QC Development
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Storrs, CT 06268
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January 12, 2016

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

Notice of Exempt Modification – New Cingular Wireless PCS, LLC (AT&T) – CT1071
15 Oakdale Avenue, Winchester, CT 06098
N 41-55-18
W 73-03-02

Dear Ms. Bachman:

AT&T currently maintains nine (9) antennas at the 184-foot level of the existing 180-foot Monopole at 15 Oakdale Avenue, Winchester, CT. The structure and property are owned by American Tower. AT&T now intends to remove three (3) Ericsson remote radio units (RRUS-11) and replace them with three (3) new Ericsson RRUS-12s. The new radio units would be installed at the 184-foot level of the tower.

This facility was approved by the Connecticut Siting Council in Docket # 138a on November 26, 1990. The Decision and Order included a condition limiting the tower height to 192 feet AGL. This modification therefore complies with the aforementioned approval.

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies § 16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to the Honorable Althea Candy Perez, Mayor of the Town of Winchester, as well as the property owner and the tower owner.

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

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

2. The proposed modifications will not require the 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 replacement antennas will not increase radio frequency emissions at the facility to a level at or above the Federal Communications Commission safety standard.

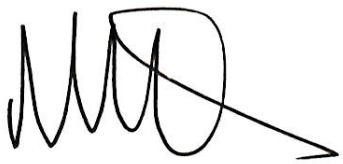
5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.

6. The existing structure and its foundation can support the proposed loading.

For the foregoing reasons, 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).

Please feel free to call me at (860) 670-9068 with any questions regarding this matter. Thank you for your consideration.

Sincerely,



Mark Roberts
QC Development
Consultant for AT&T

Attachments

cc: The Honorable Althea Candy Perez - as elected official
American Tower - as structure and property owner (via e-mail)

Power Density

Existing Loading on Tower

Carrier	# of Channels	ERP/Ch (W)	Antenna Centerline Height (ft)	Power Density (mW/cm^2)	Freq. Band (MHz**)	Limit S (mW /cm^2)	%MPE
Other Carriers*							6.27%
AT&T GSM	2	565	184	0.0128	850	0.5667	0.23%
AT&T UMTS	1	283	184	0.0032	850	0.5667	0.06%
AT&T UMTS	2	875	184	0.0238	1900	1.0000	0.24%
AT&T LTE	1	1313	184	0.0149	734	0.4893	0.30%
AT&T LTE	4	525	184	0.0238	2300	1.0000	0.24%
Site Total							7.29%

*Per CSC Records (available upon request, includes calculation formulas)

** If a range of frequencies are used, such as 880-894, enter the lowest value, i.e. 880

Proposed Loading on Tower

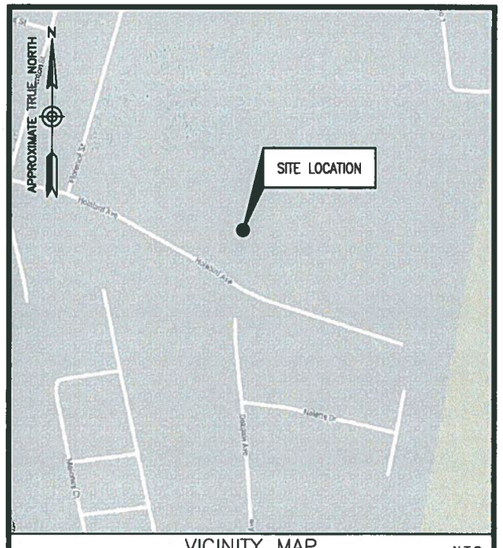
Carrier	# of Channels	ERP/Ch (W)	Antenna Centerline Height (ft)	Power Density (mW/cm^2)	Freq. Band (MHz**)	Limit S (mW /cm^2)	%MPE
Other Carriers*							6.27%
AT&T GSM	1	500	184	0.0057	850	0.5667	0.10%
AT&T UMTS	2	500	184	0.0114	850	0.5667	0.20%
AT&T UMTS	1	500	184	0.0057	1900	1.0000	0.06%
AT&T LTE	1	1476	184	0.0168	734	0.4893	0.34%
AT&T LTE	2	3664	184	0.0832	1900	1.0000	0.83%
Site Total							7.80%

*Per CSC Records (available upon request, includes calculation formulas)

** If a range of frequencies are used, such as 880-894, enter the lowest value, i.e. 880

Note: Proposed Loading may also include corrections to certain Existing Loading values

SITE NAME: WINSTED/WINCHESTER
SITE NUMBER: CT1071
15 OAKDALE AVENUE
WINSTED, CT 06098



VICINITY MAP N.T.S.

DIRECTIONS FROM 500 ENTERPRISE DRIVE, ROCKY HILL, CT:

HEAD NORTHEAST ON ENTERPRISE DR TOWARD CAPITAL BLVD. TURN LEFT ONTO CAPITAL BLVD. USE THE LEFT 2 LANES TO TURN LEFT ONTO STATE HWY 411. TURN LEFT TO MERGE ONTO I-91 S. MERGE ONTO I-91 S. TAKE EXIT 22N TO MERGE ONTO CT-9 N TOWARD NEW BRITAIN. USE THE LEFT LANE TO TAKE EXIT 32 FOR I-84 W TOWARD WATERBURY. MERGE ONTO I-84. USE THE RIGHT 2 LANES TO TAKE EXIT 39 TOWARD FARMINGTON/CT-4. CONTINUE ONTO STATE HWY 508. STATE HWY 508 TURNS SLIGHTLY RIGHT AND BECOMES CT-4 W. SLIGHT RIGHT TO STAY ON CT-4 W. CONTINUE ONTO CT-179 N. TURN RIGHT ONTO BRIDGE ST. TURN LEFT ONTO CT-179 N/RIVER RD. USE THE LEFT 2 LANES TO TURN LEFT ONTO US-44 W. TURN RIGHT AT W WEST HILL RD. TURN LEFT ONTO OLD NEW HARTFORD RD. TURN RIGHT ONTO OAKDALE AVE. SITE WILL BE ON THE RIGHT.

SITE COORDINATES:

LATITUDE: 41°-55'-18.069" N (NAD83)
LONGITUDE: 73°-02'-58.198" W (NAD83)
(PER GOOGLE EARTH)

ELEVATION DATA:

GRADE ELEVATION AT TOWER = 1078'± A.M.S.L.
(PER GOOGLE EARTH)

SITE INFORMATION

- SWAP EXISTING AWS RRUS-11 WITH 1900 RRUS-12 (TYP.-1 PER SECTOR) (3 TOTAL).
- DUL TO DUS UPGRADE.

PROJECT DESCRIPTION

SITE NAME:
WINSTED/WINCHESTER

SITE NUMBER:
CT1071

SITE ADDRESS:
15 OAKDALE AVENUE
WINSTED, CT 06098
LITCHFIELD COUNTY

TOWER OWNER:
AMERICAN TOWER CORPORATION
116 HUNTINGTON AVE., 11TH FLOOR
BOSTON, MA 02116

APPLICANT/LESSEE:
AT&T MOBILITY
500 ENTERPRISE DRIVE, SUITE 3A
ROCKY HILL, CT 06067

PROJECT INFORMATION

THIS DOCUMENT WAS DEVELOPED TO REFLECT A SPECIFIC SITE AND ITS SITE CONDITIONS AND IS NOT TO BE USED FOR ANOTHER SITE OR WHEN OTHER CONDITIONS PERTAIN. REUSE OF THIS DOCUMENT IS AT THE SOLE RISK OF THE USER.

A.D.A. COMPLIANCE:
FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION.

SHEET NUMBER	DESCRIPTION
T-1	TITLE SHEET
G-1	GENERAL NOTES
C-1	COMPOUND PLAN
C-2	EXISTING & PROPOSED SHELTER LAYOUTS
C-3	ANTENNA LAYOUTS & ELEVATIONS
C-4	CONSTRUCTION DETAILS
E-1	GROUNDING NOTES & DETAILS

SHEET INDEX

at&t
500 ENTERPRISE DRIVE SUITE 3A
ROCKY HILL, CT 06067

SAI
27 NORTHWESTERN DRIVE
SALEM, NH 03079

CT1071
WINSTED/
WINCHESTER

CONSTRUCTION DRAWINGS

1	01/10/17	ISSUED FOR CONSTRUCTION
A	01/03/17	ISSUED FOR REVIEW

Dewberry
Dewberry Engineers Inc.
600 PARSIPPANY ROAD
SUITE 301
PARSIPPANY, NJ 07054
PHONE: 973.739.9400
FAX: 973.739.9710

STATE OF CONNECTICUT
JIANG YU
No. 29222
LICENSED PROFESSIONAL ENGINEER
CONNECTICUT LICENSE NO. 29222

DRAWN BY:	JG
REVIEWED BY:	DER
CHECKED BY:	GHN
PROJECT NUMBER:	50055106
JOB NUMBER:	50065681
SITE ADDRESS:	

15 OAKDALE AVENUE
WINSTED, CT 06098
LITCHFIELD COUNTY

SHEET TITLE

TITLE SHEET

SHEET NUMBER

T-1

GENERAL NOTES:

1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:

   PROJECT MANAGEMENT – SAI COMMUNICATIONS, INC.
   CONTRACTOR – GENERAL CONTRACTOR (CONSTRUCTION)
   OWNER – AT&T MOBILITY
   OEM – ORIGINAL EQUIPMENT MANUFACTURER

2. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING CONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF PROJECT MANAGEMENT.

3. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK.

4. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.

5. DRAWINGS PROVIDED HERE ARE NOT TO SCALE UNLESS OTHERWISE NOTED AND ARE INTENDED TO SHOW OUTLINE ONLY.

6. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.

7. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.

8. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY PROJECT MANAGEMENT.

9. CONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND T1 CABLES, GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWING. CONTRACTOR SHALL UTILIZE EXISTING TRAYS AND/OR SHALL ADD NEW TRAYS AS NECESSARY. CONTRACTOR SHALL CONFIRM THE ACTUAL ROUTING WITH PROJECT MANAGEMENT.

10. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.

11. CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.

12. CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.

13. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.

14. CONTRACTOR SHALL NOTIFY DEWBERRY 48 HOURS IN ADVANCE OF POURING CONCRETE, OR BACKFILLING TRENCHES, SEALING ROOF AND WALL PENETRATIONS & POST DOWNS, FINISHING NEW WALLS OR FINAL ELECTRICAL CONNECTIONS FOR ENGINEER REVIEW.

15. CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS MUST BE VERIFIED. CONTRACTOR SHALL NOTIFY PROJECT MANAGEMENT OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.

16. THE EXISTING CELL SITE IS IN FULL COMMERCIAL OPERATION. ANY CONSTRUCTION WORK BY CONTRACTOR SHALL NOT DISRUPT THE EXISTING NORMAL OPERATION. ANY WORK ON EXISTING EQUIPMENT MUST BE COORDINATED WITH LAND LORD. ALSO, WORK SHOULD BE SCHEDULED FOR AN APPROPRIATE MAINTENANCE WINDOW USUALLY IN LOW TRAFFIC PERIODS AFTER MIDNIGHT.

17. SINCE THE CELL SITE IS ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE ADVISED TO BE WORN TO ALERT OF ANY DANGEROUS EXPOSURE LEVELS.

SITE WORK GENERAL NOTES:

1. THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.

2. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY CONTRACTOR. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO:
   A) FALL PROTECTION
   B) CONFINED SPACE
   C) ELECTRICAL SAFETY
   D) TRENCHING & EXCAVATION.

3. ALL SITE WORK SHALL BE AS INDICATED ON THE DRAWINGS AND PROJECT SPECIFICATIONS.

4. IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES, TOP SOIL AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.

5. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF CONTRACTOR, OWNER AND/OR LOCAL UTILITIES.

6. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION.

7. THE CONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE AT&T SPECIFICATION FOR SITE SIGNAGE.

8. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE TRANSMISSION EQUIPMENT AND TOWER AREAS.

9. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.

10. THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION, SEE SOIL COMPACTION NOTES.

11. THE AREAS OF THE OWNER'S PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION.

12. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL JURISDICTION'S GUIDELINES FOR EROSION AND SEDIMENT CONTROL.

CONCRETE AND REINFORCING STEEL NOTES:

1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336, ASTM A184, ASTM A185 AND THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CAST-IN-PLACE CONCRETE.

2. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS, UNLESS NOTED OTHERWISE. A HIGHER STRENGTH (4000 PSI) MAY BE USED. ALL CONCRETING WORK SHALL BE DONE IN ACCORDANCE WITH ACI 318 CODE REQUIREMENTS.

3. REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE (UNO). SPLICES SHALL BE CLASS "B" AND ALL HOOKS SHALL BE STANDARD, UNO.

4. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:

   CONCRETE CAST AGAINST EARTH.....3 IN.
   CONCRETE EXPOSED TO EARTH OR WEATHER:
   #6 AND LARGER .....2 IN.
   #5 AND SMALLER & WWF.....1 1/2 IN.
   CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR NOT CAST AGAINST THE GROUND:
   SLAB AND WALL .....3/4 IN.
   BEAMS AND COLUMNS.....1 1/2 IN.

5. A CHAMFER 3/4" SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNO, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.

6. INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR, SHALL BE PER MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL OR ROD SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR CONTRACTOR APPROVAL WHEN DRILLING HOLES IN CONCRETE. SPECIAL INSPECTIONS, REQUIRED BY GOVERNING CODES, SHALL BE PERFORMED IN ORDER TO MAINTAIN MANUFACTURER'S MAXIMUM ALLOWABLE LOADS. ALL EXPANSION/WEDGE ANCHORS SHALL BE STAINLESS STEEL OR HOT DIPPED GALVANIZED. EXPANSION BOLTS SHALL BE PROVIDED BY RAMSET/REDHEAD OR APPROVED EQUAL.

7. CONCRETE CYLINDER TEST IS NOT REQUIRED FOR SLAB ON GRADE WHEN CONCRETE IS LESS THAN 50 CUBIC YARDS (IBC 1905.6.2.3) IN THAT EVENT THE FOLLOWING RECORDS SHALL BE PROVIDED BY THE CONCRETE SUPPLIER;
   (A) RESULTS OF CONCRETE CYLINDER TESTS PERFORMED AT THE SUPPLIER'S PLANT,
   (B) CERTIFICATION OF MINIMUM COMPRESSIVE STRENGTH FOR THE CONCRETE GRADE SUPPLIED.
   FOR GREATER THAN 50 CUBIC YARDS THE GC SHALL PERFORM THE CONCRETE CYLINDER TEST.

8. AS AN ALTERNATIVE TO ITEM 7, TEST CYLINDERS SHALL BE TAKEN INITIALLY AND THEREAFTER FOR EVERY 50 YARDS OF CONCRETE FROM EACH DIFFERENT BATCH PLANT.

9. EQUIPMENT SHALL NOT BE PLACED ON NEW PADS FOR SEVEN DAYS AFTER PAD IS POURED, UNLESS IT IS VERIFIED BY CYLINDER TESTS THAT COMPRESSIVE STRENGTH HAS BEEN ATTAINED.

STRUCTURAL STEEL NOTES:

1. ALL STEEL WORK SHALL BE PAINTED OR GALVANIZED IN ACCORDANCE WITH THE DRAWINGS UNLESS NOTED OTHERWISE. STRUCTURAL STEEL SHALL BE ASTM-A-36 UNLESS OTHERWISE NOTED ON THE SITE SPECIFIC DRAWINGS. STEEL DESIGN, INSTALLATION AND BOLTING SHALL BE PERFORMED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) "MANUAL OF STEEL CONSTRUCTION".

2. ALL WELDING SHALL BE PERFORMED USING E70XX ELECTRODES AND WELDING SHALL CONFORM TO AISC. WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "MANUAL OF STEEL CONSTRUCTION". PAINTED SURFACES SHALL BE TOUCHED UP.

3. BOLTED CONNECTIONS SHALL BE ASTM A325 BEARING TYPE (3/4"Ø) CONNECTIONS AND SHALL HAVE MINIMUM OF TWO BOLTS UNLESS NOTED OTHERWISE.

4. NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE 5/8" DIA. ASTM A 307 BOLTS UNLESS NOTED OTHERWISE.

5. INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR, SHALL BE PER MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL OR ROD SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR CONTRACTOR APPROVAL WHEN DRILLING HOLES IN CONCRETE. SPECIAL INSPECTIONS, REQUIRED BY GOVERNING CODES, SHALL BE PERFORMED IN ORDER TO MAINTAIN MANUFACTURER'S MAXIMUM ALLOWABLE LOADS. ALL EXPANSION/WEDGE ANCHORS SHALL BE STAINLESS STEEL OR HOT DIPPED GALVANIZED. EXPANSION BOLTS SHALL BE PROVIDED BY RAMSET/REDHEAD OR APPROVED EQUAL.

6. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ENGINEER REVIEW & APPROVAL ON PROJECTS REQUIRING STRUCTURAL STEEL.

7. ALL STRUCTURAL STEEL WORK SHALL BE DONE IN ACCORDANCE WITH AISC SPECIFICATIONS.

SOIL COMPACTION NOTES FOR SLAB ON GRADE:

1. EXCAVATE AS REQUIRED TO REMOVE VEGETATION & TOPSOIL EXPOSE UNDISTURBED NATURAL SUBGRADE AND PLACE CRUSHED STONE AS REQUIRED.

2. COMPACTION CERTIFICATION: AN INSPECTION AND WRITTEN CERTIFICATION BY A QUALIFIED GEOTECHNICAL TECHNICIAN OR ENGINEER IS ACCEPTABLE.

3. AS AN ALTERNATIVE TO INSPECTION AND WRITTEN CERTIFICATION, THE "UNDISTURBED SOIL" BASE SHALL BE COMPACTED WITH "COMPACTION EQUIPMENT", LISTED BELOW, TO AT LEAST 90% MODIFIED PROCTOR MAXIMUM DENSITY PER ASTM D 1557 METHOD C.

4. COMPACTED SUBBASE SHALL BE UNIFORM & LEVELED. PROVIDE 6" MINIMUM CRUSHED STONE OR GRAVEL COMPACTED IN 3" LIFTS ABOVE COMPACTED SOIL. GRAVEL SHALL BE NATURAL OR CRUSHED WITH 100% PASSING 1" SIEVE.

5. AS AN ALTERNATIVE TO ITEMS 2 AND 3 PROOFROLL THE SUBGRADE SOILS WITH 5 PASSES OF A MEDIUM SIZED VIBRATORY PLATE COMPACTOR (SUCH AS BOMAG BPR 30/38) OR HAND-OPERATED SINGLE DRUM VIBRATORY ROLLER (SUCH AS BOMAG BW 55E). ANY SOFT AREAS THAT ARE ENCOUNTERED SHOULD BE REMOVED AND REPLACED WITH A WELL-GRADED GRANULAR FILL, AND COMPACTED AS STATED ABOVE.

COMPACTION EQUIPMENT:

1. HAND OPERATED DOUBLE DRUM, VIBRATORY ROLLER, VIBRATORY PLATE COMPACTOR OR JUMPING JACK COMPACTOR.

CONSTRUCTION NOTES:

1. FIELD VERIFICATION:
   CONTRACTOR SHALL FIELD VERIFY SCOPE OF WORK, AT&T ANTENNA PLATFORM LOCATION AND ANTENNAS TO BE REPLACED.

2. COORDINATION OF WORK:
   CONTRACTOR SHALL COORDINATE RF WORK AND PROCEDURES WITH PROJECT MANAGEMENT.

3. CABLE LADDER RACK:
   CONTRACTOR SHALL FURNISH AND INSTALL CABLE LADDER RACK, CABLE TRAY, AND CONDUIT AS REQUIRED TO SUPPORT CABLES TO THE NEW BTS LOCATION.

ELECTRICAL INSTALLATION NOTES:

1. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE LOCAL CODES.

2. CONTRACTOR SHALL MODIFY EXISTING CABLE TRAY SYSTEM AS REQUIRED TO SUPPORT RF AND TRANSPORT CABLING TO THE NEW BTS EQUIPMENT. CONTRACTOR SHALL SUBMIT MODIFICATIONS TO PROJECT MANAGEMENT FOR APPROVAL.

3. CONDUIT ROUTINGS ARE SCHEMATIC. CONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED.

4. WIRING, RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC.

5. ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC.

6. CABLES SHALL NOT BE ROUTED THROUGH LADDER-STYLE CABLE TRAY RUNGS.

7. EACH END OF EVERY POWER, POWER PHASE CONDUCTOR (I.E., HOTS), GROUNDING, AND T1 CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2 INCH PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC & OSHA, AND MATCH EXISTING INSTALLATION REQUIREMENTS.

8. ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS. ALL EQUIPMENT SHALL BE LABELED WITH THEIR VOLTAGE RATING, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING, AND BRANCH CIRCUIT ID NUMBERS (I.E., PANELBOARD AND CIRCUIT ID'S).

9. PANELBOARDS (ID NUMBERS) AND INTERNAL CIRCUIT BREAKERS (CIRCUIT ID NUMBERS) SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS.

10. ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.

11. POWER, CONTROL, AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE CONDUCTOR (SIZE 14 AWG OR LARGER), 600V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.

12. POWER PHASE CONDUCTORS (I.E., HOTS) SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2 INCH PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL.) PHASE CONDUCTOR COLOR CODES SHALL CONFORM WITH THE NEC & OSHA AND MATCH EXISTING INSTALLATION REQUIREMENTS.

13. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE CONDUCTOR (SIZE 6 AWG OR LARGER), 600V, OIL RESISTANT THHN OR THWN-2 GREEN INSULATION, CLASS B STRANDED COPPER CABLE RATED FOR 90°C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.

14. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED OUTDOORS, OR BELOW GRADE, SHALL BE SINGLE CONDUCTOR #2 AWG SOLID TINNED COPPER CABLE, UNLESS OTHERWISE SPECIFIED.

15. POWER AND CONTROL WIRING, NOT IN TUBING OR CONDUIT, SHALL BE MULTI-CONDUCTOR, TYPE TC CABLE (SIZE 14 AWG OR LARGER), 600V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90°C (WET AND DRY) OPERATION; WITH OUTER JACKET; LISTED OR LABELED FOR THE LOCATION USED, UNLESS OTHERWISE SPECIFIED.

16. ALL POWER AND POWER GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WIRENUTS BY THOMAS AND BETTS (OR EQUAL). LUGS AND WIRENUTS SHALL BE RATED FOR OPERATION AT NO LESS THAN 75°C (90°C IF AVAILABLE).

17. RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE, AND NEC.

18. NEW RACEWAY OR CABLE TRAY WILL MATCH THE EXISTING INSTALLATION WHERE POSSIBLE.

19. ELECTRICAL METALLIC TUBING (EMT) OR RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40, OR RIGID PVC SCHEDULE 80 FOR LOCATIONS SUBJECT TO PHYSICAL DAMAGE) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.

20. ELECTRICAL METALLIC TUBING (EMT), ELECTRICAL NONMETALLIC TUBING (ENT), OR RIGID NONMETALLIC CONDUIT (RIGID PVC, SCHEDULE 40) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.

21. GALVANIZED STEEL INTERMEDIATE METALLIC CONDUIT (IMC) SHALL BE USED FOR OUTDOOR LOCATIONS ABOVE GRADE.

22. RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40 OR RIGID PVC SCHEDULE 80) SHALL BE USED UNDERGROUND; DIRECT BURIED, IN AREAS OF OCCASIONAL LIGHT VEHICLE TRAFFIC OR ENCASED IN REINFORCED CONCRETE IN AREAS OF HEAVY VEHICLE TRAFFIC.

23. LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.

24. CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SETSCREW FITTINGS ARE NOT ACCEPTABLE.

25. CABINETS, BOXES, AND WIREWAYS SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE, AND NEC.

26. CABINETS, BOXES, AND WIREWAYS TO MATCH THE EXISTING INSTALLATION WHERE POSSIBLE.

27. WIREWAYS SHALL BE EPOXY-COATED (GRAY) AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARD; SHALL BE PANDUIT TYPE E (OR EQUAL); AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.

28. EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES, AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET STEEL, SHALL MEET OR EXCEED UL 50, AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.

29. METAL RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED, OR NON-CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA OS 1; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.

30. NONMETALLIC RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.

31. THE CONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM PROJECT MANAGEMENT BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.

32. THE CONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD AGAINST LIFE AND PROPERTY.

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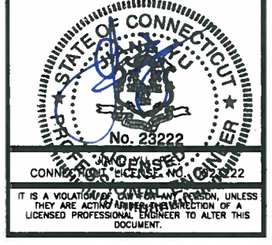

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DRAWN BY:	JG
REVIEWED BY:	DER
CHECKED BY:	GHN
PROJECT NUMBER:	50055106
JOB NUMBER:	50065681

SITE ADDRESS:

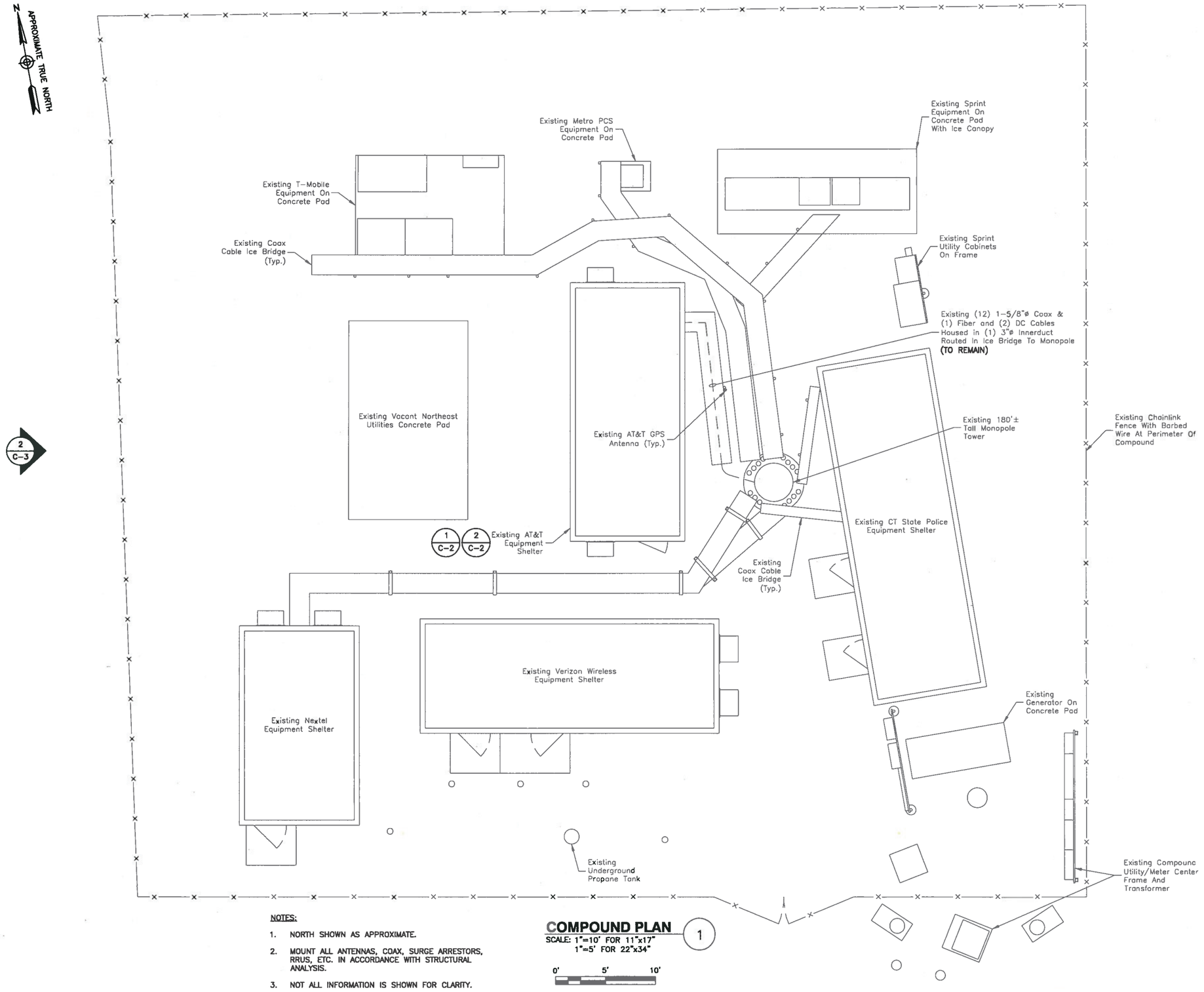
15 OAKDALE AVENUE
WINSTED, CT 06098
LITCHFIELD COUNTY

SHEET TITLE

GENERAL NOTES

SHEET NUMBER

G-1



NOTES:

1. NORTH SHOWN AS APPROXIMATE.
2. MOUNT ALL ANTENNAS, COAX, SURGE ARRESTORS, RRUS, ETC. IN ACCORDANCE WITH STRUCTURAL ANALYSIS.
3. NOT ALL INFORMATION IS SHOWN FOR CLARITY.

COMPOUND PLAN 1
SCALE: 1"=10' FOR 11"x17"
1"=5' FOR 22"x34"

0' 5' 10'

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STATE OF CONNECTICUT
No. 23222
PROFESSIONAL ENGINEER
JAMES GUSE
CONNECTICUT LICENSE NO. 23222

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REVIEWED BY:	DER
CHECKED BY:	GHN
PROJECT NUMBER:	50055106
JOB NUMBER:	50065681
SITE ADDRESS:	

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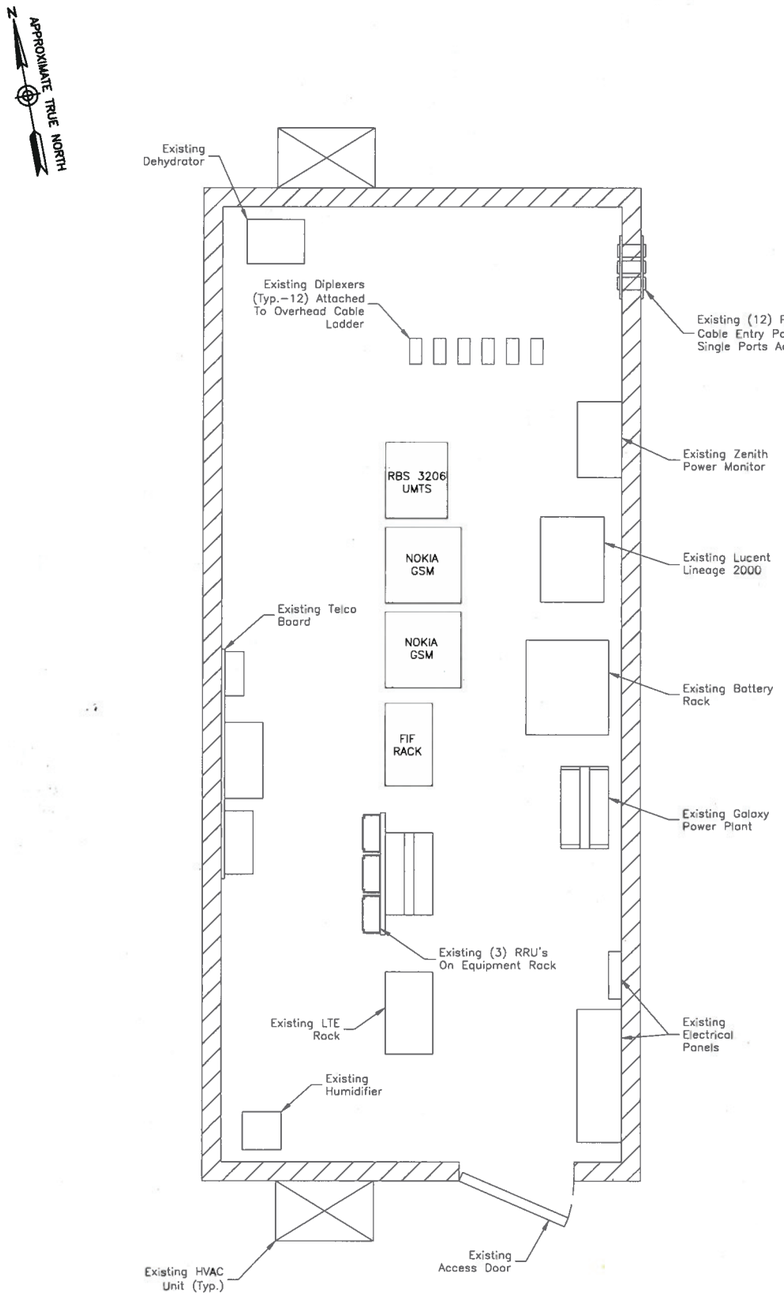
LITCHFIELD COUNTY

SHEET TITLE

COMPOUND PLAN

SHEET NUMBER

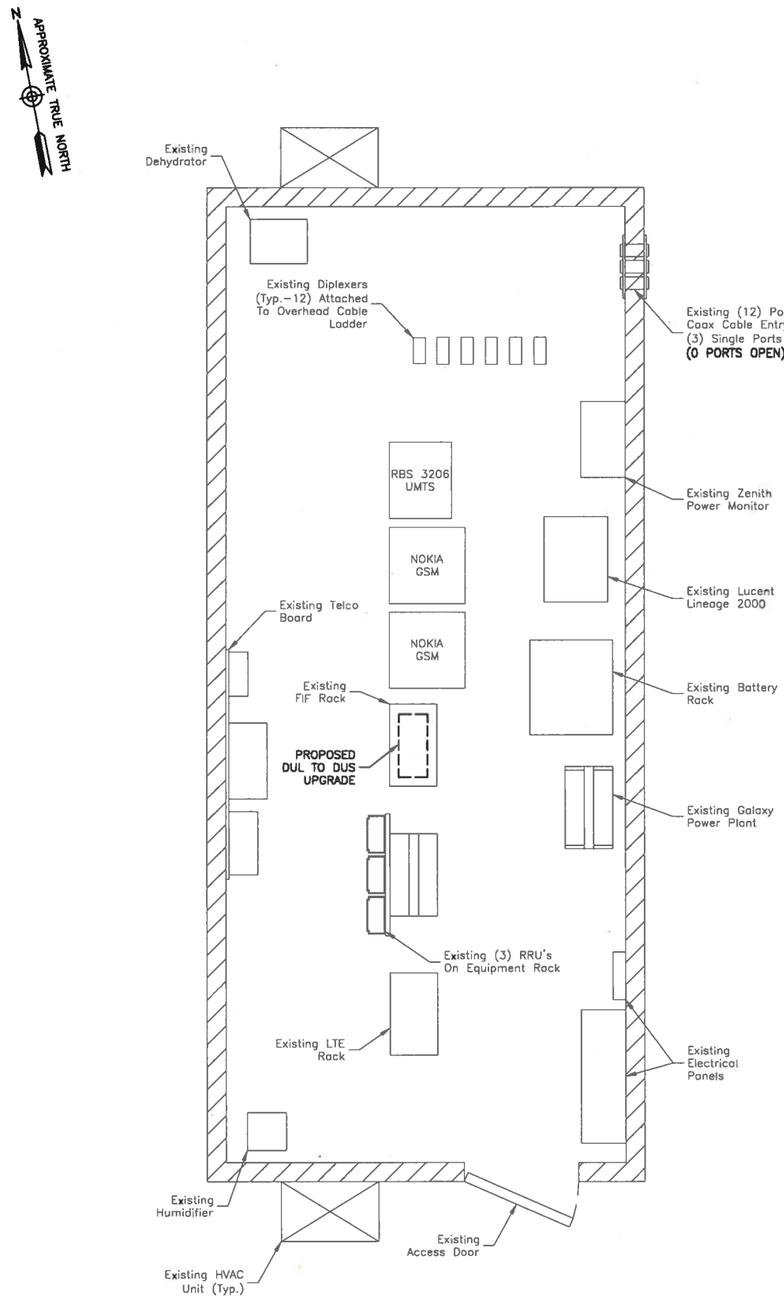
C-1



EXISTING SHELTER LAYOUT (1)

SCALE: 1/4"=1' FOR 11"x17"
1/2"=1' FOR 22"x34"

0' 1' 2' 4'



PROPOSED SHELTER LAYOUT (2)

SCALE: 1/4"=1' FOR 11"x17"
1/2"=1' FOR 22"x34"

0' 1' 2' 4'

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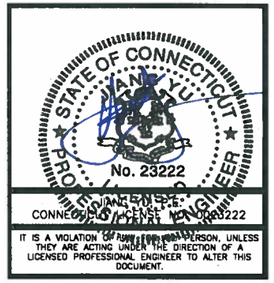

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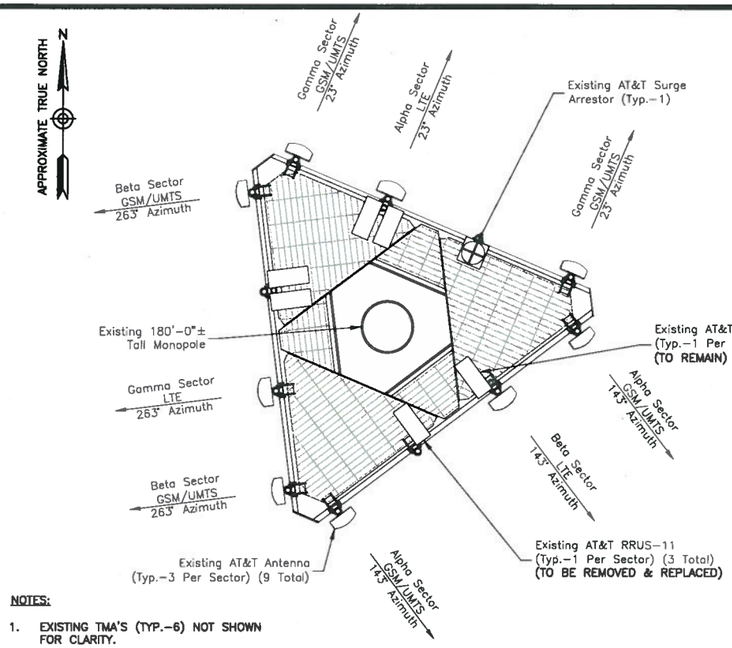
SHEET TITLE

EXISTING & PROPOSED SHELTER LAYOUTS

SHEET NUMBER

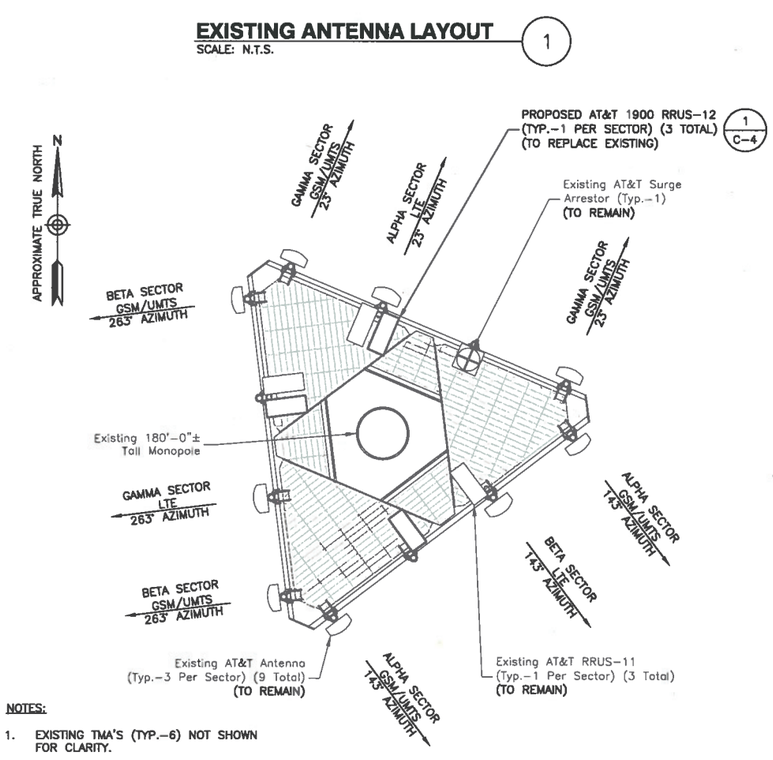
C-2



NOTES:

1. EXISTING TMA'S (TYP.-6) NOT SHOWN FOR CLARITY.
2. ALL EXISTING TMA'S ARE TO REMAIN.

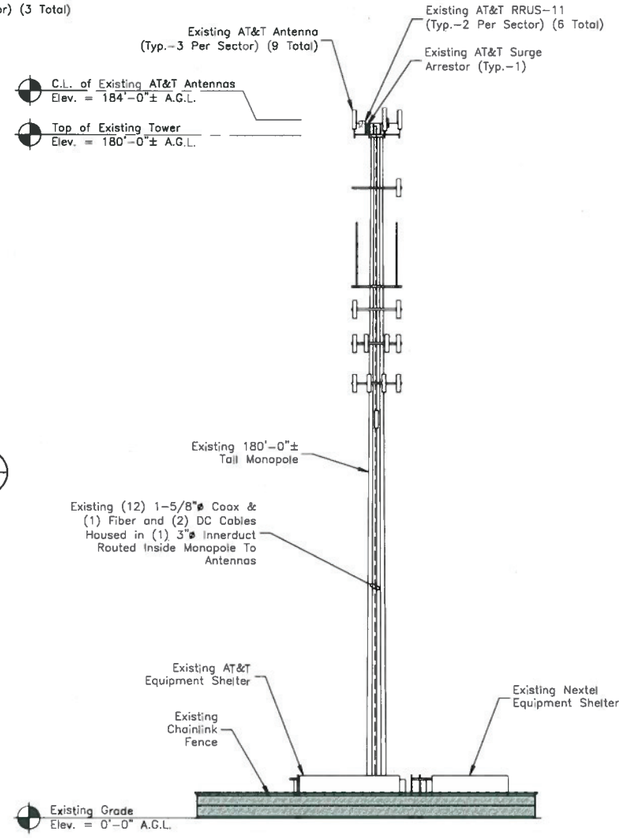
EXISTING ANTENNA LAYOUT (1)
SCALE: N.T.S.



NOTES:

1. EXISTING TMA'S (TYP.-6) NOT SHOWN FOR CLARITY.
2. ALL EXISTING TMA'S ARE TO REMAIN.

PROPOSED ANTENNA LAYOUT (2)
SCALE: N.T.S.

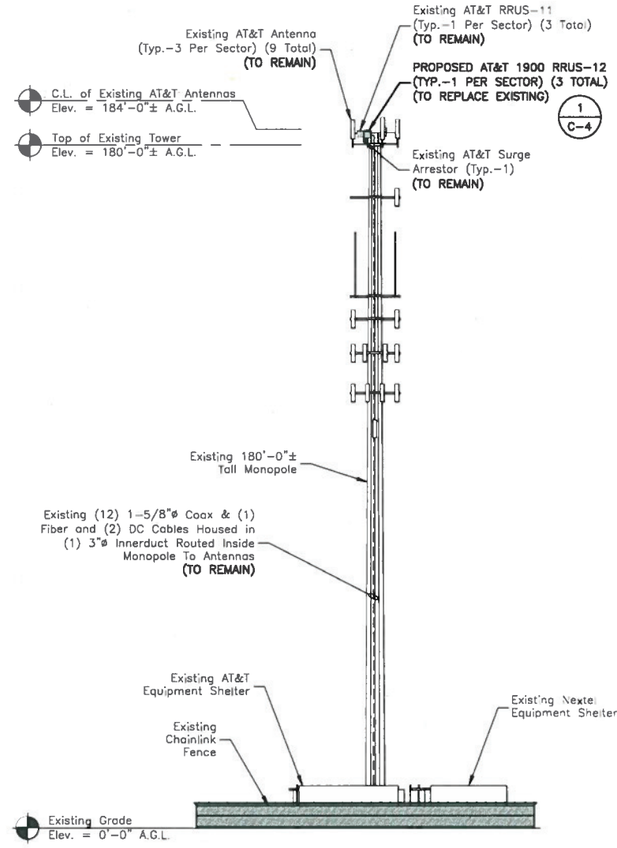


EXISTING WEST ELEVATION (3)
SCALE: 1"=40' FOR 11"x17"
1"=20' FOR 22"x34"

0' 20' 40'

NOTES:

1. PRIOR TO START OF ANY WORK, A PASSING STRUCTURAL ANALYSIS SHALL BE PROVIDED BY A CONNECTICUT LICENSED P.E. CONTRACTOR TO OBTAIN A COPY BEFORE STARTING ANY WORK.
2. ALL ANTENNAS, COAX, SURGE ARRESTORS, RRUS, ETC. TO BE INSTALLED IN ACCORDANCE WITH STRUCTURAL ANALYSIS AND FINAL AT&T RF DATA SHEET.



PROPOSED WEST ELEVATION (4)
SCALE: 1"=40' FOR 11"x17"
1"=20' FOR 22"x34"

0' 20' 40'

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LITCHFIELD COUNTY

SHEET TITLE

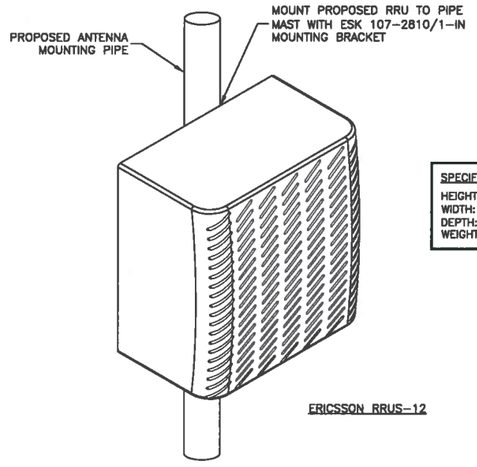
ANTENNA LAYOUTS & ELEVATIONS

SHEET NUMBER

C-3

EXISTING/PROPOSED RRUS SCHEDULE

SECTOR	MAKE	MODEL#	SIZE (INCHES)
ALPHA:	ERICSSON	RRUS–11	19.7x17.0x7.2
	ERICSSON	RRUS–12	18.2x18.5x7.3
BETA:	ERICSSON	RRUS–11	19.7x17.0x7.2
	ERICSSON	RRUS–12	18.2x18.5x7.3
GAMMA:	ERICSSON	RRUS–11	19.7x17.0x7.2
	ERICSSON	RRUS–12	18.2x18.5x7.3



ERICSSON RRUS–12

SPECIFICATIONS:
HEIGHT: 18.2"
WIDTH: 18.5"
DEPTH: 7.3"
WEIGHT: 55.0 LBS

RRU NOTES:

1. MOUNT EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS.
2. GROUND EQUIPMENT AND MOUNTS PER MANUFACTURER'S RECOMMENDATIONS AND AT&T STANDARDS.
3. CONFIRM REQUIRED EQUIPMENT WITH THE LATEST RFDS.

RRUS-12 - REMOTE RADIO UNIT (1)
SCALE: N.T.S.

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No. 23222
PROFESSIONAL ENGINEER
GUANG YU
CONNECTICUT LICENSE NO. 23222
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SHEET TITLE

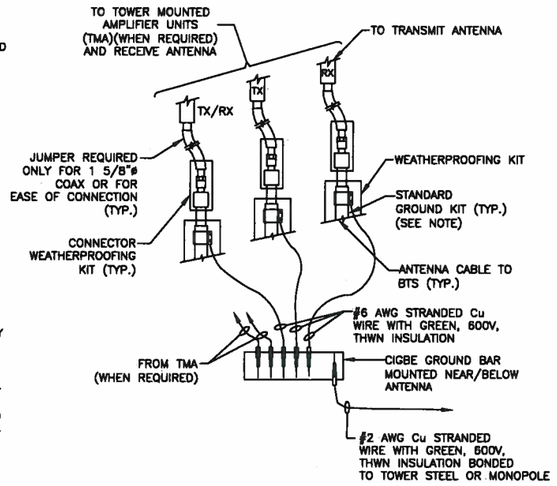
CONSTRUCTION DETAILS

SHEET NUMBER

C–4

GROUNDING NOTES:

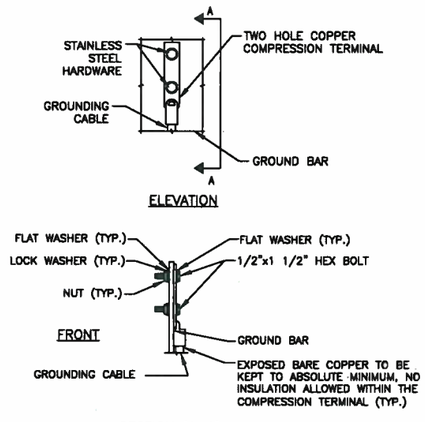
1. THE CONTRACTOR SHALL REVIEW AND INSPECT THE EXISTING FACILITY GROUNDING SYSTEM AND LIGHTNING PROTECTION SYSTEM (AS DESIGNED AND INSTALLED) FOR STRICT COMPLIANCE WITH THE NEC (AS ADOPTED BY THE AHJ). THE SITE-SPECIFIC (UL, LPI, OR NFPA) LIGHTING PROTECTION CODE, AND GENERAL COMPLIANCE WITH TELCORDIA AND TIA GROUNDING STANDARDS. THE CONTRACTOR SHALL REPORT ANY VIOLATIONS OR ADVERSE FINDINGS TO THE ENGINEER FOR RESOLUTION.
2. ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION, AND AC POWER GES'S) SHALL BE BONDED TOGETHER, AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS. ALL AVAILABLE GROUNDING ELECTRODES SHALL BE CONNECTED TOGETHER IN ACCORDANCE WITH THE NEC.
3. THE CONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR GROUND ELECTRODE SYSTEMS. USE OF OTHER METHODS MUST BE PRE-APPROVED BY THE ENGINEER IN WRITING.
4. THE CONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS ON TOWER SITES AND 10 OHMS OR LESS ON ROOFTOP SITES. WHEN ADDING ELECTRODES, CONTRACTOR SHALL MAINTAIN A MINIMUM DISTANCE BETWEEN THE ADDED ELECTRODE AND ANY OTHER EXISTING ELECTRODE EQUAL TO THE BURIED LENGTH OF THE ROD. IDEALLY, CONTRACTOR SHALL STRIVE TO KEEP THE SEPARATION DISTANCE EQUAL TO TWICE THE BURIED LENGTH OF THE RODS.
5. THE CONTRACTOR IS RESPONSIBLE FOR PROPERLY SEQUENCING GROUNDING AND UNDERGROUND CONDUIT INSTALLATION AS TO PREVENT ANY LOSS OF CONTINUITY IN THE GROUNDING SYSTEM OR DAMAGE TO THE CONDUIT.
6. METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH 6 AWG COPPER WIRE AND UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
7. METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO TRANSMISSION EQUIPMENT.
8. CONNECTIONS TO THE GROUND BUS SHALL NOT BE DOUBLED UP OR STACKED. BACK-TO-BACK CONNECTIONS ON OPPOSITE SIDES OF THE GROUND BUS ARE PERMITTED.
9. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
10. USE OF 90° BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45° BENDS CAN BE ADEQUATELY SUPPORTED. IN ALL CASES, BENDS SHALL BE MADE WITH A MINIMUM BEND RADIUS OF 8 INCHES.
11. EACH INTERIOR TRANSMISSION CABINET FRAME/PLINTH SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH 6 AWG STRANDED, GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRE UNLESS NOTED OTHERWISE IN THE DETAILS. EACH OUTDOOR CABINET FRAME/PLINTH SHALL BE DIRECTLY CONNECTED TO THE BURIED GROUND RING WITH 2 AWG SOLID TIN-PLATED COPPER WIRE UNLESS NOTED OTHERWISE IN THE DETAILS.
12. ALL EXTERIOR GROUND CONDUCTORS BETWEEN EQUIPMENT/GROUND BARS AND THE GROUND RING, SHALL BE 2 AWG SOLID TIN-PLATED COPPER UNLESS OTHERWISE INDICATED.
13. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE. CONNECTIONS TO ABOVE GRADE UNITS SHALL BE MADE WITH EXOTHERMIC WELDS WHERE PRACTICAL OR WITH 2 HOLE MECHANICAL TYPE BRASS CONNECTORS WITH STAINLESS STEEL HARDWARE, INCLUDING SET SCREWS. HIGH PRESSURE CRIMP CONNECTORS MAY ONLY BE USED WITH WRITTEN PERMISSION FROM SAI MARKET REPRESENTATIVE.
14. EXOTHERMIC WELDS SHALL BE PERMITTED ON TOWERS ONLY WITH THE EXPRESS APPROVAL OF THE TOWER MANUFACTURER OR THE CONTRACTORS STRUCTURAL ENGINEER.
15. ALL WIRE TO WIRE GROUND CONNECTIONS TO THE INTERIOR GROUND RING SHALL BE FORMED USING HIGH PRESS CRIMPS OR SPLIT BOLT CONNECTORS WHERE INDICATED IN THE DETAILS.
16. ON ROOFTOP SITES WHERE EXOTHERMIC WELDS ARE A FIRE HAZARD COPPER COMPRESSION CAP CONNECTORS MAY BE USED FOR WIRE TO WIRE CONNECTORS. 2 HOLE MECHANICAL TYPE BRASS CONNECTORS WITH STAINLESS STEEL HARDWARE, INCLUDING SET SCREWS SHALL BE USED FOR CONNECTION TO ALL ROOFTOP TRANSMISSION EQUIPMENT AND STRUCTURAL STEEL.
17. COAX BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BAR USING TWO-HOLE MECHANICAL TYPE BRASS CONNECTORS AND STAINLESS STEEL HARDWARE.
18. APPROVED ANTIOXIDANT COATINGS (I.E., CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
19. ALL EXTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL.
20. MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
21. BOND ALL METALLIC OBJECTS WITHIN 6 FT OF THE BURIED GROUND RING WITH 2 AWG SOLID TIN-PLATED COPPER GROUND CONDUCTOR. DURING EXCAVATION FOR NEW GROUND CONDUCTORS, IF EXISTING GROUND CONDUCTORS ARE ENCOUNTERED, BOND EXISTING GROUND CONDUCTORS TO NEW CONDUCTORS.
22. GROUND CONDUCTORS USED IN THE FACILITY GROUND AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR, SUCH AS METALLIC CONDUITS, METAL SUPPORT CLIPS OR SLEEVES THROUGH WALLS OR FLOORS. WHEN IT IS REQUIRED TO BE HOUSED IN CONDUIT TO MEET CODE REQUIREMENTS OR LOCAL CONDITIONS, NON-METALLIC MATERIAL SUCH AS PVC PLASTIC CONDUIT SHALL BE USED. WHERE USE OF METAL CONDUIT IS UNAVOIDABLE (E.G., NON-METALLIC CONDUIT PROHIBITED BY LOCAL CODE) THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT WITH LISTED BONDING FITTINGS.



NOTE:

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO CIGBE.

CONNECTION OF GROUND WIRES TO GROUNDING BAR (CIGBE) — 1

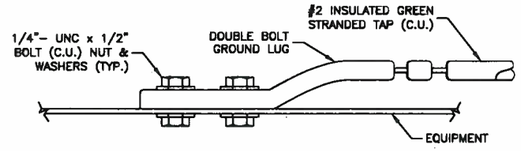


NOTES:

1. DOUBLING UP OR STACKING OF CONNECTIONS IS NOT PERMITTED.
2. OXIDE INHIBITING COMPOUND TO BE USED AT ALL LOCATIONS.

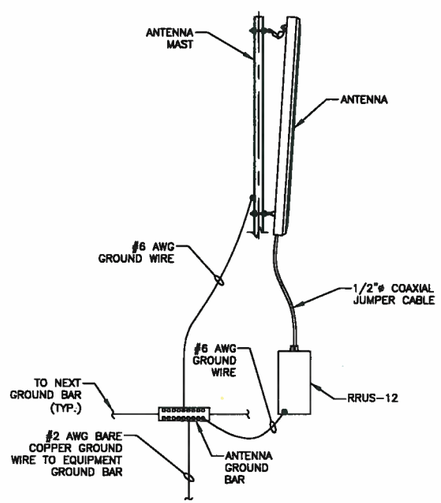
TYPICAL GROUND BAR MECHANICAL CONNECTION DETAIL — 2

SCALE: N.T.S.



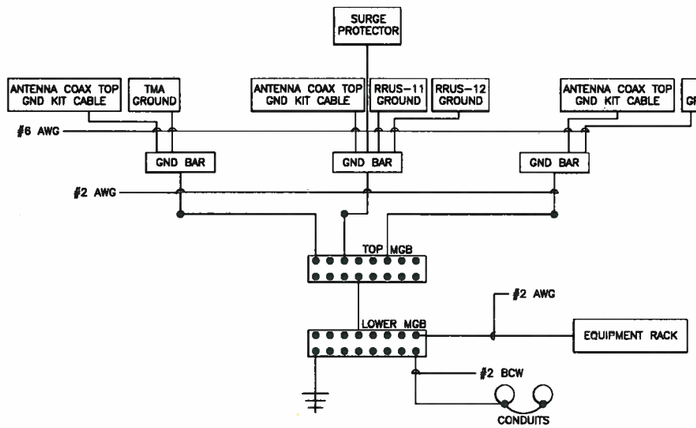
CONNECTION TO EQUIPMENT DETAIL — 3

SCALE: N.T.S.



TYPICAL ANTENNA GROUNDING DETAIL — 4

SCALE: N.T.S



NOTES:

1. BOND ANTENNA GROUNDING KIT CABLE TO TOP CIGBE
2. BOND ANTENNA GROUNDING KIT CABLE TO BOTTOM CIGBE.
3. SCHEMATIC GROUNDING DIAGRAM IS TYPICAL FOR EACH SECTOR.
4. GROUND ALL EQUIPMENT PER MANUFACTURER RECOMMENDATIONS.

SCHEMATIC GROUNDING DIAGRAM — 5

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STATE OF CONNECTICUT
JUNG YU
No. 23222
REGISTERED PROFESSIONAL ENGINEER
CONNECTICUT LICENSE NO. 23222

DRAWN BY:	JG
REVIEWED BY:	DER
CHECKED BY:	GHN
PROJECT NUMBER:	50055106
JOB NUMBER:	50065681
SITE ADDRESS:	

15 OAKDALE AVENUE
WINSTED, CT 06098
LITCHFIELD COUNTY

SHEET TITLE

GROUNDING NOTES & DETAILS

SHEET NUMBER

E-1

AMERICAN TOWER®
CORPORATION

Structural Analysis Report

Structure	:	**180 ft Monopole**
ATC Site Name	:	**Winchester CT 3, CT**
ATC Site Number	:	**302506**
Engineering Number	:	**OAA692405_C3_01**
Proposed Carrier	:	**AT&T Mobility**
Carrier Site Name	:	**Winsted**
Carrier Site Number	:	**CT1071**
Site Location	:	**15 Oakdale Avenue** **Winsted, CT 06098-1862** **41.921694,-73.049500**
County	:	**Litchfield**
Date	:	**January 5, 2017**
Max Usage	:	**105%**
Result	:	**Pass**

Prepared By:
Amir H. Tabarestani, E.I.
Structural Engineer II

Reviewed By:

COA: PEC.0001553

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Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 180 ft monopole to reflect the change in loading by AT&T Mobility.

