------|---------------------------------|--------|--------|--------|------------------------------------------|--------|--------|--------|---------------|-------------------------------------------|--------|--------|--------|--------------|--------|----------|
| | | | | | | | | 0 deg | 30 deg | 60 deg | 90 deg | 0 deg | 30 deg | 60 deg | 90 deg | | 0 deg | 30 deg | 60 deg | 90 deg | 0 deg | 90 deg | Vertical |
| CCI ANTENNAS | HPA65R-BU8A | Proposed | 54 | 96 | 11.7 | 7.6 | Flat | 394 | 366 | 310 | 282 | 82 | 77 | 68 | 63 | 148 | 25 | 23 | 19 | 18 | 5 | 5 | 11 |
| CCI ANTENNAS | OPA65R-BU8D | Proposed | 76.5 | 96 | 21 | 7.8 | Flat | 634 | 547 | 374 | 287 | 124 | 109 | 79 | 64 | 232 | 40 | 34 | 24 | 18 | 8 | 8 | 15 |
| RAYCAP | DC6-48-60-18-8F | Existing / Proposed | 20 | 23.5 | 9.7 | 9.7 | Round | 28 | 28 | 28 | 28 | 9 | 9 | 9 | 9 | 36 | 2 | 2 | 2 | 2 | 2 | 2 | 4 |
| CCI ANTENNAS | DMP65R-BU8D | Proposed | 95.7 | 96 | 20.7 | 7.7 | Flat | 626 | 541 | 370 | 285 | 122 | 108 | 78 | 64 | 229 | 39 | 34 | 23 | 18 | 10 | 10 | 19 |
| WERWAVE TECHNOLOG | 7770.00 | Existing | 35 | 55 | 11 | 5 | Flat | 193 | 170 | 125 | 103 | 41 | 37 | 30 | 26 | 74 | 12 | 11 | 8 | 6 | 3 | 3 | 7 |
| ERICSSON | RRUS 4449 B5/B12 | Proposed | 71 | 17.9 | 13.2 | 9.4 | Flat | 69 | 64 | 54 | 49 | 15 | 14 | 13 | 12 | 32 | 4 | 4 | 3 | 3 | 7 | 7 | 14 |
| ERICSSON | RRUS 4478 B14 | Proposed | 59.4 | 16.5 | 13.4 | 7.7 | Flat | 65 | 58 | 44 | 37 | 14 | 13 | 10 | 9 | 28 | 4 | 4 | 3 | 2 | 6 | 6 | 12 |
| ERICSSON | RRUS 8843 B2/B66A | Proposed | 72 | 14.9 | 13.2 | 10.9 | Flat | 57 | 55 | 50 | 47 | 13 | 13 | 12 | 11 | 28 | 4 | 3 | 3 | 3 | 7 | 7 | 14 |
| ERICSSON | RRUS 4415 B30 | Proposed | 46 | 16.5 | 13.4 | 5.9 | Flat | 65 | 56 | 38 | 29 | 14 | 13 | 9 | 8 | 27 | 4 | 3 | 2 | 2 | 5 | 5 | 9 |
| WERWAVE TECHNOLOG | LGP21401 | Existing | 14.1 | 14.4 | 9.2 | 2.6 | Flat | 39 | 32 | 19 | 12 | 9 | 8 | 6 | 4 | 16 | 2 | 2 | 1 | 1 | 1 | 1 | 3 |
| WERWAVE TECHNOLOG | LGP21901 | Existing | 5.5 | 4 | 6 | 3 | Flat | 7 | 6 | 4 | 4 | 2 | 2 | 2 | 2 | 3 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |

Member Primary Data

| | Label | I Joint | J Joint | K Joint | Rotate(deg) | Section/Shape | Type | Design List | Material | Design Rules |
|----|-------|---------|---------|---------|-------------|----------------|--------|-------------|-------------|--------------|
| 1 | M1 | N1 | N2 | | | Rails and Arms | Beam | Tube | A500 Gr.... | Typical |
| 2 | M2 | N25 | N22 | | | Unistrut | Beam | Tube | A500 Gr.... | Typical |
| 3 | M3 | N24 | N21 | | | Unistrut | Beam | Tube | A500 Gr.... | Typical |
| 4 | M4 | N23 | N20 | | | Rails and Arms | Beam | Tube | A500 Gr.... | Typical |
| 5 | M5 | N3 | N36 | | | Bracing | VBrace | Tube | A500 Gr.... | Typical |
| 6 | M6 | N26 | N37 | | | Bracing | VBrace | Tube | A500 Gr.... | Typical |
| 7 | M7 | N3 | N4 | | | RIGID | None | None | RIGID | Typical |
| 8 | M8 | N5 | N6 | | | RIGID | None | None | RIGID | Typical |
| 9 | M9 | N26 | N27 | | | RIGID | None | None | RIGID | Typical |
| 10 | M10 | N28 | N29 | | | RIGID | None | None | RIGID | Typical |
| 11 | M11 | N7 | N8 | | | Mount Pipe | Column | Pipe | A53 Gr.B | Typical |
| 12 | M12 | N9 | N12 | | | RIGID | None | None | RIGID | Typical |
| 13 | M13 | N10 | N11 | | | RIGID | None | None | RIGID | Typical |
| 14 | M14 | N12 | N13 | | | Mount Pipe | Column | Pipe | A53 Gr.B | Typical |
| 15 | M15 | N14 | N15 | | | Mount Pipe | Column | Pipe | A53 Gr.B | Typical |
| 16 | M16 | N16 | N158 | | | RIGID | None | None | RIGID | Typical |
| 17 | M17 | N36 | N17 | | | RIGID | None | None | RIGID | Typical |
| 18 | M18 | N18 | N19 | | | Mount Pipe | Column | Pipe | A53 Gr.B | Typical |
| 19 | M19 | N16 | N30 | | | Rails and Arms | Beam | Tube | A500 Gr.... | Typical |
| 20 | M20 | N40 | N31 | | | Rails and Arms | Beam | Tube | A500 Gr.... | Typical |
| 21 | M21 | N32 | N36 | | | Bracing | VBrace | Tube | A500 Gr.... | Typical |
| 22 | M22 | N33 | N37 | | | Bracing | VBrace | Tube | A500 Gr.... | Typical |
| 23 | M23 | N34 | N35 | | | Rails and Arms | Beam | Tube | A500 Gr.... | Typical |
| 24 | M24 | N36 | N38 | | | Rails and Arms | Beam | Tube | A500 Gr.... | Typical |
| 25 | M25 | N37 | N39 | | | Rails and Arms | Beam | Tube | A500 Gr.... | Typical |
| 26 | M26 | N38 | N16 | | | Bracing | VBrace | Tube | A500 Gr.... | Typical |
| 27 | M27 | N39 | N40 | | | Bracing | VBrace | Tube | A500 Gr.... | Typical |
| 28 | M28 | N56 | N57 | | | Rails and Arms | Beam | Tube | A500 Gr.... | Typical |
| 29 | M29 | N77 | N74 | | | Unistrut | Beam | Tube | A500 Gr.... | Typical |
| 30 | M30 | N76 | N73 | | | Unistrut | Beam | Tube | A500 Gr.... | Typical |
| 31 | M31 | N75 | N72 | | | Rails and Arms | Beam | Tube | A500 Gr.... | Typical |
| 32 | M32 | N58 | N84 | | | Bracing | VBrace | Tube | A500 Gr.... | Typical |
| 33 | M33 | N78 | N85 | | | Bracing | VBrace | Tube | A500 Gr.... | Typical |
| 34 | M34 | N58 | N59 | | | RIGID | None | None | RIGID | Typical |
| 35 | M35 | N60 | N61 | | | RIGID | None | None | RIGID | Typical |
| 36 | M36 | N78 | N79 | | | RIGID | None | None | RIGID | Typical |
| 37 | M37 | N80 | N81 | | | RIGID | None | None | RIGID | Typical |
| 38 | M38 | N62 | N63 | | | Mount Pipe | Column | Pipe | A53 Gr.B | Typical |
| 39 | M39 | N64 | N67 | | | RIGID | None | None | RIGID | Typical |
| 40 | M40 | N65 | N66 | | | RIGID | None | None | RIGID | Typical |
| 41 | M41 | N67 | N68 | | | Mount Pipe | Column | Pipe | A53 Gr.B | Typical |
| 42 | M42 | N69 | N70 | | | Mount Pipe | Column | Pipe | A53 Gr.B | Typical |
| 43 | M43 | N71 | N82 | | | Rails and Arms | Beam | Tube | A500 Gr.... | Typical |
| 44 | M44 | N88 | N83 | | | Rails and Arms | Beam | Tube | A500 Gr.... | Typical |
| 45 | M45 | N84 | N86 | | | Rails and Arms | Beam | Tube | A500 Gr.... | Typical |
| 46 | M46 | N85 | N87 | | | Rails and Arms | Beam | Tube | A500 Gr.... | Typical |
| 47 | M47 | N86 | N71 | | | Bracing | VBrace | Tube | A500 Gr.... | Typical |
| 48 | M48 | N87 | N88 | | | Bracing | VBrace | Tube | A500 Gr.... | Typical |
| 49 | M49 | N94 | N95 | | | Rails and Arms | Beam | Tube | A500 Gr.... | Typical |
| 50 | M50 | N115 | N112 | | | Unistrut | Beam | Tube | A500 Gr.... | Typical |
| 51 | M51 | N114 | N111 | | | Unistrut | Beam | Tube | A500 Gr.... | Typical |
| 52 | M52 | N113 | N110 | | | Rails and Arms | Beam | Tube | A500 Gr.... | Typical |
| 53 | M53 | N96 | N122 | | | Bracing | VBrace | Tube | A500 Gr.... | Typical |
| 54 | M54 | N116 | N123 | | | Bracing | VBrace | Tube | A500 Gr.... | Typical |
| 55 | M55 | N96 | N97 | | | RIGID | None | None | RIGID | Typical |
| 56 | M56 | N98 | N99 | | | RIGID | None | None | RIGID | Typical |



Member Primary Data (Continued)

| | Label | I Joint | J Joint | K Joint | Rotate(deg) | Section/Shape | Type | Design List | Material | Design Rules |
|-----|-------|---------|---------|---------|-------------|----------------|--------|--------------|-------------|--------------|
| 57 | M57 | N116 | N117 | | | RIGID | None | None | RIGID | Typical |
| 58 | M58 | N118 | N119 | | | RIGID | None | None | RIGID | Typical |
| 59 | M59 | N100 | N101 | | | Mount Pipe | Column | Pipe | A53 Gr.B | Typical |
| 60 | M60 | N102 | N105 | | | RIGID | None | None | RIGID | Typical |
| 61 | M61 | N103 | N104 | | | RIGID | None | None | RIGID | Typical |
| 62 | M62 | N105 | N106 | | | Mount Pipe | Column | Pipe | A53 Gr.B | Typical |
| 63 | M63 | N107 | N108 | | | Mount Pipe | Column | Pipe | A53 Gr.B | Typical |
| 64 | M64 | N109 | N120 | | | Rails and Arms | Beam | Tube | A500 Gr.... | Typical |
| 65 | M65 | N126 | N121 | | | Rails and Arms | Beam | Tube | A500 Gr.... | Typical |
| 66 | M66 | N122 | N124 | | | Rails and Arms | Beam | Tube | A500 Gr.... | Typical |
| 67 | M67 | N123 | N125 | | | Rails and Arms | Beam | Tube | A500 Gr.... | Typical |
| 68 | M68 | N124 | N109 | | | Bracing | VBrace | Tube | A500 Gr.... | Typical |
| 69 | M69 | N125 | N126 | | | Bracing | VBrace | Tube | A500 Gr.... | Typical |
| 70 | M70 | N16 | N88 | | | Rails and Arms | Beam | Tube | A500 Gr.... | Typical |
| 71 | M71 | N126 | N71 | | | Rails and Arms | Beam | Tube | A500 Gr.... | Typical |
| 72 | M72 | N109 | N40 | | | Rails and Arms | Beam | Tube | A500 Gr.... | Typical |
| 73 | M73 | N109 | N122 | | | Bracing | VBrace | Tube | A500 Gr.... | Typical |
| 74 | M74 | N126 | N123 | | | Bracing | VBrace | Tube | A500 Gr.... | Typical |
| 75 | M75 | N88 | N85 | | | Bracing | VBrace | Tube | A500 Gr.... | Typical |
| 76 | M76 | N71 | N84 | | | Bracing | VBrace | Tube | A500 Gr.... | Typical |
| 77 | M77 | N72 | N113 | | | RIGID | None | None | RIGID | Typical |
| 78 | M78 | N73 | N114 | | | RIGID | None | None | RIGID | Typical |
| 79 | M79 | N74 | N115 | | | RIGID | None | None | RIGID | Typical |
| 80 | M80 | N57 | N94 | | | RIGID | None | None | RIGID | Typical |
| 81 | M81 | N110 | N23 | | | RIGID | None | None | RIGID | Typical |
| 82 | M82 | N24 | N111 | | | RIGID | None | None | RIGID | Typical |
| 83 | M83 | N112 | N25 | | | RIGID | None | None | RIGID | Typical |
| 84 | M84 | N1 | N95 | | | RIGID | None | None | RIGID | Typical |
| 85 | M85 | N75 | N20 | | | RIGID | None | None | RIGID | Typical |
| 86 | M86 | N76 | N21 | | | RIGID | None | None | RIGID | Typical |
| 87 | M87 | N77 | N22 | | | RIGID | None | None | RIGID | Typical |
| 88 | M88 | N56 | N2 | | | RIGID | None | None | RIGID | Typical |
| 89 | M89 | N140 | N141 | | | Corner Channel | Beam | Channel | A36 Gr.36 | Typical |
| 90 | M90 | N142 | N143 | | | Corner Channel | Beam | Channel | A36 Gr.36 | Typical |
| 91 | M91 | N145 | N144 | | 135 | Corner Angle | Column | Single Angle | A36 Gr.36 | Typical |
| 92 | M92 | N146 | N147 | | | Corner Channel | Beam | Channel | A36 Gr.36 | Typical |
| 93 | M93 | N148 | N149 | | | Corner Channel | Beam | Channel | A36 Gr.36 | Typical |
| 94 | M94 | N151 | N150 | | 270 | Corner Angle | Column | Single Angle | A36 Gr.36 | Typical |
| 95 | M95 | N152 | N153 | | | Corner Channel | Beam | Channel | A36 Gr.36 | Typical |
| 96 | M96 | N154 | N155 | | | Corner Channel | Beam | Channel | A36 Gr.36 | Typical |
| 97 | M97 | N157 | N156 | | | Corner Angle | Column | Single Angle | A36 Gr.36 | Typical |
| 98 | M98 | N71 | N162 | | | RIGID | None | None | RIGID | Typical |
| 99 | M99 | N84 | N159 | | | RIGID | None | None | RIGID | Typical |
| 100 | M100 | N160 | N161 | | | Mount Pipe | Column | Pipe | A53 Gr.B | Typical |
| 101 | M101 | N109 | N166 | | | RIGID | None | None | RIGID | Typical |
| 102 | M102 | N122 | N163 | | | RIGID | None | None | RIGID | Typical |
| 103 | M103 | N164 | N165 | | | Mount Pipe | Column | Pipe | A53 Gr.B | Typical |
| 104 | M104 | N169 | N168 | | | Mount Pipe | Column | Pipe | A53 Gr.B | Typical |
| 105 | M105 | N172 | N171 | | | Mount Pipe | Column | Pipe | A53 Gr.B | Typical |
| 106 | M106 | N174 | N173 | | | Mount Pipe | Column | Pipe | A53 Gr.B | Typical |
| 107 | M107 | N192 | N189 | | | Corner Angle | Column | Single Angle | A36 Gr.36 | Typical |
| 108 | M108 | N186 | N190 | | | Corner Angle | Column | Single Angle | A36 Gr.36 | Typical |
| 109 | M109 | N191 | N187 | | | Corner Angle | Column | Single Angle | A36 Gr.36 | Typical |



Company : Infinigy Engineering, LLC
 Designer : DVA
 Job Number : 1009-Z0003-B
 Model Name : MRCTB046850

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Hot Rolled Steel Design Parameters

| Label | Shape | Length[in] | I _{yy} [in] | I _{zz} [in] | I _{comp top} [in] | I _{comp bot} [in] | I _{-torqu} | K _{yy} | K _{zz} | C _b | Function |
|-------|-------|-----------------|----------------------|----------------------|----------------------------|----------------------------|---------------------|-----------------|-----------------|----------------|----------|
| 1 | M1 | Rails and Ar... | 126 | 42 | 42 | 42 | 42 | | | | Lateral |
| 2 | M2 | Unistrut | 126 | 42 | 42 | 42 | 42 | | | | Lateral |
| 3 | M3 | Unistrut | 126 | 42 | 42 | 42 | 42 | | | | Lateral |
| 4 | M4 | Rails and Ar... | 126 | 42 | 42 | 42 | 42 | | | | Lateral |
| 5 | M5 | Bracing | 53.814 | | | I _{bvv} | | | | | Lateral |
| 6 | M6 | Bracing | 53.814 | | | I _{bvy} | | | | | Lateral |
| 7 | M11 | Mount Pipe | 96 | | | I _{bvv} | | | | | Lateral |
| 8 | M14 | Mount Pipe | 66 | | | I _{bvy} | | | | | Lateral |
| 9 | M15 | Mount Pipe | 96 | | | I _{bvv} | | | | | Lateral |
| 10 | M18 | Mount Pipe | 96 | | | I _{bvy} | | | | | Lateral |
| 11 | M19 | Rails and Ar... | 36.473 | | | I _{bvv} | | | | | Lateral |
| 12 | M20 | Rails and Ar... | 36.473 | | | I _{bvy} | | | | | Lateral |
| 13 | M21 | Bracing | 43.863 | | | I _{bvv} | | | | | Lateral |
| 14 | M22 | Bracing | 43.863 | | | I _{bvy} | | | | | Lateral |
| 15 | M23 | Rails and Ar... | 22.2 | | | I _{bvv} | | | | | Lateral |
| 16 | M24 | Rails and Ar... | 36.473 | | | I _{bvy} | | | | | Lateral |
| 17 | M25 | Rails and Ar... | 36.473 | | | I _{bvv} | | | | | Lateral |
| 18 | M26 | Bracing | 54.132 | | | I _{bvy} | | | | | Lateral |
| 19 | M27 | Bracing | 54.132 | | | I _{bvv} | | | | | Lateral |
| 20 | M28 | Rails and Ar... | 126 | 42 | 42 | 42 | 42 | | | | Lateral |
| 21 | M29 | Unistrut | 126 | 42 | 42 | 42 | 42 | | | | Lateral |
| 22 | M30 | Unistrut | 126 | 42 | 42 | 42 | 42 | | | | Lateral |
| 23 | M31 | Rails and Ar... | 126 | 42 | 42 | | | | | | Lateral |
| 24 | M32 | Bracing | 53.814 | | | I _{bvy} | | | | | Lateral |
| 25 | M33 | Bracing | 53.814 | | | I _{bvv} | | | | | Lateral |
| 26 | M38 | Mount Pipe | 96 | | | I _{bvy} | | | | | Lateral |
| 27 | M41 | Mount Pipe | 66 | | | I _{bvv} | | | | | Lateral |
| 28 | M42 | Mount Pipe | 96 | | | I _{bvy} | | | | | Lateral |
| 29 | M43 | Rails and Ar... | 36.473 | | | I _{bvv} | | | | | Lateral |
| 30 | M44 | Rails and Ar... | 36.473 | | | I _{bvy} | | | | | Lateral |
| 31 | M45 | Rails and Ar... | 36.473 | | | I _{bvv} | | | | | Lateral |
| 32 | M46 | Rails and Ar... | 36.473 | | | I _{bvy} | | | | | Lateral |
| 33 | M47 | Bracing | 54.132 | | | I _{bvv} | | | | | Lateral |
| 34 | M48 | Bracing | 54.132 | | | I _{bvy} | | | | | Lateral |
| 35 | M49 | Rails and Ar... | 126 | 42 | 42 | 42 | 42 | | | | Lateral |
| 36 | M50 | Unistrut | 126 | 42 | 42 | 42 | 42 | | | | Lateral |
| 37 | M51 | Unistrut | 126 | 42 | 42 | 42 | 42 | | | | Lateral |
| 38 | M52 | Rails and Ar... | 126 | 42 | 42 | 42 | 42 | | | | Lateral |
| 39 | M53 | Bracing | 53.814 | | | I _{bvv} | | | | | Lateral |
| 40 | M54 | Bracing | 53.814 | | | I _{bvy} | | | | | Lateral |
| 41 | M59 | Mount Pipe | 96 | | | I _{bvv} | | | | | Lateral |
| 42 | M62 | Mount Pipe | 66 | | | I _{bvy} | | | | | Lateral |
| 43 | M63 | Mount Pipe | 96 | | | I _{bvv} | | | | | Lateral |
| 44 | M64 | Rails and Ar... | 36.473 | | | I _{bvy} | | | | | Lateral |
| 45 | M65 | Rails and Ar... | 36.473 | | | I _{bvv} | | | | | Lateral |
| 46 | M66 | Rails and Ar... | 36.473 | | | I _{bvy} | | | | | Lateral |
| 47 | M67 | Rails and Ar... | 36.473 | | | I _{bvv} | | | | | Lateral |
| 48 | M68 | Bracing | 54.132 | | | I _{bvy} | | | | | Lateral |
| 49 | M69 | Bracing | 54.132 | | | I _{bvv} | | | | | Lateral |
| 50 | M70 | Rails and Ar... | 45.945 | | | I _{bvy} | | | | | Lateral |
| 51 | M71 | Rails and Ar... | 45.945 | | | I _{bvv} | | | | | Lateral |
| 52 | M72 | Rails and Ar... | 45.945 | | | I _{bvy} | | | | | Lateral |
| 53 | M73 | Bracing | 40 | | | I _{bvv} | | | | | Lateral |
| 54 | M74 | Bracing | 40 | | | I _{bvy} | | | | | Lateral |
| 55 | M75 | Bracing | 40 | | | I _{bvv} | | | | | Lateral |
| 56 | M76 | Bracing | 40 | | | I _{bvy} | | | | | Lateral |

Hot Rolled Steel Design Parameters (Continued)

| Label | Shape | Length[in] | I byy[in] | I bzz[in] | I comp top[in] | I comp bot[in] | -torqu | Kyy | Kzz | Cb | Function |
|-------|-------|---------------|-----------|-----------|----------------|----------------|--------|-----|-----|----|----------|
| 57 | M89 | Corner Cha... | 14 | | I bvv | | | | | | Lateral |
| 58 | M90 | Corner Cha... | 14 | | I byy | | | | | | Lateral |
| 59 | M91 | Corner Angle | 52 | | | | | | | | Lateral |
| 60 | M92 | Corner Cha... | 14 | | I byy | | | | | | Lateral |
| 61 | M93 | Corner Cha... | 14 | | I bvv | | | | | | Lateral |
| 62 | M94 | Corner Angle | 52 | | | | | | | | Lateral |
| 63 | M95 | Corner Cha... | 14 | | I bvv | | | | | | Lateral |
| 64 | M96 | Corner Cha... | 14 | | I byy | | | | | | Lateral |
| 65 | M97 | Corner Angle | 52 | | | | | | | | Lateral |
| 66 | M100 | Mount Pipe | 96 | | I byy | | | | | | Lateral |
| 67 | M103 | Mount Pipe | 96 | | I bvv | | | | | | Lateral |
| 68 | M104 | Mount Pipe | 126 | | | | | | | | Lateral |
| 69 | M105 | Mount Pipe | 126 | | | | | | | | Lateral |
| 70 | M106 | Mount Pipe | 126 | | | | | | | | Lateral |
| 71 | M107 | Corner Angle | 12, 141 | | | | | | | | Lateral |
| 72 | M108 | Corner Angle | 12, 141 | | | | | | | | Lateral |
| 73 | M109 | Corner Angle | 12, 141 | | | | | | | | Lateral |

Member Advanced Data

| | Label | I Release | J Release | I Offset[in] | J Offset[in] | T/C Only | Physical | Defl Ra | Analysis Offset[in] | Inactive | Seismic |
|----|-------|-----------|-----------|--------------|--------------|----------|----------|----------|---------------------|----------|---------|
| 1 | M1 | | | | | | Yes | | | | None |
| 2 | M2 | | | | | | Yes | | | | None |
| 3 | M3 | | | | | | Yes | | | | None |
| 4 | M4 | | | | | | Yes | | | | None |
| 5 | M5 | | | | | | Yes | ** NA ** | | | None |
| 6 | M6 | | | | | | Yes | ** NA ** | | | None |
| 7 | M7 | | OOOXOO | | | | Yes | ** NA ** | | | None |
| 8 | M8 | | OOOXOO | | | | Yes | ** NA ** | | | None |
| 9 | M9 | | OOOXOO | | | | Yes | ** NA ** | | | None |
| 10 | M10 | | OOOXOO | | | | Yes | ** NA ** | | | None |
| 11 | M11 | | | | | | Yes | ** NA ** | | | None |
| 12 | M12 | | OOOXOO | | | | Yes | ** NA ** | | | None |
| 13 | M13 | | OOOXOO | | | | Yes | ** NA ** | | | None |
| 14 | M14 | | | | | | Yes | ** NA ** | | | None |
| 15 | M15 | | | | | | Yes | ** NA ** | | | None |
| 16 | M16 | | OOOXOO | | | | Yes | ** NA ** | | | None |
| 17 | M17 | | OOOXOO | | | | Yes | ** NA ** | | | None |
| 18 | M18 | | | | | | Yes | ** NA ** | | | None |
| 19 | M19 | | | | | | Yes | | | | None |
| 20 | M20 | | | | | | Yes | | | | None |
| 21 | M21 | | | | | | Yes | ** NA ** | | | None |
| 22 | M22 | | | | | | Yes | ** NA ** | | | None |
| 23 | M23 | | | | | | Yes | | | | None |
| 24 | M24 | | | | | | Yes | | | | None |
| 25 | M25 | | | | | | Yes | | | | None |
| 26 | M26 | | | | | | Yes | ** NA ** | | | None |
| 27 | M27 | | | | | | Yes | ** NA ** | | | None |
| 28 | M28 | | | | | | Yes | | | | None |
| 29 | M29 | | | | | | Yes | | | | None |
| 30 | M30 | | | | | | Yes | | | | None |
| 31 | M31 | | | | | | Yes | | | | None |
| 32 | M32 | | | | | | Yes | ** NA ** | | | None |
| 33 | M33 | | | | | | Yes | ** NA ** | | | None |
| 34 | M34 | | | | | | Yes | ** NA ** | | | None |
| 35 | M35 | | OOOXOO | | | | Yes | ** NA ** | | | None |



Company : Infinigy Engineering, LLC
 Designer : DVA
 Job Number : 1009-Z0003-B
 Model Name : MRCTB046850

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Member Advanced Data (Continued)

| | Label | I Release | J Release | I Offset(in) | J Offset(in) | T/C Only | Physical | Defl Ra | Analysis Offset(in) | Inactive | Seismic |
|----|-------|-----------|-----------|--------------|--------------|----------|----------|----------|---------------------|----------|---------|
| 36 | M36 | | 000X00 | | | | Yes | ** NA ** | | | None |
| 37 | M37 | | 000X00 | | | | Yes | ** NA ** | | | None |
| 38 | M38 | | | | | | Yes | ** NA ** | | | None |
| 39 | M39 | | 000X00 | | | | Yes | ** NA ** | | | None |
| 40 | M40 | | 000X00 | | | | Yes | ** NA ** | | | None |
| 41 | M41 | | | | | | Yes | ** NA ** | | | None |
| 42 | M42 | | | | | | Yes | ** NA ** | | | None |
| 43 | M43 | | | | | | Yes | | | | None |
| 44 | M44 | | | | | | Yes | | | | None |
| 45 | M45 | | | | | | Yes | | | | None |
| 46 | M46 | | | | | | Yes | | | | None |
| 47 | M47 | | | | | | Yes | ** NA ** | | | None |
| 48 | M48 | | | | | | Yes | ** NA ** | | | None |
| 49 | M49 | | | | | | Yes | | | | None |
| 50 | M50 | | | | | | Yes | | | | None |
| 51 | M51 | | | | | | Yes | | | | None |
| 52 | M52 | | | | | | Yes | | | | None |
| 53 | M53 | | | | | | Yes | ** NA ** | | | None |
| 54 | M54 | | | | | | Yes | ** NA ** | | | None |
| 55 | M55 | | 000X00 | | | | Yes | ** NA ** | | | None |
| 56 | M56 | | 000X00 | | | | Yes | ** NA ** | | | None |
| 57 | M57 | | 000X00 | | | | Yes | ** NA ** | | | None |
| 58 | M58 | | 000X00 | | | | Yes | ** NA ** | | | None |
| 59 | M59 | | | | | | Yes | ** NA ** | | | None |
| 60 | M60 | | 000X00 | | | | Yes | ** NA ** | | | None |
| 61 | M61 | | 000X00 | | | | Yes | ** NA ** | | | None |
| 62 | M62 | | | | | | Yes | ** NA ** | | | None |
| 63 | M63 | | | | | | Yes | ** NA ** | | | None |
| 64 | M64 | | | | | | Yes | | | | None |
| 65 | M65 | | | | | | Yes | | | | None |
| 66 | M66 | | | | | | Yes | | | | None |
| 67 | M67 | | | | | | Yes | | | | None |
| 68 | M68 | | | | | | Yes | ** NA ** | | | None |
| 69 | M69 | | | | | | Yes | ** NA ** | | | None |
| 70 | M70 | | | | | | Yes | | | | None |
| 71 | M71 | | | | | | Yes | | | | None |
| 72 | M72 | | | | | | Yes | | | | None |
| 73 | M73 | | | | | | Yes | ** NA ** | | | None |
| 74 | M74 | | | | | | Yes | ** NA ** | | | None |
| 75 | M75 | | | | | | Yes | ** NA ** | | | None |
| 76 | M76 | | | | | | Yes | ** NA ** | | | None |
| 77 | M77 | | | | | | Yes | ** NA ** | | | None |
| 78 | M78 | | | | | | Yes | ** NA ** | | | None |
| 79 | M79 | | | | | | Yes | ** NA ** | | | None |
| 80 | M80 | | | | | | Yes | ** NA ** | | | None |
| 81 | M81 | | | | | | Yes | ** NA ** | | | None |
| 82 | M82 | | | | | | Yes | ** NA ** | | | 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 | | | | None |



Member Advanced Data (Continued)

| | Label | I Release | J Release | I Offset[in] | J Offset[in] | T/C Only | Physical | Defl Ra | Analysis Offset[in] | Inactive | Seismic |
|-----|-------|-----------|-----------|--------------|--------------|----------|----------|----------|---------------------|----------|---------|
| 93 | M93 | | | | | | Yes | | | | None |
| 94 | M94 | | | | | | Yes | ** NA ** | | | None |
| 95 | M95 | | | | | | Yes | | | | None |
| 96 | M96 | | | | | | Yes | | | | None |
| 97 | M97 | | | | | | Yes | ** NA ** | | | None |
| 98 | M98 | | 000X00 | | | | Yes | ** NA ** | | | None |
| 99 | M99 | | 000X00 | | | | Yes | ** NA ** | | | None |
| 100 | M100 | | | | | | Yes | ** NA ** | | | None |
| 101 | M101 | | 000X00 | | | | Yes | ** NA ** | | | None |
| 102 | M102 | | 000X00 | | | | Yes | ** NA ** | | | None |
| 103 | M103 | | | | | | Yes | ** NA ** | | | None |
| 104 | M104 | | | | | | Yes | ** NA ** | | | None |
| 105 | M105 | | | | | | Yes | ** NA ** | | | None |
| 106 | M106 | | | | | | Yes | ** NA ** | | | None |
| 107 | M107 | BenPIN | BenPIN | | | | Yes | ** NA ** | | | None |
| 108 | M108 | BenPIN | BenPIN | | | | Yes | ** NA ** | | | None |
| 109 | M109 | BenPIN | BenPIN | | | | Yes | ** NA ** | | | None |

Hot Rolled Steel Section Sets

| | Label | Shape | Type | Design List | Material | Design R | A [in ²] | I _{yy} [in ⁴] | I _{zz} [in ⁴] | J [in ⁴] |
|---|----------------|--------------|--------|--------------|----------------|----------|----------------------|------------------------------------|------------------------------------|----------------------|
| 1 | Unistrut | HSS1.5x1.5x4 | Beam | Tube | A500 Gr.B Rect | Typical | 1.25 | 339 | 339 | 488 |
| 2 | Bracing | HSS1x1x2 | VBrace | Tube | A500 Gr.B Rect | Typical | .518 | .064 | .064 | .093 |
| 3 | Rails and Arms | HSS1x1x2 | Beam | Tube | A500 Gr.B Rect | Typical | .518 | .064 | .064 | .093 |
| 4 | Corner Channel | C3X6 | Beam | Channel | A36 Gr.36 | Typical | 1.76 | .3 | 2.07 | .072 |
| 5 | Corner Angle | L4X4X4 | Column | Single Angle | A36 Gr.36 | Typical | 1.93 | 3 | 3 | .044 |
| 6 | Mount Pipe | PIPE_2.0 | Column | Pipe | A53 Gr.B | Typical | 1.02 | 627 | 627 | 1.25 |

Basic Load Cases

| | B/LC Description | Category | X Gravity | Y Gravity | Z Gravity | Joint | Point | Distributed Area(Me | Surface(|
|----|--------------------------|----------|-----------|-----------|-----------|-------|-------|---------------------|----------|
| 1 | Dead | None | | -1 | | | 27 | | 9 |
| 2 | Wind (0 deg) | None | | | | | 27 | 53 | |
| 3 | Wind (90 deg) | None | | | | | 27 | 57 | |
| 4 | Wind (30 deg) | None | | | | | 54 | 110 | |
| 5 | Wind (60 deg) | None | | | | | 54 | 110 | |
| 6 | Wind (120 deg) | None | | | | | 54 | 110 | |
| 7 | Wind (150 deg) | None | | | | | 54 | 110 | |
| 8 | Dead Ice | None | | | | | 27 | 67 | 9 |
| 9 | Wind + Ice (0 deg) | None | | | | | 27 | 53 | |
| 10 | Wind + Ice (90 deg) | None | | | | | 27 | 57 | |
| 11 | Wind + Ice (30 deg) | None | | | | | 54 | 110 | |
| 12 | Wind + Ice (60 deg) | None | | | | | 54 | 110 | |
| 13 | Wind + Ice (120 deg) | None | | | | | 54 | 110 | |
| 14 | Wind + Ice (150 deg) | None | | | | | 54 | 110 | |
| 15 | Live Lm1 | None | | | | | 1 | | |
| 16 | Live Lm2 | None | | | | | 1 | | |
| 17 | Live Lm3 | None | | | | | 1 | | |
| 18 | Wind + Live Lm (0 deg) | None | | | | | 27 | 53 | |
| 19 | Wind + Live Lm (90 deg) | None | | | | | 27 | 57 | |
| 20 | Wind + Live Lm (30 deg) | None | | | | | 54 | 110 | |
| 21 | Wind + Live Lm (60 deg) | None | | | | | 54 | 110 | |
| 22 | Wind + Live Lm (120 deg) | None | | | | | 54 | 110 | |
| 23 | Wind + Live Lm (150 deg) | None | | | | | 54 | 110 | |
| 24 | Live Lv1 | None | | | | | 3 | | |
| 25 | Live Lv2 | None | | | | | 3 | | |



Basic Load Cases (Continued)

| BL C | Description | Category | X Gravity | Y Gravity | Z Gravity | Joint | Point | Distributed Area(Me | Surface(|
|------|----------------------------|----------|-----------|-----------|-----------|-------|-------|---------------------|----------|
| 26 | Live Lv3 | None | | | | | 3 | | |
| 27 | Seismic Antenna (0 deg) | None | | | | | 27 | | |
| 28 | Seismic Antenna (90 deg) | None | | | | | 27 | | |
| 29 | Seismic (0 deg) | None | -1 | -.04 | | | | | |
| 30 | Seismic (90 deg) | None | | -.04 | .1 | | | | |
| 31 | Seismic (30 deg) | None | -.086 | -.04 | .05 | | | | |
| 32 | Seismic (60 deg) | None | -.05 | -.04 | .086 | | | | |
| 33 | Seismic (120 deg) | None | .05 | -.04 | .086 | | | | |
| 34 | Seismic (150 deg) | None | .086 | -.04 | .05 | | | | |
| 35 | Seismic Vertical | None | | | | | 27 | | |
| 36 | BLC 1 Transient Area Loads | None | | | | | | 123 | |
| 37 | BLC 8 Transient Area Loads | None | | | | | | 123 | |

Load Combinations

| Description | S | P | S | B | Fa | B | Fa | B | Fa | B | Fa | B | Fa | B | Fa | B | Fa | B | Fa | B | Fa | B | Fa | B | |
|-----------------------------|-----|---|---|---|-----|----|-----|----|----|---|----|---|----|---|----|---|----|---|----|---|----|---|----|---|--|
| 1 1.4DL | Yes | Y | | 1 | 1.4 | | | | | | | | | | | | | | | | | | | | |
| 2 1.2DL+1.0WL(0) | Yes | Y | | 1 | 1.2 | 2 | 1 | | | | | | | | | | | | | | | | | | |
| 3 1.2DL+1.0WL(30) | Yes | Y | | 1 | 1.2 | 4 | 1 | | | | | | | | | | | | | | | | | | |
| 4 1.2DL+1.0WL(60) | Yes | Y | | 1 | 1.2 | 5 | 1 | | | | | | | | | | | | | | | | | | |
| 5 1.2DL+1.0WL(90) | Yes | Y | | 1 | 1.2 | 3 | 1 | | | | | | | | | | | | | | | | | | |
| 6 1.2DL+1.0WL(120) | Yes | Y | | 1 | 1.2 | 6 | 1 | | | | | | | | | | | | | | | | | | |
| 7 1.2DL+1.0WL(150) | Yes | Y | | 1 | 1.2 | 7 | 1 | | | | | | | | | | | | | | | | | | |
| 8 1.2DL+1.0WL(180) | Yes | Y | | 1 | 1.2 | 2 | -1 | | | | | | | | | | | | | | | | | | |
| 9 1.2DL+1.0WL(210) | Yes | Y | | 1 | 1.2 | 4 | -1 | | | | | | | | | | | | | | | | | | |
| 10 1.2DL+1.0WL(240) | Yes | Y | | 1 | 1.2 | 5 | -1 | | | | | | | | | | | | | | | | | | |
| 11 1.2DL+1.0WL(270) | Yes | Y | | 1 | 1.2 | 3 | -1 | | | | | | | | | | | | | | | | | | |
| 12 1.2DL+1.0WL(300) | Yes | Y | | 1 | 1.2 | 6 | -1 | | | | | | | | | | | | | | | | | | |
| 13 1.2DL+1.0WL(330) | Yes | Y | | 1 | 1.2 | 7 | -1 | | | | | | | | | | | | | | | | | | |
| 14 1.2DL+1.0DLi+1.0WLi(0) | Yes | Y | | 1 | 1.2 | 8 | 1 | 9 | 1 | | | | | | | | | | | | | | | | |
| 15 1.2DL+1.0DLi+1.0WLi(30) | Yes | Y | | 1 | 1.2 | 8 | 1 | 11 | 1 | | | | | | | | | | | | | | | | |
| 16 1.2DL+1.0DLi+1.0WLi(60) | Yes | Y | | 1 | 1.2 | 8 | 1 | 12 | 1 | | | | | | | | | | | | | | | | |
| 17 1.2DL+1.0DLi+1.0WLi(90) | Yes | Y | | 1 | 1.2 | 8 | 1 | 10 | 1 | | | | | | | | | | | | | | | | |
| 18 1.2DL+1.0DLi+1.0WLi(120) | Yes | Y | | 1 | 1.2 | 8 | 1 | 13 | 1 | | | | | | | | | | | | | | | | |
| 19 1.2DL+1.0DLi+1.0WLi(150) | Yes | Y | | 1 | 1.2 | 8 | 1 | 14 | 1 | | | | | | | | | | | | | | | | |
| 20 1.2DL+1.0DLi+1.0WLi(180) | Yes | Y | | 1 | 1.2 | 8 | 1 | 9 | -1 | | | | | | | | | | | | | | | | |
| 21 1.2DL+1.0DLi+1.0WLi(210) | Yes | Y | | 1 | 1.2 | 8 | 1 | 11 | -1 | | | | | | | | | | | | | | | | |
| 22 1.2DL+1.0DLi+1.0WLi(240) | Yes | Y | | 1 | 1.2 | 8 | 1 | 12 | -1 | | | | | | | | | | | | | | | | |
| 23 1.2DL+1.0DLi+1.0WLi(270) | Yes | Y | | 1 | 1.2 | 8 | 1 | 10 | -1 | | | | | | | | | | | | | | | | |
| 24 1.2DL+1.0DLi+1.0WLi(300) | Yes | Y | | 1 | 1.2 | 8 | 1 | 13 | -1 | | | | | | | | | | | | | | | | |
| 25 1.2DL+1.0DLi+1.0WLi(330) | Yes | Y | | 1 | 1.2 | 8 | 1 | 14 | -1 | | | | | | | | | | | | | | | | |
| 26 1.2DL+1.5LLm1+1.0WL(0) | Yes | Y | | 1 | 1.2 | 15 | 1.5 | 18 | 1 | | | | | | | | | | | | | | | | |
| 27 1.2DL+1.5LLm1+1.0WL(30) | Yes | Y | | 1 | 1.2 | 15 | 1.5 | 20 | 1 | | | | | | | | | | | | | | | | |
| 28 1.2DL+1.5LLm1+1.0WL(60) | Yes | Y | | 1 | 1.2 | 15 | 1.5 | 21 | 1 | | | | | | | | | | | | | | | | |
| 29 1.2DL+1.5LLm1+1.0WL(90) | Yes | Y | | 1 | 1.2 | 15 | 1.5 | 19 | 1 | | | | | | | | | | | | | | | | |
| 30 1.2DL+1.5LLm1+1.0WL(120) | Yes | Y | | 1 | 1.2 | 15 | 1.5 | 22 | 1 | | | | | | | | | | | | | | | | |
| 31 1.2DL+1.5LLm1+1.0WL(150) | Yes | Y | | 1 | 1.2 | 15 | 1.5 | 23 | 1 | | | | | | | | | | | | | | | | |
| 32 1.2DL+1.5LLm1+1.0WL(180) | Yes | Y | | 1 | 1.2 | 15 | 1.5 | 18 | -1 | | | | | | | | | | | | | | | | |
| 33 1.2DL+1.5LLm1+1.0WL(210) | Yes | Y | | 1 | 1.2 | 15 | 1.5 | 20 | -1 | | | | | | | | | | | | | | | | |
| 34 1.2DL+1.5LLm1+1.0WL(240) | Yes | Y | | 1 | 1.2 | 15 | 1.5 | 21 | -1 | | | | | | | | | | | | | | | | |
| 35 1.2DL+1.5LLm1+1.0WL(270) | Yes | Y | | 1 | 1.2 | 15 | 1.5 | 19 | -1 | | | | | | | | | | | | | | | | |
| 36 1.2DL+1.5LLm1+1.0WL(300) | Yes | Y | | 1 | 1.2 | 15 | 1.5 | 22 | -1 | | | | | | | | | | | | | | | | |
| 37 1.2DL+1.5LLm1+1.0WL(330) | Yes | Y | | 1 | 1.2 | 15 | 1.5 | 23 | -1 | | | | | | | | | | | | | | | | |
| 38 1.2DL+1.5LLm2+1.0WL(0) | Yes | Y | | 1 | 1.2 | 16 | 1.5 | 18 | 1 | | | | | | | | | | | | | | | | |
| 39 1.2DL+1.5LLm2+1.0WL(30) | Yes | Y | | 1 | 1.2 | 16 | 1.5 | 20 | 1 | | | | | | | | | | | | | | | | |
| 40 1.2DL+1.5LLm2+1.0WL(60) | Yes | Y | | 1 | 1.2 | 16 | 1.5 | 21 | 1 | | | | | | | | | | | | | | | | |



Load Combinations (Continued)

| | Description | S | P | S | B | Fa | B | Fa | B | Fa | B | Fa | B | Fa | B | Fa | B | Fa | B | Fa | B | Fa |
|----|--------------------------|-----|---|---|---|-----|----|-----|----|----|----|-------|----|-------|---|----|---|----|---|----|---|----|
| 41 | 1.2DL+1.5LLm2+1.0WL(90) | Yes | Y | | 1 | 1.2 | 16 | 1.5 | 19 | 1 | | | | | | | | | | | | |
| 42 | 1.2DL+1.5LLm2+1.0WL(12.. | Yes | Y | | 1 | 1.2 | 16 | 1.5 | 22 | 1 | | | | | | | | | | | | |
| 43 | 1.2DL+1.5LLm2+1.0WL(15.. | Yes | Y | | 1 | 1.2 | 16 | 1.5 | 23 | 1 | | | | | | | | | | | | |
| 44 | 1.2DL+1.5LLm2+1.0WL(18.. | Yes | Y | | 1 | 1.2 | 16 | 1.5 | 18 | -1 | | | | | | | | | | | | |
| 45 | 1.2DL+1.5LLm2+1.0WL(21.. | Yes | Y | | 1 | 1.2 | 16 | 1.5 | 20 | -1 | | | | | | | | | | | | |
| 46 | 1.2DL+1.5LLm2+1.0WL(24.. | Yes | Y | | 1 | 1.2 | 16 | 1.5 | 21 | -1 | | | | | | | | | | | | |
| 47 | 1.2DL+1.5LLm2+1.0WL(27.. | Yes | Y | | 1 | 1.2 | 16 | 1.5 | 19 | -1 | | | | | | | | | | | | |
| 48 | 1.2DL+1.5LLm2+1.0WL(30.. | Yes | Y | | 1 | 1.2 | 16 | 1.5 | 22 | -1 | | | | | | | | | | | | |
| 49 | 1.2DL+1.5LLm2+1.0WL(33.. | Yes | Y | | 1 | 1.2 | 16 | 1.5 | 23 | -1 | | | | | | | | | | | | |
| 50 | 1.2DL+1.5LLm3+1.0WL(0) | Yes | Y | | 1 | 1.2 | 17 | 1.5 | 18 | 1 | | | | | | | | | | | | |
| 51 | 1.2DL+1.5LLm3+1.0WL(30) | Yes | Y | | 1 | 1.2 | 17 | 1.5 | 20 | 1 | | | | | | | | | | | | |
| 52 | 1.2DL+1.5LLm3+1.0WL(60) | Yes | Y | | 1 | 1.2 | 17 | 1.5 | 21 | 1 | | | | | | | | | | | | |
| 53 | 1.2DL+1.5LLm3+1.0WL(90) | Yes | Y | | 1 | 1.2 | 17 | 1.5 | 19 | 1 | | | | | | | | | | | | |
| 54 | 1.2DL+1.5LLm3+1.0WL(12.. | Yes | Y | | 1 | 1.2 | 17 | 1.5 | 22 | 1 | | | | | | | | | | | | |
| 55 | 1.2DL+1.5LLm3+1.0WL(15.. | Yes | Y | | 1 | 1.2 | 17 | 1.5 | 23 | 1 | | | | | | | | | | | | |
| 56 | 1.2DL+1.5LLm3+1.0WL(18.. | Yes | Y | | 1 | 1.2 | 17 | 1.5 | 18 | -1 | | | | | | | | | | | | |
| 57 | 1.2DL+1.5LLm3+1.0WL(21.. | Yes | Y | | 1 | 1.2 | 17 | 1.5 | 20 | -1 | | | | | | | | | | | | |
| 58 | 1.2DL+1.5LLm3+1.0WL(24.. | Yes | Y | | 1 | 1.2 | 17 | 1.5 | 21 | -1 | | | | | | | | | | | | |
| 59 | 1.2DL+1.5LLm3+1.0WL(27.. | Yes | Y | | 1 | 1.2 | 17 | 1.5 | 19 | -1 | | | | | | | | | | | | |
| 60 | 1.2DL+1.5LLm3+1.0WL(30.. | Yes | Y | | 1 | 1.2 | 17 | 1.5 | 22 | -1 | | | | | | | | | | | | |
| 61 | 1.2DL+1.5LLm3+1.0WL(33.. | Yes | Y | | 1 | 1.2 | 17 | 1.5 | 23 | -1 | | | | | | | | | | | | |
| 62 | 1.2DL+1.5Llv1 | Yes | Y | | 1 | 1.2 | 24 | 1.5 | | | | | | | | | | | | | | |
| 63 | 1.2DL+1.5Llv2 | Yes | Y | | 1 | 1.2 | 25 | 1.5 | | | | | | | | | | | | | | |
| 64 | 1.2DL+1.5Llv3 | Yes | Y | | 1 | 1.2 | 26 | 1.5 | | | | | | | | | | | | | | |
| 65 | 1.2DL+1.0Ev+1.0Eh(0) | Yes | Y | | 1 | 1.2 | 35 | 1 | 29 | 1 | 27 | 1 | 28 | | | | | | | | | |
| 66 | 1.2DL+1.0Ev+1.0Eh(30) | Yes | Y | | 1 | 1.2 | 35 | 1 | 31 | 1 | 27 | .867 | 28 | .5 | | | | | | | | |
| 67 | 1.2DL+1.0Ev+1.0Eh(60) | Yes | Y | | 1 | 1.2 | 35 | 1 | 32 | 1 | 27 | .5 | 28 | .866 | | | | | | | | |
| 68 | 1.2DL+1.0Ev+1.0Eh(90) | Yes | Y | | 1 | 1.2 | 35 | 1 | 30 | 1 | 27 | | 28 | 1 | | | | | | | | |
| 69 | 1.2DL+1.0Ev+1.0Eh(120) | Yes | Y | | 1 | 1.2 | 35 | 1 | 33 | 1 | 27 | -.5 | 28 | .866 | | | | | | | | |
| 70 | 1.2DL+1.0Ev+1.0Eh(150) | Yes | Y | | 1 | 1.2 | 35 | 1 | 34 | 1 | 27 | -.867 | 28 | .5 | | | | | | | | |
| 71 | 1.2DL+1.0Ev+1.0Eh(180) | Yes | Y | | 1 | 1.2 | 35 | 1 | 29 | -1 | 27 | -1 | 28 | | | | | | | | | |
| 72 | 1.2DL+1.0Ev+1.0Eh(210) | Yes | Y | | 1 | 1.2 | 35 | 1 | 31 | -1 | 27 | -.866 | 28 | -.5 | | | | | | | | |
| 73 | 1.2DL+1.0Ev+1.0Eh(240) | Yes | Y | | 1 | 1.2 | 35 | 1 | 32 | -1 | 27 | -.5 | 28 | -.866 | | | | | | | | |
| 74 | 1.2DL+1.0Ev+1.0Eh(270) | Yes | Y | | 1 | 1.2 | 35 | 1 | 30 | -1 | 27 | | 28 | -1 | | | | | | | | |
| 75 | 1.2DL+1.0Ev+1.0Eh(300) | Yes | Y | | 1 | 1.2 | 35 | 1 | 33 | -1 | 27 | .5 | 28 | -.866 | | | | | | | | |
| 76 | 1.2DL+1.0Ev+1.0Eh(330) | Yes | Y | | 1 | 1.2 | 35 | 1 | 34 | -1 | 27 | .866 | 28 | -.5 | | | | | | | | |

Joint Boundary Conditions

| Joint Label | X [k/in] | Y [k/in] | Z [k/in] | X Rot [k-ft/rad] | Y Rot [k-ft/rad] | Z Rot [k-ft/rad] |
|-------------|----------|----------|----------|------------------|------------------|------------------|
| 1 | N120 | Reaction | Reaction | Reaction | Reaction | Reaction |
| 2 | N121 | Reaction | Reaction | Reaction | Reaction | Reaction |
| 3 | N31 | Reaction | Reaction | Reaction | Reaction | Reaction |
| 4 | N30 | Reaction | Reaction | Reaction | Reaction | Reaction |
| 5 | N83 | Reaction | Reaction | Reaction | Reaction | Reaction |
| 6 | N82 | Reaction | Reaction | Reaction | Reaction | Reaction |
| 7 | N86 | Reaction | Reaction | Reaction | Reaction | Reaction |
| 8 | N125 | Reaction | Reaction | Reaction | Reaction | Reaction |
| 9 | N124 | Reaction | Reaction | Reaction | Reaction | Reaction |
| 10 | N39 | Reaction | Reaction | Reaction | Reaction | Reaction |
| 11 | N38 | Reaction | Reaction | Reaction | Reaction | Reaction |
| 12 | N87 | Reaction | Reaction | Reaction | Reaction | Reaction |

Envelope Joint Reactions

| | Joint | | X [lb] | I.C. | Y [lb] | I.C. | Z [lb] | I.C. | MX [lb-ft] | I.C. | MY [lb-ft] | I.C. | MZ [lb-ft] | I.C. |
|----|---------|-----|-----------|------|----------|------|-----------|------|------------|------|------------|------|------------|------|
| 1 | N120 | max | 86.031 | 7 | 36.69 | 24 | 1709.717 | 12 | -8.353 | 6 | 206.571 | 11 | 7.206 | 7 |
| 2 | | min | -101.724 | 5 | 14.799 | 6 | -649.444 | 6 | -23.793 | 24 | -208.789 | 5 | -7.3 | 13 |
| 3 | N121 | max | 820.284 | 2 | 42.115 | 21 | 842.95 | 7 | 3.631 | 13 | 205.582 | 11 | -7.1 | 2 |
| 4 | | min | -1372.792 | 8 | 11.552 | 2 | -519.687 | 13 | -14.021 | 19 | -208.741 | 5 | -24.449 | 21 |
| 5 | N31 | max | 1117.879 | 12 | 35.61 | 24 | 639.554 | 12 | -2.274 | 11 | 194.364 | 11 | 15.159 | 24 |
| 6 | | min | -796.725 | 6 | 7.373 | 6 | -470.561 | 6 | -15.167 | 17 | -198.776 | 5 | -4.127 | 6 |
| 7 | N30 | max | 1201.52 | 5 | 25.501 | 17 | 177.323 | 12 | 4.139 | 8 | 202.056 | 11 | 14.526 | 5 |
| 8 | | min | -300.648 | 11 | 2.148 | 11 | -659.832 | 6 | -3.168 | 2 | -205.454 | 5 | -4.38 | 11 |
| 9 | N83 | max | 50.924 | 13 | 41.225 | 17 | 1208.484 | 10 | 26.936 | 17 | 205.953 | 11 | 6.69 | 9 |
| 10 | | min | -97.071 | 11 | 11.299 | 10 | -1919.005 | 4 | 3.988 | 10 | -210.429 | 5 | -4.429 | 3 |
| 11 | N82 | max | 800.09 | 3 | 36.253 | 20 | 463.723 | 3 | 13.814 | 21 | 202.965 | 11 | -5.559 | 11 |
| 12 | | min | -1383.134 | 9 | 12.871 | 11 | -826.528 | 9 | -1.049 | 3 | -205.283 | 5 | -19.039 | 17 |
| 13 | N86 | max | 2039.963 | 13 | 1538.818 | 24 | 1170.377 | 12 | 62.95 | 5 | 321.594 | 11 | 31.694 | 13 |
| 14 | | min | -1111.77 | 7 | -192.701 | 6 | -627.59 | 6 | -53.918 | 11 | -323.004 | 5 | -46.04 | 7 |
| 15 | N125 | max | 1551.391 | 4 | 1423.69 | 16 | 467.007 | 10 | 49.138 | 5 | 301.155 | 11 | 19.475 | 11 |
| 16 | | min | -694.365 | 10 | -197.181 | 10 | -1013.384 | 4 | -57.076 | 11 | -304.668 | 5 | -32.59 | 5 |
| 17 | N124 | max | 129.34 | 11 | 1812.971 | 16 | 991.081 | 11 | 11.988 | 5 | 325.28 | 11 | 60.115 | 11 |
| 18 | | min | -156.213 | 5 | 66.094 | 10 | -2417.267 | 5 | -31.618 | 11 | -334.73 | 5 | -60.712 | 5 |
| 19 | N39 | max | 795.528 | 13 | 901.555 | 18 | 568.73 | 13 | 41.001 | 11 | 248.567 | 7 | 46.964 | 7 |
| 20 | | min | -1412.754 | 7 | -107.307 | 13 | -948.625 | 7 | -54.094 | 5 | -237.747 | 13 | -16.901 | 13 |
| 21 | N38 | max | 1303.225 | 3 | 2076.055 | 9 | 1371.578 | 9 | 57.335 | 11 | 235.871 | 11 | 47.699 | 13 |
| 22 | | min | -2514.461 | 9 | -543.586 | 3 | -720.553 | 3 | -40.405 | 5 | -231.373 | 5 | -24.135 | 7 |
| 23 | N87 | max | 159.155 | 13 | 1418.192 | 25 | 1855.56 | 11 | 21.682 | 17 | 337.394 | 11 | 59.286 | 5 |
| 24 | | min | -163.171 | 11 | -119.904 | 7 | -757.154 | 5 | -1.097 | 11 | -335.756 | 5 | -58.546 | 11 |
| 25 | Totals: | max | 7175.549 | 2 | 8077.618 | 22 | 7552.095 | 11 | | | | | | |
| 26 | | min | -7175.551 | 8 | 3794.141 | 4 | -7552.091 | 5 | | | | | | |

Member Point Loads (BLC 1 : Dead)

| | Member Label | Direction | Magnitude [lb, lb-ft] | Location [in, %] |
|----|--------------|-----------|-----------------------|------------------|
| 1 | M15 | Y | -76.6 | %10 |
| 2 | M15 | Y | -76.6 | %90 |
| 3 | M18 | Y | -68 | %10 |
| 4 | M18 | Y | -68 | %90 |
| 5 | M11 | Y | -70.9 | %10 |
| 6 | M11 | Y | -70.9 | %90 |
| 7 | M14 | Y | -56.3 | %10 |
| 8 | M14 | Y | -56.3 | %90 |
| 9 | M11 | Y | -20 | %80 |
| 10 | M63 | Y | -76.6 | %10 |
| 11 | M63 | Y | -76.6 | %90 |
| 12 | M103 | Y | -68 | %10 |
| 13 | M103 | Y | -68 | %90 |
| 14 | M59 | Y | -70.9 | %10 |
| 15 | M59 | Y | -70.9 | %90 |
| 16 | M62 | Y | -56.3 | %10 |
| 17 | M62 | Y | -56.3 | %90 |
| 18 | M59 | Y | -20 | %80 |
| 19 | M42 | Y | -76.6 | %10 |
| 20 | M42 | Y | -76.6 | %90 |
| 21 | M100 | Y | -68 | %10 |
| 22 | M100 | Y | -68 | %90 |
| 23 | M38 | Y | -70.9 | %10 |
| 24 | M38 | Y | -70.9 | %90 |
| 25 | M41 | Y | -56.3 | %10 |



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Member Point Loads (BLC 1 : Dead) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[in, %] |
|----|--------------|-----------|---------------------|-----------------|
| 26 | M41 | Y | -56.3 | %90 |
| 27 | M38 | Y | -20 | %80 |

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

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[in, %] |
|----|--------------|-----------|---------------------|-----------------|
| 1 | M15 | X | -231.3 | %10 |
| 2 | M15 | X | -231.3 | %90 |
| 3 | M18 | X | -349.1 | %10 |
| 4 | M18 | X | -349.1 | %90 |
| 5 | M11 | X | -345.3 | %10 |
| 6 | M11 | X | -345.3 | %90 |
| 7 | M14 | X | -125.2 | %10 |
| 8 | M14 | X | -125.2 | %90 |
| 9 | M11 | X | -27.7 | %80 |
| 10 | M63 | X | -201.7 | %10 |
| 11 | M63 | X | -201.7 | %90 |
| 12 | M103 | X | -202 | %10 |
| 13 | M103 | X | -202 | %90 |
| 14 | M59 | X | -198.4 | %10 |
| 15 | M59 | X | -198.4 | %90 |
| 16 | M62 | X | -81.3 | %10 |
| 17 | M62 | X | -81.3 | %90 |
| 18 | M59 | X | -27.7 | %80 |
| 19 | M42 | X | -201.7 | %10 |
| 20 | M42 | X | -201.7 | %90 |
| 21 | M100 | X | -202 | %10 |
| 22 | M100 | X | -202 | %90 |
| 23 | M38 | X | -198.4 | %10 |
| 24 | M38 | X | -198.4 | %90 |
| 25 | M41 | X | -81.3 | %10 |
| 26 | M41 | X | -81.3 | %90 |
| 27 | M38 | X | -27.7 | %80 |

Member Point Loads (BLC 3 : Wind (90 deg))

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[in, %] |
|----|--------------|-----------|---------------------|-----------------|
| 1 | M15 | Z | 191.9 | %10 |
| 2 | M15 | Z | 191.9 | %90 |
| 3 | M18 | Z | 152.9 | %10 |
| 4 | M18 | Z | 152.9 | %90 |
| 5 | M11 | Z | 149.5 | %10 |
| 6 | M11 | Z | 149.5 | %90 |
| 7 | M14 | Z | 66.6 | %10 |
| 8 | M14 | Z | 66.6 | %90 |
| 9 | M11 | Z | 27.7 | %80 |
| 10 | M63 | Z | 221.4 | %10 |
| 11 | M63 | Z | 221.4 | %90 |
| 12 | M103 | Z | 300.1 | %10 |
| 13 | M103 | Z | 300.1 | %90 |
| 14 | M59 | Z | 296.3 | %10 |
| 15 | M59 | Z | 296.3 | %90 |
| 16 | M62 | Z | 110.6 | %10 |
| 17 | M62 | Z | 110.6 | %90 |
| 18 | M59 | Z | 27.7 | %80 |
| 19 | M42 | Z | 221.4 | %10 |
| 20 | M42 | Z | 221.4 | %90 |
| 21 | M100 | Z | 300.1 | %10 |



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Member Point Loads (BLC 3 : Wind (90 deg)) (Continued)

| | Member Label | Direction | Magnitude[lb lb-ft] | Location[in %] |
|----|--------------|-----------|---------------------|----------------|
| 22 | M100 | Z | 300.1 | %90 |
| 23 | M38 | Z | 296.3 | %10 |
| 24 | M38 | Z | 296.3 | %90 |
| 25 | M41 | Z | 110.6 | %10 |
| 26 | M41 | Z | 110.6 | %90 |
| 27 | M38 | Z | 27.7 | %80 |

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

| | Member Label | Direction | Magnitude[lb lb-ft] | Location[in %] |
|----|--------------|-----------|---------------------|----------------|
| 1 | M15 | X | -191.7 | %10 |
| 2 | M15 | X | -191.7 | %90 |
| 3 | M18 | X | -259.9 | %10 |
| 4 | M18 | X | -259.9 | %90 |
| 5 | M11 | X | -256.6 | %10 |
| 6 | M11 | X | -256.6 | %90 |
| 7 | M14 | X | -95.7 | %10 |
| 8 | M14 | X | -95.7 | %90 |
| 9 | M11 | X | -24 | %80 |
| 10 | M63 | X | -166.2 | %10 |
| 11 | M63 | X | -166.2 | %90 |
| 12 | M103 | X | -132.4 | %10 |
| 13 | M103 | X | -132.4 | %90 |
| 14 | M59 | X | -129.4 | %10 |
| 15 | M59 | X | -129.4 | %90 |
| 16 | M62 | X | -57.7 | %10 |
| 17 | M62 | X | -57.7 | %90 |
| 18 | M59 | X | -24 | %80 |
| 19 | M42 | X | -191.7 | %10 |
| 20 | M42 | X | -191.7 | %90 |
| 21 | M100 | X | -259.9 | %10 |
| 22 | M100 | X | -259.9 | %90 |
| 23 | M38 | X | -256.6 | %10 |
| 24 | M38 | X | -256.6 | %90 |
| 25 | M41 | X | -95.7 | %10 |
| 26 | M41 | X | -95.7 | %90 |
| 27 | M38 | X | -24 | %80 |
| 28 | M15 | Z | 110.7 | %10 |
| 29 | M15 | Z | 110.7 | %90 |
| 30 | M18 | Z | 150 | %10 |
| 31 | M18 | Z | 150 | %90 |
| 32 | M11 | Z | 148.2 | %10 |
| 33 | M11 | Z | 148.2 | %90 |
| 34 | M14 | Z | 55.3 | %10 |
| 35 | M14 | Z | 55.3 | %90 |
| 36 | M11 | Z | 13.9 | %80 |
| 37 | M63 | Z | 95.9 | %10 |
| 38 | M63 | Z | 95.9 | %90 |
| 39 | M103 | Z | 76.5 | %10 |
| 40 | M103 | Z | 76.5 | %90 |
| 41 | M59 | Z | 74.7 | %10 |
| 42 | M59 | Z | 74.7 | %90 |
| 43 | M62 | Z | 33.3 | %10 |
| 44 | M62 | Z | 33.3 | %90 |
| 45 | M59 | Z | 13.9 | %80 |
| 46 | M42 | Z | 110.7 | %10 |
| 47 | M42 | Z | 110.7 | %90 |



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

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[in, %] |
|----|--------------|-----------|---------------------|-----------------|
| 48 | M100 | Z | 150 | %10 |
| 49 | M100 | Z | 150 | %90 |
| 50 | M38 | Z | 148.2 | %10 |
| 51 | M38 | Z | 148.2 | %90 |
| 52 | M41 | Z | 55.3 | %10 |
| 53 | M41 | Z | 55.3 | %90 |
| 54 | M38 | Z | 13.9 | %80 |

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

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[in, %] |
|----|--------------|-----------|---------------------|-----------------|
| 1 | M15 | X | -100.9 | %10 |
| 2 | M15 | X | -100.9 | %90 |
| 3 | M18 | X | -101 | %10 |
| 4 | M18 | X | -101 | %90 |
| 5 | M11 | X | -99.2 | %10 |
| 6 | M11 | X | -99.2 | %90 |
| 7 | M14 | X | -40.6 | %10 |
| 8 | M14 | X | -40.6 | %90 |
| 9 | M11 | X | -13.9 | %80 |
| 10 | M63 | X | -100.9 | %10 |
| 11 | M63 | X | -100.9 | %90 |
| 12 | M103 | X | -101 | %10 |
| 13 | M103 | X | -101 | %90 |
| 14 | M59 | X | -99.2 | %10 |
| 15 | M59 | X | -99.2 | %90 |
| 16 | M62 | X | -40.6 | %10 |
| 17 | M62 | X | -40.6 | %90 |
| 18 | M59 | X | -13.9 | %80 |
| 19 | M42 | X | -115.6 | %10 |
| 20 | M42 | X | -115.6 | %90 |
| 21 | M100 | X | -174.6 | %10 |
| 22 | M100 | X | -174.6 | %90 |
| 23 | M38 | X | -172.7 | %10 |
| 24 | M38 | X | -172.7 | %90 |
| 25 | M41 | X | -62.6 | %10 |
| 26 | M41 | X | -62.6 | %90 |
| 27 | M38 | X | -13.9 | %80 |
| 28 | M15 | Z | 174.7 | %10 |
| 29 | M15 | Z | 174.7 | %90 |
| 30 | M18 | Z | 174.9 | %10 |
| 31 | M18 | Z | 174.9 | %90 |
| 32 | M11 | Z | 171.8 | %10 |
| 33 | M11 | Z | 171.8 | %90 |
| 34 | M14 | Z | 70.4 | %10 |
| 35 | M14 | Z | 70.4 | %90 |
| 36 | M11 | Z | 24 | %80 |
| 37 | M63 | Z | 174.7 | %10 |
| 38 | M63 | Z | 174.7 | %90 |
| 39 | M103 | Z | 174.9 | %10 |
| 40 | M103 | Z | 174.9 | %90 |
| 41 | M59 | Z | 171.8 | %10 |
| 42 | M59 | Z | 171.8 | %90 |
| 43 | M62 | Z | 70.4 | %10 |
| 44 | M62 | Z | 70.4 | %90 |
| 45 | M59 | Z | 24 | %80 |
| 46 | M42 | Z | 200.3 | %10 |



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

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[in, %] |
|----|--------------|-----------|---------------------|-----------------|
| 47 | M42 | Z | 200.3 | %90 |
| 48 | M100 | Z | 302.3 | %10 |
| 49 | M100 | Z | 302.3 | %90 |
| 50 | M38 | Z | 299 | %10 |
| 51 | M38 | Z | 299 | %90 |
| 52 | M41 | Z | 108.4 | %10 |
| 53 | M41 | Z | 108.4 | %90 |
| 54 | M38 | Z | 24 | %80 |

Member Point Loads (BLC 6 : Wind (120 deg))

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[in, %] |
|----|--------------|-----------|---------------------|-----------------|
| 1 | M15 | X | 100.9 | %10 |
| 2 | M15 | X | 100.9 | %90 |
| 3 | M18 | X | 101 | %10 |
| 4 | M18 | X | 101 | %90 |
| 5 | M11 | X | 99.2 | %10 |
| 6 | M11 | X | 99.2 | %90 |
| 7 | M14 | X | 40.6 | %10 |
| 8 | M14 | X | 40.6 | %90 |
| 9 | M11 | X | 13.9 | %80 |
| 10 | M63 | X | 100.9 | %10 |
| 11 | M63 | X | 100.9 | %90 |
| 12 | M103 | X | 101 | %10 |
| 13 | M103 | X | 101 | %90 |
| 14 | M59 | X | 99.2 | %10 |
| 15 | M59 | X | 99.2 | %90 |
| 16 | M62 | X | 40.6 | %10 |
| 17 | M62 | X | 40.6 | %90 |
| 18 | M59 | X | 13.9 | %80 |
| 19 | M42 | X | 115.6 | %10 |
| 20 | M42 | X | 115.6 | %90 |
| 21 | M100 | X | 174.6 | %10 |
| 22 | M100 | X | 174.6 | %90 |
| 23 | M38 | X | 172.7 | %10 |
| 24 | M38 | X | 172.7 | %90 |
| 25 | M41 | X | 62.6 | %10 |
| 26 | M41 | X | 62.6 | %90 |
| 27 | M38 | X | 13.9 | %80 |
| 28 | M15 | Z | 174.7 | %10 |
| 29 | M15 | Z | 174.7 | %90 |
| 30 | M18 | Z | 174.9 | %10 |
| 31 | M18 | Z | 174.9 | %90 |
| 32 | M11 | Z | 171.8 | %10 |
| 33 | M11 | Z | 171.8 | %90 |
| 34 | M14 | Z | 70.4 | %10 |
| 35 | M14 | Z | 70.4 | %90 |
| 36 | M11 | Z | 24 | %80 |
| 37 | M63 | Z | 174.7 | %10 |
| 38 | M63 | Z | 174.7 | %90 |
| 39 | M103 | Z | 174.9 | %10 |
| 40 | M103 | Z | 174.9 | %90 |
| 41 | M59 | Z | 171.8 | %10 |
| 42 | M59 | Z | 171.8 | %90 |
| 43 | M62 | Z | 70.4 | %10 |
| 44 | M62 | Z | 70.4 | %90 |
| 45 | M59 | Z | 24 | %80 |



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Member Point Loads (BLC 6 : Wind (120 deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[in, %] |
|----|--------------|-----------|---------------------|-----------------|
| 46 | M42 | Z | 200.3 | %10 |
| 47 | M42 | Z | 200.3 | %90 |
| 48 | M100 | Z | 302.3 | %10 |
| 49 | M100 | Z | 302.3 | %90 |
| 50 | M38 | Z | 299 | %10 |
| 51 | M38 | Z | 299 | %90 |
| 52 | M41 | Z | 108.4 | %10 |
| 53 | M41 | Z | 108.4 | %90 |
| 54 | M38 | Z | 24 | %80 |

Member Point Loads (BLC 7 : Wind (150 deg))

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[in, %] |
|----|--------------|-----------|---------------------|-----------------|
| 1 | M15 | X | 191.7 | %10 |
| 2 | M15 | X | 191.7 | %90 |
| 3 | M18 | X | 259.9 | %10 |
| 4 | M18 | X | 259.9 | %90 |
| 5 | M11 | X | 256.6 | %10 |
| 6 | M11 | X | 256.6 | %90 |
| 7 | M14 | X | 95.7 | %10 |
| 8 | M14 | X | 95.7 | %90 |
| 9 | M11 | X | 24 | %80 |
| 10 | M63 | X | 166.2 | %10 |
| 11 | M63 | X | 166.2 | %90 |
| 12 | M103 | X | 132.4 | %10 |
| 13 | M103 | X | 132.4 | %90 |
| 14 | M59 | X | 129.4 | %10 |
| 15 | M59 | X | 129.4 | %90 |
| 16 | M62 | X | 57.7 | %10 |
| 17 | M62 | X | 57.7 | %90 |
| 18 | M59 | X | 24 | %80 |
| 19 | M42 | X | 191.7 | %10 |
| 20 | M42 | X | 191.7 | %90 |
| 21 | M100 | X | 259.9 | %10 |
| 22 | M100 | X | 259.9 | %90 |
| 23 | M38 | X | 256.6 | %10 |
| 24 | M38 | X | 256.6 | %90 |
| 25 | M41 | X | 95.7 | %10 |
| 26 | M41 | X | 95.7 | %90 |
| 27 | M38 | X | 24 | %80 |
| 28 | M15 | Z | 110.7 | %10 |
| 29 | M15 | Z | 110.7 | %90 |
| 30 | M18 | Z | 150 | %10 |
| 31 | M18 | Z | 150 | %90 |
| 32 | M11 | Z | 148.2 | %10 |
| 33 | M11 | Z | 148.2 | %90 |
| 34 | M14 | Z | 55.3 | %10 |
| 35 | M14 | Z | 55.3 | %90 |
| 36 | M11 | Z | 13.9 | %80 |
| 37 | M63 | Z | 95.9 | %10 |
| 38 | M63 | Z | 95.9 | %90 |
| 39 | M103 | Z | 76.5 | %10 |
| 40 | M103 | Z | 76.5 | %90 |
| 41 | M59 | Z | 74.7 | %10 |
| 42 | M59 | Z | 74.7 | %90 |
| 43 | M62 | Z | 33.3 | %10 |
| 44 | M62 | Z | 33.3 | %90 |



Member Point Loads (BLC 7 : Wind (150 deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[in, %] |
|----|--------------|-----------|---------------------|-----------------|
| 45 | M59 | Z | 13.9 | %80 |
| 46 | M42 | Z | 110.7 | %10 |
| 47 | M42 | Z | 110.7 | %90 |
| 48 | M100 | Z | 150 | %10 |
| 49 | M100 | Z | 150 | %90 |
| 50 | M38 | Z | 148.2 | %10 |
| 51 | M38 | Z | 148.2 | %90 |
| 52 | M41 | Z | 55.3 | %10 |
| 53 | M41 | Z | 55.3 | %90 |
| 54 | M38 | Z | 13.9 | %80 |

Member Point Loads (BLC 8 : Dead Ice)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[in, %] |
|----|--------------|-----------|---------------------|-----------------|
| 1 | M15 | Y | -105.6 | %10 |
| 2 | M15 | Y | -105.6 | %90 |
| 3 | M18 | Y | -129.8 | %10 |
| 4 | M18 | Y | -129.8 | %90 |
| 5 | M11 | Y | -127.6 | %10 |
| 6 | M11 | Y | -127.6 | %90 |
| 7 | M14 | Y | -52.6 | %10 |
| 8 | M14 | Y | -52.6 | %90 |
| 9 | M11 | Y | -35.7 | %80 |
| 10 | M63 | Y | -105.6 | %10 |
| 11 | M63 | Y | -105.6 | %90 |
| 12 | M103 | Y | -129.8 | %10 |
| 13 | M103 | Y | -129.8 | %90 |
| 14 | M59 | Y | -127.6 | %10 |
| 15 | M59 | Y | -127.6 | %90 |
| 16 | M62 | Y | -52.6 | %10 |
| 17 | M62 | Y | -52.6 | %90 |
| 18 | M59 | Y | -35.7 | %80 |
| 19 | M42 | Y | -105.6 | %10 |
| 20 | M42 | Y | -105.6 | %90 |
| 21 | M100 | Y | -129.8 | %10 |
| 22 | M100 | Y | -129.8 | %90 |
| 23 | M38 | Y | -127.6 | %10 |
| 24 | M38 | Y | -127.6 | %90 |
| 25 | M41 | Y | -52.6 | %10 |
| 26 | M41 | Y | -52.6 | %90 |
| 27 | M38 | Y | -35.7 | %80 |

Member Point Loads (BLC 9 : Wind + Ice (0 deg))

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[in, %] |
|----|--------------|-----------|---------------------|-----------------|
| 1 | M15 | X | -48.7 | %10 |
| 2 | M15 | X | -48.7 | %90 |
| 3 | M18 | X | -69.1 | %10 |
| 4 | M18 | X | -69.1 | %90 |
| 5 | M11 | X | -68.4 | %10 |
| 6 | M11 | X | -68.4 | %90 |
| 7 | M14 | X | -27.1 | %10 |
| 8 | M14 | X | -27.1 | %90 |
| 9 | M11 | X | -8.9 | %80 |
| 10 | M63 | X | -45.1 | %10 |
| 11 | M63 | X | -45.1 | %90 |
| 12 | M103 | X | -43.1 | %10 |
| 13 | M103 | X | -43.1 | %90 |



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Member Point Loads (BLC 9 : Wind + Ice (0 deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[in, %] |
|----|--------------|-----------|---------------------|-----------------|
| 14 | M59 | X | -42.4 | %10 |
| 15 | M59 | X | -42.4 | %90 |
| 16 | M62 | X | -19.5 | %10 |
| 17 | M62 | X | -19.5 | %90 |
| 18 | M59 | X | -8.9 | %80 |
| 19 | M42 | X | -45.1 | %10 |
| 20 | M42 | X | -45.1 | %90 |
| 21 | M100 | X | -43.1 | %10 |
| 22 | M100 | X | -43.1 | %90 |
| 23 | M38 | X | -42.4 | %10 |
| 24 | M38 | X | -42.4 | %90 |
| 25 | M41 | X | -19.5 | %10 |
| 26 | M41 | X | -19.5 | %90 |
| 27 | M38 | X | -8.9 | %80 |

Member Point Loads (BLC 10 : Wind + Ice (90 deg))

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[in, %] |
|----|--------------|-----------|---------------------|-----------------|
| 1 | M15 | Z | 43.9 | %10 |
| 2 | M15 | Z | 43.9 | %90 |
| 3 | M18 | Z | 34.4 | %10 |
| 4 | M18 | Z | 34.4 | %90 |
| 5 | M11 | Z | 33.8 | %10 |
| 6 | M11 | Z | 33.8 | %90 |
| 7 | M14 | Z | 17 | %10 |
| 8 | M14 | Z | 17 | %90 |
| 9 | M11 | Z | 8.9 | %80 |
| 10 | M63 | Z | 47.5 | %10 |
| 11 | M63 | Z | 47.5 | %90 |
| 12 | M103 | Z | 60.4 | %10 |
| 13 | M103 | Z | 60.4 | %90 |
| 14 | M59 | Z | 59.7 | %10 |
| 15 | M59 | Z | 59.7 | %90 |
| 16 | M62 | Z | 24.6 | %10 |
| 17 | M62 | Z | 24.6 | %90 |
| 18 | M59 | Z | 8.9 | %80 |
| 19 | M42 | Z | 47.5 | %10 |
| 20 | M42 | Z | 47.5 | %90 |
| 21 | M100 | Z | 60.4 | %10 |
| 22 | M100 | Z | 60.4 | %90 |
| 23 | M38 | Z | 59.7 | %10 |
| 24 | M38 | Z | 59.7 | %90 |
| 25 | M41 | Z | 24.6 | %10 |
| 26 | M41 | Z | 24.6 | %90 |
| 27 | M38 | Z | 8.9 | %80 |

Member Point Loads (BLC 11 : Wind + Ice (30 deg))

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[in, %] |
|---|--------------|-----------|---------------------|-----------------|
| 1 | M15 | X | -41.1 | %10 |
| 2 | M15 | X | -41.1 | %90 |
| 3 | M18 | X | -52.3 | %10 |
| 4 | M18 | X | -52.3 | %90 |
| 5 | M11 | X | -51.7 | %10 |
| 6 | M11 | X | -51.7 | %90 |
| 7 | M14 | X | -21.3 | %10 |
| 8 | M14 | X | -21.3 | %90 |
| 9 | M11 | X | -7.7 | %80 |



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Member Point Loads (BLC 11 : Wind + Ice (30 deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[in, %] |
|----|--------------|-----------|---------------------|-----------------|
| 10 | M63 | X | -38 | %10 |
| 11 | M63 | X | -38 | %90 |
| 12 | M103 | X | -29.8 | %10 |
| 13 | M103 | X | -29.8 | %90 |
| 14 | M59 | X | -29.2 | %10 |
| 15 | M59 | X | -29.2 | %90 |
| 16 | M62 | X | -14.7 | %10 |
| 17 | M62 | X | -14.7 | %90 |
| 18 | M59 | X | -7.7 | %80 |
| 19 | M42 | X | -41.1 | %10 |
| 20 | M42 | X | -41.1 | %90 |
| 21 | M100 | X | -52.3 | %10 |
| 22 | M100 | X | -52.3 | %90 |
| 23 | M38 | X | -51.7 | %10 |
| 24 | M38 | X | -51.7 | %90 |
| 25 | M41 | X | -21.3 | %10 |
| 26 | M41 | X | -21.3 | %90 |
| 27 | M38 | X | -7.7 | %80 |
| 28 | M15 | Z | 23.8 | %10 |
| 29 | M15 | Z | 23.8 | %90 |
| 30 | M18 | Z | 30.2 | %10 |
| 31 | M18 | Z | 30.2 | %90 |
| 32 | M11 | Z | 29.9 | %10 |
| 33 | M11 | Z | 29.9 | %90 |
| 34 | M14 | Z | 12.3 | %10 |
| 35 | M14 | Z | 12.3 | %90 |
| 36 | M11 | Z | 4.4 | %80 |
| 37 | M63 | Z | 21.9 | %10 |
| 38 | M63 | Z | 21.9 | %90 |
| 39 | M103 | Z | 17.2 | %10 |
| 40 | M103 | Z | 17.2 | %90 |
| 41 | M59 | Z | 16.9 | %10 |
| 42 | M59 | Z | 16.9 | %90 |
| 43 | M62 | Z | 8.5 | %10 |
| 44 | M62 | Z | 8.5 | %90 |
| 45 | M59 | Z | 4.4 | %80 |
| 46 | M42 | Z | 23.8 | %10 |
| 47 | M42 | Z | 23.8 | %90 |
| 48 | M100 | Z | 30.2 | %10 |
| 49 | M100 | Z | 30.2 | %90 |
| 50 | M38 | Z | 29.9 | %10 |
| 51 | M38 | Z | 29.9 | %90 |
| 52 | M41 | Z | 12.3 | %10 |
| 53 | M41 | Z | 12.3 | %90 |
| 54 | M38 | Z | 4.4 | %80 |

Member Point Loads (BLC 12 : Wind + Ice (60 deg))

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[in, %] |
|---|--------------|-----------|---------------------|-----------------|
| 1 | M15 | X | -22.5 | %10 |
| 2 | M15 | X | -22.5 | %90 |
| 3 | M18 | X | -21.5 | %10 |
| 4 | M18 | X | -21.5 | %90 |
| 5 | M11 | X | -21.2 | %10 |
| 6 | M11 | X | -21.2 | %90 |
| 7 | M14 | X | -9.7 | %10 |
| 8 | M14 | X | -9.7 | %90 |



Member Point Loads (BLC 12 : Wind + Ice (60 deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[in, %] |
|----|--------------|-----------|---------------------|-----------------|
| 9 | M11 | X | -4.4 | %80 |
| 10 | M63 | X | -22.5 | %10 |
| 11 | M63 | X | -22.5 | %90 |
| 12 | M103 | X | -21.5 | %10 |
| 13 | M103 | X | -21.5 | %90 |
| 14 | M59 | X | -21.2 | %10 |
| 15 | M59 | X | -21.2 | %90 |
| 16 | M62 | X | -9.7 | %10 |
| 17 | M62 | X | -9.7 | %90 |
| 18 | M59 | X | -4.4 | %80 |
| 19 | M42 | X | -24.4 | %10 |
| 20 | M42 | X | -24.4 | %90 |
| 21 | M100 | X | -34.5 | %10 |
| 22 | M100 | X | -34.5 | %90 |
| 23 | M38 | X | -34.2 | %10 |
| 24 | M38 | X | -34.2 | %90 |
| 25 | M41 | X | -13.6 | %10 |
| 26 | M41 | X | -13.6 | %90 |
| 27 | M38 | X | -4.4 | %80 |
| 28 | M15 | Z | 39.1 | %10 |
| 29 | M15 | Z | 39.1 | %90 |
| 30 | M18 | Z | 37.3 | %10 |
| 31 | M18 | Z | 37.3 | %90 |
| 32 | M11 | Z | 36.7 | %10 |
| 33 | M11 | Z | 36.7 | %90 |
| 34 | M14 | Z | 16.9 | %10 |
| 35 | M14 | Z | 16.9 | %90 |
| 36 | M11 | Z | 7.7 | %80 |
| 37 | M63 | Z | 39.1 | %10 |
| 38 | M63 | Z | 39.1 | %90 |
| 39 | M103 | Z | 37.3 | %10 |
| 40 | M103 | Z | 37.3 | %90 |
| 41 | M59 | Z | 36.7 | %10 |
| 42 | M59 | Z | 36.7 | %90 |
| 43 | M62 | Z | 16.9 | %10 |
| 44 | M62 | Z | 16.9 | %90 |
| 45 | M59 | Z | 7.7 | %80 |
| 46 | M42 | Z | 42.2 | %10 |
| 47 | M42 | Z | 42.2 | %90 |
| 48 | M100 | Z | 59.8 | %10 |
| 49 | M100 | Z | 59.8 | %90 |
| 50 | M38 | Z | 59.2 | %10 |
| 51 | M38 | Z | 59.2 | %90 |
| 52 | M41 | Z | 23.5 | %10 |
| 53 | M41 | Z | 23.5 | %90 |
| 54 | M38 | Z | 7.7 | %80 |

Member Point Loads (BLC 13 : Wind + Ice (120 deg))

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[in, %] |
|---|--------------|-----------|---------------------|-----------------|
| 1 | M15 | X | 22.5 | %10 |
| 2 | M15 | X | 22.5 | %90 |
| 3 | M18 | X | 21.5 | %10 |
| 4 | M18 | X | 21.5 | %90 |
| 5 | M11 | X | 21.2 | %10 |
| 6 | M11 | X | 21.2 | %90 |
| 7 | M14 | X | 9.7 | %10 |



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Member Point Loads (BLC 13 : Wind + Ice (120 deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[in, %] |
|----|--------------|-----------|---------------------|-----------------|
| 8 | M14 | X | 9.7 | %90 |
| 9 | M11 | X | 4.4 | %80 |
| 10 | M63 | X | 22.5 | %10 |
| 11 | M63 | X | 22.5 | %90 |
| 12 | M103 | X | 21.5 | %10 |
| 13 | M103 | X | 21.5 | %90 |
| 14 | M59 | X | 21.2 | %10 |
| 15 | M59 | X | 21.2 | %90 |
| 16 | M62 | X | 9.7 | %10 |
| 17 | M62 | X | 9.7 | %90 |
| 18 | M59 | X | 4.4 | %80 |
| 19 | M42 | X | 24.4 | %10 |
| 20 | M42 | X | 24.4 | %90 |
| 21 | M100 | X | 34.5 | %10 |
| 22 | M100 | X | 34.5 | %90 |
| 23 | M38 | X | 34.2 | %10 |
| 24 | M38 | X | 34.2 | %90 |
| 25 | M41 | X | 13.6 | %10 |
| 26 | M41 | X | 13.6 | %90 |
| 27 | M38 | X | 4.4 | %80 |
| 28 | M15 | Z | 39.1 | %10 |
| 29 | M15 | Z | 39.1 | %90 |
| 30 | M18 | Z | 37.3 | %10 |
| 31 | M18 | Z | 37.3 | %90 |
| 32 | M11 | Z | 36.7 | %10 |
| 33 | M11 | Z | 36.7 | %90 |
| 34 | M14 | Z | 16.9 | %10 |
| 35 | M14 | Z | 16.9 | %90 |
| 36 | M11 | Z | 7.7 | %80 |
| 37 | M63 | Z | 39.1 | %10 |
| 38 | M63 | Z | 39.1 | %90 |
| 39 | M103 | Z | 37.3 | %10 |
| 40 | M103 | Z | 37.3 | %90 |
| 41 | M59 | Z | 36.7 | %10 |
| 42 | M59 | Z | 36.7 | %90 |
| 43 | M62 | Z | 16.9 | %10 |
| 44 | M62 | Z | 16.9 | %90 |
| 45 | M59 | Z | 7.7 | %80 |
| 46 | M42 | Z | 42.2 | %10 |
| 47 | M42 | Z | 42.2 | %90 |
| 48 | M100 | Z | 59.8 | %10 |
| 49 | M100 | Z | 59.8 | %90 |
| 50 | M38 | Z | 59.2 | %10 |
| 51 | M38 | Z | 59.2 | %90 |
| 52 | M41 | Z | 23.5 | %10 |
| 53 | M41 | Z | 23.5 | %90 |
| 54 | M38 | Z | 7.7 | %80 |

Member Point Loads (BLC 14 : Wind + Ice (150 deg))

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[in, %] |
|---|--------------|-----------|---------------------|-----------------|
| 1 | M15 | X | 41.1 | %10 |
| 2 | M15 | X | 41.1 | %90 |
| 3 | M18 | X | 52.3 | %10 |
| 4 | M18 | X | 52.3 | %90 |
| 5 | M11 | X | 51.7 | %10 |
| 6 | M11 | X | 51.7 | %90 |



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Member Point Loads (BLC 14 : Wind + Ice (150 deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[in, %] |
|----|--------------|-----------|---------------------|-----------------|
| 7 | M14 | X | 21.3 | %10 |
| 8 | M14 | X | 21.3 | %90 |
| 9 | M11 | X | 7.7 | %80 |
| 10 | M63 | X | 38 | %10 |
| 11 | M63 | X | 38 | %90 |
| 12 | M103 | X | 29.8 | %10 |
| 13 | M103 | X | 29.8 | %90 |
| 14 | M59 | X | 29.2 | %10 |
| 15 | M59 | X | 29.2 | %90 |
| 16 | M62 | X | 14.7 | %10 |
| 17 | M62 | X | 14.7 | %90 |
| 18 | M59 | X | 7.7 | %80 |
| 19 | M42 | X | 41.1 | %10 |
| 20 | M42 | X | 41.1 | %90 |
| 21 | M100 | X | 52.3 | %10 |
| 22 | M100 | X | 52.3 | %90 |
| 23 | M38 | X | 51.7 | %10 |
| 24 | M38 | X | 51.7 | %90 |
| 25 | M41 | X | 21.3 | %10 |
| 26 | M41 | X | 21.3 | %90 |
| 27 | M38 | X | 7.7 | %80 |
| 28 | M15 | Z | 23.8 | %10 |
| 29 | M15 | Z | 23.8 | %90 |
| 30 | M18 | Z | 30.2 | %10 |
| 31 | M18 | Z | 30.2 | %90 |
| 32 | M11 | Z | 29.9 | %10 |
| 33 | M11 | Z | 29.9 | %90 |
| 34 | M14 | Z | 12.3 | %10 |
| 35 | M14 | Z | 12.3 | %90 |
| 36 | M11 | Z | 4.4 | %80 |
| 37 | M63 | Z | 21.9 | %10 |
| 38 | M63 | Z | 21.9 | %90 |
| 39 | M103 | Z | 17.2 | %10 |
| 40 | M103 | Z | 17.2 | %90 |
| 41 | M59 | Z | 16.9 | %10 |
| 42 | M59 | Z | 16.9 | %90 |
| 43 | M62 | Z | 8.5 | %10 |
| 44 | M62 | Z | 8.5 | %90 |
| 45 | M59 | Z | 4.4 | %80 |
| 46 | M42 | Z | 23.8 | %10 |
| 47 | M42 | Z | 23.8 | %90 |
| 48 | M100 | Z | 30.2 | %10 |
| 49 | M100 | Z | 30.2 | %90 |
| 50 | M38 | Z | 29.9 | %10 |
| 51 | M38 | Z | 29.9 | %90 |
| 52 | M41 | Z | 12.3 | %10 |
| 53 | M41 | Z | 12.3 | %90 |
| 54 | M38 | Z | 4.4 | %80 |

Member Point Loads (BLC 15 : Live Lm1)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[in, %] |
|---|--------------|-----------|---------------------|-----------------|
| 1 | M15 | Y | -500 | 0 |

Member Point Loads (BLC 16 : Live Lm2)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[in, %] |
|---|--------------|-----------|---------------------|-----------------|
| 1 | M63 | Y | -500 | 0 |



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Member Point Loads (BLC 17 : Live Lm3)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[in, %] |
|---|--------------|-----------|---------------------|-----------------|
| 1 | M42 | Y | -500 | 0 |

Member Point Loads (BLC 18 : Wind + Live Lm (0 deg))