Supporting Documents

Tower Drawings	EEI Job #7676, dated August 21, 2000
Foundation Drawing	SNET Project #F301804.10/F04, dated August 23, 2000
Geotechnical Report	Welti Project: Whalen's Hill, dated February 8, 2000
Modifications	ATC Job #42523432, dated October 24, 2008 ATC Job #50492933, dated October 15, 2012

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:	93 mph (3-Second Gust, V_{ASD}), 120 mph (3-Second Gust, V_{ULT})
Basic Wind Speed w/ Ice:	40 mph (3-Second Gust) w/ 1" radial ice concurrent
Code:	ANSI/TIA-222-G / 2012 IBC / 2016 Connecticut State Building Code
Structure Class:	III
Exposure Category:	B
Topographic Category:	1
Crest Height:	0 ft
Spectral Response:	Ss = 0.18, S_1 = 0.06
Site Class:	D - Stiff Soil

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 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

Elevation[1] (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
184.0	187.0	1	4' Omni	Low Profile Platform	(1) 7/8" Coax	USA Mobility
	184.0	1	Andrew ABT-DMDF-ADBH		(12) 1 5/8" Coax (2) 0.78" 8 AWG 6 (1) 3" Conduit (1) 0.40" Fiber	AT&T Mobility
		6	Powerwave LGP21401			
		3	Ericsson RRUS 11 (Band 12)			
		6	Powerwave 7770.00			
		3	KMW AM-X-CD-16-65-00T-RET			
174.0	174.0	-	-	Empty Low Profile Platform	-	--
163.0	163.0	3	Ericsson KRY 112 144/1	T-Arms	(12) 1 5/8" Coax (1) 1 1/4" Hybriflex	T-Mobile
		3	Ericsson AIR 21, 1.3M, B2A B4P			
		3	Ericsson AIR 21, 1.3M, B4A B2P			
152.0	152.0	1	Sinclair SD210-SF2P4SNM	Side Arm	(1) 1 5/8" Coax	Litchfield County Dispatch
146.0	147.0	1	Sinclair SC442D-HF1LDF(DXX-I30-G9-NUFP)	Side Arms	(7) 1 5/8" Coax (1) 1/2" Coax	Ct Police Dept.
	146.0	1	Bird 432-83H-01-T			
		1	Sinclair SC479-HF1LDF			
		2	Decibel DB809DK-XT			
140.0	140.0	2	Bird 432-83H-01-T	Side Arms	(2) 3/8" Coax (1) 7/8" Coax (1) 1/2" Coax	
	137.0	1	Telewave ANT150D (5 lbs)			
137.0		3	Alcatel-Lucent 800MHz RRH w/ Notch Filter	Platform w/ Handrails	(3) 1 1/4" Hybriflex (1) 7/8" Fiber	Sprint Nextel
		3	Alcatel-Lucent 1900MHz RRH			
		3	Alcatel-Lucent TD-RRH8x20-25 w/ Solar Shield			
		6	RFS APXVTM14-C-I20			
		3	RFS APXVSPP18-C-A20			
122.0	122.0	6	RFS FD9R6004/2C-3L	Low Profile Platform	(12) 1 5/8" Coax	Verizon
		1	A Antel BXA-171063-12BF-EDIN-X			
		2	A Antel BXA-171085-12BF-EDIN-X			
		2	Amp Antel BXA-70063-6CF-EDIN-2			
		4	Antel LPA-80080/6CF			
		2	Antel LPA-80063/6CF			
		1	Antel BXA-70040/6CF			
113.0	113.0	12	Decibel DB844H90E-XY	Low Profile Platform	(12) 1 1/4" Coax	Sprint Nextel
112.5	-	-	-	-	(24) 1 5/8" Coax	Verizon
111.0	111.0	3	RFS APXV18-206517S-C	Flush	(6) 1 5/8" Coax	Metro PCS
96.0	96.0	2	Andrew DB586	Side Arms	(2) 7/8" Coax (1) 1/2" Coax	Connecticut Light & Power Co.
		1	Bird 429-83H-01-T			
80.0	80.0	1	RFS PA6-65AC	Leg	(1) EW63	Ct Police Dept.
79.0	79.0	1	PCTEL GPS-TMG-HR-26N	Flush	(1) 1/2" Coax	Sprint Nextel
30.0	30.0	1	GPS	Flush	(1) 7/8" Coax	Verizon

Equipment to be Removed

Elevation[1] (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
184.0	184.0	3	Ericsson RRUS 11 (Band 12)	-	-	AT&T Mobility

Proposed Equipment

Elevation[1] (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
184.0	184.0	3	Ericsson RRUS-12 B2	Low Profile Platform	-	AT&T Mobility

[1]Mount elevation is defined as height above bottom of steel structure to the bottom of mount, RAD elevation is defined as center of antenna above ground level (AGL).

Structure Usages

Structural Component	Controlling Usage	Pass/Fail
Anchor Bolts	70%	Pass
Shaft	78%	Pass
Base Plate	29%	Pass
Reinforcement	79%	Pass

Foundations

Reaction Component	Analysis Reactions	% of Usage
Moment (Kips-Ft)	4,6967.3	71%
Shear (Kips)	42.7	105%

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) (°)
184.0	Ericsson RRUS-12 B2	AT&T Mobility	3.561	2.480
80.0	RFS PA6-65AC	CT Police Dept.	0.623	0.908

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

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Standard Conditions

All engineering services are performed on the basis that the information used is current and correct. This information may consist of, but is not necessary limited, to:

-- Information supplied by the client regarding the structure itself, antenna, mounts and feed line loading on the structure and its components, or other relevant information.

-- Information from drawings in the possession of American Tower Corporation, or generated by field inspections or measurements of the structure.

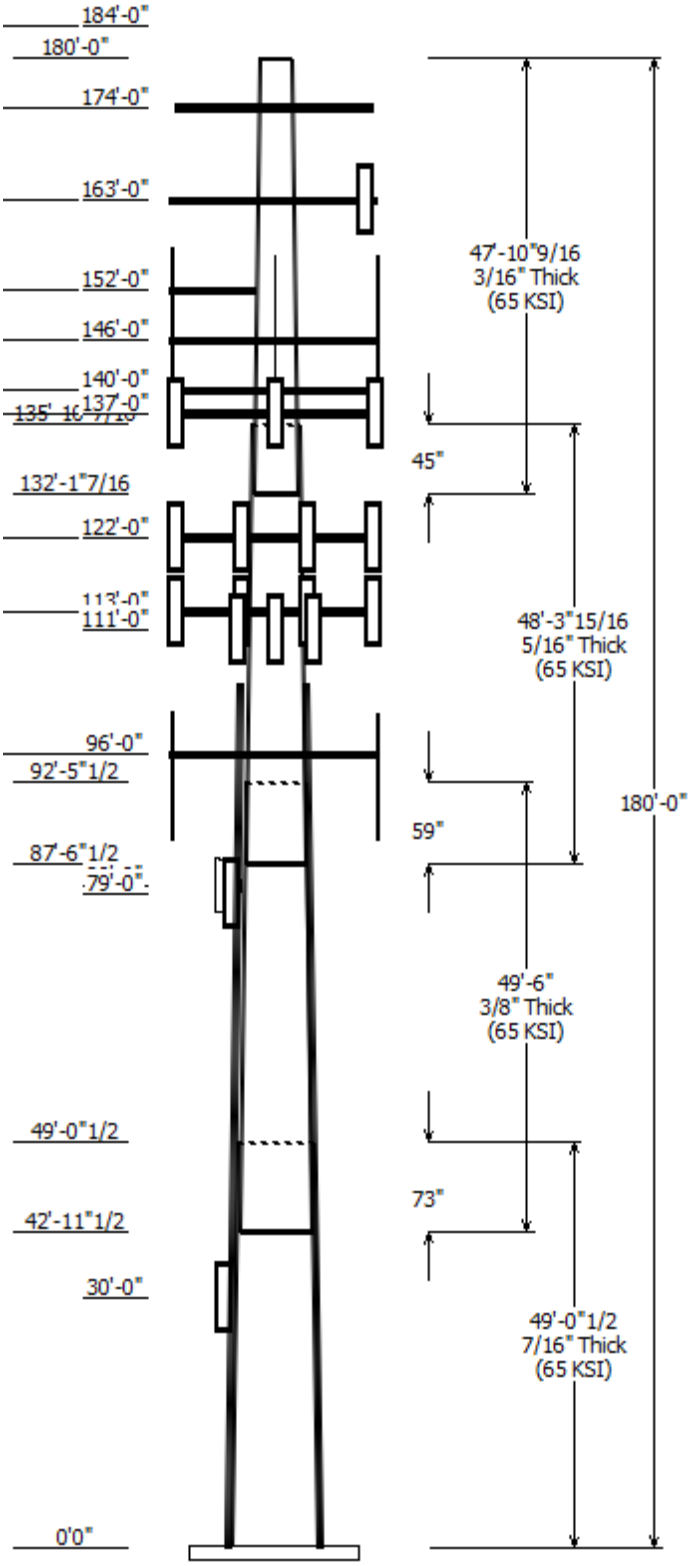
It is the responsibility of the client to ensure that the information provided to A.T. Engineering Service, PLLC and used in the performance of our engineering services is correct and complete. In the absence of information to the contrary, we assume that all structures were constructed in accordance with the drawings and specifications and that their capacity has not significantly changed from the "as new" condition.

Unless explicitly agreed by both the client and American Tower Corporation, all services will be performed in accordance with the current revision of ANSI/TIA -222. The design basic wind speed will be determined based on the minimum basic wind speed as prescribed in ANSI/TIA-222. Although every effort is taken to ensure that the loading considered is adequate to meet the requirements of all applicable regulatory entities, we can provide no assurance to meet any other local and state codes or requirements. If wind and ice loads or other relevant parameters are to be different from the minimum values recommended by the codes, the client shall specify the exact requirement.

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 we supply.

Job Information

Pole :	302506	Code:	ANSI/TIA-222-G
Description :	180 ft EEI Monopole		
Client :	AT&T Mobility	Struct Class :	III
Location :	Winchester CT 3, CT		
Shape :	18 Sides	Exposure :	B
Height :	180.00 (ft)	Topo :	1
Base Elev (ft):	0.00		
Taper:	0.219444 (in/ft)		

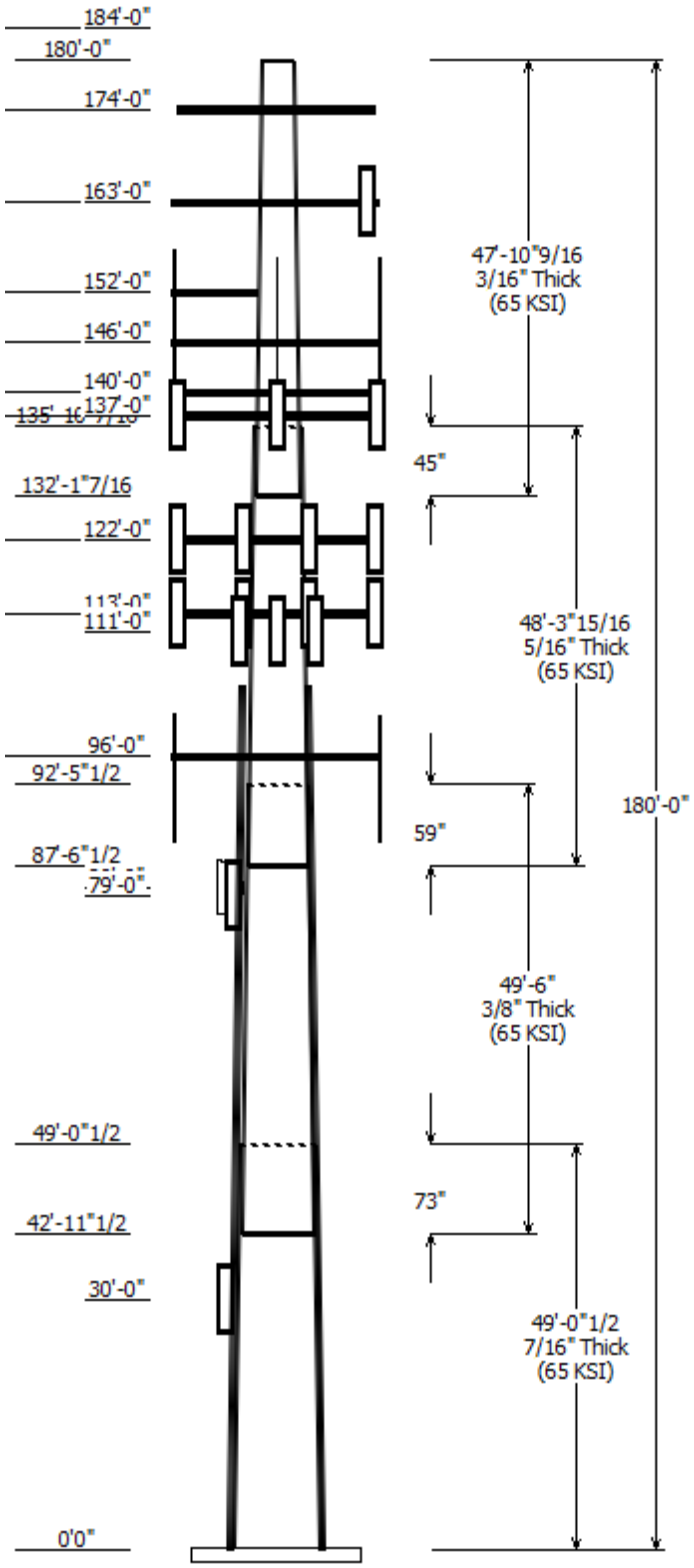


Sections Properties

Shaft Section	Length (ft)	Diameter (in) Accross Flats Top	Bottom	Thick (in)	Joint Type	Overlap Length (in)	Taper (in/ft)	Steel Grade (ksi)
1	49.040	41.98	52.75	0.438		0.000	0.219400	65
2	49.500	33.21	44.07	0.375	Slip Joint	73.000	0.219400	65
3	48.330	24.30	34.91	0.313	Slip Joint	59.000	0.219400	65
4	47.880	15.00	25.50	0.188	Slip Joint	45.000	0.219400	65

Discrete Appurtenance

Attach Elev (ft)	Force Elev (ft)	Qty	Description
184.000	187.000	1	4' Omni
184.000	184.000	3	Ericsson RRUS-12 B2
184.000	184.000	3	Ericsson RRUS 11 (Band 12)
184.000	184.000	1	Flat Low Profile Platform
184.000	184.000	3	KMW AM-X-CD-16-65-00T-RET
184.000	184.000	6	Powerwave Allgon 7770.00
184.000	184.000	6	Powerwave Allgon LGP21401
184.000	184.000	1	Andrew ABT-DMDF-ADBH
174.000	174.000	1	Empty Low Profile Platform
163.000	163.000	3	Round T-Arm
163.000	163.000	3	Ericsson AIR 21, 1.3M, B4A B2P
163.000	163.000	3	Ericsson AIR 21, 1.3M, B2A B4P
163.000	163.000	3	Ericsson KRY 112 144/1
152.000	152.000	1	Round Side Arm
152.000	152.000	1	Sinclair SD210-SF2P4SNM
146.000	146.000	1	Sinclair SC479-HF1LDF
146.000	147.000	1	Sinclair SC442D-HF1LDF(DXX-
146.000	146.000	3	Round Side Arm
146.000	146.000	2	Decibel DB809DK-XT
146.000	146.000	1	Bird 432-83H-01-T
140.000	140.000	3	Round Side Arm
140.000	137.000	1	Telewave ANT150D (5 lbs)
140.000	140.000	2	Bird 432-83H-01-T
137.000	137.000	1	Flat Platform w/ Handrails
137.000	137.000	3	RFS APXVSPP18-C-A20
137.000	137.000	6	RFS APXVTM14-C-I20
137.000	137.000	3	Alcatel-Lucent TD-RRH8x20-25
137.000	137.000	3	Alcatel-Lucent 1900MHz RRH
137.000	137.000	3	Alcatel-Lucent 800 MHz RRH
122.000	122.000	1	Round Low Profile Platform
122.000	122.000	1	Amphenol Antel BXA-
122.000	122.000	2	Antel LPA-80063/6CF
122.000	122.000	4	Antel LPA-80080/6CF
122.000	122.000	2	Amp Antel BXA-70063-6CF-
122.000	122.000	1	A Antel BXA-171063-12BF-EDIN-
122.000	122.000	2	A Antel BXA-171085-12BF-EDIN-
122.000	122.000	6	RFS FD9R6004/2C-3L
113.000	113.000	1	Round Low Profile Platform
113.000	113.000	12	Decibel DB844H90E-XY
111.000	111.000	3	RFS APXV18-206517S-C
96.000	96.000	3	Flat Side Arm
96.000	96.000	1	Bird 429-83H-01-T
96.000	92.000	1	Andrew DB586
96.000	96.000	1	Andrew DB586



80.000	80.000	1	RFS PA6-65AC
79.000	79.000	1	PCTEL GPS-TMG-HR-26N
30.000	30.000	1	GPS

Linear Appurtenance

Elev (ft) From	To	Description	Exposed To Wind
112.5	122.0	1 5/8" Coax	Yes
112.5	163.0	1 5/8" Coax	Yes
0.000	184.0	0.40" Fiber Cable	No
0.000	184.0	0.78" 8 AWG 6	No
0.000	184.0	1 5/8" Coax	No
0.000	184.0	3" Conduit	No
0.000	184.0	7/8" Coax	No
0.000	137.0	1 1/4" Hybriflex	No
0.000	137.0	7/8" Fiber	No
0.000	140.0	1/2" Coax	No
0.000	140.0	3/8" Coax	No
0.000	140.0	7/8" Coax	No
0.000	146.0	1 5/8" Coax	No
0.000	146.0	1/2" Coax	No
0.000	152.0	1 5/8" Coax	No
0.000	163.0	1 1/4" Hybriflex	No
0.000	30.000	7/8" Coax	Yes
0.000	79.000	1/2" Coax	No
0.000	80.000	EW63	No
0.000	96.000	1/2" Coax	No
0.000	96.000	7/8" Coax	No
0.000	111.0	1 5/8" Coax	Yes
0.000	112.5	1 5/8" Coax	Yes
0.000	112.5	1 5/8" Coax	Yes
0.000	112.5	Reinforcement	Yes
0.000	113.0	1 1/4" Coax	Yes

Load Cases

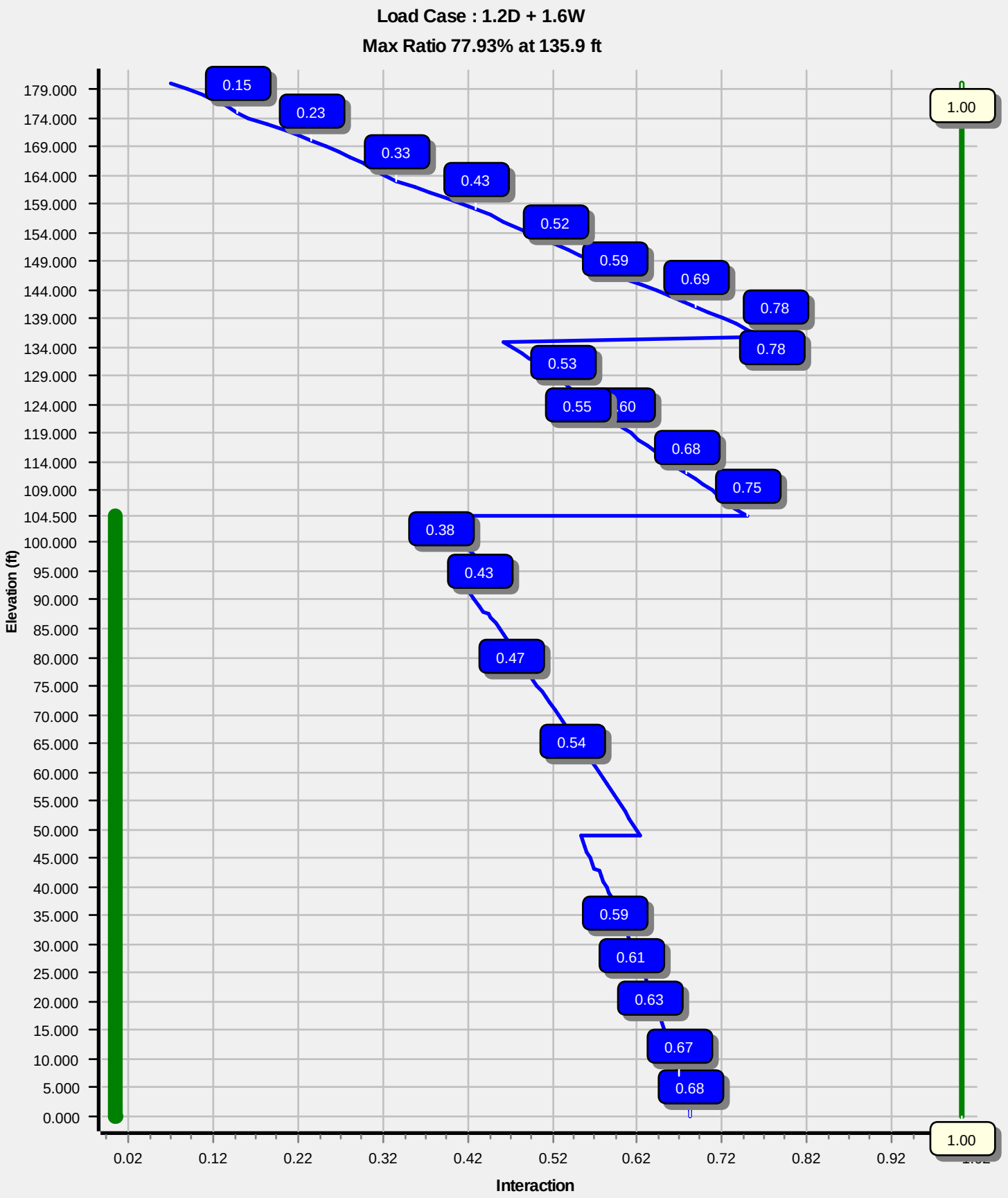
1.2D + 1.6W	93 mph with No Ice
0.9D + 1.6W	93 mph with No Ice (Reduced DL)
1.2D + 1.0Di + 1.0Wi	40 mph with 1.00 in Radial Ice
(1.2 + 0.2Sds) * DL + E	Seismic Equivalent Lateral Forces Method
(1.2 + 0.2Sds) * DL + E	Seismic Equivalent Modal Analysis Method
(0.9 - 0.2Sds) * DL + E	Seismic (Reduced DL) Equivalent Lateral
(0.9 - 0.2Sds) * DL + E	Seismic (Reduced DL) Equivalent Modal
1.0D + 1.0W	Serviceability 60 mph

Reactions

Load Case	Moment (kip-ft)	Shear (kip)	Axial (kip)
1.2D + 1.6W	4967.30	42.71	72.39
0.9D + 1.6W	4804.69	41.36	54.29
1.2D + 1.0Di + 1.0Wi	958.45	7.09	155.02
(1.2 + 0.2Sds) * DL + E ELFM	325.05	2.47	71.35
(1.2 + 0.2Sds) * DL + E EMAM	243.90	2.61	71.35
(0.9 - 0.2Sds) * DL + E ELFM	319.93	2.47	49.71
(0.9 - 0.2Sds) * DL + E EMAM	239.84	2.61	49.71
1.0D + 1.0W	1263.08	10.81	60.34

Dish Deflections

Load Case	Attach Elev (ft)	Deflection (in)	Rotation (deg)
1.0D + 1.0W	80.00	7.472	0.908


Load Case : 1.2D + 1.6W
Max Ratio 77.93% at 135.9 ft
Elevation (ft)
179.000
174.000
169.000
164.000
159.000
154.000
149.000
144.000
139.000
134.000
129.000
124.000
119.000
114.000
109.000
104.500
100.000
95.000
90.000
85.000
80.000
75.000
70.000
65.000
60.000
55.000
50.000
45.000
40.000
35.000
30.000
25.000
20.000
15.000
10.000
5.000
0.000
0.15
0.23
0.33
0.43
0.52
0.59
0.69
0.78
0.78
0.53
0.55
60
0.68
0.75
0.38
0.43
0.47
0.54
0.59
0.61
0.63
0.67
0.68
1.00
1.00
0.02
0.12
0.22
0.32
0.42
0.52
0.62
0.72
0.82
0.92
Interaction

Site Number:	302506	Code: ANSI/TIA-222-G	
Site Name:	Winchester CT 3, CT	Engineering Number:OAA692405_C3_01	1/5/2017 2:51:53 PM
Customer:	AT&T Mobility		

Analysis Parameters

Location:	Litchfield County, CT		
Code:	ANSI/TIA-222-G	Height (ft):	180
Shape:	18 Sides	Base Diameter (in):	52.75
Pole Type:	Taper	Top Diameter (in):	15.00
Pole Manfacturer:	EEI	Taper (in/ft) :	0.219

Ice & Wind Parameters

Structure Class:	III	Design Wind Speed Without Ice:	93 mph
Exposure Category:	B	Design Wind Speed With Ice:	40 mph
Topographic Category:	1	Operational Wind Speed:	60 mph
Crest Height:	0.0 ft	Design Ice Thickness:	1.00 in

Seismic Parameters

Analysis Method:	Equivalent Modal Analysis & Equivalent Lateral Force Methods				
Site Class:	D - Stiff Soil				
Period Based on Rayleigh Method (sec):	2.85				
T_L (sec):	8	p:	1.3	C_s:	0.037
S_s:	0.177	S_1:	0.065	C_s Max:	0.037
F_a:	1.600	F_v:	2.400	C_s Min:	0.030
S_{ds}:	0.189	S_{d1}:	0.104		

Load Cases

1.2D + 1.6W	93 mph with No Ice
0.9D + 1.6W	93 mph with No Ice (Reduced DL)
1.2D + 1.0Di + 1.0Wi	40 mph with 1.00 in Radial Ice
(1.2 + 0.2Sds) * DL + E ELFM	Seismic Equivalent Lateral Forces Method
(1.2 + 0.2Sds) * DL + E EMAM	Seismic Equivalent Modal Analysis Method
(0.9 - 0.2Sds) * DL + E ELFM	Seismic (Reduced DL) Equivalent Lateral Forces Method
(0.9 - 0.2Sds) * DL + E EMAM	Seismic (Reduced DL) Equivalent Modal Analysis Method
1.0D + 1.0W	Serviceability 60 mph

Site Number: 302506 Code: ANSI/TIA-222-G

Site Name: Winchester CT 3, CT Engineering Number:OAA692405_C3_01 1/5/2017 2:51:53 PM

Customer: AT&T Mobility

Shaft Section Properties

Sect Info	Length (ft)	Thick (in)	Fy (ksi)	Joint Type	Slip Joint Len (in)	Weight (lb)	Bottom Dia (in)	Bottom Elev (ft)	Bottom Area (in²)	Bottom Ix (in⁴)	Bottom W/t Ratio	Bottom D/t Ratio	Top Dia (in)	Top Elev (ft)	Top Area (in²)	Top Ix (in⁴)	Top W/t Ratio	Top D/t Ratio	Taper (in/ft)
1-18	49.040	0.4375	65		0.00	10,875	52.75	0.00	72.64	25115.3	19.85	120.57	41.98	49.04	57.70	12585.4	15.51	95.97	0.219444
2-18	49.500	0.3750	65	Slip	73.00	7,672	44.07	42.96	52.01	12548.0	19.31	117.53	33.21	92.46	39.08	5323.8	14.21	88.56	0.219444
3-18	48.330	0.3125	65	Slip	59.00	4,779	34.91	87.54	34.32	5191.7	18.29	111.73	24.30	135.87	23.80	1731.6	12.31	77.79	0.219444
4-18	47.880	0.1875	65	Slip	45.00	1,946	25.50	132.12	15.07	1220.4	22.58	136.04	15.00	180.00	8.81	244.4	12.70	80.00	0.219444
				Shaft Weight		25,271													

Discrete Appurtenance Properties

Attach Elev (ft)	Description	Qty	No Ice Weight (lb)	No Ice EPAa (sf)	No Ice Orientation Factor	Ice Weight (lb)	Ice EPAa (sf)	Ice Orientation Factor	Distance From Face (ft)	Vert Ecc (ft)
184.00	4' Omni	1	10.00	1.000	1.00	135.13	2.602	1.00	0.000	3.000
184.00	Andrew ABT-DMDF-ADBH	1	1.10	0.050	0.50	17.77	0.288	0.50	0.000	0.000
184.00	Ericsson RRUS 11 (Band 12)	3	50.00	2.570	0.50	212.43	3.747	0.50	0.000	0.000
184.00	Ericsson RRUS-12 B2	3	58.00	3.150	0.50	195.55	5.124	0.50	0.000	0.000
184.00	Flat Low Profile Platform	1	1500.00	26.100	1.00	2,601.64	58.563	1.00	0.000	0.000
184.00	KMW AM-X-CD-16-65-00T-	3	48.50	8.020	0.67	415.18	10.316	0.67	0.000	0.000
184.00	Powerwave Allgon 7770.00	6	35.00	5.510	0.65	301.91	7.390	0.65	0.000	0.000
184.00	Powerwave Allgon LGP21401	6	14.10	1.100	0.50	87.82	1.954	0.50	0.000	0.000
174.00	Empty Low Profile Platform	1	1500.00	26.100	1.00	2,597.90	58.452	1.00	0.000	0.000
163.00	Ericsson AIR 21, 1.3M, B2A	3	83.00	6.050	0.71	405.52	7.976	0.71	0.000	0.000
163.00	Ericsson AIR 21, 1.3M, B4A	3	81.50	6.090	0.70	403.94	8.022	0.70	0.000	0.000
163.00	Ericsson KRY 112 144/1	3	11.00	0.410	0.50	49.87	0.893	0.50	0.000	0.000
163.00	Round T-Arm	3	250.00	9.700	0.67	601.85	23.579	0.67	0.000	0.000
152.00	Round Side Arm	1	150.00	5.200	0.67	272.29	9.742	0.67	0.000	0.000
152.00	Sinclair SD210-SF2P4SNM	1	8.30	1.370	1.00	85.79	8.960	1.00	0.000	0.000
146.00	Bird 432-83H-01-T	1	25.00	1.400	0.50	97.18	2.706	0.50	0.000	0.000
146.00	Decibel DB809DK-XT	2	64.00	6.350	1.00	391.75	18.960	1.00	0.000	0.000
146.00	Round Side Arm	3	150.00	5.200	0.67	271.79	9.724	0.67	0.000	0.000
146.00	Sinclair SC442D-HF1LDF(DXX-	1	79.00	10.480	1.00	847.76	22.652	1.00	0.000	1.000
146.00	Sinclair SC479-HF1LDF	1	34.00	5.030	1.00	536.83	21.442	1.00	0.000	0.000
140.00	Bird 432-83H-01-T	2	25.00	1.400	0.50	96.87	2.700	0.50	0.000	0.000
140.00	Round Side Arm	3	150.00	5.200	0.67	271.28	9.705	0.67	0.000	0.000
140.00	Telewave ANT150D (5 lbs)	1	5.00	1.090	0.50	19.37	2.102	0.50	0.000	-3.000
137.00	Alcatel-Lucent 1900MHz RRH	3	44.00	3.260	0.50	277.37	3.661	0.50	0.000	0.000
137.00	Alcatel-Lucent 800 MHz RRH	3	61.80	2.500	0.50	260.20	3.211	0.50	0.000	0.000
137.00	Alcatel-Lucent TD-RRH8x20-	3	70.00	4.050	0.50	226.36	6.249	0.50	0.000	0.000
137.00	Flat Platform w/ Handrails	1	2000.00	42.400	1.00	4,351.19	77.096	1.00	0.000	0.000
137.00	RFS APXVSPP18-C-A20	3	57.00	8.020	0.69	429.14	10.248	0.69	0.000	0.000
137.00	RFS APXVTM14-C-I20	6	52.90	6.340	0.66	280.68	9.943	0.66	0.000	0.000
122.00	A Antel BXA-171063-12BF-	1	15.00	4.730	0.88	246.90	6.809	0.88	0.000	0.000
122.00	A Antel BXA-171085-12BF-	2	15.00	4.730	0.79	246.90	6.809	0.79	0.000	0.000
122.00	Amp Antel BXA-70063-6CF-	2	17.00	7.570	0.75	340.74	9.724	0.75	0.000	0.000
122.00	Amphenol Antel BXA-	1	37.50	14.250	0.70	599.21	16.837	0.70	0.000	0.000
122.00	Antel LPA-80063/6CF	2	27.00	9.590	0.82	541.25	11.893	0.82	0.000	0.000
122.00	Antel LPA-80080/6CF	4	21.00	8.630	0.65	379.43	6.361	0.65	0.000	0.000
122.00	RFS FD9R6004/2C-3L	6	3.10	0.360	0.50	33.86	0.809	0.50	0.000	0.000
122.00	Round Low Profile Platform	1	1500.00	21.700	1.00	2,559.47	53.095	1.00	0.000	0.000
113.00	Decibel DB844H90E-XY	12	14.00	3.610	0.74	221.58	4.538	0.74	0.000	0.000
113.00	Round Low Profile Platform	1	1500.00	21.700	1.00	2,551.35	52.854	1.00	0.000	0.000
111.00	RFS APXV18-206517S-C	3	26.40	5.160	0.68	252.45	7.236	0.68	0.000	0.000
96.00	Andrew DB586	1	8.30	0.740	1.00	108.36	2.685	1.00	0.000	0.000
96.00	Andrew DB586	1	8.30	0.740	1.00	108.36	2.685	1.00	0.000	-4.000
96.00	Bird 429-83H-01-T	1	20.00	1.050	0.50	101.04	1.699	0.50	0.000	0.000
96.00	Flat Side Arm	3	150.00	6.300	0.67	266.77	10.224	0.67	0.000	0.000
80.00	RFS PA6-65AC	1	278.00	47.050	1.00	1,018.66	54.242	1.00	0.000	0.000
79.00	PCTEL GPS-TMG-HR-26N	1	0.60	0.090	1.00	24.30	0.495	1.00	0.000	0.000
30.00	GPS	1	10.00	1.000	1.00	72.80	1.524	1.00	0.000	0.000

Totals 116 13742.30 44,209.92 Number of Loadings : 47

Linear Appurtenance Properties

Elev From (ft)	Elev To (ft)	Qty	Description	Coax Diameter (in)	Coax Weight (lb/ft)	Flat	Projected Width (in)	Exposed To Wind	Carrier
0.00	184.00	1	0.40" Fiber Cable	0.40	0.09	N	0.00	N	AT&T Mobility
0.00	184.00	2	0.78" 8 AWG 6	0.78	0.59	N	0.00	N	AT&T Mobility
0.00	184.00	12	1 5/8" Coax	1.98	0.82	N	0.00	N	AT&T Mobility
0.00	184.00	1	3" Conduit	3.50	7.58	N	0.00	N	AT&T Mobility
0.00	184.00	1	7/8" Coax	1.09	0.33	N	0.00	N	USA Mobility
0.00	163.00	1	1 1/4" Hybriflex	1.54	1.00	N	0.00	N	T-Mobile
112.50	163.00	12	1 5/8" Coax	1.98	0.82	N	3.96	Y	T-Mobile
0.00	152.00	1	1 5/8" Coax	1.98	0.82	N	0.00	N	Litchfield County Dispatch
0.00	146.00	7	1 5/8" Coax	1.98	0.82	N	0.00	N	CT Police Dept.
0.00	146.00	1	1/2" Coax	0.63	0.15	N	0.00	N	CT Police Dept.
0.00	140.00	1	1/2" Coax	0.63	0.15	N	0.00	N	CT Police Dept.
0.00	140.00	2	3/8" Coax	0.44	0.08	N	0.00	N	CT Police Dept.
0.00	140.00	1	7/8" Coax	1.09	0.33	N	0.00	N	CT Police Dept.
0.00	137.00	3	1 1/4" Hybriflex	1.54	1.00	N	0.00	N	Sprint Nextel
0.00	137.00	1	7/8" Fiber	0.88	0.70	N	0.00	N	Sprint Nextel
112.50	122.00	12	1 5/8" Coax	1.98	0.82	N	3.96	Y	Verizon
0.00	113.00	12	1 1/4" Coax	1.55	0.63	N	4.65	Y	Sprint Nextel
0.00	112.50	12	1 5/8" Coax	1.98	0.82	N	0.00	Y	T-Mobile
0.00	112.50	12	1 5/8" Coax	1.98	0.82	N	0.00	Y	Verizon
0.00	112.50	1	Reinforcement	9.27	43.00	N	4.00	Y	--
0.00	111.00	6	1 5/8" Coax	1.98	0.82	N	0.00	Y	Metro PCS
0.00	96.00	1	1/2" Coax	0.63	0.15	N	0.00	N	Connecticut Light & Power CO.
0.00	96.00	2	7/8" Coax	1.09	0.33	N	0.00	N	Connecticut Light & Power CO.
0.00	80.00	1	EW63	2.01	0.51	N	0.00	N	CT Police Dept.
0.00	79.00	1	1/2" Coax	0.63	0.15	N	0.00	N	Sprint Nextel
0.00	30.00	1	7/8" Coax	1.09	0.33	N	0.00	Y	Verizon

Additional Steel

Elev From (ft)	Elev To (ft)	Qty	Description	Fy (ksi)	Offset (in)	Intermediate Connections				
						Description	Spacing (in)	Len (in)	Connectors	Continuation?
0.00	104.5	4	SOL #20 All Thread	80	2.19	6" Angle Bracket	30.0	3.13	5/8" A36 U-Bolt	No

Segment Properties (Max Len : 1. 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)	Additional Reinforcing Ix (in^4)	Additional Reinforcing Weight (lb)
0.00		0.4375	52.750	72.640	25,115.3	19.85	120.57	78.1	937.8	0.0	0.0	19.64	8,846	0.0
1.00		0.4375	52.531	72.335	24,800.6	19.76	120.07	78.2	929.9	0.0	246.7	19.64	8,781	66.8
2.00		0.4375	52.311	72.030	24,488.5	19.67	119.57	78.3	922.0	0.0	245.6	19.64	8,715	66.8
3.00		0.4375	52.092	71.726	24,179.0	19.58	119.07	78.4	914.2	0.0	244.6	19.64	8,650	66.8
4.00		0.4375	51.872	71.421	23,872.2	19.50	118.57	78.5	906.4	0.0	243.5	19.64	8,585	66.8
5.00		0.4375	51.653	71.116	23,567.9	19.41	118.06	78.6	898.7	0.0	242.5	19.64	8,521	66.8
6.00		0.4375	51.433	70.812	23,266.3	19.32	117.56	78.7	891.0	0.0	241.5	19.64	8,457	66.8
7.00		0.4375	51.214	70.507	22,967.2	19.23	117.06	78.8	883.3	0.0	240.4	19.64	8,393	66.8
8.00		0.4375	50.994	70.202	22,670.7	19.14	116.56	78.9	875.6	0.0	239.4	19.64	8,329	66.8
9.00		0.4375	50.775	69.897	22,376.8	19.05	116.06	79.0	868.0	0.0	238.4	19.64	8,265	66.8
10.00		0.4375	50.556	69.593	22,085.4	18.96	115.56	79.1	860.4	0.0	237.3	19.64	8,202	66.8
11.00		0.4375	50.336	69.288	21,796.6	18.88	115.05	79.2	852.9	0.0	236.3	19.64	8,139	66.8
12.00		0.4375	50.117	68.983	21,510.2	18.79	114.55	79.3	845.4	0.0	235.3	19.64	8,076	66.8
13.00		0.4375	49.897	68.679	21,226.5	18.70	114.05	79.4	837.9	0.0	234.2	19.64	8,013	66.8
14.00		0.4375	49.678	68.374	20,945.2	18.61	113.55	79.5	830.4	0.0	233.2	19.64	7,951	66.8
15.00		0.4375	49.458	68.069	20,666.4	18.52	113.05	79.6	823.0	0.0	232.1	19.64	7,889	66.8
16.00		0.4375	49.239	67.764	20,390.1	18.43	112.55	79.7	815.6	0.0	231.1	19.64	7,827	66.8
17.00		0.4375	49.019	67.460	20,116.3	18.35	112.04	79.8	808.3	0.0	230.1	19.64	7,765	66.8
18.00		0.4375	48.800	67.155	19,844.9	18.26	111.54	79.9	801.0	0.0	229.0	19.64	7,704	66.8
19.00		0.4375	48.581	66.850	19,576.0	18.17	111.04	80.0	793.7	0.0	228.0	19.64	7,643	66.8
20.00		0.4375	48.361	66.546	19,309.5	18.08	110.54	80.1	786.4	0.0	227.0	19.64	7,582	66.8
21.00		0.4375	48.142	66.241	19,045.5	17.99	110.04	80.2	779.2	0.0	225.9	19.64	7,521	66.8
22.00		0.4375	47.922	65.936	18,783.8	17.90	109.54	80.3	772.0	0.0	224.9	19.64	7,461	66.8
23.00		0.4375	47.703	65.631	18,524.6	17.82	109.03	80.4	764.9	0.0	223.8	19.64	7,401	66.8
24.00		0.4375	47.483	65.327	18,267.8	17.73	108.53	80.6	757.8	0.0	222.8	19.64	7,341	66.8
25.00		0.4375	47.264	65.022	18,013.3	17.64	108.03	80.7	750.7	0.0	221.8	19.64	7,281	66.8
26.00		0.4375	47.044	64.717	17,761.3	17.55	107.53	80.8	743.6	0.0	220.7	19.64	7,222	66.8
27.00		0.4375	46.825	64.413	17,511.6	17.46	107.03	80.9	736.6	0.0	219.7	19.64	7,162	66.8
28.00		0.4375	46.606	64.108	17,264.2	17.37	106.53	81.0	729.6	0.0	218.7	19.64	7,103	66.8
29.00		0.4375	46.386	63.803	17,019.2	17.28	106.03	81.1	722.7	0.0	217.6	19.64	7,045	66.8
30.00		0.4375	46.167	63.498	16,776.5	17.20	105.52	81.2	715.7	0.0	216.6	19.64	6,986	66.8
31.00		0.4375	45.947	63.194	16,536.2	17.11	105.02	81.3	708.9	0.0	215.6	19.64	6,928	66.8
32.00		0.4375	45.728	62.889	16,298.1	17.02	104.52	81.4	702.0	0.0	214.5	19.64	6,870	66.8
33.00		0.4375	45.508	62.584	16,062.4	16.93	104.02	81.5	695.2	0.0	213.5	19.64	6,812	66.8
34.00		0.4375	45.289	62.280	15,828.9	16.84	103.52	81.6	688.4	0.0	212.4	19.64	6,755	66.8
35.00		0.4375	45.069	61.975	15,597.7	16.75	103.02	81.7	681.6	0.0	211.4	19.64	6,698	66.8
36.00		0.4375	44.850	61.670	15,368.7	16.67	102.51	81.8	674.9	0.0	210.4	19.64	6,641	66.8
37.00		0.4375	44.631	61.365	15,142.0	16.58	102.01	81.9	668.2	0.0	209.3	19.64	6,584	66.8
38.00		0.4375	44.411	61.061	14,917.6	16.49	101.51	82.0	661.6	0.0	208.3	19.64	6,527	66.8
39.00		0.4375	44.192	60.756	14,695.4	16.40	101.01	82.1	655.0	0.0	207.3	19.64	6,471	66.8
40.00		0.4375	43.972	60.451	14,475.4	16.31	100.51	82.2	648.4	0.0	206.2	19.64	6,415	66.8
41.00		0.4375	43.753	60.147	14,257.6	16.22	100.01	82.3	641.8	0.0	205.2	19.64	6,359	66.8
42.00		0.4375	43.533	59.842	14,042.0	16.13	99.50	82.4	635.3	0.0	204.1	19.64	6,304	66.8
42.96	Bot - Section 2	0.4375	43.323	59.550	13,837.8	16.05	99.02	82.5	629.1	0.0	194.3	19.64	6,251	63.9
43.00		0.4375	43.314	59.537	13,828.6	16.05	99.00	82.5	628.8	0.0	16.5	19.64	6,439	2.9
44.00		0.4375	43.094	59.232	13,617.3	15.96	98.50	82.6	622.4	0.0	378.6	19.64	6,383	66.8
45.00		0.4375	42.875	58.928	13,408.2	15.87	98.00	82.6	616.0	0.0	376.6	19.64	6,327	66.8
46.00		0.4375	42.656	58.623	13,201.3	15.78	97.50	82.6	609.6	0.0	374.7	19.64	6,272	66.8
47.00		0.4375	42.436	58.318	12,996.5	15.69	97.00	82.6	603.2	0.0	372.8	19.64	6,216	66.8
48.00		0.4375	42.217	58.014	12,793.9	15.60	96.50	82.6	596.9	0.0	370.9	19.64	6,162	66.8
49.00		0.4375	41.997	57.709	12,593.3	15.52	95.99	82.6	590.6	0.0	368.9	19.64	6,107	66.8
49.04	Top - Section 1	0.3750	42.738	50.421	11,432.7	18.69	113.97	79.4	526.9	0.0	14.7	19.64	6,105	2.7
50.00		0.3750	42.528	50.171	11,263.0	18.59	113.41	79.5	521.6	0.0	164.3	19.64	6,053	64.1
51.00		0.3750	42.308	49.909	11,088.0	18.48	112.82	79.7	516.2	0.0	170.3	19.64	5,998	66.8
52.00		0.3750	42.089	49.648	10,914.8	18.38	112.24	79.8	510.8	0.0	169.4	19.64	5,944	66.8
53.00		0.3750	41.869	49.387	10,743.5	18.28	111.65	79.9	505.4	0.0	168.5	19.64	5,891	66.8
54.00		0.3750	41.650	49.126	10,573.9	18.17	111.07	80.0	500.0	0.0	167.6	19.64	5,837	66.8
55.00		0.3750	41.431	48.865	10,406.2	18.07	110.48	80.1	494.7	0.0	166.7	19.64	5,784	66.8

56.00		0.3750	41.211	48.603	10,240.2	17.97	109.90	80.3	489.4	0.0	165.8	19.64	5,731	66.8
57.00		0.3750	40.992	48.342	10,076.0	17.86	109.31	80.4	484.1	0.0	164.9	19.64	5,678	66.8
58.00		0.3750	40.772	48.081	9,913.6	17.76	108.73	80.5	478.9	0.0	164.1	19.64	5,626	66.8
59.00		0.3750	40.553	47.820	9,752.9	17.66	108.14	80.6	473.7	0.0	163.2	19.64	5,574	66.8
60.00		0.3750	40.333	47.559	9,594.0	17.55	107.56	80.8	468.5	0.0	162.3	19.64	5,522	66.8
61.00		0.3750	40.114	47.298	9,436.8	17.45	106.97	80.9	463.4	0.0	161.4	19.64	5,470	66.8
62.00		0.3750	39.894	47.036	9,281.3	17.35	106.39	81.0	458.2	0.0	160.5	19.64	5,419	66.8
63.00		0.3750	39.675	46.775	9,127.5	17.24	105.80	81.1	453.1	0.0	159.6	19.64	5,367	66.8
64.00		0.3750	39.456	46.514	8,975.5	17.14	105.21	81.2	448.1	0.0	158.7	19.64	5,316	66.8
65.00		0.3750	39.236	46.253	8,825.1	17.04	104.63	81.4	443.0	0.0	157.8	19.64	5,266	66.8
66.00		0.3750	39.017	45.992	8,676.5	16.94	104.04	81.5	438.0	0.0	156.9	19.64	5,215	66.8
67.00		0.3750	38.797	45.730	8,529.5	16.83	103.46	81.6	433.0	0.0	156.1	19.64	5,165	66.8
68.00		0.3750	38.578	45.469	8,384.2	16.73	102.87	81.7	428.1	0.0	155.2	19.64	5,115	66.8
69.00		0.3750	38.358	45.208	8,240.5	16.63	102.29	81.8	423.1	0.0	154.3	19.64	5,065	66.8
70.00		0.3750	38.139	44.947	8,098.5	16.52	101.70	82.0	418.2	0.0	153.4	19.64	5,015	66.8
71.00		0.3750	37.919	44.686	7,958.2	16.42	101.12	82.1	413.4	0.0	152.5	19.64	4,966	66.8
72.00		0.3750	37.700	44.424	7,819.4	16.32	100.53	82.2	408.5	0.0	151.6	19.64	4,917	66.8
73.00		0.3750	37.481	44.163	7,682.3	16.21	99.95	82.3	403.7	0.0	150.7	19.64	4,868	66.8
74.00		0.3750	37.261	43.902	7,546.8	16.11	99.36	82.5	398.9	0.0	149.8	19.64	4,820	66.8
75.00		0.3750	37.042	43.641	7,412.9	16.01	98.78	82.6	394.2	0.0	148.9	19.64	4,771	66.8
76.00		0.3750	36.822	43.380	7,280.6	15.90	98.19	82.6	389.4	0.0	148.1	19.64	4,723	66.8
77.00		0.3750	36.603	43.119	7,149.9	15.80	97.61	82.6	384.7	0.0	147.2	19.64	4,675	66.8
78.00		0.3750	36.383	42.857	7,020.8	15.70	97.02	82.6	380.1	0.0	146.3	19.64	4,628	66.8
79.00		0.3750	36.164	42.596	6,893.2	15.59	96.44	82.6	375.4	0.0	145.4	19.64	4,581	66.8
80.00		0.3750	35.944	42.335	6,767.2	15.49	95.85	82.6	370.8	0.0	144.5	19.64	4,533	66.8
81.00		0.3750	35.725	42.074	6,642.7	15.39	95.27	82.6	366.2	0.0	143.6	19.64	4,487	66.8
82.00		0.3750	35.506	41.813	6,519.7	15.28	94.68	82.6	361.7	0.0	142.7	19.64	4,440	66.8
83.00		0.3750	35.286	41.551	6,398.3	15.18	94.10	82.6	357.1	0.0	141.8	19.64	4,394	66.8
84.00		0.3750	35.067	41.290	6,278.4	15.08	93.51	82.6	352.6	0.0	140.9	19.64	4,348	66.8
85.00		0.3750	34.847	41.029	6,160.0	14.97	92.93	82.6	348.2	0.0	140.1	19.64	4,302	66.8
86.00		0.3750	34.628	40.768	6,043.1	14.87	92.34	82.6	343.7	0.0	139.2	19.64	4,256	66.8
87.00		0.3750	34.408	40.507	5,927.7	14.77	91.76	82.6	339.3	0.0	138.3	19.64	4,211	66.8
87.54	Bot - Section 3	0.3750	34.290	40.366	5,866.0	14.71	91.44	82.6	336.9	0.0	74.3	19.64	4,186	36.1
88.00		0.3750	34.189	40.246	5,813.8	14.67	91.17	82.6	334.9	0.0	116.8	19.64	4,295	30.7
89.00		0.3750	33.969	39.984	5,701.4	14.56	90.59	82.6	330.6	0.0	252.6	19.64	4,249	66.8
90.00		0.3750	33.750	39.723	5,590.4	14.46	90.00	82.6	326.2	0.0	250.9	19.64	4,204	66.8
91.00		0.3750	33.531	39.462	5,480.8	14.36	89.41	82.6	321.9	0.0	249.3	19.64	4,159	66.8
92.00		0.3750	33.311	39.201	5,372.7	14.25	88.83	82.6	317.7	0.0	247.7	19.64	4,114	66.8
92.46	Top - Section 2	0.3125	33.836	33.250	4,721.1	17.68	108.27	80.6	274.8	0.0	112.5	19.64	4,093	30.5
93.00		0.3125	33.717	33.132	4,670.9	17.61	107.89	80.7	272.9	0.0	61.4	19.64	4,069	36.3
94.00		0.3125	33.497	32.914	4,579.4	17.49	107.19	80.8	269.3	0.0	112.4	19.64	4,025	66.8
95.00		0.3125	33.278	32.696	4,489.2	17.37	106.49	81.0	265.7	0.0	111.6	19.64	3,981	66.8
96.00		0.3125	33.058	32.479	4,400.1	17.24	105.79	81.1	262.2	0.0	110.9	19.64	3,937	66.8
97.00		0.3125	32.839	32.261	4,312.2	17.12	105.08	81.3	258.6	0.0	110.1	19.64	3,893	66.8
98.00		0.3125	32.619	32.043	4,225.5	16.99	104.38	81.4	255.1	0.0	109.4	19.64	3,850	66.8
99.00		0.3125	32.400	31.826	4,140.0	16.87	103.68	81.6	251.7	0.0	108.7	19.64	3,806	66.8
100.0		0.3125	32.181	31.608	4,055.7	16.75	102.98	81.7	248.2	0.0	107.9	19.64	3,764	66.8
101.0		0.3125	31.961	31.390	3,972.4	16.62	102.28	81.8	244.8	0.0	107.2	19.64	3,721	66.8
102.0		0.3125	31.742	31.173	3,890.4	16.50	101.57	82.0	241.4	0.0	106.4	19.64	3,678	66.8
103.0		0.3125	31.522	30.955	3,809.5	16.38	100.87	82.1	238.0	0.0	105.7	19.64	3,636	66.8
104.0		0.3125	31.303	30.737	3,729.7	16.25	100.17	82.3	234.7	0.0	105.0	19.64	3,594	66.8
104.5	Reinf. Top	0.3125	31.193	30.629	3,690.2	16.19	99.82	82.4	233.0	0.0	52.2	19.64	3,573	33.4
105.0		0.3125	31.083	30.520	3,651.0	16.13	99.47	82.4	231.3	0.0	52.0			
106.0		0.3125	30.864	30.302	3,573.4	16.00	98.76	82.6	228.0	0.0	103.5			
107.0		0.3125	30.644	30.084	3,497.0	15.88	98.06	82.6	224.8	0.0	102.7			
108.0		0.3125	30.425	29.867	3,421.6	15.76	97.36	82.6	221.5	0.0	102.0			
109.0		0.3125	30.206	29.649	3,347.4	15.63	96.66	82.6	218.3	0.0	101.3			
110.0		0.3125	29.986	29.431	3,274.2	15.51	95.96	82.6	215.1	0.0	100.5			
111.0		0.3125	29.767	29.214	3,202.1	15.39	95.25	82.6	211.9	0.0	99.8			
112.0		0.3125	29.547	28.996	3,131.1	15.26	94.55	82.6	208.7	0.0	99.0			
113.0		0.3125	29.328	28.778	3,061.1	15.14	93.85	82.6	205.6	0.0	98.3			
114.0		0.3125	29.108	28.561	2,992.2	15.01	93.15	82.6	202.5	0.0	97.6			
115.0		0.3125	28.889	28.343	2,924.3	14.89	92.44	82.6	199.4	0.0	96.8			
116.0		0.3125	28.669	28.126	2,857.4	14.77	91.74	82.6	196.3	0.0	96.1			

117.0		0.3125	28.450	27.908	2,791.6	14.64	91.04	82.6	193.3	0.0	95.3
118.0		0.3125	28.231	27.690	2,726.8	14.52	90.34	82.6	190.2	0.0	94.6
119.0		0.3125	28.011	27.473	2,663.0	14.39	89.64	82.6	187.2	0.0	93.9
120.0		0.3125	27.792	27.255	2,600.2	14.27	88.93	82.6	184.3	0.0	93.1
121.0		0.3125	27.572	27.037	2,538.4	14.15	88.23	82.6	181.3	0.0	92.4
122.0		0.3125	27.353	26.820	2,477.6	14.02	87.53	82.6	178.4	0.0	91.6
123.0		0.3125	27.133	26.602	2,417.7	13.90	86.83	82.6	175.5	0.0	90.9
124.0		0.3125	26.914	26.384	2,358.9	13.78	86.12	82.6	172.6	0.0	90.2
125.0		0.3125	26.694	26.167	2,301.0	13.65	85.42	82.6	169.8	0.0	89.4
126.0		0.3125	26.475	25.949	2,244.0	13.53	84.72	82.6	166.9	0.0	88.7
127.0		0.3125	26.256	25.731	2,188.1	13.40	84.02	82.6	164.1	0.0	87.9
128.0		0.3125	26.036	25.514	2,133.0	13.28	83.32	82.6	161.4	0.0	87.2
129.0		0.3125	25.817	25.296	2,078.9	13.16	82.61	82.6	158.6	0.0	86.4
130.0		0.3125	25.597	25.078	2,025.7	13.03	81.91	82.6	155.9	0.0	85.7
131.0		0.3125	25.378	24.861	1,973.4	12.91	81.21	82.6	153.2	0.0	85.0
132.0		0.3125	25.158	24.643	1,922.0	12.78	80.51	82.6	150.5	0.0	84.2
132.1	Bot - Section 4	0.3125	25.132	24.617	1,915.9	12.77	80.42	82.6	150.2	0.0	10.0
133.0		0.3125	24.939	24.425	1,871.5	12.66	79.80	82.6	147.8	0.0	118.4
134.0		0.3125	24.719	24.208	1,821.9	12.54	79.10	82.6	145.2	0.0	133.4
135.0		0.3125	24.500	23.990	1,773.2	12.41	78.40	82.6	142.6	0.0	132.2
135.8	Top - Section 3	0.1875	24.684	14.578	1,105.3	21.80	131.65	75.8	88.2	0.0	114.0
136.0		0.1875	24.656	14.561	1,101.4	21.78	131.50	75.8	88.0	0.0	6.5
137.0		0.1875	24.436	14.430	1,072.0	21.57	130.33	76.0	86.4	0.0	49.3
138.0		0.1875	24.217	14.300	1,043.2	21.36	129.16	76.3	84.8	0.0	48.9
139.0		0.1875	23.997	14.169	1,014.9	21.16	127.99	76.5	83.3	0.0	48.4
140.0		0.1875	23.778	14.039	987.1	20.95	126.81	76.8	81.8	0.0	48.0
141.0		0.1875	23.558	13.908	959.8	20.74	125.64	77.0	80.2	0.0	47.5
142.0		0.1875	23.339	13.777	933.0	20.54	124.47	77.2	78.7	0.0	47.1
143.0		0.1875	23.119	13.647	906.7	20.33	123.30	77.5	77.2	0.0	46.7
144.0		0.1875	22.900	13.516	880.9	20.12	122.13	77.7	75.8	0.0	46.2
145.0		0.1875	22.681	13.386	855.6	19.92	120.96	78.0	74.3	0.0	45.8
146.0		0.1875	22.461	13.255	830.8	19.71	119.79	78.2	72.9	0.0	45.3
147.0		0.1875	22.242	13.125	806.5	19.51	118.62	78.5	71.4	0.0	44.9
148.0		0.1875	22.022	12.994	782.7	19.30	117.45	78.7	70.0	0.0	44.4
149.0		0.1875	21.803	12.863	759.3	19.09	116.28	78.9	68.6	0.0	44.0
150.0		0.1875	21.583	12.733	736.4	18.89	115.11	79.2	67.2	0.0	43.5
151.0		0.1875	21.364	12.602	714.0	18.68	113.94	79.4	65.8	0.0	43.1
152.0		0.1875	21.144	12.472	692.0	18.47	112.77	79.7	64.5	0.0	42.7
153.0		0.1875	20.925	12.341	670.5	18.27	111.60	79.9	63.1	0.0	42.2
154.0		0.1875	20.706	12.210	649.5	18.06	110.43	80.2	61.8	0.0	41.8
155.0		0.1875	20.486	12.080	628.8	17.85	109.26	80.4	60.5	0.0	41.3
156.0		0.1875	20.267	11.949	608.7	17.65	108.09	80.6	59.2	0.0	40.9
157.0		0.1875	20.047	11.819	588.9	17.44	106.92	80.9	57.9	0.0	40.4
158.0		0.1875	19.828	11.688	569.6	17.24	105.75	81.1	56.6	0.0	40.0
159.0		0.1875	19.608	11.557	550.7	17.03	104.58	81.4	55.3	0.0	39.5
160.0		0.1875	19.389	11.427	532.3	16.82	103.41	81.6	54.1	0.0	39.1
161.0		0.1875	19.169	11.296	514.2	16.62	102.24	81.9	52.8	0.0	38.7
162.0		0.1875	18.950	11.166	496.6	16.41	101.07	82.1	51.6	0.0	38.2
163.0		0.1875	18.731	11.035	479.4	16.20	99.90	82.3	50.4	0.0	37.8
164.0		0.1875	18.511	10.904	462.6	16.00	98.73	82.6	49.2	0.0	37.3
165.0		0.1875	18.292	10.774	446.2	15.79	97.56	82.6	48.0	0.0	36.9
166.0		0.1875	18.072	10.643	430.1	15.58	96.39	82.6	46.9	0.0	36.4
167.0		0.1875	17.853	10.513	414.5	15.38	95.21	82.6	45.7	0.0	36.0
168.0		0.1875	17.633	10.382	399.2	15.17	94.04	82.6	44.6	0.0	35.6
169.0		0.1875	17.414	10.251	384.4	14.97	92.87	82.6	43.5	0.0	35.1
170.0		0.1875	17.194	10.121	369.8	14.76	91.70	82.6	42.4	0.0	34.7
171.0		0.1875	16.975	9.990	355.7	14.55	90.53	82.6	41.3	0.0	34.2
172.0		0.1875	16.756	9.860	341.9	14.35	89.36	82.6	40.2	0.0	33.8
173.0		0.1875	16.536	9.729	328.5	14.14	88.19	82.6	39.1	0.0	33.3
174.0		0.1875	16.317	9.599	315.5	13.93	87.02	82.6	38.1	0.0	32.9
175.0		0.1875	16.097	9.468	302.8	13.73	85.85	82.6	37.0	0.0	32.4
176.0		0.1875	15.878	9.337	290.4	13.52	84.68	82.6	36.0	0.0	32.0
177.0		0.1875	15.658	9.207	278.4	13.31	83.51	82.6	35.0	0.0	31.6
178.0		0.1875	15.439	9.076	266.7	13.11	82.34	82.6	34.0	0.0	31.1