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[in, %] |
|----|--------------|-----------|---------------------|-----------------|
| 1 | M15 | X | -14.5 | %10 |
| 2 | M15 | X | -14.5 | %90 |
| 3 | M18 | X | -21.9 | %10 |
| 4 | M18 | X | -21.9 | %90 |
| 5 | M11 | X | -21.7 | %10 |
| 6 | M11 | X | -21.7 | %90 |
| 7 | M14 | X | -7.9 | %10 |
| 8 | M14 | X | -7.9 | %90 |
| 9 | M11 | X | -1.7 | %80 |
| 10 | M63 | X | -12.7 | %10 |
| 11 | M63 | X | -12.7 | %90 |
| 12 | M103 | X | -12.7 | %10 |
| 13 | M103 | X | -12.7 | %90 |
| 14 | M59 | X | -12.5 | %10 |
| 15 | M59 | X | -12.5 | %90 |
| 16 | M62 | X | -5.1 | %10 |
| 17 | M62 | X | -5.1 | %90 |
| 18 | M59 | X | -1.7 | %80 |
| 19 | M42 | X | -12.7 | %10 |
| 20 | M42 | X | -12.7 | %90 |
| 21 | M100 | X | -12.7 | %10 |
| 22 | M100 | X | -12.7 | %90 |
| 23 | M38 | X | -12.5 | %10 |
| 24 | M38 | X | -12.5 | %90 |
| 25 | M41 | X | -5.1 | %10 |
| 26 | M41 | X | -5.1 | %90 |
| 27 | M38 | X | -1.7 | %80 |

Member Point Loads (BLC 19 : Wind + Live Lm (90 deg))

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[in, %] |
|----|--------------|-----------|---------------------|-----------------|
| 1 | M15 | Z | 12.1 | %10 |
| 2 | M15 | Z | 12.1 | %90 |
| 3 | M18 | Z | 9.6 | %10 |
| 4 | M18 | Z | 9.6 | %90 |
| 5 | M11 | Z | 9.4 | %10 |
| 6 | M11 | Z | 9.4 | %90 |
| 7 | M14 | Z | 4.2 | %10 |
| 8 | M14 | Z | 4.2 | %90 |
| 9 | M11 | Z | 1.7 | %80 |
| 10 | M63 | Z | 13.9 | %10 |
| 11 | M63 | Z | 13.9 | %90 |
| 12 | M103 | Z | 18.9 | %10 |
| 13 | M103 | Z | 18.9 | %90 |
| 14 | M59 | Z | 18.6 | %10 |
| 15 | M59 | Z | 18.6 | %90 |
| 16 | M62 | Z | 7 | %10 |
| 17 | M62 | Z | 7 | %90 |
| 18 | M59 | Z | 1.7 | %80 |
| 19 | M42 | Z | 13.9 | %10 |
| 20 | M42 | Z | 13.9 | %90 |
| 21 | M100 | Z | 18.9 | %10 |
| 22 | M100 | Z | 18.9 | %90 |



Member Point Loads (BLC 19 : Wind + Live Lm (90 deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[in, %] |
|----|--------------|-----------|---------------------|-----------------|
| 23 | M38 | Z | 18.6 | %10 |
| 24 | M38 | Z | 18.6 | %90 |
| 25 | M41 | Z | 7 | %10 |
| 26 | M41 | Z | 7 | %90 |
| 27 | M38 | Z | 1.7 | %80 |

Member Point Loads (BLC 20 : Wind + Live Lm (30 deg))

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[in, %] |
|----|--------------|-----------|---------------------|-----------------|
| 1 | M15 | X | -12.1 | %10 |
| 2 | M15 | X | -12.1 | %90 |
| 3 | M18 | X | -16.3 | %10 |
| 4 | M18 | X | -16.3 | %90 |
| 5 | M11 | X | -16.1 | %10 |
| 6 | M11 | X | -16.1 | %90 |
| 7 | M14 | X | -6 | %10 |
| 8 | M14 | X | -6 | %90 |
| 9 | M11 | X | -1.5 | %80 |
| 10 | M63 | X | -10.4 | %10 |
| 11 | M63 | X | -10.4 | %90 |
| 12 | M103 | X | -8.3 | %10 |
| 13 | M103 | X | -8.3 | %90 |
| 14 | M59 | X | -8.1 | %10 |
| 15 | M59 | X | -8.1 | %90 |
| 16 | M62 | X | -3.6 | %10 |
| 17 | M62 | X | -3.6 | %90 |
| 18 | M59 | X | -1.5 | %80 |
| 19 | M42 | X | -12.1 | %10 |
| 20 | M42 | X | -12.1 | %90 |
| 21 | M100 | X | -16.3 | %10 |
| 22 | M100 | X | -16.3 | %90 |
| 23 | M38 | X | -16.1 | %10 |
| 24 | M38 | X | -16.1 | %90 |
| 25 | M41 | X | -6 | %10 |
| 26 | M41 | X | -6 | %90 |
| 27 | M38 | X | -1.5 | %80 |
| 28 | M15 | Z | 7 | %10 |
| 29 | M15 | Z | 7 | %90 |
| 30 | M18 | Z | 9.4 | %10 |
| 31 | M18 | Z | 9.4 | %90 |
| 32 | M11 | Z | 9.3 | %10 |
| 33 | M11 | Z | 9.3 | %90 |
| 34 | M14 | Z | 3.5 | %10 |
| 35 | M14 | Z | 3.5 | %90 |
| 36 | M11 | Z | .9 | %80 |
| 37 | M63 | Z | 6 | %10 |
| 38 | M63 | Z | 6 | %90 |
| 39 | M103 | Z | 4.8 | %10 |
| 40 | M103 | Z | 4.8 | %90 |
| 41 | M59 | Z | 4.7 | %10 |
| 42 | M59 | Z | 4.7 | %90 |
| 43 | M62 | Z | 2.1 | %10 |
| 44 | M62 | Z | 2.1 | %90 |
| 45 | M59 | Z | .9 | %80 |
| 46 | M42 | Z | 7 | %10 |
| 47 | M42 | Z | 7 | %90 |
| 48 | M100 | Z | 9.4 | %10 |



Member Point Loads (BLC 20 : Wind + Live Lm (30 deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[in, %] |
|----|--------------|-----------|---------------------|-----------------|
| 49 | M100 | Z | 9.4 | %90 |
| 50 | M38 | Z | 9.3 | %10 |
| 51 | M38 | Z | 9.3 | %90 |
| 52 | M41 | Z | 3.5 | %10 |
| 53 | M41 | Z | 3.5 | %90 |
| 54 | M38 | Z | 9 | %80 |

Member Point Loads (BLC 21 : Wind + Live Lm (60 deg))

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[in, %] |
|----|--------------|-----------|---------------------|-----------------|
| 1 | M15 | X | -6.3 | %10 |
| 2 | M15 | X | -6.3 | %90 |
| 3 | M18 | X | -6.3 | %10 |
| 4 | M18 | X | -6.3 | %90 |
| 5 | M11 | X | -6.2 | %10 |
| 6 | M11 | X | -6.2 | %90 |
| 7 | M14 | X | -2.6 | %10 |
| 8 | M14 | X | -2.6 | %90 |
| 9 | M11 | X | -9 | %80 |
| 10 | M63 | X | -6.3 | %10 |
| 11 | M63 | X | -6.3 | %90 |
| 12 | M103 | X | -6.3 | %10 |
| 13 | M103 | X | -6.3 | %90 |
| 14 | M59 | X | -6.2 | %10 |
| 15 | M59 | X | -6.2 | %90 |
| 16 | M62 | X | -2.6 | %10 |
| 17 | M62 | X | -2.6 | %90 |
| 18 | M59 | X | -9 | %80 |
| 19 | M42 | X | -7.3 | %10 |
| 20 | M42 | X | -7.3 | %90 |
| 21 | M100 | X | -11 | %10 |
| 22 | M100 | X | -11 | %90 |
| 23 | M38 | X | -10.9 | %10 |
| 24 | M38 | X | -10.9 | %90 |
| 25 | M41 | X | -3.9 | %10 |
| 26 | M41 | X | -3.9 | %90 |
| 27 | M38 | X | -9 | %80 |
| 28 | M15 | Z | 11 | %10 |
| 29 | M15 | Z | 11 | %90 |
| 30 | M18 | Z | 11 | %10 |
| 31 | M18 | Z | 11 | %90 |
| 32 | M11 | Z | 10.8 | %10 |
| 33 | M11 | Z | 10.8 | %90 |
| 34 | M14 | Z | 4.4 | %10 |
| 35 | M14 | Z | 4.4 | %90 |
| 36 | M11 | Z | 1.5 | %80 |
| 37 | M63 | Z | 11 | %10 |
| 38 | M63 | Z | 11 | %90 |
| 39 | M103 | Z | 11 | %10 |
| 40 | M103 | Z | 11 | %90 |
| 41 | M59 | Z | 10.8 | %10 |
| 42 | M59 | Z | 10.8 | %90 |
| 43 | M62 | Z | 4.4 | %10 |
| 44 | M62 | Z | 4.4 | %90 |
| 45 | M59 | Z | 1.5 | %80 |
| 46 | M42 | Z | 12.6 | %10 |
| 47 | M42 | Z | 12.6 | %90 |



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Member Point Loads (BLC 21 : Wind + Live Lm (60 deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[in, %] |
|----|--------------|-----------|---------------------|-----------------|
| 48 | M100 | Z | 19 | %10 |
| 49 | M100 | Z | 19 | %90 |
| 50 | M38 | Z | 18.8 | %10 |
| 51 | M38 | Z | 18.8 | %90 |
| 52 | M41 | Z | 6.8 | %10 |
| 53 | M41 | Z | 6.8 | %90 |
| 54 | M38 | Z | 1.5 | %80 |

Member Point Loads (BLC 22 : Wind + Live Lm (120 deg))

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[in, %] |
|----|--------------|-----------|---------------------|-----------------|
| 1 | M15 | X | 6.3 | %10 |
| 2 | M15 | X | 6.3 | %90 |
| 3 | M18 | X | 6.3 | %10 |
| 4 | M18 | X | 6.3 | %90 |
| 5 | M11 | X | 6.2 | %10 |
| 6 | M11 | X | 6.2 | %90 |
| 7 | M14 | X | 2.6 | %10 |
| 8 | M14 | X | 2.6 | %90 |
| 9 | M11 | X | .9 | %80 |
| 10 | M63 | X | 6.3 | %10 |
| 11 | M63 | X | 6.3 | %90 |
| 12 | M103 | X | 6.3 | %10 |
| 13 | M103 | X | 6.3 | %90 |
| 14 | M59 | X | 6.2 | %10 |
| 15 | M59 | X | 6.2 | %90 |
| 16 | M62 | X | 2.6 | %10 |
| 17 | M62 | X | 2.6 | %90 |
| 18 | M59 | X | .9 | %80 |
| 19 | M42 | X | 7.3 | %10 |
| 20 | M42 | X | 7.3 | %90 |
| 21 | M100 | X | 11 | %10 |
| 22 | M100 | X | 11 | %90 |
| 23 | M38 | X | 10.9 | %10 |
| 24 | M38 | X | 10.9 | %90 |
| 25 | M41 | X | 3.9 | %10 |
| 26 | M41 | X | 3.9 | %90 |
| 27 | M38 | X | .9 | %80 |
| 28 | M15 | Z | 11 | %10 |
| 29 | M15 | Z | 11 | %90 |
| 30 | M18 | Z | 11 | %10 |
| 31 | M18 | Z | 11 | %90 |
| 32 | M11 | Z | 10.8 | %10 |
| 33 | M11 | Z | 10.8 | %90 |
| 34 | M14 | Z | 4.4 | %10 |
| 35 | M14 | Z | 4.4 | %90 |
| 36 | M11 | Z | 1.5 | %80 |
| 37 | M63 | Z | 11 | %10 |
| 38 | M63 | Z | 11 | %90 |
| 39 | M103 | Z | 11 | %10 |
| 40 | M103 | Z | 11 | %90 |
| 41 | M59 | Z | 10.8 | %10 |
| 42 | M59 | Z | 10.8 | %90 |
| 43 | M62 | Z | 4.4 | %10 |
| 44 | M62 | Z | 4.4 | %90 |
| 45 | M59 | Z | 1.5 | %80 |
| 46 | M42 | Z | 12.6 | %10 |



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 Designer : DVA
 Job Number : 1009-Z0003-B
 Model Name : MRCTB046850

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Member Point Loads (BLC 22 : Wind + Live Lm (120 deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[in, %] |
|----|--------------|-----------|---------------------|-----------------|
| 47 | M42 | Z | 12.6 | %90 |
| 48 | M100 | Z | 19 | %10 |
| 49 | M100 | Z | 19 | %90 |
| 50 | M38 | Z | 18.8 | %10 |
| 51 | M38 | Z | 18.8 | %90 |
| 52 | M41 | Z | 6.8 | %10 |
| 53 | M41 | Z | 6.8 | %90 |
| 54 | M38 | Z | 1.5 | %80 |

Member Point Loads (BLC 23 : Wind + Live Lm (150 deg))

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[in, %] |
|----|--------------|-----------|---------------------|-----------------|
| 1 | M15 | X | 12.1 | %10 |
| 2 | M15 | X | 12.1 | %90 |
| 3 | M18 | X | 16.3 | %10 |
| 4 | M18 | X | 16.3 | %90 |
| 5 | M11 | X | 16.1 | %10 |
| 6 | M11 | X | 16.1 | %90 |
| 7 | M14 | X | 6 | %10 |
| 8 | M14 | X | 6 | %90 |
| 9 | M11 | X | 1.5 | %80 |
| 10 | M63 | X | 10.4 | %10 |
| 11 | M63 | X | 10.4 | %90 |
| 12 | M103 | X | 8.3 | %10 |
| 13 | M103 | X | 8.3 | %90 |
| 14 | M59 | X | 8.1 | %10 |
| 15 | M59 | X | 8.1 | %90 |
| 16 | M62 | X | 3.6 | %10 |
| 17 | M62 | X | 3.6 | %90 |
| 18 | M59 | X | 1.5 | %80 |
| 19 | M42 | X | 12.1 | %10 |
| 20 | M42 | X | 12.1 | %90 |
| 21 | M100 | X | 16.3 | %10 |
| 22 | M100 | X | 16.3 | %90 |
| 23 | M38 | X | 16.1 | %10 |
| 24 | M38 | X | 16.1 | %90 |
| 25 | M41 | X | 6 | %10 |
| 26 | M41 | X | 6 | %90 |
| 27 | M38 | X | 1.5 | %80 |
| 28 | M15 | Z | 7 | %10 |
| 29 | M15 | Z | 7 | %90 |
| 30 | M18 | Z | 9.4 | %10 |
| 31 | M18 | Z | 9.4 | %90 |
| 32 | M11 | Z | 9.3 | %10 |
| 33 | M11 | Z | 9.3 | %90 |
| 34 | M14 | Z | 3.5 | %10 |
| 35 | M14 | Z | 3.5 | %90 |
| 36 | M11 | Z | 9 | %80 |
| 37 | M63 | Z | 6 | %10 |
| 38 | M63 | Z | 6 | %90 |
| 39 | M103 | Z | 4.8 | %10 |
| 40 | M103 | Z | 4.8 | %90 |
| 41 | M59 | Z | 4.7 | %10 |
| 42 | M59 | Z | 4.7 | %90 |
| 43 | M62 | Z | 2.1 | %10 |
| 44 | M62 | Z | 2.1 | %90 |
| 45 | M59 | Z | 9 | %80 |

Member Point Loads (BLC 23 : Wind + Live Lm (150 deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[in, %] |
|----|--------------|-----------|---------------------|-----------------|
| 46 | M42 | Z | 7 | %10 |
| 47 | M42 | Z | 7 | %90 |
| 48 | M100 | Z | 9.4 | %10 |
| 49 | M100 | Z | 9.4 | %90 |
| 50 | M38 | Z | 9.3 | %10 |
| 51 | M38 | Z | 9.3 | %90 |
| 52 | M41 | Z | 3.5 | %10 |
| 53 | M41 | Z | 3.5 | %90 |
| 54 | M38 | Z | .9 | %80 |

Member Point Loads (BLC 24 : Live Lv1)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[in, %] |
|---|--------------|-----------|---------------------|-----------------|
| 1 | M1 | Y | -250 | 0 |
| 2 | M28 | Y | -250 | 0 |
| 3 | M49 | Y | -250 | 0 |

Member Point Loads (BLC 25 : Live Lv2)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[in, %] |
|---|--------------|-----------|---------------------|-----------------|
| 1 | M1 | Y | -250 | %50 |
| 2 | M28 | Y | -250 | %50 |
| 3 | M49 | Y | -250 | %50 |

Member Point Loads (BLC 26 : Live Lv3)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[in, %] |
|---|--------------|-----------|---------------------|-----------------|
| 1 | M1 | Y | -250 | %100 |
| 2 | M28 | Y | -250 | %100 |
| 3 | M49 | Y | -250 | %100 |

Member Point Loads (BLC 27 : Seismic Antenna (0 deg))

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[in, %] |
|----|--------------|-----------|---------------------|-----------------|
| 1 | M15 | X | -7.6 | %10 |
| 2 | M15 | X | -7.6 | %90 |
| 3 | M18 | X | -6.8 | %10 |
| 4 | M18 | X | -6.8 | %90 |
| 5 | M11 | X | -7 | %10 |
| 6 | M11 | X | -7 | %90 |
| 7 | M14 | X | -5.6 | %10 |
| 8 | M14 | X | -5.6 | %90 |
| 9 | M11 | X | -2 | %80 |
| 10 | M63 | X | -7.6 | %10 |
| 11 | M63 | X | -7.6 | %90 |
| 12 | M103 | X | -6.8 | %10 |
| 13 | M103 | X | -6.8 | %90 |
| 14 | M59 | X | -7 | %10 |
| 15 | M59 | X | -7 | %90 |
| 16 | M62 | X | -5.6 | %10 |
| 17 | M62 | X | -5.6 | %90 |
| 18 | M59 | X | -2 | %80 |
| 19 | M42 | X | -7.6 | %10 |
| 20 | M42 | X | -7.6 | %90 |
| 21 | M100 | X | -6.8 | %10 |
| 22 | M100 | X | -6.8 | %90 |
| 23 | M38 | X | -7 | %10 |
| 24 | M38 | X | -7 | %90 |
| 25 | M41 | X | -5.6 | %10 |



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 Designer : DVA
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Member Point Loads (BLC 27 : Seismic Antenna (0 deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[in, %] |
|----|--------------|-----------|---------------------|-----------------|
| 26 | M41 | X | -5.6 | %90 |
| 27 | M38 | X | -2 | %80 |

Member Point Loads (BLC 28 : Seismic Antenna (90 deg))

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[in, %] |
|----|--------------|-----------|---------------------|-----------------|
| 1 | M15 | Z | 7.6 | %10 |
| 2 | M15 | Z | 7.6 | %90 |
| 3 | M18 | Z | 6.8 | %10 |
| 4 | M18 | Z | 6.8 | %90 |
| 5 | M11 | Z | 7 | %10 |
| 6 | M11 | Z | 7 | %90 |
| 7 | M14 | Z | 5.6 | %10 |
| 8 | M14 | Z | 5.6 | %90 |
| 9 | M11 | Z | 2 | %80 |
| 10 | M63 | Z | 7.6 | %10 |
| 11 | M63 | Z | 7.6 | %90 |
| 12 | M103 | Z | 6.8 | %10 |
| 13 | M103 | Z | 6.8 | %90 |
| 14 | M59 | Z | 7 | %10 |
| 15 | M59 | Z | 7 | %90 |
| 16 | M62 | Z | 5.6 | %10 |
| 17 | M62 | Z | 5.6 | %90 |
| 18 | M59 | Z | 2 | %80 |
| 19 | M42 | Z | 7.6 | %10 |
| 20 | M42 | Z | 7.6 | %90 |
| 21 | M100 | Z | 6.8 | %10 |
| 22 | M100 | Z | 6.8 | %90 |
| 23 | M38 | Z | 7 | %10 |
| 24 | M38 | Z | 7 | %90 |
| 25 | M41 | Z | 5.6 | %10 |
| 26 | M41 | Z | 5.6 | %90 |
| 27 | M38 | Z | 2 | %80 |

Member Point Loads (BLC 35 : Seismic Vertical)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[in, %] |
|----|--------------|-----------|---------------------|-----------------|
| 1 | M15 | Y | -15.3 | %10 |
| 2 | M15 | Y | -15.3 | %90 |
| 3 | M18 | Y | -13.6 | %10 |
| 4 | M18 | Y | -13.6 | %90 |
| 5 | M11 | Y | -14.2 | %10 |
| 6 | M11 | Y | -14.2 | %90 |
| 7 | M14 | Y | -11.3 | %10 |
| 8 | M14 | Y | -11.3 | %90 |
| 9 | M11 | Y | -4 | %80 |
| 10 | M63 | Y | -15.3 | %10 |
| 11 | M63 | Y | -15.3 | %90 |
| 12 | M103 | Y | -13.6 | %10 |
| 13 | M103 | Y | -13.6 | %90 |
| 14 | M59 | Y | -14.2 | %10 |
| 15 | M59 | Y | -14.2 | %90 |
| 16 | M62 | Y | -11.3 | %10 |
| 17 | M62 | Y | -11.3 | %90 |
| 18 | M59 | Y | -4 | %80 |
| 19 | M42 | Y | -15.3 | %10 |
| 20 | M42 | Y | -15.3 | %90 |
| 21 | M100 | Y | -13.6 | %10 |



Member Point Loads (BLC 35 : Seismic Vertical) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[in, %] |
|----|--------------|-----------|---------------------|-----------------|
| 22 | M100 | Y | -13.6 | %90 |
| 23 | M38 | Y | -14.2 | %10 |
| 24 | M38 | Y | -14.2 | %90 |
| 25 | M41 | Y | -11.3 | %10 |
| 26 | M41 | Y | -11.3 | %90 |
| 27 | M38 | Y | -4 | %80 |

Joint Loads and Enforced Displacements

| Joint Label | I, D, M | Direction | Magnitude[(lb,lb-ft), (in,rad), (lb*s^2/in, lb*s |
|----------------------|---------|-----------|--------------------------------------------------|
| No Data to Print ... | | | |

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

| | Member Label | Direction | Start Magnitude[lb/ft,F,... | End Magnitude[lb/ft,F,psf] | Start Location[in, %] | End Location[in, %] |
|----|--------------|-----------|-----------------------------|----------------------------|-----------------------|---------------------|
| 1 | M1 | X | -6.5 | -6.5 | 0 | 0 |
| 2 | M2 | X | -9.7 | -9.7 | 0 | 0 |
| 3 | M3 | X | -9.7 | -9.7 | 0 | 0 |
| 4 | M4 | X | -6.5 | -6.5 | 0 | 0 |
| 5 | M5 | X | -6.5 | -6.5 | 0 | 0 |
| 6 | M6 | X | -6.5 | -6.5 | 0 | 0 |
| 7 | M19 | X | -6.5 | -6.5 | 0 | 0 |
| 8 | M20 | X | -6.5 | -6.5 | 0 | 0 |
| 9 | M21 | X | -6.5 | -6.5 | 0 | 0 |
| 10 | M22 | X | -6.5 | -6.5 | 0 | 0 |
| 11 | M23 | X | -6.5 | -6.5 | 0 | 0 |
| 12 | M24 | X | -6.5 | -6.5 | 0 | 0 |
| 13 | M25 | X | -6.5 | -6.5 | 0 | 0 |
| 14 | M26 | X | -6.5 | -6.5 | 0 | 0 |
| 15 | M27 | X | -6.5 | -6.5 | 0 | 0 |
| 16 | M28 | X | -6.5 | -6.5 | 0 | 0 |
| 17 | M29 | X | -9.7 | -9.7 | 0 | 0 |
| 18 | M30 | X | -9.7 | -9.7 | 0 | 0 |
| 19 | M31 | X | -6.5 | -6.5 | 0 | 0 |
| 20 | M32 | X | -6.5 | -6.5 | 0 | 0 |
| 21 | M33 | X | -6.5 | -6.5 | 0 | 0 |
| 22 | M43 | X | -6.5 | -6.5 | 0 | 0 |
| 23 | M44 | X | -6.5 | -6.5 | 0 | 0 |
| 24 | M45 | X | -6.5 | -6.5 | 0 | 0 |
| 25 | M46 | X | -6.5 | -6.5 | 0 | 0 |
| 26 | M47 | X | -6.5 | -6.5 | 0 | 0 |
| 27 | M48 | X | -6.5 | -6.5 | 0 | 0 |
| 28 | M49 | X | -6.5 | -6.5 | 0 | 0 |
| 29 | M50 | X | -9.7 | -9.7 | 0 | 0 |
| 30 | M51 | X | -9.7 | -9.7 | 0 | 0 |
| 31 | M52 | X | -6.5 | -6.5 | 0 | 0 |
| 32 | M53 | X | -6.5 | -6.5 | 0 | 0 |
| 33 | M54 | X | -6.5 | -6.5 | 0 | 0 |
| 34 | M64 | X | -6.5 | -6.5 | 0 | 0 |
| 35 | M65 | X | -6.5 | -6.5 | 0 | 0 |
| 36 | M66 | X | -6.5 | -6.5 | 0 | 0 |
| 37 | M67 | X | -6.5 | -6.5 | 0 | 0 |
| 38 | M68 | X | -6.5 | -6.5 | 0 | 0 |
| 39 | M69 | X | -6.5 | -6.5 | 0 | 0 |
| 40 | M70 | X | -6.5 | -6.5 | 0 | 0 |
| 41 | M71 | X | -6.5 | -6.5 | 0 | 0 |



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

| Member Label | Direction | Start Magnitude[lb/ft.F] | End Magnitude[lb/ft.F.psf] | Start Location[in. %] | End Location[in. %] | |
|--------------|-----------|--------------------------|----------------------------|-----------------------|---------------------|---|
| 42 | M72 | X | -6.5 | -6.5 | 0 | 0 |
| 43 | M73 | X | -6.5 | -6.5 | 0 | 0 |
| 44 | M74 | X | -6.5 | -6.5 | 0 | 0 |
| 45 | M75 | X | -6.5 | -6.5 | 0 | 0 |
| 46 | M76 | X | -6.5 | -6.5 | 0 | 0 |
| 47 | M91 | X | -25.9 | -25.9 | 0 | 0 |
| 48 | M92 | X | -19.5 | -19.5 | 0 | 0 |
| 49 | M93 | X | -19.5 | -19.5 | 0 | 0 |
| 50 | M94 | X | -25.9 | -25.9 | 0 | 0 |
| 51 | M95 | X | -19.5 | -19.5 | 0 | 0 |
| 52 | M96 | X | -19.5 | -19.5 | 0 | 0 |
| 53 | M97 | X | -25.9 | -25.9 | 0 | 0 |

Member Distributed Loads (BLC 3 : Wind (90 deg))

| Member Label | Direction | Start Magnitude[lb/ft.F] | End Magnitude[lb/ft.F.psf] | Start Location[in. %] | End Location[in. %] | |
|--------------|-----------|--------------------------|----------------------------|-----------------------|---------------------|---|
| 1 | M11 | Z | 9.2 | 9.2 | 0 | 0 |
| 2 | M14 | Z | 9.2 | 9.2 | 0 | 0 |
| 3 | M15 | Z | 9.2 | 9.2 | 0 | 0 |
| 4 | M18 | Z | 9.2 | 9.2 | 0 | 0 |
| 5 | M19 | Z | 6.5 | 6.5 | 0 | 0 |
| 6 | M20 | Z | 6.5 | 6.5 | 0 | 0 |
| 7 | M24 | Z | 6.5 | 6.5 | 0 | 0 |
| 8 | M25 | Z | 6.5 | 6.5 | 0 | 0 |
| 9 | M26 | Z | 6.5 | 6.5 | 0 | 0 |
| 10 | M27 | Z | 6.5 | 6.5 | 0 | 0 |
| 11 | M28 | Z | 6.5 | 6.5 | 0 | 0 |
| 12 | M29 | Z | 9.7 | 9.7 | 0 | 0 |
| 13 | M30 | Z | 9.7 | 9.7 | 0 | 0 |
| 14 | M31 | Z | 6.5 | 6.5 | 0 | 0 |
| 15 | M32 | Z | 6.5 | 6.5 | 0 | 0 |
| 16 | M33 | Z | 6.5 | 6.5 | 0 | 0 |
| 17 | M38 | Z | 9.2 | 9.2 | 0 | 0 |
| 18 | M41 | Z | 9.2 | 9.2 | 0 | 0 |
| 19 | M42 | Z | 9.2 | 9.2 | 0 | 0 |
| 20 | M43 | Z | 6.5 | 6.5 | 0 | 0 |
| 21 | M44 | Z | 6.5 | 6.5 | 0 | 0 |
| 22 | M45 | Z | 6.5 | 6.5 | 0 | 0 |
| 23 | M46 | Z | 6.5 | 6.5 | 0 | 0 |
| 24 | M47 | Z | 6.5 | 6.5 | 0 | 0 |
| 25 | M48 | Z | 6.5 | 6.5 | 0 | 0 |
| 26 | M49 | Z | 6.5 | 6.5 | 0 | 0 |
| 27 | M50 | Z | 9.7 | 9.7 | 0 | 0 |
| 28 | M51 | Z | 9.7 | 9.7 | 0 | 0 |
| 29 | M52 | Z | 6.5 | 6.5 | 0 | 0 |
| 30 | M53 | Z | 6.5 | 6.5 | 0 | 0 |
| 31 | M54 | Z | 6.5 | 6.5 | 0 | 0 |
| 32 | M59 | Z | 9.2 | 9.2 | 0 | 0 |
| 33 | M62 | Z | 9.2 | 9.2 | 0 | 0 |
| 34 | M63 | Z | 9.2 | 9.2 | 0 | 0 |
| 35 | M64 | Z | 6.5 | 6.5 | 0 | 0 |
| 36 | M65 | Z | 6.5 | 6.5 | 0 | 0 |
| 37 | M66 | Z | 6.5 | 6.5 | 0 | 0 |
| 38 | M67 | Z | 6.5 | 6.5 | 0 | 0 |
| 39 | M68 | Z | 6.5 | 6.5 | 0 | 0 |
| 40 | M69 | Z | 6.5 | 6.5 | 0 | 0 |
| 41 | M70 | Z | 6.5 | 6.5 | 0 | 0 |



Member Distributed Loads (BLC 3 : Wind (90 deg)) (Continued)

| Member Label | Direction | Start Magnitude[lb/ft.F] | End Magnitude[lb/ft.F.psf] | Start Location[in.%] | End Location[in.%] | |
|--------------|-----------|--------------------------|----------------------------|----------------------|--------------------|---|
| 42 | M72 | Z | 6.5 | 6.5 | 0 | 0 |
| 43 | M73 | Z | 6.5 | 6.5 | 0 | 0 |
| 44 | M74 | Z | 6.5 | 6.5 | 0 | 0 |
| 45 | M75 | Z | 6.5 | 6.5 | 0 | 0 |
| 46 | M76 | Z | 6.5 | 6.5 | 0 | 0 |
| 47 | M89 | Z | 19.5 | 19.5 | 0 | 0 |
| 48 | M90 | Z | 19.5 | 19.5 | 0 | 0 |
| 49 | M91 | Z | 25.9 | 25.9 | 0 | 0 |
| 50 | M92 | Z | 19.5 | 19.5 | 0 | 0 |
| 51 | M93 | Z | 19.5 | 19.5 | 0 | 0 |
| 52 | M94 | Z | 25.9 | 25.9 | 0 | 0 |
| 53 | M95 | Z | 19.5 | 19.5 | 0 | 0 |
| 54 | M96 | Z | 19.5 | 19.5 | 0 | 0 |
| 55 | M97 | Z | 25.9 | 25.9 | 0 | 0 |
| 56 | M100 | Z | 9.2 | 9.2 | 0 | 0 |
| 57 | M103 | Z | 9.2 | 9.2 | 0 | 0 |

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

| Member Label | Direction | Start Magnitude[lb/ft.F] | End Magnitude[lb/ft.F.psf] | Start Location[in.%] | End Location[in.%] | |
|--------------|-----------|--------------------------|----------------------------|----------------------|--------------------|---|
| 1 | M1 | X | -5.6 | -5.6 | 0 | 0 |
| 2 | M2 | X | -8.4 | -8.4 | 0 | 0 |
| 3 | M3 | X | -8.4 | -8.4 | 0 | 0 |
| 4 | M4 | X | -5.6 | -5.6 | 0 | 0 |
| 5 | M5 | X | -5.6 | -5.6 | 0 | 0 |
| 6 | M6 | X | -5.6 | -5.6 | 0 | 0 |
| 7 | M19 | X | -5.6 | -5.6 | 0 | 0 |
| 8 | M20 | X | -5.6 | -5.6 | 0 | 0 |
| 9 | M21 | X | -5.6 | -5.6 | 0 | 0 |
| 10 | M22 | X | -5.6 | -5.6 | 0 | 0 |
| 11 | M23 | X | -5.6 | -5.6 | 0 | 0 |
| 12 | M24 | X | -5.6 | -5.6 | 0 | 0 |
| 13 | M25 | X | -5.6 | -5.6 | 0 | 0 |
| 14 | M26 | X | -5.6 | -5.6 | 0 | 0 |
| 15 | M27 | X | -5.6 | -5.6 | 0 | 0 |
| 16 | M28 | X | -5.6 | -5.6 | 0 | 0 |
| 17 | M29 | X | -8.4 | -8.4 | 0 | 0 |
| 18 | M30 | X | -8.4 | -8.4 | 0 | 0 |
| 19 | M31 | X | -5.6 | -5.6 | 0 | 0 |
| 20 | M32 | X | -5.6 | -5.6 | 0 | 0 |
| 21 | M33 | X | -5.6 | -5.6 | 0 | 0 |
| 22 | M43 | X | -5.6 | -5.6 | 0 | 0 |
| 23 | M44 | X | -5.6 | -5.6 | 0 | 0 |
| 24 | M45 | X | -5.6 | -5.6 | 0 | 0 |
| 25 | M46 | X | -5.6 | -5.6 | 0 | 0 |
| 26 | M47 | X | -5.6 | -5.6 | 0 | 0 |
| 27 | M48 | X | -5.6 | -5.6 | 0 | 0 |
| 28 | M49 | X | -5.6 | -5.6 | 0 | 0 |
| 29 | M50 | X | -8.4 | -8.4 | 0 | 0 |
| 30 | M51 | X | -8.4 | -8.4 | 0 | 0 |
| 31 | M52 | X | -5.6 | -5.6 | 0 | 0 |
| 32 | M53 | X | -5.6 | -5.6 | 0 | 0 |
| 33 | M54 | X | -5.6 | -5.6 | 0 | 0 |
| 34 | M64 | X | -5.6 | -5.6 | 0 | 0 |
| 35 | M65 | X | -5.6 | -5.6 | 0 | 0 |
| 36 | M66 | X | -5.6 | -5.6 | 0 | 0 |
| 37 | M67 | X | -5.6 | -5.6 | 0 | 0 |



Company : Infinigy Engineering, LLC
 Designer : DVA
 Job Number : 1009-Z0003-B
 Model Name : MRCTB046850

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

| Member Label | Direction | Start Magnitude(lb/ft F) | End Magnitude(lb/ft F psf) | Start Location(in %) | End Location(in %) | |
|--------------|-----------|--------------------------|----------------------------|----------------------|--------------------|---|
| 38 | M68 | X | -5.6 | -5.6 | 0 | 0 |
| 39 | M69 | X | -5.6 | -5.6 | 0 | 0 |
| 40 | M70 | X | -5.6 | -5.6 | 0 | 0 |
| 41 | M71 | X | -5.6 | -5.6 | 0 | 0 |
| 42 | M72 | X | -5.6 | -5.6 | 0 | 0 |
| 43 | M73 | X | -5.6 | -5.6 | 0 | 0 |
| 44 | M74 | X | -5.6 | -5.6 | 0 | 0 |
| 45 | M75 | X | -5.6 | -5.6 | 0 | 0 |
| 46 | M76 | X | -5.6 | -5.6 | 0 | 0 |
| 47 | M89 | X | -16.9 | -16.9 | 0 | 0 |
| 48 | M90 | X | -16.9 | -16.9 | 0 | 0 |
| 49 | M91 | X | -22.4 | -22.4 | 0 | 0 |
| 50 | M92 | X | -16.9 | -16.9 | 0 | 0 |
| 51 | M93 | X | -16.9 | -16.9 | 0 | 0 |
| 52 | M94 | X | -22.4 | -22.4 | 0 | 0 |
| 53 | M95 | X | -16.9 | -16.9 | 0 | 0 |
| 54 | M96 | X | -16.9 | -16.9 | 0 | 0 |
| 55 | M97 | X | -22.4 | -22.4 | 0 | 0 |
| 56 | M1 | Z | 3.3 | 3.3 | 0 | 0 |
| 57 | M2 | Z | 4.9 | 4.9 | 0 | 0 |
| 58 | M3 | Z | 4.9 | 4.9 | 0 | 0 |
| 59 | M4 | Z | 3.3 | 3.3 | 0 | 0 |
| 60 | M5 | Z | 3.3 | 3.3 | 0 | 0 |
| 61 | M6 | Z | 3.3 | 3.3 | 0 | 0 |
| 62 | M19 | Z | 3.3 | 3.3 | 0 | 0 |
| 63 | M20 | Z | 3.3 | 3.3 | 0 | 0 |
| 64 | M21 | Z | 3.3 | 3.3 | 0 | 0 |
| 65 | M22 | Z | 3.3 | 3.3 | 0 | 0 |
| 66 | M23 | Z | 3.3 | 3.3 | 0 | 0 |
| 67 | M24 | Z | 3.3 | 3.3 | 0 | 0 |
| 68 | M25 | Z | 3.3 | 3.3 | 0 | 0 |
| 69 | M26 | Z | 3.3 | 3.3 | 0 | 0 |
| 70 | M27 | Z | 3.3 | 3.3 | 0 | 0 |
| 71 | M28 | Z | 3.3 | 3.3 | 0 | 0 |
| 72 | M29 | Z | 4.9 | 4.9 | 0 | 0 |
| 73 | M30 | Z | 4.9 | 4.9 | 0 | 0 |
| 74 | M31 | Z | 3.3 | 3.3 | 0 | 0 |
| 75 | M32 | Z | 3.3 | 3.3 | 0 | 0 |
| 76 | M33 | Z | 3.3 | 3.3 | 0 | 0 |
| 77 | M43 | Z | 3.3 | 3.3 | 0 | 0 |
| 78 | M44 | Z | 3.3 | 3.3 | 0 | 0 |
| 79 | M45 | Z | 3.3 | 3.3 | 0 | 0 |
| 80 | M46 | Z | 3.3 | 3.3 | 0 | 0 |
| 81 | M47 | Z | 3.3 | 3.3 | 0 | 0 |
| 82 | M48 | Z | 3.3 | 3.3 | 0 | 0 |
| 83 | M49 | Z | 3.3 | 3.3 | 0 | 0 |
| 84 | M50 | Z | 4.9 | 4.9 | 0 | 0 |
| 85 | M51 | Z | 4.9 | 4.9 | 0 | 0 |
| 86 | M52 | Z | 3.3 | 3.3 | 0 | 0 |
| 87 | M53 | Z | 3.3 | 3.3 | 0 | 0 |
| 88 | M54 | Z | 3.3 | 3.3 | 0 | 0 |
| 89 | M64 | Z | 3.3 | 3.3 | 0 | 0 |
| 90 | M65 | Z | 3.3 | 3.3 | 0 | 0 |
| 91 | M66 | Z | 3.3 | 3.3 | 0 | 0 |
| 92 | M67 | Z | 3.3 | 3.3 | 0 | 0 |
| 93 | M68 | Z | 3.3 | 3.3 | 0 | 0 |
| 94 | M69 | Z | 3.3 | 3.3 | 0 | 0 |



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

| Member Label | Direction | Start Magnitude[lb/ft.F] | End Magnitude[lb/ft.F.psf] | Start Location[in.%] | End Location[in.%] | |
|--------------|-----------|--------------------------|----------------------------|----------------------|--------------------|---|
| 95 | M70 | Z | 3.3 | 3.3 | 0 | 0 |
| 96 | M71 | Z | 3.3 | 3.3 | 0 | 0 |
| 97 | M72 | Z | 3.3 | 3.3 | 0 | 0 |
| 98 | M73 | Z | 3.3 | 3.3 | 0 | 0 |
| 99 | M74 | Z | 3.3 | 3.3 | 0 | 0 |
| 100 | M75 | Z | 3.3 | 3.3 | 0 | 0 |
| 101 | M76 | Z | 3.3 | 3.3 | 0 | 0 |
| 102 | M89 | Z | 9.8 | 9.8 | 0 | 0 |
| 103 | M90 | Z | 9.8 | 9.8 | 0 | 0 |
| 104 | M91 | Z | 13 | 13 | 0 | 0 |
| 105 | M92 | Z | 9.8 | 9.8 | 0 | 0 |
| 106 | M93 | Z | 9.8 | 9.8 | 0 | 0 |
| 107 | M94 | Z | 13 | 13 | 0 | 0 |
| 108 | M95 | Z | 9.8 | 9.8 | 0 | 0 |
| 109 | M96 | Z | 9.8 | 9.8 | 0 | 0 |
| 110 | M97 | Z | 13 | 13 | 0 | 0 |

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

| Member Label | Direction | Start Magnitude[lb/ft.F] | End Magnitude[lb/ft.F.psf] | Start Location[in.%] | End Location[in.%] | |
|--------------|-----------|--------------------------|----------------------------|----------------------|--------------------|---|
| 1 | M1 | X | -3.3 | -3.3 | 0 | 0 |
| 2 | M2 | X | -4.9 | -4.9 | 0 | 0 |
| 3 | M3 | X | -4.9 | -4.9 | 0 | 0 |
| 4 | M4 | X | -3.3 | -3.3 | 0 | 0 |
| 5 | M5 | X | -3.3 | -3.3 | 0 | 0 |
| 6 | M6 | X | -3.3 | -3.3 | 0 | 0 |
| 7 | M19 | X | -3.3 | -3.3 | 0 | 0 |
| 8 | M20 | X | -3.3 | -3.3 | 0 | 0 |
| 9 | M21 | X | -3.3 | -3.3 | 0 | 0 |
| 10 | M22 | X | -3.3 | -3.3 | 0 | 0 |
| 11 | M23 | X | -3.3 | -3.3 | 0 | 0 |
| 12 | M24 | X | -3.3 | -3.3 | 0 | 0 |
| 13 | M25 | X | -3.3 | -3.3 | 0 | 0 |
| 14 | M26 | X | -3.3 | -3.3 | 0 | 0 |
| 15 | M27 | X | -3.3 | -3.3 | 0 | 0 |
| 16 | M28 | X | -3.3 | -3.3 | 0 | 0 |
| 17 | M29 | X | -4.9 | -4.9 | 0 | 0 |
| 18 | M30 | X | -4.9 | -4.9 | 0 | 0 |
| 19 | M31 | X | -3.3 | -3.3 | 0 | 0 |
| 20 | M32 | X | -3.3 | -3.3 | 0 | 0 |
| 21 | M33 | X | -3.3 | -3.3 | 0 | 0 |
| 22 | M43 | X | -3.3 | -3.3 | 0 | 0 |
| 23 | M44 | X | -3.3 | -3.3 | 0 | 0 |
| 24 | M45 | X | -3.3 | -3.3 | 0 | 0 |
| 25 | M46 | X | -3.3 | -3.3 | 0 | 0 |
| 26 | M47 | X | -3.3 | -3.3 | 0 | 0 |
| 27 | M48 | X | -3.3 | -3.3 | 0 | 0 |
| 28 | M49 | X | -3.3 | -3.3 | 0 | 0 |
| 29 | M50 | X | -4.9 | -4.9 | 0 | 0 |
| 30 | M51 | X | -4.9 | -4.9 | 0 | 0 |
| 31 | M52 | X | -3.3 | -3.3 | 0 | 0 |
| 32 | M53 | X | -3.3 | -3.3 | 0 | 0 |
| 33 | M54 | X | -3.3 | -3.3 | 0 | 0 |
| 34 | M64 | X | -3.3 | -3.3 | 0 | 0 |
| 35 | M65 | X | -3.3 | -3.3 | 0 | 0 |
| 36 | M66 | X | -3.3 | -3.3 | 0 | 0 |
| 37 | M67 | X | -3.3 | -3.3 | 0 | 0 |