179.0	0.1875	15.219	8.946	255.4	12.90	81.17	82.6	33.1	0.0	30.7	
180.0	0.1875	15.000	8.815	244.4	12.70	80.00	82.6	32.1	0.0	30.2	
										25,271.1	6,980.6

Load Case: 1.2D + 1.6W 93 mph with No Ice 35 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 1.20
Wind Load Factor : 1.60
Wind Importance Factor : 1.15

Shaft Segment Forces (Factored)

Seg Top Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf		Ice Thick (in)	Tributary (ft)	Ap (sf)	EPAs (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.70	16.933	18.62	372.45	0.650		0.000	0.00	0.000	0.00	51.1	0.0	0.0
1.00		1.00	0.70	16.933	18.62	371.67	0.771	*	0.000	1.00	4.454	3.43	102.2	0.0	296.0
2.00		1.00	0.70	16.933	18.62	370.12	0.772	*	0.000	1.00	4.436	3.42	101.9	0.0	294.7
3.00		1.00	0.70	16.933	18.62	368.57	0.773	*	0.000	1.00	4.417	3.42	101.7	0.0	293.5
4.00		1.00	0.70	16.933	18.62	367.02	0.775	*	0.000	1.00	4.399	3.41	101.4	0.0	292.3
5.00		1.00	0.70	16.933	18.62	365.48	0.776	*	0.000	1.00	4.380	3.40	101.2	0.0	291.0
6.00		1.00	0.70	16.933	18.62	363.93	0.777	*	0.000	1.00	4.362	3.39	100.9	0.0	289.8
7.00		1.00	0.70	16.933	18.62	362.38	0.779	*	0.000	1.00	4.343	3.38	100.7	0.0	288.5
8.00		1.00	0.70	16.933	18.62	360.83	0.780	*	0.000	1.00	4.324	3.37	100.4	0.0	287.3
9.00		1.00	0.70	16.933	18.62	359.28	0.781	*	0.000	1.00	4.306	3.36	100.1	0.0	286.0
10.00		1.00	0.70	16.933	18.62	357.73	0.783	*	0.000	1.00	4.287	3.36	99.9	0.0	284.8
11.00		1.00	0.70	16.933	18.62	356.18	0.784	*	0.000	1.00	4.269	3.35	99.6	0.0	283.5
12.00		1.00	0.70	16.933	18.62	354.63	0.786	*	0.000	1.00	4.250	3.34	99.4	0.0	282.3
13.00		1.00	0.70	16.933	18.62	353.08	0.787	*	0.000	1.00	4.232	3.33	99.1	0.0	281.1
14.00		1.00	0.70	16.933	18.62	351.53	0.789	*	0.000	1.00	4.213	3.32	98.9	0.0	279.8
15.00		1.00	0.70	16.933	18.62	349.98	0.790	*	0.000	1.00	4.194	3.31	98.6	0.0	278.6
16.00		1.00	0.70	16.933	18.62	348.43	0.792	*	0.000	1.00	4.176	3.31	98.4	0.0	277.3
17.00		1.00	0.70	16.933	18.62	346.88	0.793	*	0.000	1.00	4.157	3.30	98.1	0.0	276.1
18.00		1.00	0.70	16.933	18.62	345.33	0.795	*	0.000	1.00	4.139	3.29	97.9	0.0	274.8
19.00		1.00	0.70	16.933	18.62	343.78	0.796	*	0.000	1.00	4.120	3.28	97.6	0.0	273.6
20.00		1.00	0.70	16.933	18.62	342.23	0.798	*	0.000	1.00	4.102	3.27	97.4	0.0	272.3
21.00		1.00	0.70	16.933	18.62	340.68	0.799	*	0.000	1.00	4.083	3.26	97.1	0.0	271.1
22.00		1.00	0.70	16.933	18.62	339.13	0.801	*	0.000	1.00	4.064	3.25	96.9	0.0	269.9
23.00		1.00	0.70	16.933	18.62	337.59	0.802	*	0.000	1.00	4.046	3.25	96.6	0.0	268.6
24.00		1.00	0.70	16.933	18.62	336.04	0.804	*	0.000	1.00	4.027	3.24	96.4	0.0	267.4
25.00		1.00	0.70	16.933	18.62	334.49	0.806	*	0.000	1.00	4.009	3.23	96.1	0.0	266.1
26.00		1.00	0.70	16.933	18.62	332.94	0.807	*	0.000	1.00	3.990	3.22	95.9	0.0	264.9
27.00		1.00	0.70	16.933	18.62	331.39	0.809	*	0.000	1.00	3.972	3.21	95.6	0.0	263.6
28.00		1.00	0.70	16.933	18.62	329.84	0.811	*	0.000	1.00	3.953	3.20	95.4	0.0	262.4
29.00		1.00	0.70	16.933	18.62	328.29	0.812	*	0.000	1.00	3.934	3.20	95.1	0.0	261.2
30.00	Appertunance(s)	1.00	0.70	16.933	18.62	326.74	0.814	*	0.000	1.00	3.916	3.19	95.1	0.0	259.9
31.00		1.00	0.70	17.027	18.73	326.10	0.816	*	0.000	1.00	3.897	3.18	95.6	0.0	258.7
32.00		1.00	0.71	17.185	18.90	326.04	0.817	*	0.000	1.00	3.879	3.17	96.2	0.0	257.4
33.00		1.00	0.71	17.339	19.07	325.93	0.819	*	0.000	1.00	3.860	3.16	96.8	0.0	256.2
34.00		1.00	0.72	17.490	19.23	325.77	0.821	*	0.000	1.00	3.842	3.15	97.4	0.0	254.9
35.00		1.00	0.72	17.637	19.40	325.56	0.823	*	0.000	1.00	3.823	3.15	97.9	0.0	253.7
36.00		1.00	0.73	17.782	19.56	325.31	0.824	*	0.000	1.00	3.804	3.14	98.4	0.0	252.4
37.00		1.00	0.74	17.924	19.71	325.01	0.826	*	0.000	1.00	3.786	3.13	98.9	0.0	251.2
38.00		1.00	0.74	18.063	19.86	324.66	0.828	*	0.000	1.00	3.767	3.12	99.4	0.0	250.0
39.00		1.00	0.75	18.199	20.01	324.28	0.830	*	0.000	1.00	3.749	3.11	99.9	0.0	248.7
40.00		1.00	0.75	18.333	20.16	323.86	0.832	*	0.000	1.00	3.730	3.10	100.3	0.0	247.5
41.00		1.00	0.76	18.464	20.31	323.40	0.834	*	0.000	1.00	3.712	3.09	100.8	0.0	246.2
42.00		1.00	0.76	18.593	20.45	322.90	0.836	*	0.000	1.00	3.693	3.09	99.0	0.0	245.0
42.96	Bot - Section 2	1.00	0.77	18.718	20.58	322.39	0.837	*	0.000	0.96	3.515	2.94	50.7	0.0	233.2
43.00		1.00	0.77	18.780	20.65	322.11	0.838	*	0.000	0.04	0.162	0.14	54.0	0.0	19.8
44.00		1.00	0.77	18.845	20.73	321.81	0.839	*	0.000	1.00	3.719	3.12	103.8	0.0	454.3
45.00		1.00	0.78	18.968	20.86	321.22	0.841	*	0.000	1.00	3.701	3.11	104.1	0.0	452.0
46.00		1.00	0.78	19.089	20.99	320.60	0.843	*	0.000	1.00	3.682	3.11	126.5	0.0	449.7
47.00		1.00	0.79	19.208	21.12	319.94	1.200	*	0.000	1.00	3.664	4.40	148.7	0.0	447.4
48.00		1.00	0.79	19.325	21.25	319.26	1.200	*	0.000	1.00	3.645	4.37	148.8	0.0	445.0
49.00		1.00	0.80	19.440	21.38	318.55	1.200	*	0.000	1.00	3.627	4.35	77.4	0.0	442.7

Load Case: 1.2D + 1.6W 93 mph with No Ice 35 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 1.20
Wind Load Factor : 1.60

Wind Importance Factor : 1.15

49.04	Top - Section 1	1.00	0.80	19.499	21.44	318.17	1.200	* 0.000	0.04	0.144	0.17	53.3	0.0	17.6
50.00		1.00	0.80	19.556	21.51	323.49	0.845	* 0.000	0.96	3.464	2.93	124.9	0.0	197.2
51.00		1.00	0.81	19.666	21.63	322.76	1.200	* 0.000	1.00	3.589	4.31	149.1	0.0	204.3
52.00		1.00	0.81	19.776	21.75	322.00	1.200	* 0.000	1.00	3.571	4.28	149.2	0.0	203.3
53.00		1.00	0.82	19.885	21.87	321.20	1.200	* 0.000	1.00	3.552	4.26	149.2	0.0	202.2
54.00		1.00	0.82	19.993	21.99	320.39	1.200	* 0.000	1.00	3.534	4.24	149.2	0.0	201.1
55.00		1.00	0.83	20.099	22.10	319.55	1.200	* 0.000	1.00	3.515	4.22	149.2	0.0	200.1
56.00		1.00	0.83	20.204	22.22	318.69	1.200	* 0.000	1.00	3.497	4.20	149.2	0.0	199.0
57.00		1.00	0.83	20.307	22.33	317.80	1.200	* 0.000	1.00	3.478	4.17	149.1	0.0	197.9
58.00		1.00	0.84	20.409	22.45	316.90	1.200	* 0.000	1.00	3.459	4.15	149.1	0.0	196.9
59.00		1.00	0.84	20.510	22.56	315.98	1.200	* 0.000	1.00	3.441	4.13	149.0	0.0	195.8
60.00		1.00	0.85	20.609	22.67	315.03	1.200	* 0.000	1.00	3.422	4.11	148.9	0.0	194.7
61.00		1.00	0.85	20.708	22.77	314.07	1.200	* 0.000	1.00	3.404	4.08	148.8	0.0	193.7
62.00		1.00	0.86	20.805	22.88	313.09	1.200	* 0.000	1.00	3.385	4.06	148.7	0.0	192.6
63.00		1.00	0.86	20.901	22.99	312.09	1.200	* 0.000	1.00	3.367	4.04	148.5	0.0	191.5
64.00		1.00	0.86	20.996	23.09	311.07	1.200	* 0.000	1.00	3.348	4.02	148.4	0.0	190.5
65.00		1.00	0.87	21.090	23.19	310.04	1.200	* 0.000	1.00	3.329	4.00	148.2	0.0	189.4
66.00		1.00	0.87	21.183	23.30	308.99	1.200	* 0.000	1.00	3.311	3.97	148.0	0.0	188.3
67.00		1.00	0.88	21.275	23.40	307.92	1.200	* 0.000	1.00	3.292	3.95	147.8	0.0	187.3
68.00		1.00	0.88	21.366	23.50	306.84	1.200	* 0.000	1.00	3.274	3.93	147.6	0.0	186.2
69.00		1.00	0.88	21.456	23.60	305.74	1.200	* 0.000	1.00	3.255	3.91	147.4	0.0	185.1
70.00		1.00	0.89	21.545	23.69	304.62	1.200	* 0.000	1.00	3.237	3.88	147.1	0.0	184.1
71.00		1.00	0.89	21.633	23.79	303.50	1.200	* 0.000	1.00	3.218	3.86	146.9	0.0	183.0
72.00		1.00	0.89	21.720	23.89	302.35	1.200	* 0.000	1.00	3.199	3.84	146.6	0.0	181.9
73.00		1.00	0.90	21.806	23.98	301.19	1.200	* 0.000	1.00	3.181	3.82	146.4	0.0	180.9
74.00		1.00	0.90	21.892	24.08	300.02	1.200	* 0.000	1.00	3.162	3.79	146.1	0.0	179.8
75.00		1.00	0.90	21.977	24.17	298.84	1.200	* 0.000	1.00	3.144	3.77	145.8	0.0	178.7
76.00		1.00	0.91	22.060	24.26	297.64	1.200	* 0.000	1.00	3.125	3.75	145.4	0.0	177.7
77.00		1.00	0.91	22.143	24.35	296.43	1.200	* 0.000	1.00	3.107	3.73	145.1	0.0	176.6
78.00		1.00	0.91	22.226	24.44	295.20	1.200	* 0.000	1.00	3.088	3.71	144.8	0.0	175.5
79.00	Appertunance(s)	1.00	0.92	22.307	24.53	293.96	1.200	* 0.000	1.00	3.069	3.68	144.4	0.0	174.5
80.00	Appertunance(s)	1.00	0.92	22.388	24.62	292.71	1.200	* 0.000	1.00	3.051	3.66	144.1	0.0	173.4
81.00		1.00	0.92	22.468	24.71	291.45	1.200	* 0.000	1.00	3.032	3.64	143.7	0.0	172.3
82.00		1.00	0.93	22.548	24.80	290.18	1.200	* 0.000	1.00	3.014	3.62	143.3	0.0	171.3
83.00		1.00	0.93	22.626	24.88	288.89	1.200	* 0.000	1.00	2.995	3.59	142.9	0.0	170.2
84.00		1.00	0.93	22.704	24.97	287.60	1.200	* 0.000	1.00	2.977	3.57	142.5	0.0	169.1
85.00		1.00	0.94	22.782	25.06	286.29	1.200	* 0.000	1.00	2.958	3.55	142.1	0.0	168.1
86.00		1.00	0.94	22.858	25.14	284.97	1.200	* 0.000	1.00	2.939	3.53	141.7	0.0	167.0
87.00		1.00	0.94	22.935	25.22	283.64	1.200	* 0.000	1.00	2.921	3.51	108.8	0.0	165.9
87.54	Bot - Section 3	1.00	0.95	22.993	25.29	282.61	1.200	* 0.000	0.54	1.569	1.88	71.1	0.0	89.1
88.00		1.00	0.95	23.030	25.33	281.94	1.200	* 0.000	0.46	1.357	1.63	104.6	0.0	140.1
89.00		1.00	0.95	23.085	25.39	280.95	1.200	* 0.000	1.00	2.937	3.52	143.0	0.0	303.1
90.00		1.00	0.95	23.159	25.47	279.59	1.200	* 0.000	1.00	2.918	3.50	142.5	0.0	301.1
91.00		1.00	0.96	23.233	25.55	278.22	1.200	* 0.000	1.00	2.899	3.48	142.0	0.0	299.2
92.00		1.00	0.96	23.306	25.63	276.84	1.200	* 0.000	1.00	2.881	3.46	103.2	0.0	297.2
92.46	Top - Section 2	1.00	0.96	23.359	25.69	275.83	1.200	* 0.000	0.46	1.309	1.57	70.7	0.0	135.1
93.00		1.00	0.96	23.395	25.73	280.32	1.200	* 0.000	0.54	1.553	1.86	108.8	0.0	73.7
94.00		1.00	0.96	23.450	25.79	279.24	1.200	* 0.000	1.00	2.844	3.41	140.6	0.0	134.8
95.00		1.00	0.97	23.522	25.87	277.84	1.200	* 0.000	1.00	2.825	3.39	140.1	0.0	134.0
96.00	Appertunance(s)	1.00	0.97	23.592	25.95	276.43	1.200	* 0.000	1.00	2.807	3.37	139.6	0.0	133.1
97.00		1.00	0.97	23.663	26.02	275.01	1.200	* 0.000	1.00	2.788	3.35	139.1	0.0	132.2
98.00		1.00	0.98	23.733	26.10	273.58	1.200	* 0.000	1.00	2.770	3.32	138.6	0.0	131.3
99.00		1.00	0.98	23.802	26.18	272.14	1.200	* 0.000	1.00	2.751	3.30	138.0	0.0	130.4
100.0		1.00	0.98	23.871	26.25	270.70	1.200	* 0.000	1.00	2.732	3.28	137.5	0.0	129.5
101.0		1.00	0.99	23.939	26.33	269.24	1.200	* 0.000	1.00	2.714	3.26	136.9	0.0	128.6
102.0		1.00	0.99	24.007	26.40	267.78	1.200	* 0.000	1.00	2.695	3.23	136.4	0.0	127.7
103.0		1.00	0.99	24.074	26.48	266.30	1.200	* 0.000	1.00	2.677	3.21	135.8	0.0	126.8

Load Case: 1.2D + 1.6W 93 mph with No Ice 35 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 1.20
Wind Load Factor : 1.60

Wind Importance Factor : 1.15

104.0		1.00	0.99	24.141	26.55	264.82	1.200	* 0.000	1.00	2.658	3.19	101.5	0.0	126.0
104.5	Reinf. Top	1.00	1.00	24.191	26.61	263.71	1.200	* 0.000	0.50	1.322	1.59	67.5	0.0	62.6
105.0		1.00	1.00	24.224	26.64	262.96	1.200	* 0.000	0.50	1.317	1.58	100.9	0.0	62.4
106.0		1.00	1.00	24.273	26.70	261.84	1.200	* 0.000	1.00	2.621	3.15	134.1	0.0	124.2
107.0		1.00	1.00	24.339	26.77	260.33	1.200	* 0.000	1.00	2.602	3.12	133.5	0.0	123.3
108.0		1.00	1.00	24.404	26.84	258.82	1.200	* 0.000	1.00	2.584	3.10	132.9	0.0	122.4
109.0		1.00	1.01	24.469	26.91	257.30	1.200	* 0.000	1.00	2.565	3.08	132.3	0.0	121.5
110.0		1.00	1.01	24.533	26.98	255.77	1.200	* 0.000	1.00	2.547	3.06	131.6	0.0	120.6
111.0	Appertunance(s)	1.00	1.01	24.597	27.05	254.24	1.200	* 0.000	1.00	2.528	3.03	131.0	0.0	119.7
112.0		1.00	1.01	24.660	27.12	252.70	1.200	* 0.000	1.00	2.510	3.01	130.4	0.0	118.8
113.0	Appertunance(s)	1.00	1.02	24.723	27.19	251.15	1.200	* 0.000	1.00	2.491	2.99	129.7	0.0	118.0
114.0		1.00	1.02	24.786	27.26	249.59	1.200	* 0.000	1.00	2.472	2.97	129.1	0.0	117.1
115.0		1.00	1.02	24.848	27.33	248.03	1.200	* 0.000	1.00	2.454	2.94	128.4	0.0	116.2
116.0		1.00	1.03	24.910	27.40	246.46	1.200	* 0.000	1.00	2.435	2.92	127.8	0.0	115.3
117.0		1.00	1.03	24.971	27.46	244.88	1.200	* 0.000	1.00	2.417	2.90	127.1	0.0	114.4
118.0		1.00	1.03	25.032	27.53	243.29	1.200	* 0.000	1.00	2.398	2.88	126.4	0.0	113.5
119.0		1.00	1.03	25.093	27.60	241.70	1.200	* 0.000	1.00	2.380	2.86	125.8	0.0	112.6
120.0		1.00	1.04	25.153	27.66	240.10	1.200	* 0.000	1.00	2.361	2.83	125.1	0.0	111.7
121.0		1.00	1.04	25.213	27.73	238.50	1.200	* 0.000	1.00	2.342	2.81	124.4	0.0	110.8
122.0	Appertunance(s)	1.00	1.04	25.273	27.80	236.89	1.200	* 0.000	1.00	2.324	2.79	99.7	0.0	110.0
123.0		1.00	1.04	25.332	27.86	235.27	0.734	* 0.000	1.00	2.305	1.69	75.4	0.0	109.1
124.0		1.00	1.05	25.391	27.93	233.65	0.736	* 0.000	1.00	2.287	1.68	75.1	0.0	108.2
125.0		1.00	1.05	25.449	27.99	232.02	0.739	* 0.000	1.00	2.268	1.68	74.9	0.0	107.3
126.0		1.00	1.05	25.508	28.05	230.38	0.741	* 0.000	1.00	2.250	1.67	74.7	0.0	106.4
127.0		1.00	1.05	25.566	28.12	228.74	0.743	* 0.000	1.00	2.231	1.66	74.5	0.0	105.5
128.0		1.00	1.05	25.623	28.18	227.09	0.746	* 0.000	1.00	2.212	1.65	74.3	0.0	104.6
129.0		1.00	1.06	25.680	28.24	225.43	0.748	* 0.000	1.00	2.194	1.64	74.1	0.0	103.7
130.0		1.00	1.06	25.737	28.31	223.77	0.751	* 0.000	1.00	2.175	1.63	73.9	0.0	102.8
131.0		1.00	1.06	25.794	28.37	222.11	0.753	* 0.000	1.00	2.157	1.62	73.7	0.0	102.0
132.0		1.00	1.06	25.850	28.43	220.44	0.756	* 0.000	1.00	2.138	1.62	41.2	0.0	101.1
132.1	Bot - Section 4	1.00	1.07	25.882	28.47	219.50	0.757	* 0.000	0.12	0.255	0.19	37.1	0.0	12.0
133.0		1.00	1.07	25.910	28.50	218.66	0.759	* 0.000	0.88	1.893	1.44	69.8	0.0	142.1
134.0		1.00	1.07	25.962	28.55	217.07	0.761	* 0.000	1.00	2.133	1.62	74.1	0.0	160.1
135.0		1.00	1.07	26.017	28.61	215.38	0.764	* 0.000	1.00	2.114	1.62	69.1	0.0	158.7
135.8	Top - Section 3	1.00	1.07	26.069	28.67	213.80	0.767	* 0.000	0.87	1.824	1.40	36.8	0.0	136.8
136.0		1.00	1.07	26.096	28.70	216.24	0.763	* 0.000	0.13	0.272	0.21	41.3	0.0	7.7
137.0	Appertunance(s)	1.00	1.08	26.127	28.74	215.28	0.765	* 0.000	1.00	2.077	1.59	72.9	0.0	59.2
138.0		1.00	1.08	26.182	28.80	213.58	0.768	* 0.000	1.00	2.058	1.58	72.7	0.0	58.7
139.0		1.00	1.08	26.236	28.86	211.87	0.770	* 0.000	1.00	2.040	1.57	72.5	0.0	58.1
140.0	Appertunance(s)	1.00	1.08	26.290	28.91	210.16	0.773	* 0.000	1.00	2.021	1.56	72.2	0.0	57.6
141.0		1.00	1.08	26.344	28.97	208.44	0.776	* 0.000	1.00	2.003	1.55	72.0	0.0	57.1
142.0		1.00	1.09	26.397	29.03	206.72	0.779	* 0.000	1.00	1.984	1.55	71.7	0.0	56.5
143.0		1.00	1.09	26.450	29.09	204.99	0.782	* 0.000	1.00	1.966	1.54	71.5	0.0	56.0
144.0		1.00	1.09	26.503	29.15	203.25	0.785	* 0.000	1.00	1.947	1.53	71.2	0.0	55.5
145.0		1.00	1.09	26.556	29.21	201.51	0.789	* 0.000	1.00	1.928	1.52	71.0	0.0	54.9
146.0	Appertunance(s)	1.00	1.10	26.608	29.26	199.77	0.792	* 0.000	1.00	1.910	1.51	70.7	0.0	54.4
147.0		1.00	1.10	26.660	29.32	198.02	0.795	* 0.000	1.00	1.891	1.50	70.4	0.0	53.9
148.0		1.00	1.10	26.712	29.38	196.27	0.799	* 0.000	1.00	1.873	1.50	70.2	0.0	53.3
149.0		1.00	1.10	26.764	29.44	194.51	0.802	* 0.000	1.00	1.854	1.49	69.9	0.0	52.8
150.0		1.00	1.10	26.815	29.49	192.75	0.806	* 0.000	1.00	1.836	1.48	69.7	0.0	52.3
151.0		1.00	1.11	26.866	29.55	190.98	0.809	* 0.000	1.00	1.817	1.47	69.4	0.0	51.7
152.0	Appertunance(s)	1.00	1.11	26.917	29.60	189.21	0.813	* 0.000	1.00	1.799	1.46	69.1	0.0	51.2
153.0		1.00	1.11	26.968	29.66	187.43	0.817	* 0.000	1.00	1.780	1.45	68.8	0.0	50.7
154.0		1.00	1.11	27.018	29.72	185.65	0.820	* 0.000	1.00	1.761	1.44	68.6	0.0	50.1
155.0		1.00	1.11	27.069	29.77	183.86	0.824	* 0.000	1.00	1.743	1.44	68.3	0.0	49.6
156.0		1.00	1.12	27.119	29.83	182.07	0.828	* 0.000	1.00	1.724	1.43	68.0	0.0	49.1
157.0		1.00	1.12	27.168	29.88	180.27	0.832	* 0.000	1.00	1.706	1.42	67.7	0.0	48.5

Site Number:	302506	Code: ANSI/TIA-222-G		
Site Name:	Winchester CT 3, CT	Engineering Number: OAA692405_C3_01		1/5/2017 2:51:54 PM
Customer:	AT&T Mobility			

Load Case: 1.2D + 1.6W — 93 mph with No Ice — 35 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 1.20
Wind Load Factor : 1.60

Wind Importance Factor : 1.15

158.0		1.00	1.12	27.218	29.93	178.47	0.836	* 0.000	1.00	1.687	1.41	67.5	0.0	48.0
159.0		1.00	1.12	27.267	29.99	176.67	0.841	* 0.000	1.00	1.669	1.40	67.2	0.0	47.5
160.0		1.00	1.12	27.316	30.04	174.86	0.845	* 0.000	1.00	1.650	1.39	80.7	0.0	46.9
161.0		1.00	1.13	27.365	30.10	173.04	1.200	* 0.000	1.00	1.631	1.96	93.8	0.0	46.4
162.0		1.00	1.13	27.413	30.15	171.23	1.200	* 0.000	1.00	1.613	1.94	92.9	0.0	45.9
163.0	Appertunance(s)	1.00	1.13	27.462	30.20	169.40	1.200	* 0.000	1.00	1.594	1.91	71.0	0.0	45.3
164.0		1.00	1.13	27.510	30.26	167.58	0.650	0.000	1.00	1.576	1.02	49.3	0.0	44.8
165.0		1.00	1.13	27.558	30.31	165.75	0.650	0.000	1.00	1.557	1.01	48.8	0.0	44.3
166.0		1.00	1.14	27.606	30.36	163.91	0.650	0.000	1.00	1.539	1.00	48.3	0.0	43.7
167.0		1.00	1.14	27.653	30.41	162.07	0.650	0.000	1.00	1.520	0.99	47.8	0.0	43.2
168.0		1.00	1.14	27.701	30.47	160.23	0.650	0.000	1.00	1.501	0.98	47.3	0.0	42.7
169.0		1.00	1.14	27.748	30.52	158.38	0.650	0.000	1.00	1.483	0.96	46.8	0.0	42.1
170.0		1.00	1.14	27.795	30.57	156.53	0.650	0.000	1.00	1.464	0.95	46.3	0.0	41.6
171.0		1.00	1.15	27.842	30.62	154.68	0.650	0.000	1.00	1.446	0.94	45.8	0.0	41.1
172.0		1.00	1.15	27.888	30.67	152.82	0.650	0.000	1.00	1.427	0.93	45.3	0.0	40.5
173.0		1.00	1.15	27.934	30.72	150.96	0.650	0.000	1.00	1.409	0.92	44.8	0.0	40.0
174.0	Appertunance(s)	1.00	1.15	27.981	30.77	149.09	0.650	0.000	1.00	1.390	0.90	44.2	0.0	39.5
175.0		1.00	1.15	28.027	30.82	147.22	0.650	0.000	1.00	1.371	0.89	43.7	0.0	38.9
176.0		1.00	1.16	28.072	30.88	145.34	0.650	0.000	1.00	1.353	0.88	43.2	0.0	38.4
177.0		1.00	1.16	28.118	30.93	143.46	0.650	0.000	1.00	1.334	0.87	42.7	0.0	37.9
178.0		1.00	1.16	28.163	30.98	141.58	0.650	0.000	1.00	1.316	0.86	42.1	0.0	37.3
179.0		1.00	1.16	28.209	31.03	139.70	0.650	0.000	1.00	1.297	0.84	41.6	0.0	36.8
180.0	Appertunance(s)	1.00	1.16	28.254	31.07	137.81	0.650	0.000	1.00	1.279	0.83	20.7	0.0	36.3
* = Cf Adjusted By Linear Load Ra Effect						Totals:			180.00			19,020.0	0.0	30,325.3

Site Number: 302506 Code: ANSI/TIA-222-G

Site Name: Winchester CT 3, CT Engineering Number: OAA692405_C3_01 1/5/2017 2:52:11 PM

Customer: AT&T Mobility

Load Case: 1.2D + 1.6W 93 mph with No Ice 35 Iterations

Gust Response Factor : 1.10 Wind Importance Factor : 1.15

Dead Load Factor : 1.20

Wind Load Factor : 1.60

Applied Segment Forces Summary

		Shaft Forces		Discrete Forces				Linear Forces		Sum of Forces			
Seg Elev (ft)	Description	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		51.1	0.0					0.0	0.0	51.1	0.0	0.0	0.0
1.00		102.2	296.0					0.0	209.8	102.2	505.8	0.0	0.0
2.00		101.9	294.7					0.0	209.8	101.9	504.5	0.0	0.0
3.00		101.7	293.5					0.0	209.8	101.7	503.3	0.0	0.0
4.00		101.4	292.3					0.0	209.8	101.4	502.0	0.0	0.0
5.00		101.2	291.0					0.0	209.8	101.2	500.8	0.0	0.0
6.00		100.9	289.8					0.0	209.8	100.9	499.6	0.0	0.0
7.00		100.7	288.5					0.0	209.8	100.7	498.3	0.0	0.0
8.00		100.4	287.3					0.0	209.8	100.4	497.1	0.0	0.0
9.00		100.1	286.0					0.0	209.8	100.1	495.8	0.0	0.0
10.00		99.9	284.8					0.0	209.8	99.9	494.6	0.0	0.0
11.00		99.6	283.5					0.0	209.8	99.6	493.3	0.0	0.0
12.00		99.4	282.3					0.0	209.8	99.4	492.1	0.0	0.0
13.00		99.1	281.1					0.0	209.8	99.1	490.8	0.0	0.0
14.00		98.9	279.8					0.0	209.8	98.9	489.6	0.0	0.0
15.00		98.6	278.6					0.0	209.8	98.6	488.4	0.0	0.0
16.00		98.4	277.3					0.0	209.8	98.4	487.1	0.0	0.0
17.00		98.1	276.1					0.0	209.8	98.1	485.9	0.0	0.0
18.00		97.9	274.8					0.0	209.8	97.9	484.6	0.0	0.0
19.00		97.6	273.6					0.0	209.8	97.6	483.4	0.0	0.0
20.00		97.4	272.3					0.0	209.8	97.4	482.1	0.0	0.0
21.00		97.1	271.1					0.0	209.8	97.1	480.9	0.0	0.0
22.00		96.9	269.9					0.0	209.8	96.9	479.6	0.0	0.0
23.00		96.6	268.6					0.0	209.8	96.6	478.4	0.0	0.0
24.00		96.4	267.4					0.0	209.8	96.4	477.2	0.0	0.0
25.00		96.1	266.1					0.0	209.8	96.1	475.9	0.0	0.0
26.00		95.9	264.9					0.0	209.8	95.9	474.7	0.0	0.0
27.00		95.6	263.6					0.0	209.8	95.6	473.4	0.0	0.0
28.00		95.4	262.4					0.0	209.8	95.4	472.2	0.0	0.0
29.00		95.1	261.2					0.0	209.8	95.1	470.9	0.0	0.0
30.00	Appertunance(s)	95.1	259.9	29.8	0.0	0.0	12.0	0.0	209.8	125.0	481.7	0.0	0.0
31.00		95.6	258.7					0.0	209.4	95.6	468.1	0.0	0.0
32.00		96.2	257.4					0.0	209.4	96.2	466.8	0.0	0.0
33.00		96.8	256.2					0.0	209.4	96.8	465.6	0.0	0.0
34.00		97.4	254.9					0.0	209.4	97.4	464.3	0.0	0.0
35.00		97.9	253.7					0.0	209.4	97.9	463.1	0.0	0.0
36.00		98.4	252.4					0.0	209.4	98.4	461.8	0.0	0.0
37.00		98.9	251.2					0.0	209.4	98.9	460.6	0.0	0.0
38.00		99.4	250.0					0.0	209.4	99.4	459.3	0.0	0.0
39.00		99.9	248.7					0.0	209.4	99.9	458.1	0.0	0.0
40.00		100.3	247.5					0.0	209.4	100.3	456.9	0.0	0.0
41.00		100.8	246.2					0.0	209.4	100.8	455.6	0.0	0.0
42.00		99.0	245.0					0.0	209.4	99.0	454.4	0.0	0.0
42.96	Bot - Section 2	50.7	233.2					0.0	200.3	50.7	433.5	0.0	0.0
43.00		54.0	19.8					0.0	9.1	54.0	28.9	0.0	0.0
44.00		103.8	454.3					0.0	209.4	103.8	663.7	0.0	0.0
45.00		104.1	452.0					0.0	209.4	104.1	661.4	0.0	0.0
46.00		126.5	449.7					0.0	209.4	126.5	659.1	0.0	0.0
47.00		148.7	447.4					28.1	209.4	176.8	656.7	0.0	0.0

Site Number:	302506	Code:	ANSI/TIA-222-G			
Site Name:	Winchester CT 3, CT	Engineering Number:	OAA692405_C3_01	1/5/2017 2:52:11 PM		
Customer:	AT&T Mobility					

Load Case: 1.2D + 1.6W — 93 mph with No Ice — 35 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 1.20
Wind Load Factor : 1.60

Wind Importance Factor : 1.15

48.00		148.8	445.0					28.3	209.4	177.1	654.4	0.0	0.0
49.00		77.4	442.7					28.4	209.4	105.8	652.1	0.0	0.0
49.04	Top - Section 1	53.3	17.6					1.1	8.4	54.5	26.0	0.0	0.0
50.00		124.9	197.2					0.0	201.0	124.9	398.2	0.0	0.0
51.00		149.1	204.3					28.6	209.4	177.7	413.7	0.0	0.0
52.00		149.2	203.3					28.7	209.4	177.9	412.7	0.0	0.0
53.00		149.2	202.2					28.9	209.4	178.1	411.6	0.0	0.0
54.00		149.2	201.1					29.0	209.4	178.2	410.5	0.0	0.0
55.00		149.2	200.1					29.1	209.4	178.3	409.5	0.0	0.0
56.00		149.2	199.0					29.2	209.4	178.4	408.4	0.0	0.0
57.00		149.1	197.9					29.3	209.4	178.5	407.3	0.0	0.0
58.00		149.1	196.9					29.4	209.4	178.5	406.3	0.0	0.0
59.00		149.0	195.8					29.5	209.4	178.5	405.2	0.0	0.0
60.00		148.9	194.7					29.6	209.4	178.5	404.1	0.0	0.0
61.00		148.8	193.7					29.7	209.4	178.5	403.1	0.0	0.0
62.00		148.7	192.6					29.8	209.4	178.5	402.0	0.0	0.0
63.00		148.5	191.5					30.0	209.4	178.5	400.9	0.0	0.0
64.00		148.4	190.5					30.1	209.4	178.4	399.9	0.0	0.0
65.00		148.2	189.4					30.2	209.4	178.4	398.8	0.0	0.0
66.00		148.0	188.3					30.3	209.4	178.3	397.7	0.0	0.0
67.00		147.8	187.3					30.4	209.4	178.2	396.7	0.0	0.0
68.00		147.6	186.2					30.4	209.4	178.1	395.6	0.0	0.0
69.00		147.4	185.1					30.5	209.4	177.9	394.5	0.0	0.0
70.00		147.1	184.1					30.6	209.4	177.8	393.5	0.0	0.0
71.00		146.9	183.0					30.7	209.4	177.6	392.4	0.0	0.0
72.00		146.6	181.9					30.8	209.4	177.5	391.3	0.0	0.0
73.00		146.4	180.9					30.9	209.4	177.3	390.3	0.0	0.0
74.00		146.1	179.8					31.0	209.4	177.1	389.2	0.0	0.0
75.00		145.8	178.7					31.1	209.4	176.9	388.1	0.0	0.0
76.00		145.4	177.7					31.2	209.4	176.6	387.1	0.0	0.0
77.00		145.1	176.6					31.3	209.4	176.4	386.0	0.0	0.0
78.00		144.8	175.5					31.4	209.4	176.1	384.9	0.0	0.0
79.00	Appertunance(s)	144.4	174.5	3.5	0.0	0.0	0.7	31.4	209.4	179.4	384.6	0.0	0.0
80.00	Appertunance(s)	144.1	173.4	1,857.2	0.0	0.0	333.6	31.5	209.2	2,032.8	716.2	0.0	0.0
81.00		143.7	172.3					31.6	208.6	175.3	380.9	0.0	0.0
82.00		143.3	171.3					31.7	208.6	175.0	379.9	0.0	0.0
83.00		142.9	170.2					31.7	208.6	174.6	378.8	0.0	0.0
84.00		142.5	169.1					31.8	208.6	174.3	377.7	0.0	0.0
85.00		142.1	168.1					31.8	208.6	173.9	376.7	0.0	0.0
86.00		141.7	167.0					31.9	208.6	173.6	375.6	0.0	0.0
87.00		108.8	165.9					31.9	208.6	140.8	374.5	0.0	0.0
87.54	Bot - Section 3	71.1	89.1					17.3	112.6	88.4	201.8	0.0	0.0
88.00		104.6	140.1					14.7	96.0	119.3	236.1	0.0	0.0
89.00		143.0	303.1					32.0	208.6	175.0	511.7	0.0	0.0
90.00		142.5	301.1					32.1	208.6	174.6	509.7	0.0	0.0
91.00		142.0	299.2					32.1	208.6	174.2	507.8	0.0	0.0
92.00		103.2	297.2					32.2	208.6	135.4	505.8	0.0	0.0
92.46	Top - Section 2	70.7	135.1					14.7	95.2	85.4	230.3	0.0	0.0
93.00		108.8	73.7					17.5	113.4	126.3	187.0	0.0	0.0
94.00		140.6	134.8					32.3	208.6	172.9	343.4	0.0	0.0
95.00		140.1	134.0					32.3	208.6	172.4	342.6	0.0	0.0
96.00	Appertunance(s)	139.6	133.1	605.2	0.0	-121.6	583.9	32.4	208.6	777.2	925.6	0.0	0.0
97.00		139.1	132.2					32.4	207.6	171.5	339.8	0.0	0.0
98.00		138.6	131.3					32.5	207.6	171.0	338.9	0.0	0.0
99.00		138.0	130.4					32.5	207.6	170.5	338.0	0.0	0.0
100.00		137.5	129.5					32.6	207.6	170.0	337.1	0.0	0.0
101.00		136.9	128.6					32.6	207.6	169.5	336.2	0.0	0.0

Load Case: 1.2D + 1.6W 93 mph with No Ice 35 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 1.20
Wind Load Factor : 1.60

Wind Importance Factor : 1.15

102.00		136.4	127.7					32.7	207.6	169.0	335.4	0.0	0.0
103.00		135.8	126.8					32.7	207.6	168.5	334.5	0.0	0.0
104.00		101.5	126.0					32.8	207.6	134.3	333.6	0.0	0.0
104.50	Reinf. Top	67.5	62.6					16.4	103.8	83.9	166.5	0.0	0.0
105.00		100.9	62.4					16.4	63.7	117.3	126.2	0.0	0.0
106.00		134.1	124.2					32.8	127.5	166.9	251.6	0.0	0.0
107.00		133.5	123.3					32.9	127.5	166.4	250.8	0.0	0.0
108.00		132.9	122.4					32.9	127.5	165.8	249.9	0.0	0.0
109.00		132.3	121.5					33.0	127.5	165.2	249.0	0.0	0.0
110.00		131.6	120.6					33.0	127.5	164.7	248.1	0.0	0.0
111.00	Appertunance(s)	131.0	119.7	456.3	0.0	0.0	95.0	33.1	127.5	620.4	342.2	0.0	0.0
112.00		130.4	118.8					33.1	121.6	163.5	240.4	0.0	0.0
113.00	Appertunance(s)	129.7	118.0	2,062.7	0.0	0.0	2,001.6	41.4	95.8	2,233.9	2,215.3	0.0	0.0
114.00		129.1	117.1					33.2	60.9	162.3	178.0	0.0	0.0
115.00		128.4	116.2					33.2	60.9	161.7	177.1	0.0	0.0
116.00		127.8	115.3					33.3	60.9	161.1	176.2	0.0	0.0
117.00		127.1	114.4					33.3	60.9	160.4	175.3	0.0	0.0
118.00		126.4	113.5					33.4	60.9	159.8	174.4	0.0	0.0
119.00		125.8	112.6					33.4	60.9	159.2	173.5	0.0	0.0
120.00		125.1	111.7					33.4	60.9	158.5	172.6	0.0	0.0
121.00		124.4	110.8					33.5	60.9	157.9	171.7	0.0	0.0
122.00	Appertunance(s)	99.7	110.0	3,538.9	0.0	0.0	2,127.7	33.5	60.9	3,672.2	2,298.6	0.0	0.0
123.00		75.4	109.1					0.0	49.1	75.4	158.2	0.0	0.0
124.00		75.1	108.2					0.0	49.1	75.1	157.3	0.0	0.0
125.00		74.9	107.3					0.0	49.1	74.9	156.4	0.0	0.0
126.00		74.7	106.4					0.0	49.1	74.7	155.5	0.0	0.0
127.00		74.5	105.5					0.0	49.1	74.5	154.6	0.0	0.0
128.00		74.3	104.6					0.0	49.1	74.3	153.7	0.0	0.0
129.00		74.1	103.7					0.0	49.1	74.1	152.8	0.0	0.0
130.00		73.9	102.8					0.0	49.1	73.9	151.9	0.0	0.0
131.00		73.7	102.0					0.0	49.1	73.7	151.0	0.0	0.0
132.00		41.2	101.1					0.0	49.1	41.2	150.2	0.0	0.0
132.12	Bot - Section 4	37.1	12.0					0.0	5.9	37.1	17.9	0.0	0.0
133.00		69.8	142.1					0.0	43.2	69.8	185.3	0.0	0.0
134.00		74.1	160.1					0.0	49.1	74.1	209.2	0.0	0.0
135.00		69.1	158.7					0.0	49.1	69.1	207.7	0.0	0.0
135.87	Top - Section 3	36.8	136.8					0.0	42.7	36.8	179.5	0.0	0.0
136.00		41.3	7.7					0.0	6.4	41.3	14.1	0.0	0.0
137.00	Appertunance(s)	72.9	59.2	3,899.7	0.0	0.0	3,619.0	0.0	49.1	3,972.6	3,727.2	0.0	0.0
138.00		72.7	58.7					0.0	44.6	72.7	103.3	0.0	0.0
139.00		72.5	58.1					0.0	44.6	72.5	102.8	0.0	0.0
140.00	Appertunance(s)	72.2	57.6	556.1	0.0	-60.2	606.0	0.0	44.6	628.3	708.2	0.0	0.0
141.00		72.0	57.1					0.0	43.9	72.0	100.9	0.0	0.0
142.00		71.7	56.5					0.0	43.9	71.7	100.4	0.0	0.0
143.00		71.5	56.0					0.0	43.9	71.5	99.9	0.0	0.0
144.00		71.2	55.5					0.0	43.9	71.2	99.3	0.0	0.0
145.00		71.0	54.9					0.0	43.9	71.0	98.8	0.0	0.0
146.00	Appertunance(s)	70.7	54.4	1,720.5	0.0	492.2	859.2	0.0	43.9	1,791.2	957.5	0.0	0.0
147.00		70.4	53.9					0.0	36.8	70.4	90.7	0.0	0.0
148.00		70.2	53.3					0.0	36.8	70.2	90.1	0.0	0.0
149.00		69.9	52.8					0.0	36.8	69.9	89.6	0.0	0.0
150.00		69.7	52.3					0.0	36.8	69.7	89.1	0.0	0.0
151.00		69.4	51.7					0.0	36.8	69.4	88.5	0.0	0.0
152.00	Appertunance(s)	69.1	51.2	217.2	0.0	0.0	190.0	0.0	36.8	286.3	278.0	0.0	0.0
153.00		68.8	50.7					0.0	35.8	68.8	86.5	0.0	0.0
154.00		68.6	50.1					0.0	35.8	68.6	86.0	0.0	0.0
155.00		68.3	49.6					0.0	35.8	68.3	85.4	0.0	0.0

Load Case: 1.2D + 1.6W 93 mph with No Ice 35 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 1.20
Wind Load Factor : 1.60

Wind Importance Factor : 1.15

156.00		68.0	49.1					0.0	35.8	68.0	84.9	0.0	0.0
157.00		67.7	48.5					0.0	35.8	67.7	84.4	0.0	0.0
158.00		67.5	48.0					0.0	35.8	67.5	83.8	0.0	0.0
159.00		67.2	47.5					0.0	35.8	67.2	83.3	0.0	0.0
160.00		80.7	46.9					0.0	35.8	80.7	82.8	0.0	0.0
161.00		93.8	46.4					17.4	35.8	111.3	82.2	0.0	0.0
162.00		92.9	45.9					17.5	35.8	110.4	81.7	0.0	0.0
163.00	Appertunance(s)	71.0	45.3	1,724.8	0.0	0.0	1,531.8	17.5	35.8	1,813.3	1,613.0	0.0	0.0
164.00		49.3	44.8					0.0	22.8	49.3	67.6	0.0	0.0
165.00		48.8	44.3					0.0	22.8	48.8	67.1	0.0	0.0
166.00		48.3	43.7					0.0	22.8	48.3	66.5	0.0	0.0
167.00		47.8	43.2					0.0	22.8	47.8	66.0	0.0	0.0
168.00		47.3	42.7					0.0	22.8	47.3	65.5	0.0	0.0
169.00		46.8	42.1					0.0	22.8	46.8	64.9	0.0	0.0
170.00		46.3	41.6					0.0	22.8	46.3	64.4	0.0	0.0
171.00		45.8	41.1					0.0	22.8	45.8	63.9	0.0	0.0
172.00		45.3	40.5					0.0	22.8	45.3	63.3	0.0	0.0
173.00		44.8	40.0					0.0	22.8	44.8	62.8	0.0	0.0
174.00	Appertunance(s)	44.2	39.5	1,286.4	0.0	0.0	1,800.0	0.0	22.8	1,330.6	1,862.3	0.0	0.0
175.00		43.7	38.9					0.0	22.8	43.7	61.7	0.0	0.0
176.00		43.2	38.4					0.0	22.8	43.2	61.2	0.0	0.0
177.00		42.7	37.9					0.0	22.8	42.7	60.7	0.0	0.0
178.00		42.1	37.3					0.0	22.8	42.1	60.2	0.0	0.0
179.00		41.6	36.8					0.0	22.8	41.6	59.6	0.0	0.0
180.00		20.7	36.3					0.0	22.8	20.7	59.1	0.0	0.0
								Totals:		39,399.2	69,681.8	0.00	0.00

Site Number: 302506 Code: ANSI/TIA-222-G

Site Name: Winchester CT 3, CT Engineering Number: OAA692405_C3_01 1/5/2017 2:52:11 PM

Customer: AT&T Mobility

Load Case: 1.2D + 1.6W 93 mph with No Ice 35 Iterations

Gust Response Factor : 1.10 Wind Importance Factor : 1.15

Dead Load Factor : 1.20

Wind Load Factor : 1.60

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	-72.39	-42.71	0.00	-4,967.30	0.00	4,967.30	5,102.86	2,551.43	10,963.2	5,489.79	0.00	0.00	0.681
1.00	-71.86	-42.66	0.00	-4,924.59	0.00	4,924.59	5,088.23	2,544.11	10,885.6	5,450.89	0.00	-0.04	0.679
2.00	-71.32	-42.60	0.00	-4,881.94	0.00	4,881.94	5,073.54	2,536.77	10,808.0	5,412.06	0.02	-0.08	0.677
3.00	-70.79	-42.55	0.00	-4,839.33	0.00	4,839.33	5,058.79	2,529.39	10,730.6	5,373.31	0.04	-0.12	0.675
4.00	-70.26	-42.50	0.00	-4,796.78	0.00	4,796.78	5,043.98	2,521.99	10,653.4	5,334.64	0.07	-0.17	0.673
5.00	-69.72	-42.45	0.00	-4,754.28	0.00	4,754.28	5,029.12	2,514.56	10,576.3	5,296.03	0.11	-0.21	0.670
6.00	-69.19	-42.40	0.00	-4,711.83	0.00	4,711.83	5,014.20	2,507.10	10,499.4	5,257.51	0.16	-0.25	0.668
7.00	-68.67	-42.35	0.00	-4,669.43	0.00	4,669.43	4,999.22	2,499.61	10,422.6	5,219.05	0.22	-0.29	0.666
8.00	-68.14	-42.29	0.00	-4,627.09	0.00	4,627.09	4,984.19	2,492.10	10,345.9	5,180.68	0.28	-0.33	0.664
9.00	-67.61	-42.24	0.00	-4,584.80	0.00	4,584.80	4,969.10	2,484.55	10,269.5	5,142.38	0.36	-0.38	0.662
10.00	-67.09	-42.19	0.00	-4,542.56	0.00	4,542.56	4,953.95	2,476.98	10,193.1	5,104.17	0.44	-0.42	0.660
11.00	-66.56	-42.13	0.00	-4,500.37	0.00	4,500.37	4,938.75	2,469.37	10,117.0	5,066.03	0.53	-0.46	0.658
12.00	-66.04	-42.08	0.00	-4,458.24	0.00	4,458.24	4,923.49	2,461.74	10,041.0	5,027.97	0.64	-0.50	0.655
13.00	-65.52	-42.02	0.00	-4,416.17	0.00	4,416.17	4,908.17	2,454.08	9,965.17	4,989.99	0.75	-0.55	0.653
14.00	-65.00	-41.97	0.00	-4,374.14	0.00	4,374.14	4,892.79	2,446.40	9,889.49	4,952.10	0.87	-0.59	0.651
15.00	-64.48	-41.91	0.00	-4,332.18	0.00	4,332.18	4,877.36	2,438.68	9,813.98	4,914.28	0.99	-0.63	0.649
16.00	-63.96	-41.86	0.00	-4,290.27	0.00	4,290.27	4,861.87	2,430.94	9,738.63	4,876.55	1.13	-0.68	0.646
17.00	-63.45	-41.80	0.00	-4,248.41	0.00	4,248.41	4,846.32	2,423.16	9,663.45	4,838.91	1.28	-0.72	0.644
18.00	-62.93	-41.74	0.00	-4,206.61	0.00	4,206.61	4,830.72	2,415.36	9,588.44	4,801.34	1.43	-0.76	0.641
19.00	-62.42	-41.69	0.00	-4,164.87	0.00	4,164.87	4,815.06	2,407.53	9,513.60	4,763.87	1.60	-0.80	0.639
20.00	-61.91	-41.63	0.00	-4,123.19	0.00	4,123.19	4,799.34	2,399.67	9,438.93	4,726.48	1.77	-0.85	0.637
21.00	-61.40	-41.57	0.00	-4,081.56	0.00	4,081.56	4,783.57	2,391.78	9,364.44	4,689.18	1.96	-0.89	0.634
22.00	-60.89	-41.51	0.00	-4,039.99	0.00	4,039.99	4,767.74	2,383.87	9,290.12	4,651.96	2.15	-0.93	0.632
23.00	-60.38	-41.45	0.00	-3,998.48	0.00	3,998.48	4,751.85	2,375.92	9,215.98	4,614.84	2.35	-0.98	0.629
24.00	-59.87	-41.39	0.00	-3,957.03	0.00	3,957.03	4,735.90	2,367.95	9,142.01	4,577.80	2.56	-1.02	0.627
25.00	-59.36	-41.34	0.00	-3,915.63	0.00	3,915.63	4,719.90	2,359.95	9,068.23	4,540.86	2.78	-1.07	0.624
26.00	-58.86	-41.28	0.00	-3,874.30	0.00	3,874.30	4,703.84	2,351.92	8,994.63	4,504.00	3.01	-1.11	0.621
27.00	-58.36	-41.22	0.00	-3,833.02	0.00	3,833.02	4,687.72	2,343.86	8,921.22	4,467.24	3.24	-1.15	0.619
28.00	-57.86	-41.15	0.00	-3,791.81	0.00	3,791.81	4,671.55	2,335.77	8,847.98	4,430.57	3.49	-1.20	0.616
29.00	-57.36	-41.09	0.00	-3,750.65	0.00	3,750.65	4,655.31	2,327.66	8,774.94	4,393.99	3.75	-1.24	0.613
30.00	-56.85	-41.00	0.00	-3,709.56	0.00	3,709.56	4,639.03	2,319.51	8,702.08	4,357.51	4.01	-1.29	0.611
31.00	-56.35	-40.94	0.00	-3,668.56	0.00	3,668.56	4,622.68	2,311.34	8,629.41	4,321.12	4.29	-1.33	0.608
32.00	-55.85	-40.88	0.00	-3,627.62	0.00	3,627.62	4,606.28	2,303.14	8,556.93	4,284.83	4.57	-1.37	0.605
33.00	-55.36	-40.81	0.00	-3,586.75	0.00	3,586.75	4,589.82	2,294.91	8,484.65	4,248.63	4.86	-1.42	0.602
34.00	-54.86	-40.74	0.00	-3,545.94	0.00	3,545.94	4,573.30	2,286.65	8,412.56	4,212.53	5.16	-1.46	0.599
35.00	-54.37	-40.68	0.00	-3,505.20	0.00	3,505.20	4,556.73	2,278.36	8,340.67	4,176.53	5.48	-1.51	0.597
36.00	-53.88	-40.61	0.00	-3,464.52	0.00	3,464.52	4,540.10	2,270.05	8,268.97	4,140.63	5.80	-1.55	0.594
37.00	-53.39	-40.54	0.00	-3,423.92	0.00	3,423.92	4,523.41	2,261.70	8,197.47	4,104.83	6.13	-1.60	0.591
38.00	-52.90	-40.47	0.00	-3,383.38	0.00	3,383.38	4,506.66	2,253.33	8,126.17	4,069.13	6.47	-1.64	0.588
39.00	-52.42	-40.39	0.00	-3,342.92	0.00	3,342.92	4,489.86	2,244.93	8,055.08	4,033.53	6.81	-1.69	0.585
40.00	-51.93	-40.32	0.00	-3,302.52	0.00	3,302.52	4,473.00	2,236.50	7,984.18	3,998.03	7.17	-1.73	0.581
41.00	-51.45	-40.25	0.00	-3,262.20	0.00	3,262.20	4,456.09	2,228.04	7,913.50	3,962.63	7.54	-1.77	0.578
42.00	-50.97	-40.17	0.00	-3,221.96	0.00	3,221.96	4,439.11	2,219.56	7,843.02	3,927.34	7.92	-1.82	0.575
42.96	-50.52	-40.13	0.00	-3,183.53	0.00	3,183.53	4,422.82	2,211.41	7,775.79	3,893.68	8.29	-1.86	0.572
43.00	-50.48	-40.09	0.00	-3,181.79	0.00	3,181.79	4,422.08	2,211.04	7,772.74	3,892.15	8.30	-1.86	0.567
44.00	-49.79	-40.00	0.00	-3,141.70	0.00	3,141.70	4,400.67	2,200.33	7,695.11	3,853.28	8.70	-1.91	0.564
45.00	-49.10	-39.92	0.00	-3,101.70	0.00	3,101.70	4,378.03	2,189.01	7,615.75	3,813.53	9.10	-1.95	0.561
46.00	-48.41	-39.80	0.00	-3,061.78	0.00	3,061.78	4,355.39	2,177.70	7,536.79	3,773.99	9.52	-2.00	0.559
47.00	-47.73	-39.64	0.00	-3,021.98	0.00	3,021.98	4,332.75	2,166.38	7,458.24	3,734.66	9.94	-2.04	0.556
48.00	-47.05	-39.48	0.00	-2,982.34	0.00	2,982.34	4,310.11	2,155.06	7,380.10	3,695.54	10.37	-2.09	0.553
49.00	-46.39	-39.37	0.00	-2,942.86	0.00	2,942.86	4,287.47	2,143.74	7,302.38	3,656.62	10.82	-2.13	0.550

Load Case: 1.2D + 1.6W 93 mph with No Ice 35 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 1.20
Wind Load Factor : 1.60

Wind Importance Factor : 1.15

49.04	-46.35	-39.33	0.00	-2,941.29	0.00	2,941.29	3,604.17	1,802.08	6,267.69	3,138.50	10.83	-2.13	0.621
50.00	-45.93	-39.23	0.00	-2,903.53	0.00	2,903.53	3,591.50	1,795.75	6,214.33	3,111.78	11.27	-2.18	0.617
51.00	-45.49	-39.07	0.00	-2,864.30	0.00	2,864.30	3,578.26	1,789.13	6,158.90	3,084.03	11.73	-2.22	0.612
52.00	-45.05	-38.91	0.00	-2,825.23	0.00	2,825.23	3,564.96	1,782.48	6,103.60	3,056.34	12.20	-2.27	0.608
53.00	-44.61	-38.76	0.00	-2,786.32	0.00	2,786.32	3,551.60	1,775.80	6,048.46	3,028.72	12.68	-2.32	0.604
54.00	-44.18	-38.60	0.00	-2,747.57	0.00	2,747.57	3,538.18	1,769.09	5,993.45	3,001.18	13.17	-2.36	0.599
55.00	-43.75	-38.44	0.00	-2,708.97	0.00	2,708.97	3,524.70	1,762.35	5,938.60	2,973.71	13.67	-2.41	0.595
56.00	-43.31	-38.28	0.00	-2,670.53	0.00	2,670.53	3,511.17	1,755.59	5,883.90	2,946.32	14.18	-2.46	0.590
57.00	-42.88	-38.12	0.00	-2,632.25	0.00	2,632.25	3,497.59	1,748.79	5,829.34	2,919.00	14.70	-2.51	0.586
58.00	-42.45	-37.96	0.00	-2,594.14	0.00	2,594.14	3,483.94	1,741.97	5,774.94	2,891.76	15.23	-2.55	0.581
59.00	-42.03	-37.79	0.00	-2,556.18	0.00	2,556.18	3,470.24	1,735.12	5,720.69	2,864.60	15.77	-2.60	0.577
60.00	-41.60	-37.63	0.00	-2,518.39	0.00	2,518.39	3,456.48	1,728.24	5,666.60	2,837.51	16.32	-2.65	0.572
61.00	-41.17	-37.47	0.00	-2,480.75	0.00	2,480.75	3,442.66	1,721.33	5,612.67	2,810.51	16.88	-2.69	0.568
62.00	-40.75	-37.30	0.00	-2,443.29	0.00	2,443.29	3,428.79	1,714.39	5,558.89	2,783.58	17.45	-2.74	0.563
63.00	-40.33	-37.14	0.00	-2,405.98	0.00	2,405.98	3,414.86	1,707.43	5,505.28	2,756.73	18.03	-2.79	0.558
64.00	-39.91	-36.98	0.00	-2,368.84	0.00	2,368.84	3,400.87	1,700.44	5,451.82	2,729.96	18.62	-2.84	0.554
65.00	-39.49	-36.81	0.00	-2,331.87	0.00	2,331.87	3,386.83	1,693.41	5,398.53	2,703.28	19.22	-2.88	0.549
66.00	-39.07	-36.64	0.00	-2,295.06	0.00	2,295.06	3,372.72	1,686.36	5,345.41	2,676.68	19.83	-2.93	0.544
67.00	-38.65	-36.48	0.00	-2,258.42	0.00	2,258.42	3,358.57	1,679.28	5,292.45	2,650.16	20.45	-2.98	0.539
68.00	-38.24	-36.31	0.00	-2,221.94	0.00	2,221.94	3,344.35	1,672.18	5,239.65	2,623.72	21.08	-3.02	0.534
69.00	-37.82	-36.14	0.00	-2,185.64	0.00	2,185.64	3,330.08	1,665.04	5,187.03	2,597.37	21.72	-3.07	0.530
70.00	-37.41	-35.97	0.00	-2,149.50	0.00	2,149.50	3,315.75	1,657.87	5,134.58	2,571.11	22.36	-3.12	0.525
71.00	-37.00	-35.80	0.00	-2,113.53	0.00	2,113.53	3,301.36	1,650.68	5,082.30	2,544.93	23.02	-3.16	0.520
72.00	-36.59	-35.63	0.00	-2,077.72	0.00	2,077.72	3,286.92	1,643.46	5,030.20	2,518.84	23.69	-3.21	0.515
73.00	-36.18	-35.46	0.00	-2,042.09	0.00	2,042.09	3,272.42	1,636.21	4,978.27	2,492.84	24.37	-3.25	0.510
74.00	-35.78	-35.29	0.00	-2,006.63	0.00	2,006.63	3,257.86	1,628.93	4,926.52	2,466.92	25.05	-3.30	0.504
75.00	-35.37	-35.12	0.00	-1,971.34	0.00	1,971.34	3,242.30	1,621.15	4,873.54	2,440.39	25.75	-3.35	0.499
76.00	-34.97	-34.95	0.00	-1,936.21	0.00	1,936.21	3,222.90	1,611.45	4,815.08	2,411.12	26.46	-3.39	0.495
77.00	-34.57	-34.78	0.00	-1,901.26	0.00	1,901.26	3,203.49	1,601.75	4,756.98	2,382.03	27.17	-3.44	0.490
78.00	-34.17	-34.61	0.00	-1,866.49	0.00	1,866.49	3,184.09	1,592.04	4,699.23	2,353.11	27.89	-3.48	0.486
79.00	-33.77	-34.43	0.00	-1,831.88	0.00	1,831.88	3,164.68	1,582.34	4,641.84	2,324.37	28.63	-3.53	0.481
80.00	-33.15	-32.38	0.00	-1,797.45	0.00	1,797.45	3,145.28	1,572.64	4,584.79	2,295.80	29.37	-3.57	0.476
81.00	-32.76	-32.21	0.00	-1,765.07	0.00	1,765.07	3,125.87	1,562.94	4,528.10	2,267.42	30.13	-3.62	0.472
82.00	-32.36	-32.04	0.00	-1,732.86	0.00	1,732.86	3,106.47	1,553.24	4,471.77	2,239.21	30.89	-3.66	0.468
83.00	-31.97	-31.86	0.00	-1,700.82	0.00	1,700.82	3,087.07	1,543.53	4,415.78	2,211.17	31.66	-3.71	0.463
84.00	-31.58	-31.69	0.00	-1,668.96	0.00	1,668.96	3,067.66	1,533.83	4,360.15	2,183.32	32.44	-3.75	0.459
85.00	-31.19	-31.51	0.00	-1,637.27	0.00	1,637.27	3,048.26	1,524.13	4,304.87	2,155.63	33.23	-3.79	0.455
86.00	-30.81	-31.34	0.00	-1,605.76	0.00	1,605.76	3,028.85	1,514.43	4,249.94	2,128.13	34.03	-3.84	0.450
87.00	-30.42	-31.19	0.00	-1,574.42	0.00	1,574.42	3,009.45	1,504.72	4,195.37	2,100.80	34.84	-3.88	0.445
87.54	-30.22	-31.10	0.00	-1,557.57	0.00	1,557.57	2,998.97	1,499.48	4,166.05	2,086.12	35.28	-3.91	0.443
88.00	-29.97	-30.98	0.00	-1,543.27	0.00	1,543.27	2,990.04	1,495.02	4,141.15	2,073.65	35.66	-3.93	0.435
89.00	-29.45	-30.80	0.00	-1,512.28	0.00	1,512.28	2,970.64	1,485.32	4,087.28	2,046.68	36.48	-3.97	0.430
90.00	-28.93	-30.61	0.00	-1,481.49	0.00	1,481.49	2,951.23	1,475.62	4,033.76	2,019.88	37.32	-4.01	0.426
91.00	-28.41	-30.42	0.00	-1,450.88	0.00	1,450.88	2,931.83	1,465.91	3,980.60	1,993.26	38.16	-4.05	0.421
92.00	-27.90	-30.26	0.00	-1,420.46	0.00	1,420.46	2,912.42	1,456.21	3,927.79	1,966.81	39.02	-4.10	0.416
92.46	-27.67	-30.17	0.00	-1,406.64	0.00	1,406.64	2,412.07	1,206.04	3,317.78	1,661.36	39.41	-4.12	0.461
93.00	-27.47	-30.05	0.00	-1,390.25	0.00	1,390.25	2,405.85	1,202.93	3,297.34	1,651.12	39.88	-4.14	0.458
94.00	-27.12	-29.87	0.00	-1,360.20	0.00	1,360.20	2,394.36	1,197.18	3,259.83	1,632.34	40.75	-4.18	0.451
95.00	-26.77	-29.70	0.00	-1,330.33	0.00	1,330.33	2,382.81	1,191.41	3,222.46	1,613.62	41.63	-4.23	0.445
96.00	-25.88	-28.87	0.00	-1,300.63	0.00	1,300.63	2,371.21	1,185.60	3,185.22	1,594.98	42.52	-4.27	0.438
97.00	-25.53	-28.70	0.00	-1,271.76	0.00	1,271.76	2,359.55	1,179.77	3,148.11	1,576.40	43.42	-4.32	0.431
98.00	-25.19	-28.52	0.00	-1,243.06	0.00	1,243.06	2,347.83	1,173.91	3,111.14	1,557.88	44.33	-4.36	0.425
99.00	-24.84	-28.34	0.00	-1,214.55	0.00	1,214.55	2,336.05	1,168.03	3,074.31	1,539.44	45.25	-4.40	0.418
100.00	-24.50	-28.16	0.00	-1,186.20	0.00	1,186.20	2,324.22	1,162.11	3,037.61	1,521.06	46.17	-4.45	0.412
101.00	-24.15	-27.99	0.00	-1,158.04	0.00	1,158.04	2,312.33	1,156.16	3,001.06	1,502.76	47.11	-4.49	0.405
102.00	-23.81	-27.81	0.00	-1,130.06	0.00	1,130.06	2,300.38	1,150.19	2,964.65	1,484.53	48.05	-4.53	0.398
103.00	-23.47	-27.63	0.00	-1,102.25	0.00	1,102.25	2,288.38	1,144.19	2,928.39	1,466.37	49.01	-4.57	0.391

Load Case: 1.2D + 1.6W 93 mph with No Ice 35 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 1.20
Wind Load Factor : 1.60

Wind Importance Factor : 1.15

104.00	-23.14	-27.48	0.00	-1,074.61	0.00	1,074.61	2,276.31	1,138.16	2,892.27	1,448.28	49.97	-4.62	0.385
104.50	-22.97	-27.40	0.00	-1,060.87	0.00	1,060.87	2,270.26	1,135.13	2,874.26	1,439.27	50.45	-4.64	0.381
104.50	-22.97	-27.40	0.00	-1,060.87	0.00	1,060.87	2,270.26	1,135.13	2,874.26	1,439.27	50.45	-4.64	0.748
105.00	-22.83	-27.29	0.00	-1,047.18	0.00	1,047.18	2,264.20	1,132.10	2,856.29	1,430.27	50.94	-4.66	0.743
106.00	-22.55	-27.13	0.00	-1,019.89	0.00	1,019.89	2,251.29	1,125.65	2,819.56	1,411.88	51.92	-4.74	0.733
107.00	-22.28	-26.98	0.00	-992.76	0.00	992.76	2,235.12	1,117.56	2,779.00	1,391.56	52.92	-4.82	0.724
108.00	-22.01	-26.82	0.00	-965.78	0.00	965.78	2,218.95	1,109.48	2,738.73	1,371.40	53.94	-4.90	0.715
109.00	-21.73	-26.67	0.00	-938.96	0.00	938.96	2,202.78	1,101.39	2,698.75	1,351.38	54.97	-4.98	0.705
110.00	-21.47	-26.51	0.00	-912.29	0.00	912.29	2,186.61	1,093.30	2,659.07	1,331.51	56.02	-5.05	0.696
111.00	-21.14	-25.89	0.00	-885.78	0.00	885.78	2,170.44	1,085.22	2,619.69	1,311.79	57.09	-5.13	0.686
112.00	-20.89	-25.73	0.00	-859.90	0.00	859.90	2,154.27	1,077.13	2,580.59	1,292.21	58.17	-5.21	0.676
113.00	-18.85	-23.33	0.00	-834.16	0.00	834.16	2,138.10	1,069.05	2,541.79	1,272.79	59.27	-5.29	0.665
114.00	-18.66	-23.18	0.00	-810.83	0.00	810.83	2,121.93	1,060.96	2,503.29	1,253.50	60.39	-5.36	0.656
115.00	-18.47	-23.02	0.00	-787.65	0.00	787.65	2,105.76	1,052.88	2,465.08	1,234.37	61.52	-5.44	0.647
116.00	-18.28	-22.87	0.00	-764.63	0.00	764.63	2,089.59	1,044.79	2,427.16	1,215.38	62.66	-5.52	0.638
117.00	-18.09	-22.72	0.00	-741.76	0.00	741.76	2,073.42	1,036.71	2,389.54	1,196.54	63.82	-5.59	0.629
118.00	-17.90	-22.57	0.00	-719.04	0.00	719.04	2,057.25	1,028.62	2,352.21	1,177.85	65.00	-5.66	0.620
119.00	-17.72	-22.41	0.00	-696.48	0.00	696.48	2,041.07	1,020.54	2,315.17	1,159.31	66.19	-5.74	0.610
120.00	-17.53	-22.26	0.00	-674.06	0.00	674.06	2,024.90	1,012.45	2,278.43	1,140.91	67.40	-5.81	0.600
121.00	-17.35	-22.11	0.00	-651.80	0.00	651.80	2,008.73	1,004.37	2,241.98	1,122.66	68.63	-5.88	0.590
122.00	-15.42	-18.24	0.00	-629.70	0.00	629.70	1,992.56	996.28	2,205.83	1,104.55	69.86	-5.96	0.578
123.00	-15.25	-18.16	0.00	-611.46	0.00	611.46	1,976.39	988.20	2,169.97	1,086.60	71.12	-6.03	0.571
124.00	-15.08	-18.09	0.00	-593.30	0.00	593.30	1,960.22	980.11	2,134.40	1,068.79	72.39	-6.10	0.563
125.00	-14.91	-18.02	0.00	-575.21	0.00	575.21	1,944.05	972.03	2,099.13	1,051.12	73.67	-6.17	0.555
126.00	-14.74	-17.95	0.00	-557.19	0.00	557.19	1,927.88	963.94	2,064.15	1,033.61	74.97	-6.24	0.547
127.00	-14.57	-17.87	0.00	-539.24	0.00	539.24	1,911.71	955.86	2,029.46	1,016.24	76.28	-6.31	0.539
128.00	-14.41	-17.80	0.00	-521.37	0.00	521.37	1,895.54	947.77	1,995.07	999.02	77.60	-6.38	0.530
129.00	-14.24	-17.72	0.00	-503.57	0.00	503.57	1,879.37	939.68	1,960.98	981.95	78.95	-6.45	0.521
130.00	-14.08	-17.65	0.00	-485.85	0.00	485.85	1,863.20	931.60	1,927.17	965.02	80.30	-6.51	0.511
131.00	-13.92	-17.58	0.00	-468.20	0.00	468.20	1,847.03	923.51	1,893.66	948.24	81.67	-6.58	0.502
132.00	-13.76	-17.53	0.00	-450.62	0.00	450.62	1,830.86	915.43	1,860.45	931.61	83.05	-6.65	0.492
132.12	-13.74	-17.50	0.00	-448.52	0.00	448.52	1,828.92	914.46	1,856.49	929.63	83.22	-6.65	0.490
133.00	-13.54	-17.42	0.00	-433.12	0.00	433.12	1,814.69	907.34	1,827.53	915.12	84.45	-6.71	0.481
134.00	-13.32	-17.34	0.00	-415.70	0.00	415.70	1,798.52	899.26	1,794.90	898.78	85.86	-6.78	0.470
135.00	-13.11	-17.26	0.00	-398.37	0.00	398.37	1,782.35	891.17	1,762.57	882.59	87.28	-6.84	0.459
135.87	-12.93	-17.21	0.00	-383.36	0.00	383.36	993.95	496.97	1,000.68	501.09	88.53	-6.89	0.779
136.00	-12.90	-17.18	0.00	-381.12	0.00	381.12	993.20	496.60	998.76	500.12	88.72	-6.90	0.776
137.00	-9.66	-12.80	0.00	-363.94	0.00	363.94	987.45	493.72	984.00	492.73	90.17	-7.00	0.749
138.00	-9.55	-12.73	0.00	-351.14	0.00	351.14	981.64	490.82	969.28	485.36	91.64	-7.09	0.734
139.00	-9.43	-12.66	0.00	-338.42	0.00	338.42	975.77	487.88	954.62	478.02	93.14	-7.19	0.718
140.00	-8.79	-11.96	0.00	-325.76	0.00	325.76	969.84	484.92	940.01	470.70	94.65	-7.28	0.702
141.00	-8.68	-11.89	0.00	-313.80	0.00	313.80	963.86	481.93	925.45	463.41	96.18	-7.37	0.687
142.00	-8.57	-11.82	0.00	-301.91	0.00	301.91	957.82	478.91	910.95	456.15	97.73	-7.46	0.671
143.00	-8.46	-11.75	0.00	-290.09	0.00	290.09	951.72	475.86	896.50	448.92	99.30	-7.55	0.656
144.00	-8.36	-11.68	0.00	-278.34	0.00	278.34	945.56	472.78	882.11	441.71	100.89	-7.64	0.640
145.00	-8.25	-11.61	0.00	-266.66	0.00	266.66	939.35	469.68	867.78	434.53	102.49	-7.73	0.623
146.00	-7.53	-9.71	0.00	-254.56	0.00	254.56	933.08	466.54	853.51	427.39	104.12	-7.82	0.604
147.00	-7.43	-9.64	0.00	-244.85	0.00	244.85	926.76	463.38	839.30	420.27	105.76	-7.90	0.591
148.00	-7.34	-9.57	0.00	-235.21	0.00	235.21	920.37	460.19	825.16	413.19	107.42	-7.99	0.578
149.00	-7.25	-9.50	0.00	-225.64	0.00	225.64	913.93	456.97	811.08	406.14	109.10	-8.07	0.564
150.00	-7.16	-9.43	0.00	-216.13	0.00	216.13	907.44	453.72	797.07	399.13	110.79	-8.16	0.550
151.00	-7.06	-9.36	0.00	-206.71	0.00	206.71	900.88	450.44	783.12	392.14	112.50	-8.24	0.535
152.00	-6.82	-9.04	0.00	-197.35	0.00	197.35	894.27	447.14	769.25	385.20	114.23	-8.32	0.520
153.00	-6.73	-8.97	0.00	-188.30	0.00	188.30	887.60	443.80	755.45	378.29	115.97	-8.40	0.506
154.00	-6.64	-8.90	0.00	-179.33	0.00	179.33	880.88	440.44	741.72	371.41	117.74	-8.48	0.491
155.00	-6.56	-8.83	0.00	-170.43	0.00	170.43	874.09	437.05	728.06	364.57	119.51	-8.55	0.475
156.00	-6.47	-8.76	0.00	-161.60	0.00	161.60	867.26	433.63	714.49	357.77	121.31	-8.63	0.460

Load Case: 1.2D + 1.6W 93 mph with No Ice 35 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 1.20
Wind Load Factor : 1.60

Wind Importance Factor : 1.15

157.00	-6.39	-8.69	0.00	-152.84	0.00	152.84	860.36	430.18	700.99	351.01	123.11	-8.70	0.443
158.00	-6.30	-8.62	0.00	-144.15	0.00	144.15	853.41	426.70	687.57	344.29	124.94	-8.77	0.426
159.00	-6.22	-8.54	0.00	-135.54	0.00	135.54	846.39	423.20	674.23	337.61	126.77	-8.84	0.409
160.00	-6.14	-8.46	0.00	-127.00	0.00	127.00	839.33	419.66	660.97	330.98	128.63	-8.91	0.391
161.00	-6.07	-8.34	0.00	-118.54	0.00	118.54	832.20	416.10	647.80	324.38	130.49	-8.98	0.373
162.00	-6.00	-8.23	0.00	-110.19	0.00	110.19	825.02	412.51	634.71	317.83	132.37	-9.04	0.354
163.00	-4.68	-6.19	0.00	-101.97	0.00	101.97	817.78	408.89	621.71	311.32	134.26	-9.10	0.333
164.00	-4.62	-6.13	0.00	-95.78	0.00	95.78	810.15	405.07	608.54	304.72	136.17	-9.16	0.320
165.00	-4.56	-6.08	0.00	-89.65	0.00	89.65	800.44	400.22	593.98	297.43	138.08	-9.21	0.307
166.00	-4.49	-6.02	0.00	-83.57	0.00	83.57	790.74	395.37	579.60	290.23	140.01	-9.27	0.294
167.00	-4.43	-5.97	0.00	-77.55	0.00	77.55	781.04	390.52	565.39	283.11	141.95	-9.32	0.280
168.00	-4.37	-5.92	0.00	-71.58	0.00	71.58	771.34	385.67	551.35	276.09	143.90	-9.37	0.265
169.00	-4.31	-5.86	0.00	-65.66	0.00	65.66	761.63	380.82	537.50	269.15	145.86	-9.42	0.250
170.00	-4.24	-5.81	0.00	-59.79	0.00	59.79	751.93	375.97	523.82	262.30	147.83	-9.47	0.234
171.00	-4.19	-5.76	0.00	-53.98	0.00	53.98	742.23	371.11	510.32	255.54	149.81	-9.51	0.217
172.00	-4.13	-5.71	0.00	-48.23	0.00	48.23	732.53	366.26	496.99	248.86	151.80	-9.55	0.200
173.00	-4.07	-5.65	0.00	-42.52	0.00	42.52	722.82	361.41	483.84	242.28	153.80	-9.59	0.181
174.00	-2.45	-4.03	0.00	-36.87	0.00	36.87	713.12	356.56	470.86	235.78	155.80	-9.63	0.160
175.00	-2.40	-3.98	0.00	-32.83	0.00	32.83	703.42	351.71	458.07	229.37	157.81	-9.66	0.147
176.00	-2.34	-3.93	0.00	-28.85	0.00	28.85	693.72	346.86	445.44	223.05	159.83	-9.69	0.133
177.00	-2.29	-3.88	0.00	-24.93	0.00	24.93	684.02	342.01	433.00	216.82	161.85	-9.71	0.118
178.00	-2.23	-3.83	0.00	-21.05	0.00	21.05	674.31	337.16	420.73	210.68	163.88	-9.74	0.103
179.00	-2.18	-3.78	0.00	-17.22	0.00	17.22	664.61	332.31	408.64	204.62	165.91	-9.76	0.088
180.00	0.00	-3.35	0.00	-13.44	0.00	13.44	654.91	327.45	396.72	198.65	167.94	-9.77	0.068

Load Case: 0.9D + 1.6W — 93 mph with No Ice (Reduced DL) — 35 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 0.90
Wind Load Factor : 1.60
Wind Importance Factor : 1.15

Shaft Segment Forces (Factored)

Seg Top Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf		Ice Thick (in)	Tributary (ft)	Ap (sf)	EPAs (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.70	16.933	18.62	372.45	0.650		0.000	0.00	0.000	0.00	43.1	0.0	0.0
1.00		1.00	0.70	16.933	18.62	371.67	0.650	*	0.000	1.00	4.454	2.90	86.1	0.0	222.0
2.00		1.00	0.70	16.933	18.62	370.12	0.650	*	0.000	1.00	4.436	2.88	85.7	0.0	221.1
3.00		1.00	0.70	16.933	18.62	368.57	0.650	*	0.000	1.00	4.417	2.87	85.4	0.0	220.1
4.00		1.00	0.70	16.933	18.62	367.02	0.650	*	0.000	1.00	4.399	2.86	85.0	0.0	219.2
5.00		1.00	0.70	16.933	18.62	365.48	0.650	*	0.000	1.00	4.380	2.85	84.7	0.0	218.3
6.00		1.00	0.70	16.933	18.62	363.93	0.650	*	0.000	1.00	4.362	2.83	84.3	0.0	217.3
7.00		1.00	0.70	16.933	18.62	362.38	0.650	*	0.000	1.00	4.343	2.82	83.9	0.0	216.4
8.00		1.00	0.70	16.933	18.62	360.83	0.650	*	0.000	1.00	4.324	2.81	83.6	0.0	215.5
9.00		1.00	0.70	16.933	18.62	359.28	0.650	*	0.000	1.00	4.306	2.80	83.2	0.0	214.5
10.00		1.00	0.70	16.933	18.62	357.73	0.650	*	0.000	1.00	4.287	2.79	82.9	0.0	213.6
11.00		1.00	0.70	16.933	18.62	356.18	0.650	*	0.000	1.00	4.269	2.77	82.5	0.0	212.7
12.00		1.00	0.70	16.933	18.62	354.63	0.650	*	0.000	1.00	4.250	2.76	82.1	0.0	211.7
13.00		1.00	0.70	16.933	18.62	353.08	0.650	*	0.000	1.00	4.232	2.75	81.8	0.0	210.8
14.00		1.00	0.70	16.933	18.62	351.53	0.650	*	0.000	1.00	4.213	2.74	81.4	0.0	209.9
15.00		1.00	0.70	16.933	18.62	349.98	0.650	*	0.000	1.00	4.194	2.73	81.1	0.0	208.9
16.00		1.00	0.70	16.933	18.62	348.43	0.650	*	0.000	1.00	4.176	2.71	80.7	0.0	208.0
17.00		1.00	0.70	16.933	18.62	346.88	0.650	*	0.000	1.00	4.157	2.70	80.4	0.0	207.1
18.00		1.00	0.70	16.933	18.62	345.33	0.650	*	0.000	1.00	4.139	2.69	80.0	0.0	206.1
19.00		1.00	0.70	16.933	18.62	343.78	0.650	*	0.000	1.00	4.120	2.68	79.6	0.0	205.2
20.00		1.00	0.70	16.933	18.62	342.23	0.650	*	0.000	1.00	4.102	2.67	79.3	0.0	204.3
21.00		1.00	0.70	16.933	18.62	340.68	0.650	*	0.000	1.00	4.083	2.65	78.9	0.0	203.3
22.00		1.00	0.70	16.933	18.62	339.13	0.650	*	0.000	1.00	4.064	2.64	78.6	0.0	202.4
23.00		1.00	0.70	16.933	18.62	337.59	0.650	*	0.000	1.00	4.046	2.63	78.2	0.0	201.5
24.00		1.00	0.70	16.933	18.62	336.04	0.650	*	0.000	1.00	4.027	2.62	77.8	0.0	200.5
25.00		1.00	0.70	16.933	18.62	334.49	0.650	*	0.000	1.00	4.009	2.61	77.5	0.0	199.6
26.00		1.00	0.70	16.933	18.62	332.94	0.650	*	0.000	1.00	3.990	2.59	77.1	0.0	198.7
27.00		1.00	0.70	16.933	18.62	331.39	0.650	*	0.000	1.00	3.972	2.58	76.8	0.0	197.7
28.00		1.00	0.70	16.933	18.62	329.84	0.650	*	0.000	1.00	3.953	2.57	76.4	0.0	196.8
29.00		1.00	0.70	16.933	18.62	328.29	0.650	*	0.000	1.00	3.934	2.56	76.0	0.0	195.9
30.00	Appertunance(s)	1.00	0.70	16.933	18.62	326.74	0.650	*	0.000	1.00	3.916	2.55	75.9	0.0	194.9
31.00		1.00	0.70	17.027	18.73	326.10	0.650	*	0.000	1.00	3.897	2.53	76.1	0.0	194.0
32.00		1.00	0.71	17.185	18.90	326.04	0.650	*	0.000	1.00	3.879	2.52	76.4	0.0	193.1
33.00		1.00	0.71	17.339	19.07	325.93	0.650	*	0.000	1.00	3.860	2.51	76.7	0.0	192.1
34.00		1.00	0.72	17.490	19.23	325.77	0.650	*	0.000	1.00	3.842	2.50	77.0	0.0	191.2
35.00		1.00	0.72	17.637	19.40	325.56	0.650	*	0.000	1.00	3.823	2.48	77.3	0.0	190.3
36.00		1.00	0.73	17.782	19.56	325.31	0.650	*	0.000	1.00	3.804	2.47	77.5	0.0	189.3
37.00		1.00	0.74	17.924	19.71	325.01	0.650	*	0.000	1.00	3.786	2.46	77.7	0.0	188.4
38.00		1.00	0.74	18.063	19.86	324.66	0.650	*	0.000	1.00	3.767	2.45	77.9	0.0	187.5
39.00		1.00	0.75	18.199	20.01	324.28	0.650	*	0.000	1.00	3.749	2.44	78.1	0.0	186.5
40.00		1.00	0.75	18.333	20.16	323.86	0.650	*	0.000	1.00	3.730	2.42	78.3	0.0	185.6
41.00		1.00	0.76	18.464	20.31	323.40	0.650	*	0.000	1.00	3.712	2.41	78.5	0.0	184.7
42.00		1.00	0.76	18.593	20.45	322.90	0.650	*	0.000	1.00	3.693	2.40	76.9	0.0	183.7
42.96	Bot - Section 2	1.00	0.77	18.718	20.58	322.39	0.650	*	0.000	0.96	3.515	2.28	39.4	0.0	174.9
43.00		1.00	0.77	18.780	20.65	322.11	0.650	*	0.000	0.04	0.162	0.11	41.8	0.0	14.8
44.00		1.00	0.77	18.845	20.73	321.81	0.650	*	0.000	1.00	3.719	2.42	80.2	0.0	340.7
45.00		1.00	0.78	18.968	20.86	321.22	0.650	*	0.000	1.00	3.701	2.41	80.4	0.0	339.0
46.00		1.00	0.78	19.089	20.99	320.60	0.650	*	0.000	1.00	3.682	2.39	114.5	0.0	337.2
47.00		1.00	0.79	19.208	21.12	319.94	1.200	*	0.000	1.00	3.664	4.40	148.7	0.0	335.5
48.00		1.00	0.79	19.325	21.25	319.26	1.200	*	0.000	1.00	3.645	4.37	148.8	0.0	333.8
49.00		1.00	0.80	19.440	21.38	318.55	1.200	*	0.000	1.00	3.627	4.35	77.4	0.0	332.0

Load Case: 0.9D + 1.6W — 93 mph with No Ice (Reduced DL) — 35 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 0.90
Wind Load Factor : 1.60

Wind Importance Factor : 1.15

49.04	Top - Section 1	1.00	0.80	19.499	21.44	318.17	1.200	*	0.000	0.04	0.144	0.17	41.7	0.0	13.2
50.00		1.00	0.80	19.556	21.51	323.49	0.650	*	0.000	0.96	3.464	2.25	113.3	0.0	147.9
51.00		1.00	0.81	19.666	21.63	322.76	1.200	*	0.000	1.00	3.589	4.31	149.1	0.0	153.2
52.00		1.00	0.81	19.776	21.75	322.00	1.200	*	0.000	1.00	3.571	4.28	149.2	0.0	152.4
53.00		1.00	0.82	19.885	21.87	321.20	1.200	*	0.000	1.00	3.552	4.26	149.2	0.0	151.6
54.00		1.00	0.82	19.993	21.99	320.39	1.200	*	0.000	1.00	3.534	4.24	149.2	0.0	150.8
55.00		1.00	0.83	20.099	22.10	319.55	1.200	*	0.000	1.00	3.515	4.22	149.2	0.0	150.0
56.00		1.00	0.83	20.204	22.22	318.69	1.200	*	0.000	1.00	3.497	4.20	149.2	0.0	149.2
57.00		1.00	0.83	20.307	22.33	317.80	1.200	*	0.000	1.00	3.478	4.17	149.1	0.0	148.4
58.00		1.00	0.84	20.409	22.45	316.90	1.200	*	0.000	1.00	3.459	4.15	149.1	0.0	147.6
59.00		1.00	0.84	20.510	22.56	315.98	1.200	*	0.000	1.00	3.441	4.13	149.0	0.0	146.8
60.00		1.00	0.85	20.609	22.67	315.03	1.200	*	0.000	1.00	3.422	4.11	148.9	0.0	146.0
61.00		1.00	0.85	20.708	22.77	314.07	1.200	*	0.000	1.00	3.404	4.08	148.8	0.0	145.2
62.00		1.00	0.86	20.805	22.88	313.09	1.200	*	0.000	1.00	3.385	4.06	148.7	0.0	144.4
63.00		1.00	0.86	20.901	22.99	312.09	1.200	*	0.000	1.00	3.367	4.04	148.5	0.0	143.6
64.00		1.00	0.86	20.996	23.09	311.07	1.200	*	0.000	1.00	3.348	4.02	148.4	0.0	142.8
65.00		1.00	0.87	21.090	23.19	310.04	1.200	*	0.000	1.00	3.329	4.00	148.2	0.0	142.0
66.00		1.00	0.87	21.183	23.30	308.99	1.200	*	0.000	1.00	3.311	3.97	148.0	0.0	141.2
67.00		1.00	0.88	21.275	23.40	307.92	1.200	*	0.000	1.00	3.292	3.95	147.8	0.0	140.4
68.00		1.00	0.88	21.366	23.50	306.84	1.200	*	0.000	1.00	3.274	3.93	147.6	0.0	139.6
69.00		1.00	0.88	21.456	23.60	305.74	1.200	*	0.000	1.00	3.255	3.91	147.4	0.0	138.8
70.00		1.00	0.89	21.545	23.69	304.62	1.200	*	0.000	1.00	3.237	3.88	147.1	0.0	138.0
71.00		1.00	0.89	21.633	23.79	303.50	1.200	*	0.000	1.00	3.218	3.86	146.9	0.0	137.2
72.00		1.00	0.89	21.720	23.89	302.35	1.200	*	0.000	1.00	3.199	3.84	146.6	0.0	136.4
73.00		1.00	0.90	21.806	23.98	301.19	1.200	*	0.000	1.00	3.181	3.82	146.4	0.0	135.7
74.00		1.00	0.90	21.892	24.08	300.02	1.200	*	0.000	1.00	3.162	3.79	146.1	0.0	134.9
75.00		1.00	0.90	21.977	24.17	298.84	1.200	*	0.000	1.00	3.144	3.77	145.8	0.0	134.1
76.00		1.00	0.91	22.060	24.26	297.64	1.200	*	0.000	1.00	3.125	3.75	145.4	0.0	133.3
77.00		1.00	0.91	22.143	24.35	296.43	1.200	*	0.000	1.00	3.107	3.73	145.1	0.0	132.5
78.00		1.00	0.91	22.226	24.44	295.20	1.200	*	0.000	1.00	3.088	3.71	144.8	0.0	131.7
79.00	Appertunance(s)	1.00	0.92	22.307	24.53	293.96	1.200	*	0.000	1.00	3.069	3.68	144.4	0.0	130.9
80.00	Appertunance(s)	1.00	0.92	22.388	24.62	292.71	1.200	*	0.000	1.00	3.051	3.66	144.1	0.0	130.1
81.00		1.00	0.92	22.468	24.71	291.45	1.200	*	0.000	1.00	3.032	3.64	143.7	0.0	129.3
82.00		1.00	0.93	22.548	24.80	290.18	1.200	*	0.000	1.00	3.014	3.62	143.3	0.0	128.5
83.00		1.00	0.93	22.626	24.88	288.89	1.200	*	0.000	1.00	2.995	3.59	142.9	0.0	127.7
84.00		1.00	0.93	22.704	24.97	287.60	1.200	*	0.000	1.00	2.977	3.57	142.5	0.0	126.9
85.00		1.00	0.94	22.782	25.06	286.29	1.200	*	0.000	1.00	2.958	3.55	142.1	0.0	126.1
86.00		1.00	0.94	22.858	25.14	284.97	1.200	*	0.000	1.00	2.939	3.53	141.7	0.0	125.3
87.00		1.00	0.94	22.935	25.22	283.64	1.200	*	0.000	1.00	2.921	3.51	108.8	0.0	124.5
87.54	Bot - Section 3	1.00	0.95	22.993	25.29	282.61	1.200	*	0.000	0.54	1.569	1.88	71.1	0.0	66.9
88.00		1.00	0.95	23.030	25.33	281.94	1.200	*	0.000	0.46	1.357	1.63	104.6	0.0	105.1
89.00		1.00	0.95	23.085	25.39	280.95	1.200	*	0.000	1.00	2.937	3.52	143.0	0.0	227.3
90.00		1.00	0.95	23.159	25.47	279.59	1.200	*	0.000	1.00	2.918	3.50	142.5	0.0	225.9
91.00		1.00	0.96	23.233	25.55	278.22	1.200	*	0.000	1.00	2.899	3.48	142.0	0.0	224.4
92.00		1.00	0.96	23.306	25.63	276.84	1.200	*	0.000	1.00	2.881	3.46	103.2	0.0	222.9
92.46	Top - Section 2	1.00	0.96	23.359	25.69	275.83	1.200	*	0.000	0.46	1.309	1.57	70.7	0.0	101.3
93.00		1.00	0.96	23.395	25.73	280.32	1.200	*	0.000	0.54	1.553	1.86	108.8	0.0	55.2
94.00		1.00	0.96	23.450	25.79	279.24	1.200	*	0.000	1.00	2.844	3.41	140.6	0.0	101.1
95.00		1.00	0.97	23.522	25.87	277.84	1.200	*	0.000	1.00	2.825	3.39	140.1	0.0	100.5
96.00	Appertunance(s)	1.00	0.97	23.592	25.95	276.43	1.200	*	0.000	1.00	2.807	3.37	139.6	0.0	99.8
97.00		1.00	0.97	23.663	26.02	275.01	1.200	*	0.000	1.00	2.788	3.35	139.1	0.0	99.1
98.00		1.00	0.98	23.733	26.10	273.58	1.200	*	0.000	1.00	2.770	3.32	138.6	0.0	98.5
99.00		1.00	0.98	23.802	26.18	272.14	1.200	*	0.000	1.00	2.751	3.30	138.0	0.0	97.8
100.0		1.00	0.98	23.871	26.25	270.70	1.200	*	0.000	1.00	2.732	3.28	137.5	0.0	97.1
101.0		1.00	0.99	23.939	26.33	269.24	1.200	*	0.000	1.00	2.714	3.26	136.9	0.0	96.5
102.0		1.00	0.99	24.007	26.40	267.78	1.200	*	0.000	1.00	2.695	3.23	136.4	0.0	95.8
103.0		1.00	0.99	24.074	26.48	266.30	1.200	*	0.000	1.00	2.677	3.21	135.8	0.0	95.1

Load Case: 0.9D + 1.6W — 93 mph with No Ice (Reduced DL) — 35 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 0.90
Wind Load Factor : 1.60

Wind Importance Factor : 1.15

104.0		1.00	0.99	24.141	26.55	264.82	1.200	* 0.000	1.00	2.658	3.19	101.5	0.0	94.5
104.5	Reinf. Top	1.00	1.00	24.191	26.61	263.71	1.200	* 0.000	0.50	1.322	1.59	67.5	0.0	47.0
105.0		1.00	1.00	24.224	26.64	262.96	1.200	* 0.000	0.50	1.317	1.58	100.9	0.0	46.8
106.0		1.00	1.00	24.273	26.70	261.84	1.200	* 0.000	1.00	2.621	3.15	134.1	0.0	93.1
107.0		1.00	1.00	24.339	26.77	260.33	1.200	* 0.000	1.00	2.602	3.12	133.5	0.0	92.5
108.0		1.00	1.00	24.404	26.84	258.82	1.200	* 0.000	1.00	2.584	3.10	132.9	0.0	91.8
109.0		1.00	1.01	24.469	26.91	257.30	1.200	* 0.000	1.00	2.565	3.08	132.3	0.0	91.1
110.0		1.00	1.01	24.533	26.98	255.77	1.200	* 0.000	1.00	2.547	3.06	131.6	0.0	90.5
111.0	Appertunance(s)	1.00	1.01	24.597	27.05	254.24	1.200	* 0.000	1.00	2.528	3.03	131.0	0.0	89.8
112.0		1.00	1.01	24.660	27.12	252.70	1.200	* 0.000	1.00	2.510	3.01	130.4	0.0	89.1
113.0	Appertunance(s)	1.00	1.02	24.723	27.19	251.15	1.200	* 0.000	1.00	2.491	2.99	129.7	0.0	88.5
114.0		1.00	1.02	24.786	27.26	249.59	1.200	* 0.000	1.00	2.472	2.97	129.1	0.0	87.8
115.0		1.00	1.02	24.848	27.33	248.03	1.200	* 0.000	1.00	2.454	2.94	128.4	0.0	87.1
116.0		1.00	1.03	24.910	27.40	246.46	1.200	* 0.000	1.00	2.435	2.92	127.8	0.0	86.5
117.0		1.00	1.03	24.971	27.46	244.88	1.200	* 0.000	1.00	2.417	2.90	127.1	0.0	85.8
118.0		1.00	1.03	25.032	27.53	243.29	1.200	* 0.000	1.00	2.398	2.88	126.4	0.0	85.1
119.0		1.00	1.03	25.093	27.60	241.70	1.200	* 0.000	1.00	2.380	2.86	125.8	0.0	84.5
120.0		1.00	1.04	25.153	27.66	240.10	1.200	* 0.000	1.00	2.361	2.83	125.1	0.0	83.8
121.0		1.00	1.04	25.213	27.73	238.50	1.200	* 0.000	1.00	2.342	2.81	124.4	0.0	83.1
122.0	Appertunance(s)	1.00	1.04	25.273	27.80	236.89	1.200	* 0.000	1.00	2.324	2.79	95.4	0.0	82.5
123.0		1.00	1.04	25.332	27.86	235.27	0.650	* 0.000	1.00	2.305	1.50	66.6	0.0	81.8
124.0		1.00	1.05	25.391	27.93	233.65	0.650	* 0.000	1.00	2.287	1.49	66.2	0.0	81.1
125.0		1.00	1.05	25.449	27.99	232.02	0.650	* 0.000	1.00	2.268	1.47	65.8	0.0	80.5
126.0		1.00	1.05	25.508	28.05	230.38	0.650	* 0.000	1.00	2.250	1.46	65.4	0.0	79.8
127.0		1.00	1.05	25.566	28.12	228.74	0.650	* 0.000	1.00	2.231	1.45	65.1	0.0	79.1
128.0		1.00	1.05	25.623	28.18	227.09	0.650	* 0.000	1.00	2.212	1.44	64.7	0.0	78.5
129.0		1.00	1.06	25.680	28.24	225.43	0.650	* 0.000	1.00	2.194	1.43	64.3	0.0	77.8
130.0		1.00	1.06	25.737	28.31	223.77	0.650	* 0.000	1.00	2.175	1.41	63.8	0.0	77.1
131.0		1.00	1.06	25.794	28.37	222.11	0.650	* 0.000	1.00	2.157	1.40	63.4	0.0	76.5
132.0		1.00	1.06	25.850	28.43	220.44	0.650	* 0.000	1.00	2.138	1.39	35.4	0.0	75.8
132.1	Bot - Section 4	1.00	1.07	25.882	28.47	219.50	0.650	* 0.000	0.12	0.255	0.17	31.8	0.0	9.0
133.0		1.00	1.07	25.910	28.50	218.66	0.650	* 0.000	0.88	1.893	1.23	59.7	0.0	106.6
134.0		1.00	1.07	25.962	28.55	217.07	0.650	* 0.000	1.00	2.133	1.39	63.1	0.0	120.1
135.0		1.00	1.07	26.017	28.61	215.38	0.650	* 0.000	1.00	2.114	1.37	58.7	0.0	119.0
135.8	Top - Section 3	1.00	1.07	26.069	28.67	213.80	0.650	* 0.000	0.87	1.824	1.19	31.3	0.0	102.6
136.0		1.00	1.07	26.096	28.70	216.24	0.650	* 0.000	0.13	0.272	0.18	35.1	0.0	5.8
137.0	Appertunance(s)	1.00	1.08	26.127	28.74	215.28	0.650	* 0.000	1.00	2.077	1.35	61.9	0.0	44.4
138.0		1.00	1.08	26.182	28.80	213.58	0.650	* 0.000	1.00	2.058	1.34	61.4	0.0	44.0
139.0		1.00	1.08	26.236	28.86	211.87	0.650	* 0.000	1.00	2.040	1.33	61.0	0.0	43.6
140.0	Appertunance(s)	1.00	1.08	26.290	28.91	210.16	0.650	* 0.000	1.00	2.021	1.31	60.6	0.0	43.2
141.0		1.00	1.08	26.344	28.97	208.44	0.650	* 0.000	1.00	2.003	1.30	60.1	0.0	42.8
142.0		1.00	1.09	26.397	29.03	206.72	0.650	* 0.000	1.00	1.984	1.29	59.7	0.0	42.4
143.0		1.00	1.09	26.450	29.09	204.99	0.650	* 0.000	1.00	1.966	1.28	59.3	0.0	42.0
144.0		1.00	1.09	26.503	29.15	203.25	0.650	* 0.000	1.00	1.947	1.27	58.8	0.0	41.6
145.0		1.00	1.09	26.556	29.21	201.51	0.650	* 0.000	1.00	1.928	1.25	58.4	0.0	41.2
146.0	Appertunance(s)	1.00	1.10	26.608	29.26	199.77	0.650	* 0.000	1.00	1.910	1.24	57.9	0.0	40.8
147.0		1.00	1.10	26.660	29.32	198.02	0.650	* 0.000	1.00	1.891	1.23	57.5	0.0	40.4
148.0		1.00	1.10	26.712	29.38	196.27	0.650	* 0.000	1.00	1.873	1.22	57.0	0.0	40.0
149.0		1.00	1.10	26.764	29.44	194.51	0.650	* 0.000	1.00	1.854	1.21	56.5	0.0	39.6
150.0		1.00	1.10	26.815	29.49	192.75	0.650	* 0.000	1.00	1.836	1.19	56.1	0.0	39.2
151.0		1.00	1.11	26.866	29.55	190.98	0.650	* 0.000	1.00	1.817	1.18	55.6	0.0	38.8
152.0	Appertunance(s)	1.00	1.11	26.917	29.60	189.21	0.650	* 0.000	1.00	1.799	1.17	55.1	0.0	38.4
153.0		1.00	1.11	26.968	29.66	187.43	0.650	* 0.000	1.00	1.780	1.16	54.7	0.0	38.0
154.0		1.00	1.11	27.018	29.72	185.65	0.650	* 0.000	1.00	1.761	1.14	54.2	0.0	37.6
155.0		1.00	1.11	27.069	29.77	183.86	0.650	* 0.000	1.00	1.743	1.13	53.7	0.0	37.2
156.0		1.00	1.12	27.119	29.83	182.07	0.650	* 0.000	1.00	1.724	1.12	53.3	0.0	36.8
157.0		1.00	1.12	27.168	29.88	180.27	0.650	* 0.000	1.00	1.706	1.11	52.8	0.0	36.4

Site Number:	302506	Code: ANSI/TIA-222-G		
Site Name:	Winchester CT 3, CT	Engineering Number: OAA692405_C3_01		1/5/2017 2:52:13 PM
Customer:	AT&T Mobility			

Load Case: 0.9D + 1.6W — 93 mph with No Ice (Reduced DL) — 35 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 0.90
Wind Load Factor : 1.60

Wind Importance Factor : 1.15

158.0		1.00	1.12	27.218	29.93	178.47	0.650	* 0.000	1.00	1.687	1.10	52.3	0.0	36.0
159.0		1.00	1.12	27.267	29.99	176.67	0.650	* 0.000	1.00	1.669	1.08	51.8	0.0	35.6
160.0		1.00	1.12	27.316	30.04	174.86	0.650	* 0.000	1.00	1.650	1.07	72.9	0.0	35.2
161.0		1.00	1.13	27.365	30.10	173.04	1.200	* 0.000	1.00	1.631	1.96	93.8	0.0	34.8
162.0		1.00	1.13	27.413	30.15	171.23	1.200	* 0.000	1.00	1.613	1.94	92.9	0.0	34.4
163.0	Appertunance(s)	1.00	1.13	27.462	30.20	169.40	1.200	* 0.000	1.00	1.594	1.91	71.0	0.0	34.0
164.0		1.00	1.13	27.510	30.26	167.58	0.650	0.000	1.00	1.576	1.02	49.3	0.0	33.6
165.0		1.00	1.13	27.558	30.31	165.75	0.650	0.000	1.00	1.557	1.01	48.8	0.0	33.2
166.0		1.00	1.14	27.606	30.36	163.91	0.650	0.000	1.00	1.539	1.00	48.3	0.0	32.8
167.0		1.00	1.14	27.653	30.41	162.07	0.650	0.000	1.00	1.520	0.99	47.8	0.0	32.4
168.0		1.00	1.14	27.701	30.47	160.23	0.650	0.000	1.00	1.501	0.98	47.3	0.0	32.0
169.0		1.00	1.14	27.748	30.52	158.38	0.650	0.000	1.00	1.483	0.96	46.8	0.0	31.6
170.0		1.00	1.14	27.795	30.57	156.53	0.650	0.000	1.00	1.464	0.95	46.3	0.0	31.2
171.0		1.00	1.15	27.842	30.62	154.68	0.650	0.000	1.00	1.446	0.94	45.8	0.0	30.8
172.0		1.00	1.15	27.888	30.67	152.82	0.650	0.000	1.00	1.427	0.93	45.3	0.0	30.4
173.0		1.00	1.15	27.934	30.72	150.96	0.650	0.000	1.00	1.409	0.92	44.8	0.0	30.0
174.0	Appertunance(s)	1.00	1.15	27.981	30.77	149.09	0.650	0.000	1.00	1.390	0.90	44.2	0.0	29.6
175.0		1.00	1.15	28.027	30.82	147.22	0.650	0.000	1.00	1.371	0.89	43.7	0.0	29.2
176.0		1.00	1.16	28.072	30.88	145.34	0.650	0.000	1.00	1.353	0.88	43.2	0.0	28.8
177.0		1.00	1.16	28.118	30.93	143.46	0.650	0.000	1.00	1.334	0.87	42.7	0.0	28.4
178.0		1.00	1.16	28.163	30.98	141.58	0.650	0.000	1.00	1.316	0.86	42.1	0.0	28.0
179.0		1.00	1.16	28.209	31.03	139.70	0.650	0.000	1.00	1.297	0.84	41.6	0.0	27.6
180.0	Appertunance(s)	1.00	1.16	28.254	31.07	137.81	0.650	0.000	1.00	1.279	0.83	20.7	0.0	27.2
* = Cf Adjusted By Linear Load Ra Effect							Totals:		180.00			17,670.1	0.0	22,744.0

Site Number: 302506 Code: ANSI/TIA-222-G

Site Name: Winchester CT 3, CT Engineering Number: OAA692405_C3_01 1/5/2017 2:52:29 PM

Customer: AT&T Mobility

Load Case: 0.9D + 1.6W 93 mph with No Ice (Reduced DL) 35 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 0.90
Wind Load Factor : 1.60

Wind Importance Factor : 1.15

Applied Segment Forces Summary

		Shaft Forces		Discrete Forces				Linear Forces		Sum of Forces			
Seg Elev (ft)	Description	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		43.1	0.0					0.0	0.0	43.1	0.0	0.0	0.0
1.00		86.1	222.0					0.0	157.3	86.1	379.3	0.0	0.0
2.00		85.7	221.1					0.0	157.3	85.7	378.4	0.0	0.0
3.00		85.4	220.1					0.0	157.3	85.4	377.5	0.0	0.0
4.00		85.0	219.2					0.0	157.3	85.0	376.5	0.0	0.0
5.00		84.7	218.3					0.0	157.3	84.7	375.6	0.0	0.0
6.00		84.3	217.3					0.0	157.3	84.3	374.7	0.0	0.0
7.00		83.9	216.4					0.0	157.3	83.9	373.7	0.0	0.0
8.00		83.6	215.5					0.0	157.3	83.6	372.8	0.0	0.0
9.00		83.2	214.5					0.0	157.3	83.2	371.9	0.0	0.0
10.00		82.9	213.6					0.0	157.3	82.9	370.9	0.0	0.0
11.00		82.5	212.7					0.0	157.3	82.5	370.0	0.0	0.0
12.00		82.1	211.7					0.0	157.3	82.1	369.1	0.0	0.0
13.00		81.8	210.8					0.0	157.3	81.8	368.1	0.0	0.0
14.00		81.4	209.9					0.0	157.3	81.4	367.2	0.0	0.0
15.00		81.1	208.9					0.0	157.3	81.1	366.3	0.0	0.0
16.00		80.7	208.0					0.0	157.3	80.7	365.3	0.0	0.0
17.00		80.4	207.1					0.0	157.3	80.4	364.4	0.0	0.0
18.00		80.0	206.1					0.0	157.3	80.0	363.5	0.0	0.0
19.00		79.6	205.2					0.0	157.3	79.6	362.5	0.0	0.0
20.00		79.3	204.3					0.0	157.3	79.3	361.6	0.0	0.0
21.00		78.9	203.3					0.0	157.3	78.9	360.7	0.0	0.0
22.00		78.6	202.4					0.0	157.3	78.6	359.7	0.0	0.0
23.00		78.2	201.5					0.0	157.3	78.2	358.8	0.0	0.0
24.00		77.8	200.5					0.0	157.3	77.8	357.9	0.0	0.0
25.00		77.5	199.6					0.0	157.3	77.5	356.9	0.0	0.0
26.00		77.1	198.7					0.0	157.3	77.1	356.0	0.0	0.0
27.00		76.8	197.7					0.0	157.3	76.8	355.1	0.0	0.0
28.00		76.4	196.8					0.0	157.3	76.4	354.1	0.0	0.0
29.00		76.0	195.9					0.0	157.3	76.0	353.2	0.0	0.0
30.00	Appertunance(s)	75.9	194.9	29.8	0.0	0.0	9.0	0.0	157.3	105.7	361.3	0.0	0.0
31.00		76.1	194.0					0.0	157.0	76.1	351.0	0.0	0.0
32.00		76.4	193.1					0.0	157.0	76.4	350.1	0.0	0.0
33.00		76.7	192.1					0.0	157.0	76.7	349.2	0.0	0.0
34.00		77.0	191.2					0.0	157.0	77.0	348.2	0.0	0.0
35.00		77.3	190.3					0.0	157.0	77.3	347.3	0.0	0.0
36.00		77.5	189.3					0.0	157.0	77.5	346.4	0.0	0.0
37.00		77.7	188.4					0.0	157.0	77.7	345.4	0.0	0.0
38.00		77.9	187.5					0.0	157.0	77.9	344.5	0.0	0.0
39.00		78.1	186.5					0.0	157.0	78.1	343.6	0.0	0.0
40.00		78.3	185.6					0.0	157.0	78.3	342.6	0.0	0.0
41.00		78.5	184.7					0.0	157.0	78.5	341.7	0.0	0.0
42.00		76.9	183.7					0.0	157.0	76.9	340.8	0.0	0.0
42.96	Bot - Section 2	39.4	174.9					0.0	150.2	39.4	325.1	0.0	0.0
43.00		41.8	14.8					0.0	6.8	41.8	21.7	0.0	0.0
44.00		80.2	340.7					0.0	157.0	80.2	497.8	0.0	0.0
45.00		80.4	339.0					0.0	157.0	80.4	496.0	0.0	0.0
46.00		114.5	337.2					0.0	157.0	114.5	494.3	0.0	0.0
47.00		148.7	335.5					28.1	157.0	176.8	492.6	0.0	0.0

Load Case: 0.9D + 1.6W — 93 mph with No Ice (Reduced DL) — 35 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 0.90
Wind Load Factor : 1.60

Wind Importance Factor : 1.15

48.00		148.8	333.8					28.3	157.0	177.1	490.8	0.0	0.0
49.00		77.4	332.0					28.4	157.0	105.8	489.1	0.0	0.0
49.04	Top - Section 1	41.7	13.2					1.1	6.3	42.9	19.5	0.0	0.0
50.00		113.3	147.9					0.0	150.8	113.3	298.7	0.0	0.0
51.00		149.1	153.2					28.6	157.0	177.7	310.3	0.0	0.0
52.00		149.2	152.4					28.7	157.0	177.9	309.5	0.0	0.0
53.00		149.2	151.6					28.9	157.0	178.1	308.7	0.0	0.0
54.00		149.2	150.8					29.0	157.0	178.2	307.9	0.0	0.0
55.00		149.2	150.0					29.1	157.0	178.3	307.1	0.0	0.0
56.00		149.2	149.2					29.2	157.0	178.4	306.3	0.0	0.0
57.00		149.1	148.4					29.3	157.0	178.5	305.5	0.0	0.0
58.00		149.1	147.6					29.4	157.0	178.5	304.7	0.0	0.0
59.00		149.0	146.8					29.5	157.0	178.5	303.9	0.0	0.0
60.00		148.9	146.0					29.6	157.0	178.5	303.1	0.0	0.0
61.00		148.8	145.2					29.7	157.0	178.5	302.3	0.0	0.0
62.00		148.7	144.4					29.8	157.0	178.5	301.5	0.0	0.0
63.00		148.5	143.6					30.0	157.0	178.5	300.7	0.0	0.0
64.00		148.4	142.8					30.1	157.0	178.4	299.9	0.0	0.0
65.00		148.2	142.0					30.2	157.0	178.4	299.1	0.0	0.0
66.00		148.0	141.2					30.3	157.0	178.3	298.3	0.0	0.0
67.00		147.8	140.4					30.4	157.0	178.2	297.5	0.0	0.0
68.00		147.6	139.6					30.4	157.0	178.1	296.7	0.0	0.0
69.00		147.4	138.8					30.5	157.0	177.9	295.9	0.0	0.0
70.00		147.1	138.0					30.6	157.0	177.8	295.1	0.0	0.0
71.00		146.9	137.2					30.7	157.0	177.6	294.3	0.0	0.0
72.00		146.6	136.4					30.8	157.0	177.5	293.5	0.0	0.0
73.00		146.4	135.7					30.9	157.0	177.3	292.7	0.0	0.0
74.00		146.1	134.9					31.0	157.0	177.1	291.9	0.0	0.0
75.00		145.8	134.1					31.1	157.0	176.9	291.1	0.0	0.0
76.00		145.4	133.3					31.2	157.0	176.6	290.3	0.0	0.0
77.00		145.1	132.5					31.3	157.0	176.4	289.5	0.0	0.0
78.00		144.8	131.7					31.4	157.0	176.1	288.7	0.0	0.0
79.00	Appertunance(s)	144.4	130.9	3.5	0.0	0.0	0.5	31.4	157.0	179.4	288.4	0.0	0.0
80.00	Appertunance(s)	144.1	130.1	1,857.2	0.0	0.0	250.2	31.5	156.9	2,032.8	537.2	0.0	0.0
81.00		143.7	129.3					31.6	156.5	175.3	285.7	0.0	0.0
82.00		143.3	128.5					31.7	156.5	175.0	284.9	0.0	0.0
83.00		142.9	127.7					31.7	156.5	174.6	284.1	0.0	0.0
84.00		142.5	126.9					31.8	156.5	174.3	283.3	0.0	0.0
85.00		142.1	126.1					31.8	156.5	173.9	282.5	0.0	0.0
86.00		141.7	125.3					31.9	156.5	173.6	281.7	0.0	0.0
87.00		108.8	124.5					31.9	156.5	140.8	280.9	0.0	0.0
87.54	Bot - Section 3	71.1	66.9					17.3	84.5	88.4	151.3	0.0	0.0
88.00		104.6	105.1					14.7	72.0	119.3	177.1	0.0	0.0
89.00		143.0	227.3					32.0	156.5	175.0	383.8	0.0	0.0
90.00		142.5	225.9					32.1	156.5	174.6	382.3	0.0	0.0
91.00		142.0	224.4					32.1	156.5	174.2	380.8	0.0	0.0
92.00		103.2	222.9					32.2	156.5	135.4	379.4	0.0	0.0
92.46	Top - Section 2	70.7	101.3					14.7	71.4	85.4	172.7	0.0	0.0
93.00		108.8	55.2					17.5	85.0	126.3	140.3	0.0	0.0
94.00		140.6	101.1					32.3	156.5	172.9	257.6	0.0	0.0
95.00		140.1	100.5					32.3	156.5	172.4	256.9	0.0	0.0
96.00	Appertunance(s)	139.6	99.8	605.2	0.0	-121.6	437.9	32.4	156.5	777.2	694.2	0.0	0.0
97.00		139.1	99.1					32.4	155.7	171.5	254.9	0.0	0.0
98.00		138.6	98.5					32.5	155.7	171.0	254.2	0.0	0.0
99.00		138.0	97.8					32.5	155.7	170.5	253.5	0.0	0.0
100.00		137.5	97.1					32.6	155.7	170.0	252.9	0.0	0.0
101.00		136.9	96.5					32.6	155.7	169.5	252.2	0.0	0.0