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

| Member Label | Direction | Start Magnitude(lb/ft F) | End Magnitude(lb/ft F psf) | Start Location(in %) | End Location(in %) | |
|--------------|-----------|--------------------------|----------------------------|----------------------|--------------------|---|
| 38 | M68 | X | -3.3 | -3.3 | 0 | 0 |
| 39 | M69 | X | -3.3 | -3.3 | 0 | 0 |
| 40 | M70 | X | -3.3 | -3.3 | 0 | 0 |
| 41 | M71 | X | -3.3 | -3.3 | 0 | 0 |
| 42 | M72 | X | -3.3 | -3.3 | 0 | 0 |
| 43 | M73 | X | -3.3 | -3.3 | 0 | 0 |
| 44 | M74 | X | -3.3 | -3.3 | 0 | 0 |
| 45 | M75 | X | -3.3 | -3.3 | 0 | 0 |
| 46 | M76 | X | -3.3 | -3.3 | 0 | 0 |
| 47 | M89 | X | -9.8 | -9.8 | 0 | 0 |
| 48 | M90 | X | -9.8 | -9.8 | 0 | 0 |
| 49 | M91 | X | -13 | -13 | 0 | 0 |
| 50 | M92 | X | -9.8 | -9.8 | 0 | 0 |
| 51 | M93 | X | -9.8 | -9.8 | 0 | 0 |
| 52 | M94 | X | -13 | -13 | 0 | 0 |
| 53 | M95 | X | -9.8 | -9.8 | 0 | 0 |
| 54 | M96 | X | -9.8 | -9.8 | 0 | 0 |
| 55 | M97 | X | -13 | -13 | 0 | 0 |
| 56 | M1 | Z | 5.6 | 5.6 | 0 | 0 |
| 57 | M2 | Z | 8.4 | 8.4 | 0 | 0 |
| 58 | M3 | Z | 8.4 | 8.4 | 0 | 0 |
| 59 | M4 | Z | 5.6 | 5.6 | 0 | 0 |
| 60 | M5 | Z | 5.6 | 5.6 | 0 | 0 |
| 61 | M6 | Z | 5.6 | 5.6 | 0 | 0 |
| 62 | M19 | Z | 5.6 | 5.6 | 0 | 0 |
| 63 | M20 | Z | 5.6 | 5.6 | 0 | 0 |
| 64 | M21 | Z | 5.6 | 5.6 | 0 | 0 |
| 65 | M22 | Z | 5.6 | 5.6 | 0 | 0 |
| 66 | M23 | Z | 5.6 | 5.6 | 0 | 0 |
| 67 | M24 | Z | 5.6 | 5.6 | 0 | 0 |
| 68 | M25 | Z | 5.6 | 5.6 | 0 | 0 |
| 69 | M26 | Z | 5.6 | 5.6 | 0 | 0 |
| 70 | M27 | Z | 5.6 | 5.6 | 0 | 0 |
| 71 | M28 | Z | 5.6 | 5.6 | 0 | 0 |
| 72 | M29 | Z | 8.4 | 8.4 | 0 | 0 |
| 73 | M30 | Z | 8.4 | 8.4 | 0 | 0 |
| 74 | M31 | Z | 5.6 | 5.6 | 0 | 0 |
| 75 | M32 | Z | 5.6 | 5.6 | 0 | 0 |
| 76 | M33 | Z | 5.6 | 5.6 | 0 | 0 |
| 77 | M43 | Z | 5.6 | 5.6 | 0 | 0 |
| 78 | M44 | Z | 5.6 | 5.6 | 0 | 0 |
| 79 | M45 | Z | 5.6 | 5.6 | 0 | 0 |
| 80 | M46 | Z | 5.6 | 5.6 | 0 | 0 |
| 81 | M47 | Z | 5.6 | 5.6 | 0 | 0 |
| 82 | M48 | Z | 5.6 | 5.6 | 0 | 0 |
| 83 | M49 | Z | 5.6 | 5.6 | 0 | 0 |
| 84 | M50 | Z | 8.4 | 8.4 | 0 | 0 |
| 85 | M51 | Z | 8.4 | 8.4 | 0 | 0 |
| 86 | M52 | Z | 5.6 | 5.6 | 0 | 0 |
| 87 | M53 | Z | 5.6 | 5.6 | 0 | 0 |
| 88 | M54 | Z | 5.6 | 5.6 | 0 | 0 |
| 89 | M64 | Z | 5.6 | 5.6 | 0 | 0 |
| 90 | M65 | Z | 5.6 | 5.6 | 0 | 0 |
| 91 | M66 | Z | 5.6 | 5.6 | 0 | 0 |
| 92 | M67 | Z | 5.6 | 5.6 | 0 | 0 |
| 93 | M68 | Z | 5.6 | 5.6 | 0 | 0 |
| 94 | M69 | Z | 5.6 | 5.6 | 0 | 0 |



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

| Member Label | Direction | Start Magnitude[lb/ft.F] | End Magnitude[lb/ft.F.psf] | Start Location[in.%] | End Location[in.%] | |
|--------------|-----------|--------------------------|----------------------------|----------------------|--------------------|---|
| 95 | M70 | Z | 5.6 | 5.6 | 0 | 0 |
| 96 | M71 | Z | 5.6 | 5.6 | 0 | 0 |
| 97 | M72 | Z | 5.6 | 5.6 | 0 | 0 |
| 98 | M73 | Z | 5.6 | 5.6 | 0 | 0 |
| 99 | M74 | Z | 5.6 | 5.6 | 0 | 0 |
| 100 | M75 | Z | 5.6 | 5.6 | 0 | 0 |
| 101 | M76 | Z | 5.6 | 5.6 | 0 | 0 |
| 102 | M89 | Z | 16.9 | 16.9 | 0 | 0 |
| 103 | M90 | Z | 16.9 | 16.9 | 0 | 0 |
| 104 | M91 | Z | 22.4 | 22.4 | 0 | 0 |
| 105 | M92 | Z | 16.9 | 16.9 | 0 | 0 |
| 106 | M93 | Z | 16.9 | 16.9 | 0 | 0 |
| 107 | M94 | Z | 22.4 | 22.4 | 0 | 0 |
| 108 | M95 | Z | 16.9 | 16.9 | 0 | 0 |
| 109 | M96 | Z | 16.9 | 16.9 | 0 | 0 |
| 110 | M97 | Z | 22.4 | 22.4 | 0 | 0 |

Member Distributed Loads (BLC 6 : Wind (120 deg))

| Member Label | Direction | Start Magnitude[lb/ft.F] | End Magnitude[lb/ft.F.psf] | Start Location[in.%] | End Location[in.%] | |
|--------------|-----------|--------------------------|----------------------------|----------------------|--------------------|---|
| 1 | M1 | X | 3.3 | 3.3 | 0 | 0 |
| 2 | M2 | X | 4.9 | 4.9 | 0 | 0 |
| 3 | M3 | X | 4.9 | 4.9 | 0 | 0 |
| 4 | M4 | X | 3.3 | 3.3 | 0 | 0 |
| 5 | M5 | X | 3.3 | 3.3 | 0 | 0 |
| 6 | M6 | X | 3.3 | 3.3 | 0 | 0 |
| 7 | M19 | X | 3.3 | 3.3 | 0 | 0 |
| 8 | M20 | X | 3.3 | 3.3 | 0 | 0 |
| 9 | M21 | X | 3.3 | 3.3 | 0 | 0 |
| 10 | M22 | X | 3.3 | 3.3 | 0 | 0 |
| 11 | M23 | X | 3.3 | 3.3 | 0 | 0 |
| 12 | M24 | X | 3.3 | 3.3 | 0 | 0 |
| 13 | M25 | X | 3.3 | 3.3 | 0 | 0 |
| 14 | M26 | X | 3.3 | 3.3 | 0 | 0 |
| 15 | M27 | X | 3.3 | 3.3 | 0 | 0 |
| 16 | M28 | X | 3.3 | 3.3 | 0 | 0 |
| 17 | M29 | X | 4.9 | 4.9 | 0 | 0 |
| 18 | M30 | X | 4.9 | 4.9 | 0 | 0 |
| 19 | M31 | X | 3.3 | 3.3 | 0 | 0 |
| 20 | M32 | X | 3.3 | 3.3 | 0 | 0 |
| 21 | M33 | X | 3.3 | 3.3 | 0 | 0 |
| 22 | M43 | X | 3.3 | 3.3 | 0 | 0 |
| 23 | M44 | X | 3.3 | 3.3 | 0 | 0 |
| 24 | M45 | X | 3.3 | 3.3 | 0 | 0 |
| 25 | M46 | X | 3.3 | 3.3 | 0 | 0 |
| 26 | M47 | X | 3.3 | 3.3 | 0 | 0 |
| 27 | M48 | X | 3.3 | 3.3 | 0 | 0 |
| 28 | M49 | X | 3.3 | 3.3 | 0 | 0 |
| 29 | M50 | X | 4.9 | 4.9 | 0 | 0 |
| 30 | M51 | X | 4.9 | 4.9 | 0 | 0 |
| 31 | M52 | X | 3.3 | 3.3 | 0 | 0 |
| 32 | M53 | X | 3.3 | 3.3 | 0 | 0 |
| 33 | M54 | X | 3.3 | 3.3 | 0 | 0 |
| 34 | M64 | X | 3.3 | 3.3 | 0 | 0 |
| 35 | M65 | X | 3.3 | 3.3 | 0 | 0 |
| 36 | M66 | X | 3.3 | 3.3 | 0 | 0 |
| 37 | M67 | X | 3.3 | 3.3 | 0 | 0 |



Company : Infinigy Engineering, LLC
 Designer : DVA
 Job Number : 1009-Z0003-B
 Model Name : MRCTB046850

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Member Distributed Loads (BLC 6 : Wind (120 deg)) (Continued)

| Member Label | Direction | Start Magnitude(lb/ft F) | End Magnitude(lb/ft F psf) | Start Location(in %) | End Location(in %) | |
|--------------|-----------|--------------------------|----------------------------|----------------------|--------------------|---|
| 38 | M68 | X | 3.3 | 3.3 | 0 | 0 |
| 39 | M69 | X | 3.3 | 3.3 | 0 | 0 |
| 40 | M70 | X | 3.3 | 3.3 | 0 | 0 |
| 41 | M71 | X | 3.3 | 3.3 | 0 | 0 |
| 42 | M72 | X | 3.3 | 3.3 | 0 | 0 |
| 43 | M73 | X | 3.3 | 3.3 | 0 | 0 |
| 44 | M74 | X | 3.3 | 3.3 | 0 | 0 |
| 45 | M75 | X | 3.3 | 3.3 | 0 | 0 |
| 46 | M76 | X | 3.3 | 3.3 | 0 | 0 |
| 47 | M89 | X | 9.8 | 9.8 | 0 | 0 |
| 48 | M90 | X | 9.8 | 9.8 | 0 | 0 |
| 49 | M91 | X | 13 | 13 | 0 | 0 |
| 50 | M92 | X | 9.8 | 9.8 | 0 | 0 |
| 51 | M93 | X | 9.8 | 9.8 | 0 | 0 |
| 52 | M94 | X | 13 | 13 | 0 | 0 |
| 53 | M95 | X | 9.8 | 9.8 | 0 | 0 |
| 54 | M96 | X | 9.8 | 9.8 | 0 | 0 |
| 55 | M97 | X | 13 | 13 | 0 | 0 |
| 56 | M1 | Z | 5.6 | 5.6 | 0 | 0 |
| 57 | M2 | Z | 8.4 | 8.4 | 0 | 0 |
| 58 | M3 | Z | 8.4 | 8.4 | 0 | 0 |
| 59 | M4 | Z | 5.6 | 5.6 | 0 | 0 |
| 60 | M5 | Z | 5.6 | 5.6 | 0 | 0 |
| 61 | M6 | Z | 5.6 | 5.6 | 0 | 0 |
| 62 | M19 | Z | 5.6 | 5.6 | 0 | 0 |
| 63 | M20 | Z | 5.6 | 5.6 | 0 | 0 |
| 64 | M21 | Z | 5.6 | 5.6 | 0 | 0 |
| 65 | M22 | Z | 5.6 | 5.6 | 0 | 0 |
| 66 | M23 | Z | 5.6 | 5.6 | 0 | 0 |
| 67 | M24 | Z | 5.6 | 5.6 | 0 | 0 |
| 68 | M25 | Z | 5.6 | 5.6 | 0 | 0 |
| 69 | M26 | Z | 5.6 | 5.6 | 0 | 0 |
| 70 | M27 | Z | 5.6 | 5.6 | 0 | 0 |
| 71 | M28 | Z | 5.6 | 5.6 | 0 | 0 |
| 72 | M29 | Z | 8.4 | 8.4 | 0 | 0 |
| 73 | M30 | Z | 8.4 | 8.4 | 0 | 0 |
| 74 | M31 | Z | 5.6 | 5.6 | 0 | 0 |
| 75 | M32 | Z | 5.6 | 5.6 | 0 | 0 |
| 76 | M33 | Z | 5.6 | 5.6 | 0 | 0 |
| 77 | M43 | Z | 5.6 | 5.6 | 0 | 0 |
| 78 | M44 | Z | 5.6 | 5.6 | 0 | 0 |
| 79 | M45 | Z | 5.6 | 5.6 | 0 | 0 |
| 80 | M46 | Z | 5.6 | 5.6 | 0 | 0 |
| 81 | M47 | Z | 5.6 | 5.6 | 0 | 0 |
| 82 | M48 | Z | 5.6 | 5.6 | 0 | 0 |
| 83 | M49 | Z | 5.6 | 5.6 | 0 | 0 |
| 84 | M50 | Z | 8.4 | 8.4 | 0 | 0 |
| 85 | M51 | Z | 8.4 | 8.4 | 0 | 0 |
| 86 | M52 | Z | 5.6 | 5.6 | 0 | 0 |
| 87 | M53 | Z | 5.6 | 5.6 | 0 | 0 |
| 88 | M54 | Z | 5.6 | 5.6 | 0 | 0 |
| 89 | M64 | Z | 5.6 | 5.6 | 0 | 0 |
| 90 | M65 | Z | 5.6 | 5.6 | 0 | 0 |
| 91 | M66 | Z | 5.6 | 5.6 | 0 | 0 |
| 92 | M67 | Z | 5.6 | 5.6 | 0 | 0 |
| 93 | M68 | Z | 5.6 | 5.6 | 0 | 0 |
| 94 | M69 | Z | 5.6 | 5.6 | 0 | 0 |



Company : Infinigy Engineering, LLC
 Designer : DVA
 Job Number : 1009-Z0003-B
 Model Name : MRCTB046850

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Member Distributed Loads (BLC 6 : Wind (120 deg)) (Continued)

| Member Label | Direction | Start Magnitude[lb/ft.F] | End Magnitude[lb/ft.F.psf] | Start Location[in.%] | End Location[in.%] | |
|--------------|-----------|--------------------------|----------------------------|----------------------|--------------------|---|
| 95 | M70 | Z | 5.6 | 5.6 | 0 | 0 |
| 96 | M71 | Z | 5.6 | 5.6 | 0 | 0 |
| 97 | M72 | Z | 5.6 | 5.6 | 0 | 0 |
| 98 | M73 | Z | 5.6 | 5.6 | 0 | 0 |
| 99 | M74 | Z | 5.6 | 5.6 | 0 | 0 |
| 100 | M75 | Z | 5.6 | 5.6 | 0 | 0 |
| 101 | M76 | Z | 5.6 | 5.6 | 0 | 0 |
| 102 | M89 | Z | 16.9 | 16.9 | 0 | 0 |
| 103 | M90 | Z | 16.9 | 16.9 | 0 | 0 |
| 104 | M91 | Z | 22.4 | 22.4 | 0 | 0 |
| 105 | M92 | Z | 16.9 | 16.9 | 0 | 0 |
| 106 | M93 | Z | 16.9 | 16.9 | 0 | 0 |
| 107 | M94 | Z | 22.4 | 22.4 | 0 | 0 |
| 108 | M95 | Z | 16.9 | 16.9 | 0 | 0 |
| 109 | M96 | Z | 16.9 | 16.9 | 0 | 0 |
| 110 | M97 | Z | 22.4 | 22.4 | 0 | 0 |

Member Distributed Loads (BLC 7 : Wind (150 deg))

| Member Label | Direction | Start Magnitude[lb/ft.F] | End Magnitude[lb/ft.F.psf] | Start Location[in.%] | End Location[in.%] | |
|--------------|-----------|--------------------------|----------------------------|----------------------|--------------------|---|
| 1 | M1 | X | 5.6 | 5.6 | 0 | 0 |
| 2 | M2 | X | 8.4 | 8.4 | 0 | 0 |
| 3 | M3 | X | 8.4 | 8.4 | 0 | 0 |
| 4 | M4 | X | 5.6 | 5.6 | 0 | 0 |
| 5 | M5 | X | 5.6 | 5.6 | 0 | 0 |
| 6 | M6 | X | 5.6 | 5.6 | 0 | 0 |
| 7 | M19 | X | 5.6 | 5.6 | 0 | 0 |
| 8 | M20 | X | 5.6 | 5.6 | 0 | 0 |
| 9 | M21 | X | 5.6 | 5.6 | 0 | 0 |
| 10 | M22 | X | 5.6 | 5.6 | 0 | 0 |
| 11 | M23 | X | 5.6 | 5.6 | 0 | 0 |
| 12 | M24 | X | 5.6 | 5.6 | 0 | 0 |
| 13 | M25 | X | 5.6 | 5.6 | 0 | 0 |
| 14 | M26 | X | 5.6 | 5.6 | 0 | 0 |
| 15 | M27 | X | 5.6 | 5.6 | 0 | 0 |
| 16 | M28 | X | 5.6 | 5.6 | 0 | 0 |
| 17 | M29 | X | 8.4 | 8.4 | 0 | 0 |
| 18 | M30 | X | 8.4 | 8.4 | 0 | 0 |
| 19 | M31 | X | 5.6 | 5.6 | 0 | 0 |
| 20 | M32 | X | 5.6 | 5.6 | 0 | 0 |
| 21 | M33 | X | 5.6 | 5.6 | 0 | 0 |
| 22 | M43 | X | 5.6 | 5.6 | 0 | 0 |
| 23 | M44 | X | 5.6 | 5.6 | 0 | 0 |
| 24 | M45 | X | 5.6 | 5.6 | 0 | 0 |
| 25 | M46 | X | 5.6 | 5.6 | 0 | 0 |
| 26 | M47 | X | 5.6 | 5.6 | 0 | 0 |
| 27 | M48 | X | 5.6 | 5.6 | 0 | 0 |
| 28 | M49 | X | 5.6 | 5.6 | 0 | 0 |
| 29 | M50 | X | 8.4 | 8.4 | 0 | 0 |
| 30 | M51 | X | 8.4 | 8.4 | 0 | 0 |
| 31 | M52 | X | 5.6 | 5.6 | 0 | 0 |
| 32 | M53 | X | 5.6 | 5.6 | 0 | 0 |
| 33 | M54 | X | 5.6 | 5.6 | 0 | 0 |
| 34 | M64 | X | 5.6 | 5.6 | 0 | 0 |
| 35 | M65 | X | 5.6 | 5.6 | 0 | 0 |
| 36 | M66 | X | 5.6 | 5.6 | 0 | 0 |
| 37 | M67 | X | 5.6 | 5.6 | 0 | 0 |



Company : Infinigy Engineering, LLC
 Designer : DVA
 Job Number : 1009-Z0003-B
 Model Name : MRCTB046850

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Member Distributed Loads (BLC 7 : Wind (150 deg)) (Continued)

| Member Label | Direction | Start Magnitude(lb/ft F) | End Magnitude(lb/ft F psf) | Start Location(in %) | End Location(in %) | |
|--------------|-----------|--------------------------|----------------------------|----------------------|--------------------|---|
| 38 | M68 | X | 5.6 | 5.6 | 0 | 0 |
| 39 | M69 | X | 5.6 | 5.6 | 0 | 0 |
| 40 | M70 | X | 5.6 | 5.6 | 0 | 0 |
| 41 | M71 | X | 5.6 | 5.6 | 0 | 0 |
| 42 | M72 | X | 5.6 | 5.6 | 0 | 0 |
| 43 | M73 | X | 5.6 | 5.6 | 0 | 0 |
| 44 | M74 | X | 5.6 | 5.6 | 0 | 0 |
| 45 | M75 | X | 5.6 | 5.6 | 0 | 0 |
| 46 | M76 | X | 5.6 | 5.6 | 0 | 0 |
| 47 | M89 | X | 16.9 | 16.9 | 0 | 0 |
| 48 | M90 | X | 16.9 | 16.9 | 0 | 0 |
| 49 | M91 | X | 22.4 | 22.4 | 0 | 0 |
| 50 | M92 | X | 16.9 | 16.9 | 0 | 0 |
| 51 | M93 | X | 16.9 | 16.9 | 0 | 0 |
| 52 | M94 | X | 22.4 | 22.4 | 0 | 0 |
| 53 | M95 | X | 16.9 | 16.9 | 0 | 0 |
| 54 | M96 | X | 16.9 | 16.9 | 0 | 0 |
| 55 | M97 | X | 22.4 | 22.4 | 0 | 0 |
| 56 | M1 | Z | 3.3 | 3.3 | 0 | 0 |
| 57 | M2 | Z | 4.9 | 4.9 | 0 | 0 |
| 58 | M3 | Z | 4.9 | 4.9 | 0 | 0 |
| 59 | M4 | Z | 3.3 | 3.3 | 0 | 0 |
| 60 | M5 | Z | 3.3 | 3.3 | 0 | 0 |
| 61 | M6 | Z | 3.3 | 3.3 | 0 | 0 |
| 62 | M19 | Z | 3.3 | 3.3 | 0 | 0 |
| 63 | M20 | Z | 3.3 | 3.3 | 0 | 0 |
| 64 | M21 | Z | 3.3 | 3.3 | 0 | 0 |
| 65 | M22 | Z | 3.3 | 3.3 | 0 | 0 |
| 66 | M23 | Z | 3.3 | 3.3 | 0 | 0 |
| 67 | M24 | Z | 3.3 | 3.3 | 0 | 0 |
| 68 | M25 | Z | 3.3 | 3.3 | 0 | 0 |
| 69 | M26 | Z | 3.3 | 3.3 | 0 | 0 |
| 70 | M27 | Z | 3.3 | 3.3 | 0 | 0 |
| 71 | M28 | Z | 3.3 | 3.3 | 0 | 0 |
| 72 | M29 | Z | 4.9 | 4.9 | 0 | 0 |
| 73 | M30 | Z | 4.9 | 4.9 | 0 | 0 |
| 74 | M31 | Z | 3.3 | 3.3 | 0 | 0 |
| 75 | M32 | Z | 3.3 | 3.3 | 0 | 0 |
| 76 | M33 | Z | 3.3 | 3.3 | 0 | 0 |
| 77 | M43 | Z | 3.3 | 3.3 | 0 | 0 |
| 78 | M44 | Z | 3.3 | 3.3 | 0 | 0 |
| 79 | M45 | Z | 3.3 | 3.3 | 0 | 0 |
| 80 | M46 | Z | 3.3 | 3.3 | 0 | 0 |
| 81 | M47 | Z | 3.3 | 3.3 | 0 | 0 |
| 82 | M48 | Z | 3.3 | 3.3 | 0 | 0 |
| 83 | M49 | Z | 3.3 | 3.3 | 0 | 0 |
| 84 | M50 | Z | 4.9 | 4.9 | 0 | 0 |
| 85 | M51 | Z | 4.9 | 4.9 | 0 | 0 |
| 86 | M52 | Z | 3.3 | 3.3 | 0 | 0 |
| 87 | M53 | Z | 3.3 | 3.3 | 0 | 0 |
| 88 | M54 | Z | 3.3 | 3.3 | 0 | 0 |
| 89 | M64 | Z | 3.3 | 3.3 | 0 | 0 |
| 90 | M65 | Z | 3.3 | 3.3 | 0 | 0 |
| 91 | M66 | Z | 3.3 | 3.3 | 0 | 0 |
| 92 | M67 | Z | 3.3 | 3.3 | 0 | 0 |
| 93 | M68 | Z | 3.3 | 3.3 | 0 | 0 |
| 94 | M69 | Z | 3.3 | 3.3 | 0 | 0 |



Member Distributed Loads (BLC 7 : Wind (150 deg)) (Continued)

| Member Label | Direction | Start Magnitude[lb/ft.F] | End Magnitude[lb/ft.F.psf] | Start Location[in.%] | End Location[in.%] | |
|--------------|-----------|--------------------------|----------------------------|----------------------|--------------------|---|
| 95 | M70 | Z | 3.3 | 3.3 | 0 | 0 |
| 96 | M71 | Z | 3.3 | 3.3 | 0 | 0 |
| 97 | M72 | Z | 3.3 | 3.3 | 0 | 0 |
| 98 | M73 | Z | 3.3 | 3.3 | 0 | 0 |
| 99 | M74 | Z | 3.3 | 3.3 | 0 | 0 |
| 100 | M75 | Z | 3.3 | 3.3 | 0 | 0 |
| 101 | M76 | Z | 3.3 | 3.3 | 0 | 0 |
| 102 | M89 | Z | 9.8 | 9.8 | 0 | 0 |
| 103 | M90 | Z | 9.8 | 9.8 | 0 | 0 |
| 104 | M91 | Z | 13 | 13 | 0 | 0 |
| 105 | M92 | Z | 9.8 | 9.8 | 0 | 0 |
| 106 | M93 | Z | 9.8 | 9.8 | 0 | 0 |
| 107 | M94 | Z | 13 | 13 | 0 | 0 |
| 108 | M95 | Z | 9.8 | 9.8 | 0 | 0 |
| 109 | M96 | Z | 9.8 | 9.8 | 0 | 0 |
| 110 | M97 | Z | 13 | 13 | 0 | 0 |

Member Distributed Loads (BLC 8 : Dead Ice)

| Member Label | Direction | Start Magnitude[lb/ft.F] | End Magnitude[lb/ft.F.psf] | Start Location[in.%] | End Location[in.%] | |
|--------------|-----------|--------------------------|----------------------------|----------------------|--------------------|---|
| 1 | M1 | Y | -3 | -3 | 0 | 0 |
| 2 | M2 | Y | -3.9 | -3.9 | 0 | 0 |
| 3 | M3 | Y | -3.9 | -3.9 | 0 | 0 |
| 4 | M4 | Y | -3 | -3 | 0 | 0 |
| 5 | M5 | Y | -3 | -3 | 0 | 0 |
| 6 | M6 | Y | -3 | -3 | 0 | 0 |
| 7 | M11 | Y | -4.2 | -4.2 | 0 | 0 |
| 8 | M14 | Y | -4.2 | -4.2 | 0 | 0 |
| 9 | M15 | Y | -4.2 | -4.2 | 0 | 0 |
| 10 | M18 | Y | -4.2 | -4.2 | 0 | 0 |
| 11 | M19 | Y | -3 | -3 | 0 | 0 |
| 12 | M20 | Y | -3 | -3 | 0 | 0 |
| 13 | M21 | Y | -3 | -3 | 0 | 0 |
| 14 | M22 | Y | -3 | -3 | 0 | 0 |
| 15 | M23 | Y | -3 | -3 | 0 | 0 |
| 16 | M24 | Y | -3 | -3 | 0 | 0 |
| 17 | M25 | Y | -3 | -3 | 0 | 0 |
| 18 | M26 | Y | -3 | -3 | 0 | 0 |
| 19 | M27 | Y | -3 | -3 | 0 | 0 |
| 20 | M28 | Y | -3 | -3 | 0 | 0 |
| 21 | M29 | Y | -3.9 | -3.9 | 0 | 0 |
| 22 | M30 | Y | -3.9 | -3.9 | 0 | 0 |
| 23 | M31 | Y | -3 | -3 | 0 | 0 |
| 24 | M32 | Y | -3 | -3 | 0 | 0 |
| 25 | M33 | Y | -3 | -3 | 0 | 0 |
| 26 | M38 | Y | -4.2 | -4.2 | 0 | 0 |
| 27 | M41 | Y | -4.2 | -4.2 | 0 | 0 |
| 28 | M42 | Y | -4.2 | -4.2 | 0 | 0 |
| 29 | M43 | Y | -3 | -3 | 0 | 0 |
| 30 | M44 | Y | -3 | -3 | 0 | 0 |
| 31 | M45 | Y | -3 | -3 | 0 | 0 |
| 32 | M46 | Y | -3 | -3 | 0 | 0 |
| 33 | M47 | Y | -3 | -3 | 0 | 0 |
| 34 | M48 | Y | -3 | -3 | 0 | 0 |
| 35 | M49 | Y | -3 | -3 | 0 | 0 |
| 36 | M50 | Y | -3.9 | -3.9 | 0 | 0 |
| 37 | M51 | Y | -3.9 | -3.9 | 0 | 0 |



Member Distributed Loads (BLC 8 : Dead Ice) (Continued)

| Member Label | Direction | Start Magnitude[lb/ft F] | End Magnitude[lb/ft F,psf] | Start Location[in, %] | End Location[in, %] | |
|--------------|-----------|--------------------------|----------------------------|-----------------------|---------------------|---|
| 38 | M52 | Y | -3 | -3 | 0 | 0 |
| 39 | M53 | Y | -3 | -3 | 0 | 0 |
| 40 | M54 | Y | -3 | -3 | 0 | 0 |
| 41 | M59 | Y | -4.2 | -4.2 | 0 | 0 |
| 42 | M62 | Y | -4.2 | -4.2 | 0 | 0 |
| 43 | M63 | Y | -4.2 | -4.2 | 0 | 0 |
| 44 | M64 | Y | -3 | -3 | 0 | 0 |
| 45 | M65 | Y | -3 | -3 | 0 | 0 |
| 46 | M66 | Y | -3 | -3 | 0 | 0 |
| 47 | M67 | Y | -3 | -3 | 0 | 0 |
| 48 | M68 | Y | -3 | -3 | 0 | 0 |
| 49 | M69 | Y | -3 | -3 | 0 | 0 |
| 50 | M70 | Y | -3 | -3 | 0 | 0 |
| 51 | M71 | Y | -3 | -3 | 0 | 0 |
| 52 | M72 | Y | -3 | -3 | 0 | 0 |
| 53 | M73 | Y | -3 | -3 | 0 | 0 |
| 54 | M74 | Y | -3 | -3 | 0 | 0 |
| 55 | M75 | Y | -3 | -3 | 0 | 0 |
| 56 | M76 | Y | -3 | -3 | 0 | 0 |
| 57 | M89 | Y | -5.4 | -5.4 | 0 | 0 |
| 58 | M90 | Y | -5.4 | -5.4 | 0 | 0 |
| 59 | M91 | Y | -8.2 | -8.2 | 0 | 0 |
| 60 | M92 | Y | -5.4 | -5.4 | 0 | 0 |
| 61 | M93 | Y | -5.4 | -5.4 | 0 | 0 |
| 62 | M94 | Y | -8.2 | -8.2 | 0 | 0 |
| 63 | M95 | Y | -5.4 | -5.4 | 0 | 0 |
| 64 | M96 | Y | -5.4 | -5.4 | 0 | 0 |
| 65 | M97 | Y | -8.2 | -8.2 | 0 | 0 |
| 66 | M100 | Y | -4.2 | -4.2 | 0 | 0 |
| 67 | M103 | Y | -4.2 | -4.2 | 0 | 0 |

Member Distributed Loads (BLC 9 : Wind + Ice (0 deg))

| Member Label | Direction | Start Magnitude[lb/ft F] | End Magnitude[lb/ft F,psf] | Start Location[in, %] | End Location[in, %] | |
|--------------|-----------|--------------------------|----------------------------|-----------------------|---------------------|---|
| 1 | M1 | X | -3.4 | -3.4 | 0 | 0 |
| 2 | M2 | X | -3.9 | -3.9 | 0 | 0 |
| 3 | M3 | X | -3.9 | -3.9 | 0 | 0 |
| 4 | M4 | X | -3.4 | -3.4 | 0 | 0 |
| 5 | M5 | X | -3.4 | -3.4 | 0 | 0 |
| 6 | M6 | X | -3.4 | -3.4 | 0 | 0 |
| 7 | M19 | X | -3.4 | -3.4 | 0 | 0 |
| 8 | M20 | X | -3.4 | -3.4 | 0 | 0 |
| 9 | M21 | X | -3.4 | -3.4 | 0 | 0 |
| 10 | M22 | X | -3.4 | -3.4 | 0 | 0 |
| 11 | M23 | X | -3.4 | -3.4 | 0 | 0 |
| 12 | M24 | X | -3.4 | -3.4 | 0 | 0 |
| 13 | M25 | X | -3.4 | -3.4 | 0 | 0 |
| 14 | M26 | X | -3.4 | -3.4 | 0 | 0 |
| 15 | M27 | X | -3.4 | -3.4 | 0 | 0 |
| 16 | M28 | X | -3.4 | -3.4 | 0 | 0 |
| 17 | M29 | X | -3.9 | -3.9 | 0 | 0 |
| 18 | M30 | X | -3.9 | -3.9 | 0 | 0 |
| 19 | M31 | X | -3.4 | -3.4 | 0 | 0 |
| 20 | M32 | X | -3.4 | -3.4 | 0 | 0 |
| 21 | M33 | X | -3.4 | -3.4 | 0 | 0 |
| 22 | M43 | X | -3.4 | -3.4 | 0 | 0 |
| 23 | M44 | X | -3.4 | -3.4 | 0 | 0 |



Member Distributed Loads (BLC 9 : Wind + Ice (0 deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft F] | End Magnitude[lb/ft F,psf] | Start Location[in, %] | End Location[in, %] |
|----|--------------|-----------|--------------------------|----------------------------|-----------------------|---------------------|
| 24 | M45 | X | -3.4 | -3.4 | 0 | 0 |
| 25 | M46 | X | -3.4 | -3.4 | 0 | 0 |
| 26 | M47 | X | -3.4 | -3.4 | 0 | 0 |
| 27 | M48 | X | -3.4 | -3.4 | 0 | 0 |
| 28 | M49 | X | -3.4 | -3.4 | 0 | 0 |
| 29 | M50 | X | -3.9 | -3.9 | 0 | 0 |
| 30 | M51 | X | -3.9 | -3.9 | 0 | 0 |
| 31 | M52 | X | -3.4 | -3.4 | 0 | 0 |
| 32 | M53 | X | -3.4 | -3.4 | 0 | 0 |
| 33 | M54 | X | -3.4 | -3.4 | 0 | 0 |
| 34 | M64 | X | -3.4 | -3.4 | 0 | 0 |
| 35 | M65 | X | -3.4 | -3.4 | 0 | 0 |
| 36 | M66 | X | -3.4 | -3.4 | 0 | 0 |
| 37 | M67 | X | -3.4 | -3.4 | 0 | 0 |
| 38 | M68 | X | -3.4 | -3.4 | 0 | 0 |
| 39 | M69 | X | -3.4 | -3.4 | 0 | 0 |
| 40 | M70 | X | -3.4 | -3.4 | 0 | 0 |
| 41 | M71 | X | -3.4 | -3.4 | 0 | 0 |
| 42 | M72 | X | -3.4 | -3.4 | 0 | 0 |
| 43 | M73 | X | -3.4 | -3.4 | 0 | 0 |
| 44 | M74 | X | -3.4 | -3.4 | 0 | 0 |
| 45 | M75 | X | -3.4 | -3.4 | 0 | 0 |
| 46 | M76 | X | -3.4 | -3.4 | 0 | 0 |
| 47 | M91 | X | -6.8 | -6.8 | 0 | 0 |
| 48 | M92 | X | -5.6 | -5.6 | 0 | 0 |
| 49 | M93 | X | -5.6 | -5.6 | 0 | 0 |
| 50 | M94 | X | -6.8 | -6.8 | 0 | 0 |
| 51 | M95 | X | -5.6 | -5.6 | 0 | 0 |
| 52 | M96 | X | -5.6 | -5.6 | 0 | 0 |
| 53 | M97 | X | -6.8 | -6.8 | 0 | 0 |

Member Distributed Loads (BLC 10 : Wind + Ice (90 deg))

| | Member Label | Direction | Start Magnitude[lb/ft F] | End Magnitude[lb/ft F,psf] | Start Location[in, %] | End Location[in, %] |
|----|--------------|-----------|--------------------------|----------------------------|-----------------------|---------------------|
| 1 | M11 | Z | 3 | 3 | 0 | 0 |
| 2 | M14 | Z | 3 | 3 | 0 | 0 |
| 3 | M15 | Z | 3 | 3 | 0 | 0 |
| 4 | M18 | Z | 3 | 3 | 0 | 0 |
| 5 | M19 | Z | 3.4 | 3.4 | 0 | 0 |
| 6 | M20 | Z | 3.4 | 3.4 | 0 | 0 |
| 7 | M24 | Z | 3.4 | 3.4 | 0 | 0 |
| 8 | M25 | Z | 3.4 | 3.4 | 0 | 0 |
| 9 | M26 | Z | 3.4 | 3.4 | 0 | 0 |
| 10 | M27 | Z | 3.4 | 3.4 | 0 | 0 |
| 11 | M28 | Z | 3.4 | 3.4 | 0 | 0 |
| 12 | M29 | Z | 3.9 | 3.9 | 0 | 0 |
| 13 | M30 | Z | 3.9 | 3.9 | 0 | 0 |
| 14 | M31 | Z | 3.4 | 3.4 | 0 | 0 |
| 15 | M32 | Z | 3.4 | 3.4 | 0 | 0 |
| 16 | M33 | Z | 3.4 | 3.4 | 0 | 0 |
| 17 | M38 | Z | 3 | 3 | 0 | 0 |
| 18 | M41 | Z | 3 | 3 | 0 | 0 |
| 19 | M42 | Z | 3 | 3 | 0 | 0 |
| 20 | M43 | Z | 3.4 | 3.4 | 0 | 0 |
| 21 | M44 | Z | 3.4 | 3.4 | 0 | 0 |
| 22 | M45 | Z | 3.4 | 3.4 | 0 | 0 |
| 23 | M46 | Z | 3.4 | 3.4 | 0 | 0 |



Company : Infinigy Engineering, LLC
 Designer : DVA
 Job Number : 1009-Z0003-B
 Model Name : MRCTB046850

July 15, 2020
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Member Distributed Loads (BLC 10 : Wind + Ice (90 deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft.F] | End Magnitude[lb/ft.F,psf] | Start Location[in.%] | End Location[in.%] |
|----|--------------|-----------|--------------------------|----------------------------|----------------------|--------------------|
| 24 | M47 | Z | 3.4 | 3.4 | 0 | 0 |
| 25 | M48 | Z | 3.4 | 3.4 | 0 | 0 |
| 26 | M49 | Z | 3.4 | 3.4 | 0 | 0 |
| 27 | M50 | Z | 3.9 | 3.9 | 0 | 0 |
| 28 | M51 | Z | 3.9 | 3.9 | 0 | 0 |
| 29 | M52 | Z | 3.4 | 3.4 | 0 | 0 |
| 30 | M53 | Z | 3.4 | 3.4 | 0 | 0 |
| 31 | M54 | Z | 3.4 | 3.4 | 0 | 0 |
| 32 | M59 | Z | 3 | 3 | 0 | 0 |
| 33 | M62 | Z | 3 | 3 | 0 | 0 |
| 34 | M63 | Z | 3 | 3 | 0 | 0 |
| 35 | M64 | Z | 3.4 | 3.4 | 0 | 0 |
| 36 | M65 | Z | 3.4 | 3.4 | 0 | 0 |
| 37 | M66 | Z | 3.4 | 3.4 | 0 | 0 |
| 38 | M67 | Z | 3.4 | 3.4 | 0 | 0 |
| 39 | M68 | Z | 3.4 | 3.4 | 0 | 0 |
| 40 | M69 | Z | 3.4 | 3.4 | 0 | 0 |
| 41 | M70 | Z | 3.4 | 3.4 | 0 | 0 |
| 42 | M72 | Z | 3.4 | 3.4 | 0 | 0 |
| 43 | M73 | Z | 3.4 | 3.4 | 0 | 0 |
| 44 | M74 | Z | 3.4 | 3.4 | 0 | 0 |
| 45 | M75 | Z | 3.4 | 3.4 | 0 | 0 |
| 46 | M76 | Z | 3.4 | 3.4 | 0 | 0 |
| 47 | M89 | Z | 5.6 | 5.6 | 0 | 0 |
| 48 | M90 | Z | 5.6 | 5.6 | 0 | 0 |
| 49 | M91 | Z | 6.8 | 6.8 | 0 | 0 |
| 50 | M92 | Z | 5.6 | 5.6 | 0 | 0 |
| 51 | M93 | Z | 5.6 | 5.6 | 0 | 0 |
| 52 | M94 | Z | 6.8 | 6.8 | 0 | 0 |
| 53 | M95 | Z | 5.6 | 5.6 | 0 | 0 |
| 54 | M96 | Z | 5.6 | 5.6 | 0 | 0 |
| 55 | M97 | Z | 6.8 | 6.8 | 0 | 0 |
| 56 | M100 | Z | 3 | 3 | 0 | 0 |
| 57 | M103 | Z | 3 | 3 | 0 | 0 |

Member Distributed Loads (BLC 11 : Wind + Ice (30 deg))

| | Member Label | Direction | Start Magnitude[lb/ft.F] | End Magnitude[lb/ft.F,psf] | Start Location[in.%] | End Location[in.%] |
|----|--------------|-----------|--------------------------|----------------------------|----------------------|--------------------|
| 1 | M1 | X | -2.9 | -2.9 | 0 | 0 |
| 2 | M2 | X | -3.4 | -3.4 | 0 | 0 |
| 3 | M3 | X | -3.4 | -3.4 | 0 | 0 |
| 4 | M4 | X | -2.9 | -2.9 | 0 | 0 |
| 5 | M5 | X | -2.9 | -2.9 | 0 | 0 |
| 6 | M6 | X | -2.9 | -2.9 | 0 | 0 |
| 7 | M19 | X | -2.9 | -2.9 | 0 | 0 |
| 8 | M20 | X | -2.9 | -2.9 | 0 | 0 |
| 9 | M21 | X | -2.9 | -2.9 | 0 | 0 |
| 10 | M22 | X | -2.9 | -2.9 | 0 | 0 |
| 11 | M23 | X | -2.9 | -2.9 | 0 | 0 |
| 12 | M24 | X | -2.9 | -2.9 | 0 | 0 |
| 13 | M25 | X | -2.9 | -2.9 | 0 | 0 |
| 14 | M26 | X | -2.9 | -2.9 | 0 | 0 |
| 15 | M27 | X | -2.9 | -2.9 | 0 | 0 |
| 16 | M28 | X | -2.9 | -2.9 | 0 | 0 |
| 17 | M29 | X | -3.4 | -3.4 | 0 | 0 |
| 18 | M30 | X | -3.4 | -3.4 | 0 | 0 |
| 19 | M31 | X | -2.9 | -2.9 | 0 | 0 |



Company : Infinigy Engineering, LLC
 Designer : DVA
 Job Number : 1009-Z0003-B
 Model Name : MRCTB046850

July 15, 2020
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Member Distributed Loads (BLC 11 : Wind + Ice (30 deg)) (Continued)

| Member Label | Direction | Start Magnitude(lb/ft F) | End Magnitude(lb/ft F psf) | Start Location(in %) | End Location(in %) | |
|--------------|-----------|--------------------------|----------------------------|----------------------|--------------------|---|
| 20 | M32 | X | -2.9 | -2.9 | 0 | 0 |
| 21 | M33 | X | -2.9 | -2.9 | 0 | 0 |
| 22 | M43 | X | -2.9 | -2.9 | 0 | 0 |
| 23 | M44 | X | -2.9 | -2.9 | 0 | 0 |
| 24 | M45 | X | -2.9 | -2.9 | 0 | 0 |
| 25 | M46 | X | -2.9 | -2.9 | 0 | 0 |
| 26 | M47 | X | -2.9 | -2.9 | 0 | 0 |
| 27 | M48 | X | -2.9 | -2.9 | 0 | 0 |
| 28 | M49 | X | -2.9 | -2.9 | 0 | 0 |
| 29 | M50 | X | -3.4 | -3.4 | 0 | 0 |
| 30 | M51 | X | -3.4 | -3.4 | 0 | 0 |
| 31 | M52 | X | -2.9 | -2.9 | 0 | 0 |
| 32 | M53 | X | -2.9 | -2.9 | 0 | 0 |
| 33 | M54 | X | -2.9 | -2.9 | 0 | 0 |
| 34 | M64 | X | -2.9 | -2.9 | 0 | 0 |
| 35 | M65 | X | -2.9 | -2.9 | 0 | 0 |
| 36 | M66 | X | -2.9 | -2.9 | 0 | 0 |
| 37 | M67 | X | -2.9 | -2.9 | 0 | 0 |
| 38 | M68 | X | -2.9 | -2.9 | 0 | 0 |
| 39 | M69 | X | -2.9 | -2.9 | 0 | 0 |
| 40 | M70 | X | -2.9 | -2.9 | 0 | 0 |
| 41 | M71 | X | -2.9 | -2.9 | 0 | 0 |
| 42 | M72 | X | -2.9 | -2.9 | 0 | 0 |
| 43 | M73 | X | -2.9 | -2.9 | 0 | 0 |
| 44 | M74 | X | -2.9 | -2.9 | 0 | 0 |
| 45 | M75 | X | -2.9 | -2.9 | 0 | 0 |
| 46 | M76 | X | -2.9 | -2.9 | 0 | 0 |
| 47 | M89 | X | -4.8 | -4.8 | 0 | 0 |
| 48 | M90 | X | -4.8 | -4.8 | 0 | 0 |
| 49 | M91 | X | -5.9 | -5.9 | 0 | 0 |
| 50 | M92 | X | -4.8 | -4.8 | 0 | 0 |
| 51 | M93 | X | -4.8 | -4.8 | 0 | 0 |
| 52 | M94 | X | -5.9 | -5.9 | 0 | 0 |
| 53 | M95 | X | -4.8 | -4.8 | 0 | 0 |
| 54 | M96 | X | -4.8 | -4.8 | 0 | 0 |
| 55 | M97 | X | -5.9 | -5.9 | 0 | 0 |
| 56 | M1 | Z | 1.7 | 1.7 | 0 | 0 |
| 57 | M2 | Z | 2 | 2 | 0 | 0 |
| 58 | M3 | Z | 2 | 2 | 0 | 0 |
| 59 | M4 | Z | 1.7 | 1.7 | 0 | 0 |
| 60 | M5 | Z | 1.7 | 1.7 | 0 | 0 |
| 61 | M6 | Z | 1.7 | 1.7 | 0 | 0 |
| 62 | M19 | Z | 1.7 | 1.7 | 0 | 0 |
| 63 | M20 | Z | 1.7 | 1.7 | 0 | 0 |
| 64 | M21 | Z | 1.7 | 1.7 | 0 | 0 |
| 65 | M22 | Z | 1.7 | 1.7 | 0 | 0 |
| 66 | M23 | Z | 1.7 | 1.7 | 0 | 0 |
| 67 | M24 | Z | 1.7 | 1.7 | 0 | 0 |
| 68 | M25 | Z | 1.7 | 1.7 | 0 | 0 |
| 69 | M26 | Z | 1.7 | 1.7 | 0 | 0 |
| 70 | M27 | Z | 1.7 | 1.7 | 0 | 0 |
| 71 | M28 | Z | 1.7 | 1.7 | 0 | 0 |
| 72 | M29 | Z | 2 | 2 | 0 | 0 |
| 73 | M30 | Z | 2 | 2 | 0 | 0 |
| 74 | M31 | Z | 1.7 | 1.7 | 0 | 0 |
| 75 | M32 | Z | 1.7 | 1.7 | 0 | 0 |
| 76 | M33 | Z | 1.7 | 1.7 | 0 | 0 |