Load Case: 0.9D + 1.6W 93 mph with No Ice (Reduced DL) 35 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 0.90
Wind Load Factor : 1.60

Wind Importance Factor : 1.15

102.00		136.4	95.8					32.7	155.7	169.0	251.5	0.0	0.0
103.00		135.8	95.1					32.7	155.7	168.5	250.9	0.0	0.0
104.00		101.5	94.5					32.8	155.7	134.3	250.2	0.0	0.0
104.50	Reinf. Top	67.5	47.0					16.4	77.9	83.9	124.8	0.0	0.0
105.00		100.9	46.8					16.4	47.8	117.3	94.6	0.0	0.0
106.00		134.1	93.1					32.8	95.6	166.9	188.7	0.0	0.0
107.00		133.5	92.5					32.9	95.6	166.4	188.1	0.0	0.0
108.00		132.9	91.8					32.9	95.6	165.8	187.4	0.0	0.0
109.00		132.3	91.1					33.0	95.6	165.2	186.7	0.0	0.0
110.00		131.6	90.5					33.0	95.6	164.7	186.1	0.0	0.0
111.00	Appertunance(s)	131.0	89.8	456.3	0.0	0.0	71.3	33.1	95.6	620.4	256.7	0.0	0.0
112.00		130.4	89.1					33.1	91.2	163.5	180.3	0.0	0.0
113.00	Appertunance(s)	129.7	88.5	2,062.7	0.0	0.0	1,501.2	41.4	71.8	2,233.9	1,661.5	0.0	0.0
114.00		129.1	87.8					33.2	45.7	162.3	133.5	0.0	0.0
115.00		128.4	87.1					33.2	45.7	161.7	132.8	0.0	0.0
116.00		127.8	86.5					33.3	45.7	161.1	132.1	0.0	0.0
117.00		127.1	85.8					33.3	45.7	160.4	131.5	0.0	0.0
118.00		126.4	85.1					33.4	45.7	159.8	130.8	0.0	0.0
119.00		125.8	84.5					33.4	45.7	159.2	130.1	0.0	0.0
120.00		125.1	83.8					33.4	45.7	158.5	129.5	0.0	0.0
121.00		124.4	83.1					33.5	45.7	157.9	128.8	0.0	0.0
122.00	Appertunance(s)	95.4	82.5	3,538.9	0.0	0.0	1,595.8	33.5	45.7	3,667.9	1,723.9	0.0	0.0
123.00		66.6	81.8					0.0	36.8	66.6	118.6	0.0	0.0
124.00		66.2	81.1					0.0	36.8	66.2	118.0	0.0	0.0
125.00		65.8	80.5					0.0	36.8	65.8	117.3	0.0	0.0
126.00		65.4	79.8					0.0	36.8	65.4	116.6	0.0	0.0
127.00		65.1	79.1					0.0	36.8	65.1	116.0	0.0	0.0
128.00		64.7	78.5					0.0	36.8	64.7	115.3	0.0	0.0
129.00		64.3	77.8					0.0	36.8	64.3	114.6	0.0	0.0
130.00		63.8	77.1					0.0	36.8	63.8	114.0	0.0	0.0
131.00		63.4	76.5					0.0	36.8	63.4	113.3	0.0	0.0
132.00		35.4	75.8					0.0	36.8	35.4	112.6	0.0	0.0
132.12	Bot - Section 4	31.8	9.0					0.0	4.4	31.8	13.4	0.0	0.0
133.00		59.7	106.6					0.0	32.4	59.7	139.0	0.0	0.0
134.00		63.1	120.1					0.0	36.8	63.1	156.9	0.0	0.0
135.00		58.7	119.0					0.0	36.8	58.7	155.8	0.0	0.0
135.87	Top - Section 3	31.3	102.6					0.0	32.0	31.3	134.7	0.0	0.0
136.00		35.1	5.8					0.0	4.8	35.1	10.6	0.0	0.0
137.00	Appertunance(s)	61.9	44.4	3,899.7	0.0	0.0	2,714.2	0.0	36.8	3,961.6	2,795.4	0.0	0.0
138.00		61.4	44.0					0.0	33.5	61.4	77.5	0.0	0.0
139.00		61.0	43.6					0.0	33.5	61.0	77.1	0.0	0.0
140.00	Appertunance(s)	60.6	43.2	556.1	0.0	-60.2	454.5	0.0	33.5	616.6	531.2	0.0	0.0
141.00		60.1	42.8					0.0	32.9	60.1	75.7	0.0	0.0
142.00		59.7	42.4					0.0	32.9	59.7	75.3	0.0	0.0
143.00		59.3	42.0					0.0	32.9	59.3	74.9	0.0	0.0
144.00		58.8	41.6					0.0	32.9	58.8	74.5	0.0	0.0
145.00		58.4	41.2					0.0	32.9	58.4	74.1	0.0	0.0
146.00	Appertunance(s)	57.9	40.8	1,720.5	0.0	492.2	644.4	0.0	32.9	1,778.4	718.1	0.0	0.0
147.00		57.5	40.4					0.0	27.6	57.5	68.0	0.0	0.0
148.00		57.0	40.0					0.0	27.6	57.0	67.6	0.0	0.0
149.00		56.5	39.6					0.0	27.6	56.5	67.2	0.0	0.0
150.00		56.1	39.2					0.0	27.6	56.1	66.8	0.0	0.0
151.00		55.6	38.8					0.0	27.6	55.6	66.4	0.0	0.0
152.00	Appertunance(s)	55.1	38.4	217.2	0.0	0.0	142.5	0.0	27.6	272.3	208.5	0.0	0.0
153.00		54.7	38.0					0.0	26.9	54.7	64.9	0.0	0.0
154.00		54.2	37.6					0.0	26.9	54.2	64.5	0.0	0.0
155.00		53.7	37.2					0.0	26.9	53.7	64.1	0.0	0.0

Load Case: 0.9D + 1.6W 93 mph with No Ice (Reduced DL) 35 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 0.90
Wind Load Factor : 1.60

Wind Importance Factor : 1.15

156.00		53.3	36.8					0.0	26.9	53.3	63.7	0.0	0.0
157.00		52.8	36.4					0.0	26.9	52.8	63.3	0.0	0.0
158.00		52.3	36.0					0.0	26.9	52.3	62.9	0.0	0.0
159.00		51.8	35.6					0.0	26.9	51.8	62.5	0.0	0.0
160.00		72.9	35.2					0.0	26.9	72.9	62.1	0.0	0.0
161.00		93.8	34.8					17.4	26.9	111.3	61.7	0.0	0.0
162.00		92.9	34.4					17.5	26.9	110.4	61.3	0.0	0.0
163.00	Appertunance(s)	71.0	34.0	1,724.8	0.0	0.0	1,148.8	17.5	26.9	1,813.3	1,209.7	0.0	0.0
164.00		49.3	33.6					0.0	17.1	49.3	50.7	0.0	0.0
165.00		48.8	33.2					0.0	17.1	48.8	50.3	0.0	0.0
166.00		48.3	32.8					0.0	17.1	48.3	49.9	0.0	0.0
167.00		47.8	32.4					0.0	17.1	47.8	49.5	0.0	0.0
168.00		47.3	32.0					0.0	17.1	47.3	49.1	0.0	0.0
169.00		46.8	31.6					0.0	17.1	46.8	48.7	0.0	0.0
170.00		46.3	31.2					0.0	17.1	46.3	48.3	0.0	0.0
171.00		45.8	30.8					0.0	17.1	45.8	47.9	0.0	0.0
172.00		45.3	30.4					0.0	17.1	45.3	47.5	0.0	0.0
173.00		44.8	30.0					0.0	17.1	44.8	47.1	0.0	0.0
174.00	Appertunance(s)	44.2	29.6	1,286.4	0.0	0.0	1,350.0	0.0	17.1	1,330.6	1,396.7	0.0	0.0
175.00		43.7	29.2					0.0	17.1	43.7	46.3	0.0	0.0
176.00		43.2	28.8					0.0	17.1	43.2	45.9	0.0	0.0
177.00		42.7	28.4					0.0	17.1	42.7	45.5	0.0	0.0
178.00		42.1	28.0					0.0	17.1	42.1	45.1	0.0	0.0
179.00		41.6	27.6					0.0	17.1	41.6	44.7	0.0	0.0
180.00		20.7	27.2					0.0	17.1	20.7	44.3	0.0	0.0
								Totals:		38,049.3	52,261.3	0.00	0.00

Site Number: 302506 Code: ANSI/TIA-222-G

Site Name: Winchester CT 3, CT Engineering Number: OAA692405_C3_01 1/5/2017 2:52:29 PM

Customer: AT&T Mobility

Load Case: 0.9D + 1.6W 93 mph with No Ice (Reduced DL) 35 Iterations

Gust Response Factor : 1.10 Wind Importance Factor : 1.15

Dead Load Factor : 0.90

Wind Load Factor : 1.60

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	-54.29	-41.36	0.00	-4,804.69	0.00	4,804.69	5,102.86	2,551.43	10,963.2	5,489.79	0.00	0.00	0.656
1.00	-53.88	-41.31	0.00	-4,763.33	0.00	4,763.33	5,088.23	2,544.11	10,885.6	5,450.89	0.00	-0.04	0.654
2.00	-53.48	-41.26	0.00	-4,722.03	0.00	4,722.03	5,073.54	2,536.77	10,808.0	5,412.06	0.02	-0.08	0.652
3.00	-53.07	-41.21	0.00	-4,680.77	0.00	4,680.77	5,058.79	2,529.39	10,730.6	5,373.31	0.04	-0.12	0.650
4.00	-52.67	-41.16	0.00	-4,639.56	0.00	4,639.56	5,043.98	2,521.99	10,653.4	5,334.64	0.07	-0.16	0.648
5.00	-52.26	-41.11	0.00	-4,598.40	0.00	4,598.40	5,029.12	2,514.56	10,576.3	5,296.03	0.11	-0.20	0.646
6.00	-51.86	-41.06	0.00	-4,557.28	0.00	4,557.28	5,014.20	2,507.10	10,499.4	5,257.51	0.15	-0.24	0.644
7.00	-51.46	-41.01	0.00	-4,516.22	0.00	4,516.22	4,999.22	2,499.61	10,422.6	5,219.05	0.21	-0.28	0.642
8.00	-51.05	-40.97	0.00	-4,475.21	0.00	4,475.21	4,984.19	2,492.10	10,345.9	5,180.68	0.27	-0.32	0.640
9.00	-50.65	-40.92	0.00	-4,434.24	0.00	4,434.24	4,969.10	2,484.55	10,269.5	5,142.38	0.35	-0.36	0.638
10.00	-50.25	-40.87	0.00	-4,393.33	0.00	4,393.33	4,953.95	2,476.98	10,193.1	5,104.17	0.43	-0.41	0.636
11.00	-49.85	-40.82	0.00	-4,352.46	0.00	4,352.46	4,938.75	2,469.37	10,117.0	5,066.03	0.52	-0.45	0.634
12.00	-49.46	-40.77	0.00	-4,311.64	0.00	4,311.64	4,923.49	2,461.74	10,041.0	5,027.97	0.62	-0.49	0.632
13.00	-49.06	-40.72	0.00	-4,270.88	0.00	4,270.88	4,908.17	2,454.08	9,965.17	4,989.99	0.72	-0.53	0.629
14.00	-48.66	-40.67	0.00	-4,230.16	0.00	4,230.16	4,892.79	2,446.40	9,889.49	4,952.10	0.84	-0.57	0.627
15.00	-48.27	-40.62	0.00	-4,189.49	0.00	4,189.49	4,877.36	2,438.68	9,813.98	4,914.28	0.96	-0.61	0.625
16.00	-47.88	-40.57	0.00	-4,148.87	0.00	4,148.87	4,861.87	2,430.94	9,738.63	4,876.55	1.10	-0.65	0.623
17.00	-47.48	-40.52	0.00	-4,108.31	0.00	4,108.31	4,846.32	2,423.16	9,663.45	4,838.91	1.24	-0.69	0.620
18.00	-47.09	-40.47	0.00	-4,067.79	0.00	4,067.79	4,830.72	2,415.36	9,588.44	4,801.34	1.39	-0.74	0.618
19.00	-46.70	-40.42	0.00	-4,027.32	0.00	4,027.32	4,815.06	2,407.53	9,513.60	4,763.87	1.55	-0.78	0.616
20.00	-46.31	-40.37	0.00	-3,986.90	0.00	3,986.90	4,799.34	2,399.67	9,438.93	4,726.48	1.71	-0.82	0.613
21.00	-45.92	-40.32	0.00	-3,946.54	0.00	3,946.54	4,783.57	2,391.78	9,364.44	4,689.18	1.89	-0.86	0.611
22.00	-45.53	-40.27	0.00	-3,906.22	0.00	3,906.22	4,767.74	2,383.87	9,290.12	4,651.96	2.08	-0.90	0.609
23.00	-45.15	-40.22	0.00	-3,865.95	0.00	3,865.95	4,751.85	2,375.92	9,215.98	4,614.84	2.27	-0.95	0.606
24.00	-44.76	-40.16	0.00	-3,825.74	0.00	3,825.74	4,735.90	2,367.95	9,142.01	4,577.80	2.47	-0.99	0.604
25.00	-44.37	-40.11	0.00	-3,785.57	0.00	3,785.57	4,719.90	2,359.95	9,068.23	4,540.86	2.69	-1.03	0.601
26.00	-43.99	-40.06	0.00	-3,745.46	0.00	3,745.46	4,703.84	2,351.92	8,994.63	4,504.00	2.91	-1.07	0.599
27.00	-43.61	-40.01	0.00	-3,705.40	0.00	3,705.40	4,687.72	2,343.86	8,921.22	4,467.24	3.14	-1.12	0.596
28.00	-43.23	-39.96	0.00	-3,665.39	0.00	3,665.39	4,671.55	2,335.77	8,847.98	4,430.57	3.38	-1.16	0.593
29.00	-42.84	-39.91	0.00	-3,625.43	0.00	3,625.43	4,655.31	2,327.66	8,774.94	4,393.99	3.62	-1.20	0.591
30.00	-42.46	-39.83	0.00	-3,585.52	0.00	3,585.52	4,639.03	2,319.51	8,702.08	4,357.51	3.88	-1.24	0.588
31.00	-42.08	-39.77	0.00	-3,545.69	0.00	3,545.69	4,622.68	2,311.34	8,629.41	4,321.12	4.14	-1.29	0.586
32.00	-41.70	-39.72	0.00	-3,505.92	0.00	3,505.92	4,606.28	2,303.14	8,556.93	4,284.83	4.42	-1.33	0.583
33.00	-41.32	-39.67	0.00	-3,466.20	0.00	3,466.20	4,589.82	2,294.91	8,484.65	4,248.63	4.70	-1.37	0.580
34.00	-40.95	-39.61	0.00	-3,426.53	0.00	3,426.53	4,573.30	2,286.65	8,412.56	4,212.53	4.99	-1.41	0.577
35.00	-40.57	-39.56	0.00	-3,386.92	0.00	3,386.92	4,556.73	2,278.36	8,340.67	4,176.53	5.30	-1.46	0.574
36.00	-40.20	-39.50	0.00	-3,347.36	0.00	3,347.36	4,540.10	2,270.05	8,268.97	4,140.63	5.61	-1.50	0.572
37.00	-39.82	-39.44	0.00	-3,307.86	0.00	3,307.86	4,523.41	2,261.70	8,197.47	4,104.83	5.92	-1.54	0.569
38.00	-39.45	-39.39	0.00	-3,268.42	0.00	3,268.42	4,506.66	2,253.33	8,126.17	4,069.13	6.25	-1.59	0.566
39.00	-39.08	-39.33	0.00	-3,229.04	0.00	3,229.04	4,489.86	2,244.93	8,055.08	4,033.53	6.59	-1.63	0.563
40.00	-38.71	-39.27	0.00	-3,189.71	0.00	3,189.71	4,473.00	2,236.50	7,984.18	3,998.03	6.94	-1.67	0.560
41.00	-38.34	-39.21	0.00	-3,150.44	0.00	3,150.44	4,456.09	2,228.04	7,913.50	3,962.63	7.29	-1.72	0.557
42.00	-37.98	-39.15	0.00	-3,111.23	0.00	3,111.23	4,439.11	2,219.56	7,843.02	3,927.34	7.66	-1.76	0.553
42.96	-37.64	-39.11	0.00	-3,073.78	0.00	3,073.78	4,422.82	2,211.41	7,775.79	3,893.68	8.01	-1.80	0.550
43.00	-37.60	-39.09	0.00	-3,072.08	0.00	3,072.08	4,422.08	2,211.04	7,772.74	3,892.15	8.03	-1.80	0.545
44.00	-37.08	-39.02	0.00	-3,033.00	0.00	3,033.00	4,400.67	2,200.33	7,695.11	3,853.28	8.41	-1.85	0.543
45.00	-36.56	-38.95	0.00	-2,993.98	0.00	2,993.98	4,378.03	2,189.01	7,615.75	3,813.53	8.80	-1.89	0.540
46.00	-36.04	-38.85	0.00	-2,955.03	0.00	2,955.03	4,355.39	2,177.70	7,536.79	3,773.99	9.20	-1.93	0.537
47.00	-35.52	-38.68	0.00	-2,916.19	0.00	2,916.19	4,332.75	2,166.38	7,458.24	3,734.66	9.61	-1.97	0.535
48.00	-35.01	-38.51	0.00	-2,877.51	0.00	2,877.51	4,310.11	2,155.06	7,380.10	3,695.54	10.03	-2.02	0.532
49.00	-34.51	-38.40	0.00	-2,839.00	0.00	2,839.00	4,287.47	2,143.74	7,302.38	3,656.62	10.46	-2.06	0.529

Load Case: 0.9D + 1.6W — 93 mph with No Ice (Reduced DL) — 35 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 0.90
Wind Load Factor : 1.60

Wind Importance Factor : 1.15

49.04	-34.48	-38.37	0.00	-2,837.47	0.00	2,837.47	3,604.17	1,802.08	6,267.69	3,138.50	10.48	-2.06	0.597
50.00	-34.15	-38.27	0.00	-2,800.63	0.00	2,800.63	3,591.50	1,795.75	6,214.33	3,111.78	10.90	-2.10	0.593
51.00	-33.82	-38.11	0.00	-2,762.36	0.00	2,762.36	3,578.26	1,789.13	6,158.90	3,084.03	11.34	-2.15	0.588
52.00	-33.49	-37.95	0.00	-2,724.25	0.00	2,724.25	3,564.96	1,782.48	6,103.60	3,056.34	11.80	-2.19	0.584
53.00	-33.15	-37.78	0.00	-2,686.30	0.00	2,686.30	3,551.60	1,775.80	6,048.46	3,028.72	12.26	-2.24	0.580
54.00	-32.82	-37.62	0.00	-2,648.51	0.00	2,648.51	3,538.18	1,769.09	5,993.45	3,001.18	12.74	-2.29	0.576
55.00	-32.49	-37.46	0.00	-2,610.90	0.00	2,610.90	3,524.70	1,762.35	5,938.60	2,973.71	13.22	-2.33	0.571
56.00	-32.17	-37.29	0.00	-2,573.44	0.00	2,573.44	3,511.17	1,755.59	5,883.90	2,946.32	13.71	-2.38	0.567
57.00	-31.84	-37.12	0.00	-2,536.15	0.00	2,536.15	3,497.59	1,748.79	5,829.34	2,919.00	14.22	-2.42	0.563
58.00	-31.51	-36.96	0.00	-2,499.03	0.00	2,499.03	3,483.94	1,741.97	5,774.94	2,891.76	14.73	-2.47	0.558
59.00	-31.19	-36.79	0.00	-2,462.07	0.00	2,462.07	3,470.24	1,735.12	5,720.69	2,864.60	15.25	-2.51	0.554
60.00	-30.86	-36.62	0.00	-2,425.28	0.00	2,425.28	3,456.48	1,728.24	5,666.60	2,837.51	15.78	-2.56	0.549
61.00	-30.54	-36.46	0.00	-2,388.66	0.00	2,388.66	3,442.66	1,721.33	5,612.67	2,810.51	16.32	-2.60	0.545
62.00	-30.22	-36.29	0.00	-2,352.20	0.00	2,352.20	3,428.79	1,714.39	5,558.89	2,783.58	16.87	-2.65	0.540
63.00	-29.90	-36.12	0.00	-2,315.91	0.00	2,315.91	3,414.86	1,707.43	5,505.28	2,756.73	17.43	-2.69	0.536
64.00	-29.58	-35.95	0.00	-2,279.80	0.00	2,279.80	3,400.87	1,700.44	5,451.82	2,729.96	18.00	-2.74	0.531
65.00	-29.26	-35.78	0.00	-2,243.85	0.00	2,243.85	3,386.83	1,693.41	5,398.53	2,703.28	18.58	-2.78	0.526
66.00	-28.94	-35.61	0.00	-2,208.07	0.00	2,208.07	3,372.72	1,686.36	5,345.41	2,676.68	19.17	-2.83	0.522
67.00	-28.63	-35.44	0.00	-2,172.46	0.00	2,172.46	3,358.57	1,679.28	5,292.45	2,650.16	19.77	-2.87	0.517
68.00	-28.31	-35.27	0.00	-2,137.02	0.00	2,137.02	3,344.35	1,672.18	5,239.65	2,623.72	20.37	-2.92	0.512
69.00	-28.00	-35.10	0.00	-2,101.75	0.00	2,101.75	3,330.08	1,665.04	5,187.03	2,597.37	20.99	-2.96	0.507
70.00	-27.69	-34.93	0.00	-2,066.65	0.00	2,066.65	3,315.75	1,657.87	5,134.58	2,571.11	21.61	-3.01	0.503
71.00	-27.38	-34.75	0.00	-2,031.73	0.00	2,031.73	3,301.36	1,650.68	5,082.30	2,544.93	22.25	-3.05	0.498
72.00	-27.06	-34.58	0.00	-1,996.97	0.00	1,996.97	3,286.92	1,643.46	5,030.20	2,518.84	22.89	-3.10	0.493
73.00	-26.76	-34.41	0.00	-1,962.39	0.00	1,962.39	3,272.42	1,636.21	4,978.27	2,492.84	23.55	-3.14	0.488
74.00	-26.45	-34.24	0.00	-1,927.98	0.00	1,927.98	3,257.86	1,628.93	4,926.52	2,466.92	24.21	-3.18	0.483
75.00	-26.14	-34.07	0.00	-1,893.74	0.00	1,893.74	3,242.30	1,621.15	4,873.54	2,440.39	24.88	-3.23	0.478
76.00	-25.84	-33.89	0.00	-1,859.68	0.00	1,859.68	3,222.90	1,611.45	4,815.08	2,411.12	25.56	-3.27	0.474
77.00	-25.53	-33.72	0.00	-1,825.79	0.00	1,825.79	3,203.49	1,601.75	4,756.98	2,382.03	26.25	-3.32	0.469
78.00	-25.23	-33.55	0.00	-1,792.07	0.00	1,792.07	3,184.09	1,592.04	4,699.23	2,353.11	26.95	-3.36	0.465
79.00	-24.92	-33.37	0.00	-1,758.52	0.00	1,758.52	3,164.68	1,582.34	4,641.84	2,324.37	27.66	-3.40	0.460
80.00	-24.49	-31.32	0.00	-1,725.16	0.00	1,725.16	3,145.28	1,572.64	4,584.79	2,295.80	28.38	-3.45	0.456
81.00	-24.19	-31.15	0.00	-1,693.83	0.00	1,693.83	3,125.87	1,562.94	4,528.10	2,267.42	29.11	-3.49	0.452
82.00	-23.89	-30.98	0.00	-1,662.68	0.00	1,662.68	3,106.47	1,553.24	4,471.77	2,239.21	29.84	-3.53	0.447
83.00	-23.60	-30.80	0.00	-1,631.71	0.00	1,631.71	3,087.07	1,543.53	4,415.78	2,211.17	30.58	-3.57	0.443
84.00	-23.30	-30.63	0.00	-1,600.90	0.00	1,600.90	3,067.66	1,533.83	4,360.15	2,183.32	31.34	-3.62	0.439
85.00	-23.01	-30.45	0.00	-1,570.28	0.00	1,570.28	3,048.26	1,524.13	4,304.87	2,155.63	32.10	-3.66	0.434
86.00	-22.72	-30.28	0.00	-1,539.82	0.00	1,539.82	3,028.85	1,514.43	4,249.94	2,128.13	32.87	-3.70	0.430
87.00	-22.43	-30.13	0.00	-1,509.55	0.00	1,509.55	3,009.45	1,504.72	4,195.37	2,100.80	33.65	-3.74	0.426
87.54	-22.27	-30.04	0.00	-1,493.28	0.00	1,493.28	2,998.97	1,499.48	4,166.05	2,086.12	34.08	-3.77	0.423
88.00	-22.09	-29.92	0.00	-1,479.45	0.00	1,479.45	2,990.04	1,495.02	4,141.15	2,073.65	34.44	-3.79	0.416
89.00	-21.69	-29.74	0.00	-1,449.53	0.00	1,449.53	2,970.64	1,485.32	4,087.28	2,046.68	35.24	-3.83	0.411
90.00	-21.30	-29.55	0.00	-1,419.79	0.00	1,419.79	2,951.23	1,475.62	4,033.76	2,019.88	36.04	-3.87	0.406
91.00	-20.91	-29.37	0.00	-1,390.24	0.00	1,390.24	2,931.83	1,465.91	3,980.60	1,993.26	36.86	-3.91	0.402
92.00	-20.53	-29.22	0.00	-1,360.87	0.00	1,360.87	2,912.42	1,456.21	3,927.79	1,966.81	37.68	-3.95	0.397
92.46	-20.35	-29.13	0.00	-1,347.53	0.00	1,347.53	2,412.07	1,206.04	3,317.78	1,661.36	38.06	-3.97	0.440
93.00	-20.21	-29.01	0.00	-1,331.70	0.00	1,331.70	2,405.85	1,202.93	3,297.34	1,651.12	38.51	-3.99	0.437
94.00	-19.94	-28.83	0.00	-1,302.69	0.00	1,302.69	2,394.36	1,197.18	3,259.83	1,632.34	39.35	-4.03	0.431
95.00	-19.67	-28.65	0.00	-1,273.86	0.00	1,273.86	2,382.81	1,191.41	3,222.46	1,613.62	40.20	-4.08	0.424
96.00	-19.02	-27.84	0.00	-1,245.21	0.00	1,245.21	2,371.21	1,185.60	3,185.22	1,594.98	41.06	-4.12	0.418
97.00	-18.75	-27.67	0.00	-1,217.37	0.00	1,217.37	2,359.55	1,179.77	3,148.11	1,576.40	41.93	-4.16	0.411
98.00	-18.49	-27.49	0.00	-1,189.70	0.00	1,189.70	2,347.83	1,173.91	3,111.14	1,557.88	42.80	-4.20	0.405
99.00	-18.23	-27.32	0.00	-1,162.21	0.00	1,162.21	2,336.05	1,168.03	3,074.31	1,539.44	43.69	-4.24	0.399
100.00	-17.98	-27.14	0.00	-1,134.89	0.00	1,134.89	2,324.22	1,162.11	3,037.61	1,521.06	44.58	-4.28	0.392
101.00	-17.72	-26.97	0.00	-1,107.75	0.00	1,107.75	2,312.33	1,156.16	3,001.06	1,502.76	45.48	-4.33	0.386
102.00	-17.46	-26.79	0.00	-1,080.79	0.00	1,080.79	2,300.38	1,150.19	2,964.65	1,484.53	46.39	-4.37	0.379
103.00	-17.20	-26.61	0.00	-1,054.00	0.00	1,054.00	2,288.38	1,144.19	2,928.39	1,466.37	47.31	-4.41	0.373

Load Case: 0.9D + 1.6W — 93 mph with No Ice (Reduced DL) — 35 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 0.90
Wind Load Factor : 1.60
Wind Importance Factor : 1.15

104.00	-16.95	-26.47	0.00	-1,027.38	0.00	1,027.38	2,276.31	1,138.16	2,892.27	1,448.28	48.24	-4.45	0.366
104.50	-16.82	-26.38	0.00	-1,014.15	0.00	1,014.15	2,270.26	1,135.13	2,874.26	1,439.27	48.70	-4.47	0.363
104.50	-16.82	-26.38	0.00	-1,014.15	0.00	1,014.15	2,270.26	1,135.13	2,874.26	1,439.27	48.70	-4.47	0.713
105.00	-16.72	-26.27	0.00	-1,000.96	0.00	1,000.96	2,264.20	1,132.10	2,856.29	1,430.27	49.17	-4.49	0.708
106.00	-16.51	-26.11	0.00	-974.68	0.00	974.68	2,251.29	1,125.65	2,819.56	1,411.88	50.12	-4.56	0.698
107.00	-16.30	-25.95	0.00	-948.57	0.00	948.57	2,235.12	1,117.56	2,779.00	1,391.56	51.08	-4.64	0.689
108.00	-16.09	-25.80	0.00	-922.62	0.00	922.62	2,218.95	1,109.48	2,738.73	1,371.40	52.06	-4.72	0.681
109.00	-15.89	-25.64	0.00	-896.82	0.00	896.82	2,202.78	1,101.39	2,698.75	1,351.38	53.06	-4.79	0.671
110.00	-15.68	-25.48	0.00	-871.19	0.00	871.19	2,186.61	1,093.30	2,659.07	1,331.51	54.07	-4.87	0.662
111.00	-15.45	-24.86	0.00	-845.71	0.00	845.71	2,170.44	1,085.22	2,619.69	1,311.79	55.09	-4.94	0.652
112.00	-15.25	-24.70	0.00	-820.85	0.00	820.85	2,154.27	1,077.13	2,580.59	1,292.21	56.14	-5.01	0.643
113.00	-13.76	-22.34	0.00	-796.16	0.00	796.16	2,138.10	1,069.05	2,541.79	1,272.79	57.19	-5.09	0.632
114.00	-13.62	-22.19	0.00	-773.81	0.00	773.81	2,121.93	1,060.96	2,503.29	1,253.50	58.27	-5.16	0.624
115.00	-13.47	-22.03	0.00	-751.63	0.00	751.63	2,105.76	1,052.88	2,465.08	1,234.37	59.35	-5.23	0.616
116.00	-13.33	-21.88	0.00	-729.59	0.00	729.59	2,089.59	1,044.79	2,427.16	1,215.38	60.46	-5.31	0.607
117.00	-13.18	-21.72	0.00	-707.72	0.00	707.72	2,073.42	1,036.71	2,389.54	1,196.54	61.57	-5.38	0.598
118.00	-13.04	-21.57	0.00	-686.00	0.00	686.00	2,057.25	1,028.62	2,352.21	1,177.85	62.71	-5.45	0.589
119.00	-12.90	-21.41	0.00	-664.43	0.00	664.43	2,041.07	1,020.54	2,315.17	1,159.31	63.85	-5.52	0.580
120.00	-12.76	-21.26	0.00	-643.02	0.00	643.02	2,024.90	1,012.45	2,278.43	1,140.91	65.02	-5.59	0.570
121.00	-12.62	-21.10	0.00	-621.77	0.00	621.77	2,008.73	1,004.37	2,241.98	1,122.66	66.19	-5.66	0.561
122.00	-11.25	-17.29	0.00	-600.67	0.00	600.67	1,992.56	996.28	2,205.83	1,104.55	67.38	-5.73	0.550
123.00	-11.12	-17.23	0.00	-583.38	0.00	583.38	1,976.39	988.20	2,169.97	1,086.60	68.59	-5.79	0.543
124.00	-10.99	-17.16	0.00	-566.15	0.00	566.15	1,960.22	980.11	2,134.40	1,068.79	69.81	-5.86	0.536
125.00	-10.86	-17.10	0.00	-548.99	0.00	548.99	1,944.05	972.03	2,099.13	1,051.12	71.04	-5.93	0.528
126.00	-10.73	-17.03	0.00	-531.89	0.00	531.89	1,927.88	963.94	2,064.15	1,033.61	72.29	-6.00	0.520
127.00	-10.60	-16.97	0.00	-514.85	0.00	514.85	1,911.71	955.86	2,029.46	1,016.24	73.55	-6.06	0.512
128.00	-10.47	-16.90	0.00	-497.89	0.00	497.89	1,895.54	947.77	1,995.07	999.02	74.82	-6.13	0.504
129.00	-10.35	-16.84	0.00	-480.98	0.00	480.98	1,879.37	939.68	1,960.98	981.95	76.11	-6.19	0.496
130.00	-10.22	-16.78	0.00	-464.14	0.00	464.14	1,863.20	931.60	1,927.17	965.02	77.41	-6.26	0.487
131.00	-10.10	-16.71	0.00	-447.37	0.00	447.37	1,847.03	923.51	1,893.66	948.24	78.73	-6.32	0.478
132.00	-9.98	-16.67	0.00	-430.65	0.00	430.65	1,830.86	915.43	1,860.45	931.61	80.06	-6.39	0.468
132.12	-9.96	-16.64	0.00	-428.66	0.00	428.66	1,828.92	914.46	1,856.49	929.63	80.22	-6.39	0.467
133.00	-9.81	-16.58	0.00	-414.01	0.00	414.01	1,814.69	907.34	1,827.53	915.12	81.40	-6.45	0.458
134.00	-9.65	-16.51	0.00	-397.43	0.00	397.43	1,798.52	899.26	1,794.90	898.78	82.75	-6.51	0.448
135.00	-9.48	-16.44	0.00	-380.92	0.00	380.92	1,782.35	891.17	1,762.57	882.59	84.12	-6.57	0.437
135.87	-9.34	-16.40	0.00	-366.62	0.00	366.62	993.95	496.97	1,000.68	501.09	85.32	-6.62	0.742
136.00	-9.32	-16.37	0.00	-364.49	0.00	364.49	993.20	496.60	998.76	500.12	85.50	-6.63	0.739
137.00	-6.99	-12.12	0.00	-348.12	0.00	348.12	987.45	493.72	984.00	492.73	86.90	-6.72	0.714
138.00	-6.90	-12.06	0.00	-335.99	0.00	335.99	981.64	490.82	969.28	485.36	88.31	-6.81	0.700
139.00	-6.81	-12.00	0.00	-323.93	0.00	323.93	975.77	487.88	954.62	478.02	89.74	-6.90	0.685
140.00	-6.34	-11.34	0.00	-311.93	0.00	311.93	969.84	484.92	940.01	470.70	91.20	-6.99	0.670
141.00	-6.26	-11.28	0.00	-300.59	0.00	300.59	963.86	481.93	925.45	463.41	92.67	-7.08	0.656
142.00	-6.17	-11.22	0.00	-289.31	0.00	289.31	957.82	478.91	910.95	456.15	94.16	-7.17	0.641
143.00	-6.09	-11.16	0.00	-278.09	0.00	278.09	951.72	475.86	896.50	448.92	95.66	-7.25	0.626
144.00	-6.01	-11.10	0.00	-266.93	0.00	266.93	945.56	472.78	882.11	441.71	97.19	-7.34	0.611
145.00	-5.92	-11.04	0.00	-255.83	0.00	255.83	939.35	469.68	867.78	434.53	98.73	-7.42	0.596
146.00	-5.43	-9.19	0.00	-244.29	0.00	244.29	933.08	466.54	853.51	427.39	100.29	-7.51	0.578
147.00	-5.36	-9.14	0.00	-235.10	0.00	235.10	926.76	463.38	839.30	420.27	101.87	-7.59	0.566
148.00	-5.28	-9.08	0.00	-225.96	0.00	225.96	920.37	460.19	825.16	413.19	103.46	-7.67	0.553
149.00	-5.21	-9.02	0.00	-216.89	0.00	216.89	913.93	456.97	811.08	406.14	105.07	-7.75	0.540
150.00	-5.14	-8.96	0.00	-207.87	0.00	207.87	907.44	453.72	797.07	399.13	106.70	-7.83	0.527
151.00	-5.07	-8.91	0.00	-198.90	0.00	198.90	900.88	450.44	783.12	392.14	108.34	-7.91	0.513
152.00	-4.89	-8.61	0.00	-190.00	0.00	190.00	894.27	447.14	769.25	385.20	110.00	-7.99	0.499
153.00	-4.82	-8.56	0.00	-181.39	0.00	181.39	887.60	443.80	755.45	378.29	111.68	-8.06	0.485
154.00	-4.76	-8.50	0.00	-172.83	0.00	172.83	880.88	440.44	741.72	371.41	113.37	-8.14	0.471
155.00	-4.69	-8.44	0.00	-164.33	0.00	164.33	874.09	437.05	728.06	364.57	115.08	-8.21	0.456
156.00	-4.62	-8.39	0.00	-155.89	0.00	155.89	867.26	433.63	714.49	357.77	116.80	-8.28	0.441

Load Case: 0.9D + 1.6W 93 mph with No Ice (Reduced DL) 35 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 0.90
Wind Load Factor : 1.60

Wind Importance Factor : 1.15

157.00	-4.56	-8.33	0.00	-147.50	0.00	147.50	860.36	430.18	700.99	351.01	118.54	-8.36	0.426
158.00	-4.49	-8.28	0.00	-139.17	0.00	139.17	853.41	426.70	687.57	344.29	120.29	-8.43	0.410
159.00	-4.43	-8.22	0.00	-130.89	0.00	130.89	846.39	423.20	674.23	337.61	122.05	-8.49	0.393
160.00	-4.37	-8.14	0.00	-122.67	0.00	122.67	839.33	419.66	660.97	330.98	123.83	-8.56	0.376
161.00	-4.32	-8.03	0.00	-114.52	0.00	114.52	832.20	416.10	647.80	324.38	125.63	-8.62	0.359
162.00	-4.26	-7.92	0.00	-106.49	0.00	106.49	825.02	412.51	634.71	317.83	127.43	-8.68	0.341
163.00	-3.34	-5.94	0.00	-98.58	0.00	98.58	817.78	408.89	621.71	311.32	129.25	-8.74	0.321
164.00	-3.29	-5.89	0.00	-92.63	0.00	92.63	810.15	405.07	608.54	304.72	131.08	-8.80	0.308
165.00	-3.24	-5.84	0.00	-86.74	0.00	86.74	800.44	400.22	593.98	297.43	132.92	-8.85	0.296
166.00	-3.19	-5.79	0.00	-80.91	0.00	80.91	790.74	395.37	579.60	290.23	134.78	-8.91	0.283
167.00	-3.15	-5.73	0.00	-75.12	0.00	75.12	781.04	390.52	565.39	283.11	136.64	-8.96	0.270
168.00	-3.10	-5.68	0.00	-69.39	0.00	69.39	771.34	385.67	551.35	276.09	138.51	-9.01	0.256
169.00	-3.06	-5.63	0.00	-63.70	0.00	63.70	761.63	380.82	537.50	269.15	140.40	-9.06	0.241
170.00	-3.01	-5.58	0.00	-58.07	0.00	58.07	751.93	375.97	523.82	262.30	142.29	-9.10	0.226
171.00	-2.97	-5.53	0.00	-52.50	0.00	52.50	742.23	371.11	510.32	255.54	144.19	-9.14	0.210
172.00	-2.92	-5.48	0.00	-46.97	0.00	46.97	732.53	366.26	496.99	248.86	146.11	-9.18	0.193
173.00	-2.88	-5.43	0.00	-41.49	0.00	41.49	722.82	361.41	483.84	242.28	148.03	-9.22	0.175
174.00	-1.71	-3.89	0.00	-36.06	0.00	36.06	713.12	356.56	470.86	235.78	149.95	-9.25	0.155
175.00	-1.67	-3.84	0.00	-32.17	0.00	32.17	703.42	351.71	458.07	229.37	151.88	-9.28	0.143
176.00	-1.63	-3.79	0.00	-28.33	0.00	28.33	693.72	346.86	445.44	223.05	153.82	-9.31	0.129
177.00	-1.59	-3.74	0.00	-24.53	0.00	24.53	684.02	342.01	433.00	216.82	155.77	-9.34	0.116
178.00	-1.56	-3.70	0.00	-20.79	0.00	20.79	674.31	337.16	420.73	210.68	157.72	-9.36	0.101
179.00	-1.52	-3.65	0.00	-17.09	0.00	17.09	664.61	332.31	408.64	204.62	159.67	-9.38	0.086
180.00	0.00	-3.35	0.00	-13.44	0.00	13.44	654.91	327.45	396.72	198.65	161.63	-9.40	0.068

Load Case: 1.2D + 1.0Di + 1.0Wi 40 mph with 1.00 in Radial Ice 35 Iterations

Gust Response Factor : 1.10 Ice Dead Load Factor : 1.00 Wind Importance Factor : 1.00
Dead Load Factor : 1.20 Ice Importance Factor : 1.25
Wind Load Factor : 1.00

Shaft Segment Forces (Factored)

Seg Top Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf		Ice Thick (in)	Tributary (ft)	Ap (sf)	EPAs (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.70	2.724	2.996	0.000	1.200		0.000	0.00	0.000	0.00	8.5	0.0	0.0
1.00		1.00	0.70	2.724	2.996	0.000	1.200	*	1.644	1.00	4.728	5.67	17.0	111.6	407.6
2.00		1.00	0.70	2.724	2.996	0.000	1.200	*	1.835	1.00	4.742	5.69	17.0	124.5	419.2
3.00		1.00	0.70	2.724	2.996	0.000	1.200	*	1.931	1.00	4.739	5.69	17.0	130.7	424.2
4.00		1.00	0.70	2.724	2.996	0.000	1.200	*	1.998	1.00	4.732	5.68	17.0	134.8	427.0
5.00		1.00	0.70	2.724	2.996	0.000	1.200	*	2.048	1.00	4.721	5.67	17.0	137.8	428.8
6.00		1.00	0.70	2.724	2.996	0.000	1.200	*	2.090	1.00	4.710	5.65	16.9	140.1	429.9
7.00		1.00	0.70	2.724	2.996	0.000	1.200	*	2.125	1.00	4.697	5.64	16.9	142.0	430.5
8.00		1.00	0.70	2.724	2.996	0.000	1.200	*	2.156	1.00	4.684	5.62	16.8	143.5	430.8
9.00		1.00	0.70	2.724	2.996	0.000	1.200	*	2.183	1.00	4.670	5.60	16.8	144.8	430.8
10.00		1.00	0.70	2.724	2.996	0.000	1.200	*	2.207	1.00	4.655	5.59	16.7	145.9	430.7
11.00		1.00	0.70	2.724	2.996	0.000	1.200	*	2.230	1.00	4.640	5.57	16.7	146.8	430.3
12.00		1.00	0.70	2.724	2.996	0.000	1.200	*	2.250	1.00	4.625	5.55	16.6	147.6	429.9
13.00		1.00	0.70	2.724	2.996	0.000	1.200	*	2.269	1.00	4.610	5.53	16.5	148.2	429.3
14.00		1.00	0.70	2.724	2.996	0.000	1.200	*	2.286	1.00	4.594	5.51	16.5	148.8	428.6
15.00		1.00	0.70	2.724	2.996	0.000	1.200	*	2.303	1.00	4.578	5.49	16.4	149.3	427.9
16.00		1.00	0.70	2.724	2.996	0.000	1.200	*	2.318	1.00	4.562	5.47	16.4	149.7	427.0
17.00		1.00	0.70	2.724	2.996	0.000	1.200	*	2.333	1.00	4.546	5.46	16.3	150.0	426.1
18.00		1.00	0.70	2.724	2.996	0.000	1.200	*	2.346	1.00	4.530	5.44	16.3	150.3	425.1
19.00		1.00	0.70	2.724	2.996	0.000	1.200	*	2.359	1.00	4.513	5.42	16.2	150.5	424.1
20.00		1.00	0.70	2.724	2.996	0.000	1.200	*	2.372	1.00	4.497	5.40	16.1	150.7	423.1
21.00		1.00	0.70	2.724	2.996	0.000	1.200	*	2.384	1.00	4.480	5.38	16.1	150.8	421.9
22.00		1.00	0.70	2.724	2.996	0.000	1.200	*	2.395	1.00	4.464	5.36	16.0	150.9	420.8
23.00		1.00	0.70	2.724	2.996	0.000	1.200	*	2.406	1.00	4.447	5.34	16.0	151.0	419.6
24.00		1.00	0.70	2.724	2.996	0.000	1.200	*	2.417	1.00	4.430	5.32	15.9	151.0	418.4
25.00		1.00	0.70	2.724	2.996	0.000	1.200	*	2.427	1.00	4.413	5.30	15.8	151.0	417.1
26.00		1.00	0.70	2.724	2.996	0.000	1.200	*	2.436	1.00	4.396	5.28	15.8	151.0	415.9
27.00		1.00	0.70	2.724	2.996	0.000	1.200	*	2.446	1.00	4.379	5.26	15.7	150.9	414.6
28.00		1.00	0.70	2.724	2.996	0.000	1.200	*	2.455	1.00	4.362	5.23	15.7	150.8	413.2
29.00		1.00	0.70	2.724	2.996	0.000	1.200	*	2.464	1.00	4.345	5.21	15.6	150.7	411.9
30.00	Appertunance(s)	1.00	0.70	2.724	2.996	0.000	1.200	*	2.472	1.00	4.328	5.19	15.6	150.6	410.5
31.00		1.00	0.70	2.739	3.013	0.000	1.200	*	2.480	1.00	4.311	5.17	15.6	150.4	409.1
32.00		1.00	0.71	2.764	3.041	0.000	1.200	*	2.488	1.00	4.293	5.15	15.7	150.3	407.7
33.00		1.00	0.71	2.789	3.068	0.000	1.200	*	2.496	1.00	4.276	5.13	15.8	150.1	406.2
34.00		1.00	0.72	2.813	3.095	0.000	1.200	*	2.504	1.00	4.259	5.11	15.9	149.9	404.8
35.00		1.00	0.72	2.837	3.121	0.000	1.200	*	2.511	1.00	4.242	5.09	15.9	149.6	403.3
36.00		1.00	0.73	2.860	3.147	0.000	1.200	*	2.518	1.00	4.224	5.07	16.0	149.4	401.8
37.00		1.00	0.74	2.883	3.172	0.000	1.200	*	2.525	1.00	4.207	5.05	16.0	149.1	400.3
38.00		1.00	0.74	2.906	3.196	0.000	1.200	*	2.532	1.00	4.189	5.03	16.1	148.9	398.8
39.00		1.00	0.75	2.928	3.220	0.000	1.200	*	2.539	1.00	4.172	5.01	16.1	148.6	397.3
40.00		1.00	0.75	2.949	3.244	0.000	1.200	*	2.545	1.00	4.154	4.99	16.2	148.3	395.7
41.00		1.00	0.76	2.970	3.267	0.000	1.200	*	2.552	1.00	4.137	4.96	16.2	148.0	394.2
42.00		1.00	0.76	2.991	3.290	0.000	1.200	*	2.558	1.00	4.119	4.94	15.9	147.6	392.6
42.96	Bot - Section 2	1.00	0.77	3.011	3.312	0.000	1.200	*	2.564	0.96	3.924	4.71	8.2	140.9	374.1
43.00		1.00	0.77	3.021	3.323	0.000	1.200	*	2.567	0.04	0.181	0.22	8.7	6.5	26.3
44.00		1.00	0.77	3.031	3.335	0.000	1.200	*	2.570	1.00	4.148	4.98	16.6	149.4	603.7
45.00		1.00	0.78	3.051	3.356	0.000	1.200	*	2.576	1.00	4.130	4.96	16.7	149.0	601.0
46.00		1.00	0.78	3.071	3.378	0.000	1.200	*	2.582	1.00	4.112	4.93	16.7	148.7	598.3
47.00		1.00	0.79	3.090	3.399	0.000	1.200	*	2.587	1.00	4.095	4.91	16.7	148.3	595.6
48.00		1.00	0.79	3.109	3.419	0.000	1.200	*	2.593	1.00	4.077	4.89	16.7	147.9	593.0
49.00		1.00	0.80	3.127	3.440	0.000	1.200	*	2.598	1.00	4.060	4.87	8.7	147.5	590.3

Load Case: 1.2D + 1.0Di + 1.0Wi 40 mph with 1.00 in Radial Ice 35 Iterations

Gust Response Factor : 1.10 Ice Dead Load Factor : 1.00 Wind Importance Factor : 1.00
Dead Load Factor : 1.20 Ice Importance Factor : 1.25
Wind Load Factor : 1.00

49.04	Top - Section 1	1.00	0.80	3.137	3.450	0.000	1.200 *	2.601	0.04	0.162	0.19	8.4	5.9	23.5
50.00		1.00	0.80	3.146	3.460	0.000	1.200 *	2.604	0.96	3.880	4.66	16.5	141.3	338.4
51.00		1.00	0.81	3.164	3.480	0.000	1.200 *	2.609	1.00	4.024	4.83	16.8	146.7	351.1
52.00		1.00	0.81	3.181	3.499	0.000	1.200 *	2.614	1.00	4.006	4.81	16.8	146.3	349.6
53.00		1.00	0.82	3.199	3.519	0.000	1.200 *	2.619	1.00	3.989	4.79	16.8	145.9	348.1
54.00		1.00	0.82	3.216	3.538	0.000	1.200 *	2.624	1.00	3.971	4.77	16.9	145.5	346.6
55.00		1.00	0.83	3.233	3.556	0.000	1.200 *	2.629	1.00	3.953	4.74	16.9	145.0	345.1
56.00		1.00	0.83	3.250	3.575	0.000	1.200 *	2.633	1.00	3.935	4.72	16.9	144.6	343.6
57.00		1.00	0.83	3.267	3.593	0.000	1.200 *	2.638	1.00	3.918	4.70	16.9	144.1	342.1
58.00		1.00	0.84	3.283	3.611	0.000	1.200 *	2.643	1.00	3.900	4.68	16.9	143.7	340.5
59.00		1.00	0.84	3.299	3.629	0.000	1.200 *	2.647	1.00	3.882	4.66	16.9	143.2	339.0
60.00		1.00	0.85	3.315	3.647	0.000	1.200 *	2.652	1.00	3.864	4.64	16.9	142.7	337.5
61.00		1.00	0.85	3.331	3.664	0.000	1.200 *	2.656	1.00	3.846	4.62	16.9	142.3	335.9
62.00		1.00	0.86	3.347	3.681	0.000	1.200 *	2.661	1.00	3.829	4.59	16.9	141.8	334.4
63.00		1.00	0.86	3.362	3.698	0.000	1.200 *	2.665	1.00	3.811	4.57	16.9	141.3	332.8
64.00		1.00	0.86	3.377	3.715	0.000	1.200 *	2.669	1.00	3.793	4.55	16.9	140.8	331.2
65.00		1.00	0.87	3.393	3.732	0.000	1.200 *	2.673	1.00	3.775	4.53	16.9	140.3	329.7
66.00		1.00	0.87	3.408	3.748	0.000	1.200 *	2.677	1.00	3.757	4.51	16.9	139.8	328.1
67.00		1.00	0.88	3.422	3.765	0.000	1.200 *	2.681	1.00	3.739	4.49	16.9	139.3	326.5
68.00		1.00	0.88	3.437	3.781	0.000	1.200 *	2.685	1.00	3.721	4.47	16.9	138.7	324.9
69.00		1.00	0.88	3.451	3.797	0.000	1.200 *	2.689	1.00	3.703	4.44	16.9	138.2	323.4
70.00		1.00	0.89	3.466	3.812	0.000	1.200 *	2.693	1.00	3.685	4.42	16.9	137.7	321.8
71.00		1.00	0.89	3.480	3.828	0.000	1.200 *	2.697	1.00	3.668	4.40	16.8	137.2	320.2
72.00		1.00	0.89	3.494	3.843	0.000	1.200 *	2.701	1.00	3.650	4.38	16.8	136.6	318.6
73.00		1.00	0.90	3.508	3.859	0.000	1.200 *	2.705	1.00	3.632	4.36	16.8	136.1	317.0
74.00		1.00	0.90	3.522	3.874	0.000	1.200 *	2.708	1.00	3.614	4.34	16.8	135.5	315.3
75.00		1.00	0.90	3.535	3.889	0.000	1.200 *	2.712	1.00	3.596	4.31	16.8	135.0	313.7
76.00		1.00	0.91	3.549	3.904	0.000	1.200 *	2.716	1.00	3.578	4.29	16.7	134.4	312.1
77.00		1.00	0.91	3.562	3.918	0.000	1.200 *	2.719	1.00	3.560	4.27	16.7	133.9	310.5
78.00		1.00	0.91	3.575	3.933	0.000	1.200 *	2.723	1.00	3.542	4.25	16.7	133.3	308.8
79.00	Appertunance(s)	1.00	0.92	3.588	3.947	0.000	1.200 *	2.726	1.00	3.524	4.23	16.7	132.7	307.2
80.00	Appertunance(s)	1.00	0.92	3.601	3.962	0.000	1.200 *	2.730	1.00	3.506	4.21	16.7	132.2	305.6
81.00		1.00	0.92	3.614	3.976	0.000	1.200 *	2.733	1.00	3.488	4.19	16.6	131.6	303.9
82.00		1.00	0.93	3.627	3.990	0.000	1.200 *	2.737	1.00	3.470	4.16	16.6	131.0	302.3
83.00		1.00	0.93	3.640	4.004	0.000	1.200 *	2.740	1.00	3.452	4.14	16.6	130.4	300.6
84.00		1.00	0.93	3.652	4.018	0.000	1.200 *	2.743	1.00	3.434	4.12	16.5	129.9	299.0
85.00		1.00	0.94	3.665	4.031	0.000	1.200 *	2.746	1.00	3.416	4.10	16.5	129.3	297.3
86.00		1.00	0.94	3.677	4.045	0.000	1.200 *	2.750	1.00	3.398	4.08	16.5	128.7	295.7
87.00		1.00	0.94	3.689	4.058	0.000	1.200 *	2.753	1.00	3.380	4.06	12.7	128.1	294.0
87.54	Bot - Section 3	1.00	0.95	3.699	4.069	0.000	1.200 *	2.755	0.54	1.817	2.18	8.3	69.0	158.1
88.00		1.00	0.95	3.705	4.075	0.000	1.200 *	2.757	0.46	1.569	1.88	12.2	59.7	199.8
89.00		1.00	0.95	3.713	4.085	0.000	1.200 *	2.759	1.00	3.396	4.08	16.6	129.0	432.1
90.00		1.00	0.95	3.725	4.098	0.000	1.200 *	2.762	1.00	3.378	4.05	16.6	128.4	429.6
91.00		1.00	0.96	3.737	4.111	0.000	1.200 *	2.765	1.00	3.360	4.03	16.6	127.8	427.0
92.00		1.00	0.96	3.749	4.124	0.000	1.200 *	2.768	1.00	3.342	4.01	12.0	127.2	424.4
92.46	Top - Section 2	1.00	0.96	3.758	4.133	0.000	1.200 *	2.771	0.46	1.520	1.82	8.3	58.0	193.0
93.00		1.00	0.96	3.763	4.140	0.000	1.200 *	2.772	0.54	1.804	2.17	12.7	68.8	142.5
94.00		1.00	0.96	3.772	4.149	0.000	1.200 *	2.774	1.00	3.306	3.97	16.4	126.0	260.8
95.00		1.00	0.97	3.784	4.162	0.000	1.200 *	2.777	1.00	3.288	3.95	16.4	125.4	259.3
96.00	Appertunance(s)	1.00	0.97	3.795	4.175	0.000	1.200 *	2.780	1.00	3.270	3.92	16.4	124.7	257.8
97.00		1.00	0.97	3.806	4.187	0.000	1.200 *	2.783	1.00	3.252	3.90	16.3	124.1	256.3
98.00		1.00	0.98	3.818	4.199	0.000	1.200 *	2.786	1.00	3.234	3.88	16.3	123.5	254.8
99.00		1.00	0.98	3.829	4.212	0.000	1.200 *	2.789	1.00	3.216	3.86	16.2	122.9	253.3
100.0		1.00	0.98	3.840	4.224	0.000	1.200 *	2.792	1.00	3.198	3.84	16.2	122.2	251.7
101.0		1.00	0.99	3.851	4.236	0.000	1.200 *	2.795	1.00	3.180	3.82	16.1	121.6	250.2
102.0		1.00	0.99	3.862	4.248	0.000	1.200 *	2.797	1.00	3.161	3.79	16.1	120.9	248.7
103.0		1.00	0.99	3.873	4.260	0.000	1.200 *	2.800	1.00	3.143	3.77	16.0	120.3	247.1

Load Case: 1.2D + 1.0Di + 1.0Wi 40 mph with 1.00 in Radial Ice 35 Iterations

Gust Response Factor : 1.10 Ice Dead Load Factor : 1.00 Wind Importance Factor : 1.00
Dead Load Factor : 1.20 Ice Importance Factor : 1.25
Wind Load Factor : 1.00

104.0		1.00	0.99	3.883	4.272	0.000	1.200	* 2.803	1.00	3.125	3.75	12.0	119.7	245.6
104.5	Reinf. Top	1.00	1.00	3.891	4.281	0.000	1.200	* 2.805	0.50	1.556	1.87	8.0	59.7	122.3
105.0		1.00	1.00	3.897	4.286	0.000	1.200	* 2.806	0.50	1.551	1.86	12.0	59.5	121.9
106.0		1.00	1.00	3.905	4.295	0.000	1.200	* 2.808	1.00	3.089	3.71	15.9	118.4	242.5
107.0		1.00	1.00	3.915	4.307	0.000	1.200	* 2.811	1.00	3.071	3.69	15.8	117.7	241.0
108.0		1.00	1.00	3.926	4.318	0.000	1.200	* 2.813	1.00	3.053	3.66	15.8	117.1	239.5
109.0		1.00	1.01	3.936	4.330	0.000	1.200	* 2.816	1.00	3.035	3.64	15.7	116.4	237.9
110.0		1.00	1.01	3.946	4.341	0.000	1.200	* 2.819	1.00	3.016	3.62	15.7	115.7	236.4
111.0	Appertunance(s)	1.00	1.01	3.957	4.352	0.000	1.200	* 2.821	1.00	2.998	3.60	15.6	115.1	234.8
112.0		1.00	1.01	3.967	4.364	0.000	1.200	* 2.824	1.00	2.980	3.58	15.6	114.4	233.3
113.0	Appertunance(s)	1.00	1.02	3.977	4.375	0.000	1.200	* 2.826	1.00	2.962	3.55	15.5	113.7	231.7
114.0		1.00	1.02	3.987	4.386	0.000	1.200	* 2.829	1.00	2.944	3.53	15.5	113.1	230.1
115.0		1.00	1.02	3.997	4.397	0.000	1.200	* 2.831	1.00	2.926	3.51	15.4	112.4	228.6
116.0		1.00	1.03	4.007	4.408	0.000	1.200	* 2.834	1.00	2.908	3.49	15.3	111.7	227.0
117.0		1.00	1.03	4.017	4.419	0.000	1.200	* 2.836	1.00	2.889	3.47	15.3	111.1	225.5
118.0		1.00	1.03	4.027	4.429	0.000	1.200	* 2.839	1.00	2.871	3.45	15.2	110.4	223.9
119.0		1.00	1.03	4.036	4.440	0.000	1.200	* 2.841	1.00	2.853	3.42	15.2	109.7	222.3
120.0		1.00	1.04	4.046	4.451	0.000	1.200	* 2.843	1.00	2.835	3.40	15.1	109.0	220.8
121.0		1.00	1.04	4.056	4.461	0.000	1.200	* 2.846	1.00	2.817	3.38	15.0	108.3	219.2
122.0	Appertunance(s)	1.00	1.04	4.065	4.472	0.000	1.200	* 2.848	1.00	2.799	3.36	15.0	107.6	217.6
123.0		1.00	1.04	4.075	4.482	0.000	1.200	* 2.850	1.00	2.780	3.34	14.9	107.0	216.0
124.0		1.00	1.05	4.084	4.493	0.000	1.200	* 2.853	1.00	2.762	3.31	14.9	106.3	214.5
125.0		1.00	1.05	4.094	4.503	0.000	1.200	* 2.855	1.00	2.744	3.29	14.8	105.6	212.9
126.0		1.00	1.05	4.103	4.514	0.000	1.200	* 2.857	1.00	2.726	3.27	14.7	104.9	211.3
127.0		1.00	1.05	4.113	4.524	0.000	1.200	* 2.860	1.00	2.708	3.25	14.7	104.2	209.7
128.0		1.00	1.05	4.122	4.534	0.000	1.200	* 2.862	1.00	2.689	3.23	14.6	103.5	208.1
129.0		1.00	1.06	4.131	4.544	0.000	1.200	* 2.864	1.00	2.671	3.21	14.5	102.8	206.5
130.0		1.00	1.06	4.140	4.554	0.000	1.200	* 2.866	1.00	2.653	3.18	14.5	102.1	204.9
131.0		1.00	1.06	4.149	4.564	0.000	1.200	* 2.868	1.00	2.635	3.16	14.4	101.4	203.4
132.0		1.00	1.06	4.158	4.574	0.000	1.200	* 2.871	1.00	2.617	3.14	8.0	100.7	201.8
132.1	Bot - Section 4	1.00	1.07	4.163	4.580	0.000	1.200	* 2.872	0.12	0.312	0.37	7.2	12.1	24.1
133.0		1.00	1.07	4.168	4.585	0.000	1.200	* 2.873	0.88	2.314	2.78	13.6	89.2	231.3
134.0		1.00	1.07	4.176	4.594	0.000	1.200	* 2.875	1.00	2.612	3.13	14.4	100.6	260.7
135.0		1.00	1.07	4.185	4.604	0.000	1.200	* 2.877	1.00	2.594	3.11	13.4	99.9	258.6
135.8	Top - Section 3	1.00	1.07	4.194	4.613	0.000	1.200	* 2.879	0.87	2.241	2.69	7.1	86.4	223.2
136.0		1.00	1.07	4.198	4.618	0.000	1.200	* 2.880	0.13	0.334	0.40	8.0	12.9	20.7
137.0	Appertunance(s)	1.00	1.08	4.203	4.623	0.000	1.200	* 2.881	1.00	2.557	3.07	14.2	98.5	157.7
138.0		1.00	1.08	4.212	4.633	0.000	1.200	* 2.883	1.00	2.539	3.05	14.1	97.8	156.4
139.0		1.00	1.08	4.220	4.642	0.000	1.200	* 2.886	1.00	2.521	3.03	14.0	97.1	155.2
140.0	Appertunance(s)	1.00	1.08	4.229	4.652	0.000	1.200	* 2.888	1.00	2.503	3.00	13.9	96.3	153.9
141.0		1.00	1.08	4.238	4.662	0.000	1.200	* 2.890	1.00	2.484	2.98	13.9	95.6	152.7
142.0		1.00	1.09	4.246	4.671	0.000	1.200	* 2.892	1.00	2.466	2.96	13.8	94.9	151.4
143.0		1.00	1.09	4.255	4.680	0.000	1.200	* 2.894	1.00	2.448	2.94	13.7	94.2	150.2
144.0		1.00	1.09	4.263	4.690	0.000	1.200	* 2.896	1.00	2.430	2.92	13.6	93.5	148.9
145.0		1.00	1.09	4.272	4.699	0.000	1.200	* 2.898	1.00	2.411	2.89	13.6	92.7	147.7
146.0	Appertunance(s)	1.00	1.10	4.280	4.708	0.000	1.200	* 2.900	1.00	2.393	2.87	13.5	92.0	146.4
147.0		1.00	1.10	4.289	4.718	0.000	1.200	* 2.902	1.00	2.375	2.85	13.4	91.3	145.1
148.0		1.00	1.10	4.297	4.727	0.000	1.200	* 2.904	1.00	2.357	2.83	13.3	90.6	143.9
149.0		1.00	1.10	4.305	4.736	0.000	1.200	* 2.906	1.00	2.339	2.81	13.3	89.8	142.6
150.0		1.00	1.10	4.314	4.745	0.000	1.200	* 2.908	1.00	2.320	2.78	13.2	89.1	141.4
151.0		1.00	1.11	4.322	4.754	0.000	1.200	* 2.910	1.00	2.302	2.76	13.1	88.4	140.1
152.0	Appertunance(s)	1.00	1.11	4.330	4.763	0.000	1.200	* 2.912	1.00	2.284	2.74	13.0	87.6	138.8
153.0		1.00	1.11	4.338	4.772	0.000	1.200	* 2.914	1.00	2.266	2.72	12.9	86.9	137.5
154.0		1.00	1.11	4.346	4.781	0.000	1.200	* 2.915	1.00	2.247	2.70	12.9	86.1	136.3
155.0		1.00	1.11	4.354	4.790	0.000	1.200	* 2.917	1.00	2.229	2.67	12.8	85.4	135.0
156.0		1.00	1.12	4.362	4.799	0.000	1.200	* 2.919	1.00	2.211	2.65	12.7	84.7	133.7
157.0		1.00	1.12	4.370	4.807	0.000	1.200	* 2.921	1.00	2.193	2.63	12.6	83.9	132.5

Site Number:	302506	Code: ANSI/TIA-222-G		
Site Name:	Winchester CT 3, CT	Engineering Number: OAA692405_C3_01		1/5/2017 2:52:31 PM
Customer:	AT&T Mobility			

Load Case: 1.2D + 1.0Di + 1.0Wi — 40 mph with 1.00 in Radial Ice — 35 Iterations

Gust Response Factor : 1.10 | Ice Dead Load Factor : 1.00 | Wind Importance Factor : 1.00

Dead Load Factor : 1.20 | Ice Importance Factor : 1.25

Wind Load Factor : 1.00

158.0		1.00	1.12	4.378	4.816	0.000	1.200	*	2.923	1.00	2.174	2.61	12.5	83.2	131.2
159.0		1.00	1.12	4.386	4.825	0.000	1.200	*	2.925	1.00	2.156	2.59	12.4	82.4	129.9
160.0		1.00	1.12	4.394	4.834	0.000	1.200	*	2.927	1.00	2.138	2.57	12.4	81.7	128.6
161.0		1.00	1.13	4.402	4.842	0.000	1.200	*	2.928	1.00	2.119	2.54	12.3	80.9	127.3
162.0		1.00	1.13	4.410	4.851	0.000	1.200	*	2.930	1.00	2.101	2.52	12.2	80.2	126.1
163.0	Appertunance(s)	1.00	1.13	4.418	4.859	0.000	1.200	*	2.932	1.00	2.083	2.50	12.1	79.4	124.8
164.0		1.00	1.13	4.425	4.868	0.000	1.200		2.934	1.00	2.065	2.48	12.0	78.7	123.5
165.0		1.00	1.13	4.433	4.876	0.000	1.200		2.936	1.00	2.046	2.46	11.9	77.9	122.2
166.0		1.00	1.14	4.441	4.885	0.000	1.200		2.937	1.00	2.028	2.43	11.8	77.2	120.9
167.0		1.00	1.14	4.448	4.893	0.000	1.200		2.939	1.00	2.010	2.41	11.8	76.4	119.6
168.0		1.00	1.14	4.456	4.902	0.000	1.200		2.941	1.00	1.992	2.39	11.7	75.7	118.3
169.0		1.00	1.14	4.464	4.910	0.000	1.200		2.943	1.00	1.973	2.37	11.6	74.9	117.0
170.0		1.00	1.14	4.471	4.918	0.000	1.200		2.944	1.00	1.955	2.35	11.5	74.2	115.7
171.0		1.00	1.15	4.479	4.927	0.000	1.200		2.946	1.00	1.937	2.32	11.4	73.4	114.5
172.0		1.00	1.15	4.486	4.935	0.000	1.200		2.948	1.00	1.918	2.30	11.3	72.6	113.2
173.0		1.00	1.15	4.494	4.943	0.000	1.200		2.950	1.00	1.900	2.28	11.2	71.9	111.9
174.0	Appertunance(s)	1.00	1.15	4.501	4.951	0.000	1.200		2.951	1.00	1.882	2.26	11.1	71.1	110.6
175.0		1.00	1.15	4.508	4.959	0.000	1.200		2.953	1.00	1.864	2.24	11.0	70.3	109.3
176.0		1.00	1.16	4.516	4.967	0.000	1.200		2.955	1.00	1.845	2.21	11.0	69.6	108.0
177.0		1.00	1.16	4.523	4.975	0.000	1.200		2.956	1.00	1.827	2.19	10.9	68.8	106.7
178.0		1.00	1.16	4.530	4.983	0.000	1.200		2.958	1.00	1.809	2.17	10.8	68.0	105.4
179.0		1.00	1.16	4.538	4.992	0.000	1.200		2.960	1.00	1.790	2.15	10.7	67.3	104.1
180.0	Appertunance(s)	1.00	1.16	4.545	4.999	0.000	1.200		2.961	1.00	1.772	2.13	5.3	66.5	102.8
* = Cf Adjusted By Linear Load Ra Effect								Totals:		180.00			2,748.5	21,674.0	51,999.3

Site Number: 302506 Code: ANSI/TIA-222-G

Site Name: Winchester CT 3, CT Engineering Number: OAA692405_C3_01 1/5/2017 2:52:48 PM

Customer: AT&T Mobility

Load Case: 1.2D + 1.0Di + 1.0Wi 40 mph with 1.00 in Radial Ice 35 Iterations

Gust Response Factor : 1.10 Ice Dead Load Factor : 1.00 Wind Importance Factor : 1.00

Dead Load Factor : 1.20 Ice Importance Factor : 1.25

Wind Load Factor : 1.00

Applied Segment Forces Summary

		Shaft Forces		Discrete Forces				Linear Forces		Sum of Forces			
Seg Elev (ft)	Description	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		8.5	0.0					0.0	0.0	8.5	0.0	0.0	0.0
1.00		17.0	407.6					0.0	362.1	17.0	769.7	0.0	0.0
2.00		17.0	419.2					0.0	380.1	17.0	799.3	0.0	0.0
3.00		17.0	424.2					0.0	389.4	17.0	813.6	0.0	0.0
4.00		17.0	427.0					0.0	395.8	17.0	822.9	0.0	0.0
5.00		17.0	428.8					0.0	400.8	17.0	829.6	0.0	0.0
6.00		16.9	429.9					0.0	404.9	16.9	834.8	0.0	0.0
7.00		16.9	430.5					0.0	408.4	16.9	838.9	0.0	0.0
8.00		16.8	430.8					0.0	411.5	16.8	842.3	0.0	0.0
9.00		16.8	430.8					0.0	414.2	16.8	845.1	0.0	0.0
10.00		16.7	430.7					0.0	416.7	16.7	847.4	0.0	0.0
11.00		16.7	430.3					0.0	418.9	16.7	849.3	0.0	0.0
12.00		16.6	429.9					0.0	421.0	16.6	850.9	0.0	0.0
13.00		16.5	429.3					0.0	422.9	16.5	852.2	0.0	0.0
14.00		16.5	428.6					0.0	424.7	16.5	853.3	0.0	0.0
15.00		16.4	427.9					0.0	426.4	16.4	854.2	0.0	0.0
16.00		16.4	427.0					0.0	428.0	16.4	855.0	0.0	0.0
17.00		16.3	426.1					0.0	429.5	16.3	855.6	0.0	0.0
18.00		16.3	425.1					0.0	430.9	16.3	856.0	0.0	0.0
19.00		16.2	424.1					0.0	432.2	16.2	856.4	0.0	0.0
20.00		16.1	423.1					0.0	433.5	16.1	856.6	0.0	0.0
21.00		16.1	421.9					0.0	434.8	16.1	856.7	0.0	0.0
22.00		16.0	420.8					0.0	435.9	16.0	856.7	0.0	0.0
23.00		16.0	419.6					0.0	437.1	16.0	856.7	0.0	0.0
24.00		15.9	418.4					0.0	438.2	15.9	856.6	0.0	0.0
25.00		15.8	417.1					0.0	439.2	15.8	856.4	0.0	0.0
26.00		15.8	415.9					0.0	440.2	15.8	856.1	0.0	0.0
27.00		15.7	414.6					0.0	441.2	15.7	855.8	0.0	0.0
28.00		15.7	413.2					0.0	442.2	15.7	855.4	0.0	0.0
29.00		15.6	411.9					0.0	443.1	15.6	854.9	0.0	0.0
30.00	Appertunance(s)	15.6	410.5	4.6	0.0	0.0	74.8	0.0	444.0	20.1	929.3	0.0	0.0
31.00		15.6	409.1					0.0	434.7	15.6	843.8	0.0	0.0
32.00		15.7	407.7					0.0	435.5	15.7	843.2	0.0	0.0
33.00		15.8	406.2					0.0	436.3	15.8	842.5	0.0	0.0
34.00		15.9	404.8					0.0	437.0	15.9	841.8	0.0	0.0
35.00		15.9	403.3					0.0	437.8	15.9	841.1	0.0	0.0
36.00		16.0	401.8					0.0	438.5	16.0	840.3	0.0	0.0
37.00		16.0	400.3					0.0	439.2	16.0	839.5	0.0	0.0
38.00		16.1	398.8					0.0	439.8	16.1	838.6	0.0	0.0
39.00		16.1	397.3					0.0	440.5	16.1	837.8	0.0	0.0
40.00		16.2	395.7					0.0	441.1	16.2	836.9	0.0	0.0
41.00		16.2	394.2					0.0	441.8	16.2	835.9	0.0	0.0
42.00		15.9	392.6					0.0	442.4	15.9	835.0	0.0	0.0
42.96	Bot - Section 2	8.2	374.1					0.0	423.7	8.2	797.8	0.0	0.0
43.00		8.7	26.3					0.0	19.3	8.7	45.5	0.0	0.0
44.00		16.6	603.7					0.0	443.6	16.6	1,047.2	0.0	0.0
45.00		16.7	601.0					0.0	444.2	16.7	1,045.2	0.0	0.0
46.00		16.7	598.3					0.0	444.7	16.7	1,043.1	0.0	0.0
47.00		16.7	595.6					6.5	445.3	23.2	1,040.9	0.0	0.0

Load Case: 1.2D + 1.0Di + 1.0Wi 40 mph with 1.00 in Radial Ice 35 Iterations

Gust Response Factor : 1.10 Ice Dead Load Factor : 1.00 Wind Importance Factor : 1.00
Dead Load Factor : 1.20 Ice Importance Factor : 1.25
Wind Load Factor : 1.00

48.00		16.7	593.0					6.5	445.8	23.2	1,038.8	0.0	0.0
49.00		8.7	590.3					6.6	446.4	15.3	1,036.6	0.0	0.0
49.04	Top - Section 1	8.4	23.5					0.3	17.8	8.7	41.3	0.0	0.0
50.00		16.5	338.4					0.0	429.1	16.5	767.5	0.0	0.0
51.00		16.8	351.1					6.6	447.4	23.5	798.5	0.0	0.0
52.00		16.8	349.6					6.7	447.9	23.5	797.5	0.0	0.0
53.00		16.8	348.1					6.7	448.4	23.6	796.5	0.0	0.0
54.00		16.9	346.6					6.8	448.9	23.6	795.5	0.0	0.0
55.00		16.9	345.1					6.8	449.4	23.7	794.5	0.0	0.0
56.00		16.9	343.6					6.9	449.9	23.7	793.5	0.0	0.0
57.00		16.9	342.1					6.9	450.4	23.8	792.4	0.0	0.0
58.00		16.9	340.5					6.9	450.8	23.8	791.4	0.0	0.0
59.00		16.9	339.0					7.0	451.3	23.9	790.3	0.0	0.0
60.00		16.9	337.5					7.0	451.7	23.9	789.2	0.0	0.0
61.00		16.9	335.9					7.1	452.2	24.0	788.1	0.0	0.0
62.00		16.9	334.4					7.1	452.6	24.0	787.0	0.0	0.0
63.00		16.9	332.8					7.1	453.0	24.1	785.9	0.0	0.0
64.00		16.9	331.2					7.2	453.5	24.1	784.7	0.0	0.0
65.00		16.9	329.7					7.2	453.9	24.1	783.6	0.0	0.0
66.00		16.9	328.1					7.3	454.3	24.2	782.4	0.0	0.0
67.00		16.9	326.5					7.3	454.7	24.2	781.2	0.0	0.0
68.00		16.9	324.9					7.3	455.1	24.2	780.1	0.0	0.0
69.00		16.9	323.4					7.4	455.5	24.2	778.9	0.0	0.0
70.00		16.9	321.8					7.4	455.9	24.3	777.7	0.0	0.0
71.00		16.8	320.2					7.4	456.3	24.3	776.5	0.0	0.0
72.00		16.8	318.6					7.5	456.7	24.3	775.2	0.0	0.0
73.00		16.8	317.0					7.5	457.1	24.3	774.0	0.0	0.0
74.00		16.8	315.3					7.5	457.4	24.3	772.8	0.0	0.0
75.00		16.8	313.7					7.6	457.8	24.4	771.5	0.0	0.0
76.00		16.7	312.1					7.6	458.2	24.4	770.3	0.0	0.0
77.00		16.7	310.5					7.7	458.5	24.4	769.0	0.0	0.0
78.00		16.7	308.8					7.7	458.9	24.4	767.7	0.0	0.0
79.00	Appertunance(s)	16.7	307.2	2.0	0.0	0.0	24.4	7.7	459.2	26.4	790.9	0.0	0.0
80.00	Appertunance(s)	16.7	305.6	215.3	0.0	0.0	938.7	7.8	459.4	239.7	1,703.6	0.0	0.0
81.00		16.6	303.9					7.8	459.1	24.4	763.1	0.0	0.0
82.00		16.6	302.3					7.8	459.5	24.4	761.8	0.0	0.0
83.00		16.6	300.6					7.9	459.8	24.4	760.5	0.0	0.0
84.00		16.5	299.0					7.9	460.2	24.4	759.1	0.0	0.0
85.00		16.5	297.3					7.9	460.5	24.4	757.8	0.0	0.0
86.00		16.5	295.7					7.9	460.8	24.4	756.5	0.0	0.0
87.00		12.7	294.0					8.0	461.1	20.6	755.2	0.0	0.0
87.54	Bot - Section 3	8.3	158.1					4.3	249.1	12.6	407.2	0.0	0.0
88.00		12.2	199.8					3.7	212.4	15.8	412.1	0.0	0.0
89.00		16.6	432.1					8.0	461.8	24.7	893.9	0.0	0.0
90.00		16.6	429.6					8.1	462.1	24.7	891.7	0.0	0.0
91.00		16.6	427.0					8.1	462.4	24.7	889.4	0.0	0.0
92.00		12.0	424.4					8.1	462.7	20.2	887.2	0.0	0.0
92.46	Top - Section 2	8.3	193.0					3.7	211.4	12.0	404.4	0.0	0.0
93.00		12.7	142.5					4.4	251.7	17.2	394.1	0.0	0.0
94.00		16.4	260.8					8.2	463.3	24.6	724.1	0.0	0.0
95.00		16.4	259.3					8.2	463.6	24.6	722.9	0.0	0.0
96.00	Appertunance(s)	16.4	257.8	111.1	0.0	-44.4	975.4	8.3	463.9	135.7	1,697.1	0.0	0.0
97.00		16.3	256.3					8.3	463.2	24.6	719.5	0.0	0.0
98.00		16.3	254.8					8.3	463.5	24.6	718.3	0.0	0.0
99.00		16.2	253.3					8.3	463.8	24.6	717.1	0.0	0.0
100.00		16.2	251.7					8.4	464.1	24.6	715.8	0.0	0.0
101.00		16.1	250.2					8.4	464.4	24.5	714.6	0.0	0.0

Load Case: 1.2D + 1.0Di + 1.0Wi 40 mph with 1.00 in Radial Ice 35 Iterations

Gust Response Factor : 1.10 Ice Dead Load Factor : 1.00 Wind Importance Factor : 1.00
Dead Load Factor : 1.20 Ice Importance Factor : 1.25
Wind Load Factor : 1.00

102.00		16.1	248.7					8.4	464.7	24.5	713.4	0.0	0.0
103.00		16.0	247.1					8.5	465.0	24.5	712.1	0.0	0.0
104.00		12.0	245.6					8.5	465.2	20.5	710.9	0.0	0.0
104.50	Reinf. Top	8.0	122.3					4.3	232.7	12.2	355.1	0.0	0.0
105.00		12.0	121.9					4.3	192.7	16.2	314.7	0.0	0.0
106.00		15.9	242.5					8.5	385.6	24.4	628.2	0.0	0.0
107.00		15.8	241.0					8.6	385.9	24.4	626.9	0.0	0.0
108.00		15.8	239.5					8.6	386.2	24.4	625.6	0.0	0.0
109.00		15.7	237.9					8.6	386.4	24.4	624.3	0.0	0.0
110.00		15.7	236.4					8.6	386.7	24.3	623.1	0.0	0.0
111.00	Appertunance(s)	15.6	234.8	64.3	0.0	0.0	773.2	8.7	387.0	88.6	1,395.0	0.0	0.0
112.00		15.6	233.3					8.7	343.5	24.3	576.8	0.0	0.0
113.00	Appertunance(s)	15.5	231.7	372.7	0.0	0.0	5,344.0	10.8	299.3	399.1	5,875.0	0.0	0.0
114.00		15.5	230.1					8.4	192.8	23.9	423.0	0.0	0.0
115.00		15.4	228.6					8.5	193.0	23.9	421.6	0.0	0.0
116.00		15.3	227.0					8.5	193.1	23.8	420.1	0.0	0.0
117.00		15.3	225.5					8.5	193.2	23.8	418.7	0.0	0.0
118.00		15.2	223.9					8.5	193.3	23.8	417.2	0.0	0.0
119.00		15.2	222.3					8.6	193.5	23.7	415.8	0.0	0.0
120.00		15.1	220.8					8.6	193.6	23.7	414.3	0.0	0.0
121.00		15.0	219.2					8.6	193.7	23.7	412.9	0.0	0.0
122.00	Appertunance(s)	15.0	217.6	530.0	0.0	0.0	7,538.9	8.6	193.8	553.6	7,950.3	0.0	0.0
123.00		14.9	216.0					0.0	115.6	14.9	331.6	0.0	0.0
124.00		14.9	214.5					0.0	115.7	14.9	330.1	0.0	0.0
125.00		14.8	212.9					0.0	115.7	14.8	328.6	0.0	0.0
126.00		14.7	211.3					0.0	115.8	14.7	327.1	0.0	0.0
127.00		14.7	209.7					0.0	115.8	14.7	325.6	0.0	0.0
128.00		14.6	208.1					0.0	115.9	14.6	324.0	0.0	0.0
129.00		14.5	206.5					0.0	116.0	14.5	322.5	0.0	0.0
130.00		14.5	204.9					0.0	116.0	14.5	321.0	0.0	0.0
131.00		14.4	203.4					0.0	116.1	14.4	319.4	0.0	0.0
132.00		8.0	201.8					0.0	116.1	8.0	317.9	0.0	0.0
132.12	Bot - Section 4	7.2	24.1					0.0	13.9	7.2	38.0	0.0	0.0
133.00		13.6	231.3					0.0	102.3	13.6	333.6	0.0	0.0
134.00		14.4	260.7					0.0	116.2	14.4	377.0	0.0	0.0
135.00		13.4	258.6					0.0	116.3	13.4	374.9	0.0	0.0
135.87	Top - Section 3	7.1	223.2					0.0	101.2	7.1	324.4	0.0	0.0
136.00		8.0	20.7					0.0	15.2	8.0	35.8	0.0	0.0
137.00	Appertunance(s)	14.2	157.7	635.4	0.0	0.0	9,449.4	0.0	116.4	649.6	9,723.5	0.0	0.0
138.00		14.1	156.4					0.0	112.0	14.1	268.5	0.0	0.0
139.00		14.0	155.2					0.0	112.1	14.0	267.3	0.0	0.0
140.00	Appertunance(s)	13.9	153.9	104.8	0.0	-11.7	1,633.0	0.0	112.1	118.7	1,899.0	0.0	0.0
141.00		13.9	152.7					0.0	111.4	13.9	264.1	0.0	0.0
142.00		13.8	151.4					0.0	111.5	13.8	262.9	0.0	0.0
143.00		13.7	150.2					0.0	111.5	13.7	261.7	0.0	0.0
144.00		13.6	148.9					0.0	111.6	13.6	260.5	0.0	0.0
145.00		13.6	147.7					0.0	111.6	13.6	259.3	0.0	0.0
146.00	Appertunance(s)	13.5	146.4	448.2	0.0	107.0	3,121.9	0.0	111.7	461.7	3,379.9	0.0	0.0
147.00		13.4	145.1					0.0	104.7	13.4	249.8	0.0	0.0
148.00		13.3	143.9					0.0	104.7	13.3	248.6	0.0	0.0
149.00		13.3	142.6					0.0	104.8	13.3	247.4	0.0	0.0
150.00		13.2	141.4					0.0	104.8	13.2	246.2	0.0	0.0
151.00		13.1	140.1					0.0	104.9	13.1	244.9	0.0	0.0
152.00	Appertunance(s)	13.0	138.8	65.3	0.0	0.0	333.2	0.0	104.9	78.3	577.0	0.0	0.0
153.00		12.9	137.5					0.0	104.0	12.9	241.5	0.0	0.0
154.00		12.9	136.3					0.0	104.0	12.9	240.3	0.0	0.0
155.00		12.8	135.0					0.0	104.1	12.8	239.1	0.0	0.0

Load Case: 1.2D + 1.0Di + 1.0Wi 40 mph with 1.00 in Radial Ice 35 Iterations

Gust Response Factor : 1.10 Ice Dead Load Factor : 1.00 Wind Importance Factor : 1.00
Dead Load Factor : 1.20 Ice Importance Factor : 1.25
Wind Load Factor : 1.00

156.00		12.7	133.7					0.0	104.1	12.7	237.8	0.0	0.0
157.00		12.6	132.5					0.0	104.2	12.6	236.6	0.0	0.0
158.00		12.5	131.2					0.0	104.2	12.5	235.4	0.0	0.0
159.00		12.4	129.9					0.0	104.3	12.4	234.2	0.0	0.0
160.00		12.4	128.6					0.0	104.3	12.4	232.9	0.0	0.0
161.00		12.3	127.3					4.8	104.4	17.0	231.7	0.0	0.0
162.00		12.2	126.1					4.8	104.4	17.0	230.4	0.0	0.0
163.00	Appertunance(s)	12.1	124.8	309.7	0.0	0.0	4,446.8	4.8	104.4	326.6	4,676.0	0.0	0.0
164.00		12.0	123.5					0.0	22.8	12.0	146.3	0.0	0.0
165.00		11.9	122.2					0.0	22.8	11.9	145.0	0.0	0.0
166.00		11.8	120.9					0.0	22.8	11.8	143.7	0.0	0.0
167.00		11.8	119.6					0.0	22.8	11.8	142.4	0.0	0.0
168.00		11.7	118.3					0.0	22.8	11.7	141.2	0.0	0.0
169.00		11.6	117.0					0.0	22.8	11.6	139.9	0.0	0.0
170.00		11.5	115.7					0.0	22.8	11.5	138.6	0.0	0.0
171.00		11.4	114.5					0.0	22.8	11.4	137.3	0.0	0.0
172.00		11.3	113.2					0.0	22.8	11.3	136.0	0.0	0.0
173.00		11.2	111.9					0.0	22.8	11.2	134.7	0.0	0.0
174.00	Appertunance(s)	11.1	110.6	289.6	0.0	0.0	4,397.9	0.0	22.8	300.8	4,531.3	0.0	0.0
175.00		11.0	109.3					0.0	22.8	11.0	132.1	0.0	0.0
176.00		11.0	108.0					0.0	22.8	11.0	130.8	0.0	0.0
177.00		10.9	106.7					0.0	22.8	10.9	129.5	0.0	0.0
178.00		10.8	105.4					0.0	22.8	10.8	128.2	0.0	0.0
179.00		10.7	104.1					0.0	22.8	10.7	126.9	0.0	0.0
180.00		5.3	102.8					0.0	22.8	5.3	125.6	0.0	0.0
								Totals:		6,504.21	147,273.	0.00	0.00

Site Number: 302506 Code: ANSI/TIA-222-G

Site Name: Winchester CT 3, CT Engineering Number: OAA692405_C3_01 1/5/2017 2:52:48 PM

Customer: AT&T Mobility

Load Case: 1.2D + 1.0Di + 1.0Wi 40 mph with 1.00 in Radial Ice 35 Iterations

Gust Response Factor : 1.10 Ice Dead Load Factor : 1.00 Wind Importance Factor : 1.00

Dead Load Factor : 1.20 Ice Importance Factor : 1.25

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	-155.02	-7.09	0.00	-958.45	0.00	958.45	5,102.86	2,551.43	10,963.2	5,489.79	0.00	0.00	0.153
1.00	-154.25	-7.09	0.00	-951.36	0.00	951.36	5,088.23	2,544.11	10,885.6	5,450.89	0.00	-0.01	0.153
2.00	-153.45	-7.10	0.00	-944.27	0.00	944.27	5,073.54	2,536.77	10,808.0	5,412.06	0.00	-0.02	0.152
3.00	-152.64	-7.10	0.00	-937.17	0.00	937.17	5,058.79	2,529.39	10,730.6	5,373.31	0.01	-0.02	0.152
4.00	-151.81	-7.11	0.00	-930.07	0.00	930.07	5,043.98	2,521.99	10,653.4	5,334.64	0.01	-0.03	0.152
5.00	-150.98	-7.11	0.00	-922.96	0.00	922.96	5,029.12	2,514.56	10,576.3	5,296.03	0.02	-0.04	0.152
6.00	-150.15	-7.11	0.00	-915.85	0.00	915.85	5,014.20	2,507.10	10,499.4	5,257.51	0.03	-0.05	0.151
7.00	-149.31	-7.12	0.00	-908.74	0.00	908.74	4,999.22	2,499.61	10,422.6	5,219.05	0.04	-0.06	0.151
8.00	-148.46	-7.12	0.00	-901.62	0.00	901.62	4,984.19	2,492.10	10,345.9	5,180.68	0.05	-0.06	0.151
9.00	-147.62	-7.12	0.00	-894.50	0.00	894.50	4,969.10	2,484.55	10,269.5	5,142.38	0.07	-0.07	0.150
10.00	-146.77	-7.13	0.00	-887.38	0.00	887.38	4,953.95	2,476.98	10,193.1	5,104.17	0.09	-0.08	0.150
11.00	-145.92	-7.13	0.00	-880.25	0.00	880.25	4,938.75	2,469.37	10,117.0	5,066.03	0.10	-0.09	0.150
12.00	-145.07	-7.13	0.00	-873.12	0.00	873.12	4,923.49	2,461.74	10,041.0	5,027.97	0.12	-0.10	0.149
13.00	-144.21	-7.14	0.00	-865.98	0.00	865.98	4,908.17	2,454.08	9,965.17	4,989.99	0.14	-0.11	0.149
14.00	-143.36	-7.14	0.00	-858.84	0.00	858.84	4,892.79	2,446.40	9,889.49	4,952.10	0.17	-0.11	0.148
15.00	-142.50	-7.14	0.00	-851.70	0.00	851.70	4,877.36	2,438.68	9,813.98	4,914.28	0.19	-0.12	0.148
16.00	-141.65	-7.15	0.00	-844.56	0.00	844.56	4,861.87	2,430.94	9,738.63	4,876.55	0.22	-0.13	0.148
17.00	-140.79	-7.15	0.00	-837.42	0.00	837.42	4,846.32	2,423.16	9,663.45	4,838.91	0.25	-0.14	0.147
18.00	-139.93	-7.15	0.00	-830.27	0.00	830.27	4,830.72	2,415.36	9,588.44	4,801.34	0.28	-0.15	0.147
19.00	-139.08	-7.15	0.00	-823.12	0.00	823.12	4,815.06	2,407.53	9,513.60	4,763.87	0.31	-0.16	0.147
20.00	-138.22	-7.16	0.00	-815.96	0.00	815.96	4,799.34	2,399.67	9,438.93	4,726.48	0.34	-0.17	0.146
21.00	-137.36	-7.16	0.00	-808.81	0.00	808.81	4,783.57	2,391.78	9,364.44	4,689.18	0.38	-0.17	0.146
22.00	-136.50	-7.16	0.00	-801.65	0.00	801.65	4,767.74	2,383.87	9,290.12	4,651.96	0.42	-0.18	0.145
23.00	-135.64	-7.16	0.00	-794.49	0.00	794.49	4,751.85	2,375.92	9,215.98	4,614.84	0.46	-0.19	0.145
24.00	-134.79	-7.16	0.00	-787.33	0.00	787.33	4,735.90	2,367.95	9,142.01	4,577.80	0.50	-0.20	0.145
25.00	-133.93	-7.16	0.00	-780.17	0.00	780.17	4,719.90	2,359.95	9,068.23	4,540.86	0.54	-0.21	0.144
26.00	-133.07	-7.17	0.00	-773.01	0.00	773.01	4,703.84	2,351.92	8,994.63	4,504.00	0.59	-0.22	0.144
27.00	-132.22	-7.17	0.00	-765.84	0.00	765.84	4,687.72	2,343.86	8,921.22	4,467.24	0.63	-0.23	0.143
28.00	-131.36	-7.17	0.00	-758.68	0.00	758.68	4,671.55	2,335.77	8,847.98	4,430.57	0.68	-0.24	0.143
29.00	-130.50	-7.17	0.00	-751.51	0.00	751.51	4,655.31	2,327.66	8,774.94	4,393.99	0.73	-0.24	0.142
30.00	-129.57	-7.16	0.00	-744.34	0.00	744.34	4,639.03	2,319.51	8,702.08	4,357.51	0.78	-0.25	0.142
31.00	-128.73	-7.17	0.00	-737.18	0.00	737.18	4,622.68	2,311.34	8,629.41	4,321.12	0.84	-0.26	0.141
32.00	-127.88	-7.17	0.00	-730.01	0.00	730.01	4,606.28	2,303.14	8,556.93	4,284.83	0.89	-0.27	0.141
33.00	-127.04	-7.17	0.00	-722.85	0.00	722.85	4,589.82	2,294.91	8,484.65	4,248.63	0.95	-0.28	0.141
34.00	-126.20	-7.17	0.00	-715.68	0.00	715.68	4,573.30	2,286.65	8,412.56	4,212.53	1.01	-0.29	0.140
35.00	-125.36	-7.16	0.00	-708.52	0.00	708.52	4,556.73	2,278.36	8,340.67	4,176.53	1.07	-0.30	0.140
36.00	-124.51	-7.16	0.00	-701.35	0.00	701.35	4,540.10	2,270.05	8,268.97	4,140.63	1.14	-0.31	0.139
37.00	-123.67	-7.16	0.00	-694.19	0.00	694.19	4,523.41	2,261.70	8,197.47	4,104.83	1.20	-0.32	0.139
38.00	-122.83	-7.16	0.00	-687.03	0.00	687.03	4,506.66	2,253.33	8,126.17	4,069.13	1.27	-0.32	0.138
39.00	-122.00	-7.16	0.00	-679.87	0.00	679.87	4,489.86	2,244.93	8,055.08	4,033.53	1.34	-0.33	0.138
40.00	-121.16	-7.16	0.00	-672.71	0.00	672.71	4,473.00	2,236.50	7,984.18	3,998.03	1.41	-0.34	0.137
41.00	-120.32	-7.16	0.00	-665.55	0.00	665.55	4,456.09	2,228.04	7,913.50	3,962.63	1.48	-0.35	0.137
42.00	-119.48	-7.15	0.00	-658.40	0.00	658.40	4,439.11	2,219.56	7,843.02	3,927.34	1.56	-0.36	0.136
42.96	-118.69	-7.15	0.00	-651.55	0.00	651.55	4,422.82	2,211.41	7,775.79	3,893.68	1.63	-0.37	0.135
43.00	-118.64	-7.15	0.00	-651.24	0.00	651.24	4,422.08	2,211.04	7,772.74	3,892.15	1.63	-0.37	0.134
44.00	-117.59	-7.15	0.00	-644.09	0.00	644.09	4,400.67	2,200.33	7,695.11	3,853.28	1.71	-0.38	0.134
45.00	-116.55	-7.14	0.00	-636.95	0.00	636.95	4,378.03	2,189.01	7,615.75	3,813.53	1.79	-0.39	0.133
46.00	-115.50	-7.13	0.00	-629.81	0.00	629.81	4,355.39	2,177.70	7,536.79	3,773.99	1.87	-0.40	0.133
47.00	-114.46	-7.12	0.00	-622.67	0.00	622.67	4,332.75	2,166.38	7,458.24	3,734.66	1.96	-0.41	0.133
48.00	-113.42	-7.11	0.00	-615.55	0.00	615.55	4,310.11	2,155.06	7,380.10	3,695.54	2.04	-0.42	0.132
49.00	-112.38	-7.10	0.00	-608.44	0.00	608.44	4,287.47	2,143.74	7,302.38	3,656.62	2.13	-0.42	0.132

Site Number:	302506			Code:	ANSI/TIA-222-G								
Site Name:	Winchester CT 3, CT			Engineering Number:	OAA692405_C3_01					1/5/2017 2:52:48 PM			
Customer:	AT&T Mobility												

Load Case: 1.2D + 1.0Di + 1.0Wi — 40 mph with 1.00 in Radial Ice — 35 Iterations

Gust Response Factor : 1.10 | Ice Dead Load Factor : 1.00 | Wind Importance Factor : 1.00

Dead Load Factor : 1.20 | Ice Importance Factor : 1.25

Wind Load Factor : 1.00

49.04	-112.34	-7.10	0.00	-608.16	0.00	608.16	3,604.17	1,802.08	6,267.69	3,138.50	2.14	-0.43	0.149
50.00	-111.57	-7.09	0.00	-601.35	0.00	601.35	3,591.50	1,795.75	6,214.33	3,111.78	2.22	-0.43	0.148
51.00	-110.77	-7.08	0.00	-594.25	0.00	594.25	3,578.26	1,789.13	6,158.90	3,084.03	2.31	-0.44	0.147
52.00	-109.97	-7.07	0.00	-587.17	0.00	587.17	3,564.96	1,782.48	6,103.60	3,056.34	2.41	-0.45	0.146
53.00	-109.18	-7.06	0.00	-580.10	0.00	580.10	3,551.60	1,775.80	6,048.46	3,028.72	2.50	-0.46	0.146
54.00	-108.38	-7.05	0.00	-573.04	0.00	573.04	3,538.18	1,769.09	5,993.45	3,001.18	2.60	-0.47	0.145
55.00	-107.58	-7.04	0.00	-565.99	0.00	565.99	3,524.70	1,762.35	5,938.60	2,973.71	2.70	-0.48	0.144
56.00	-106.79	-7.02	0.00	-558.96	0.00	558.96	3,511.17	1,755.59	5,883.90	2,946.32	2.81	-0.49	0.143
57.00	-106.00	-7.01	0.00	-551.93	0.00	551.93	3,497.59	1,748.79	5,829.34	2,919.00	2.91	-0.50	0.142
58.00	-105.20	-7.00	0.00	-544.92	0.00	544.92	3,483.94	1,741.97	5,774.94	2,891.76	3.02	-0.51	0.142
59.00	-104.41	-6.99	0.00	-537.92	0.00	537.92	3,470.24	1,735.12	5,720.69	2,864.60	3.13	-0.52	0.141
60.00	-103.62	-6.97	0.00	-530.93	0.00	530.93	3,456.48	1,728.24	5,666.60	2,837.51	3.24	-0.53	0.140
61.00	-102.83	-6.96	0.00	-523.96	0.00	523.96	3,442.66	1,721.33	5,612.67	2,810.51	3.35	-0.54	0.139
62.00	-102.05	-6.95	0.00	-517.00	0.00	517.00	3,428.79	1,714.39	5,558.89	2,783.58	3.46	-0.55	0.138
63.00	-101.26	-6.93	0.00	-510.06	0.00	510.06	3,414.86	1,707.43	5,505.28	2,756.73	3.58	-0.56	0.137
64.00	-100.47	-6.92	0.00	-503.12	0.00	503.12	3,400.87	1,700.44	5,451.82	2,729.96	3.70	-0.57	0.137
65.00	-99.69	-6.90	0.00	-496.21	0.00	496.21	3,386.83	1,693.41	5,398.53	2,703.28	3.82	-0.58	0.136
66.00	-98.91	-6.89	0.00	-489.31	0.00	489.31	3,372.72	1,686.36	5,345.41	2,676.68	3.94	-0.59	0.135
67.00	-98.12	-6.87	0.00	-482.42	0.00	482.42	3,358.57	1,679.28	5,292.45	2,650.16	4.07	-0.60	0.134
68.00	-97.34	-6.86	0.00	-475.55	0.00	475.55	3,344.35	1,672.18	5,239.65	2,623.72	4.20	-0.61	0.133
69.00	-96.56	-6.84	0.00	-468.69	0.00	468.69	3,330.08	1,665.04	5,187.03	2,597.37	4.33	-0.62	0.132
70.00	-95.78	-6.83	0.00	-461.85	0.00	461.85	3,315.75	1,657.87	5,134.58	2,571.11	4.46	-0.63	0.131
71.00	-95.01	-6.81	0.00	-455.02	0.00	455.02	3,301.36	1,650.68	5,082.30	2,544.93	4.59	-0.64	0.130
72.00	-94.23	-6.79	0.00	-448.22	0.00	448.22	3,286.92	1,643.46	5,030.20	2,518.84	4.73	-0.65	0.129
73.00	-93.46	-6.77	0.00	-441.42	0.00	441.42	3,272.42	1,636.21	4,978.27	2,492.84	4.86	-0.66	0.128
74.00	-92.68	-6.76	0.00	-434.65	0.00	434.65	3,257.86	1,628.93	4,926.52	2,466.92	5.00	-0.67	0.127
75.00	-91.91	-6.74	0.00	-427.89	0.00	427.89	3,242.30	1,621.15	4,873.54	2,440.39	5.15	-0.68	0.126
76.00	-91.14	-6.72	0.00	-421.15	0.00	421.15	3,222.90	1,611.45	4,815.08	2,411.12	5.29	-0.69	0.125
77.00	-90.37	-6.70	0.00	-414.43	0.00	414.43	3,203.49	1,601.75	4,756.98	2,382.03	5.44	-0.70	0.125
78.00	-89.60	-6.69	0.00	-407.73	0.00	407.73	3,184.09	1,592.04	4,699.23	2,353.11	5.58	-0.71	0.124
79.00	-88.81	-6.66	0.00	-401.04	0.00	401.04	3,164.68	1,582.34	4,641.84	2,324.37	5.73	-0.72	0.123
80.00	-87.11	-6.42	0.00	-394.38	0.00	394.38	3,145.28	1,572.64	4,584.79	2,295.80	5.89	-0.73	0.122
81.00	-86.34	-6.40	0.00	-387.96	0.00	387.96	3,125.87	1,562.94	4,528.10	2,267.42	6.04	-0.74	0.121
82.00	-85.58	-6.38	0.00	-381.56	0.00	381.56	3,106.47	1,553.24	4,471.77	2,239.21	6.20	-0.75	0.120
83.00	-84.82	-6.36	0.00	-375.18	0.00	375.18	3,087.07	1,543.53	4,415.78	2,211.17	6.36	-0.76	0.119
84.00	-84.06	-6.34	0.00	-368.82	0.00	368.82	3,067.66	1,533.83	4,360.15	2,183.32	6.52	-0.77	0.118
85.00	-83.30	-6.32	0.00	-362.48	0.00	362.48	3,048.26	1,524.13	4,304.87	2,155.63	6.68	-0.78	0.118
86.00	-82.55	-6.30	0.00	-356.17	0.00	356.17	3,028.85	1,514.43	4,249.94	2,128.13	6.84	-0.79	0.117
87.00	-81.79	-6.28	0.00	-349.87	0.00	349.87	3,009.45	1,504.72	4,195.37	2,100.80	7.01	-0.80	0.116
87.54	-81.38	-6.27	0.00	-346.48	0.00	346.48	2,998.97	1,499.48	4,166.05	2,086.12	7.10	-0.81	0.115
88.00	-80.97	-6.25	0.00	-343.60	0.00	343.60	2,990.04	1,495.02	4,141.15	2,073.65	7.18	-0.81	0.114
89.00	-80.07	-6.23	0.00	-337.34	0.00	337.34	2,970.64	1,485.32	4,087.28	2,046.68	7.35	-0.82	0.113
90.00	-79.18	-6.21	0.00	-331.11	0.00	331.11	2,951.23	1,475.62	4,033.76	2,019.88	7.52	-0.83	0.112
91.00	-78.29	-6.18	0.00	-324.91	0.00	324.91	2,931.83	1,465.91	3,980.60	1,993.26	7.70	-0.84	0.111
92.00	-77.41	-6.16	0.00	-318.72	0.00	318.72	2,912.42	1,456.21	3,927.79	1,966.81	7.87	-0.85	0.109
92.46	-77.00	-6.15	0.00	-315.91	0.00	315.91	2,412.07	1,206.04	3,317.78	1,661.36	7.96	-0.85	0.122
93.00	-76.61	-6.13	0.00	-312.57	0.00	312.57	2,405.85	1,202.93	3,297.34	1,651.12	8.05	-0.86	0.121
94.00	-75.88	-6.11	0.00	-306.44	0.00	306.44	2,394.36	1,197.18	3,259.83	1,632.34	8.23	-0.87	0.120
95.00	-75.16	-6.09	0.00	-300.33	0.00	300.33	2,382.81	1,191.41	3,222.46	1,613.62	8.42	-0.88	0.118
96.00	-73.46	-5.94	0.00	-294.24	0.00	294.24	2,371.21	1,185.60	3,185.22	1,594.98	8.60	-0.89	0.117
97.00	-72.74	-5.92	0.00	-288.30	0.00	288.30	2,359.55	1,179.77	3,148.11	1,576.40	8.79	-0.90	0.115
98.00	-72.02	-5.89	0.00	-282.39	0.00	282.39	2,347.83	1,173.91	3,111.14	1,557.88	8.98	-0.91	0.114
99.00	-71.30	-5.87	0.00	-276.49	0.00	276.49	2,336.05	1,168.03	3,074.31	1,539.44	9.17	-0.92	0.112
100.00	-70.59	-5.85	0.00	-270.62	0.00	270.62	2,324.22	1,162.11	3,037.61	1,521.06	9.36	-0.93	0.111
101.00	-69.87	-5.82	0.00	-264.78	0.00	264.78	2,312.33	1,156.16	3,001.06	1,502.76	9.56	-0.94	0.110
102.00	-69.16	-5.80	0.00	-258.96	0.00	258.96	2,300.38	1,150.19	2,964.65	1,484.53	9.75	-0.95	0.108
103.00	-68.45	-5.77	0.00	-253.16	0.00	253.16	2,288.38	1,144.19	2,928.39	1,466.37	9.95	-0.96	0.107

Load Case: 1.2D + 1.0Di + 1.0Wi 40 mph with 1.00 in Radial Ice 35 Iterations

Gust Response Factor : 1.10 Ice Dead Load Factor : 1.00 Wind Importance Factor : 1.00
Dead Load Factor : 1.20 Ice Importance Factor : 1.25
Wind Load Factor : 1.00

104.00	-67.74	-5.75	0.00	-247.39	0.00	247.39	2,276.31	1,138.16	2,892.27	1,448.28	10.16	-0.97	0.105
104.50	-67.38	-5.73	0.00	-244.52	0.00	244.52	2,270.26	1,135.13	2,874.26	1,439.27	10.26	-0.97	0.104
104.50	-67.38	-5.73	0.00	-244.52	0.00	244.52	2,270.26	1,135.13	2,874.26	1,439.27	10.26	-0.97	0.200
105.00	-67.07	-5.73	0.00	-241.65	0.00	241.65	2,264.20	1,132.10	2,856.29	1,430.27	10.36	-0.98	0.199
106.00	-66.44	-5.71	0.00	-235.92	0.00	235.92	2,251.29	1,125.65	2,819.56	1,411.88	10.57	-0.99	0.197
107.00	-65.81	-5.70	0.00	-230.21	0.00	230.21	2,235.12	1,117.56	2,779.00	1,391.56	10.78	-1.01	0.195
108.00	-65.18	-5.68	0.00	-224.51	0.00	224.51	2,218.95	1,109.48	2,738.73	1,371.40	10.99	-1.03	0.193
109.00	-64.55	-5.67	0.00	-218.83	0.00	218.83	2,202.78	1,101.39	2,698.75	1,351.38	11.21	-1.05	0.191
110.00	-63.93	-5.65	0.00	-213.16	0.00	213.16	2,186.61	1,093.30	2,659.07	1,331.51	11.43	-1.07	0.189
111.00	-62.54	-5.56	0.00	-207.51	0.00	207.51	2,170.44	1,085.22	2,619.69	1,311.79	11.66	-1.09	0.187
112.00	-61.96	-5.54	0.00	-201.95	0.00	201.95	2,154.27	1,077.13	2,580.59	1,292.21	11.88	-1.10	0.185
113.00	-56.09	-5.05	0.00	-196.40	0.00	196.40	2,138.10	1,069.05	2,541.79	1,272.79	12.12	-1.12	0.181
114.00	-55.67	-5.03	0.00	-191.36	0.00	191.36	2,121.93	1,060.96	2,503.29	1,253.50	12.36	-1.14	0.179
115.00	-55.24	-5.02	0.00	-186.32	0.00	186.32	2,105.76	1,052.88	2,465.08	1,234.37	12.60	-1.16	0.177
116.00	-54.82	-5.00	0.00	-181.30	0.00	181.30	2,089.59	1,044.79	2,427.16	1,215.38	12.84	-1.18	0.175
117.00	-54.40	-4.99	0.00	-176.30	0.00	176.30	2,073.42	1,036.71	2,389.54	1,196.54	13.09	-1.19	0.174
118.00	-53.98	-4.97	0.00	-171.32	0.00	171.32	2,057.25	1,028.62	2,352.21	1,177.85	13.34	-1.21	0.172
119.00	-53.57	-4.96	0.00	-166.34	0.00	166.34	2,041.07	1,020.54	2,315.17	1,159.31	13.60	-1.23	0.170
120.00	-53.15	-4.94	0.00	-161.39	0.00	161.39	2,024.90	1,012.45	2,278.43	1,140.91	13.86	-1.25	0.168
121.00	-52.74	-4.92	0.00	-156.45	0.00	156.45	2,008.73	1,004.37	2,241.98	1,122.66	14.12	-1.26	0.166
122.00	-44.80	-4.21	0.00	-151.53	0.00	151.53	1,992.56	996.28	2,205.83	1,104.55	14.39	-1.28	0.160
123.00	-44.47	-4.20	0.00	-147.32	0.00	147.32	1,976.39	988.20	2,169.97	1,086.60	14.66	-1.30	0.158
124.00	-44.14	-4.19	0.00	-143.13	0.00	143.13	1,960.22	980.11	2,134.40	1,068.79	14.93	-1.32	0.156
125.00	-43.81	-4.18	0.00	-138.94	0.00	138.94	1,944.05	972.03	2,099.13	1,051.12	15.21	-1.33	0.155
126.00	-43.48	-4.17	0.00	-134.76	0.00	134.76	1,927.88	963.94	2,064.15	1,033.61	15.49	-1.35	0.153
127.00	-43.15	-4.16	0.00	-130.60	0.00	130.60	1,911.71	955.86	2,029.46	1,016.24	15.77	-1.37	0.151
128.00	-42.83	-4.15	0.00	-126.44	0.00	126.44	1,895.54	947.77	1,995.07	999.02	16.06	-1.38	0.149
129.00	-42.51	-4.14	0.00	-122.29	0.00	122.29	1,879.37	939.68	1,960.98	981.95	16.35	-1.40	0.147
130.00	-42.18	-4.13	0.00	-118.15	0.00	118.15	1,863.20	931.60	1,927.17	965.02	16.65	-1.42	0.145
131.00	-41.86	-4.12	0.00	-114.02	0.00	114.02	1,847.03	923.51	1,893.66	948.24	16.95	-1.43	0.143
132.00	-41.55	-4.11	0.00	-109.91	0.00	109.91	1,830.86	915.43	1,860.45	931.61	17.25	-1.45	0.141
132.12	-41.51	-4.11	0.00	-109.41	0.00	109.41	1,828.92	914.46	1,856.49	929.63	17.28	-1.45	0.140
133.00	-41.17	-4.09	0.00	-105.80	0.00	105.80	1,814.69	907.34	1,827.53	915.12	17.55	-1.46	0.138
134.00	-40.80	-4.08	0.00	-101.71	0.00	101.71	1,798.52	899.26	1,794.90	898.78	17.86	-1.48	0.136
135.00	-40.42	-4.07	0.00	-97.63	0.00	97.63	1,782.35	891.17	1,762.57	882.59	18.17	-1.50	0.133
135.87	-40.10	-4.06	0.00	-94.09	0.00	94.09	993.95	496.97	1,000.68	501.09	18.45	-1.51	0.228
136.00	-40.06	-4.06	0.00	-93.56	0.00	93.56	993.20	496.60	998.76	500.12	18.49	-1.51	0.227
137.00	-30.36	-3.16	0.00	-89.50	0.00	89.50	987.45	493.72	984.00	492.73	18.81	-1.53	0.212
138.00	-30.09	-3.15	0.00	-86.34	0.00	86.34	981.64	490.82	969.28	485.36	19.13	-1.56	0.209
139.00	-29.82	-3.14	0.00	-83.18	0.00	83.18	975.77	487.88	954.62	478.02	19.46	-1.58	0.205
140.00	-27.92	-2.98	0.00	-80.04	0.00	80.04	969.84	484.92	940.01	470.70	19.79	-1.60	0.199
141.00	-27.66	-2.97	0.00	-77.06	0.00	77.06	963.86	481.93	925.45	463.41	20.13	-1.63	0.195
142.00	-27.39	-2.96	0.00	-74.08	0.00	74.08	957.82	478.91	910.95	456.15	20.48	-1.65	0.191
143.00	-27.13	-2.95	0.00	-71.12	0.00	71.12	951.72	475.86	896.50	448.92	20.82	-1.67	0.187
144.00	-26.87	-2.94	0.00	-68.17	0.00	68.17	945.56	472.78	882.11	441.71	21.18	-1.69	0.183
145.00	-26.61	-2.93	0.00	-65.23	0.00	65.23	939.35	469.68	867.78	434.53	21.53	-1.71	0.178
146.00	-23.25	-2.38	0.00	-62.19	0.00	62.19	933.08	466.54	853.51	427.39	21.89	-1.74	0.170
147.00	-23.00	-2.36	0.00	-59.81	0.00	59.81	926.76	463.38	839.30	420.27	22.26	-1.76	0.167
148.00	-22.75	-2.35	0.00	-57.45	0.00	57.45	920.37	460.19	825.16	413.19	22.63	-1.78	0.164
149.00	-22.50	-2.34	0.00	-55.10	0.00	55.10	913.93	456.97	811.08	406.14	23.01	-1.80	0.160
150.00	-22.25	-2.32	0.00	-52.77	0.00	52.77	907.44	453.72	797.07	399.13	23.38	-1.82	0.157
151.00	-22.01	-2.31	0.00	-50.44	0.00	50.44	900.88	450.44	783.12	392.14	23.77	-1.84	0.153
152.00	-21.43	-2.22	0.00	-48.13	0.00	48.13	894.27	447.14	769.25	385.20	24.15	-1.86	0.149
153.00	-21.19	-2.21	0.00	-45.91	0.00	45.91	887.60	443.80	755.45	378.29	24.55	-1.88	0.145
154.00	-20.95	-2.19	0.00	-43.71	0.00	43.71	880.88	440.44	741.72	371.41	24.94	-1.90	0.141
155.00	-20.71	-2.18	0.00	-41.51	0.00	41.51	874.09	437.05	728.06	364.57	25.34	-1.91	0.138
156.00	-20.47	-2.16	0.00	-39.33	0.00	39.33	867.26	433.63	714.49	357.77	25.74	-1.93	0.134

Site Number: 302506 Code: ANSI/TIA-222-G

Site Name: Winchester CT 3, CT Engineering Number: OAA692405_C3_01 1/5/2017 2:52:49 PM

Customer: AT&T Mobility

Load Case: 1.2D + 1.0Di + 1.0Wi 40 mph with 1.00 in Radial Ice 35 Iterations

Gust Response Factor : 1.10 Ice Dead Load Factor : 1.00 Wind Importance Factor : 1.00