Member Distributed Loads (BLC 11 : Wind + Ice (30 deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft.F] | End Magnitude[lb/ft.F,psf] | Start Location[in.%] | End Location[in.%] |
|-----|--------------|-----------|--------------------------|----------------------------|----------------------|--------------------|
| 77 | M43 | Z | 1.7 | 1.7 | 0 | 0 |
| 78 | M44 | Z | 1.7 | 1.7 | 0 | 0 |
| 79 | M45 | Z | 1.7 | 1.7 | 0 | 0 |
| 80 | M46 | Z | 1.7 | 1.7 | 0 | 0 |
| 81 | M47 | Z | 1.7 | 1.7 | 0 | 0 |
| 82 | M48 | Z | 1.7 | 1.7 | 0 | 0 |
| 83 | M49 | Z | 1.7 | 1.7 | 0 | 0 |
| 84 | M50 | Z | 2 | 2 | 0 | 0 |
| 85 | M51 | Z | 2 | 2 | 0 | 0 |
| 86 | M52 | Z | 1.7 | 1.7 | 0 | 0 |
| 87 | M53 | Z | 1.7 | 1.7 | 0 | 0 |
| 88 | M54 | Z | 1.7 | 1.7 | 0 | 0 |
| 89 | M64 | Z | 1.7 | 1.7 | 0 | 0 |
| 90 | M65 | Z | 1.7 | 1.7 | 0 | 0 |
| 91 | M66 | Z | 1.7 | 1.7 | 0 | 0 |
| 92 | M67 | Z | 1.7 | 1.7 | 0 | 0 |
| 93 | M68 | Z | 1.7 | 1.7 | 0 | 0 |
| 94 | M69 | Z | 1.7 | 1.7 | 0 | 0 |
| 95 | M70 | Z | 1.7 | 1.7 | 0 | 0 |
| 96 | M71 | Z | 1.7 | 1.7 | 0 | 0 |
| 97 | M72 | Z | 1.7 | 1.7 | 0 | 0 |
| 98 | M73 | Z | 1.7 | 1.7 | 0 | 0 |
| 99 | M74 | Z | 1.7 | 1.7 | 0 | 0 |
| 100 | M75 | Z | 1.7 | 1.7 | 0 | 0 |
| 101 | M76 | Z | 1.7 | 1.7 | 0 | 0 |
| 102 | M89 | Z | 2.8 | 2.8 | 0 | 0 |
| 103 | M90 | Z | 2.8 | 2.8 | 0 | 0 |
| 104 | M91 | Z | 3.4 | 3.4 | 0 | 0 |
| 105 | M92 | Z | 2.8 | 2.8 | 0 | 0 |
| 106 | M93 | Z | 2.8 | 2.8 | 0 | 0 |
| 107 | M94 | Z | 3.4 | 3.4 | 0 | 0 |
| 108 | M95 | Z | 2.8 | 2.8 | 0 | 0 |
| 109 | M96 | Z | 2.8 | 2.8 | 0 | 0 |
| 110 | M97 | Z | 3.4 | 3.4 | 0 | 0 |

Member Distributed Loads (BLC 12 : Wind + Ice (60 deg))

| | Member Label | Direction | Start Magnitude[lb/ft.F] | End Magnitude[lb/ft.F,psf] | Start Location[in.%] | End Location[in.%] |
|----|--------------|-----------|--------------------------|----------------------------|----------------------|--------------------|
| 1 | M1 | X | -1.7 | -1.7 | 0 | 0 |
| 2 | M2 | X | -2 | -2 | 0 | 0 |
| 3 | M3 | X | -2 | -2 | 0 | 0 |
| 4 | M4 | X | -1.7 | -1.7 | 0 | 0 |
| 5 | M5 | X | -1.7 | -1.7 | 0 | 0 |
| 6 | M6 | X | -1.7 | -1.7 | 0 | 0 |
| 7 | M19 | X | -1.7 | -1.7 | 0 | 0 |
| 8 | M20 | X | -1.7 | -1.7 | 0 | 0 |
| 9 | M21 | X | -1.7 | -1.7 | 0 | 0 |
| 10 | M22 | X | -1.7 | -1.7 | 0 | 0 |
| 11 | M23 | X | -1.7 | -1.7 | 0 | 0 |
| 12 | M24 | X | -1.7 | -1.7 | 0 | 0 |
| 13 | M25 | X | -1.7 | -1.7 | 0 | 0 |
| 14 | M26 | X | -1.7 | -1.7 | 0 | 0 |
| 15 | M27 | X | -1.7 | -1.7 | 0 | 0 |
| 16 | M28 | X | -1.7 | -1.7 | 0 | 0 |
| 17 | M29 | X | -2 | -2 | 0 | 0 |
| 18 | M30 | X | -2 | -2 | 0 | 0 |
| 19 | M31 | X | -1.7 | -1.7 | 0 | 0 |



Company : Infinigy Engineering, LLC
 Designer : DVA
 Job Number : 1009-Z0003-B
 Model Name : MRCTB046850

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Member Distributed Loads (BLC 12 : Wind + Ice (60 deg)) (Continued)

| Member Label | Direction | Start Magnitude(lb/ft F) | End Magnitude(lb/ft F psf) | Start Location(in %) | End Location(in %) | |
|--------------|-----------|--------------------------|----------------------------|----------------------|--------------------|---|
| 20 | M32 | X | -1.7 | -1.7 | 0 | 0 |
| 21 | M33 | X | -1.7 | -1.7 | 0 | 0 |
| 22 | M43 | X | -1.7 | -1.7 | 0 | 0 |
| 23 | M44 | X | -1.7 | -1.7 | 0 | 0 |
| 24 | M45 | X | -1.7 | -1.7 | 0 | 0 |
| 25 | M46 | X | -1.7 | -1.7 | 0 | 0 |
| 26 | M47 | X | -1.7 | -1.7 | 0 | 0 |
| 27 | M48 | X | -1.7 | -1.7 | 0 | 0 |
| 28 | M49 | X | -1.7 | -1.7 | 0 | 0 |
| 29 | M50 | X | -2 | -2 | 0 | 0 |
| 30 | M51 | X | -2 | -2 | 0 | 0 |
| 31 | M52 | X | -1.7 | -1.7 | 0 | 0 |
| 32 | M53 | X | -1.7 | -1.7 | 0 | 0 |
| 33 | M54 | X | -1.7 | -1.7 | 0 | 0 |
| 34 | M64 | X | -1.7 | -1.7 | 0 | 0 |
| 35 | M65 | X | -1.7 | -1.7 | 0 | 0 |
| 36 | M66 | X | -1.7 | -1.7 | 0 | 0 |
| 37 | M67 | X | -1.7 | -1.7 | 0 | 0 |
| 38 | M68 | X | -1.7 | -1.7 | 0 | 0 |
| 39 | M69 | X | -1.7 | -1.7 | 0 | 0 |
| 40 | M70 | X | -1.7 | -1.7 | 0 | 0 |
| 41 | M71 | X | -1.7 | -1.7 | 0 | 0 |
| 42 | M72 | X | -1.7 | -1.7 | 0 | 0 |
| 43 | M73 | X | -1.7 | -1.7 | 0 | 0 |
| 44 | M74 | X | -1.7 | -1.7 | 0 | 0 |
| 45 | M75 | X | -1.7 | -1.7 | 0 | 0 |
| 46 | M76 | X | -1.7 | -1.7 | 0 | 0 |
| 47 | M89 | X | -2.8 | -2.8 | 0 | 0 |
| 48 | M90 | X | -2.8 | -2.8 | 0 | 0 |
| 49 | M91 | X | -3.4 | -3.4 | 0 | 0 |
| 50 | M92 | X | -2.8 | -2.8 | 0 | 0 |
| 51 | M93 | X | -2.8 | -2.8 | 0 | 0 |
| 52 | M94 | X | -3.4 | -3.4 | 0 | 0 |
| 53 | M95 | X | -2.8 | -2.8 | 0 | 0 |
| 54 | M96 | X | -2.8 | -2.8 | 0 | 0 |
| 55 | M97 | X | -3.4 | -3.4 | 0 | 0 |
| 56 | M1 | Z | 2.9 | 2.9 | 0 | 0 |
| 57 | M2 | Z | 3.4 | 3.4 | 0 | 0 |
| 58 | M3 | Z | 3.4 | 3.4 | 0 | 0 |
| 59 | M4 | Z | 2.9 | 2.9 | 0 | 0 |
| 60 | M5 | Z | 2.9 | 2.9 | 0 | 0 |
| 61 | M6 | Z | 2.9 | 2.9 | 0 | 0 |
| 62 | M19 | Z | 2.9 | 2.9 | 0 | 0 |
| 63 | M20 | Z | 2.9 | 2.9 | 0 | 0 |
| 64 | M21 | Z | 2.9 | 2.9 | 0 | 0 |
| 65 | M22 | Z | 2.9 | 2.9 | 0 | 0 |
| 66 | M23 | Z | 2.9 | 2.9 | 0 | 0 |
| 67 | M24 | Z | 2.9 | 2.9 | 0 | 0 |
| 68 | M25 | Z | 2.9 | 2.9 | 0 | 0 |
| 69 | M26 | Z | 2.9 | 2.9 | 0 | 0 |
| 70 | M27 | Z | 2.9 | 2.9 | 0 | 0 |
| 71 | M28 | Z | 2.9 | 2.9 | 0 | 0 |
| 72 | M29 | Z | 3.4 | 3.4 | 0 | 0 |
| 73 | M30 | Z | 3.4 | 3.4 | 0 | 0 |
| 74 | M31 | Z | 2.9 | 2.9 | 0 | 0 |
| 75 | M32 | Z | 2.9 | 2.9 | 0 | 0 |
| 76 | M33 | Z | 2.9 | 2.9 | 0 | 0 |



Company : Infinigy Engineering, LLC
 Designer : DVA
 Job Number : 1009-Z0003-B
 Model Name : MRCTB046850

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Member Distributed Loads (BLC 12 : Wind + Ice (60 deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft.F] | End Magnitude[lb/ft.F,psf] | Start Location[in.%] | End Location[in.%] |
|-----|--------------|-----------|--------------------------|----------------------------|----------------------|--------------------|
| 77 | M43 | Z | 2.9 | 2.9 | 0 | 0 |
| 78 | M44 | Z | 2.9 | 2.9 | 0 | 0 |
| 79 | M45 | Z | 2.9 | 2.9 | 0 | 0 |
| 80 | M46 | Z | 2.9 | 2.9 | 0 | 0 |
| 81 | M47 | Z | 2.9 | 2.9 | 0 | 0 |
| 82 | M48 | Z | 2.9 | 2.9 | 0 | 0 |
| 83 | M49 | Z | 2.9 | 2.9 | 0 | 0 |
| 84 | M50 | Z | 3.4 | 3.4 | 0 | 0 |
| 85 | M51 | Z | 3.4 | 3.4 | 0 | 0 |
| 86 | M52 | Z | 2.9 | 2.9 | 0 | 0 |
| 87 | M53 | Z | 2.9 | 2.9 | 0 | 0 |
| 88 | M54 | Z | 2.9 | 2.9 | 0 | 0 |
| 89 | M64 | Z | 2.9 | 2.9 | 0 | 0 |
| 90 | M65 | Z | 2.9 | 2.9 | 0 | 0 |
| 91 | M66 | Z | 2.9 | 2.9 | 0 | 0 |
| 92 | M67 | Z | 2.9 | 2.9 | 0 | 0 |
| 93 | M68 | Z | 2.9 | 2.9 | 0 | 0 |
| 94 | M69 | Z | 2.9 | 2.9 | 0 | 0 |
| 95 | M70 | Z | 2.9 | 2.9 | 0 | 0 |
| 96 | M71 | Z | 2.9 | 2.9 | 0 | 0 |
| 97 | M72 | Z | 2.9 | 2.9 | 0 | 0 |
| 98 | M73 | Z | 2.9 | 2.9 | 0 | 0 |
| 99 | M74 | Z | 2.9 | 2.9 | 0 | 0 |
| 100 | M75 | Z | 2.9 | 2.9 | 0 | 0 |
| 101 | M76 | Z | 2.9 | 2.9 | 0 | 0 |
| 102 | M89 | Z | 4.8 | 4.8 | 0 | 0 |
| 103 | M90 | Z | 4.8 | 4.8 | 0 | 0 |
| 104 | M91 | Z | 5.9 | 5.9 | 0 | 0 |
| 105 | M92 | Z | 4.8 | 4.8 | 0 | 0 |
| 106 | M93 | Z | 4.8 | 4.8 | 0 | 0 |
| 107 | M94 | Z | 5.9 | 5.9 | 0 | 0 |
| 108 | M95 | Z | 4.8 | 4.8 | 0 | 0 |
| 109 | M96 | Z | 4.8 | 4.8 | 0 | 0 |
| 110 | M97 | Z | 5.9 | 5.9 | 0 | 0 |

Member Distributed Loads (BLC 13 : Wind + Ice (120 deg))

| | Member Label | Direction | Start Magnitude[lb/ft.F] | End Magnitude[lb/ft.F,psf] | Start Location[in.%] | End Location[in.%] |
|----|--------------|-----------|--------------------------|----------------------------|----------------------|--------------------|
| 1 | M1 | X | 1.7 | 1.7 | 0 | 0 |
| 2 | M2 | X | 2 | 2 | 0 | 0 |
| 3 | M3 | X | 2 | 2 | 0 | 0 |
| 4 | M4 | X | 1.7 | 1.7 | 0 | 0 |
| 5 | M5 | X | 1.7 | 1.7 | 0 | 0 |
| 6 | M6 | X | 1.7 | 1.7 | 0 | 0 |
| 7 | M19 | X | 1.7 | 1.7 | 0 | 0 |
| 8 | M20 | X | 1.7 | 1.7 | 0 | 0 |
| 9 | M21 | X | 1.7 | 1.7 | 0 | 0 |
| 10 | M22 | X | 1.7 | 1.7 | 0 | 0 |
| 11 | M23 | X | 1.7 | 1.7 | 0 | 0 |
| 12 | M24 | X | 1.7 | 1.7 | 0 | 0 |
| 13 | M25 | X | 1.7 | 1.7 | 0 | 0 |
| 14 | M26 | X | 1.7 | 1.7 | 0 | 0 |
| 15 | M27 | X | 1.7 | 1.7 | 0 | 0 |
| 16 | M28 | X | 1.7 | 1.7 | 0 | 0 |
| 17 | M29 | X | 2 | 2 | 0 | 0 |
| 18 | M30 | X | 2 | 2 | 0 | 0 |
| 19 | M31 | X | 1.7 | 1.7 | 0 | 0 |



Company : Infinigy Engineering, LLC
 Designer : DVA
 Job Number : 1009-Z0003-B
 Model Name : MRCTB046850

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Member Distributed Loads (BLC 13 : Wind + Ice (120 deg)) (Continued)

| Member Label | Direction | Start Magnitude(lb/ft F) | End Magnitude(lb/ft F psf) | Start Location(in %) | End Location(in %) | |
|--------------|-----------|--------------------------|----------------------------|----------------------|--------------------|---|
| 20 | M32 | X | 1.7 | 1.7 | 0 | 0 |
| 21 | M33 | X | 1.7 | 1.7 | 0 | 0 |
| 22 | M43 | X | 1.7 | 1.7 | 0 | 0 |
| 23 | M44 | X | 1.7 | 1.7 | 0 | 0 |
| 24 | M45 | X | 1.7 | 1.7 | 0 | 0 |
| 25 | M46 | X | 1.7 | 1.7 | 0 | 0 |
| 26 | M47 | X | 1.7 | 1.7 | 0 | 0 |
| 27 | M48 | X | 1.7 | 1.7 | 0 | 0 |
| 28 | M49 | X | 1.7 | 1.7 | 0 | 0 |
| 29 | M50 | X | 2 | 2 | 0 | 0 |
| 30 | M51 | X | 2 | 2 | 0 | 0 |
| 31 | M52 | X | 1.7 | 1.7 | 0 | 0 |
| 32 | M53 | X | 1.7 | 1.7 | 0 | 0 |
| 33 | M54 | X | 1.7 | 1.7 | 0 | 0 |
| 34 | M64 | X | 1.7 | 1.7 | 0 | 0 |
| 35 | M65 | X | 1.7 | 1.7 | 0 | 0 |
| 36 | M66 | X | 1.7 | 1.7 | 0 | 0 |
| 37 | M67 | X | 1.7 | 1.7 | 0 | 0 |
| 38 | M68 | X | 1.7 | 1.7 | 0 | 0 |
| 39 | M69 | X | 1.7 | 1.7 | 0 | 0 |
| 40 | M70 | X | 1.7 | 1.7 | 0 | 0 |
| 41 | M71 | X | 1.7 | 1.7 | 0 | 0 |
| 42 | M72 | X | 1.7 | 1.7 | 0 | 0 |
| 43 | M73 | X | 1.7 | 1.7 | 0 | 0 |
| 44 | M74 | X | 1.7 | 1.7 | 0 | 0 |
| 45 | M75 | X | 1.7 | 1.7 | 0 | 0 |
| 46 | M76 | X | 1.7 | 1.7 | 0 | 0 |
| 47 | M89 | X | 2.8 | 2.8 | 0 | 0 |
| 48 | M90 | X | 2.8 | 2.8 | 0 | 0 |
| 49 | M91 | X | 3.4 | 3.4 | 0 | 0 |
| 50 | M92 | X | 2.8 | 2.8 | 0 | 0 |
| 51 | M93 | X | 2.8 | 2.8 | 0 | 0 |
| 52 | M94 | X | 3.4 | 3.4 | 0 | 0 |
| 53 | M95 | X | 2.8 | 2.8 | 0 | 0 |
| 54 | M96 | X | 2.8 | 2.8 | 0 | 0 |
| 55 | M97 | X | 3.4 | 3.4 | 0 | 0 |
| 56 | M1 | Z | 2.9 | 2.9 | 0 | 0 |
| 57 | M2 | Z | 3.4 | 3.4 | 0 | 0 |
| 58 | M3 | Z | 3.4 | 3.4 | 0 | 0 |
| 59 | M4 | Z | 2.9 | 2.9 | 0 | 0 |
| 60 | M5 | Z | 2.9 | 2.9 | 0 | 0 |
| 61 | M6 | Z | 2.9 | 2.9 | 0 | 0 |
| 62 | M19 | Z | 2.9 | 2.9 | 0 | 0 |
| 63 | M20 | Z | 2.9 | 2.9 | 0 | 0 |
| 64 | M21 | Z | 2.9 | 2.9 | 0 | 0 |
| 65 | M22 | Z | 2.9 | 2.9 | 0 | 0 |
| 66 | M23 | Z | 2.9 | 2.9 | 0 | 0 |
| 67 | M24 | Z | 2.9 | 2.9 | 0 | 0 |
| 68 | M25 | Z | 2.9 | 2.9 | 0 | 0 |
| 69 | M26 | Z | 2.9 | 2.9 | 0 | 0 |
| 70 | M27 | Z | 2.9 | 2.9 | 0 | 0 |
| 71 | M28 | Z | 2.9 | 2.9 | 0 | 0 |
| 72 | M29 | Z | 3.4 | 3.4 | 0 | 0 |
| 73 | M30 | Z | 3.4 | 3.4 | 0 | 0 |
| 74 | M31 | Z | 2.9 | 2.9 | 0 | 0 |
| 75 | M32 | Z | 2.9 | 2.9 | 0 | 0 |
| 76 | M33 | Z | 2.9 | 2.9 | 0 | 0 |



Member Distributed Loads (BLC 13 : Wind + Ice (120 deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft.F] | End Magnitude[lb/ft.F,psf] | Start Location[in.%] | End Location[in.%] |
|-----|--------------|-----------|--------------------------|----------------------------|----------------------|--------------------|
| 77 | M43 | Z | 2.9 | 2.9 | 0 | 0 |
| 78 | M44 | Z | 2.9 | 2.9 | 0 | 0 |
| 79 | M45 | Z | 2.9 | 2.9 | 0 | 0 |
| 80 | M46 | Z | 2.9 | 2.9 | 0 | 0 |
| 81 | M47 | Z | 2.9 | 2.9 | 0 | 0 |
| 82 | M48 | Z | 2.9 | 2.9 | 0 | 0 |
| 83 | M49 | Z | 2.9 | 2.9 | 0 | 0 |
| 84 | M50 | Z | 3.4 | 3.4 | 0 | 0 |
| 85 | M51 | Z | 3.4 | 3.4 | 0 | 0 |
| 86 | M52 | Z | 2.9 | 2.9 | 0 | 0 |
| 87 | M53 | Z | 2.9 | 2.9 | 0 | 0 |
| 88 | M54 | Z | 2.9 | 2.9 | 0 | 0 |
| 89 | M64 | Z | 2.9 | 2.9 | 0 | 0 |
| 90 | M65 | Z | 2.9 | 2.9 | 0 | 0 |
| 91 | M66 | Z | 2.9 | 2.9 | 0 | 0 |
| 92 | M67 | Z | 2.9 | 2.9 | 0 | 0 |
| 93 | M68 | Z | 2.9 | 2.9 | 0 | 0 |
| 94 | M69 | Z | 2.9 | 2.9 | 0 | 0 |
| 95 | M70 | Z | 2.9 | 2.9 | 0 | 0 |
| 96 | M71 | Z | 2.9 | 2.9 | 0 | 0 |
| 97 | M72 | Z | 2.9 | 2.9 | 0 | 0 |
| 98 | M73 | Z | 2.9 | 2.9 | 0 | 0 |
| 99 | M74 | Z | 2.9 | 2.9 | 0 | 0 |
| 100 | M75 | Z | 2.9 | 2.9 | 0 | 0 |
| 101 | M76 | Z | 2.9 | 2.9 | 0 | 0 |
| 102 | M89 | Z | 4.8 | 4.8 | 0 | 0 |
| 103 | M90 | Z | 4.8 | 4.8 | 0 | 0 |
| 104 | M91 | Z | 5.9 | 5.9 | 0 | 0 |
| 105 | M92 | Z | 4.8 | 4.8 | 0 | 0 |
| 106 | M93 | Z | 4.8 | 4.8 | 0 | 0 |
| 107 | M94 | Z | 5.9 | 5.9 | 0 | 0 |
| 108 | M95 | Z | 4.8 | 4.8 | 0 | 0 |
| 109 | M96 | Z | 4.8 | 4.8 | 0 | 0 |
| 110 | M97 | Z | 5.9 | 5.9 | 0 | 0 |

Member Distributed Loads (BLC 14 : Wind + Ice (150 deg))

| | Member Label | Direction | Start Magnitude[lb/ft.F] | End Magnitude[lb/ft.F,psf] | Start Location[in.%] | End Location[in.%] |
|----|--------------|-----------|--------------------------|----------------------------|----------------------|--------------------|
| 1 | M1 | X | 2.9 | 2.9 | 0 | 0 |
| 2 | M2 | X | 3.4 | 3.4 | 0 | 0 |
| 3 | M3 | X | 3.4 | 3.4 | 0 | 0 |
| 4 | M4 | X | 2.9 | 2.9 | 0 | 0 |
| 5 | M5 | X | 2.9 | 2.9 | 0 | 0 |
| 6 | M6 | X | 2.9 | 2.9 | 0 | 0 |
| 7 | M19 | X | 2.9 | 2.9 | 0 | 0 |
| 8 | M20 | X | 2.9 | 2.9 | 0 | 0 |
| 9 | M21 | X | 2.9 | 2.9 | 0 | 0 |
| 10 | M22 | X | 2.9 | 2.9 | 0 | 0 |
| 11 | M23 | X | 2.9 | 2.9 | 0 | 0 |
| 12 | M24 | X | 2.9 | 2.9 | 0 | 0 |
| 13 | M25 | X | 2.9 | 2.9 | 0 | 0 |
| 14 | M26 | X | 2.9 | 2.9 | 0 | 0 |
| 15 | M27 | X | 2.9 | 2.9 | 0 | 0 |
| 16 | M28 | X | 2.9 | 2.9 | 0 | 0 |
| 17 | M29 | X | 3.4 | 3.4 | 0 | 0 |
| 18 | M30 | X | 3.4 | 3.4 | 0 | 0 |
| 19 | M31 | X | 2.9 | 2.9 | 0 | 0 |



Company : Infinigy Engineering, LLC
 Designer : DVA
 Job Number : 1009-Z0003-B
 Model Name : MRCTB046850

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Member Distributed Loads (BLC 14 : Wind + Ice (150 deg)) (Continued)

| Member Label | Direction | Start Magnitude(lb/ft F) | End Magnitude(lb/ft F psf) | Start Location(in %) | End Location(in %) | |
|--------------|-----------|--------------------------|----------------------------|----------------------|--------------------|---|
| 20 | M32 | X | 2.9 | 2.9 | 0 | 0 |
| 21 | M33 | X | 2.9 | 2.9 | 0 | 0 |
| 22 | M43 | X | 2.9 | 2.9 | 0 | 0 |
| 23 | M44 | X | 2.9 | 2.9 | 0 | 0 |
| 24 | M45 | X | 2.9 | 2.9 | 0 | 0 |
| 25 | M46 | X | 2.9 | 2.9 | 0 | 0 |
| 26 | M47 | X | 2.9 | 2.9 | 0 | 0 |
| 27 | M48 | X | 2.9 | 2.9 | 0 | 0 |
| 28 | M49 | X | 2.9 | 2.9 | 0 | 0 |
| 29 | M50 | X | 3.4 | 3.4 | 0 | 0 |
| 30 | M51 | X | 3.4 | 3.4 | 0 | 0 |
| 31 | M52 | X | 2.9 | 2.9 | 0 | 0 |
| 32 | M53 | X | 2.9 | 2.9 | 0 | 0 |
| 33 | M54 | X | 2.9 | 2.9 | 0 | 0 |
| 34 | M64 | X | 2.9 | 2.9 | 0 | 0 |
| 35 | M65 | X | 2.9 | 2.9 | 0 | 0 |
| 36 | M66 | X | 2.9 | 2.9 | 0 | 0 |
| 37 | M67 | X | 2.9 | 2.9 | 0 | 0 |
| 38 | M68 | X | 2.9 | 2.9 | 0 | 0 |
| 39 | M69 | X | 2.9 | 2.9 | 0 | 0 |
| 40 | M70 | X | 2.9 | 2.9 | 0 | 0 |
| 41 | M71 | X | 2.9 | 2.9 | 0 | 0 |
| 42 | M72 | X | 2.9 | 2.9 | 0 | 0 |
| 43 | M73 | X | 2.9 | 2.9 | 0 | 0 |
| 44 | M74 | X | 2.9 | 2.9 | 0 | 0 |
| 45 | M75 | X | 2.9 | 2.9 | 0 | 0 |
| 46 | M76 | X | 2.9 | 2.9 | 0 | 0 |
| 47 | M89 | X | 4.8 | 4.8 | 0 | 0 |
| 48 | M90 | X | 4.8 | 4.8 | 0 | 0 |
| 49 | M91 | X | 5.9 | 5.9 | 0 | 0 |
| 50 | M92 | X | 4.8 | 4.8 | 0 | 0 |
| 51 | M93 | X | 4.8 | 4.8 | 0 | 0 |
| 52 | M94 | X | 5.9 | 5.9 | 0 | 0 |
| 53 | M95 | X | 4.8 | 4.8 | 0 | 0 |
| 54 | M96 | X | 4.8 | 4.8 | 0 | 0 |
| 55 | M97 | X | 5.9 | 5.9 | 0 | 0 |
| 56 | M1 | Z | 1.7 | 1.7 | 0 | 0 |
| 57 | M2 | Z | 2 | 2 | 0 | 0 |
| 58 | M3 | Z | 2 | 2 | 0 | 0 |
| 59 | M4 | Z | 1.7 | 1.7 | 0 | 0 |
| 60 | M5 | Z | 1.7 | 1.7 | 0 | 0 |
| 61 | M6 | Z | 1.7 | 1.7 | 0 | 0 |
| 62 | M19 | Z | 1.7 | 1.7 | 0 | 0 |
| 63 | M20 | Z | 1.7 | 1.7 | 0 | 0 |
| 64 | M21 | Z | 1.7 | 1.7 | 0 | 0 |
| 65 | M22 | Z | 1.7 | 1.7 | 0 | 0 |
| 66 | M23 | Z | 1.7 | 1.7 | 0 | 0 |
| 67 | M24 | Z | 1.7 | 1.7 | 0 | 0 |
| 68 | M25 | Z | 1.7 | 1.7 | 0 | 0 |
| 69 | M26 | Z | 1.7 | 1.7 | 0 | 0 |
| 70 | M27 | Z | 1.7 | 1.7 | 0 | 0 |
| 71 | M28 | Z | 1.7 | 1.7 | 0 | 0 |
| 72 | M29 | Z | 2 | 2 | 0 | 0 |
| 73 | M30 | Z | 2 | 2 | 0 | 0 |
| 74 | M31 | Z | 1.7 | 1.7 | 0 | 0 |
| 75 | M32 | Z | 1.7 | 1.7 | 0 | 0 |
| 76 | M33 | Z | 1.7 | 1.7 | 0 | 0 |



Company : Infinigy Engineering, LLC
 Designer : DVA
 Job Number : 1009-Z0003-B
 Model Name : MRCTB046850

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Member Distributed Loads (BLC 14 : Wind + Ice (150 deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft.F] | End Magnitude[lb/ft.F.psf] | Start Location[in.%] | End Location[in.%] |
|-----|--------------|-----------|--------------------------|----------------------------|----------------------|--------------------|
| 77 | M43 | Z | 1.7 | 1.7 | 0 | 0 |
| 78 | M44 | Z | 1.7 | 1.7 | 0 | 0 |
| 79 | M45 | Z | 1.7 | 1.7 | 0 | 0 |
| 80 | M46 | Z | 1.7 | 1.7 | 0 | 0 |
| 81 | M47 | Z | 1.7 | 1.7 | 0 | 0 |
| 82 | M48 | Z | 1.7 | 1.7 | 0 | 0 |
| 83 | M49 | Z | 1.7 | 1.7 | 0 | 0 |
| 84 | M50 | Z | 2 | 2 | 0 | 0 |
| 85 | M51 | Z | 2 | 2 | 0 | 0 |
| 86 | M52 | Z | 1.7 | 1.7 | 0 | 0 |
| 87 | M53 | Z | 1.7 | 1.7 | 0 | 0 |
| 88 | M54 | Z | 1.7 | 1.7 | 0 | 0 |
| 89 | M64 | Z | 1.7 | 1.7 | 0 | 0 |
| 90 | M65 | Z | 1.7 | 1.7 | 0 | 0 |
| 91 | M66 | Z | 1.7 | 1.7 | 0 | 0 |
| 92 | M67 | Z | 1.7 | 1.7 | 0 | 0 |
| 93 | M68 | Z | 1.7 | 1.7 | 0 | 0 |
| 94 | M69 | Z | 1.7 | 1.7 | 0 | 0 |
| 95 | M70 | Z | 1.7 | 1.7 | 0 | 0 |
| 96 | M71 | Z | 1.7 | 1.7 | 0 | 0 |
| 97 | M72 | Z | 1.7 | 1.7 | 0 | 0 |
| 98 | M73 | Z | 1.7 | 1.7 | 0 | 0 |
| 99 | M74 | Z | 1.7 | 1.7 | 0 | 0 |
| 100 | M75 | Z | 1.7 | 1.7 | 0 | 0 |
| 101 | M76 | Z | 1.7 | 1.7 | 0 | 0 |
| 102 | M89 | Z | 2.8 | 2.8 | 0 | 0 |
| 103 | M90 | Z | 2.8 | 2.8 | 0 | 0 |
| 104 | M91 | Z | 3.4 | 3.4 | 0 | 0 |
| 105 | M92 | Z | 2.8 | 2.8 | 0 | 0 |
| 106 | M93 | Z | 2.8 | 2.8 | 0 | 0 |
| 107 | M94 | Z | 3.4 | 3.4 | 0 | 0 |
| 108 | M95 | Z | 2.8 | 2.8 | 0 | 0 |
| 109 | M96 | Z | 2.8 | 2.8 | 0 | 0 |
| 110 | M97 | Z | 3.4 | 3.4 | 0 | 0 |

Member Distributed Loads (BLC 18 : Wind + Live Lm (0 deg))

| | Member Label | Direction | Start Magnitude[lb/ft.F] | End Magnitude[lb/ft.F.psf] | Start Location[in.%] | End Location[in.%] |
|----|--------------|-----------|--------------------------|----------------------------|----------------------|--------------------|
| 1 | M1 | X | -4 | -4 | 0 | 0 |
| 2 | M2 | X | -6 | -6 | 0 | 0 |
| 3 | M3 | X | -6 | -6 | 0 | 0 |
| 4 | M4 | X | -4 | -4 | 0 | 0 |
| 5 | M5 | X | -4 | -4 | 0 | 0 |
| 6 | M6 | X | -4 | -4 | 0 | 0 |
| 7 | M19 | X | -4 | -4 | 0 | 0 |
| 8 | M20 | X | -4 | -4 | 0 | 0 |
| 9 | M21 | X | -4 | -4 | 0 | 0 |
| 10 | M22 | X | -4 | -4 | 0 | 0 |
| 11 | M23 | X | -4 | -4 | 0 | 0 |
| 12 | M24 | X | -4 | -4 | 0 | 0 |
| 13 | M25 | X | -4 | -4 | 0 | 0 |
| 14 | M26 | X | -4 | -4 | 0 | 0 |
| 15 | M27 | X | -4 | -4 | 0 | 0 |
| 16 | M28 | X | -4 | -4 | 0 | 0 |
| 17 | M29 | X | -6 | -6 | 0 | 0 |
| 18 | M30 | X | -6 | -6 | 0 | 0 |
| 19 | M31 | X | -4 | -4 | 0 | 0 |



Member Distributed Loads (BLC 18 : Wind + Live Lm (0 deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft.F] | End Magnitude[lb/ft.F,psf] | Start Location[in.%] | End Location[in.%] |
|----|--------------|-----------|--------------------------|----------------------------|----------------------|--------------------|
| 20 | M32 | X | -4 | -4 | 0 | 0 |
| 21 | M33 | X | -4 | -4 | 0 | 0 |
| 22 | M43 | X | -4 | -4 | 0 | 0 |
| 23 | M44 | X | -4 | -4 | 0 | 0 |
| 24 | M45 | X | -4 | -4 | 0 | 0 |
| 25 | M46 | X | -4 | -4 | 0 | 0 |
| 26 | M47 | X | -4 | -4 | 0 | 0 |
| 27 | M48 | X | -4 | -4 | 0 | 0 |
| 28 | M49 | X | -4 | -4 | 0 | 0 |
| 29 | M50 | X | -6 | -6 | 0 | 0 |
| 30 | M51 | X | -6 | -6 | 0 | 0 |
| 31 | M52 | X | -4 | -4 | 0 | 0 |
| 32 | M53 | X | -4 | -4 | 0 | 0 |
| 33 | M54 | X | -4 | -4 | 0 | 0 |
| 34 | M64 | X | -4 | -4 | 0 | 0 |
| 35 | M65 | X | -4 | -4 | 0 | 0 |
| 36 | M66 | X | -4 | -4 | 0 | 0 |
| 37 | M67 | X | -4 | -4 | 0 | 0 |
| 38 | M68 | X | -4 | -4 | 0 | 0 |
| 39 | M69 | X | -4 | -4 | 0 | 0 |
| 40 | M70 | X | -4 | -4 | 0 | 0 |
| 41 | M71 | X | -4 | -4 | 0 | 0 |
| 42 | M72 | X | -4 | -4 | 0 | 0 |
| 43 | M73 | X | -4 | -4 | 0 | 0 |
| 44 | M74 | X | -4 | -4 | 0 | 0 |
| 45 | M75 | X | -4 | -4 | 0 | 0 |
| 46 | M76 | X | -4 | -4 | 0 | 0 |
| 47 | M91 | X | -1.6 | -1.6 | 0 | 0 |
| 48 | M92 | X | -1.2 | -1.2 | 0 | 0 |
| 49 | M93 | X | -1.2 | -1.2 | 0 | 0 |
| 50 | M94 | X | -1.6 | -1.6 | 0 | 0 |
| 51 | M95 | X | -1.2 | -1.2 | 0 | 0 |
| 52 | M96 | X | -1.2 | -1.2 | 0 | 0 |
| 53 | M97 | X | -1.6 | -1.6 | 0 | 0 |

Member Distributed Loads (BLC 19 : Wind + Live Lm (90 deg))

| | Member Label | Direction | Start Magnitude[lb/ft.F] | End Magnitude[lb/ft.F,psf] | Start Location[in.%] | End Location[in.%] |
|----|--------------|-----------|--------------------------|----------------------------|----------------------|--------------------|
| 1 | M11 | Z | 6 | 6 | 0 | 0 |
| 2 | M14 | Z | 6 | 6 | 0 | 0 |
| 3 | M15 | Z | 6 | 6 | 0 | 0 |
| 4 | M18 | Z | 6 | 6 | 0 | 0 |
| 5 | M19 | Z | 4 | 4 | 0 | 0 |
| 6 | M20 | Z | 4 | 4 | 0 | 0 |
| 7 | M24 | Z | 4 | 4 | 0 | 0 |
| 8 | M25 | Z | 4 | 4 | 0 | 0 |
| 9 | M26 | Z | 4 | 4 | 0 | 0 |
| 10 | M27 | Z | 4 | 4 | 0 | 0 |
| 11 | M28 | Z | 4 | 4 | 0 | 0 |
| 12 | M29 | Z | 6 | 6 | 0 | 0 |
| 13 | M30 | Z | 6 | 6 | 0 | 0 |
| 14 | M31 | Z | 4 | 4 | 0 | 0 |
| 15 | M32 | Z | 4 | 4 | 0 | 0 |
| 16 | M33 | Z | 4 | 4 | 0 | 0 |
| 17 | M38 | Z | 6 | 6 | 0 | 0 |
| 18 | M41 | Z | 6 | 6 | 0 | 0 |
| 19 | M42 | Z | 6 | 6 | 0 | 0 |



Member Distributed Loads (BLC 19 : Wind + Live Lm (90 deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft.F] | End Magnitude[lb/ft.F.psf] | Start Location[in.%] | End Location[in.%] |
|----|--------------|-----------|--------------------------|----------------------------|----------------------|--------------------|
| 20 | M43 | Z | 4 | 4 | 0 | 0 |
| 21 | M44 | Z | 4 | 4 | 0 | 0 |
| 22 | M45 | Z | 4 | 4 | 0 | 0 |
| 23 | M46 | Z | 4 | 4 | 0 | 0 |
| 24 | M47 | Z | 4 | 4 | 0 | 0 |
| 25 | M48 | Z | 4 | 4 | 0 | 0 |
| 26 | M49 | Z | 4 | 4 | 0 | 0 |
| 27 | M50 | Z | 6 | 6 | 0 | 0 |
| 28 | M51 | Z | 6 | 6 | 0 | 0 |
| 29 | M52 | Z | 4 | 4 | 0 | 0 |
| 30 | M53 | Z | 4 | 4 | 0 | 0 |
| 31 | M54 | Z | 4 | 4 | 0 | 0 |
| 32 | M59 | Z | 6 | 6 | 0 | 0 |
| 33 | M62 | Z | 6 | 6 | 0 | 0 |
| 34 | M63 | Z | 6 | 6 | 0 | 0 |
| 35 | M64 | Z | 4 | 4 | 0 | 0 |
| 36 | M65 | Z | 4 | 4 | 0 | 0 |
| 37 | M66 | Z | 4 | 4 | 0 | 0 |
| 38 | M67 | Z | 4 | 4 | 0 | 0 |
| 39 | M68 | Z | 4 | 4 | 0 | 0 |
| 40 | M69 | Z | 4 | 4 | 0 | 0 |
| 41 | M70 | Z | 4 | 4 | 0 | 0 |
| 42 | M72 | Z | 4 | 4 | 0 | 0 |
| 43 | M73 | Z | 4 | 4 | 0 | 0 |
| 44 | M74 | Z | 4 | 4 | 0 | 0 |
| 45 | M75 | Z | 4 | 4 | 0 | 0 |
| 46 | M76 | Z | 4 | 4 | 0 | 0 |
| 47 | M89 | Z | 1.2 | 1.2 | 0 | 0 |
| 48 | M90 | Z | 1.2 | 1.2 | 0 | 0 |
| 49 | M91 | Z | 1.6 | 1.6 | 0 | 0 |
| 50 | M92 | Z | 1.2 | 1.2 | 0 | 0 |
| 51 | M93 | Z | 1.2 | 1.2 | 0 | 0 |
| 52 | M94 | Z | 1.6 | 1.6 | 0 | 0 |
| 53 | M95 | Z | 1.2 | 1.2 | 0 | 0 |
| 54 | M96 | Z | 1.2 | 1.2 | 0 | 0 |
| 55 | M97 | Z | 1.6 | 1.6 | 0 | 0 |
| 56 | M100 | Z | 6 | 6 | 0 | 0 |
| 57 | M103 | Z | 6 | 6 | 0 | 0 |

Member Distributed Loads (BLC 20 : Wind + Live Lm (30 deg))

| | Member Label | Direction | Start Magnitude[lb/ft.F] | End Magnitude[lb/ft.F.psf] | Start Location[in.%] | End Location[in.%] |
|----|--------------|-----------|--------------------------|----------------------------|----------------------|--------------------|
| 1 | M1 | X | -3 | -3 | 0 | 0 |
| 2 | M2 | X | -5 | -5 | 0 | 0 |
| 3 | M3 | X | -5 | -5 | 0 | 0 |
| 4 | M4 | X | -3 | -3 | 0 | 0 |
| 5 | M5 | X | -3 | -3 | 0 | 0 |
| 6 | M6 | X | -3 | -3 | 0 | 0 |
| 7 | M19 | X | -3 | -3 | 0 | 0 |
| 8 | M20 | X | -3 | -3 | 0 | 0 |
| 9 | M21 | X | -3 | -3 | 0 | 0 |
| 10 | M22 | X | -3 | -3 | 0 | 0 |
| 11 | M23 | X | -3 | -3 | 0 | 0 |
| 12 | M24 | X | -3 | -3 | 0 | 0 |
| 13 | M25 | X | -3 | -3 | 0 | 0 |
| 14 | M26 | X | -3 | -3 | 0 | 0 |
| 15 | M27 | X | -3 | -3 | 0 | 0 |



Company : Infinigy Engineering, LLC
 Designer : DVA
 Job Number : 1009-Z0003-B
 Model Name : MRCTB046850

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Member Distributed Loads (BLC 20 : Wind + Live Lm (30 deg)) (Continued)

| Member Label | Direction | Start Magnitude(lb/ft F | End Magnitude(lb/ft F psf) | Start Location(in %) | End Location(in %) | |
|--------------|-----------|-------------------------|----------------------------|----------------------|--------------------|---|
| 16 | M28 | X | -3 | -3 | 0 | 0 |
| 17 | M29 | X | -5 | -5 | 0 | 0 |
| 18 | M30 | X | -5 | -5 | 0 | 0 |
| 19 | M31 | X | -3 | -3 | 0 | 0 |
| 20 | M32 | X | -3 | -3 | 0 | 0 |
| 21 | M33 | X | -3 | -3 | 0 | 0 |
| 22 | M43 | X | -3 | -3 | 0 | 0 |
| 23 | M44 | X | -3 | -3 | 0 | 0 |
| 24 | M45 | X | -3 | -3 | 0 | 0 |
| 25 | M46 | X | -3 | -3 | 0 | 0 |
| 26 | M47 | X | -3 | -3 | 0 | 0 |
| 27 | M48 | X | -3 | -3 | 0 | 0 |
| 28 | M49 | X | -3 | -3 | 0 | 0 |
| 29 | M50 | X | -5 | -5 | 0 | 0 |
| 30 | M51 | X | -5 | -5 | 0 | 0 |
| 31 | M52 | X | -3 | -3 | 0 | 0 |
| 32 | M53 | X | -3 | -3 | 0 | 0 |
| 33 | M54 | X | -3 | -3 | 0 | 0 |
| 34 | M64 | X | -3 | -3 | 0 | 0 |
| 35 | M65 | X | -3 | -3 | 0 | 0 |
| 36 | M66 | X | -3 | -3 | 0 | 0 |
| 37 | M67 | X | -3 | -3 | 0 | 0 |
| 38 | M68 | X | -3 | -3 | 0 | 0 |
| 39 | M69 | X | -3 | -3 | 0 | 0 |
| 40 | M70 | X | -3 | -3 | 0 | 0 |
| 41 | M71 | X | -3 | -3 | 0 | 0 |
| 42 | M72 | X | -3 | -3 | 0 | 0 |
| 43 | M73 | X | -3 | -3 | 0 | 0 |
| 44 | M74 | X | -3 | -3 | 0 | 0 |
| 45 | M75 | X | -3 | -3 | 0 | 0 |
| 46 | M76 | X | -3 | -3 | 0 | 0 |
| 47 | M89 | X | -1 | -1 | 0 | 0 |
| 48 | M90 | X | -1 | -1 | 0 | 0 |
| 49 | M91 | X | -1.4 | -1.4 | 0 | 0 |
| 50 | M92 | X | -1 | -1 | 0 | 0 |
| 51 | M93 | X | -1 | -1 | 0 | 0 |
| 52 | M94 | X | -1.4 | -1.4 | 0 | 0 |
| 53 | M95 | X | -1 | -1 | 0 | 0 |
| 54 | M96 | X | -1 | -1 | 0 | 0 |
| 55 | M97 | X | -1.4 | -1.4 | 0 | 0 |
| 56 | M1 | Z | 2 | 2 | 0 | 0 |
| 57 | M2 | Z | 3 | 3 | 0 | 0 |
| 58 | M3 | Z | 3 | 3 | 0 | 0 |
| 59 | M4 | Z | 2 | 2 | 0 | 0 |
| 60 | M5 | Z | 2 | 2 | 0 | 0 |
| 61 | M6 | Z | 2 | 2 | 0 | 0 |
| 62 | M19 | Z | 2 | 2 | 0 | 0 |
| 63 | M20 | Z | 2 | 2 | 0 | 0 |
| 64 | M21 | Z | 2 | 2 | 0 | 0 |
| 65 | M22 | Z | 2 | 2 | 0 | 0 |
| 66 | M23 | Z | 2 | 2 | 0 | 0 |
| 67 | M24 | Z | 2 | 2 | 0 | 0 |
| 68 | M25 | Z | 2 | 2 | 0 | 0 |
| 69 | M26 | Z | 2 | 2 | 0 | 0 |
| 70 | M27 | Z | 2 | 2 | 0 | 0 |
| 71 | M28 | Z | 2 | 2 | 0 | 0 |
| 72 | M29 | Z | 3 | 3 | 0 | 0 |



Company : Infinigy Engineering, LLC
 Designer : DVA
 Job Number : 1009-Z0003-B
 Model Name : MRCTB046850

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Member Distributed Loads (BLC 20 : Wind + Live Lm (30 deg)) (Continued)

| Member Label | Direction | Start Magnitude[lb/ft.F] | End Magnitude[lb/ft.F.psf] | Start Location[in.%] | End Location[in.%] | |
|--------------|-----------|--------------------------|----------------------------|----------------------|--------------------|---|
| 73 | M30 | Z | 3 | 3 | 0 | 0 |
| 74 | M31 | Z | 2 | 2 | 0 | 0 |
| 75 | M32 | Z | 2 | 2 | 0 | 0 |
| 76 | M33 | Z | 2 | 2 | 0 | 0 |
| 77 | M43 | Z | 2 | 2 | 0 | 0 |
| 78 | M44 | Z | 2 | 2 | 0 | 0 |
| 79 | M45 | Z | 2 | 2 | 0 | 0 |
| 80 | M46 | Z | 2 | 2 | 0 | 0 |
| 81 | M47 | Z | 2 | 2 | 0 | 0 |
| 82 | M48 | Z | 2 | 2 | 0 | 0 |
| 83 | M49 | Z | 2 | 2 | 0 | 0 |
| 84 | M50 | Z | 3 | 3 | 0 | 0 |
| 85 | M51 | Z | 3 | 3 | 0 | 0 |
| 86 | M52 | Z | 2 | 2 | 0 | 0 |
| 87 | M53 | Z | 2 | 2 | 0 | 0 |
| 88 | M54 | Z | 2 | 2 | 0 | 0 |
| 89 | M64 | Z | 2 | 2 | 0 | 0 |
| 90 | M65 | Z | 2 | 2 | 0 | 0 |
| 91 | M66 | Z | 2 | 2 | 0 | 0 |
| 92 | M67 | Z | 2 | 2 | 0 | 0 |
| 93 | M68 | Z | 2 | 2 | 0 | 0 |
| 94 | M69 | Z | 2 | 2 | 0 | 0 |
| 95 | M70 | Z | 2 | 2 | 0 | 0 |
| 96 | M71 | Z | 2 | 2 | 0 | 0 |
| 97 | M72 | Z | 2 | 2 | 0 | 0 |
| 98 | M73 | Z | 2 | 2 | 0 | 0 |
| 99 | M74 | Z | 2 | 2 | 0 | 0 |
| 100 | M75 | Z | 2 | 2 | 0 | 0 |
| 101 | M76 | Z | 2 | 2 | 0 | 0 |
| 102 | M89 | Z | 6 | 6 | 0 | 0 |
| 103 | M90 | Z | 6 | 6 | 0 | 0 |
| 104 | M91 | Z | 8 | 8 | 0 | 0 |
| 105 | M92 | Z | 6 | 6 | 0 | 0 |
| 106 | M93 | Z | 6 | 6 | 0 | 0 |
| 107 | M94 | Z | 8 | 8 | 0 | 0 |
| 108 | M95 | Z | 6 | 6 | 0 | 0 |
| 109 | M96 | Z | 6 | 6 | 0 | 0 |
| 110 | M97 | Z | 8 | 8 | 0 | 0 |

Member Distributed Loads (BLC 21 : Wind + Live Lm (60 deg))

| Member Label | Direction | Start Magnitude[lb/ft.F] | End Magnitude[lb/ft.F.psf] | Start Location[in.%] | End Location[in.%] | |
|--------------|-----------|--------------------------|----------------------------|----------------------|--------------------|---|
| 1 | M1 | X | -2 | -2 | 0 | 0 |
| 2 | M2 | X | -3 | -3 | 0 | 0 |
| 3 | M3 | X | -3 | -3 | 0 | 0 |
| 4 | M4 | X | -2 | -2 | 0 | 0 |
| 5 | M5 | X | -2 | -2 | 0 | 0 |
| 6 | M6 | X | -2 | -2 | 0 | 0 |
| 7 | M19 | X | -2 | -2 | 0 | 0 |
| 8 | M20 | X | -2 | -2 | 0 | 0 |
| 9 | M21 | X | -2 | -2 | 0 | 0 |
| 10 | M22 | X | -2 | -2 | 0 | 0 |
| 11 | M23 | X | -2 | -2 | 0 | 0 |
| 12 | M24 | X | -2 | -2 | 0 | 0 |
| 13 | M25 | X | -2 | -2 | 0 | 0 |
| 14 | M26 | X | -2 | -2 | 0 | 0 |
| 15 | M27 | X | -2 | -2 | 0 | 0 |



Company : Infinigy Engineering, LLC
 Designer : DVA
 Job Number : 1009-Z0003-B
 Model Name : MRCTB046850

July 15, 2020
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Member Distributed Loads (BLC 21 : Wind + Live Lm (60 deg)) (Continued)

| Member Label | Direction | Start Magnitude(lb/ft F | End Magnitude(lb/ft F psf) | Start Location(in %) | End Location(in %) | |
|--------------|-----------|-------------------------|----------------------------|----------------------|--------------------|---|
| 16 | M28 | X | -2 | -2 | 0 | 0 |
| 17 | M29 | X | -3 | -3 | 0 | 0 |
| 18 | M30 | X | -3 | -3 | 0 | 0 |
| 19 | M31 | X | -2 | -2 | 0 | 0 |
| 20 | M32 | X | -2 | -2 | 0 | 0 |
| 21 | M33 | X | -2 | -2 | 0 | 0 |
| 22 | M43 | X | -2 | -2 | 0 | 0 |
| 23 | M44 | X | -2 | -2 | 0 | 0 |
| 24 | M45 | X | -2 | -2 | 0 | 0 |
| 25 | M46 | X | -2 | -2 | 0 | 0 |
| 26 | M47 | X | -2 | -2 | 0 | 0 |
| 27 | M48 | X | -2 | -2 | 0 | 0 |
| 28 | M49 | X | -2 | -2 | 0 | 0 |
| 29 | M50 | X | -3 | -3 | 0 | 0 |
| 30 | M51 | X | -3 | -3 | 0 | 0 |
| 31 | M52 | X | -2 | -2 | 0 | 0 |
| 32 | M53 | X | -2 | -2 | 0 | 0 |
| 33 | M54 | X | -2 | -2 | 0 | 0 |
| 34 | M64 | X | -2 | -2 | 0 | 0 |
| 35 | M65 | X | -2 | -2 | 0 | 0 |
| 36 | M66 | X | -2 | -2 | 0 | 0 |
| 37 | M67 | X | -2 | -2 | 0 | 0 |
| 38 | M68 | X | -2 | -2 | 0 | 0 |
| 39 | M69 | X | -2 | -2 | 0 | 0 |
| 40 | M70 | X | -2 | -2 | 0 | 0 |
| 41 | M71 | X | -2 | -2 | 0 | 0 |
| 42 | M72 | X | -2 | -2 | 0 | 0 |
| 43 | M73 | X | -2 | -2 | 0 | 0 |
| 44 | M74 | X | -2 | -2 | 0 | 0 |
| 45 | M75 | X | -2 | -2 | 0 | 0 |
| 46 | M76 | X | -2 | -2 | 0 | 0 |
| 47 | M89 | X | -6 | -6 | 0 | 0 |
| 48 | M90 | X | -6 | -6 | 0 | 0 |
| 49 | M91 | X | -8 | -8 | 0 | 0 |
| 50 | M92 | X | -6 | -6 | 0 | 0 |
| 51 | M93 | X | -6 | -6 | 0 | 0 |
| 52 | M94 | X | -8 | -8 | 0 | 0 |
| 53 | M95 | X | -6 | -6 | 0 | 0 |
| 54 | M96 | X | -6 | -6 | 0 | 0 |
| 55 | M97 | X | -8 | -8 | 0 | 0 |
| 56 | M1 | Z | 3 | 3 | 0 | 0 |
| 57 | M2 | Z | 5 | 5 | 0 | 0 |
| 58 | M3 | Z | 5 | 5 | 0 | 0 |
| 59 | M4 | Z | 3 | 3 | 0 | 0 |
| 60 | M5 | Z | 3 | 3 | 0 | 0 |
| 61 | M6 | Z | 3 | 3 | 0 | 0 |
| 62 | M19 | Z | 3 | 3 | 0 | 0 |
| 63 | M20 | Z | 3 | 3 | 0 | 0 |
| 64 | M21 | Z | 3 | 3 | 0 | 0 |
| 65 | M22 | Z | 3 | 3 | 0 | 0 |
| 66 | M23 | Z | 3 | 3 | 0 | 0 |
| 67 | M24 | Z | 3 | 3 | 0 | 0 |
| 68 | M25 | Z | 3 | 3 | 0 | 0 |
| 69 | M26 | Z | 3 | 3 | 0 | 0 |
| 70 | M27 | Z | 3 | 3 | 0 | 0 |
| 71 | M28 | Z | 3 | 3 | 0 | 0 |
| 72 | M29 | Z | 5 | 5 | 0 | 0 |

Member Distributed Loads (BLC 21 : Wind + Live Lm (60 deg)) (Continued)

| Member Label | Direction | Start Magnitude[lb/ft.F] | End Magnitude[lb/ft.F.psf] | Start Location[in.%] | End Location[in.%] | |
|--------------|-----------|--------------------------|----------------------------|----------------------|--------------------|---|
| 73 | M30 | Z | 5 | 5 | 0 | 0 |
| 74 | M31 | Z | 3 | 3 | 0 | 0 |
| 75 | M32 | Z | 3 | 3 | 0 | 0 |
| 76 | M33 | Z | 3 | 3 | 0 | 0 |
| 77 | M43 | Z | 3 | 3 | 0 | 0 |
| 78 | M44 | Z | 3 | 3 | 0 | 0 |
| 79 | M45 | Z | 3 | 3 | 0 | 0 |
| 80 | M46 | Z | 3 | 3 | 0 | 0 |
| 81 | M47 | Z | 3 | 3 | 0 | 0 |
| 82 | M48 | Z | 3 | 3 | 0 | 0 |
| 83 | M49 | Z | 3 | 3 | 0 | 0 |
| 84 | M50 | Z | 5 | 5 | 0 | 0 |
| 85 | M51 | Z | 5 | 5 | 0 | 0 |
| 86 | M52 | Z | 3 | 3 | 0 | 0 |
| 87 | M53 | Z | 3 | 3 | 0 | 0 |
| 88 | M54 | Z | 3 | 3 | 0 | 0 |
| 89 | M64 | Z | 3 | 3 | 0 | 0 |
| 90 | M65 | Z | 3 | 3 | 0 | 0 |
| 91 | M66 | Z | 3 | 3 | 0 | 0 |
| 92 | M67 | Z | 3 | 3 | 0 | 0 |
| 93 | M68 | Z | 3 | 3 | 0 | 0 |
| 94 | M69 | Z | 3 | 3 | 0 | 0 |
| 95 | M70 | Z | 3 | 3 | 0 | 0 |
| 96 | M71 | Z | 3 | 3 | 0 | 0 |
| 97 | M72 | Z | 3 | 3 | 0 | 0 |
| 98 | M73 | Z | 3 | 3 | 0 | 0 |
| 99 | M74 | Z | 3 | 3 | 0 | 0 |
| 100 | M75 | Z | 3 | 3 | 0 | 0 |
| 101 | M76 | Z | 3 | 3 | 0 | 0 |
| 102 | M89 | Z | 1 | 1 | 0 | 0 |
| 103 | M90 | Z | 1 | 1 | 0 | 0 |
| 104 | M91 | Z | 1.4 | 1.4 | 0 | 0 |
| 105 | M92 | Z | 1 | 1 | 0 | 0 |
| 106 | M93 | Z | 1 | 1 | 0 | 0 |
| 107 | M94 | Z | 1.4 | 1.4 | 0 | 0 |
| 108 | M95 | Z | 1 | 1 | 0 | 0 |
| 109 | M96 | Z | 1 | 1 | 0 | 0 |
| 110 | M97 | Z | 1.4 | 1.4 | 0 | 0 |

Member Distributed Loads (BLC 22 : Wind + Live Lm (120 deg))

| Member Label | Direction | Start Magnitude[lb/ft.F] | End Magnitude[lb/ft.F.psf] | Start Location[in.%] | End Location[in.%] | |
|--------------|-----------|--------------------------|----------------------------|----------------------|--------------------|---|
| 1 | M1 | X | 2 | 2 | 0 | 0 |
| 2 | M2 | X | 3 | 3 | 0 | 0 |
| 3 | M3 | X | 3 | 3 | 0 | 0 |
| 4 | M4 | X | 2 | 2 | 0 | 0 |
| 5 | M5 | X | 2 | 2 | 0 | 0 |
| 6 | M6 | X | 2 | 2 | 0 | 0 |
| 7 | M19 | X | 2 | 2 | 0 | 0 |
| 8 | M20 | X | 2 | 2 | 0 | 0 |
| 9 | M21 | X | 2 | 2 | 0 | 0 |
| 10 | M22 | X | 2 | 2 | 0 | 0 |
| 11 | M23 | X | 2 | 2 | 0 | 0 |
| 12 | M24 | X | 2 | 2 | 0 | 0 |
| 13 | M25 | X | 2 | 2 | 0 | 0 |
| 14 | M26 | X | 2 | 2 | 0 | 0 |
| 15 | M27 | X | 2 | 2 | 0 | 0 |



Company : Infinigy Engineering, LLC
 Designer : DVA
 Job Number : 1009-Z0003-B
 Model Name : MRCTB046850

July 15, 2020
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Member Distributed Loads (BLC 22 : Wind + Live Lm (120 deg)) (Continued)

| Member Label | Direction | Start Magnitude(lb/ft F | End Magnitude(lb/ft F psf) | Start Location(in %) | End Location(in %) | |
|--------------|-----------|-------------------------|----------------------------|----------------------|--------------------|---|
| 16 | M28 | X | 2 | 2 | 0 | 0 |
| 17 | M29 | X | 3 | 3 | 0 | 0 |
| 18 | M30 | X | 3 | 3 | 0 | 0 |
| 19 | M31 | X | 2 | 2 | 0 | 0 |
| 20 | M32 | X | 2 | 2 | 0 | 0 |
| 21 | M33 | X | 2 | 2 | 0 | 0 |
| 22 | M43 | X | 2 | 2 | 0 | 0 |
| 23 | M44 | X | 2 | 2 | 0 | 0 |
| 24 | M45 | X | 2 | 2 | 0 | 0 |
| 25 | M46 | X | 2 | 2 | 0 | 0 |
| 26 | M47 | X | 2 | 2 | 0 | 0 |
| 27 | M48 | X | 2 | 2 | 0 | 0 |
| 28 | M49 | X | 2 | 2 | 0 | 0 |
| 29 | M50 | X | 3 | 3 | 0 | 0 |
| 30 | M51 | X | 3 | 3 | 0 | 0 |
| 31 | M52 | X | 2 | 2 | 0 | 0 |
| 32 | M53 | X | 2 | 2 | 0 | 0 |
| 33 | M54 | X | 2 | 2 | 0 | 0 |
| 34 | M64 | X | 2 | 2 | 0 | 0 |
| 35 | M65 | X | 2 | 2 | 0 | 0 |
| 36 | M66 | X | 2 | 2 | 0 | 0 |
| 37 | M67 | X | 2 | 2 | 0 | 0 |
| 38 | M68 | X | 2 | 2 | 0 | 0 |
| 39 | M69 | X | 2 | 2 | 0 | 0 |
| 40 | M70 | X | 2 | 2 | 0 | 0 |
| 41 | M71 | X | 2 | 2 | 0 | 0 |
| 42 | M72 | X | 2 | 2 | 0 | 0 |
| 43 | M73 | X | 2 | 2 | 0 | 0 |
| 44 | M74 | X | 2 | 2 | 0 | 0 |
| 45 | M75 | X | 2 | 2 | 0 | 0 |
| 46 | M76 | X | 2 | 2 | 0 | 0 |
| 47 | M89 | X | 6 | 6 | 0 | 0 |
| 48 | M90 | X | 6 | 6 | 0 | 0 |
| 49 | M91 | X | 8 | 8 | 0 | 0 |
| 50 | M92 | X | 6 | 6 | 0 | 0 |
| 51 | M93 | X | 6 | 6 | 0 | 0 |
| 52 | M94 | X | 8 | 8 | 0 | 0 |
| 53 | M95 | X | 6 | 6 | 0 | 0 |
| 54 | M96 | X | 6 | 6 | 0 | 0 |
| 55 | M97 | X | 8 | 8 | 0 | 0 |
| 56 | M1 | Z | 3 | 3 | 0 | 0 |
| 57 | M2 | Z | 5 | 5 | 0 | 0 |
| 58 | M3 | Z | 5 | 5 | 0 | 0 |
| 59 | M4 | Z | 3 | 3 | 0 | 0 |
| 60 | M5 | Z | 3 | 3 | 0 | 0 |
| 61 | M6 | Z | 3 | 3 | 0 | 0 |
| 62 | M19 | Z | 3 | 3 | 0 | 0 |
| 63 | M20 | Z | 3 | 3 | 0 | 0 |
| 64 | M21 | Z | 3 | 3 | 0 | 0 |
| 65 | M22 | Z | 3 | 3 | 0 | 0 |
| 66 | M23 | Z | 3 | 3 | 0 | 0 |
| 67 | M24 | Z | 3 | 3 | 0 | 0 |
| 68 | M25 | Z | 3 | 3 | 0 | 0 |
| 69 | M26 | Z | 3 | 3 | 0 | 0 |
| 70 | M27 | Z | 3 | 3 | 0 | 0 |
| 71 | M28 | Z | 3 | 3 | 0 | 0 |
| 72 | M29 | Z | 5 | 5 | 0 | 0 |



Member Distributed Loads (BLC 22 : Wind + Live Lm (120 deg)) (Continued)

| Member Label | Direction | Start Magnitude[lb/ft.F] | End Magnitude[lb/ft.F.psf] | Start Location[in.%] | End Location[in.%] | |
|--------------|-----------|--------------------------|----------------------------|----------------------|--------------------|---|
| 73 | M30 | Z | 5 | 5 | 0 | 0 |
| 74 | M31 | Z | 3 | 3 | 0 | 0 |
| 75 | M32 | Z | 3 | 3 | 0 | 0 |
| 76 | M33 | Z | 3 | 3 | 0 | 0 |
| 77 | M43 | Z | 3 | 3 | 0 | 0 |
| 78 | M44 | Z | 3 | 3 | 0 | 0 |
| 79 | M45 | Z | 3 | 3 | 0 | 0 |
| 80 | M46 | Z | 3 | 3 | 0 | 0 |
| 81 | M47 | Z | 3 | 3 | 0 | 0 |
| 82 | M48 | Z | 3 | 3 | 0 | 0 |
| 83 | M49 | Z | 3 | 3 | 0 | 0 |
| 84 | M50 | Z | 5 | 5 | 0 | 0 |
| 85 | M51 | Z | 5 | 5 | 0 | 0 |
| 86 | M52 | Z | 3 | 3 | 0 | 0 |
| 87 | M53 | Z | 3 | 3 | 0 | 0 |
| 88 | M54 | Z | 3 | 3 | 0 | 0 |
| 89 | M64 | Z | 3 | 3 | 0 | 0 |
| 90 | M65 | Z | 3 | 3 | 0 | 0 |
| 91 | M66 | Z | 3 | 3 | 0 | 0 |
| 92 | M67 | Z | 3 | 3 | 0 | 0 |
| 93 | M68 | Z | 3 | 3 | 0 | 0 |
| 94 | M69 | Z | 3 | 3 | 0 | 0 |
| 95 | M70 | Z | 3 | 3 | 0 | 0 |
| 96 | M71 | Z | 3 | 3 | 0 | 0 |
| 97 | M72 | Z | 3 | 3 | 0 | 0 |
| 98 | M73 | Z | 3 | 3 | 0 | 0 |
| 99 | M74 | Z | 3 | 3 | 0 | 0 |
| 100 | M75 | Z | 3 | 3 | 0 | 0 |
| 101 | M76 | Z | 3 | 3 | 0 | 0 |
| 102 | M89 | Z | 1 | 1 | 0 | 0 |
| 103 | M90 | Z | 1 | 1 | 0 | 0 |
| 104 | M91 | Z | 1.4 | 1.4 | 0 | 0 |
| 105 | M92 | Z | 1 | 1 | 0 | 0 |
| 106 | M93 | Z | 1 | 1 | 0 | 0 |
| 107 | M94 | Z | 1.4 | 1.4 | 0 | 0 |
| 108 | M95 | Z | 1 | 1 | 0 | 0 |
| 109 | M96 | Z | 1 | 1 | 0 | 0 |
| 110 | M97 | Z | 1.4 | 1.4 | 0 | 0 |

Member Distributed Loads (BLC 23 : Wind + Live Lm (150 deg))

| Member Label | Direction | Start Magnitude[lb/ft.F] | End Magnitude[lb/ft.F.psf] | Start Location[in.%] | End Location[in.%] | |
|--------------|-----------|--------------------------|----------------------------|----------------------|--------------------|---|
| 1 | M1 | X | 3 | 3 | 0 | 0 |
| 2 | M2 | X | 5 | 5 | 0 | 0 |
| 3 | M3 | X | 5 | 5 | 0 | 0 |
| 4 | M4 | X | 3 | 3 | 0 | 0 |
| 5 | M5 | X | 3 | 3 | 0 | 0 |
| 6 | M6 | X | 3 | 3 | 0 | 0 |
| 7 | M19 | X | 3 | 3 | 0 | 0 |
| 8 | M20 | X | 3 | 3 | 0 | 0 |
| 9 | M21 | X | 3 | 3 | 0 | 0 |
| 10 | M22 | X | 3 | 3 | 0 | 0 |
| 11 | M23 | X | 3 | 3 | 0 | 0 |
| 12 | M24 | X | 3 | 3 | 0 | 0 |
| 13 | M25 | X | 3 | 3 | 0 | 0 |
| 14 | M26 | X | 3 | 3 | 0 | 0 |
| 15 | M27 | X | 3 | 3 | 0 | 0 |



Company : Infinigy Engineering, LLC
 Designer : DVA
 Job Number : 1009-Z0003-B
 Model Name : MRCTB046850

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Member Distributed Loads (BLC 23 : Wind + Live Lm (150 deg)) (Continued)

| Member Label | Direction | Start Magnitude(lb/ft F | End Magnitude(lb/ft F psf) | Start Location(in %) | End Location(in %) | |
|--------------|-----------|-------------------------|----------------------------|----------------------|--------------------|---|
| 16 | M28 | X | .3 | .3 | 0 | 0 |
| 17 | M29 | X | .5 | .5 | 0 | 0 |
| 18 | M30 | X | .5 | .5 | 0 | 0 |
| 19 | M31 | X | .3 | .3 | 0 | 0 |
| 20 | M32 | X | .3 | .3 | 0 | 0 |
| 21 | M33 | X | .3 | .3 | 0 | 0 |
| 22 | M43 | X | .3 | .3 | 0 | 0 |
| 23 | M44 | X | .3 | .3 | 0 | 0 |
| 24 | M45 | X | .3 | .3 | 0 | 0 |
| 25 | M46 | X | .3 | .3 | 0 | 0 |
| 26 | M47 | X | .3 | .3 | 0 | 0 |
| 27 | M48 | X | .3 | .3 | 0 | 0 |
| 28 | M49 | X | .3 | .3 | 0 | 0 |
| 29 | M50 | X | .5 | .5 | 0 | 0 |
| 30 | M51 | X | .5 | .5 | 0 | 0 |
| 31 | M52 | X | .3 | .3 | 0 | 0 |
| 32 | M53 | X | .3 | .3 | 0 | 0 |
| 33 | M54 | X | .3 | .3 | 0 | 0 |
| 34 | M64 | X | .3 | .3 | 0 | 0 |
| 35 | M65 | X | .3 | .3 | 0 | 0 |
| 36 | M66 | X | .3 | .3 | 0 | 0 |
| 37 | M67 | X | .3 | .3 | 0 | 0 |
| 38 | M68 | X | .3 | .3 | 0 | 0 |
| 39 | M69 | X | .3 | .3 | 0 | 0 |
| 40 | M70 | X | .3 | .3 | 0 | 0 |
| 41 | M71 | X | .3 | .3 | 0 | 0 |
| 42 | M72 | X | .3 | .3 | 0 | 0 |
| 43 | M73 | X | .3 | .3 | 0 | 0 |
| 44 | M74 | X | .3 | .3 | 0 | 0 |
| 45 | M75 | X | .3 | .3 | 0 | 0 |
| 46 | M76 | X | .3 | .3 | 0 | 0 |
| 47 | M89 | X | 1 | 1 | 0 | 0 |
| 48 | M90 | X | 1 | 1 | 0 | 0 |
| 49 | M91 | X | 1.4 | 1.4 | 0 | 0 |
| 50 | M92 | X | 1 | 1 | 0 | 0 |
| 51 | M93 | X | 1 | 1 | 0 | 0 |
| 52 | M94 | X | 1.4 | 1.4 | 0 | 0 |
| 53 | M95 | X | 1 | 1 | 0 | 0 |
| 54 | M96 | X | 1 | 1 | 0 | 0 |
| 55 | M97 | X | 1.4 | 1.4 | 0 | 0 |
| 56 | M1 | Z | .2 | .2 | 0 | 0 |
| 57 | M2 | Z | .3 | .3 | 0 | 0 |
| 58 | M3 | Z | .3 | .3 | 0 | 0 |
| 59 | M4 | Z | .2 | .2 | 0 | 0 |
| 60 | M5 | Z | .2 | .2 | 0 | 0 |
| 61 | M6 | Z | .2 | .2 | 0 | 0 |
| 62 | M19 | Z | .2 | .2 | 0 | 0 |
| 63 | M20 | Z | .2 | .2 | 0 | 0 |
| 64 | M21 | Z | .2 | .2 | 0 | 0 |
| 65 | M22 | Z | .2 | .2 | 0 | 0 |
| 66 | M23 | Z | .2 | .2 | 0 | 0 |
| 67 | M24 | Z | .2 | .2 | 0 | 0 |
| 68 | M25 | Z | .2 | .2 | 0 | 0 |
| 69 | M26 | Z | .2 | .2 | 0 | 0 |
| 70 | M27 | Z | .2 | .2 | 0 | 0 |
| 71 | M28 | Z | .2 | .2 | 0 | 0 |
| 72 | M29 | Z | .3 | .3 | 0 | 0 |



Member Distributed Loads (BLC 23 : Wind + Live Lm (150 deg)) (Continued)

| Member Label | Direction | Start Magnitude[lb/ft.F] | End Magnitude[lb/ft.F.psf] | Start Location[in.%] | End Location[in.%] | |
|--------------|-----------|--------------------------|----------------------------|----------------------|--------------------|---|
| 73 | M30 | Z | 3 | 3 | 0 | 0 |
| 74 | M31 | Z | 2 | 2 | 0 | 0 |
| 75 | M32 | Z | 2 | 2 | 0 | 0 |
| 76 | M33 | Z | 2 | 2 | 0 | 0 |
| 77 | M43 | Z | 2 | 2 | 0 | 0 |
| 78 | M44 | Z | 2 | 2 | 0 | 0 |
| 79 | M45 | Z | 2 | 2 | 0 | 0 |
| 80 | M46 | Z | 2 | 2 | 0 | 0 |
| 81 | M47 | Z | 2 | 2 | 0 | 0 |
| 82 | M48 | Z | 2 | 2 | 0 | 0 |
| 83 | M49 | Z | 2 | 2 | 0 | 0 |
| 84 | M50 | Z | 3 | 3 | 0 | 0 |
| 85 | M51 | Z | 3 | 3 | 0 | 0 |
| 86 | M52 | Z | 2 | 2 | 0 | 0 |
| 87 | M53 | Z | 2 | 2 | 0 | 0 |
| 88 | M54 | Z | 2 | 2 | 0 | 0 |
| 89 | M64 | Z | 2 | 2 | 0 | 0 |
| 90 | M65 | Z | 2 | 2 | 0 | 0 |
| 91 | M66 | Z | 2 | 2 | 0 | 0 |
| 92 | M67 | Z | 2 | 2 | 0 | 0 |
| 93 | M68 | Z | 2 | 2 | 0 | 0 |
| 94 | M69 | Z | 2 | 2 | 0 | 0 |
| 95 | M70 | Z | 2 | 2 | 0 | 0 |
| 96 | M71 | Z | 2 | 2 | 0 | 0 |
| 97 | M72 | Z | 2 | 2 | 0 | 0 |
| 98 | M73 | Z | 2 | 2 | 0 | 0 |
| 99 | M74 | Z | 2 | 2 | 0 | 0 |
| 100 | M75 | Z | 2 | 2 | 0 | 0 |
| 101 | M76 | Z | 2 | 2 | 0 | 0 |
| 102 | M89 | Z | 6 | 6 | 0 | 0 |
| 103 | M90 | Z | 6 | 6 | 0 | 0 |
| 104 | M91 | Z | 8 | 8 | 0 | 0 |
| 105 | M92 | Z | 6 | 6 | 0 | 0 |
| 106 | M93 | Z | 6 | 6 | 0 | 0 |
| 107 | M94 | Z | 8 | 8 | 0 | 0 |
| 108 | M95 | Z | 6 | 6 | 0 | 0 |
| 109 | M96 | Z | 6 | 6 | 0 | 0 |
| 110 | M97 | Z | 8 | 8 | 0 | 0 |

Member Distributed Loads (BLC 36 : BLC 1 Transient Area Loads)

| Member Label | Direction | Start Magnitude[lb/ft.F] | End Magnitude[lb/ft.F.psf] | Start Location[in.%] | End Location[in.%] | |
|--------------|-----------|--------------------------|----------------------------|----------------------|--------------------|-------|
| 1 | M1 | Y | -2.128 | -702 | 75.6 | 81.9 |
| 2 | M1 | Y | -702 | -831 | 81.9 | 88.2 |
| 3 | M1 | Y | -804 | -2.706 | 88.2 | 94.5 |
| 4 | M1 | Y | -2.706 | -4.63 | 94.5 | 100.8 |
| 5 | M1 | Y | -4.63 | -4.712 | 100.8 | 107.1 |
| 6 | M1 | Y | -4.712 | -3.653 | 107.1 | 113.4 |
| 7 | M1 | Y | -3.653 | -2.306 | 113.4 | 119.7 |
| 8 | M1 | Y | -2.306 | -1.012 | 119.7 | 126 |
| 9 | M28 | Y | -856 | -2.419 | 0 | 6.3 |
| 10 | M28 | Y | -2.419 | -4.289 | 6.3 | 12.6 |
| 11 | M28 | Y | -4.289 | -5.014 | 12.6 | 18.9 |
| 12 | M28 | Y | -5.014 | -4.181 | 18.9 | 25.2 |
| 13 | M28 | Y | -4.181 | -2.857 | 25.2 | 31.5 |
| 14 | M28 | Y | -2.857 | -1.025 | 31.5 | 37.8 |
| 15 | M28 | Y | -1.08 | -.967 | 37.8 | 44.1 |



Company : Infinigy Engineering, LLC
 Designer : DVA
 Job Number : 1009-Z0003-B
 Model Name : MRCTB046850

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Member Distributed Loads (BLC 36 : BLC 1 Transient Area Loads) (Continued)

| Member Label | Direction | Start Magnitude(lb/ft F) | End Magnitude(lb/ft F psf) | Start Location(in %) | End Location(in %) |
|--------------|-----------|--------------------------|----------------------------|----------------------|--------------------|
| 16 | M28 | Y | -967 | -2.177 | 44.1 50.4 |
| 17 | M36 | Y | -2.336 | -2.336 | 0 1.501 |
| 18 | M70 | Y | -11 | -3.011 | 0 6.564 |
| 19 | M70 | Y | -3.011 | -6.879 | 6.564 13.127 |
| 20 | M70 | Y | -6.879 | -9.458 | 13.127 19.691 |
| 21 | M70 | Y | -9.458 | -9.123 | 19.691 26.254 |
| 22 | M70 | Y | -9.123 | -6.554 | 26.254 32.818 |
| 23 | M70 | Y | -6.554 | -3.36 | 32.818 39.381 |
| 24 | M70 | Y | -3.36 | -635 | 39.381 45.945 |
| 25 | M88 | Y | -733 | -733 | .953 3.945 |
| 26 | M1 | Y | -852 | -2.427 | 0 6.3 |
| 27 | M1 | Y | -2.427 | -4.32 | 6.3 12.6 |
| 28 | M1 | Y | -4.32 | -5.031 | 12.6 18.9 |
| 29 | M1 | Y | -5.031 | -4.207 | 18.9 25.2 |
| 30 | M1 | Y | -4.207 | -2.891 | 25.2 31.5 |
| 31 | M1 | Y | -2.891 | -1.026 | 31.5 37.8 |
| 32 | M1 | Y | -1.081 | -967 | 37.8 44.1 |
| 33 | M1 | Y | -967 | -2.178 | 44.1 50.4 |
| 34 | M9 | Y | -2.341 | -2.341 | 0 1.501 |
| 35 | M49 | Y | -2.17 | -1.131 | 75.6 81.9 |
| 36 | M49 | Y | -1.131 | -858 | 81.9 88.2 |
| 37 | M49 | Y | -804 | -2.703 | 88.2 94.5 |
| 38 | M49 | Y | -2.703 | -4.611 | 94.5 100.8 |
| 39 | M49 | Y | -4.611 | -4.697 | 100.8 107.1 |
| 40 | M49 | Y | -4.697 | -3.655 | 107.1 113.4 |
| 41 | M49 | Y | -3.655 | -2.306 | 113.4 119.7 |
| 42 | M49 | Y | -2.306 | -1.011 | 119.7 126 |
| 43 | M72 | Y | -109 | -3.009 | 0 6.564 |
| 44 | M72 | Y | -3.009 | -6.873 | 6.564 13.127 |
| 45 | M72 | Y | -6.873 | -9.437 | 13.127 19.691 |
| 46 | M72 | Y | -9.437 | -9.098 | 19.691 26.254 |
| 47 | M72 | Y | -9.098 | -6.535 | 26.254 32.818 |
| 48 | M72 | Y | -6.535 | -3.35 | 32.818 39.381 |
| 49 | M72 | Y | -3.35 | -644 | 39.381 45.945 |
| 50 | M84 | Y | -735 | -735 | .952 3.945 |
| 51 | M28 | Y | -2.126 | -702 | 75.6 81.9 |
| 52 | M28 | Y | -702 | -831 | 81.9 88.2 |
| 53 | M28 | Y | -804 | -2.706 | 88.2 94.5 |
| 54 | M28 | Y | -2.706 | -4.63 | 94.5 100.8 |
| 55 | M28 | Y | -4.63 | -4.712 | 100.8 107.1 |
| 56 | M28 | Y | -4.712 | -3.653 | 107.1 113.4 |
| 57 | M28 | Y | -3.653 | -2.306 | 113.4 119.7 |
| 58 | M28 | Y | -2.306 | -1.012 | 119.7 126 |
| 59 | M49 | Y | -856 | -2.419 | 0 6.3 |
| 60 | M49 | Y | -2.419 | -4.289 | 6.3 12.6 |
| 61 | M49 | Y | -4.289 | -5.014 | 12.6 18.9 |
| 62 | M49 | Y | -5.014 | -4.181 | 18.9 25.2 |
| 63 | M49 | Y | -4.181 | -2.857 | 25.2 31.5 |
| 64 | M49 | Y | -2.857 | -1.025 | 31.5 37.8 |
| 65 | M49 | Y | -1.052 | -538 | 37.8 44.1 |
| 66 | M49 | Y | -538 | -2.136 | 44.1 50.4 |
| 67 | M57 | Y | -2.336 | -2.336 | 0 1.501 |
| 68 | M71 | Y | -635 | -3.179 | 0 6.564 |
| 69 | M71 | Y | -3.179 | -6.629 | 6.564 13.127 |
| 70 | M71 | Y | -6.629 | -9.379 | 13.127 19.691 |
| 71 | M71 | Y | -9.379 | -9.199 | 19.691 26.254 |
| 72 | M71 | Y | -9.199 | -6.804 | 26.254 32.818 |



Member Distributed Loads (BLC 36 : BLC 1 Transient Area Loads) (Continued)

| Member Label | Direction | Start Magnitude[lb/ft.F] | End Magnitude[lb/ft.F.psf] | Start Location[in.%] | End Location[in.%] | |
|--------------|-----------|--------------------------|----------------------------|----------------------|--------------------|--------|
| 73 | M71 | Y | -6.804 | -3.193 | 32.818 | 39.381 |
| 74 | M71 | Y | -3.193 | -1.11 | 39.381 | 45.945 |
| 75 | M80 | Y | -7.33 | -7.33 | 0 | 2.991 |
| 76 | M1 | Y | -2.129 | -3.568 | 50.4 | 56.7 |
| 77 | M1 | Y | -3.568 | -4.096 | 56.7 | 63 |
| 78 | M1 | Y | -4.096 | -3.594 | 63 | 69.3 |
| 79 | M1 | Y | -3.594 | -2.088 | 69.3 | 75.6 |
| 80 | M19 | Y | -1.389 | -3.269 | 0 | 6.079 |
| 81 | M19 | Y | -3.269 | -5.348 | 6.079 | 12.158 |
| 82 | M19 | Y | -5.348 | -8.434 | 12.158 | 18.236 |
| 83 | M19 | Y | -8.434 | -9.446 | 18.236 | 24.315 |
| 84 | M19 | Y | -9.446 | -6.819 | 24.315 | 30.394 |
| 85 | M19 | Y | -6.819 | -3.438 | 30.394 | 36.473 |
| 86 | M20 | Y | -3.61 | -2.675 | 0 | 6.079 |
| 87 | M20 | Y | -2.675 | -5.945 | 6.079 | 12.158 |
| 88 | M20 | Y | -5.945 | -9.092 | 12.158 | 18.236 |
| 89 | M20 | Y | -9.092 | -9.251 | 18.236 | 24.315 |
| 90 | M20 | Y | -9.251 | -6.903 | 24.315 | 30.394 |
| 91 | M20 | Y | -6.903 | -4.33 | 30.394 | 36.473 |
| 92 | M43 | Y | -1.399 | -3.195 | 0 | 6.079 |
| 93 | M43 | Y | -3.195 | -5.518 | 6.079 | 12.158 |
| 94 | M43 | Y | -5.518 | -8.836 | 12.158 | 18.236 |
| 95 | M43 | Y | -8.836 | -9.273 | 18.236 | 24.315 |
| 96 | M43 | Y | -9.273 | -6.432 | 24.315 | 30.394 |
| 97 | M43 | Y | -6.432 | -3.665 | 30.394 | 36.473 |
| 98 | M65 | Y | -1.389 | -3.269 | 0 | 6.079 |
| 99 | M65 | Y | -3.269 | -5.347 | 6.079 | 12.158 |
| 100 | M65 | Y | -5.347 | -8.433 | 12.158 | 18.236 |
| 101 | M65 | Y | -8.433 | -9.447 | 18.236 | 24.315 |
| 102 | M65 | Y | -9.447 | -6.822 | 24.315 | 30.394 |
| 103 | M65 | Y | -6.822 | -3.439 | 30.394 | 36.473 |
| 104 | M28 | Y | -2.128 | -3.563 | 50.4 | 56.7 |
| 105 | M28 | Y | -3.563 | -4.089 | 56.7 | 63 |
| 106 | M28 | Y | -4.089 | -3.589 | 63 | 69.3 |
| 107 | M28 | Y | -3.589 | -2.086 | 69.3 | 75.6 |
| 108 | M44 | Y | -3.62 | -2.675 | 0 | 6.079 |
| 109 | M44 | Y | -2.675 | -5.94 | 6.079 | 12.158 |
| 110 | M44 | Y | -5.94 | -9.088 | 12.158 | 18.236 |
| 111 | M44 | Y | -9.088 | -9.251 | 18.236 | 24.315 |
| 112 | M44 | Y | -9.251 | -6.902 | 24.315 | 30.394 |
| 113 | M44 | Y | -6.902 | -4.331 | 30.394 | 36.473 |
| 114 | M64 | Y | -3.51 | -2.749 | 0 | 6.079 |
| 115 | M64 | Y | -2.749 | -5.776 | 6.079 | 12.158 |
| 116 | M64 | Y | -5.776 | -8.702 | 12.158 | 18.236 |
| 117 | M64 | Y | -8.702 | -9.438 | 18.236 | 24.315 |
| 118 | M64 | Y | -9.438 | -7.294 | 24.315 | 30.394 |
| 119 | M64 | Y | -7.294 | -4.104 | 30.394 | 36.473 |
| 120 | M49 | Y | -2.088 | -3.594 | 50.4 | 56.7 |
| 121 | M49 | Y | -3.594 | -4.096 | 56.7 | 63 |
| 122 | M49 | Y | -4.096 | -3.568 | 63 | 69.3 |
| 123 | M49 | Y | -3.568 | -2.129 | 69.3 | 75.6 |

Member Distributed Loads (BLC 37 : BLC 8 Transient Area Loads)

| Member Label | Direction | Start Magnitude[lb/ft.F] | End Magnitude[lb/ft.F.psf] | Start Location[in.%] | End Location[in.%] | |
|--------------|-----------|--------------------------|----------------------------|----------------------|--------------------|------|
| 1 | M28 | Y | -2.891 | -954 | 75.6 | 81.9 |
| 2 | M28 | Y | -954 | -1.131 | 81.9 | 88.2 |



Company : Infinigy Engineering, LLC
 Designer : DVA
 Job Number : 1009-Z0003-B
 Model Name : MRCTB046850

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Member Distributed Loads (BLC 37 : BLC 8 Transient Area Loads) (Continued)

| Member Label | Direction | Start Magnitude[lb/ft.F] | End Magnitude[lb/ft.F.psf] | Start Location[in.%] | End Location[in.%] | |
|--------------|-----------|--------------------------|----------------------------|----------------------|--------------------|--------|
| 3 | M28 | Y | -1.094 | -3.68 | 88.2 | 94.5 |
| 4 | M28 | Y | -3.68 | -6.299 | 94.5 | 100.8 |
| 5 | M28 | Y | -6.299 | -6.416 | 100.8 | 107.1 |
| 6 | M28 | Y | -6.416 | -4.971 | 107.1 | 113.4 |
| 7 | M28 | Y | -4.971 | -3.133 | 113.4 | 119.7 |
| 8 | M28 | Y | -3.133 | -1.377 | 119.7 | 126 |
| 9 | M49 | Y | -1.16 | -3.292 | 0 | 6.3 |
| 10 | M49 | Y | -3.292 | -5.837 | 6.3 | 12.6 |
| 11 | M49 | Y | -5.837 | -6.819 | 12.6 | 18.9 |
| 12 | M49 | Y | -6.819 | -5.685 | 18.9 | 25.2 |
| 13 | M49 | Y | -5.685 | -3.885 | 25.2 | 31.5 |
| 14 | M49 | Y | -3.885 | -1.394 | 31.5 | 37.8 |
| 15 | M49 | Y | -1.468 | -1.315 | 37.8 | 44.1 |
| 16 | M49 | Y | -1.315 | -2.961 | 44.1 | 50.4 |
| 17 | M57 | Y | -3.175 | -3.175 | 0 | 1.501 |
| 18 | M71 | Y | -.864 | -4.569 | 0 | 6.564 |
| 19 | M71 | Y | -4.569 | -8.913 | 6.564 | 13.127 |
| 20 | M71 | Y | -8.913 | -12.405 | 13.127 | 19.691 |
| 21 | M71 | Y | -12.405 | -12.858 | 19.691 | 26.254 |
| 22 | M71 | Y | -12.858 | -9.354 | 26.254 | 32.818 |
| 23 | M71 | Y | -9.354 | -4.095 | 32.818 | 39.381 |
| 24 | M71 | Y | -4.095 | -.149 | 39.381 | 45.945 |
| 25 | M80 | Y | -.996 | -.996 | 0 | 2.993 |
| 26 | M28 | Y | -1.468 | -1.315 | 37.8 | 44.1 |
| 27 | M28 | Y | -1.315 | -2.96 | 44.1 | 50.4 |
| 28 | M28 | Y | -2.894 | -4.846 | 50.4 | 56.7 |
| 29 | M28 | Y | -4.846 | -5.561 | 56.7 | 63 |
| 30 | M28 | Y | -5.561 | -4.881 | 63 | 69.3 |
| 31 | M28 | Y | -4.881 | -2.836 | 69.3 | 75.6 |
| 32 | M43 | Y | -1.888 | -4.446 | 0 | 6.079 |
| 33 | M43 | Y | -4.446 | -7.275 | 6.079 | 12.158 |
| 34 | M43 | Y | -7.275 | -11.489 | 12.158 | 18.236 |
| 35 | M43 | Y | -11.489 | -12.863 | 18.236 | 24.315 |
| 36 | M43 | Y | -12.863 | -9.275 | 24.315 | 30.394 |
| 37 | M43 | Y | -9.275 | -4.676 | 30.394 | 36.473 |
| 38 | M44 | Y | -.492 | -3.638 | 0 | 6.079 |
| 39 | M44 | Y | -3.638 | -8.079 | 6.079 | 12.158 |
| 40 | M44 | Y | -8.079 | -12.36 | 12.158 | 18.236 |
| 41 | M44 | Y | -12.36 | -12.582 | 18.236 | 24.315 |
| 42 | M44 | Y | -12.582 | -9.386 | 24.315 | 30.394 |
| 43 | M44 | Y | -9.386 | -5.89 | 30.394 | 36.473 |
| 44 | M19 | Y | -1.888 | -4.446 | 0 | 6.079 |
| 45 | M19 | Y | -4.446 | -7.273 | 6.079 | 12.158 |
| 46 | M19 | Y | -7.273 | -11.47 | 12.158 | 18.236 |
| 47 | M19 | Y | -11.47 | -12.846 | 18.236 | 24.315 |
| 48 | M19 | Y | -12.846 | -9.273 | 24.315 | 30.394 |
| 49 | M19 | Y | -9.273 | -4.676 | 30.394 | 36.473 |
| 50 | M70 | Y | -.149 | -4.096 | 0 | 6.564 |
| 51 | M70 | Y | -4.096 | -9.356 | 6.564 | 13.127 |
| 52 | M70 | Y | -9.356 | -12.862 | 13.127 | 19.691 |
| 53 | M70 | Y | -12.862 | -12.407 | 19.691 | 26.254 |
| 54 | M70 | Y | -12.407 | -8.914 | 26.254 | 32.818 |
| 55 | M70 | Y | -8.914 | -4.57 | 32.818 | 39.381 |
| 56 | M70 | Y | -4.57 | -.864 | 39.381 | 45.945 |
| 57 | M1 | Y | -2.894 | -.955 | 75.6 | 81.9 |
| 58 | M1 | Y | -.955 | -1.131 | 81.9 | 88.2 |
| 59 | M1 | Y | -1.094 | -3.68 | 88.2 | 94.5 |



Company : Infinigy Engineering, LLC
 Designer : DVA
 Job Number : 1009-Z0003-B
 Model Name : MRCTB046850