Dead Load Factor : 1.20 Ice Importance Factor : 1.25

Wind Load Factor : 1.00

157.00	-20.24	-2.15	0.00	-37.17	0.00	37.17	860.36	430.18	700.99	351.01	26.15	-1.95	0.129
158.00	-20.00	-2.14	0.00	-35.02	0.00	35.02	853.41	426.70	687.57	344.29	26.56	-1.97	0.125
159.00	-19.77	-2.12	0.00	-32.88	0.00	32.88	846.39	423.20	674.23	337.61	26.97	-1.99	0.121
160.00	-19.53	-2.11	0.00	-30.76	0.00	30.76	839.33	419.66	660.97	330.98	27.39	-2.00	0.116
161.00	-19.30	-2.09	0.00	-28.66	0.00	28.66	832.20	416.10	647.80	324.38	27.81	-2.02	0.112
162.00	-19.07	-2.07	0.00	-26.57	0.00	26.57	825.02	412.51	634.71	317.83	28.24	-2.03	0.107
163.00	-14.41	-1.58	0.00	-24.50	0.00	24.50	817.78	408.89	621.71	311.32	28.66	-2.05	0.096
164.00	-14.26	-1.56	0.00	-22.93	0.00	22.93	810.15	405.07	608.54	304.72	29.09	-2.06	0.093
165.00	-14.12	-1.55	0.00	-21.36	0.00	21.36	800.44	400.22	593.98	297.43	29.53	-2.08	0.089
166.00	-13.98	-1.54	0.00	-19.81	0.00	19.81	790.74	395.37	579.60	290.23	29.96	-2.09	0.086
167.00	-13.83	-1.52	0.00	-18.28	0.00	18.28	781.04	390.52	565.39	283.11	30.40	-2.10	0.082
168.00	-13.69	-1.51	0.00	-16.76	0.00	16.76	771.34	385.67	551.35	276.09	30.84	-2.11	0.078
169.00	-13.55	-1.49	0.00	-15.25	0.00	15.25	761.63	380.82	537.50	269.15	31.29	-2.12	0.074
170.00	-13.41	-1.48	0.00	-13.76	0.00	13.76	751.93	375.97	523.82	262.30	31.73	-2.14	0.070
171.00	-13.28	-1.46	0.00	-12.28	0.00	12.28	742.23	371.11	510.32	255.54	32.18	-2.15	0.066
172.00	-13.14	-1.45	0.00	-10.81	0.00	10.81	732.53	366.26	496.99	248.86	32.63	-2.15	0.061
173.00	-13.01	-1.44	0.00	-9.36	0.00	9.36	722.82	361.41	483.84	242.28	33.08	-2.16	0.057
174.00	-8.49	-0.97	0.00	-7.93	0.00	7.93	713.12	356.56	470.86	235.78	33.54	-2.17	0.046
175.00	-8.36	-0.95	0.00	-6.96	0.00	6.96	703.42	351.71	458.07	229.37	33.99	-2.18	0.042
176.00	-8.23	-0.93	0.00	-6.01	0.00	6.01	693.72	346.86	445.44	223.05	34.45	-2.18	0.039
177.00	-8.10	-0.92	0.00	-5.08	0.00	5.08	684.02	342.01	433.00	216.82	34.91	-2.19	0.035
178.00	-7.97	-0.90	0.00	-4.16	0.00	4.16	674.31	337.16	420.73	210.68	35.37	-2.19	0.032
179.00	-7.85	-0.89	0.00	-3.25	0.00	3.25	664.61	332.31	408.64	204.62	35.83	-2.20	0.028
180.00	0.00	-0.59	0.00	-2.36	0.00	2.36	654.91	327.45	396.72	198.65	36.29	-2.20	0.012

Site Number:	302506	Code: ANSI/TIA-222-G	
Site Name:	Winchester CT 3, CT	Engineering Number: OAA692405_C3_01	1/5/2017 2:52:49 PM
Customer:	AT&T Mobility		

Load Case: 1.0D + 1.0W — Serviceability 60 mph — 33 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 1.00
Wind Load Factor : 1.00

Wind Importance Factor : 1.15

Shaft Segment Forces (Factored)

Seg Top Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf		Ice Thick (in)	Tributary (ft)	Ap (sf)	EPAs (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.70	7.048	7.753	240.29	0.650		0.000	0.00	0.000	0.00	11.2	0.0	0.0
1.00		1.00	0.70	7.048	7.753	239.79	0.650	*	0.000	1.00	4.454	2.90	22.4	0.0	246.7
2.00		1.00	0.70	7.048	7.753	238.79	0.650	*	0.000	1.00	4.436	2.88	22.3	0.0	245.6
3.00		1.00	0.70	7.048	7.753	237.79	0.650	*	0.000	1.00	4.417	2.87	22.2	0.0	244.6
4.00		1.00	0.70	7.048	7.753	236.79	0.650	*	0.000	1.00	4.399	2.86	22.1	0.0	243.5
5.00		1.00	0.70	7.048	7.753	235.79	0.650	*	0.000	1.00	4.380	2.85	22.0	0.0	242.5
6.00		1.00	0.70	7.048	7.753	234.79	0.650	*	0.000	1.00	4.362	2.83	21.9	0.0	241.5
7.00		1.00	0.70	7.048	7.753	233.79	0.650	*	0.000	1.00	4.343	2.82	21.8	0.0	240.4
8.00		1.00	0.70	7.048	7.753	232.79	0.650	*	0.000	1.00	4.324	2.81	21.7	0.0	239.4
9.00		1.00	0.70	7.048	7.753	231.79	0.650	*	0.000	1.00	4.306	2.80	21.7	0.0	238.4
10.00		1.00	0.70	7.048	7.753	230.79	0.650	*	0.000	1.00	4.287	2.79	21.6	0.0	237.3
11.00		1.00	0.70	7.048	7.753	229.79	0.650	*	0.000	1.00	4.269	2.77	21.5	0.0	236.3
12.00		1.00	0.70	7.048	7.753	228.79	0.650	*	0.000	1.00	4.250	2.76	21.4	0.0	235.3
13.00		1.00	0.70	7.048	7.753	227.79	0.650	*	0.000	1.00	4.232	2.75	21.3	0.0	234.2
14.00		1.00	0.70	7.048	7.753	226.79	0.650	*	0.000	1.00	4.213	2.74	21.2	0.0	233.2
15.00		1.00	0.70	7.048	7.753	225.79	0.650	*	0.000	1.00	4.194	2.73	21.1	0.0	232.1
16.00		1.00	0.70	7.048	7.753	224.79	0.650	*	0.000	1.00	4.176	2.71	21.0	0.0	231.1
17.00		1.00	0.70	7.048	7.753	223.79	0.650	*	0.000	1.00	4.157	2.70	20.9	0.0	230.1
18.00		1.00	0.70	7.048	7.753	222.79	0.650	*	0.000	1.00	4.139	2.69	20.8	0.0	229.0
19.00		1.00	0.70	7.048	7.753	221.79	0.650	*	0.000	1.00	4.120	2.68	20.7	0.0	228.0
20.00		1.00	0.70	7.048	7.753	220.79	0.650	*	0.000	1.00	4.102	2.67	20.6	0.0	227.0
21.00		1.00	0.70	7.048	7.753	219.79	0.650	*	0.000	1.00	4.083	2.65	20.5	0.0	225.9
22.00		1.00	0.70	7.048	7.753	218.80	0.650	*	0.000	1.00	4.064	2.64	20.4	0.0	224.9
23.00		1.00	0.70	7.048	7.753	217.80	0.650	*	0.000	1.00	4.046	2.63	20.3	0.0	223.8
24.00		1.00	0.70	7.048	7.753	216.80	0.650	*	0.000	1.00	4.027	2.62	20.2	0.0	222.8
25.00		1.00	0.70	7.048	7.753	215.80	0.650	*	0.000	1.00	4.009	2.61	20.2	0.0	221.8
26.00		1.00	0.70	7.048	7.753	214.80	0.650	*	0.000	1.00	3.990	2.59	20.1	0.0	220.7
27.00		1.00	0.70	7.048	7.753	213.80	0.650	*	0.000	1.00	3.972	2.58	20.0	0.0	219.7
28.00		1.00	0.70	7.048	7.753	212.80	0.650	*	0.000	1.00	3.953	2.57	19.9	0.0	218.7
29.00		1.00	0.70	7.048	7.753	211.80	0.650	*	0.000	1.00	3.934	2.56	19.8	0.0	217.6
30.00	Appertunance(s)	1.00	0.70	7.048	7.753	210.80	0.650	*	0.000	1.00	3.916	2.55	19.7	0.0	216.6
31.00		1.00	0.70	7.087	7.796	210.38	0.650	*	0.000	1.00	3.897	2.53	19.8	0.0	215.6
32.00		1.00	0.71	7.153	7.868	210.35	0.650	*	0.000	1.00	3.879	2.52	19.9	0.0	214.5
33.00		1.00	0.71	7.217	7.939	210.28	0.650	*	0.000	1.00	3.860	2.51	20.0	0.0	213.5
34.00		1.00	0.72	7.280	8.008	210.17	0.650	*	0.000	1.00	3.842	2.50	20.0	0.0	212.4
35.00		1.00	0.72	7.341	8.075	210.04	0.650	*	0.000	1.00	3.823	2.48	20.1	0.0	211.4
36.00		1.00	0.73	7.401	8.142	209.87	0.650	*	0.000	1.00	3.804	2.47	20.2	0.0	210.4
37.00		1.00	0.74	7.460	8.206	209.68	0.650	*	0.000	1.00	3.786	2.46	20.2	0.0	209.3
38.00		1.00	0.74	7.518	8.270	209.46	0.650	*	0.000	1.00	3.767	2.45	20.3	0.0	208.3
39.00		1.00	0.75	7.575	8.333	209.21	0.650	*	0.000	1.00	3.749	2.44	20.3	0.0	207.3
40.00		1.00	0.75	7.631	8.394	208.94	0.650	*	0.000	1.00	3.730	2.42	20.4	0.0	206.2
41.00		1.00	0.76	7.685	8.454	208.64	0.650	*	0.000	1.00	3.712	2.41	20.4	0.0	205.2
42.00		1.00	0.76	7.739	8.513	208.32	0.650	*	0.000	1.00	3.693	2.40	20.0	0.0	204.1
42.96	Bot - Section 2	1.00	0.77	7.791	8.570	207.99	0.650	*	0.000	0.96	3.515	2.28	10.2	0.0	194.3
43.00		1.00	0.77	7.817	8.599	207.81	0.650	*	0.000	0.04	0.162	0.11	10.9	0.0	16.5
44.00		1.00	0.77	7.844	8.628	207.62	0.650	*	0.000	1.00	3.719	2.42	20.9	0.0	378.6
45.00		1.00	0.78	7.895	8.685	207.24	0.650	*	0.000	1.00	3.701	2.41	20.9	0.0	376.6
46.00		1.00	0.78	7.945	8.740	206.83	0.650	*	0.000	1.00	3.682	2.39	29.8	0.0	374.7
47.00		1.00	0.79	7.995	8.794	206.41	1.200	*	0.000	1.00	3.664	4.40	38.7	0.0	372.8
48.00		1.00	0.79	8.044	8.848	205.97	1.200	*	0.000	1.00	3.645	4.37	38.7	0.0	370.9
49.00		1.00	0.80	8.092	8.901	205.52	1.200	*	0.000	1.00	3.627	4.35	20.1	0.0	368.9

Load Case: 1.0D + 1.0W Serviceability 60 mph 33 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 1.00
Wind Load Factor : 1.00

Wind Importance Factor : 1.15

49.04	Top - Section 1	1.00	0.80	8.116	8.928	205.27	1.200	* 0.000	0.04	0.144	0.17	10.9	0.0	14.7
50.00		1.00	0.80	8.140	8.954	208.70	0.650	* 0.000	0.96	3.464	2.25	29.5	0.0	164.3
51.00		1.00	0.81	8.186	9.004	208.23	1.200	* 0.000	1.00	3.589	4.31	38.8	0.0	170.3
52.00		1.00	0.81	8.232	9.055	207.74	1.200	* 0.000	1.00	3.571	4.28	38.8	0.0	169.4
53.00		1.00	0.82	8.277	9.105	207.23	1.200	* 0.000	1.00	3.552	4.26	38.8	0.0	168.5
54.00		1.00	0.82	8.322	9.154	206.70	1.200	* 0.000	1.00	3.534	4.24	38.8	0.0	167.6
55.00		1.00	0.83	8.366	9.202	206.16	1.200	* 0.000	1.00	3.515	4.22	38.8	0.0	166.7
56.00		1.00	0.83	8.409	9.250	205.60	1.200	* 0.000	1.00	3.497	4.20	38.8	0.0	165.8
57.00		1.00	0.83	8.452	9.298	205.03	1.200	* 0.000	1.00	3.478	4.17	38.8	0.0	164.9
58.00		1.00	0.84	8.495	9.344	204.45	1.200	* 0.000	1.00	3.459	4.15	38.8	0.0	164.1
59.00		1.00	0.84	8.537	9.390	203.85	1.200	* 0.000	1.00	3.441	4.13	38.8	0.0	163.2
60.00		1.00	0.85	8.578	9.436	203.24	1.200	* 0.000	1.00	3.422	4.11	38.7	0.0	162.3
61.00		1.00	0.85	8.619	9.481	202.62	1.200	* 0.000	1.00	3.404	4.08	38.7	0.0	161.4
62.00		1.00	0.86	8.660	9.526	201.99	1.200	* 0.000	1.00	3.385	4.06	38.7	0.0	160.5
63.00		1.00	0.86	8.700	9.570	201.35	1.200	* 0.000	1.00	3.367	4.04	38.6	0.0	159.6
64.00		1.00	0.86	8.739	9.613	200.69	1.200	* 0.000	1.00	3.348	4.02	38.6	0.0	158.7
65.00		1.00	0.87	8.778	9.656	200.02	1.200	* 0.000	1.00	3.329	4.00	38.6	0.0	157.8
66.00		1.00	0.87	8.817	9.699	199.35	1.200	* 0.000	1.00	3.311	3.97	38.5	0.0	156.9
67.00		1.00	0.88	8.855	9.741	198.66	1.200	* 0.000	1.00	3.292	3.95	38.5	0.0	156.1
68.00		1.00	0.88	8.893	9.782	197.96	1.200	* 0.000	1.00	3.274	3.93	38.4	0.0	155.2
69.00		1.00	0.88	8.931	9.824	197.25	1.200	* 0.000	1.00	3.255	3.91	38.3	0.0	154.3
70.00		1.00	0.89	8.968	9.864	196.53	1.200	* 0.000	1.00	3.237	3.88	38.3	0.0	153.4
71.00		1.00	0.89	9.004	9.905	195.80	1.200	* 0.000	1.00	3.218	3.86	38.2	0.0	152.5
72.00		1.00	0.89	9.041	9.945	195.06	1.200	* 0.000	1.00	3.199	3.84	38.1	0.0	151.6
73.00		1.00	0.90	9.077	9.984	194.32	1.200	* 0.000	1.00	3.181	3.82	38.1	0.0	150.7
74.00		1.00	0.90	9.112	10.02	193.56	1.200	* 0.000	1.00	3.162	3.79	38.0	0.0	149.8
75.00		1.00	0.90	9.147	10.06	192.80	1.200	* 0.000	1.00	3.144	3.77	37.9	0.0	148.9
76.00		1.00	0.91	9.182	10.10	192.02	1.200	* 0.000	1.00	3.125	3.75	37.8	0.0	148.1
77.00		1.00	0.91	9.217	10.13	191.24	1.200	* 0.000	1.00	3.107	3.73	37.8	0.0	147.2
78.00		1.00	0.91	9.251	10.17	190.45	1.200	* 0.000	1.00	3.088	3.71	37.7	0.0	146.3
79.00	Appertunance(s)	1.00	0.92	9.285	10.21	189.65	1.200	* 0.000	1.00	3.069	3.68	37.6	0.0	145.4
80.00	Appertunance(s)	1.00	0.92	9.319	10.25	188.85	1.200	* 0.000	1.00	3.051	3.66	37.5	0.0	144.5
81.00		1.00	0.92	9.352	10.28	188.03	1.200	* 0.000	1.00	3.032	3.64	37.4	0.0	143.6
82.00		1.00	0.93	9.385	10.32	187.21	1.200	* 0.000	1.00	3.014	3.62	37.3	0.0	142.7
83.00		1.00	0.93	9.418	10.36	186.38	1.200	* 0.000	1.00	2.995	3.59	37.2	0.0	141.8
84.00		1.00	0.93	9.450	10.39	185.55	1.200	* 0.000	1.00	2.977	3.57	37.1	0.0	140.9
85.00		1.00	0.94	9.483	10.43	184.70	1.200	* 0.000	1.00	2.958	3.55	37.0	0.0	140.1
86.00		1.00	0.94	9.514	10.46	183.85	1.200	* 0.000	1.00	2.939	3.53	36.9	0.0	139.2
87.00		1.00	0.94	9.546	10.50	182.99	1.200	* 0.000	1.00	2.921	3.51	28.3	0.0	138.3
87.54	Bot - Section 3	1.00	0.95	9.570	10.52	182.33	1.200	* 0.000	0.54	1.569	1.88	18.5	0.0	74.3
88.00		1.00	0.95	9.586	10.54	181.89	1.200	* 0.000	0.46	1.357	1.63	27.2	0.0	116.8
89.00		1.00	0.95	9.609	10.57	181.26	1.200	* 0.000	1.00	2.937	3.52	37.2	0.0	252.6
90.00		1.00	0.95	9.640	10.60	180.38	1.200	* 0.000	1.00	2.918	3.50	37.1	0.0	250.9
91.00		1.00	0.96	9.670	10.63	179.50	1.200	* 0.000	1.00	2.899	3.48	37.0	0.0	249.3
92.00		1.00	0.96	9.701	10.67	178.60	1.200	* 0.000	1.00	2.881	3.46	26.8	0.0	247.7
92.46	Top - Section 2	1.00	0.96	9.723	10.69	177.95	1.200	* 0.000	0.46	1.309	1.57	18.4	0.0	112.5
93.00		1.00	0.96	9.738	10.71	180.85	1.200	* 0.000	0.54	1.553	1.86	28.3	0.0	61.4
94.00		1.00	0.96	9.761	10.73	180.15	1.200	* 0.000	1.00	2.844	3.41	36.6	0.0	112.4
95.00		1.00	0.97	9.790	10.77	179.25	1.200	* 0.000	1.00	2.825	3.39	36.4	0.0	111.6
96.00	Appertunance(s)	1.00	0.97	9.820	10.80	178.34	1.200	* 0.000	1.00	2.807	3.37	36.3	0.0	110.9
97.00		1.00	0.97	9.849	10.83	177.42	1.200	* 0.000	1.00	2.788	3.35	36.2	0.0	110.1
98.00		1.00	0.98	9.878	10.86	176.50	1.200	* 0.000	1.00	2.770	3.32	36.0	0.0	109.4
99.00		1.00	0.98	9.907	10.89	175.57	1.200	* 0.000	1.00	2.751	3.30	35.9	0.0	108.7
100.0		1.00	0.98	9.936	10.92	174.64	1.200	* 0.000	1.00	2.732	3.28	35.8	0.0	107.9
101.0		1.00	0.99	9.964	10.96	173.70	1.200	* 0.000	1.00	2.714	3.26	35.6	0.0	107.2
102.0		1.00	0.99	9.992	10.99	172.76	1.200	* 0.000	1.00	2.695	3.23	35.5	0.0	106.4
103.0		1.00	0.99	10.020	11.02	171.81	1.200	* 0.000	1.00	2.677	3.21	35.3	0.0	105.7

Load Case: 1.0D + 1.0W Serviceability 60 mph 33 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 1.00
Wind Load Factor : 1.00

Wind Importance Factor : 1.15

104.0		1.00	0.99	10.048	11.05	170.85	1.200	*	0.000	1.00	2.658	3.19	26.4	0.0	105.0
104.5	Reinf. Top	1.00	1.00	10.069	11.07	170.13	1.200	*	0.000	0.50	1.322	1.59	17.6	0.0	52.2
105.0		1.00	1.00	10.083	11.09	169.65	1.200	*	0.000	0.50	1.317	1.58	26.2	0.0	52.0
106.0		1.00	1.00	10.103	11.11	168.93	1.200	*	0.000	1.00	2.621	3.15	34.9	0.0	103.5
107.0		1.00	1.00	10.131	11.14	167.96	1.200	*	0.000	1.00	2.602	3.12	34.7	0.0	102.7
108.0		1.00	1.00	10.158	11.17	166.98	1.200	*	0.000	1.00	2.584	3.10	34.6	0.0	102.0
109.0		1.00	1.01	10.185	11.20	166.00	1.200	*	0.000	1.00	2.565	3.08	34.4	0.0	101.3
110.0		1.00	1.01	10.211	11.23	165.01	1.200	*	0.000	1.00	2.547	3.06	34.2	0.0	100.5
111.0	Appertunance(s)	1.00	1.01	10.238	11.26	164.02	1.200	*	0.000	1.00	2.528	3.03	34.1	0.0	99.8
112.0		1.00	1.01	10.264	11.29	163.03	1.200	*	0.000	1.00	2.510	3.01	33.9	0.0	99.0
113.0	Appertunance(s)	1.00	1.02	10.291	11.32	162.03	1.200	*	0.000	1.00	2.491	2.99	33.8	0.0	98.3
114.0		1.00	1.02	10.317	11.34	161.02	1.200	*	0.000	1.00	2.472	2.97	33.6	0.0	97.6
115.0		1.00	1.02	10.342	11.37	160.02	1.200	*	0.000	1.00	2.454	2.94	33.4	0.0	96.8
116.0		1.00	1.03	10.368	11.40	159.00	1.200	*	0.000	1.00	2.435	2.92	33.2	0.0	96.1
117.0		1.00	1.03	10.394	11.43	157.98	1.200	*	0.000	1.00	2.417	2.90	33.1	0.0	95.3
118.0		1.00	1.03	10.419	11.46	156.96	1.200	*	0.000	1.00	2.398	2.88	32.9	0.0	94.6
119.0		1.00	1.03	10.444	11.48	155.93	1.200	*	0.000	1.00	2.380	2.86	32.7	0.0	93.9
120.0		1.00	1.04	10.470	11.51	154.90	1.200	*	0.000	1.00	2.361	2.83	32.5	0.0	93.1
121.0		1.00	1.04	10.494	11.54	153.87	1.200	*	0.000	1.00	2.342	2.81	32.4	0.0	92.4
122.0	Appertunance(s)	1.00	1.04	10.519	11.57	152.83	1.200	*	0.000	1.00	2.324	2.79	24.8	0.0	91.6
123.0		1.00	1.04	10.544	11.59	151.79	0.650	*	0.000	1.00	2.305	1.50	17.3	0.0	90.9
124.0		1.00	1.05	10.568	11.62	150.74	0.650	*	0.000	1.00	2.287	1.49	17.2	0.0	90.2
125.0		1.00	1.05	10.593	11.65	149.69	0.650	*	0.000	1.00	2.268	1.47	17.1	0.0	89.4
126.0		1.00	1.05	10.617	11.67	148.63	0.650	*	0.000	1.00	2.250	1.46	17.0	0.0	88.7
127.0		1.00	1.05	10.641	11.70	147.57	0.650	*	0.000	1.00	2.231	1.45	16.9	0.0	87.9
128.0		1.00	1.05	10.665	11.73	146.51	0.650	*	0.000	1.00	2.212	1.44	16.8	0.0	87.2
129.0		1.00	1.06	10.689	11.75	145.44	0.650	*	0.000	1.00	2.194	1.43	16.7	0.0	86.4
130.0		1.00	1.06	10.713	11.78	144.37	0.650	*	0.000	1.00	2.175	1.41	16.6	0.0	85.7
131.0		1.00	1.06	10.736	11.81	143.29	0.650	*	0.000	1.00	2.157	1.40	16.5	0.0	85.0
132.0		1.00	1.06	10.760	11.83	142.21	0.650	*	0.000	1.00	2.138	1.39	9.2	0.0	84.2
132.1	Bot - Section 4	1.00	1.07	10.773	11.85	141.61	0.650	*	0.000	0.12	0.255	0.17	8.3	0.0	10.0
133.0		1.00	1.07	10.784	11.86	141.07	0.650	*	0.000	0.88	1.893	1.23	15.5	0.0	118.4
134.0		1.00	1.07	10.806	11.88	140.05	0.650	*	0.000	1.00	2.133	1.39	16.4	0.0	133.4
135.0		1.00	1.07	10.829	11.91	138.96	0.650	*	0.000	1.00	2.114	1.37	15.3	0.0	132.2
135.8	Top - Section 3	1.00	1.07	10.851	11.93	137.93	0.650	*	0.000	0.87	1.824	1.19	8.1	0.0	114.0
136.0		1.00	1.07	10.862	11.94	139.51	0.650	*	0.000	0.13	0.272	0.18	9.1	0.0	6.5
137.0	Appertunance(s)	1.00	1.08	10.875	11.96	138.89	0.650	*	0.000	1.00	2.077	1.35	16.1	0.0	49.3
138.0		1.00	1.08	10.898	11.98	137.79	0.650	*	0.000	1.00	2.058	1.34	16.0	0.0	48.9
139.0		1.00	1.08	10.920	12.01	136.69	0.650	*	0.000	1.00	2.040	1.33	15.9	0.0	48.4
140.0	Appertunance(s)	1.00	1.08	10.943	12.03	135.58	0.650	*	0.000	1.00	2.021	1.31	15.8	0.0	48.0
141.0		1.00	1.08	10.965	12.06	134.47	0.650	*	0.000	1.00	2.003	1.30	15.6	0.0	47.5
142.0		1.00	1.09	10.987	12.08	133.36	0.650	*	0.000	1.00	1.984	1.29	15.5	0.0	47.1
143.0		1.00	1.09	11.010	12.11	132.25	0.650	*	0.000	1.00	1.966	1.28	15.4	0.0	46.7
144.0		1.00	1.09	11.032	12.13	131.13	0.650	*	0.000	1.00	1.947	1.27	15.3	0.0	46.2
145.0		1.00	1.09	11.053	12.15	130.01	0.650	*	0.000	1.00	1.928	1.25	15.2	0.0	45.8
146.0	Appertunance(s)	1.00	1.10	11.075	12.18	128.88	0.650	*	0.000	1.00	1.910	1.24	15.1	0.0	45.3
147.0		1.00	1.10	11.097	12.20	127.75	0.650	*	0.000	1.00	1.891	1.23	14.9	0.0	44.9
148.0		1.00	1.10	11.119	12.23	126.62	0.650	*	0.000	1.00	1.873	1.22	14.8	0.0	44.4
149.0		1.00	1.10	11.140	12.25	125.49	0.650	*	0.000	1.00	1.854	1.21	14.7	0.0	44.0
150.0		1.00	1.10	11.161	12.27	124.35	0.650	*	0.000	1.00	1.836	1.19	14.6	0.0	43.5
151.0		1.00	1.11	11.183	12.30	123.21	0.650	*	0.000	1.00	1.817	1.18	14.5	0.0	43.1
152.0	Appertunance(s)	1.00	1.11	11.204	12.32	122.07	0.650	*	0.000	1.00	1.799	1.17	14.3	0.0	42.7
153.0		1.00	1.11	11.225	12.34	120.92	0.650	*	0.000	1.00	1.780	1.16	14.2	0.0	42.2
154.0		1.00	1.11	11.246	12.37	119.77	0.650	*	0.000	1.00	1.761	1.14	14.1	0.0	41.8
155.0		1.00	1.11	11.267	12.39	118.62	0.650	*	0.000	1.00	1.743	1.13	14.0	0.0	41.3
156.0		1.00	1.12	11.288	12.41	117.46	0.650	*	0.000	1.00	1.724	1.12	13.9	0.0	40.9
157.0		1.00	1.12	11.308	12.43	116.30	0.650	*	0.000	1.00	1.706	1.11	13.7	0.0	40.4

Load Case: 1.0D + 1.0W Serviceability 60 mph 33 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 1.00
Wind Load Factor : 1.00

Wind Importance Factor : 1.15

158.0		1.00	1.12	11.329	12.46	115.14	0.650	*	0.000	1.00	1.687	1.10	13.6	0.0	40.0
159.0		1.00	1.12	11.349	12.48	113.98	0.650	*	0.000	1.00	1.669	1.08	13.5	0.0	39.5
160.0		1.00	1.12	11.370	12.50	112.81	0.650	*	0.000	1.00	1.650	1.07	19.0	0.0	39.1
161.0		1.00	1.13	11.390	12.52	111.64	1.200	*	0.000	1.00	1.631	1.96	24.4	0.0	38.7
162.0		1.00	1.13	11.410	12.55	110.47	1.200	*	0.000	1.00	1.613	1.94	24.2	0.0	38.2
163.0	Appertunance(s)	1.00	1.13	11.431	12.57	109.29	1.200	*	0.000	1.00	1.594	1.91	18.5	0.0	37.8
164.0		1.00	1.13	11.451	12.59	108.11	0.650		0.000	1.00	1.576	1.02	12.8	0.0	37.3
165.0		1.00	1.13	11.471	12.61	106.93	0.650		0.000	1.00	1.557	1.01	12.7	0.0	36.9
166.0		1.00	1.14	11.490	12.63	105.75	0.650		0.000	1.00	1.539	1.00	12.6	0.0	36.4
167.0		1.00	1.14	11.510	12.66	104.56	0.650		0.000	1.00	1.520	0.99	12.4	0.0	36.0
168.0		1.00	1.14	11.530	12.68	103.37	0.650		0.000	1.00	1.501	0.98	12.3	0.0	35.6
169.0		1.00	1.14	11.550	12.70	102.18	0.650		0.000	1.00	1.483	0.96	12.2	0.0	35.1
170.0		1.00	1.14	11.569	12.72	100.99	0.650		0.000	1.00	1.464	0.95	12.0	0.0	34.7
171.0		1.00	1.15	11.589	12.74	99.795	0.650		0.000	1.00	1.446	0.94	11.9	0.0	34.2
172.0		1.00	1.15	11.608	12.76	98.595	0.650		0.000	1.00	1.427	0.93	11.8	0.0	33.8
173.0		1.00	1.15	11.627	12.79	97.393	0.650		0.000	1.00	1.409	0.92	11.6	0.0	33.3
174.0	Appertunance(s)	1.00	1.15	11.646	12.81	96.189	0.650		0.000	1.00	1.390	0.90	11.5	0.0	32.9
175.0		1.00	1.15	11.666	12.83	94.982	0.650		0.000	1.00	1.371	0.89	11.4	0.0	32.4
176.0		1.00	1.16	11.685	12.85	93.772	0.650		0.000	1.00	1.353	0.88	11.2	0.0	32.0
177.0		1.00	1.16	11.704	12.87	92.560	0.650		0.000	1.00	1.334	0.87	11.1	0.0	31.6
178.0		1.00	1.16	11.723	12.89	91.346	0.650		0.000	1.00	1.316	0.86	11.0	0.0	31.1
179.0		1.00	1.16	11.741	12.91	90.129	0.650		0.000	1.00	1.297	0.84	10.8	0.0	30.7
180.0	Appertunance(s)	1.00	1.16	11.760	12.93	88.910	0.650		0.000	1.00	1.279	0.83	5.4	0.0	30.2
* = Cf Adjusted By Linear Load Ra Effect							Totals:			180.00			4,596.8	0.0	25,271.1

Site Number: 302506 Code: ANSI/TIA-222-G

Site Name: Winchester CT 3, CT Engineering Number: OAA692405_C3_01 1/5/2017 2:53:07 PM

Customer: AT&T Mobility

Load Case: 1.0D + 1.0W Serviceability 60 mph 33 Iterations

Gust Response Factor : 1.10 Wind Importance Factor : 1.15

Dead Load Factor : 1.00

Wind Load Factor : 1.00

Applied Segment Forces Summary

		Shaft Forces		Discrete Forces				Linear Forces		Sum of Forces			
Seg Elev (ft)	Description	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		11.2	0.0					0.0	0.0	11.2	0.0	0.0	0.0
1.00		22.4	246.7					0.0	174.8	22.4	421.5	0.0	0.0
2.00		22.3	245.6					0.0	174.8	22.3	420.4	0.0	0.0
3.00		22.2	244.6					0.0	174.8	22.2	419.4	0.0	0.0
4.00		22.1	243.5					0.0	174.8	22.1	418.4	0.0	0.0
5.00		22.0	242.5					0.0	174.8	22.0	417.3	0.0	0.0
6.00		21.9	241.5					0.0	174.8	21.9	416.3	0.0	0.0
7.00		21.8	240.4					0.0	174.8	21.8	415.3	0.0	0.0
8.00		21.7	239.4					0.0	174.8	21.7	414.2	0.0	0.0
9.00		21.7	238.4					0.0	174.8	21.7	413.2	0.0	0.0
10.00		21.6	237.3					0.0	174.8	21.6	412.2	0.0	0.0
11.00		21.5	236.3					0.0	174.8	21.5	411.1	0.0	0.0
12.00		21.4	235.3					0.0	174.8	21.4	410.1	0.0	0.0
13.00		21.3	234.2					0.0	174.8	21.3	409.0	0.0	0.0
14.00		21.2	233.2					0.0	174.8	21.2	408.0	0.0	0.0
15.00		21.1	232.1					0.0	174.8	21.1	407.0	0.0	0.0
16.00		21.0	231.1					0.0	174.8	21.0	405.9	0.0	0.0
17.00		20.9	230.1					0.0	174.8	20.9	404.9	0.0	0.0
18.00		20.8	229.0					0.0	174.8	20.8	403.9	0.0	0.0
19.00		20.7	228.0					0.0	174.8	20.7	402.8	0.0	0.0
20.00		20.6	227.0					0.0	174.8	20.6	401.8	0.0	0.0
21.00		20.5	225.9					0.0	174.8	20.5	400.7	0.0	0.0
22.00		20.4	224.9					0.0	174.8	20.4	399.7	0.0	0.0
23.00		20.3	223.8					0.0	174.8	20.3	398.7	0.0	0.0
24.00		20.2	222.8					0.0	174.8	20.2	397.6	0.0	0.0
25.00		20.2	221.8					0.0	174.8	20.2	396.6	0.0	0.0
26.00		20.1	220.7					0.0	174.8	20.1	395.6	0.0	0.0
27.00		20.0	219.7					0.0	174.8	20.0	394.5	0.0	0.0
28.00		19.9	218.7					0.0	174.8	19.9	393.5	0.0	0.0
29.00		19.8	217.6					0.0	174.8	19.8	392.4	0.0	0.0
30.00	Appertunance(s)	19.7	216.6	7.8	0.0	0.0	10.0	0.0	174.8	27.5	401.4	0.0	0.0
31.00		19.8	215.6					0.0	174.5	19.8	390.0	0.0	0.0
32.00		19.9	214.5					0.0	174.5	19.9	389.0	0.0	0.0
33.00		20.0	213.5					0.0	174.5	20.0	388.0	0.0	0.0
34.00		20.0	212.4					0.0	174.5	20.0	386.9	0.0	0.0
35.00		20.1	211.4					0.0	174.5	20.1	385.9	0.0	0.0
36.00		20.2	210.4					0.0	174.5	20.2	384.9	0.0	0.0
37.00		20.2	209.3					0.0	174.5	20.2	383.8	0.0	0.0
38.00		20.3	208.3					0.0	174.5	20.3	382.8	0.0	0.0
39.00		20.3	207.3					0.0	174.5	20.3	381.8	0.0	0.0
40.00		20.4	206.2					0.0	174.5	20.4	380.7	0.0	0.0
41.00		20.4	205.2					0.0	174.5	20.4	379.7	0.0	0.0
42.00		20.0	204.1					0.0	174.5	20.0	378.6	0.0	0.0
42.96	Bot - Section 2	10.2	194.3					0.0	166.9	10.2	361.2	0.0	0.0
43.00		10.9	16.5					0.0	7.6	10.9	24.1	0.0	0.0
44.00		20.9	378.6					0.0	174.5	20.9	553.1	0.0	0.0
45.00		20.9	376.6					0.0	174.5	20.9	551.1	0.0	0.0
46.00		29.8	374.7					0.0	174.5	29.8	549.2	0.0	0.0
47.00		38.7	372.8					7.6	174.5	46.3	547.3	0.0	0.0

Load Case: 1.0D + 1.0W Serviceability 60 mph 33 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 1.00
Wind Load Factor : 1.00

Wind Importance Factor : 1.15

48.00		38.7	370.9					7.7	174.5	46.4	545.4	0.0	0.0
49.00		20.1	368.9					7.7	174.5	27.8	543.4	0.0	0.0
49.04	Top - Section 1	10.9	14.7					0.3	7.0	11.2	21.6	0.0	0.0
50.00		29.5	164.3					0.0	167.5	29.5	331.8	0.0	0.0
51.00		38.8	170.3					7.8	174.5	46.6	344.8	0.0	0.0
52.00		38.8	169.4					7.8	174.5	46.6	343.9	0.0	0.0
53.00		38.8	168.5					7.9	174.5	46.7	343.0	0.0	0.0
54.00		38.8	167.6					7.9	174.5	46.7	342.1	0.0	0.0
55.00		38.8	166.7					8.0	174.5	46.8	341.2	0.0	0.0
56.00		38.8	165.8					8.0	174.5	46.8	340.3	0.0	0.0
57.00		38.8	164.9					8.0	174.5	46.8	339.4	0.0	0.0
58.00		38.8	164.1					8.1	174.5	46.9	338.5	0.0	0.0
59.00		38.8	163.2					8.1	174.5	46.9	337.7	0.0	0.0
60.00		38.7	162.3					8.2	174.5	46.9	336.8	0.0	0.0
61.00		38.7	161.4					8.2	174.5	46.9	335.9	0.0	0.0
62.00		38.7	160.5					8.2	174.5	46.9	335.0	0.0	0.0
63.00		38.6	159.6					8.3	174.5	46.9	334.1	0.0	0.0
64.00		38.6	158.7					8.3	174.5	46.9	333.2	0.0	0.0
65.00		38.6	157.8					8.4	174.5	46.9	332.3	0.0	0.0
66.00		38.5	156.9					8.4	174.5	46.9	331.4	0.0	0.0
67.00		38.5	156.1					8.4	174.5	46.9	330.5	0.0	0.0
68.00		38.4	155.2					8.5	174.5	46.9	329.7	0.0	0.0
69.00		38.3	154.3					8.5	174.5	46.8	328.8	0.0	0.0
70.00		38.3	153.4					8.5	174.5	46.8	327.9	0.0	0.0
71.00		38.2	152.5					8.6	174.5	46.8	327.0	0.0	0.0
72.00		38.1	151.6					8.6	174.5	46.7	326.1	0.0	0.0
73.00		38.1	150.7					8.6	174.5	46.7	325.2	0.0	0.0
74.00		38.0	149.8					8.7	174.5	46.7	324.3	0.0	0.0
75.00		37.9	148.9					8.7	174.5	46.6	323.4	0.0	0.0
76.00		37.8	148.1					8.7	174.5	46.6	322.5	0.0	0.0
77.00		37.8	147.2					8.8	174.5	46.5	321.7	0.0	0.0
78.00		37.7	146.3					8.8	174.5	46.5	320.8	0.0	0.0
79.00	Appertunance(s)	37.6	145.4	0.9	0.0	0.0	0.6	8.8	174.5	47.3	320.5	0.0	0.0
80.00	Appertunance(s)	37.5	144.5	483.2	0.0	0.0	278.0	8.9	174.3	529.5	596.8	0.0	0.0
81.00		37.4	143.6					8.9	173.8	46.3	317.4	0.0	0.0
82.00		37.3	142.7					8.9	173.8	46.2	316.6	0.0	0.0
83.00		37.2	141.8					9.0	173.8	46.1	315.7	0.0	0.0
84.00		37.1	140.9					9.0	173.8	46.1	314.8	0.0	0.0
85.00		37.0	140.1					9.0	173.8	46.0	313.9	0.0	0.0
86.00		36.9	139.2					9.1	173.8	45.9	313.0	0.0	0.0
87.00		28.3	138.3					9.1	173.8	37.4	312.1	0.0	0.0
87.54	Bot - Section 3	18.5	74.3					4.9	93.9	23.4	168.1	0.0	0.0
88.00		27.2	116.8					4.2	80.0	31.4	196.7	0.0	0.0
89.00		37.2	252.6					9.1	173.8	46.3	426.4	0.0	0.0
90.00		37.1	250.9					9.2	173.8	46.2	424.8	0.0	0.0
91.00		37.0	249.3					9.2	173.8	46.2	423.1	0.0	0.0
92.00		26.8	247.7					9.2	173.8	36.1	421.5	0.0	0.0
92.46	Top - Section 2	18.4	112.5					4.2	79.4	22.6	191.9	0.0	0.0
93.00		28.3	61.4					5.0	94.5	33.3	155.8	0.0	0.0
94.00		36.6	112.4					9.3	173.8	45.9	286.2	0.0	0.0
95.00		36.4	111.6					9.3	173.8	45.8	285.5	0.0	0.0
96.00	Appertunance(s)	36.3	110.9	157.4	0.0	-31.6	486.6	9.3	173.8	203.1	771.3	0.0	0.0
97.00		36.2	110.1					9.4	173.0	45.6	283.2	0.0	0.0
98.00		36.0	109.4					9.4	173.0	45.4	282.4	0.0	0.0
99.00		35.9	108.7					9.4	173.0	45.3	281.7	0.0	0.0
100.00		35.8	107.9					9.5	173.0	45.2	280.9	0.0	0.0
101.00		35.6	107.2					9.5	173.0	45.1	280.2	0.0	0.0

Load Case: 1.0D + 1.0W Serviceability 60 mph 33 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 1.00
Wind Load Factor : 1.00

Wind Importance Factor : 1.15

102.00		35.5	106.4					9.5	173.0	45.0	279.5	0.0	0.0
103.00		35.3	105.7					9.5	173.0	44.9	278.7	0.0	0.0
104.00		26.4	105.0					9.6	173.0	36.0	278.0	0.0	0.0
104.50	Reinf. Top	17.6	52.2					4.8	86.5	22.3	138.7	0.0	0.0
105.00		26.2	52.0					4.8	53.1	31.0	105.1	0.0	0.0
106.00		34.9	103.5					9.6	106.2	44.5	209.7	0.0	0.0
107.00		34.7	102.7					9.6	106.2	44.4	209.0	0.0	0.0
108.00		34.6	102.0					9.7	106.2	44.2	208.2	0.0	0.0
109.00		34.4	101.3					9.7	106.2	44.1	207.5	0.0	0.0
110.00		34.2	100.5					9.7	106.2	44.0	206.7	0.0	0.0
111.00	Appertunance(s)	34.1	99.8	118.7	0.0	0.0	79.2	9.7	106.2	162.5	285.2	0.0	0.0
112.00		33.9	99.0					9.8	101.3	43.7	200.3	0.0	0.0
113.00	Appertunance(s)	33.8	98.3	536.6	0.0	0.0	1,668.0	12.0	79.8	582.4	1,846.1	0.0	0.0
114.00		33.6	97.6					9.0	50.7	42.6	148.3	0.0	0.0
115.00		33.4	96.8					9.0	50.7	42.4	147.6	0.0	0.0
116.00		33.2	96.1					9.0	50.7	42.3	146.8	0.0	0.0
117.00		33.1	95.3					9.1	50.7	42.1	146.1	0.0	0.0
118.00		32.9	94.6					9.1	50.7	42.0	145.3	0.0	0.0
119.00		32.7	93.9					9.1	50.7	41.8	144.6	0.0	0.0
120.00		32.5	93.1					9.1	50.7	41.7	143.9	0.0	0.0
121.00		32.4	92.4					9.1	50.7	41.5	143.1	0.0	0.0
122.00	Appertunance(s)	24.8	91.6	920.6	0.0	0.0	1,773.1	9.2	50.7	954.6	1,915.5	0.0	0.0
123.00		17.3	90.9					0.0	40.9	17.3	131.8	0.0	0.0
124.00		17.2	90.2					0.0	40.9	17.2	131.1	0.0	0.0
125.00		17.1	89.4					0.0	40.9	17.1	130.3	0.0	0.0
126.00		17.0	88.7					0.0	40.9	17.0	129.6	0.0	0.0
127.00		16.9	87.9					0.0	40.9	16.9	128.8	0.0	0.0
128.00		16.8	87.2					0.0	40.9	16.8	128.1	0.0	0.0
129.00		16.7	86.4					0.0	40.9	16.7	127.4	0.0	0.0
130.00		16.6	85.7					0.0	40.9	16.6	126.6	0.0	0.0
131.00		16.5	85.0					0.0	40.9	16.5	125.9	0.0	0.0
132.00		9.2	84.2					0.0	40.9	9.2	125.1	0.0	0.0
132.12	Bot - Section 4	8.3	10.0					0.0	4.9	8.3	14.9	0.0	0.0
133.00		15.5	118.4					0.0	36.0	15.5	154.4	0.0	0.0
134.00		16.4	133.4					0.0	40.9	16.4	174.3	0.0	0.0
135.00		15.3	132.2					0.0	40.9	15.3	173.1	0.0	0.0
135.87	Top - Section 3	8.1	114.0					0.0	35.6	8.1	149.6	0.0	0.0
136.00		9.1	6.5					0.0	5.3	9.1	11.8	0.0	0.0
137.00	Appertunance(s)	16.1	49.3	1,014.5	0.0	0.0	3,015.8	0.0	40.9	1,030.6	3,106.0	0.0	0.0
138.00		16.0	48.9					0.0	37.2	16.0	86.1	0.0	0.0
139.00		15.9	48.4					0.0	37.2	15.9	85.6	0.0	0.0
140.00	Appertunance(s)	15.8	48.0	144.7	0.0	-15.7	505.0	0.0	37.2	160.4	590.2	0.0	0.0
141.00		15.6	47.5					0.0	36.6	15.6	84.1	0.0	0.0
142.00		15.5	47.1					0.0	36.6	15.5	83.7	0.0	0.0
143.00		15.4	46.7					0.0	36.6	15.4	83.2	0.0	0.0
144.00		15.3	46.2					0.0	36.6	15.3	82.8	0.0	0.0
145.00		15.2	45.8					0.0	36.6	15.2	82.3	0.0	0.0
146.00	Appertunance(s)	15.1	45.3	447.6	0.0	128.1	716.0	0.0	36.6	462.6	797.9	0.0	0.0
147.00		14.9	44.9					0.0	30.7	14.9	75.6	0.0	0.0
148.00		14.8	44.4					0.0	30.7	14.8	75.1	0.0	0.0
149.00		14.7	44.0					0.0	30.7	14.7	74.7	0.0	0.0
150.00		14.6	43.5					0.0	30.7	14.6	74.2	0.0	0.0
151.00		14.5	43.1					0.0	30.7	14.5	73.8	0.0	0.0
152.00	Appertunance(s)	14.3	42.7	56.5	0.0	0.0	158.3	0.0	30.7	70.8	231.6	0.0	0.0
153.00		14.2	42.2					0.0	29.9	14.2	72.1	0.0	0.0
154.00		14.1	41.8					0.0	29.9	14.1	71.6	0.0	0.0
155.00		14.0	41.3					0.0	29.9	14.0	71.2	0.0	0.0

Load Case: 1.0D + 1.0W Serviceability 60 mph 33 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 1.00
Wind Load Factor : 1.00

Wind Importance Factor : 1.15

156.00		13.9	40.9					0.0	29.9	13.9	70.7	0.0	0.0
157.00		13.7	40.4					0.0	29.9	13.7	70.3	0.0	0.0
158.00		13.6	40.0					0.0	29.9	13.6	69.9	0.0	0.0
159.00		13.5	39.5					0.0	29.9	13.5	69.4	0.0	0.0
160.00		19.0	39.1					0.0	29.9	19.0	69.0	0.0	0.0
161.00		24.4	38.7					5.0	29.9	29.4	68.5	0.0	0.0
162.00		24.2	38.2					5.0	29.9	29.1	68.1	0.0	0.0
163.00	Appertunance(s)	18.5	37.8	448.7	0.0	0.0	1,276.5	5.0	29.9	472.2	1,344.1	0.0	0.0
164.00		12.8	37.3					0.0	19.0	12.8	56.3	0.0	0.0
165.00		12.7	36.9					0.0	19.0	12.7	55.9	0.0	0.0
166.00		12.6	36.4					0.0	19.0	12.6	55.5	0.0	0.0
167.00		12.4	36.0					0.0	19.0	12.4	55.0	0.0	0.0
168.00		12.3	35.6					0.0	19.0	12.3	54.6	0.0	0.0
169.00		12.2	35.1					0.0	19.0	12.2	54.1	0.0	0.0
170.00		12.0	34.7					0.0	19.0	12.0	53.7	0.0	0.0
171.00		11.9	34.2					0.0	19.0	11.9	53.2	0.0	0.0
172.00		11.8	33.8					0.0	19.0	11.8	52.8	0.0	0.0
173.00		11.6	33.3					0.0	19.0	11.6	52.3	0.0	0.0
174.00	Appertunance(s)	11.5	32.9	334.6	0.0	0.0	1,500.0	0.0	19.0	346.2	1,551.9	0.0	0.0
175.00		11.4	32.4					0.0	19.0	11.4	51.5	0.0	0.0
176.00		11.2	32.0					0.0	19.0	11.2	51.0	0.0	0.0
177.00		11.1	31.6					0.0	19.0	11.1	50.6	0.0	0.0
178.00		11.0	31.1					0.0	19.0	11.0	50.1	0.0	0.0
179.00		10.8	30.7					0.0	19.0	10.8	49.7	0.0	0.0
180.00		5.4	30.2					0.0	19.0	5.4	49.2	0.0	0.0
								Totals:		9,950.31	58,068.1	0.00	0.00

Site Number: 302506 Code: ANSI/TIA-222-G

Site Name: Winchester CT 3, CT Engineering Number: OAA692405_C3_01 1/5/2017 2:53:07 PM

Customer: AT&T Mobility

Load Case: 1.0D + 1.0W Serviceability 60 mph 33 Iterations

Gust Response Factor : 1.10 Wind Importance Factor : 1.15

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	-60.34	-10.81	0.00	-1,263.08	0.00	1,263.08	5,102.86	2,551.43	10,963.2	5,489.79	0.00	0.00	0.179
1.00	-59.92	-10.80	0.00	-1,252.27	0.00	1,252.27	5,088.23	2,544.11	10,885.6	5,450.89	0.00	-0.01	0.179
2.00	-59.50	-10.79	0.00	-1,241.47	0.00	1,241.47	5,073.54	2,536.77	10,808.0	5,412.06	0.00	-0.02	0.178
3.00	-59.07	-10.77	0.00	-1,230.68	0.00	1,230.68	5,058.79	2,529.39	10,730.6	5,373.31	0.01	-0.03	0.178
4.00	-58.65	-10.76	0.00	-1,219.91	0.00	1,219.91	5,043.98	2,521.99	10,653.4	5,334.64	0.02	-0.04	0.177
5.00	-58.24	-10.75	0.00	-1,209.15	0.00	1,209.15	5,029.12	2,514.56	10,576.3	5,296.03	0.03	-0.05	0.177
6.00	-57.82	-10.74	0.00	-1,198.40	0.00	1,198.40	5,014.20	2,507.10	10,499.4	5,257.51	0.04	-0.06	0.176
7.00	-57.40	-10.73	0.00	-1,187.66	0.00	1,187.66	4,999.22	2,499.61	10,422.6	5,219.05	0.06	-0.07	0.176
8.00	-56.98	-10.72	0.00	-1,176.93	0.00	1,176.93	4,984.19	2,492.10	10,345.9	5,180.68	0.07	-0.09	0.175
9.00	-56.57	-10.70	0.00	-1,166.21	0.00	1,166.21	4,969.10	2,484.55	10,269.5	5,142.38	0.09	-0.10	0.175
10.00	-56.15	-10.69	0.00	-1,155.51	0.00	1,155.51	4,953.95	2,476.98	10,193.1	5,104.17	0.11	-0.11	0.174
11.00	-55.74	-10.68	0.00	-1,144.82	0.00	1,144.82	4,938.75	2,469.37	10,117.0	5,066.03	0.14	-0.12	0.173
12.00	-55.33	-10.67	0.00	-1,134.13	0.00	1,134.13	4,923.49	2,461.74	10,041.0	5,027.97	0.16	-0.13	0.173
13.00	-54.92	-10.66	0.00	-1,123.47	0.00	1,123.47	4,908.17	2,454.08	9,965.17	4,989.99	0.19	-0.14	0.172
14.00	-54.51	-10.65	0.00	-1,112.81	0.00	1,112.81	4,892.79	2,446.40	9,889.49	4,952.10	0.22	-0.15	0.172
15.00	-54.10	-10.63	0.00	-1,102.16	0.00	1,102.16	4,877.36	2,438.68	9,813.98	4,914.28	0.25	-0.16	0.171
16.00	-53.69	-10.62	0.00	-1,091.53	0.00	1,091.53	4,861.87	2,430.94	9,738.63	4,876.55	0.29	-0.17	0.170
17.00	-53.28	-10.61	0.00	-1,080.91	0.00	1,080.91	4,846.32	2,423.16	9,663.45	4,838.91	0.33	-0.18	0.170
18.00	-52.88	-10.60	0.00	-1,070.30	0.00	1,070.30	4,830.72	2,415.36	9,588.44	4,801.34	0.36	-0.19	0.169
19.00	-52.47	-10.59	0.00	-1,059.70	0.00	1,059.70	4,815.06	2,407.53	9,513.60	4,763.87	0.41	-0.20	0.168
20.00	-52.07	-10.57	0.00	-1,049.11	0.00	1,049.11	4,799.34	2,399.67	9,438.93	4,726.48	0.45	-0.22	0.168
21.00	-51.67	-10.56	0.00	-1,038.54	0.00	1,038.54	4,783.57	2,391.78	9,364.44	4,689.18	0.50	-0.23	0.167
22.00	-51.27	-10.55	0.00	-1,027.98	0.00	1,027.98	4,767.74	2,383.87	9,290.12	4,651.96	0.55	-0.24	0.166
23.00	-50.87	-10.54	0.00	-1,017.43	0.00	1,017.43	4,751.85	2,375.92	9,215.98	4,614.84	0.60	-0.25	0.166
24.00	-50.47	-10.53	0.00	-1,006.89	0.00	1,006.89	4,735.90	2,367.95	9,142.01	4,577.80	0.65	-0.26	0.165
25.00	-50.07	-10.51	0.00	-996.37	0.00	996.37	4,719.90	2,359.95	9,068.23	4,540.86	0.71	-0.27	0.164
26.00	-49.67	-10.50	0.00	-985.85	0.00	985.85	4,703.84	2,351.92	8,994.63	4,504.00	0.76	-0.28	0.164
27.00	-49.27	-10.49	0.00	-975.35	0.00	975.35	4,687.72	2,343.86	8,921.22	4,467.24	0.82	-0.29	0.163
28.00	-48.88	-10.48	0.00	-964.87	0.00	964.87	4,671.55	2,335.77	8,847.98	4,430.57	0.89	-0.30	0.162
29.00	-48.48	-10.46	0.00	-954.39	0.00	954.39	4,655.31	2,327.66	8,774.94	4,393.99	0.95	-0.32	0.162
30.00	-48.08	-10.44	0.00	-943.93	0.00	943.93	4,639.03	2,319.51	8,702.08	4,357.51	1.02	-0.33	0.161
31.00	-47.69	-10.43	0.00	-933.48	0.00	933.48	4,622.68	2,311.34	8,629.41	4,321.12	1.09	-0.34	0.160
32.00	-47.30	-10.42	0.00	-923.05	0.00	923.05	4,606.28	2,303.14	8,556.93	4,284.83	1.16	-0.35	0.159
33.00	-46.91	-10.40	0.00	-912.64	0.00	912.64	4,589.82	2,294.91	8,484.65	4,248.63	1.24	-0.36	0.159
34.00	-46.52	-10.39	0.00	-902.23	0.00	902.23	4,573.30	2,286.65	8,412.56	4,212.53	1.31	-0.37	0.158
35.00	-46.13	-10.38	0.00	-891.84	0.00	891.84	4,556.73	2,278.36	8,340.67	4,176.53	1.39	-0.38	0.157
36.00	-45.74	-10.36	0.00	-881.46	0.00	881.46	4,540.10	2,270.05	8,268.97	4,140.63	1.47	-0.39	0.156
37.00	-45.36	-10.35	0.00	-871.10	0.00	871.10	4,523.41	2,261.70	8,197.47	4,104.83	1.56	-0.41	0.156
38.00	-44.97	-10.34	0.00	-860.75	0.00	860.75	4,506.66	2,253.33	8,126.17	4,069.13	1.64	-0.42	0.155
39.00	-44.59	-10.32	0.00	-850.41	0.00	850.41	4,489.86	2,244.93	8,055.08	4,033.53	1.73	-0.43	0.154
40.00	-44.21	-10.31	0.00	-840.09	0.00	840.09	4,473.00	2,236.50	7,984.18	3,998.03	1.82	-0.44	0.153
41.00	-43.83	-10.29	0.00	-829.79	0.00	829.79	4,456.09	2,228.04	7,913.50	3,962.63	1.92	-0.45	0.152
42.00	-43.45	-10.28	0.00	-819.49	0.00	819.49	4,439.11	2,219.56	7,843.02	3,927.34	2.01	-0.46	0.151
42.96	-43.08	-10.27	0.00	-809.66	0.00	809.66	4,422.82	2,211.41	7,775.79	3,893.68	2.11	-0.47	0.151
43.00	-43.06	-10.26	0.00	-809.22	0.00	809.22	4,422.08	2,211.04	7,772.74	3,892.15	2.11	-0.47	0.149
44.00	-42.50	-10.25	0.00	-798.95	0.00	798.95	4,400.67	2,200.33	7,695.11	3,853.28	2.21	-0.49	0.148
45.00	-41.95	-10.23	0.00	-788.71	0.00	788.71	4,378.03	2,189.01	7,615.75	3,813.53	2.32	-0.50	0.148
46.00	-41.40	-10.20	0.00	-778.48	0.00	778.48	4,355.39	2,177.70	7,536.79	3,773.99	2.42	-0.51	0.147
47.00	-40.85	-10.16	0.00	-768.28	0.00	768.28	4,332.75	2,166.38	7,458.24	3,734.66	2.53	-0.52	0.146
48.00	-40.30	-10.11	0.00	-758.12	0.00	758.12	4,310.11	2,155.06	7,380.10	3,695.54	2.64	-0.53	0.145
49.00	-39.76	-10.09	0.00	-748.01	0.00	748.01	4,287.47	2,143.74	7,302.38	3,656.62	2.75	-0.54	0.145

Load Case: 1.0D + 1.0W Serviceability 60 mph 33 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 1.00
Wind Load Factor : 1.00