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Member Distributed Loads (BLC 37 : BLC 8 Transient Area Loads) (Continued)

| Member Label | Direction | Start Magnitude(lb/ft F | End Magnitude(lb/ft F | Start Location(in %) | End Location(in %) |
|--------------|-----------|-------------------------|-----------------------|----------------------|--------------------|
| 60 | M1 | -3.68 | -6.296 | 94.5 | 100.8 |
| 61 | M1 | -6.296 | -6.409 | 100.8 | 107.1 |
| 62 | M1 | -6.409 | -4.968 | 107.1 | 113.4 |
| 63 | M1 | -4.968 | -3.136 | 113.4 | 119.7 |
| 64 | M1 | -3.136 | -1.376 | 119.7 | 126 |
| 65 | M28 | -1.164 | -3.29 | 0 | 6.3 |
| 66 | M28 | -3.29 | -5.833 | 6.3 | 12.6 |
| 67 | M28 | -5.833 | -6.818 | 12.6 | 18.9 |
| 68 | M28 | -6.818 | -5.686 | 18.9 | 25.2 |
| 69 | M28 | -5.686 | -3.885 | 25.2 | 31.5 |
| 70 | M28 | -3.885 | -1.394 | 31.5 | 37.8 |
| 71 | M36 | -3.177 | -3.177 | 0 | 1.501 |
| 72 | M88 | -.997 | -.997 | .953 | 3.945 |
| 73 | M1 | -1.468 | -1.315 | 37.8 | 44.1 |
| 74 | M1 | -1.315 | -2.962 | 44.1 | 50.4 |
| 75 | M1 | -2.896 | -4.853 | 50.4 | 56.7 |
| 76 | M1 | -4.853 | -5.57 | 56.7 | 63 |
| 77 | M1 | -5.57 | -4.887 | 63 | 69.3 |
| 78 | M1 | -4.887 | -2.839 | 69.3 | 75.6 |
| 79 | M20 | -.479 | -3.743 | 0 | 6.079 |
| 80 | M20 | -3.743 | -7.866 | 6.079 | 12.158 |
| 81 | M20 | -7.866 | -11.861 | 12.158 | 18.236 |
| 82 | M20 | -11.861 | -12.875 | 18.236 | 24.315 |
| 83 | M20 | -12.875 | -9.93 | 24.315 | 30.394 |
| 84 | M20 | -9.93 | -5.53 | 30.394 | 36.473 |
| 85 | M64 | -1.904 | -4.343 | 0 | 6.079 |
| 86 | M64 | -4.343 | -7.496 | 6.079 | 12.158 |
| 87 | M64 | -7.496 | -12.012 | 12.158 | 18.236 |
| 88 | M64 | -12.012 | -12.607 | 18.236 | 24.315 |
| 89 | M64 | -12.607 | -8.738 | 24.315 | 30.394 |
| 90 | M64 | -8.738 | -4.97 | 30.394 | 36.473 |
| 91 | M72 | -.149 | -4.336 | 0 | 6.564 |
| 92 | M72 | -4.336 | -9.24 | 6.564 | 13.127 |
| 93 | M72 | -9.24 | -12.502 | 13.127 | 19.691 |
| 94 | M72 | -12.502 | -12.756 | 19.691 | 26.254 |
| 95 | M72 | -12.756 | -9.016 | 26.254 | 32.818 |
| 96 | M72 | -9.016 | -4.322 | 32.818 | 39.381 |
| 97 | M72 | -4.322 | -.864 | 39.381 | 45.945 |
| 98 | M1 | -1.164 | -3.29 | 0 | 6.3 |
| 99 | M1 | -3.29 | -5.833 | 6.3 | 12.6 |
| 100 | M1 | -5.833 | -6.818 | 12.6 | 18.9 |
| 101 | M1 | -6.818 | -5.686 | 18.9 | 25.2 |
| 102 | M1 | -5.686 | -3.885 | 25.2 | 31.5 |
| 103 | M1 | -3.885 | -1.394 | 31.5 | 37.8 |
| 104 | M9 | -3.177 | -3.177 | 0 | 1.501 |
| 105 | M49 | -2.891 | -.954 | 75.6 | 81.9 |
| 106 | M49 | -.954 | -1.131 | 81.9 | 88.2 |
| 107 | M49 | -1.094 | -3.68 | 88.2 | 94.5 |
| 108 | M49 | -3.68 | -6.296 | 94.5 | 100.8 |
| 109 | M49 | -6.296 | -6.409 | 100.8 | 107.1 |
| 110 | M49 | -6.409 | -4.968 | 107.1 | 113.4 |
| 111 | M49 | -4.968 | -3.136 | 113.4 | 119.7 |
| 112 | M49 | -3.136 | -1.376 | 119.7 | 126 |
| 113 | M84 | -.997 | -.997 | .953 | 3.945 |
| 114 | M49 | -2.894 | -4.846 | 50.4 | 56.7 |
| 115 | M49 | -4.846 | -5.561 | 56.7 | 63 |
| 116 | M49 | -5.561 | -4.881 | 63 | 69.3 |



Member Distributed Loads (BLC 37 : BLC 8 Transient Area Loads) (Continued)

| Member Label | Direction | Start Magnitude[lb/ft.F] | End Magnitude[lb/ft.F.psf] | Start Location[in.%] | End Location[in.%] | |
|--------------|-----------|--------------------------|----------------------------|----------------------|--------------------|--------|
| 117 | M49 | Y | -4.881 | -2.836 | 69.3 | 75.6 |
| 118 | M65 | Y | -4.92 | -3.638 | 0 | 6.079 |
| 119 | M65 | Y | -3.638 | -8.079 | 6.079 | 12.158 |
| 120 | M65 | Y | -8.079 | -12.36 | 12.158 | 18.236 |
| 121 | M65 | Y | -12.36 | -12.582 | 18.236 | 24.315 |
| 122 | M65 | Y | -12.582 | -9.386 | 24.315 | 30.394 |
| 123 | M65 | Y | -9.386 | -5.89 | 30.394 | 36.473 |

Member Area Loads (BLC 1 : Dead)

| Joint A | Joint B | Joint C | Joint D | Direction | Distribution | Magnitude[psf] | |
|---------|---------|---------|---------|-----------|--------------|----------------|----|
| 1 | N16 | N88 | N56 | N2 | Y | Two Way | -5 |
| 2 | N95 | N1 | N40 | N109 | Y | Two Way | -5 |
| 3 | N71 | N126 | N94 | N57 | Y | Two Way | -5 |
| 4 | N40 | N31 | N30 | N16 | Y | Two Way | -5 |
| 5 | N126 | N121 | N82 | N71 | Y | Two Way | -5 |
| 6 | N82 | N71 | N88 | N83 | Y | Two Way | -5 |
| 7 | N30 | N83 | N88 | N16 | Y | Two Way | -5 |
| 8 | N109 | N120 | N31 | N40 | Y | Two Way | -5 |
| 9 | N109 | N120 | N121 | N126 | Y | Two Way | -5 |

Member Area Loads (BLC 8 : Dead Ice)

| Joint A | Joint B | Joint C | Joint D | Direction | Distribution | Magnitude[psf] | |
|---------|---------|---------|---------|-----------|--------------|----------------|------|
| 1 | N126 | N94 | N57 | N71 | Y | Two Way | -6.8 |
| 2 | N82 | N71 | N88 | N83 | Y | Two Way | -6.8 |
| 3 | N30 | N83 | N88 | N16 | Y | Two Way | -6.8 |
| 4 | N16 | N88 | N56 | N2 | Y | Two Way | -6.8 |
| 5 | N40 | N31 | N30 | N16 | Y | Two Way | -6.8 |
| 6 | N40 | N109 | N120 | N31 | Y | Two Way | -6.8 |
| 7 | N95 | N109 | N40 | N1 | Y | Two Way | -6.8 |
| 8 | N109 | N126 | N121 | N120 | Y | Two Way | -6.8 |
| 9 | N121 | N126 | N71 | N82 | Y | Two Way | -6.8 |

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

| Member | Shape | Code Check | Loc[i] | LC | Shear Che | Loc[j] | Dir | C | phi*Pnc [lb] | phi*Pnt [| phi*Mn | phi*Mn | Ch | Eqn |
|--------|-------|------------|--------|---------|-----------|--------|---------|------|--------------|-----------|----------|----------|------|-------|
| 1 | M31 | HSS1x1x2 | .751 | 120... | 11 | .451 | 126 | v 5 | 8196.364 | 21445.2 | 572.7 | 572.7 | 4... | H3-6 |
| 2 | M4 | HSS1x1x2 | .739 | 0 | 2 | .439 | 126 | y 13 | 8196.364 | 21445.2 | 572.7 | 572.7 | 1 | H3-6 |
| 3 | M52 | HSS1x1x2 | .733 | 0 | 5 | .456 | 5.25 | v 5 | 8196.364 | 21445.2 | 572.7 | 572.7 | 1 | H3-6 |
| 4 | M1 | HSS1x1x2 | .658 | 42 | 7 | .227 | 120... | y 8 | 8196.364 | 21445.2 | 572.7 | 572.7 | 1 | H1-1a |
| 5 | M100 | PIPE 2.0 | .562 | 56 | 12 | .152 | 56 | 7 | 14916.096 | 32130 | 1871.625 | 1871.625 | 2... | H1-1b |
| 6 | M18 | PIPE 2.0 | .546 | 56 | 8 | .133 | 56 | 2 | 14916.096 | 32130 | 1871.625 | 1871.625 | 2... | H1-1b |
| 7 | M66 | HSS1x1x2 | .512 | 36.4... | 11 | .036 | 36.4... | z 11 | 10394.189 | 21445.2 | 572.7 | 572.7 | 2... | H1-1b |
| 8 | M46 | HSS1x1x2 | .494 | 36.4... | 5 | .040 | 36.4... | z 11 | 10394.189 | 21445.2 | 572.7 | 572.7 | 2... | H1-1b |
| 9 | M103 | PIPE 2.0 | .484 | 56 | 5 | .166 | 56 | 11 | 14916.096 | 32130 | 1871.625 | 1871.625 | 2... | H1-1b |
| 10 | M44 | HSS1x1x2 | .473 | 36.4... | 5 | .034 | 36.4... | z 11 | 10394.189 | 21445.2 | 572.7 | 572.7 | 2... | H1-1b |
| 11 | M45 | HSS1x1x2 | .472 | 36.4... | 5 | .043 | 36.4... | z 5 | 10394.189 | 21445.2 | 572.7 | 572.7 | 2... | H1-1b |
| 12 | M64 | HSS1x1x2 | .456 | 36.4... | 11 | .038 | 0 | z 7 | 10394.189 | 21445.2 | 572.7 | 572.7 | 2... | H1-1b |
| 13 | M19 | HSS1x1x2 | .446 | 36.4... | 5 | .043 | 0 | z 5 | 10394.189 | 21445.2 | 572.7 | 572.7 | 2... | H1-1b |
| 14 | M25 | HSS1x1x2 | .425 | 36.4... | 7 | .028 | 36.4... | z 7 | 10394.189 | 21445.2 | 572.7 | 572.7 | 2... | H1-1b |
| 15 | M65 | HSS1x1x2 | .424 | 36.4... | 5 | .038 | 0 | z 13 | 10394.189 | 21445.2 | 572.7 | 572.7 | 3... | H1-1b |
| 16 | M20 | HSS1x1x2 | .415 | 36.4... | 11 | .053 | 0 | z 5 | 10394.189 | 21445.2 | 572.7 | 572.7 | 2... | H1-1b |
| 17 | M43 | HSS1x1x2 | .414 | 36.4... | 11 | .033 | 36.4... | z 11 | 10394.189 | 21445.2 | 572.7 | 572.7 | 3... | H1-1b |
| 18 | M28 | HSS1x1x2 | .410 | 42 | 11 | .255 | 5.25 | y 2 | 8196.364 | 21445.2 | 572.7 | 572.7 | 1 | H1-1a |
| 19 | M38 | PIPE 2.0 | .407 | 62 | 10 | .142 | 62 | 13 | 14916.096 | 32130 | 1871.625 | 1871.625 | 2... | H1-1b |



Company : Infinigy Engineering, LLC
 Designer : DVA
 Job Number : 1009-Z0003-B
 Model Name : MRCTB046850

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

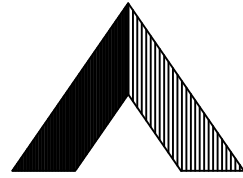
| Member | Shape | Code Check | Locfi | I C | Shear Che | Locfi | Dir | I C | phi*Pnc.Ibl | phi*Pnt.I | phi*Mn | phi*Mn | Cb | Egn |
|--------|-------|--------------|-------|---------|-----------|-------|---------|------|-------------|-----------|----------|----------|------|-------|
| 20 | M67 | HSS1x1x2 | 404 | 36.4... | 11 | .038 | 36.4... | z 11 | 10394.189 | 21445.2 | 572.7 | 572.7 | 1... | H1-1b |
| 21 | M49 | HSS1x1x2 | 402 | 42 | 5 | .242 | 5.25 | v 6 | 8196.364 | 21445.2 | 572.7 | 572.7 | 1 | H1-1a |
| 22 | M11 | PIPE 2.0 | 400 | 62 | 2 | .161 | 62 | 8 | 14916.096 | 32130 | 1871.625 | 1871.625 | 1... | H1-1b |
| 23 | M59 | PIPE 2.0 | 375 | 62 | 11 | .157 | 62 | 11 | 14916.096 | 32130 | 1871.625 | 1871.625 | 3... | H1-1b |
| 24 | M24 | HSS1x1x2 | 374 | 36.4... | 13 | .040 | 36.4... | z 13 | 10394.189 | 21445.2 | 572.7 | 572.7 | 2... | H1-1b |
| 25 | M70 | HSS1x1x2 | 325 | 0 | 10 | .016 | 0 | v 14 | 6849.365 | 21445.2 | 572.7 | 572.7 | 2... | H1-1a |
| 26 | M72 | HSS1x1x2 | 314 | 0 | 5 | .020 | 0 | y 17 | 6849.365 | 21445.2 | 572.7 | 572.7 | 1... | H1-1a |
| 27 | M63 | PIPE 2.0 | 299 | 62 | 11 | .156 | 56 | 9 | 14916.096 | 32130 | 1871.625 | 1871.625 | 4... | H1-1b |
| 28 | M42 | PIPE 2.0 | 291 | 56 | 11 | .170 | 56 | 5 | 14916.096 | 32130 | 1871.625 | 1871.625 | 3... | H1-1b |
| 29 | M106 | PIPE 2.0 | 285 | 84 | 9 | .091 | 35.4... | 6 | 8922.084 | 32130 | 1871.625 | 1871.625 | 2... | H1-1b |
| 30 | M71 | HSS1x1x2 | 278 | 45.9... | 13 | .012 | 45.9... | y 25 | 6849.365 | 21445.2 | 572.7 | 572.7 | 1... | H1-1a |
| 31 | M15 | PIPE 2.0 | 277 | 62 | 2 | .155 | 56 | 6 | 14916.096 | 32130 | 1871.625 | 1871.625 | 1... | H1-1b |
| 32 | M22 | HSS1x1x2 | 276 | 43.8... | 8 | .068 | 0 | y 4 | 7514.754 | 21445.2 | 572.7 | 572.7 | 2... | H1-1b |
| 33 | M89 | C3X6 | 272 | 0 | 5 | .154 | 7 | z 5 | 53674.507 | 57024 | 1131.878 | 4698 | 1... | H1-1b |
| 34 | M95 | C3X6 | 266 | 0 | 7 | .154 | 7 | z 8 | 53674.507 | 57024 | 1131.878 | 4698 | 1... | H1-1b |
| 35 | M92 | C3X6 | 262 | 0 | 3 | .148 | 7 | z 3 | 53674.507 | 57024 | 1131.878 | 4698 | 1... | H1-1b |
| 36 | M14 | PIPE 2.0 | 261 | 40.5... | 8 | .161 | 40.5... | 13 | 22356.067 | 32130 | 1871.625 | 1871.625 | 2... | H1-1b |
| 37 | M54 | HSS1x1x2 | 260 | 0 | 11 | .070 | 40.3... | z 5 | 4992.537 | 21445.2 | 572.7 | 572.7 | 2... | H1-1b |
| 38 | M5 | HSS1x1x2 | 253 | 53.8... | 2 | .063 | 53.8... | y 13 | 4992.537 | 21445.2 | 572.7 | 572.7 | 2... | H1-1b |
| 39 | M74 | HSS1x1x2 | 250 | 30 | 7 | .092 | 40 | z 11 | 8974.45 | 21445.2 | 572.7 | 572.7 | 1... | H1-1b |
| 40 | M33 | HSS1x1x2 | 248 | 0 | 8 | .058 | 40.3... | z 13 | 4992.537 | 21445.2 | 572.7 | 572.7 | 2... | H1-1b |
| 41 | M105 | PIPE 2.0 | 247 | 84 | 6 | .084 | 6.562 | 11 | 8922.084 | 32130 | 1871.625 | 1871.625 | 3... | H1-1b |
| 42 | M41 | PIPE 2.0 | 247 | 45.3... | 4 | .207 | 40.5... | 4 | 22356.067 | 32130 | 1871.625 | 1871.625 | 3... | H1-1b |
| 43 | M73 | HSS1x1x2 | 241 | 40 | 11 | .070 | 0 | v 5 | 8974.45 | 21445.2 | 572.7 | 572.7 | 1... | H1-1b |
| 44 | M21 | HSS1x1x2 | 239 | 0 | 10 | .077 | 0 | y 10 | 7514.754 | 21445.2 | 572.7 | 572.7 | 2... | H1-1b |
| 45 | M76 | HSS1x1x2 | 237 | 40 | 7 | .080 | 0 | z 5 | 8974.45 | 21445.2 | 572.7 | 572.7 | 1... | H1-1b |
| 46 | M32 | HSS1x1x2 | 233 | 0 | 5 | .050 | 53.8... | y 5 | 4992.537 | 21445.2 | 572.7 | 572.7 | 1... | H1-1b |
| 47 | M47 | HSS1x1x2 | 232 | 0 | 11 | .059 | 0 | z 5 | 4934.182 | 21445.2 | 572.7 | 572.7 | 1... | H1-1b |
| 48 | M68 | HSS1x1x2 | 230 | 0 | 5 | .050 | 0 | z 5 | 4934.182 | 21445.2 | 572.7 | 572.7 | 1... | H1-1b |
| 49 | M69 | HSS1x1x2 | 224 | 0 | 5 | .056 | 0 | z 11 | 4934.182 | 21445.2 | 572.7 | 572.7 | 1... | H1-1b |
| 50 | M75 | HSS1x1x2 | 224 | 0 | 3 | .073 | 0 | y 5 | 8974.45 | 21445.2 | 572.7 | 572.7 | 1... | H1-1b |
| 51 | M48 | HSS1x1x2 | 224 | 0 | 11 | .052 | 0 | z 11 | 4934.182 | 21445.2 | 572.7 | 572.7 | 1... | H1-1b |
| 52 | M53 | HSS1x1x2 | 222 | 0 | 3 | .047 | 40.3... | z 8 | 4992.537 | 21445.2 | 572.7 | 572.7 | 2... | H1-1b |
| 53 | M104 | PIPE 2.0 | 218 | 84 | 3 | .104 | 6.563 | 8 | 8922.084 | 32130 | 1871.625 | 1871.625 | 2... | H1-1b |
| 54 | M6 | HSS1x1x2 | 218 | 53.8... | 7 | .045 | 13.4... | y 4 | 4992.537 | 21445.2 | 572.7 | 572.7 | 2... | H1-1b |
| 55 | M26 | HSS1x1x2 | 204 | 0 | 11 | .045 | 54.1... | z 11 | 4934.182 | 21445.2 | 572.7 | 572.7 | 2... | H1-1b |
| 56 | M90 | C3X6 | 202 | 0 | 5 | .161 | 7 | z 5 | 53674.507 | 57024 | 1131.878 | 4698 | 1... | H1-1b |
| 57 | M96 | C3X6 | 198 | 0 | 7 | .159 | 7 | z 7 | 53674.507 | 57024 | 1131.878 | 4698 | 1... | H1-1b |
| 58 | M93 | C3X6 | 195 | 0 | 3 | .155 | 7 | z 3 | 53674.507 | 57024 | 1131.878 | 4698 | 1... | H1-1b |
| 59 | M62 | PIPE 2.0 | 192 | 45.3... | 8 | .150 | 40.5... | 8 | 22356.067 | 32130 | 1871.625 | 1871.625 | 2... | H1-1b |
| 60 | M27 | HSS1x1x2 | 172 | 0 | 7 | .044 | 54.1... | z 11 | 4934.182 | 21445.2 | 572.7 | 572.7 | 1... | H1-1b |
| 61 | M51 | HSS1.5x1.5x4 | 118 | 84 | 7 | .034 | 84 | v 7 | 33391.24 | 51750 | 2048.438 | 2048.438 | 1 | H1-1b |
| 62 | M30 | HSS1.5x1.5x4 | 116 | 84 | 9 | .032 | 42 | y 9 | 33391.24 | 51750 | 2048.438 | 2048.438 | 1 | H1-1b |
| 63 | M50 | HSS1.5x1.5x4 | 109 | 14.4... | 5 | .042 | 111.... | v 3 | 33391.24 | 51750 | 2048.438 | 2048.438 | 1 | H1-1b |
| 64 | M29 | HSS1.5x1.5x4 | 104 | 111.... | 11 | .045 | 0 | y 8 | 33391.24 | 51750 | 2048.438 | 2048.438 | 1 | H1-1b |
| 65 | M2 | HSS1.5x1.5x4 | 093 | 111.... | 7 | .040 | 0 | v 4 | 33391.24 | 51750 | 2048.438 | 2048.438 | 1 | H1-1b |
| 66 | M3 | HSS1.5x1.5x4 | 072 | 45.9... | 6 | .033 | 32.8... | z 6 | 33391.24 | 51750 | 2048.438 | 2048.438 | 1 | H1-1b |
| 67 | M23 | HSS1x1x2 | 059 | 22.2 | 11 | .018 | 0 | v 5 | 16398.246 | 21445.2 | 572.7 | 572.7 | 2... | H1-1b |
| 68 | M97 | L4X4X4 | 030 | 45.5 | 62 | .013 | 6.5 | y 13 | 46128.587 | 62532 | 3137.597 | 6714.886 | 1... | H2-1 |
| 69 | M94 | L4X4X4 | 030 | 6.5 | 15 | .010 | 6.5 | z 3 | 46128.587 | 62532 | 3137.597 | 6695.864 | 1... | H2-1 |
| 70 | M91 | L4X4X4 | 027 | 6.5 | 6 | .013 | 6.5 | y 5 | 46128.587 | 62532 | 3137.597 | 6684.654 | 1... | H2-1 |
| 71 | M108 | L4X4X4 | 008 | 6.07 | 6 | .038 | 12.1... | v 12 | 56348.051 | 62532 | 3137.597 | 6714.886 | 1... | H2-1 |
| 72 | M109 | L4X4X4 | 008 | 6.07 | 2 | .038 | 12.1... | y 8 | 56348.051 | 62532 | 3137.597 | 6714.886 | 1... | H2-1 |
| 73 | M107 | L4X4X4 | 004 | 6.07 | 7 | .030 | 12.1... | y 11 | 56348.051 | 62532 | 3137.597 | 6714.886 | 1... | H2-1 |

MOUNT MODIFICATION DRAWINGS

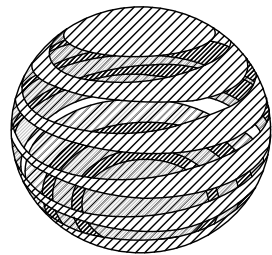
PREPARED BY:

INFINIGY

FROM ZERO TO INFINIGY
the solutions are endless



AMERICAN TOWER

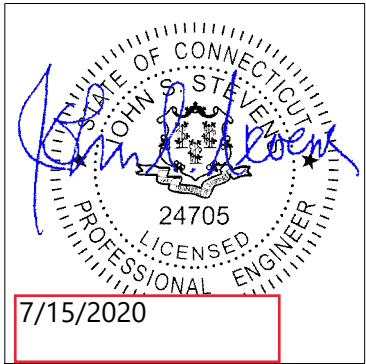


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302498
PLAINFIELD CT 6
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PLAINFIELD, CT 06374

07/13/20

INFINIGY JOB # 1009-Z0003-B



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

NOTE:
THESE DOCUMENTS ARE CONFIDENTIAL AND ARE THE
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GENERAL NOTES:

1. THESE DOCUMENTS WERE DESIGNED IN ACCORDANCE WITH THE LATEST VERSION OF APPLICABLE LOCAL/STATE/COUNTY/CITY BUILDING CODES, AS WELL AS ANSI/TIA-222 STANDARD, AWWA-D100 STANDARD, NDS, NEC, MSJC, AND/OR THE LATEST VERSION OF THE INTERNATIONAL BUILDING CODE, UNLESS NOTED OTHERWISE IN THE CORRESPONDING STRUCTURAL REPORT.
2. ALL CONSTRUCTION METHODS SHOULD FOLLOW STANDARDS OF GOOD CONSTRUCTION PRACTICE.
3. ALL WORK INDICATED ON THESE DRAWINGS SHALL BE PERFORMED BY QUALIFIED CONTRACTORS EXPERIENCED IN SIMILAR CONSTRUCTION.
4. ALL NEW WORK SHALL ACCOMMODATE EXISTING CONDITIONS. IF OBSTRUCTIONS ARE FOUND, CONTRACTOR SHALL NOTIFY ENGINEER OF RECORD PRIOR TO CONTINUING WORK.
5. ANY CHANGES OR ADDITIONS MUST CONFORM TO THE REQUIREMENTS OF THESE NOTES AND SPECIFICATIONS, AND SHOULD BE SIMILAR TO THOSE SHOWN. ALL CHANGES OR ADDITIONS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL PRIOR TO FABRICATION AND/OR CONSTRUCTION.
6. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND EXECUTION OF ALL MISCELLANEOUS SHORING, BRACING, TEMPORARY SUPPORTS, ETC. NECESSARY TO PROVIDE A COMPLETE AND STABLE STRUCTURE DURING CONSTRUCTION. TIA-1019-A-2011 IS AN APPROPRIATE REFERENCE FOR THOSE DESIGNS MEETING TIA STANDARDS. THE ENGINEER OF RECORD MAY PROVIDE FORMAL RIGGING PLANS AT THE REQUEST AND EXPENSE OF THE CONTRACTOR.
7. INSTALLATION SHALL NOT INTERFERE NOR DENY ADEQUATE ACCESS TO OR FROM ANY EXISTING OR PROPOSED OPERATIONAL AND SAFETY EQUIPMENT.
8. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO ANY FABRICATION. CONTACT INFINIGY ENGINEERING IF ANY DISCREPANCIES EXIST.

STEEL CONSTRUCTION NOTES:

1. STRUCTURAL STEEL SHALL CONFORM TO THE AISC MANUAL OF STEEL CONSTRUCTION 14TH EDITION, FOR THE DESIGN AND FABRICATION OF STEEL COMPONENTS.
2. ALL FIELD CUT SURFACES, FIELD DRILLED HOLES, AND GROUND SURFACES WHERE EXISTING PAINT OR GALVANIZATION REMOVAL WAS REQUIRED SHALL BE REPAIRED WITH (2) BRUSHED COATS OF ZRC GALVALITE COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURERS' RECOMMENDATIONS.
3. ALL FIELD DRILLED HOLES TO BE USED FOR FIELD BOLTING INSTALLATION SHALL BE STANDARD HOLES, AS DEFINED BY AISC, UNLESS NOTED OTHERWISE.
4. ALL EXTERIOR STEEL WORK SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A123.
5. ALL STEEL MEMBERS AND CONNECTIONS SHALL MEET THE FOLLOWING GRADES:
 - ANGLES, CHANNELS, PLATES AND BARS TO BE A36. Fy=36 KSI, U.N.O.
 - W SHAPES TO BE A992. Fy=50 KSI, U.N.O.
 - RECTANGULAR HSS TO BE A500, GRADE B. Fy=46 KSI, U.N.O.
 - ROUND HSS TO BE A500, GRADE B. Fy=42 KSI, U.N.O.
 - STEEL PIPE TO BE A53, GRADE B. Fy=35 KSI, U.N.O.
 - BOLTS TO BE A325-X. Fu=120 KSI, U.N.O.
 - U-BOLTS AND LAG SCREWS TO BE A307 GR A. Fu=60 KSI, U.N.O.
6. ALL WELDING SHALL BE DONE USING E70XX ELECTRODES, U.N.O.
7. ALL WELDING SHALL CONFORM TO AISC AND AWS D1.1 LATEST EDITION.
8. ALL HILTI ANCHORS TO BE CARBON STEEL, U.N.O.
 - MECHANICAL ANCHORS: KWIK BOLT-TZ, U.N.O.
 - CMU BLOCK ANCHORS: ADHESIVE - HY120, U.N.O.
 - CONCRETE ANCHORS: ADHESIVE - HY150, U.N.O.
 - CONCRETE REBAR: ADHESIVE - RE500, U.N.O.
9. ALL STUDS TO BE NELSON CAPACITOR DISCHARGE 1/4"-20 LOW CARBON STEEL COPPER-FLASH AT 55 KSI ULT/50 KSI YIELD, U.N.O.
10. BOLTS SHALL BE TIGHTENED TO A "SNUG TIGHT" CONDITION AS DEFINED BY AISC.
11. MINIMUM EDGE DISTANCES SHALL CONFORM TO AISC TABLE J3.4.
12. REMOVAL/REPLACEMENT OF STRUCTURAL MEMBERS SHALL BE DONE ONE MEMBER AT A TIME. CONTRACTOR IS RESPONSIBLE FOR ENSURING THE STRUCTURAL INTEGRITY OF THE STRUCTURE DURING ALL PHASES OF CONSTRUCTION.

CONCRETE CONSTRUCTION NOTES:

1. CONCRETE TO BE 4000 PSI @ 28 DAYS. REINFORCING BAR TO CONFORM TO ASTM A615 GRADE 60 SPECIFICATIONS. CONCRETE INSTALLATION TO CONFORM TO ACI-318 BUILDING REQUIREMENTS FOR REINFORCED CONCRETE. ALL CONCRETE TO BE PLACED AGAINST UNDISTURBED EARTH FREE OF WATER AND ALL FOREIGN OBJECTS AND MATERIALS. A MINIMUM OF THREE INCHES OF CONCRETE SHALL COVER ALL REINFORCEMENT. WELDING OF REBAR IS NOT PERMITTED.
2. EXISTING CONCRETE SURFACES THAT ARE TO BE IN CONTACT WITH NEW PROPOSED CONCRETE SHOULD BE WIRE BRUSHED CLEAN AND TREATED WITH APPROPRIATE MECHANICAL SCRATCH COAT AND REPAIR MATERIALS OR APPROPRIATE CHEMICAL METHODS SUCH AS THE APPLICATION OF A BONDING AGENT, EX. SAKRETE OR EQUIVALENT, TO ENSURE A QUALITY BOND BETWEEN EXISTING AND PROPOSED CONCRETE SURFACES.

FIBER REINFORCED POLYMER (FRP) NOTES:

1. FRP PLATES, SHAPES, BOLTS AND NUTS (STUD/NUT ASSEMBLIES) SHALL CONFORM TO ASTM D638, 695, 790. PLATES AND SHAPES TO BE Fy = 5.35 KSI LW (SAFETY FACTOR OF 8), .945 KSI CW (SAFETY FACTOR OF 8) MIN.
2. IF FIELD FABRICATION IS REQUIRED, ALL CUT EDGES AND DRILLED HOLES TO BE SEALED USING VINYL ESTER SEALING KIT SUPPLIED BY THE MANUFACTURER.
3. ALL FASTENERS TO BE 1/2" DIA FRP THREADED ROD WITH FIBER REINFORCED THERMOPLASTIC NUT, SPACED AT 12 INCHES ON CENTER MAXIMUM, U.N.O., FOR PANELS AND AS DESIGNED FOR STRUCTURAL MEMBERS.
4. THE COLOR AND SURFACE PATTERN OF EXPOSED FRP PANELS SHALL MATCH THE EXTERIOR OF THE EXISTING BUILDING, U.N.O.
5. STUD/NUT ASSEMBLIES SHOULD BE LUBRICATED FOR INSTALLATION
6. ENSURE BEARING SURFACES OF THE NUTS ARE PARALLEL TO THE SURFACES BEING FASTENED.
7. TORQUE BOLTS ACCORDING TO THE FOLLOWING TABLE:

| INSTALLATION TORQUE TABLE | | |
|---------------------------|--------------------------|-----------------------------------------|
| SIZE | ULTIMATE TORQUE STRENGTH | RECOMMENDED MAXIMUM INSTALLATION TORQUE |
| 3/8-16 UNC | 8 FT-LBS | 4 FT-LBS |
| 1/2-13 UNC | 18 FT-LBS | 8 FT-LBS |
| 5/8-11 UNC | 35 FT-LBS | 16 FT-LBS |
| 3/4-10 UNC | 50 FT-LBS | 24 FT-LBS |
| 1-8 UNC | 110 FT-LBS | 50 FT-LBS |

8. WHEN TIGHTENING FRP STUD/NUT ASSEMBLIES, WRENCHES MUST MAKE FULL CONTACT WITH ALL NUT EDGES. A STANDARD SIX POINT SOCKET IS RECOMMENDED.
9. STUD/NUT ASSEMBLIES SHOULD BE BONDED BY APPLYING BONDING AGENT TO ENTIRE NUT AND EXPOSED STUD.
10. ALL FRP MATERIALS TO BE PROVIDED BY FIBERGRATE COMPOSITE STRUCTURES, DALLAS TX, OR APPROVED EQUAL.
11. ALL FRP SHAPES TO BE DYNAFORM PULTRUDED STRUCTURAL SHAPES.
12. ALL FRP PLATES TO BE FIBERPLATE MOLDED FRP PLATE.
13. ALL FRP PANELS TO BE FIBERPLATE CLADDING PANEL.
14. EACH FRP PANEL TO BE IDENTIFIED WITH LARR#25536 AND FIBERGRATE COMPOSITE STRUCTURAL LABEL.
15. FRP MATERIAL TO BE CLASSIFIED AS CC1 OR BETTER, AND HAVE MAXIMUM FLAME SPREAD OF 50.
16. ALL DESIGN AND CONSTRUCTION TO BE COMPLETED IN ACCORDANCE WITH LOS ANGELES RESEARCH REPORT RR25536, DATED FEBRUARY 1, 2016.
17. SPECIAL INSPECTIONS MUST BE PROVIDED FOR ALL FRP INSTALLMENTS. SEE SPECIAL INSPECTION SECTION, THIS SHEET.

| RATIO OF EDGE DISTANCE TO FRP FASTENER DIAMETER | | |
|-------------------------------------------------|---------|-------------|
| | RANGE | RECOMMENDED |
| EDGE DISTANCE - CL* BOLT TO END | 2.0-4.0 | 3.0 |
| EDGE DISTANCE - CL* BOLT TO SIDE | 1.5-3.5 | 2.5 |
| BOLT PITCH - CL* TO CL* | 4.0-5.0 | 5.0 |

WOOD CONSTRUCTION NOTES:

1. ALL EXISTING WOOD SHAPES ARE ASSUMED TO BE DOUGLAS FIR-LARCH WITH A REFERENCE DESIGN BENDING VALUE OF 1000 PSI MIN.
2. ALL PROPOSED WOOD SHAPES ARE TO BE DOUGLAS FIR-LARCH WITH A REFERENCE DESIGN BENDING VALUE OF 1000 PSI MIN. U.N.O.
3. ALL EXISTING AND PROPOSED GLUED LAMINATED TIMBERS ARE TO BE 24F-1.8C DOUGLAS FIR BALANCED WITH A REFERENCE DESIGN BENDING VALUE OF 2400 PSI MIN. U.N.O.

MASONRY CONSTRUCTION NOTES:

1. ALL BRICK TO BE 1500 PSI MIN. REINFORCING BAR (IF APPLICABLE) TO CONFORM TO ASTM A615 GRADE 60 SPECIFICATIONS. ALL MORTAR TO BE 2000 PSI MIN.
 - FOR INTERIOR/ABOVE GRADE APPLICATIONS TYPE N MORTAR HAVING MINIMUM MODULUS OF RUPTURE OF 100 PSI SHALL BE USED. FOR EXTERIOR/BELOW GRADE APPLICATIONS TYPE M OR S MORTAR HAVING A MINIMUM MODULUS OF RUPTURE OF 133 PSI.
 - BRICK AND MORTAR INSTALLATION TO CONFORM TO MSJC BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES.
2. ALL CMU TO BE 1500 PSI MIN. REINFORCING BAR (IF APPLICABLE) TO CONFORM TO ASTM A615 GRADE 60 SPECIFICATIONS. ALL MORTAR TO BE 2000 PSI MIN.
 - FOR INTERIOR/ABOVE GRADE APPLICATIONS, TYPE N MORTAR HAVING MINIMUM MODULUS OF RUPTURE OF 64 PSI SHALL BE USED FOR UNGROUTED BLOCKS, AND 158 PSI FOR FULLY GROUTED BLOCKS.
 - FOR EXTERIOR/BELOW GRADE APPLICATIONS TYPE M OR S MORTAR HAVING A MINIMUM MODULUS OF RUPTURE OF 84 PSI SHALL BE USED FOR UNGROUTED BLOCKS, AND 163 PSI FOR FULLY GROUTED BLOCKS.
 - BRICK AND MORTAR INSTALLATION TO CONFORM TO MSJC BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES.

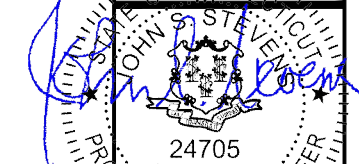
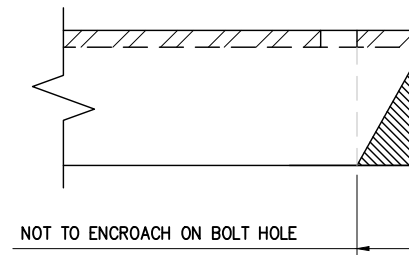
TOWER PLUMB & TENSION NOTES:

1. PLUMB AND TENSION TOWER UPON COMPLETION OF STRUCTURAL MODIFICATIONS DETAILED IN THESE DRAWINGS.
2. RETENSIONING OF EXISTING GUY WIRES SHALL BE PERFORMED AT A TIME WHEN THE WIND VELOCITY IS LESS THAN 10 MPH AT GROUND LEVEL AND WITH NO ICE ON THE STRUCTURE AND GUY WIRES.
3. PLUMB THE TOWER WHILE RETENSIONING THE EXISTING GUY WIRES. THE HORIZONTAL DISTANCE BETWEEN THE VERTICAL CENTERLINES AT ANY TWO ELEVATIONS SHALL NOT EXCEED 0.25% OF THE VERTICAL DISTANCE BETWEEN TWO ELEVATIONS FOR LATTICED STRUCTURES.
4. THE TWIST BETWEEN ANY TWO ELEVATIONS THROUGHOUT THE HEIGHT OF A LATTICE STRUCTURE SHALL NOT EXCEED 0.5 DEGREES IN 10 FEET. THE MAXIMUM TWIST OVER THE LATTICE STRUCTURE HEIGHT SHALL NOT EXCEED 5 DEGREES.

SPECIAL INSPECTIONS NOTES:

1. A QUALIFIED INDEPENDENT TESTING LABORATORY, EMPLOYED BY THE OWNER AND APPROVED BY THE JURISDICTION, SHALL PERFORM INSPECTION AND TESTING IN ACCORDANCE WITH THE THE GOVERNING BUILDING CODE, APPLICABLE SECTION(S) AS REQUIRED BY PROJECT SPECIFICATIONS FOR THE FOLLOWING CONSTRUCTION WORK:
 - a. STRUCTURAL WELDING (CONTINUOUS INSPECTION OF FIELD WELDS ONLY).
 - b. HIGH STRENGTH BOLTS (PERIODIC INSPECTION OF A325 AND/OR A490 BOLTS) TO BE TIGHTENED PER "TURN-OF-THE-NUT" METHOD.
 - c. MECHANICAL AND EPOXIED ANCHORAGES.
 - d. FIBER REINFORCED POLYMER.
 - THE SPECIAL INSPECTOR MUST VERIFY THAT THE FRP MATERIAL SPECIFIED ON THE APPROVED DESIGN DOCUMENTS IS BEING INSTALLED.
 - THE SPECIAL INSPECTOR MUST VERIFY THAT ALL CUT EDGES AND DRILLED HOLES ARE PROPERLY SEALED USING A VINYL ESTER SEALING KIT SUPPLIED BY THE MANUFACTURER.
 - THE SPECIAL INSPECTOR MUST VERIFY THAT THE STRUCTURE IS BUILT IN ACCORDANCE WITH THE APPROVED DESIGN DOCUMENTS.
2. THE INSPECTION AGENCY SHALL SUBMIT INSPECTION AND TEST REPORTS TO THE BUILDING DEPARTMENT, THE ENGINEER OF RECORD, AND THE OWNER UNLESS THE FABRICATOR IS APPROVED BY THE BUILDING OFFICIAL TO PERFORM WORK WITHOUT THE SPECIAL INSPECTIONS.

MAXIMUM ALLOWABLE ANGLE CLIP



PROFESSIONAL ENGINEER
JOHN S. STEVENTON
LICENSE NO. 24705
EXPIRES 12/12/2020

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Drawn: WJD
Designed: BD
Checked: BD

Project Number: 1009-Z0003-B

Project Title:
PLAINFIELD CT 6

302498
SPAULDING ROAD
PLAINFIELD, CT 06374

Prepared For:



Drawing Title

GENERAL NOTES

Drawing Number

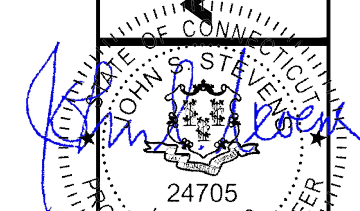
S-2

NOTES:

1. VARIOUS EXISTING CONDITIONS AND PROPOSED MODIFICATIONS NOT SHOWN FOR CLARITY.
2. ALL DESIGNATED PARTS ARE TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
3. CONTRACTOR TO FIELD VERIFY REQUIRED LENGTHS OF ALL PROPOSED REINFORCEMENT KIT PIPES AND TRIM & DRILL ON SITE AS NECESSARY.

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AMERICAN TOWER CORPORATION



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Project Number: 1009-Z0003-B

Project Title: PLAINFIELD CT 6

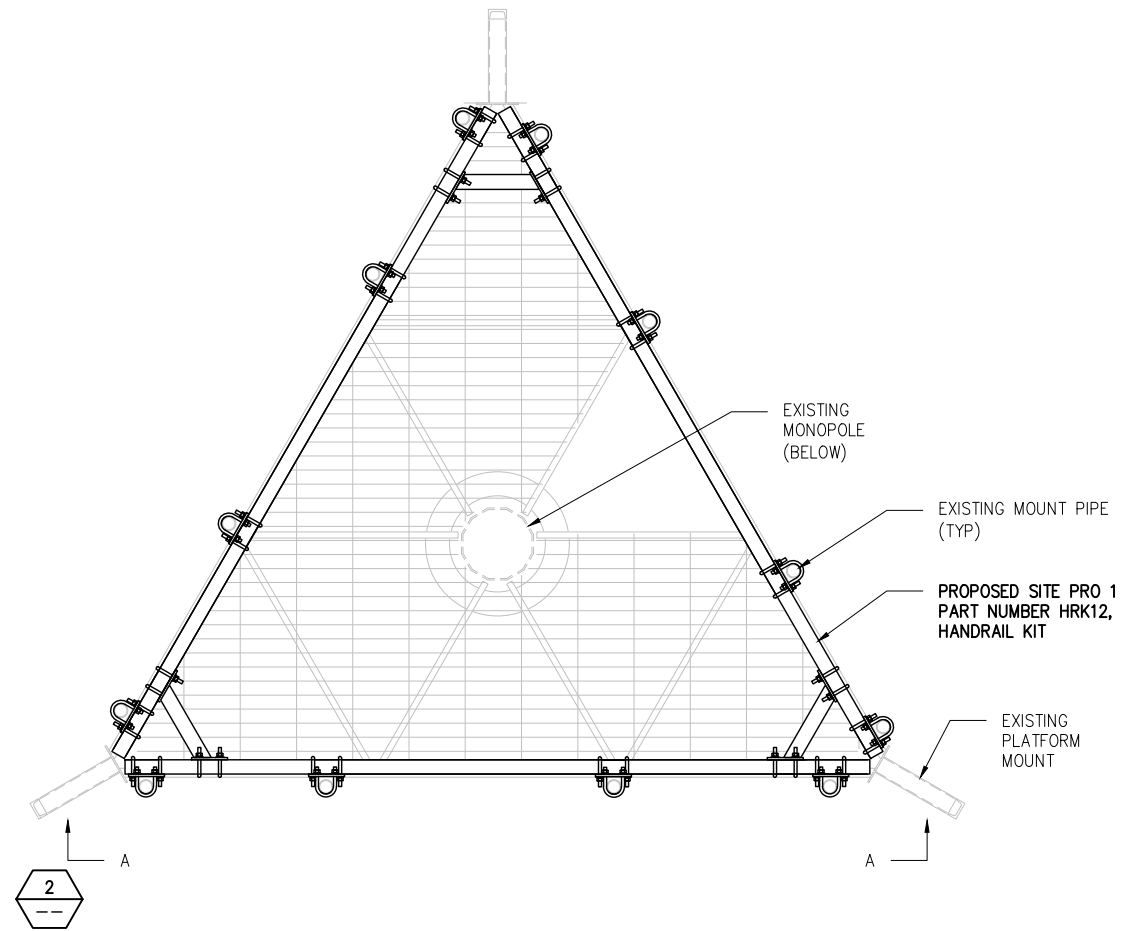
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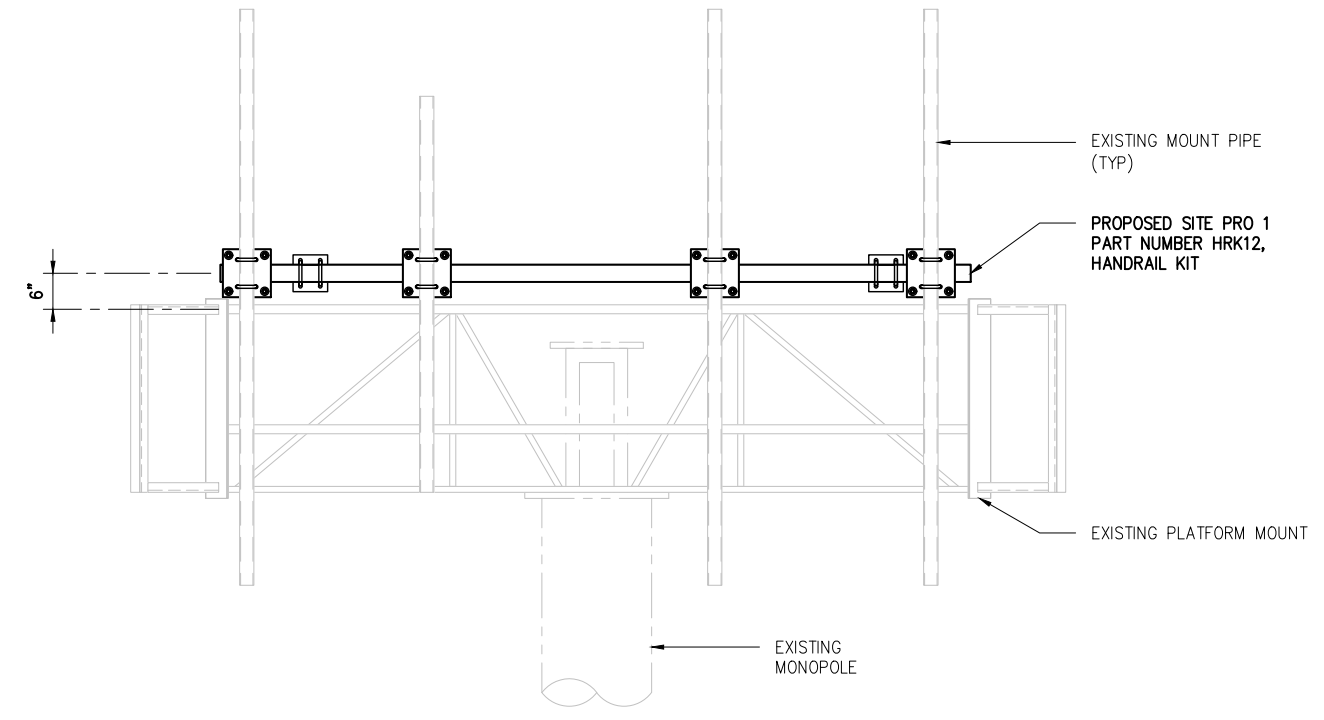


Drawing Title
MOUNT MODIFICATION DETAILS

Drawing Number
S-3



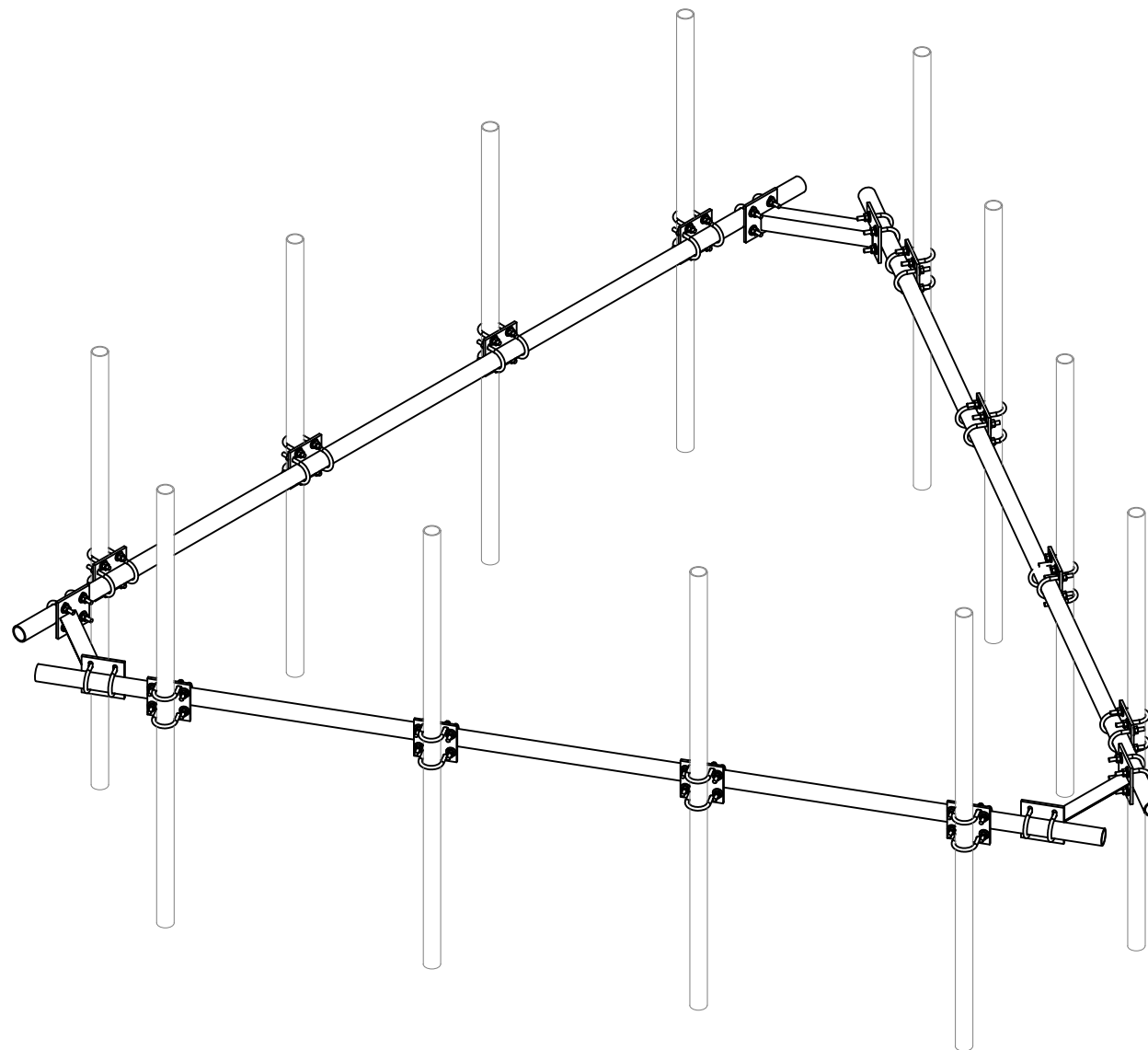
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2 SECTION A-A
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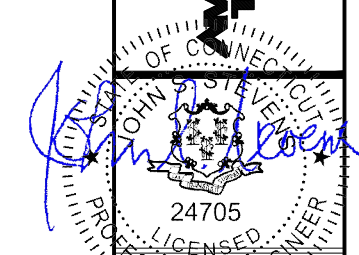
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3. CONTRACTOR TO FIELD VERIFY REQUIRED LENGTHS OF ALL PROPOSED REINFORCEMENT KIT PIPES AND TRIM & DRILL ON SITE AS NECESSARY.



3 SITE PRO 1 P/N HRK12
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 ELKBRIDGE, MD 21075

AMERICAN TOWER CORPORATION



PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 36339 EXP. 12/12/2020

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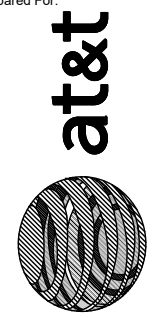
Drawn: WJD
 Designed: BD
 Checked: BD

Project Number: 1009-Z0003-B

Project Title:
PLAINFIELD CT 6

302498
 SPAULDING ROAD
 PLAINFIELD, CT 06374

Prepared For:



Drawing Title
REQUIRED PARTS

Drawing Number
S-4

Mount Analysis and Mapping Checklist

| Mount Detail | | Inspector | | |
|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|-----------|-------------------------|
| Mount Type | Platform | Infinigy | | |
| Mount Model Number | N/A | Brad Davenport | | |
| If RT, then how is it attached | | (518) 690-0792 | | |
| If WT, then how is it attached | | Bdavenport@infinigy.com | | |
| Mount Mapping Detail | | | | |
| Material condition (discoloration, cracks, pitting) | Good | | | |
| Mfg. drawing, cutsheet, spec. available? | No | | | |
| Date of mount mapping | 6/22/2020 | | | |
| Searched prior OOM for material? | Yes | | | |
| Photos of installation available? | Yes | | | |
| Original tower drawings show mounts? | No | | | |
| Searched for previous mapping? | No | | | |
| Is latest mod design (dwgs) available? | No | | | |
| Is the latest structural analysis available? | Yes | | | |
| Project Detail | | Site Information | | |
| Market | Connecticut | Original Lease Date | | |
| PACE Project ID | N/A | FA Code | | |
| Site Name | Plainfield CT 6 | Tower Type | Monopole | |
| City, State | Plainfield, CT | Tower Height (Ft) | 150 | |
| RFDS Version Number | | AT&T Rad Center # 1 | 154 | |
| Initiative (list mult., if applicable) | | AT&T Rad Center # 2 | | |
| Tower Owner | American Tower Corporation | | | |
| SA Vendor | | | | |
| A&E firm (for structural analysis) | American Tower Corporation | | | |
| A&E firm (for mapping, if different) | Infinigy | | | |
| Last amendment date or last site visit | 6/22/2020 | | | |
| Measurements and Deliverables on sketches | | | | |
| Pipe / Angle dimensions and lengths | 2" STD. Pipes 8'-0" & 5'-6" long | | | |
| bolt diameters and lengths | | | | |
| U-Bolt diameters and lengths | | | | |
| Steel Grade if indicated | | | | |
| welds :length and sizes | | | | |
| appurtenance relative locations | | | | |
| Grounding Condition | | | | |
| Equipment Detail Alpha Sector | | | | |
| | 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 |
| Antennas | CCI HPA65R-BU8A CCI OPA65R-BU8D CCI DMP65R-BU8D Powerwave 7770.00 | 0 | 0 | P1, P2, P3, P4 |
| MW | 0 | 0 | 0 | 0 |
| RRU | Ericsson RRU5 4478 B14, Ericsson RRU5 4449 B5/B12, Ericsson RRU5 4415 B30, Ericsson RRU5 8843 B2/B66A Powerwave LGP21401, Powerwave | 0 | 0 | 0 |
| TMA | LGP21901 | 0 | 0 | 0 |
| Coax | 0 | 0 | 0 | 0 |
| RET (not imbedded in antenna) | 0 | 0 | 0 | 0 |
| DC Cable | 2" conduit | 0 | 0 | 0 |
| Fiber Cable | 1 5/8" coax | 0 | 0 | 0 |
| Squid | Raycap DC6-48-60-18-8F | 0 | 0 | 0 |
| Equipment Detail Beta Sector | | | | |
| | 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 |
| Antennas | CCI HPA65R-BU8A CCI OPA65R-BU8D CCI DMP65R-BU8D Powerwave 7770.00 | 0 | 0 | P1, P2, P3, P4 |
| MW | 0 | 0 | 0 | 0 |
| RRU | Ericsson RRU5 4478 B14, Ericsson RRU5 4449 B5/B12, Ericsson RRU5 4415 B30, Ericsson RRU5 8843 B2/B66A Powerwave LGP21401, Powerwave | 0 | 0 | 0 |
| TMA | LGP21901 | 0 | 0 | 0 |
| Coax | 0 | 0 | 0 | 0 |
| RET (not imbedded in antenna) | 0 | 0 | 0 | 0 |
| DC Cable | 2" conduit | 0 | 0 | 0 |
| Fiber Cable | 0 | 0 | 0 | 0 |
| Squid | Raycap DC6-48-60-18-8F | 0 | 0 | 0 |
| Equipment Detail Gamma Sector | | | | |
| | 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 |
| Antennas | CCI HPA65R-BU8A CCI OPA65R-BU8D CCI DMP65R-BU8D Powerwave 7770.00 | 0 | 0 | P1, P2, P3, P4 |
| MW | 0 | 0 | 0 | 0 |
| RRU | Ericsson RRU5 4478 B14, Ericsson RRU5 4449 B5/B12, Ericsson RRU5 4415 B30, Ericsson RRU5 8843 B2/B66A Powerwave LGP21401, Powerwave | 0 | 0 | 0 |
| TMA | LGP21901 | 0 | 0 | 0 |
| Coax | 0 | 0 | 0 | 0 |
| RET (not imbedded in antenna) | 0 | 0 | 0 | 0 |
| DC Cable | 2" conduit | 0 | 0 | 0 |
| Fiber Cable | 0 | 0 | 0 | 0 |
| Squid | Raycap DC6-48-60-18-8F | 0 | 0 | 0 |
| Comments | | | | |
| | | | | |

EXHIBIT 6



**Lawrence Behr
Associates** INC
www.lbagroup.com

NIER Study Report

SITE NAME:

302498 Plainfield CT 6

LOCATION:

Plainfield, Connecticut

COMPANY:

**American Tower Corporation
Woburn, Massachusetts**

July 14th, 2020

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DISCLAIMER NOTICE

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LAWRENCE BEHR ASSOCIATES, INC.
GREENVILLE, NORTH CAROLINA

NIER STUDY REPORT

302498 Plainfield CT 6

Plainfield, Connecticut

INTRODUCTION

Lawrence Behr Associates, Inc. (LBA) has been retained by American Tower Corporation (ATC) of Woburn, Massachusetts to evaluate the RF emissions of an existing tower at this location.

SITE AND FACILITY CONSIDERATIONS

Site 302498 Plainfield CT 6 is located at 45 Spaulding Road in Plainfield, Connecticut at coordinates 41.6748, -71.87909. The support structure is a 155' tall monopole. The installation consists of two antenna levels with radiation centers of 117' and 155' above ground level. All antennae will have a radiation center as described above. All data used in this study was provided by one or more of the following sources:

1. ATC furnished data
2. Compiled from carrier and manufacturer standard configurations
3. Empirical data collected by LBA

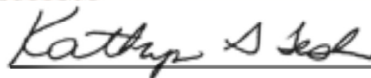
A topographic map of the study area is located in Appendix 1. A satellite view of the study area is located in Appendix 2.

The load list may be seen in Appendix 3.

POWER DENSITY CALCULATIONS

Graphs of the power density at different distances from the transmitter, compared to FCC MPE general population and occupational limits, may be seen in Appendix 4. These limits are based upon the Information Relating to MPE Standards found in Appendix 6. Study methodology may be seen in Appendix 7, which describes the Non-Ionizing Radiation Prediction Models. Approximate radiation patterns may be found in Appendix 5. This site **IS** in compliance with FCC OET-65 MPE limits.

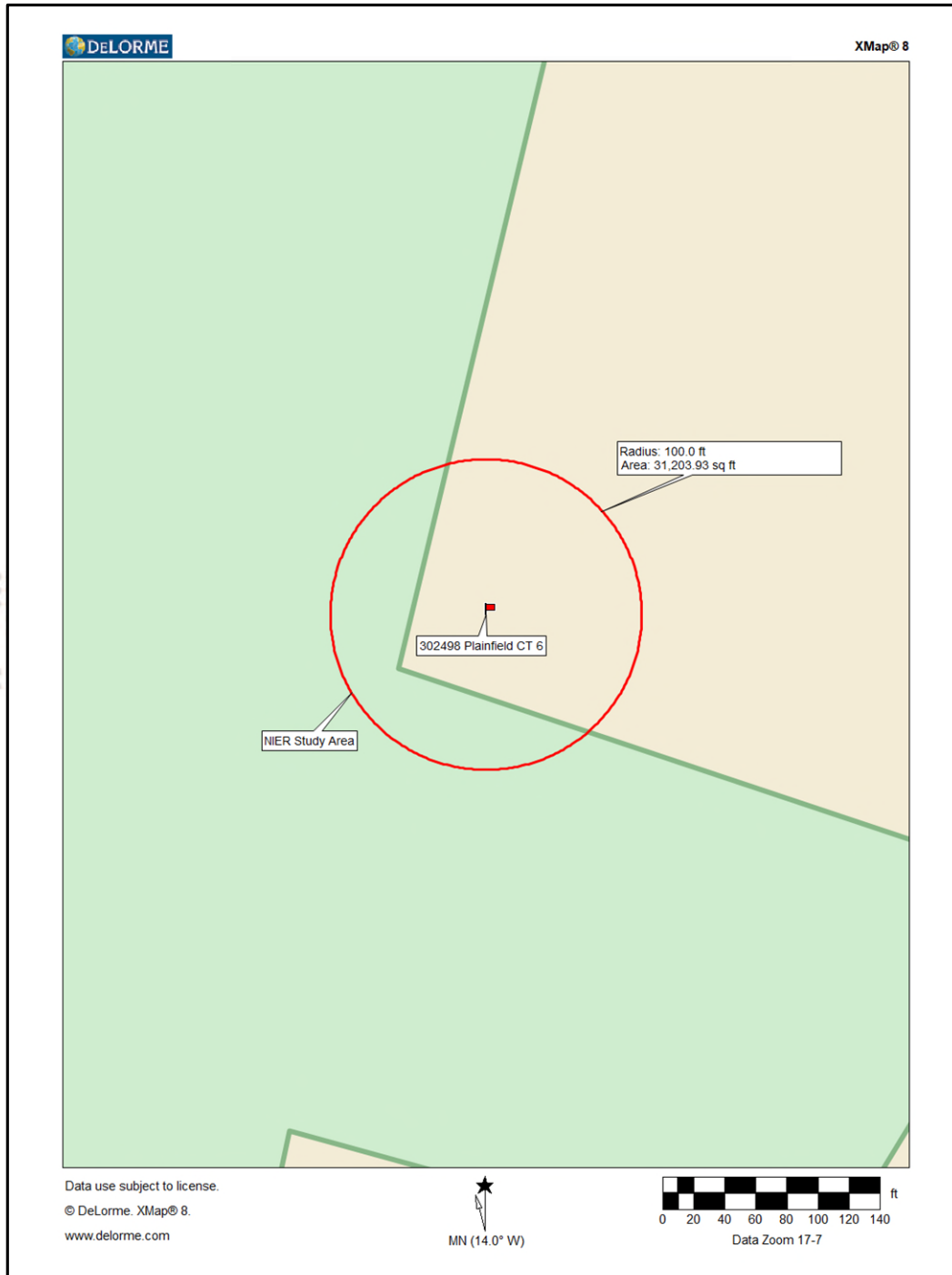
July 14th, 2020



Kathryn G. Tesh
Wireless Services Manager

APPENDIX 1

Topographic Map



APPENDIX 2

Satellite Photo



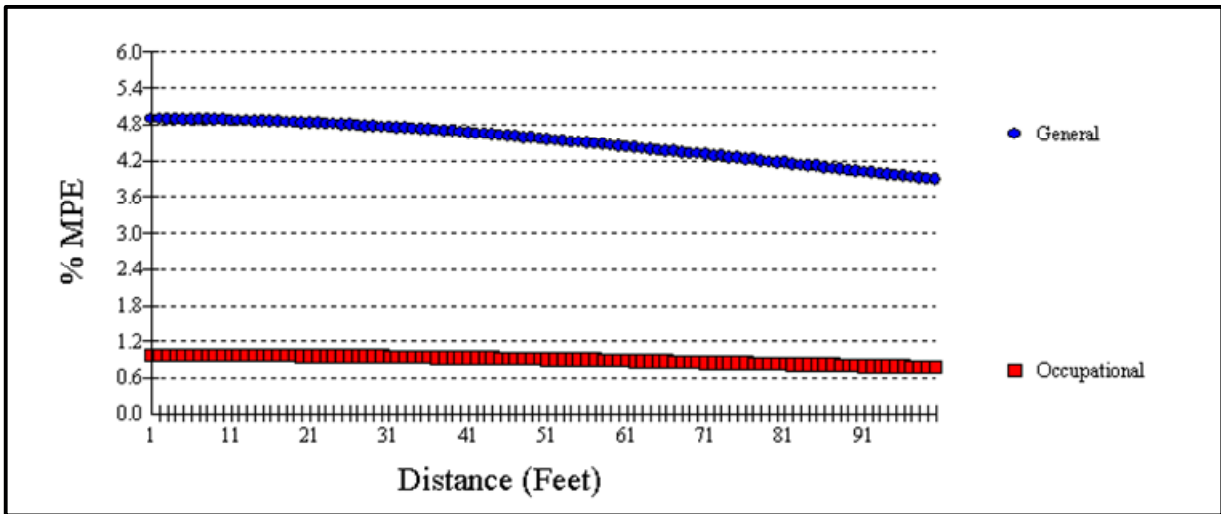
APPENDIX 3

Load List

| Proposed | Customer | RAD Height (ft) | Equipment Quantity | Equipment Type | Manufacturer | Model Number | Line Quantity | Line size | Mount Type | Azimuths | TX Frequency | RX Frequency |
|----------|------------------|-----------------|--------------------|----------------|------------------|------------------------------------|---------------|-------------|-------------------------|------------|-------------------------------------------------|-------------------------------------------------|
| No | AT&T MOBILITY | 155 | 1 | PANEL | Andrew | SBNH-1D6565C (60.8 lbs) | | | Platform with Handrails | 40/140/280 | | |
| No | AT&T MOBILITY | 155 | 2 | PANEL | KMW | AM-X-CD-17-65-00T-RET (96" Height) | | | Platform with Handrails | 40/140/280 | | |
| No | AT&T MOBILITY | 155 | 6 | PANEL | Powerwave Allgon | 7770.00 | 12 | 1 5/8" Coax | Platform with Handrails | 40/140/280 | 824-845, 869-890 | 845-849, 890-894 |
| Yes | AT&T MOBILITY | 154 | 3 | PANEL | CCI | HPA65R-BU8A | | | Platform with Handrails | 45/165/275 | 2305-2320 | 2350-2360 |
| Yes | AT&T MOBILITY | 154 | 3 | PANEL | CCI | OPA65R-BU8D | | | Platform with Handrails | 45/165/275 | 704-716 | 728-746 |
| Yes | AT&T MOBILITY | 154 | 3 | PANEL | CCI | DMP65R-BU8D | | | Platform with Handrails | 45/165/275 | 1850-1865, 1885-1910, 704-716, 824-845, 869-890 | 1930-1945, 1965-1990, 728-746, 845-849, 890-894 |
| No | AT&T MOBILITY | 154 | 3 | PANEL | Powerwave Allgon | 7770.00 | 6 | 1 5/8" Coax | Platform with Handrails | 143/263/23 | 824-845, 869-890 | 845-849, 890-894 |
| No | VERIZON WIRELESS | 117 | 3 | PANEL | Amphenol Antel | BXA-70063-6CF-EDIN-X | | | T-Arm | 330/90/210 | 746-757 | 776-787 |
| No | VERIZON WIRELESS | 117 | 3 | PANEL | Amphenol Antel | BXA-70080-4CF-EDIN-X | 3 | 1 5/8" Coax | T-Arm | 330/90/210 | 869-880, 890-892 | 824-835, 845-847 |
| No | VERIZON WIRELESS | 117 | 6 | PANEL | Commscope | HBXX-6517DS-A2M | | | T-Arm | 330/90/210 | 1970-1975, 2145-2155 | 1745-1755, 1890-1895 |

APPENDIX 4

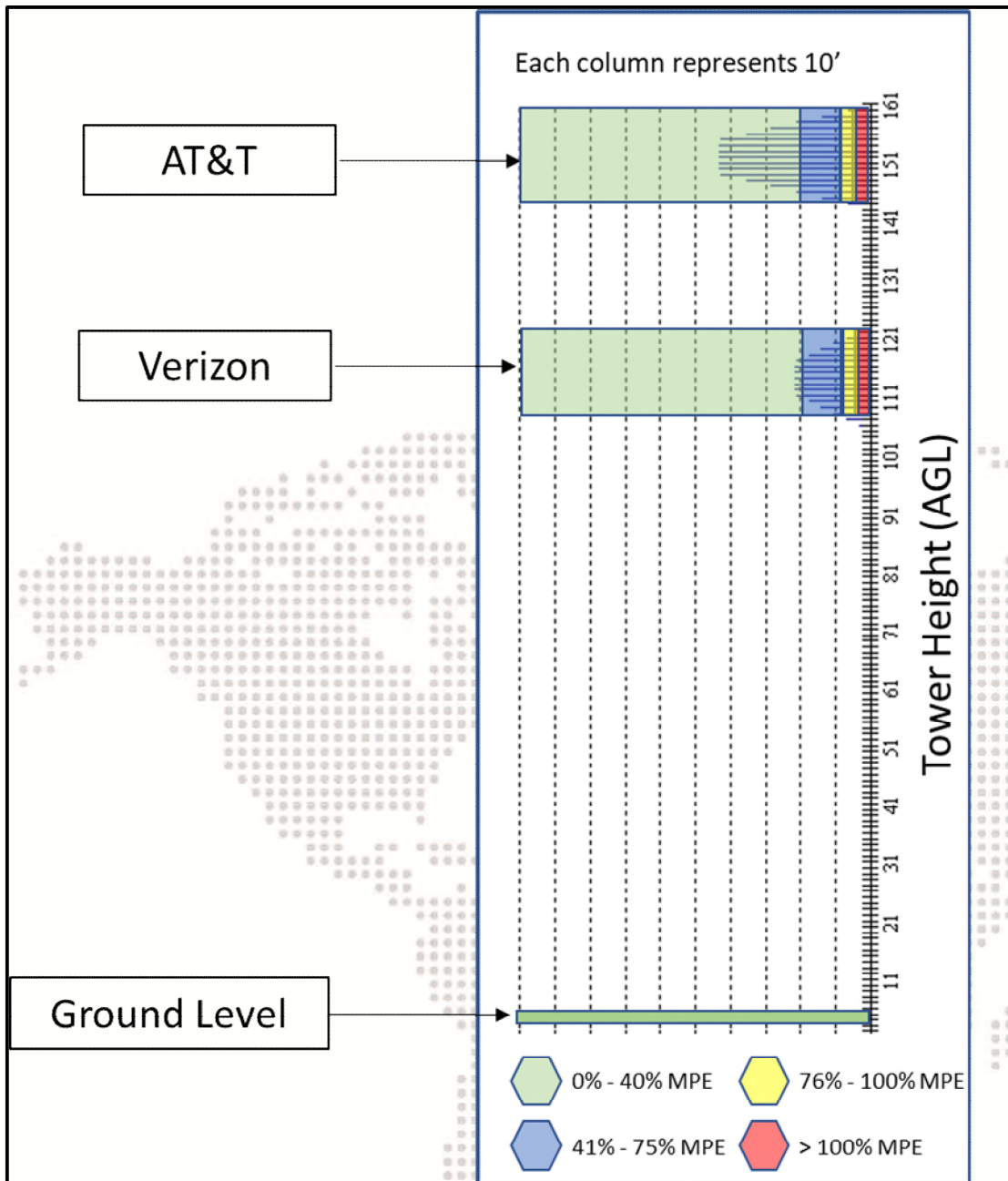
FCC OET-65 MPE Limit Study



| | |
|-------------------------------|---------------------------|
| General Population MPE (@1'): | 4.89% |
| Occupational MPE (@1'): | 0.98% |
| Maximum Power Density (@1'): | 0.0263 mW/cm ² |

APPENDIX 5

Tower Radiation Patterns



APPENDIX 6

Information Pertaining to MPE Studies

In 1985, the FCC first adopted guidelines to be used for evaluating human exposure to RF emissions. The FCC revised and updated these guidelines on August 1, 1996, as a result of a rule-making proceeding initiated in 1993. The new guidelines incorporate limits for Maximum Permissible Exposure (MPE) in terms of electric and magnetic field strength and power density for transmitters operating at frequencies between 300 kHz and 100 GHz.

The FCC's MPE limits are based on exposure limits recommended by the National Council on Radiation Protection and Measurements (NCRP) and, over a wide range of frequencies, the exposure limits were developed by the Institute of Electrical and Electronics Engineers, Inc., (IEEE) and adopted by the American National Standards Institute (ANSI) to replace the 1982 ANSI guidelines. Limits for localized absorption are based on recommendations of both ANSI/IEEE and NCRP.

The FCC's limits, and the NCRP and ANSI/IEEE limits on which they are based, are derived from exposure criteria quantified in terms of specific absorption rate (SAR). The basis for these limits is a whole-body averaged SAR threshold level of 4 watts per kilogram (4 W/kg), as averaged over the entire mass of the body, above which expert organizations have determined that potentially hazardous exposures may occur. The MPE limits are derived by incorporating safety factors that lead, in some cases, to limits that are more conservative than the limits originally adopted by the FCC in 1985. Where more conservative limits exist, they do not arise from a fundamental change in the RF safety criteria for whole-body averaged SAR, but from a precautionary desire to protect subgroups of the general population who, potentially, may be more at risk.

The FCC exposure limits are also based on data showing that the human body absorbs RF energy at some frequencies more efficiently than at others. The most restrictive limits occur in the frequency range of 30-300 MHz where whole-body absorption of RF energy by human beings is most efficient. At other frequencies, whole-body absorption is less efficient, and consequently, the MPE limits are less restrictive.

MPE limits are defined in terms of power density (units of milliwatts per centimeter squared: mW/cm²), electric field strength (units of volts per meter: V/m) and magnetic field strength (units of amperes per meter: A/m). The far-field of a transmitting antenna is where the electric field vector (E), the

magnetic field vector (H), and the direction of propagation can be considered to be all mutually orthogonal ("plane-wave" conditions).

Occupational/controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment and in which those persons who are exposed have been made fully aware of the potential for exposure and can exercise control over their exposure. Occupational/controlled exposure limits also apply where exposure is of a transient nature as a result of incidental passage through a location where exposure levels may be above general population/uncontrolled limits (see below), as long as the exposed person has been made fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

General population/uncontrolled exposure limits apply to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Therefore, members of the general public would always be considered under this category when exposure is not employment-related, for example, in the case of a telecommunications tower that exposes persons in a nearby residential area. Additional details can be found in FCC OET 65.



APPENDIX 7

MPE Standards Methodology

This study predicts RF field strength and power density levels that emanate from communications system antennae. It considers all transmitter power levels (less filter and line losses) delivered to each active transmitting antenna at the communications site. Calculations are performed to determine power density and MPE levels for each antenna as well as composite levels from all antennas. The calculated levels are based on where a human (Observer) would be standing at various locations at the site. The point of interest where the MPE level is predicted is based on the height of the Observer.

Compliance with the FCC limits on RF emissions are determined by spatially averaging a person's exposure over the projected area of an adult human body, that is approximately six-feet or two-meters, as defined in the ANSI/IEEE C95.1 standard. The MPE limits are specified as time-averaged exposure limits. This means that exposure is averaged over an identifiable time interval. It is 30 minutes for the general population/uncontrolled RF environment and 6 minutes for the occupational/controlled RF environment. However, in the case of the general public, time averaging should not be applied because the general public is typically not aware of RF exposure and they do not have control of their exposure time. Therefore, it should be assumed that any RF exposure to the general public will be continuous.

The FCC's limits for exposure at different frequencies are shown in the following Tables.

| Limits for Occupational/Controlled Exposure | | | | |
|---------------------------------------------|-----------------------------------|-----------------------------------|-----------------------------------------|-------------------------------------------------------------------|
| Frequency Range (MHz) | Electric Field Strength (E) (V/m) | Magnetic Field Strength (H) (A/m) | Power Density (S) (mW/cm ²) | Averaging Time E ² , H ² or S (minutes) |
| 0.3 - 3.0 | 614 | 1.63 | 100* | 6 |
| 3.0 - 30 | 1842/f | 4.89/f | 900/F ² | 6 |
| 30 - 300 | 61.4 | 0.163 | 1.0 | 6 |
| 300 - 1500 | -- | -- | f/300 | 6 |
| 1500 - 100,000 | -- | -- | 5 | 6 |

f = frequency



* = Plane-wave equivalent power density

Occupational/controlled limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where occupational/controlled limits apply provided he or she is made aware of the potential for exposure.

| Limits for General Population/Uncontrolled Exposure | | | | |
|-----------------------------------------------------|-----------------------------------|-----------------------------------|-----------------------------------------|-------------------------------------------------------------------|
| Frequency Range (MHz) | Electric Field Strength (E) (V/m) | Magnetic Field Strength (H) (A/m) | Power Density (S) (mW/cm ²) | Averaging Time E ² , H ² or S (minutes) |
| 0.3 - 1.34 | 614 | 1.63 | 100* | 30 |
| 1.34 - 30 | 824/f | 2.19/f | 180/F ² | 30 |
| 30 -300 | 27.5 | 0.073 | 0.2 | 30 |
| 300 -1500 | -- | -- | f/1500 | 30 |
| 1500 -100,000 | -- | -- | 1.0 | 30 |

f = frequency

* = Plane-wave equivalent power density

General population/uncontrolled exposures apply in situations in which the general public may be exposed or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.

It is important to understand that these limits apply cumulatively to all sources of RF emissions affecting a given area. For example, if several different communications system antennas occupy a shared facility such as a tower or rooftop, then the total exposure from all systems at the facility must be within compliance of the FCC guidelines.

The field strength emanating from an antenna can be estimated based on the characteristics of an antenna radiating in free space. There are basically two field areas associated with a radiating antenna. When close to the antenna, the region is known as the Near Field. Within this region, the characteristics of the RF fields are very complex and the wave front is extremely curved. As you move further from the antenna, the wave front has less curvature and becomes planar. The wave front still has a curvature but it appears to occupy a flat plane in space (plane-wave radiation). This region is known as the Far Field.

Two models are utilized to predict Near and Far field power densities. They are based on the formulae in FCC OET 65. As this study is concerned only with Near Field calculations, we will only describe the model used for this study. For additional details, refer to FCC OET Bulletin 65.

Cylindrical Model (Near Field Predictions)

Spatially averaged plane-wave equivalent power densities parallel to the antenna may be estimated by dividing the antenna input power by the surface area of an imaginary cylinder surrounding the length of the radiating antenna. While the actual power density will vary along the height of the antenna, the average value along its length will closely follow the relation given by the following equation:

$$S = P \div 2\pi RL$$

Where:

S = Power Density

P = Total Power into antenna

R = Distance from the antenna

L = Antenna aperture length

For directional-type antennas, power densities can be estimated by dividing the input power by that portion of a cylindrical surface area corresponding to the angular beam width of the antenna. For example, for the case of a 120-degree azimuthal beam width, the surface area should correspond to 1/3 that of a full cylinder. This would increase the power density near the antenna by a factor of three over that for a purely omni-directional antenna. Mathematically, this can be represented by the following formula:

$$S = (180 / \theta_{BW}) P \div \pi RL$$

Where:

S = Power Density

θ_{BW} = Beam width of antenna in degrees (3 dB half-power point)

P = Total Power into antenna

R = Distance from the antenna

L = Antenna aperture length

If the antenna is a 360-degree omni-directional antenna, this formula would be equivalent to the previous formula.

Spherical Model (Far Field Predictions)

Spatially averaged plane-wave power densities in the Far Field of an antenna may be estimated by considering the additional factors of antenna gain and reflective waves that would contribute to exposure.

The radiation pattern of an antenna has developed in the Far Field region and the power gain needs to be considered in exposure predictions. Also, if the vertical radiation pattern of the antenna is considered, the exposure predictions would most likely be reduced significantly at ground level, resulting in a more realistic estimate of the actual exposure levels.

Additionally, to model a truly "worst case" prediction of exposure levels at or near a surface, such as at ground-level or on a rooftop, reflection off the surface of antenna radiation power can be assumed, resulting in a potential four-fold increase in power density.

These additional factors are considered and the Far Field prediction model is determined by the following equation:

$$S = EIRP \times Rc \div 4\pi R^2$$

Where:

S = Power Density

EIRP = Effective Radiated Power from antenna

Rc = Reflection Coefficient (2.56)

R = Distance from the antenna

The EIRP includes the antenna gain. If the antenna pattern is considered, the antenna gain is relative based on the horizontal and vertical pattern gain values at that particular location in space, on a rooftop or on the ground. However, it is recommended that the antenna radiation pattern characteristics not be considered to provide a conservative "worst case" prediction. This is the equation is utilized for the Far Field exposure predictions herein.

EXHIBIT 7



STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

Ten Franklin Square
New Britain, Connecticut 06051
Phone: (860) 827-2935
Fax: (860) 827-2950

October 23, 2000

Peter W. van Wilgen
Springwich Cellular Limited Partnership
500 Enterprise Drive
Rocky Hill, CT 06067-3900

RE: **EM-SCLP-014/109/137/130-000926** - Springwich Cellular Limited Partnership (SCLP) notice of intent to modify existing telecommunications facilities located at Brushy Plains Road, Branford; Spalding Road, Plainfield; Taugwank Spur Road, Stonington; and Horse Fence Hill Road, Southbury, Connecticut.

Dear Mr. van Wilgen:

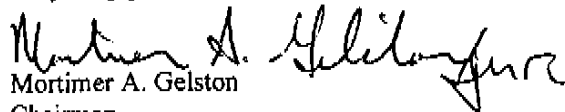
At a public meeting held on Thursday, October 19, 2000, the Connecticut Siting Council (Council) acknowledged your notice to modify these existing telecommunications facilities, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies.

The proposed modifications are to be implemented as specified here and in your notice dated September 26, 2000, and additional information received on October 11, 2000 and October 18, 2000. The modifications are in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to existing facility sites that would not increase tower heights, extend the boundaries of the tower sites, increase noise levels at the tower site boundaries by six decibels, and increase the total radio frequencies electromagnetic radiation power densities measured at the tower site boundaries to or above the standard adopted by the State Department of Environmental Protection pursuant to General Statutes § 22a-162. These facilities have also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on these towers.

This decision is under the exclusive jurisdiction of the Council. Any additional change to these facilities will require explicit notice to this agency pursuant to Regulations of Connecticut State Agencies Section 16-50j-73. Such notice shall include all relevant information regarding the proposed changes with cumulative worst-case modeling of radio frequency exposures at the closest point of uncontrolled access to the tower bases, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin 65. Any deviation from this format may result in the Council implementing enforcement proceedings pursuant to General Statutes § 16-50u including, without limitation, imposition of expenses resulting from such failure and of civil penalties in an amount not less than one thousand dollars per day for each day of construction or operation in material violation.

Thank you for your attention and cooperation.

Very truly yours,


Mortimer A. Gelston
Chairman

MAG/RKE/laf

c: Honorable Anthony J. DaRos, First Selectman, Town of Branford
Honorable Donald R. Maranell, First Selectman, Town of Stonington
Honorable Alfio A. Candido, Jr., First Selectman, Town of Southbury
Honorable Paul E. Sweet, First Selectman, Town of Plainfield
Sandy M. Carter, Verizon Wireless
Sam J. D'Agostino, PageNet, Inc.



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square
New Britain, Connecticut 06051
Phone: (860) 827-2935
Fax: (860) 827-2950

January 11, 1999

Peter J. Tyrrell
Senior Counsel
Springwich Cellular Limited Partnership
500 Enterprise Drive
Rocky Hill, CT 06067-3900

RE: TS-SCLP-109-981222 - Springwich Cellular Limited Partnership request for an order to approve tower sharing at an existing telecommunications facility located on Green Hollow Road in Plainfield, Connecticut.

Dear Attorney Tyrrell:

At a public meeting held on January 8, 1999, the Connecticut Siting Council (Council) ruled that the shared use of this existing tower site is technically, legally, environmentally, and economically feasible and meets public safety concerns, and therefore, in compliance with General Statutes § 16-50aa, the Council has ordered the shared use of this facility to avoid the unnecessary proliferation of tower structures.

This facility has been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequency now used on this tower. Any additional change to this facility will require explicit notice to this agency pursuant to Regulations of Connecticut State Agencies Section 16-50j-73. Such notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin 65. Any deviation from this format may result in the Council implementing enforcement proceedings pursuant to General Statutes § 16-50u including, without limitation, imposition of expenses resulting from such failure and of civil penalties in an amount not less than one thousand dollars per day for each day of construction or operation in material violation.

This decision applies only to this request for tower sharing and is not applicable to any other request or construction.

The proposed shared use is to be implemented as specified in your letter dated December 22, 1998. Please notify the Council when all work is complete.

Very truly yours,

Mortimer A. Gelston
Chairman

MAG/RKE/jlh

c: Honorable Paul E. Sweet, First Selectman, Town of Plainfield



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

136 Main Street, Suite 401
New Britain, Connecticut 06051-4225
Phone: 827-7682

*RAW
PYJ
PJT
CR*

July 29, 1993

Peter J. Tyrrell, Esq.
Senior Attorney
Springwich Cellular Limited Partnership
227 Church Street
New Haven, CT 06510

RE: Springwich Cellular Limited Partnership notice of intent to modify an existing telecommunications tower and associated equipment located off Spaulding Road in Plainfield, Connecticut.

Dear Attorney Tyrrell:

At a public meeting held on July 28, 1993, the Connecticut Siting Council acknowledged your notice of intent to modify an existing telecommunications facility off Spaulding Road in Plainfield, Connecticut, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies (RSA).

As proposed in your notice dated July 16, 1993, the modifications are in compliance with the exemption criteria specified in RSA 16-50j-72 for changes to an existing facility site that do not increase the tower height, extend the boundaries of the tower site, increase noise levels at the tower site boundary by 6 decibels, and increase the total radio frequency electromagnetic radiation power density measured at the tower site boundary to or above the standard adopted by the State Department of Environmental Protection pursuant to Section 22a-162 of the Connecticut General Statutes.

The Council is pleased to note that the shared use of an existing tower serves the Council's long-term goal of protecting the public interest by avoiding proliferation of additional tower structures.

Very truly yours,

Mortimer A. Gelston

Mortimer A. Gelston
Chairman

RECEIVED

DATE 8/1/93
SNET LEGAL DEPT.

MAG/SMH/ss

cc: Paul E. Sweet, First Selectman, Town of Plainfield
Gary S. Schulman, Vice President, BAM

7161E

EXHIBIT 8

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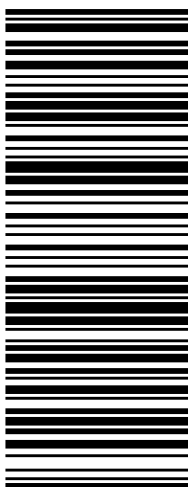

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| | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p style="text-align: right;">1 OF 1</p> <p>1 LBS</p> <p>CENTERLINE COMMUNICATIONS 5082655599 CENTERLINE CORPORATE 95 RYAN DR. RAYNHAM MA 02767</p> <p>SHIP TO: KEVIN CUNNINGHAM, FIRST SELECTMAN TOWN OF PLAINFIELD 8 COMMUNITY AVENUE PLAINFIELD CT 06374-1238</p> | <p style="font-size: 2em;">CT 063 0-04</p>  | <p>UPS GROUND</p> <p>TRACKING #: 1Z 9Y4 503 03 1486 5027</p>  | <p>BILLING: P/P</p> <p>Reference # 1: CT2051 - CSC TO TOWN</p> <p style="font-size: 0.8em;">CS 22.0.12. WNTNV50 42.0A 01/2021*</p>  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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 Your driver will pickup your shipment(s) as usual.

Customers without a Daily Pickup


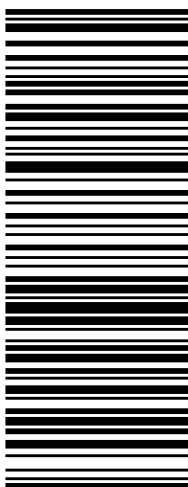
Take your package to any location of The UPS Store®, UPS Access Point(TM) location, UPS Drop Box, UPS Customer Center, Staples® or Authorized Shipping Outlet near you. Items sent via UPS Return Services(SM) (including via Ground) are also accepted at Drop Boxes. To find the location nearest you, please visit the Resources area of CampusShip and select UPS Locations.
 Schedule a same day or future day Pickup to have a UPS driver pickup all your CampusShip packages.
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| <p style="text-align: right;">1 OF 1</p> <p>1 LBS</p> <p>CENTERLINE COMMUNICATIONS 5082655599 CENTERLINE CORPORATE 95 RYAN DR. RAYNHAM MA 02767</p> <p>SHIP TO: MARY ANN CHINATTI, PLANNING&ZONING TOWN OF PLAINFIELD 8 COMMUNITY AVENUE PLAINFIELD CT 06374-1238</p> | <p>CT 063 0-04</p>  | <p>UPS GROUND</p> <p>TRACKING #: 1Z 9Y4 503 03 0787 2032</p>  | <p style="text-align: right;">BILLING: P/P</p> <p>Reference # 1: CT2051 - CSC TO P&Z <small>CS 22.0.12. WNTNV50 42.0A 01/2021*</small></p>  |
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UPS CampusShip: View/Print Label

- 1. **Ensure there are no other shipping or tracking labels attached to your package.** Select the Print button on the print dialog box that appears. Note: If your browser does not support this function select Print from the File menu to print the label.
- 2. **Fold the printed label at the solid line below.** Place the label in a UPS Shipping Pouch. If you do not have a pouch, affix the folded label using clear plastic shipping tape over the entire label.
- 3. **GETTING YOUR SHIPMENT TO UPS**
Customers with a Daily Pickup
 Your driver will pickup your shipment(s) as usual.

Customers without a Daily Pickup


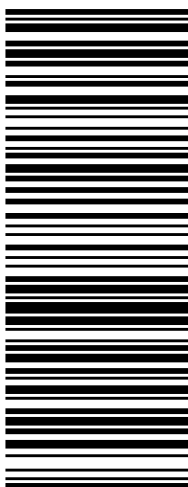

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| <p style="text-align: right;">1 OF 1</p> <p style="text-align: center;">1 LBS</p> <p>CENTERLINE COMMUNICATIONS 5082655599 CENTERLINE CORPORATE 95 RYAN DR. RAYNHAM MA 02767</p> <p>SHIP TO: ROBERT DOMINEZ SANCHEZ NICOLE SANCHEZ 161 PICKETT ROAD PLAINFIELD CT 06374-1635</p> | <p style="font-size: 2em;">CT 063 0-04</p>  | <p style="font-size: 1.5em;">UPS GROUND</p> <p>TRACKING #: 1Z 9Y4 503 03 0228 1046</p>  | <p style="text-align: center;">BILLING: P/P</p> |
|  | | | <p>Reference # 1: CT2051 - CSC TO GROUND OWNER <small>CS 22.0.12. WNTNV50 42.0A 01/2021*</small></p> |

UPS CampusShip: View/Print Label

- 1. Ensure there are no other shipping or tracking labels attached to your package.** Select the Print button on the print dialog box that appears. Note: If your browser does not support this function select Print from the File menu to print the label.
- 2. Fold the printed label at the solid line below.** Place the label in a UPS Shipping Pouch. If you do not have a pouch, affix the folded label using clear plastic shipping tape over the entire label.
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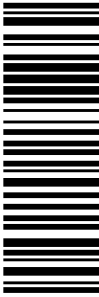
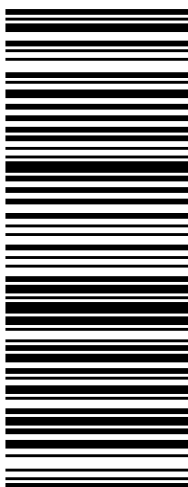

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| <p style="text-align: right;">1 OF 1</p> <p style="text-align: center;">1 LBS</p> <p>CENTERLINE COMMUNICATIONS 5082655599 CENTERLINE CORPORATE 95 RYAN DR. RAYNHAM MA 02767</p> <p>SHIP TO: CRAIG CORBETT AMERICAN TOWER CORPORATION 10 PRESIDENTIAL WAY WOBURN MA 01801-1053</p> | <p style="font-size: 2em;">MA 018 9-04</p>  | <p style="font-size: 1.5em;">UPS GROUND</p> <p>TRACKING #: 1Z 9Y4 503 03 0286 0018</p>  | <p style="text-align: center;">BILLING: P/P</p> <p>Reference # 1: CT2051 - CSC TO ATC <small>CS 22.0.12. WNTNV50 42.0A 01/2021*</small></p>  |
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