Wind Importance Factor : 1.15

49.04	-39.74	-10.08	0.00	-747.61	0.00	747.61	3,604.17	1,802.08	6,267.69	3,138.50	2.76	-0.54	0.163
50.00	-39.40	-10.05	0.00	-737.93	0.00	737.93	3,591.50	1,795.75	6,214.33	3,111.78	2.87	-0.55	0.162
51.00	-39.06	-10.01	0.00	-727.88	0.00	727.88	3,578.26	1,789.13	6,158.90	3,084.03	2.98	-0.57	0.161
52.00	-38.71	-9.97	0.00	-717.86	0.00	717.86	3,564.96	1,782.48	6,103.60	3,056.34	3.10	-0.58	0.160
53.00	-38.37	-9.93	0.00	-707.89	0.00	707.89	3,551.60	1,775.80	6,048.46	3,028.72	3.23	-0.59	0.159
54.00	-38.02	-9.89	0.00	-697.97	0.00	697.97	3,538.18	1,769.09	5,993.45	3,001.18	3.35	-0.60	0.158
55.00	-37.68	-9.84	0.00	-688.08	0.00	688.08	3,524.70	1,762.35	5,938.60	2,973.71	3.48	-0.61	0.156
56.00	-37.34	-9.80	0.00	-678.24	0.00	678.24	3,511.17	1,755.59	5,883.90	2,946.32	3.61	-0.63	0.155
57.00	-37.00	-9.76	0.00	-668.44	0.00	668.44	3,497.59	1,748.79	5,829.34	2,919.00	3.74	-0.64	0.154
58.00	-36.66	-9.71	0.00	-658.68	0.00	658.68	3,483.94	1,741.97	5,774.94	2,891.76	3.88	-0.65	0.153
59.00	-36.32	-9.67	0.00	-648.97	0.00	648.97	3,470.24	1,735.12	5,720.69	2,864.60	4.01	-0.66	0.152
60.00	-35.98	-9.63	0.00	-639.29	0.00	639.29	3,456.48	1,728.24	5,666.60	2,837.51	4.15	-0.67	0.150
61.00	-35.64	-9.58	0.00	-629.67	0.00	629.67	3,442.66	1,721.33	5,612.67	2,810.51	4.30	-0.69	0.149
62.00	-35.31	-9.54	0.00	-620.08	0.00	620.08	3,428.79	1,714.39	5,558.89	2,783.58	4.44	-0.70	0.148
63.00	-34.97	-9.50	0.00	-610.54	0.00	610.54	3,414.86	1,707.43	5,505.28	2,756.73	4.59	-0.71	0.147
64.00	-34.64	-9.45	0.00	-601.04	0.00	601.04	3,400.87	1,700.44	5,451.82	2,729.96	4.74	-0.72	0.145
65.00	-34.30	-9.41	0.00	-591.59	0.00	591.59	3,386.83	1,693.41	5,398.53	2,703.28	4.89	-0.73	0.144
66.00	-33.97	-9.37	0.00	-582.18	0.00	582.18	3,372.72	1,686.36	5,345.41	2,676.68	5.05	-0.74	0.143
67.00	-33.64	-9.32	0.00	-572.82	0.00	572.82	3,358.57	1,679.28	5,292.45	2,650.16	5.20	-0.76	0.142
68.00	-33.31	-9.28	0.00	-563.50	0.00	563.50	3,344.35	1,672.18	5,239.65	2,623.72	5.36	-0.77	0.140
69.00	-32.98	-9.23	0.00	-554.22	0.00	554.22	3,330.08	1,665.04	5,187.03	2,597.37	5.52	-0.78	0.139
70.00	-32.65	-9.19	0.00	-544.99	0.00	544.99	3,315.75	1,657.87	5,134.58	2,571.11	5.69	-0.79	0.138
71.00	-32.32	-9.14	0.00	-535.80	0.00	535.80	3,301.36	1,650.68	5,082.30	2,544.93	5.86	-0.80	0.136
72.00	-31.99	-9.10	0.00	-526.66	0.00	526.66	3,286.92	1,643.46	5,030.20	2,518.84	6.03	-0.82	0.135
73.00	-31.67	-9.05	0.00	-517.56	0.00	517.56	3,272.42	1,636.21	4,978.27	2,492.84	6.20	-0.83	0.134
74.00	-31.34	-9.01	0.00	-508.51	0.00	508.51	3,257.86	1,628.93	4,926.52	2,466.92	6.37	-0.84	0.132
75.00	-31.02	-8.96	0.00	-499.50	0.00	499.50	3,242.30	1,621.15	4,873.54	2,440.39	6.55	-0.85	0.131
76.00	-30.69	-8.92	0.00	-490.54	0.00	490.54	3,222.90	1,611.45	4,815.08	2,411.12	6.73	-0.86	0.130
77.00	-30.37	-8.87	0.00	-481.62	0.00	481.62	3,203.49	1,601.75	4,756.98	2,382.03	6.91	-0.87	0.129
78.00	-30.05	-8.83	0.00	-472.75	0.00	472.75	3,184.09	1,592.04	4,699.23	2,353.11	7.10	-0.88	0.128
79.00	-29.73	-8.78	0.00	-463.92	0.00	463.92	3,164.68	1,582.34	4,641.84	2,324.37	7.28	-0.90	0.126
80.00	-29.14	-8.25	0.00	-455.14	0.00	455.14	3,145.28	1,572.64	4,584.79	2,295.80	7.47	-0.91	0.125
81.00	-28.82	-8.20	0.00	-446.89	0.00	446.89	3,125.87	1,562.94	4,528.10	2,267.42	7.66	-0.92	0.124
82.00	-28.50	-8.16	0.00	-438.69	0.00	438.69	3,106.47	1,553.24	4,471.77	2,239.21	7.86	-0.93	0.123
83.00	-28.18	-8.11	0.00	-430.53	0.00	430.53	3,087.07	1,543.53	4,415.78	2,211.17	8.05	-0.94	0.122
84.00	-27.87	-8.06	0.00	-422.42	0.00	422.42	3,067.66	1,533.83	4,360.15	2,183.32	8.25	-0.95	0.120
85.00	-27.55	-8.02	0.00	-414.36	0.00	414.36	3,048.26	1,524.13	4,304.87	2,155.63	8.45	-0.96	0.119
86.00	-27.24	-7.97	0.00	-406.34	0.00	406.34	3,028.85	1,514.43	4,249.94	2,128.13	8.66	-0.98	0.118
87.00	-26.93	-7.93	0.00	-398.37	0.00	398.37	3,009.45	1,504.72	4,195.37	2,100.80	8.86	-0.99	0.117
87.54	-26.76	-7.91	0.00	-394.08	0.00	394.08	2,998.97	1,499.48	4,166.05	2,086.12	8.97	-0.99	0.116
88.00	-26.56	-7.88	0.00	-390.44	0.00	390.44	2,990.04	1,495.02	4,141.15	2,073.65	9.07	-1.00	0.114
89.00	-26.14	-7.83	0.00	-382.56	0.00	382.56	2,970.64	1,485.32	4,087.28	2,046.68	9.28	-1.01	0.113
90.00	-25.71	-7.78	0.00	-374.73	0.00	374.73	2,951.23	1,475.62	4,033.76	2,019.88	9.49	-1.02	0.112
91.00	-25.29	-7.73	0.00	-366.95	0.00	366.95	2,931.83	1,465.91	3,980.60	1,993.26	9.71	-1.03	0.110
92.00	-24.86	-7.69	0.00	-359.22	0.00	359.22	2,912.42	1,456.21	3,927.79	1,966.81	9.92	-1.04	0.109
92.46	-24.67	-7.67	0.00	-355.71	0.00	355.71	2,412.07	1,206.04	3,317.78	1,661.36	10.02	-1.05	0.121
93.00	-24.52	-7.64	0.00	-351.54	0.00	351.54	2,405.85	1,202.93	3,297.34	1,651.12	10.14	-1.05	0.120
94.00	-24.23	-7.59	0.00	-343.90	0.00	343.90	2,394.36	1,197.18	3,259.83	1,632.34	10.36	-1.06	0.119
95.00	-23.94	-7.54	0.00	-336.31	0.00	336.31	2,382.81	1,191.41	3,222.46	1,613.62	10.59	-1.07	0.117
96.00	-23.17	-7.33	0.00	-328.77	0.00	328.77	2,371.21	1,185.60	3,185.22	1,594.98	10.81	-1.09	0.115
97.00	-22.89	-7.28	0.00	-321.44	0.00	321.44	2,359.55	1,179.77	3,148.11	1,576.40	11.04	-1.10	0.113
98.00	-22.61	-7.24	0.00	-314.16	0.00	314.16	2,347.83	1,173.91	3,111.14	1,557.88	11.27	-1.11	0.112
99.00	-22.33	-7.19	0.00	-306.92	0.00	306.92	2,336.05	1,168.03	3,074.31	1,539.44	11.51	-1.12	0.110
100.00	-22.04	-7.14	0.00	-299.73	0.00	299.73	2,324.22	1,162.11	3,037.61	1,521.06	11.74	-1.13	0.108
101.00	-21.76	-7.10	0.00	-292.58	0.00	292.58	2,312.33	1,156.16	3,001.06	1,502.76	11.98	-1.14	0.106
102.00	-21.48	-7.05	0.00	-285.49	0.00	285.49	2,300.38	1,150.19	2,964.65	1,484.53	12.22	-1.15	0.105
103.00	-21.20	-7.00	0.00	-278.44	0.00	278.44	2,288.38	1,144.19	2,928.39	1,466.37	12.46	-1.16	0.103

Load Case: 1.0D + 1.0W Serviceability 60 mph 33 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 1.00
Wind Load Factor : 1.00

Wind Importance Factor : 1.15

104.00	-20.93	-6.97	0.00	-271.43	0.00	271.43	2,276.31	1,138.16	2,892.27	1,448.28	12.71	-1.17	0.101
104.50	-20.79	-6.94	0.00	-267.95	0.00	267.95	2,270.26	1,135.13	2,874.26	1,439.27	12.83	-1.18	0.100
104.50	-20.79	-6.94	0.00	-267.95	0.00	267.95	2,270.26	1,135.13	2,874.26	1,439.27	12.83	-1.18	0.195
105.00	-20.68	-6.91	0.00	-264.48	0.00	264.48	2,264.20	1,132.10	2,856.29	1,430.27	12.95	-1.18	0.194
106.00	-20.47	-6.87	0.00	-257.56	0.00	257.56	2,251.29	1,125.65	2,819.56	1,411.88	13.20	-1.20	0.192
107.00	-20.26	-6.83	0.00	-250.69	0.00	250.69	2,235.12	1,117.56	2,779.00	1,391.56	13.46	-1.22	0.189
108.00	-20.05	-6.79	0.00	-243.86	0.00	243.86	2,218.95	1,109.48	2,738.73	1,371.40	13.72	-1.24	0.187
109.00	-19.84	-6.75	0.00	-237.07	0.00	237.07	2,202.78	1,101.39	2,698.75	1,351.38	13.98	-1.26	0.184
110.00	-19.63	-6.71	0.00	-230.32	0.00	230.32	2,186.61	1,093.30	2,659.07	1,331.51	14.25	-1.28	0.182
111.00	-19.35	-6.54	0.00	-223.62	0.00	223.62	2,170.44	1,085.22	2,619.69	1,311.79	14.52	-1.30	0.179
112.00	-19.15	-6.50	0.00	-217.07	0.00	217.07	2,154.27	1,077.13	2,580.59	1,292.21	14.79	-1.32	0.177
113.00	-17.31	-5.88	0.00	-210.57	0.00	210.57	2,138.10	1,069.05	2,541.79	1,272.79	15.07	-1.34	0.174
114.00	-17.17	-5.84	0.00	-204.69	0.00	204.69	2,121.93	1,060.96	2,503.29	1,253.50	15.35	-1.36	0.171
115.00	-17.02	-5.80	0.00	-198.85	0.00	198.85	2,105.76	1,052.88	2,465.08	1,234.37	15.64	-1.38	0.169
116.00	-16.87	-5.76	0.00	-193.05	0.00	193.05	2,089.59	1,044.79	2,427.16	1,215.38	15.93	-1.40	0.167
117.00	-16.72	-5.72	0.00	-187.29	0.00	187.29	2,073.42	1,036.71	2,389.54	1,196.54	16.23	-1.42	0.165
118.00	-16.58	-5.68	0.00	-181.56	0.00	181.56	2,057.25	1,028.62	2,352.21	1,177.85	16.53	-1.44	0.162
119.00	-16.43	-5.64	0.00	-175.88	0.00	175.88	2,041.07	1,020.54	2,315.17	1,159.31	16.83	-1.46	0.160
120.00	-16.29	-5.60	0.00	-170.24	0.00	170.24	2,024.90	1,012.45	2,278.43	1,140.91	17.14	-1.47	0.157
121.00	-16.14	-5.56	0.00	-164.64	0.00	164.64	2,008.73	1,004.37	2,241.98	1,122.66	17.45	-1.49	0.155
122.00	-14.25	-4.56	0.00	-159.08	0.00	159.08	1,992.56	996.28	2,205.83	1,104.55	17.76	-1.51	0.151
123.00	-14.12	-4.54	0.00	-154.52	0.00	154.52	1,976.39	988.20	2,169.97	1,086.60	18.08	-1.53	0.149
124.00	-13.99	-4.53	0.00	-149.97	0.00	149.97	1,960.22	980.11	2,134.40	1,068.79	18.40	-1.55	0.147
125.00	-13.86	-4.51	0.00	-145.45	0.00	145.45	1,944.05	972.03	2,099.13	1,051.12	18.73	-1.56	0.146
126.00	-13.72	-4.50	0.00	-140.93	0.00	140.93	1,927.88	963.94	2,064.15	1,033.61	19.06	-1.58	0.143
127.00	-13.60	-4.48	0.00	-136.44	0.00	136.44	1,911.71	955.86	2,029.46	1,016.24	19.39	-1.60	0.141
128.00	-13.47	-4.46	0.00	-131.96	0.00	131.96	1,895.54	947.77	1,995.07	999.02	19.73	-1.62	0.139
129.00	-13.34	-4.45	0.00	-127.50	0.00	127.50	1,879.37	939.68	1,960.98	981.95	20.07	-1.63	0.137
130.00	-13.21	-4.43	0.00	-123.05	0.00	123.05	1,863.20	931.60	1,927.17	965.02	20.41	-1.65	0.135
131.00	-13.08	-4.41	0.00	-118.62	0.00	118.62	1,847.03	923.51	1,893.66	948.24	20.76	-1.67	0.132
132.00	-12.96	-4.40	0.00	-114.20	0.00	114.20	1,830.86	915.43	1,860.45	931.61	21.11	-1.68	0.130
132.12	-12.94	-4.40	0.00	-113.68	0.00	113.68	1,828.92	914.46	1,856.49	929.63	21.15	-1.69	0.129
133.00	-12.79	-4.38	0.00	-109.81	0.00	109.81	1,814.69	907.34	1,827.53	915.12	21.46	-1.70	0.127
134.00	-12.61	-4.36	0.00	-105.43	0.00	105.43	1,798.52	899.26	1,794.90	898.78	21.82	-1.72	0.124
135.00	-12.44	-4.35	0.00	-101.06	0.00	101.06	1,782.35	891.17	1,762.57	882.59	22.18	-1.73	0.122
135.87	-12.29	-4.33	0.00	-97.28	0.00	97.28	993.95	496.97	1,000.68	501.09	22.50	-1.75	0.207
136.00	-12.28	-4.33	0.00	-96.72	0.00	96.72	993.20	496.60	998.76	500.12	22.55	-1.75	0.206
137.00	-9.20	-3.21	0.00	-92.39	0.00	92.39	987.45	493.72	984.00	492.73	22.92	-1.77	0.197
138.00	-9.12	-3.19	0.00	-89.19	0.00	89.19	981.64	490.82	969.28	485.36	23.29	-1.80	0.193
139.00	-9.03	-3.18	0.00	-86.00	0.00	86.00	975.77	487.88	954.62	478.02	23.67	-1.82	0.189
140.00	-8.44	-3.00	0.00	-82.82	0.00	82.82	969.84	484.92	940.01	470.70	24.06	-1.85	0.185
141.00	-8.36	-2.99	0.00	-79.82	0.00	79.82	963.86	481.93	925.45	463.41	24.45	-1.87	0.181
142.00	-8.27	-2.97	0.00	-76.83	0.00	76.83	957.82	478.91	910.95	456.15	24.84	-1.89	0.177
143.00	-8.19	-2.96	0.00	-73.86	0.00	73.86	951.72	475.86	896.50	448.92	25.24	-1.92	0.173
144.00	-8.11	-2.94	0.00	-70.91	0.00	70.91	945.56	472.78	882.11	441.71	25.64	-1.94	0.169
145.00	-8.02	-2.93	0.00	-67.97	0.00	67.97	939.35	469.68	867.78	434.53	26.05	-1.96	0.165
146.00	-7.24	-2.44	0.00	-64.91	0.00	64.91	933.08	466.54	853.51	427.39	26.46	-1.98	0.160
147.00	-7.17	-2.42	0.00	-62.47	0.00	62.47	926.76	463.38	839.30	420.27	26.88	-2.00	0.156
148.00	-7.09	-2.41	0.00	-60.05	0.00	60.05	920.37	460.19	825.16	413.19	27.30	-2.03	0.153
149.00	-7.02	-2.39	0.00	-57.64	0.00	57.64	913.93	456.97	811.08	406.14	27.73	-2.05	0.150
150.00	-6.94	-2.38	0.00	-55.25	0.00	55.25	907.44	453.72	797.07	399.13	28.16	-2.07	0.146
151.00	-6.87	-2.37	0.00	-52.87	0.00	52.87	900.88	450.44	783.12	392.14	28.60	-2.09	0.142
152.00	-6.64	-2.29	0.00	-50.50	0.00	50.50	894.27	447.14	769.25	385.20	29.04	-2.11	0.139
153.00	-6.57	-2.27	0.00	-48.21	0.00	48.21	887.60	443.80	755.45	378.29	29.48	-2.13	0.135
154.00	-6.49	-2.26	0.00	-45.94	0.00	45.94	880.88	440.44	741.72	371.41	29.93	-2.15	0.131
155.00	-6.42	-2.25	0.00	-43.68	0.00	43.68	874.09	437.05	728.06	364.57	30.38	-2.17	0.127
156.00	-6.35	-2.23	0.00	-41.43	0.00	41.43	867.26	433.63	714.49	357.77	30.84	-2.19	0.123

Load Case: 1.0D + 1.0W Serviceability 60 mph 33 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 1.00
Wind Load Factor : 1.00

Wind Importance Factor : 1.15

157.00	-6.28	-2.22	0.00	-39.20	0.00	39.20	860.36	430.18	700.99	351.01	31.30	-2.21	0.119
158.00	-6.21	-2.20	0.00	-36.99	0.00	36.99	853.41	426.70	687.57	344.29	31.76	-2.23	0.115
159.00	-6.14	-2.19	0.00	-34.79	0.00	34.79	846.39	423.20	674.23	337.61	32.23	-2.24	0.110
160.00	-6.07	-2.17	0.00	-32.60	0.00	32.60	839.33	419.66	660.97	330.98	32.70	-2.26	0.106
161.00	-6.00	-2.14	0.00	-30.43	0.00	30.43	832.20	416.10	647.80	324.38	33.18	-2.28	0.101
162.00	-5.94	-2.11	0.00	-28.29	0.00	28.29	825.02	412.51	634.71	317.83	33.66	-2.30	0.096
163.00	-4.61	-1.58	0.00	-26.18	0.00	26.18	817.78	408.89	621.71	311.32	34.14	-2.31	0.090
164.00	-4.56	-1.57	0.00	-24.60	0.00	24.60	810.15	405.07	608.54	304.72	34.63	-2.33	0.086
165.00	-4.50	-1.56	0.00	-23.03	0.00	23.03	800.44	400.22	593.98	297.43	35.11	-2.34	0.083
166.00	-4.45	-1.54	0.00	-21.48	0.00	21.48	790.74	395.37	579.60	290.23	35.61	-2.35	0.080
167.00	-4.39	-1.53	0.00	-19.94	0.00	19.94	781.04	390.52	565.39	283.11	36.10	-2.37	0.076
168.00	-4.34	-1.51	0.00	-18.41	0.00	18.41	771.34	385.67	551.35	276.09	36.60	-2.38	0.072
169.00	-4.28	-1.50	0.00	-16.89	0.00	16.89	761.63	380.82	537.50	269.15	37.10	-2.39	0.068
170.00	-4.23	-1.49	0.00	-15.39	0.00	15.39	751.93	375.97	523.82	262.30	37.60	-2.41	0.064
171.00	-4.18	-1.47	0.00	-13.90	0.00	13.90	742.23	371.11	510.32	255.54	38.11	-2.42	0.060
172.00	-4.12	-1.46	0.00	-12.43	0.00	12.43	732.53	366.26	496.99	248.86	38.61	-2.43	0.056
173.00	-4.07	-1.45	0.00	-10.97	0.00	10.97	722.82	361.41	483.84	242.28	39.12	-2.44	0.051
174.00	-2.54	-1.04	0.00	-9.52	0.00	9.52	713.12	356.56	470.86	235.78	39.63	-2.45	0.044
175.00	-2.48	-1.02	0.00	-8.48	0.00	8.48	703.42	351.71	458.07	229.37	40.15	-2.45	0.041
176.00	-2.43	-1.01	0.00	-7.46	0.00	7.46	693.72	346.86	445.44	223.05	40.66	-2.46	0.037
177.00	-2.38	-1.00	0.00	-6.45	0.00	6.45	684.02	342.01	433.00	216.82	41.18	-2.47	0.033
178.00	-2.33	-0.98	0.00	-5.45	0.00	5.45	674.31	337.16	420.73	210.68	41.70	-2.47	0.029
179.00	-2.28	-0.97	0.00	-4.47	0.00	4.47	664.61	332.31	408.64	204.62	42.21	-2.48	0.025
180.00	0.00	-0.87	0.00	-3.50	0.00	3.50	654.91	327.45	396.72	198.65	42.73	-2.48	0.018

Equivalent Lateral Forces Method Analysis

(Based on ASCE7-10 Chapters 11, 12, 15)

Spectral Response Acceleration for Short Period (S_s):	0.18	
Spectral Response Acceleration at 1.0 Second Period (S_1):	0.06	
Long-Period Transition Period (T_L):	8	
Importance Factor (I_E):	1.50	
Site Coefficient F_a:	1.60	
Site Coeffiecient F_v:	2.40	
Response Modification Coefficient (R):	1.50	
Design Spectral Response Acceleration at Short Period (S_{ds}):	0.19	
Design Spectral Response Acceleration at 1.0 Second Period (S_{d1}):	0.10	
Seismic Response Coefficient (C_s):	0.04	
Upper Limit C_s	0.04	
Lower Limit C_s	0.03	
Period based on Rayleigh Method (sec):	2.85	
Redundancy Factor (p):	1.30	
Seismic Force Distribution Exponent (k):	2.00	
Total Unfactored Dead Load:	60.34	k
Seismic Base Shear (E):	2.87	k

Load Case (1.2 + 0.2Sds) * DL + E ELFM — Seismic Equivalent Lateral Forces Method

Segment	Height Above Base (ft)	Weight (lb)	W_z (lb-ft)	C_{vx}	Horizontal Force (lb)	Vertical Force (lb)
187	179.50	49	1,586	0.003	8	61
186	178.50	50	1,583	0.003	8	61
185	177.50	50	1,579	0.003	8	62
184	176.50	51	1,575	0.003	8	63
183	175.50	51	1,571	0.003	8	63
182	174.50	51	1,567	0.003	8	64
181	173.50	52	1,562	0.003	8	64
180	172.50	52	1,558	0.003	8	65
179	171.50	53	1,553	0.003	8	65
178	170.50	53	1,548	0.003	8	66
177	169.50	54	1,542	0.003	8	66
176	168.50	54	1,537	0.003	8	67
175	167.50	55	1,531	0.003	8	68
174	166.50	55	1,525	0.003	8	68
173	165.50	55	1,519	0.003	8	69
172	164.50	56	1,513	0.003	8	69
171	163.50	56	1,506	0.003	8	70
170	162.50	68	1,786	0.003	9	84
169	161.50	68	1,776	0.003	9	84
168	160.50	69	1,765	0.003	9	85
167	159.50	69	1,754	0.003	9	85
166	158.50	69	1,744	0.003	9	86
165	157.50	70	1,733	0.003	9	86

164	156.50	70	1,722	0.003	9	87
163	155.50	71	1,711	0.003	9	88
162	154.50	71	1,699	0.003	9	88
161	153.50	72	1,688	0.003	9	89
160	152.50	72	1,676	0.003	8	89
159	151.50	73	1,683	0.003	9	91
158	150.50	74	1,671	0.003	8	91
157	149.50	74	1,659	0.003	8	92
156	148.50	75	1,647	0.003	8	92
155	147.50	75	1,634	0.003	8	93
154	146.50	76	1,622	0.003	8	94
153	145.50	82	1,734	0.003	9	101
152	144.50	82	1,719	0.003	9	102
151	143.50	83	1,705	0.003	9	102
150	142.50	83	1,690	0.003	9	103
149	141.50	84	1,675	0.003	8	104
148	140.50	84	1,660	0.003	8	104
147	139.50	85	1,658	0.003	8	105
146	138.50	86	1,643	0.003	8	106
145	137.50	86	1,628	0.003	8	107
144	136.50	90	1,681	0.003	8	112
143	135.93	12	218	0.000	1	15
142	135.43	150	2,744	0.005	14	185
141	134.50	173	3,132	0.006	16	214
140	133.50	174	3,107	0.005	16	216
139	132.56	154	2,713	0.005	14	191
138	132.06	15	261	0.000	1	18
137	131.50	125	2,164	0.004	11	155
136	130.50	126	2,144	0.004	11	156
135	129.50	127	2,123	0.004	11	157
134	128.50	127	2,103	0.004	11	158
133	127.50	128	2,082	0.004	11	159
132	126.50	129	2,062	0.004	10	159
131	125.50	130	2,041	0.004	10	160
130	124.50	130	2,020	0.004	10	161
129	123.50	131	1,999	0.004	10	162
128	122.50	132	1,978	0.003	10	163
127	121.50	142	2,102	0.004	11	176
126	120.50	143	2,078	0.004	10	177
125	119.50	144	2,054	0.004	10	178
124	118.50	145	2,030	0.004	10	179
123	117.50	145	2,007	0.004	10	180
122	116.50	146	1,983	0.003	10	181
121	115.50	147	1,959	0.003	10	182
120	114.50	148	1,935	0.003	10	183
119	113.50	148	1,910	0.003	10	184
118	112.50	178	2,254	0.004	11	220
117	111.50	200	2,491	0.004	13	248
116	110.50	206	2,515	0.004	13	255
115	109.50	207	2,479	0.004	13	256
114	108.50	207	2,443	0.004	12	257
113	107.50	208	2,406	0.004	12	258
112	106.50	209	2,370	0.004	12	259
111	105.50	210	2,334	0.004	12	260
110	104.75	105	1,154	0.002	6	130
109	104.25	139	1,508	0.003	8	172
108	103.50	278	2,978	0.005	15	344
107	102.50	279	2,928	0.005	15	345
106	101.50	279	2,879	0.005	15	346
105	100.50	280	2,830	0.005	14	347
104	99.50	281	2,781	0.005	14	348
103	98.50	282	2,733	0.005	14	349
102	97.50	282	2,685	0.005	14	350
101	96.50	283	2,637	0.005	13	350

100	95.50	285	2,597	0.005	13	352
99	94.50	285	2,549	0.004	13	353
98	93.50	286	2,502	0.004	13	354
97	92.73	156	1,340	0.002	7	193
96	92.23	192	1,632	0.003	8	238
95	91.50	422	3,529	0.006	18	522
94	90.50	423	3,466	0.006	18	524
93	89.50	425	3,403	0.006	17	526
92	88.50	426	3,340	0.006	17	528
91	87.77	197	1,516	0.003	8	244
90	87.27	168	1,281	0.002	6	208
89	86.50	312	2,335	0.004	12	386
88	85.50	313	2,288	0.004	12	387
87	84.50	314	2,241	0.004	11	389
86	83.50	315	2,195	0.004	11	390
85	82.50	316	2,149	0.004	11	391
84	81.50	317	2,103	0.004	11	392
83	80.50	317	2,057	0.004	10	393
82	79.50	319	2,015	0.004	10	395
81	78.50	320	1,971	0.003	10	396
80	77.50	321	1,927	0.003	10	397
79	76.50	322	1,882	0.003	10	398
78	75.50	323	1,839	0.003	9	399
77	74.50	323	1,795	0.003	9	400
76	73.50	324	1,752	0.003	9	401
75	72.50	325	1,709	0.003	9	403
74	71.50	326	1,667	0.003	8	404
73	70.50	327	1,625	0.003	8	405
72	69.50	328	1,584	0.003	8	406
71	68.50	329	1,543	0.003	8	407
70	67.50	330	1,502	0.003	8	408
69	66.50	331	1,462	0.003	7	409
68	65.50	331	1,422	0.003	7	410
67	64.50	332	1,383	0.002	7	411
66	63.50	333	1,344	0.002	7	412
65	62.50	334	1,305	0.002	7	414
64	61.50	335	1,267	0.002	6	415
63	60.50	336	1,229	0.002	6	416
62	59.50	337	1,192	0.002	6	417
61	58.50	338	1,156	0.002	6	418
60	57.50	339	1,119	0.002	6	419
59	56.50	339	1,084	0.002	5	420
58	55.50	340	1,048	0.002	5	421
57	54.50	341	1,013	0.002	5	422
56	53.50	342	979	0.002	5	423
55	52.50	343	945	0.002	5	425
54	51.50	344	912	0.002	5	426
53	50.50	345	879	0.002	4	427
52	49.52	332	814	0.001	4	411
51	49.02	22	52	0.000	0	27
50	48.50	543	1,278	0.002	6	673
49	47.50	545	1,230	0.002	6	675
48	46.50	547	1,183	0.002	6	677
47	45.50	549	1,137	0.002	6	680
46	44.50	551	1,091	0.002	6	682
45	43.50	553	1,047	0.002	5	685
44	42.98	24	44	0.000	0	30
43	42.48	361	652	0.001	3	447
42	41.50	379	652	0.001	3	469
41	40.50	380	623	0.001	3	470
40	39.50	381	594	0.001	3	471
39	38.50	382	566	0.001	3	473
38	37.50	383	538	0.001	3	474
37	36.50	384	511	0.001	3	475

36	35.50	385	485	0.001	2	476
35	34.50	386	459	0.001	2	478
34	33.50	387	434	0.001	2	479
33	32.50	388	410	0.001	2	480
32	31.50	389	386	0.001	2	481
31	30.50	390	363	0.001	2	483
30	29.50	391	341	0.001	2	484
29	28.50	392	319	0.001	2	486
28	27.50	393	298	0.001	2	487
27	26.50	395	277	0.000	1	488
26	25.50	396	257	0.000	1	490
25	24.50	397	238	0.000	1	491
24	23.50	398	220	0.000	1	492
23	22.50	399	202	0.000	1	493
22	21.50	400	185	0.000	1	495
21	20.50	401	168	0.000	1	496
20	19.50	402	153	0.000	1	497
19	18.50	403	138	0.000	1	499
18	17.50	404	124	0.000	1	500
17	16.50	405	110	0.000	1	501
16	15.50	406	98	0.000	0	502
15	14.50	407	86	0.000	0	504
14	13.50	408	74	0.000	0	505
13	12.50	409	64	0.000	0	506
12	11.50	410	54	0.000	0	508
11	10.50	411	45	0.000	0	509
10	9.50	412	37	0.000	0	510
9	8.50	413	30	0.000	0	511
8	7.50	414	23	0.000	0	513
7	6.50	415	18	0.000	0	514
6	5.50	416	13	0.000	0	515
5	4.50	417	8	0.000	0	517
4	3.50	418	5	0.000	0	518
3	2.50	419	3	0.000	0	519
2	1.50	420	1	0.000	0	520
1	0.50	421	0	0.000	0	522
Andrew ABT-DMDF-ADBH	184.00	1	37	0.000	0	1
4' Omni	184.00	10	339	0.001	2	12
Powerwave Allgon LGP	184.00	85	2,864	0.005	14	105
Ericsson RRUS 11 (Ba	184.00	150	5,078	0.009	26	186
Ericsson RRUS-12 B2	184.00	174	5,891	0.010	30	215
Powerwave Allgon 777	184.00	210	7,110	0.013	36	260
KMW AM-X-CD-16-65-00	184.00	146	4,926	0.009	25	180
Flat Low Profile Pla	184.00	1,500	50,784	0.090	256	1,857
Empty Low Profile Pl	174.00	1,500	45,414	0.080	229	1,857
Ericsson KRY 112 144	163.00	33	877	0.002	4	41
Ericsson AIR 21, 1.3	163.00	249	6,616	0.012	33	308
Ericsson AIR 21, 1.3	163.00	244	6,496	0.011	33	303
Round T-Arm	163.00	750	19,927	0.035	101	928
Sinclair SD210-SF2P4	152.00	8	192	0.000	1	10
Round Side Arm	152.00	150	3,466	0.006	18	186
Bird 432-83H-01-T	146.00	25	533	0.001	3	31
Sinclair SC479-HF1LD	146.00	34	725	0.001	4	42
Round Side Arm	146.00	450	9,592	0.017	48	557
Decibel DB809DK-XT	146.00	128	2,728	0.005	14	158
Sinclair SC442D-HF1L	146.00	79	1,684	0.003	9	98
Telewave ANT150D (5	140.00	5	98	0.000	0	6
Bird 432-83H-01-T	140.00	50	980	0.002	5	62
Round Side Arm	140.00	450	8,820	0.016	45	557
Alcatel-Lucent 800 M	137.00	185	3,480	0.006	18	229
Alcatel-Lucent 1900M	137.00	132	2,478	0.004	13	163
Alcatel-Lucent TD-RR	137.00	210	3,941	0.007	20	260
RFS APXVTM14-C-I20	137.00	317	5,957	0.010	30	393
RFS APXVSPP18-C-A20	137.00	171	3,209	0.006	16	212

Flat Platform w/ Han	137.00	2,000	37,538	0.066	190	2,476
RFS FD9R6004/2C-3L	122.00	19	277	0.000	1	23
A Antel BXA-171085-1	122.00	30	447	0.001	2	37
A Antel BXA-171063-1	122.00	15	223	0.000	1	19
Amp Antel BXA-70063-	122.00	34	506	0.001	3	42
Antel LPA-80080/6CF	122.00	84	1,250	0.002	6	104
Antel LPA-80063/6CF	122.00	54	804	0.001	4	67
Amphenol Antel BXA-7	122.00	38	558	0.001	3	46
Round Low Profile Pl	122.00	1,500	22,326	0.039	113	1,857
Decibel DB844H90E-XY	113.00	168	2,145	0.004	11	208
Round Low Profile Pl	113.00	1,500	19,154	0.034	97	1,857
RFS APXV18-206517S-C	111.00	79	976	0.002	5	98
Andrew DB586	96.00	8	76	0.000	0	10
Andrew DB586	96.00	8	76	0.000	0	10
Bird 429-83H-01-T	96.00	20	184	0.000	1	25
Flat Side Arm	96.00	450	4,147	0.007	21	557
RFS PA6-65AC	80.00	278	1,779	0.003	9	344
PCTEL GPS-TMG-HR-26N	79.00	1	4	0.000	0	1
GPS	30.00	10	9	0.000	0	12
		60,343	567,401	1.000	2,866	74,691

Load Case (0.9 - 0.2Sds) * DL + E ELFM — Seismic (Reduced DL) Equivalent Lateral Forces Method

Segment	Height Above Base (ft)	Weight (lb)	W_z (lb-ft)	C_{vx}	Horizontal Force (lb)	Vertical Force (lb)
187	179.50	49	1,586	0.003	8	42
186	178.50	50	1,583	0.003	8	43
185	177.50	50	1,579	0.003	8	43
184	176.50	51	1,575	0.003	8	44
183	175.50	51	1,571	0.003	8	44
182	174.50	51	1,567	0.003	8	44
181	173.50	52	1,562	0.003	8	45
180	172.50	52	1,558	0.003	8	45
179	171.50	53	1,553	0.003	8	46
178	170.50	53	1,548	0.003	8	46
177	169.50	54	1,542	0.003	8	46
176	168.50	54	1,537	0.003	8	47
175	167.50	55	1,531	0.003	8	47
174	166.50	55	1,525	0.003	8	47
173	165.50	55	1,519	0.003	8	48
172	164.50	56	1,513	0.003	8	48
171	163.50	56	1,506	0.003	8	49
170	162.50	68	1,786	0.003	9	58
169	161.50	68	1,776	0.003	9	59
168	160.50	69	1,765	0.003	9	59
167	159.50	69	1,754	0.003	9	59
166	158.50	69	1,744	0.003	9	60
165	157.50	70	1,733	0.003	9	60
164	156.50	70	1,722	0.003	9	61
163	155.50	71	1,711	0.003	9	61
162	154.50	71	1,699	0.003	9	61
161	153.50	72	1,688	0.003	9	62
160	152.50	72	1,676	0.003	8	62
159	151.50	73	1,683	0.003	9	63
158	150.50	74	1,671	0.003	8	64
157	149.50	74	1,659	0.003	8	64
156	148.50	75	1,647	0.003	8	64
155	147.50	75	1,634	0.003	8	65
154	146.50	76	1,622	0.003	8	65
153	145.50	82	1,734	0.003	9	71

152	144.50	82	1,719	0.003	9	71
151	143.50	83	1,705	0.003	9	71
150	142.50	83	1,690	0.003	9	72
149	141.50	84	1,675	0.003	8	72
148	140.50	84	1,660	0.003	8	73
147	139.50	85	1,658	0.003	8	73
146	138.50	86	1,643	0.003	8	74
145	137.50	86	1,628	0.003	8	74
144	136.50	90	1,681	0.003	8	78
143	135.93	12	218	0.000	1	10
142	135.43	150	2,744	0.005	14	129
141	134.50	173	3,132	0.006	16	149
140	133.50	174	3,107	0.005	16	150
139	132.56	154	2,713	0.005	14	133
138	132.06	15	261	0.000	1	13
137	131.50	125	2,164	0.004	11	108
136	130.50	126	2,144	0.004	11	109
135	129.50	127	2,123	0.004	11	109
134	128.50	127	2,103	0.004	11	110
133	127.50	128	2,082	0.004	11	110
132	126.50	129	2,062	0.004	10	111
131	125.50	130	2,041	0.004	10	112
130	124.50	130	2,020	0.004	10	112
129	123.50	131	1,999	0.004	10	113
128	122.50	132	1,978	0.003	10	114
127	121.50	142	2,102	0.004	11	123
126	120.50	143	2,078	0.004	10	123
125	119.50	144	2,054	0.004	10	124
124	118.50	145	2,030	0.004	10	125
123	117.50	145	2,007	0.004	10	125
122	116.50	146	1,983	0.003	10	126
121	115.50	147	1,959	0.003	10	127
120	114.50	148	1,935	0.003	10	127
119	113.50	148	1,910	0.003	10	128
118	112.50	178	2,254	0.004	11	154
117	111.50	200	2,491	0.004	13	173
116	110.50	206	2,515	0.004	13	178
115	109.50	207	2,479	0.004	13	178
114	108.50	207	2,443	0.004	12	179
113	107.50	208	2,406	0.004	12	180
112	106.50	209	2,370	0.004	12	180
111	105.50	210	2,334	0.004	12	181
110	104.75	105	1,154	0.002	6	91
109	104.25	139	1,508	0.003	8	120
108	103.50	278	2,978	0.005	15	240
107	102.50	279	2,928	0.005	15	240
106	101.50	279	2,879	0.005	15	241
105	100.50	280	2,830	0.005	14	242
104	99.50	281	2,781	0.005	14	242
103	98.50	282	2,733	0.005	14	243
102	97.50	282	2,685	0.005	14	244
101	96.50	283	2,637	0.005	13	244
100	95.50	285	2,597	0.005	13	245
99	94.50	285	2,549	0.004	13	246
98	93.50	286	2,502	0.004	13	247
97	92.73	156	1,340	0.002	7	134
96	92.23	192	1,632	0.003	8	165
95	91.50	422	3,529	0.006	18	363
94	90.50	423	3,466	0.006	18	365
93	89.50	425	3,403	0.006	17	366
92	88.50	426	3,340	0.006	17	368
91	87.77	197	1,516	0.003	8	170
90	87.27	168	1,281	0.002	6	145
89	86.50	312	2,335	0.004	12	269

88	85.50	313	2,288	0.004	12	270
87	84.50	314	2,241	0.004	11	271
86	83.50	315	2,195	0.004	11	271
85	82.50	316	2,149	0.004	11	272
84	81.50	317	2,103	0.004	11	273
83	80.50	317	2,057	0.004	10	274
82	79.50	319	2,015	0.004	10	275
81	78.50	320	1,971	0.003	10	276
80	77.50	321	1,927	0.003	10	277
79	76.50	322	1,882	0.003	10	277
78	75.50	323	1,839	0.003	9	278
77	74.50	323	1,795	0.003	9	279
76	73.50	324	1,752	0.003	9	280
75	72.50	325	1,709	0.003	9	280
74	71.50	326	1,667	0.003	8	281
73	70.50	327	1,625	0.003	8	282
72	69.50	328	1,584	0.003	8	283
71	68.50	329	1,543	0.003	8	283
70	67.50	330	1,502	0.003	8	284
69	66.50	331	1,462	0.003	7	285
68	65.50	331	1,422	0.003	7	286
67	64.50	332	1,383	0.002	7	287
66	63.50	333	1,344	0.002	7	287
65	62.50	334	1,305	0.002	7	288
64	61.50	335	1,267	0.002	6	289
63	60.50	336	1,229	0.002	6	290
62	59.50	337	1,192	0.002	6	290
61	58.50	338	1,156	0.002	6	291
60	57.50	339	1,119	0.002	6	292
59	56.50	339	1,084	0.002	5	293
58	55.50	340	1,048	0.002	5	293
57	54.50	341	1,013	0.002	5	294
56	53.50	342	979	0.002	5	295
55	52.50	343	945	0.002	5	296
54	51.50	344	912	0.002	5	297
53	50.50	345	879	0.002	4	297
52	49.52	332	814	0.001	4	286
51	49.02	22	52	0.000	0	19
50	48.50	543	1,278	0.002	6	469
49	47.50	545	1,230	0.002	6	470
48	46.50	547	1,183	0.002	6	472
47	45.50	549	1,137	0.002	6	474
46	44.50	551	1,091	0.002	6	475
45	43.50	553	1,047	0.002	5	477
44	42.98	24	44	0.000	0	21
43	42.48	361	652	0.001	3	311
42	41.50	379	652	0.001	3	326
41	40.50	380	623	0.001	3	327
40	39.50	381	594	0.001	3	328
39	38.50	382	566	0.001	3	329
38	37.50	383	538	0.001	3	330
37	36.50	384	511	0.001	3	331
36	35.50	385	485	0.001	2	332
35	34.50	386	459	0.001	2	333
34	33.50	387	434	0.001	2	334
33	32.50	388	410	0.001	2	335
32	31.50	389	386	0.001	2	335
31	30.50	390	363	0.001	2	336
30	29.50	391	341	0.001	2	337
29	28.50	392	319	0.001	2	338
28	27.50	393	298	0.001	2	339
27	26.50	395	277	0.000	1	340
26	25.50	396	257	0.000	1	341
25	24.50	397	238	0.000	1	342

24	23.50	398	220	0.000	1	343
23	22.50	399	202	0.000	1	344
22	21.50	400	185	0.000	1	345
21	20.50	401	168	0.000	1	346
20	19.50	402	153	0.000	1	346
19	18.50	403	138	0.000	1	347
18	17.50	404	124	0.000	1	348
17	16.50	405	110	0.000	1	349
16	15.50	406	98	0.000	0	350
15	14.50	407	86	0.000	0	351
14	13.50	408	74	0.000	0	352
13	12.50	409	64	0.000	0	353
12	11.50	410	54	0.000	0	354
11	10.50	411	45	0.000	0	354
10	9.50	412	37	0.000	0	355
9	8.50	413	30	0.000	0	356
8	7.50	414	23	0.000	0	357
7	6.50	415	18	0.000	0	358
6	5.50	416	13	0.000	0	359
5	4.50	417	8	0.000	0	360
4	3.50	418	5	0.000	0	361
3	2.50	419	3	0.000	0	362
2	1.50	420	1	0.000	0	363
1	0.50	421	0	0.000	0	363
Andrew ABT-DMDF-ADBH	184.00	1	37	0.000	0	1
4' Omni	184.00	10	339	0.001	2	9
Powerwave Allgon LGP	184.00	85	2,864	0.005	14	73
Ericsson RRUS 11 (Ba	184.00	150	5,078	0.009	26	129
Ericsson RRUS-12 B2	184.00	174	5,891	0.010	30	150
Powerwave Allgon 777	184.00	210	7,110	0.013	36	181
KMW AM-X-CD-16-65-00	184.00	146	4,926	0.009	25	125
Flat Low Profile Pla	184.00	1,500	50,784	0.090	256	1,293
Empty Low Profile Pl	174.00	1,500	45,414	0.080	229	1,293
Ericsson KRY 112 144	163.00	33	877	0.002	4	28
Ericsson AIR 21, 1.3	163.00	249	6,616	0.012	33	215
Ericsson AIR 21, 1.3	163.00	244	6,496	0.011	33	211
Round T-Arm	163.00	750	19,927	0.035	101	647
Sinclair SD210-SF2P4	152.00	8	192	0.000	1	7
Round Side Arm	152.00	150	3,466	0.006	18	129
Bird 432-83H-01-T	146.00	25	533	0.001	3	22
Sinclair SC479-HF1LD	146.00	34	725	0.001	4	29
Round Side Arm	146.00	450	9,592	0.017	48	388
Decibel DB809DK-XT	146.00	128	2,728	0.005	14	110
Sinclair SC442D-HF1L	146.00	79	1,684	0.003	9	68
Telewave ANT150D (5	140.00	5	98	0.000	0	4
Bird 432-83H-01-T	140.00	50	980	0.002	5	43
Round Side Arm	140.00	450	8,820	0.016	45	388
Alcatel-Lucent 800 M	137.00	185	3,480	0.006	18	160
Alcatel-Lucent 1900M	137.00	132	2,478	0.004	13	114
Alcatel-Lucent TD-RR	137.00	210	3,941	0.007	20	181
RFS APXVTM14-C-I20	137.00	317	5,957	0.010	30	274
RFS APXVSPP18-C-A20	137.00	171	3,209	0.006	16	147
Flat Platform w/ Han	137.00	2,000	37,538	0.066	190	1,724
RFS FD9R6004/2C-3L	122.00	19	277	0.000	1	16
A Antel BXA-171085-1	122.00	30	447	0.001	2	26
A Antel BXA-171063-1	122.00	15	223	0.000	1	13
Amp Antel BXA-70063-	122.00	34	506	0.001	3	29
Antel LPA-80080/6CF	122.00	84	1,250	0.002	6	72
Antel LPA-80063/6CF	122.00	54	804	0.001	4	47
Amphenol Antel BXA-7	122.00	38	558	0.001	3	32
Round Low Profile Pl	122.00	1,500	22,326	0.039	113	1,293
Decibel DB844H90E-XY	113.00	168	2,145	0.004	11	145
Round Low Profile Pl	113.00	1,500	19,154	0.034	97	1,293
RFS APXV18-206517S-C	111.00	79	976	0.002	5	68

Andrew DB586	96.00	8	76	0.000	0	7
Andrew DB586	96.00	8	76	0.000	0	7
Bird 429-83H-01-T	96.00	20	184	0.000	1	17
Flat Side Arm	96.00	450	4,147	0.007	21	388
RFS PA6-65AC	80.00	278	1,779	0.003	9	240
PCTEL GPS-TMG-HR-26N	79.00	1	4	0.000	0	1
GPS	30.00	10	9	0.000	0	9
		60,343	567,401	1.000	2,866	52,030

Load Case (1.2 + 0.2Sds) * DL + E ELFM Seismic Equivalent Lateral Forces Method

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	-71.35	-2.47	0.00	-325.05	0.00	325.05	5,102.86	2,551.43	10,963.2	5,489.79	0.00	0.00	0.055
1.00	-70.83	-2.48	0.00	-322.58	0.00	322.58	5,088.23	2,544.11	10,885.6	5,450.89	0.00	0.00	0.055
2.00	-70.31	-2.48	0.00	-320.10	0.00	320.10	5,073.54	2,536.77	10,808.0	5,412.06	0.00	-0.01	0.055
3.00	-69.79	-2.48	0.00	-317.62	0.00	317.62	5,058.79	2,529.39	10,730.6	5,373.31	0.00	-0.01	0.054
4.00	-69.28	-2.49	0.00	-315.13	0.00	315.13	5,043.98	2,521.99	10,653.4	5,334.64	0.00	-0.01	0.054
5.00	-68.76	-2.49	0.00	-312.65	0.00	312.65	5,029.12	2,514.56	10,576.3	5,296.03	0.01	-0.01	0.054
6.00	-68.25	-2.49	0.00	-310.16	0.00	310.16	5,014.20	2,507.10	10,499.4	5,257.51	0.01	-0.02	0.054
7.00	-67.74	-2.50	0.00	-307.66	0.00	307.66	4,999.22	2,499.61	10,422.6	5,219.05	0.01	-0.02	0.054
8.00	-67.22	-2.50	0.00	-305.16	0.00	305.16	4,984.19	2,492.10	10,345.9	5,180.68	0.02	-0.02	0.054
9.00	-66.71	-2.50	0.00	-302.66	0.00	302.66	4,969.10	2,484.55	10,269.5	5,142.38	0.02	-0.02	0.053
10.00	-66.21	-2.51	0.00	-300.16	0.00	300.16	4,953.95	2,476.98	10,193.1	5,104.17	0.03	-0.03	0.053
11.00	-65.70	-2.51	0.00	-297.66	0.00	297.66	4,938.75	2,469.37	10,117.0	5,066.03	0.04	-0.03	0.053
12.00	-65.19	-2.51	0.00	-295.15	0.00	295.15	4,923.49	2,461.74	10,041.0	5,027.97	0.04	-0.03	0.053
13.00	-64.69	-2.51	0.00	-292.64	0.00	292.64	4,908.17	2,454.08	9,965.17	4,989.99	0.05	-0.04	0.053
14.00	-64.18	-2.52	0.00	-290.12	0.00	290.12	4,892.79	2,446.40	9,889.49	4,952.10	0.06	-0.04	0.053
15.00	-63.68	-2.52	0.00	-287.61	0.00	287.61	4,877.36	2,438.68	9,813.98	4,914.28	0.07	-0.04	0.052
16.00	-63.18	-2.52	0.00	-285.09	0.00	285.09	4,861.87	2,430.94	9,738.63	4,876.55	0.07	-0.04	0.052
17.00	-62.68	-2.52	0.00	-282.57	0.00	282.57	4,846.32	2,423.16	9,663.45	4,838.91	0.08	-0.05	0.052
18.00	-62.18	-2.52	0.00	-280.05	0.00	280.05	4,830.72	2,415.36	9,588.44	4,801.34	0.09	-0.05	0.052
19.00	-61.68	-2.53	0.00	-277.52	0.00	277.52	4,815.06	2,407.53	9,513.60	4,763.87	0.11	-0.05	0.052
20.00	-61.19	-2.53	0.00	-275.00	0.00	275.00	4,799.34	2,399.67	9,438.93	4,726.48	0.12	-0.06	0.052
21.00	-60.69	-2.53	0.00	-272.47	0.00	272.47	4,783.57	2,391.78	9,364.44	4,689.18	0.13	-0.06	0.051
22.00	-60.20	-2.53	0.00	-269.94	0.00	269.94	4,767.74	2,383.87	9,290.12	4,651.96	0.14	-0.06	0.051
23.00	-59.71	-2.53	0.00	-267.41	0.00	267.41	4,751.85	2,375.92	9,215.98	4,614.84	0.15	-0.06	0.051
24.00	-59.21	-2.53	0.00	-264.87	0.00	264.87	4,735.90	2,367.95	9,142.01	4,577.80	0.17	-0.07	0.051
25.00	-58.72	-2.54	0.00	-262.34	0.00	262.34	4,719.90	2,359.95	9,068.23	4,540.86	0.18	-0.07	0.051
26.00	-58.24	-2.54	0.00	-259.80	0.00	259.80	4,703.84	2,351.92	8,994.63	4,504.00	0.20	-0.07	0.051
27.00	-57.75	-2.54	0.00	-257.27	0.00	257.27	4,687.72	2,343.86	8,921.22	4,467.24	0.21	-0.08	0.050
28.00	-57.26	-2.54	0.00	-254.73	0.00	254.73	4,671.55	2,335.77	8,847.98	4,430.57	0.23	-0.08	0.050
29.00	-56.78	-2.54	0.00	-252.19	0.00	252.19	4,655.31	2,327.66	8,774.94	4,393.99	0.25	-0.08	0.050
30.00	-56.28	-2.54	0.00	-249.66	0.00	249.66	4,639.03	2,319.51	8,702.08	4,357.51	0.26	-0.09	0.050
31.00	-55.80	-2.54	0.00	-247.12	0.00	247.12	4,622.68	2,311.34	8,629.41	4,321.12	0.28	-0.09	0.050
32.00	-55.32	-2.54	0.00	-244.58	0.00	244.58	4,606.28	2,303.14	8,556.93	4,284.83	0.30	-0.09	0.049
33.00	-54.84	-2.54	0.00	-242.04	0.00	242.04	4,589.82	2,294.91	8,484.65	4,248.63	0.32	-0.09	0.049
34.00	-54.36	-2.54	0.00	-239.50	0.00	239.50	4,573.30	2,286.65	8,412.56	4,212.53	0.34	-0.10	0.049
35.00	-53.89	-2.54	0.00	-236.96	0.00	236.96	4,556.73	2,278.36	8,340.67	4,176.53	0.36	-0.10	0.049
36.00	-53.41	-2.54	0.00	-234.42	0.00	234.42	4,540.10	2,270.05	8,268.97	4,140.63	0.38	-0.10	0.048
37.00	-52.94	-2.54	0.00	-231.89	0.00	231.89	4,523.41	2,261.70	8,197.47	4,104.83	0.41	-0.11	0.048
38.00	-52.47	-2.54	0.00	-229.35	0.00	229.35	4,506.66	2,253.33	8,126.17	4,069.13	0.43	-0.11	0.048
39.00	-51.99	-2.53	0.00	-226.82	0.00	226.82	4,489.86	2,244.93	8,055.08	4,033.53	0.45	-0.11	0.048
40.00	-51.52	-2.53	0.00	-224.28	0.00	224.28	4,473.00	2,236.50	7,984.18	3,998.03	0.48	-0.12	0.048
41.00	-51.06	-2.53	0.00	-221.75	0.00	221.75	4,456.09	2,228.04	7,913.50	3,962.63	0.50	-0.12	0.047
42.00	-50.61	-2.53	0.00	-219.22	0.00	219.22	4,439.11	2,219.56	7,843.02	3,927.34	0.53	-0.12	0.047
42.96	-50.58	-2.53	0.00	-216.80	0.00	216.80	4,422.82	2,211.41	7,775.79	3,893.68	0.55	-0.12	0.047
43.00	-49.89	-2.53	0.00	-216.69	0.00	216.69	4,422.08	2,211.04	7,772.74	3,892.15	0.55	-0.12	0.046
44.00	-49.21	-2.52	0.00	-214.16	0.00	214.16	4,400.67	2,200.33	7,695.11	3,853.28	0.58	-0.13	0.046
45.00	-48.53	-2.52	0.00	-211.64	0.00	211.64	4,378.03	2,189.01	7,615.75	3,813.53	0.60	-0.13	0.046
46.00	-47.85	-2.51	0.00	-209.12	0.00	209.12	4,355.39	2,177.70	7,536.79	3,773.99	0.63	-0.13	0.046
47.00	-47.18	-2.51	0.00	-206.61	0.00	206.61	4,332.75	2,166.38	7,458.24	3,734.66	0.66	-0.14	0.046
48.00	-46.51	-2.50	0.00	-204.11	0.00	204.11	4,310.11	2,155.06	7,380.10	3,695.54	0.69	-0.14	0.045
49.00	-46.48	-2.50	0.00	-201.61	0.00	201.61	4,287.47	2,143.74	7,302.38	3,656.62	0.72	-0.14	0.045
49.04	-46.07	-2.50	0.00	-201.51	0.00	201.51	3,604.17	1,802.08	6,267.69	3,138.50	0.72	-0.14	0.051
50.00	-45.64	-2.49	0.00	-199.11	0.00	199.11	3,591.50	1,795.75	6,214.33	3,111.78	0.75	-0.15	0.051
51.00	-45.22	-2.49	0.00	-196.61	0.00	196.61	3,578.26	1,789.13	6,158.90	3,084.03	0.78	-0.15	0.050
52.00	-44.79	-2.49	0.00	-194.12	0.00	194.12	3,564.96	1,782.48	6,103.60	3,056.34	0.81	-0.15	0.050
53.00	-44.37	-2.48	0.00	-191.63	0.00	191.63	3,551.60	1,775.80	6,048.46	3,028.72	0.84	-0.16	0.050

54.00	-43.95	-2.48	0.00	-189.15	0.00	189.15	3,538.18	1,769.09	5,993.45	3,001.18	0.88	-0.16	0.049
55.00	-43.52	-2.48	0.00	-186.67	0.00	186.67	3,524.70	1,762.35	5,938.60	2,973.71	0.91	-0.16	0.049
56.00	-43.10	-2.47	0.00	-184.19	0.00	184.19	3,511.17	1,755.59	5,883.90	2,946.32	0.94	-0.17	0.049
57.00	-42.68	-2.47	0.00	-181.72	0.00	181.72	3,497.59	1,748.79	5,829.34	2,919.00	0.98	-0.17	0.048
58.00	-42.27	-2.46	0.00	-179.25	0.00	179.25	3,483.94	1,741.97	5,774.94	2,891.76	1.02	-0.17	0.048
59.00	-41.85	-2.46	0.00	-176.79	0.00	176.79	3,470.24	1,735.12	5,720.69	2,864.60	1.05	-0.18	0.048
60.00	-41.43	-2.45	0.00	-174.33	0.00	174.33	3,456.48	1,728.24	5,666.60	2,837.51	1.09	-0.18	0.047
61.00	-41.02	-2.45	0.00	-171.88	0.00	171.88	3,442.66	1,721.33	5,612.67	2,810.51	1.13	-0.18	0.047
62.00	-40.61	-2.44	0.00	-169.43	0.00	169.43	3,428.79	1,714.39	5,558.89	2,783.58	1.17	-0.18	0.047
63.00	-40.19	-2.44	0.00	-166.99	0.00	166.99	3,414.86	1,707.43	5,505.28	2,756.73	1.20	-0.19	0.046
64.00	-39.78	-2.43	0.00	-164.55	0.00	164.55	3,400.87	1,700.44	5,451.82	2,729.96	1.24	-0.19	0.046
65.00	-39.37	-2.42	0.00	-162.12	0.00	162.12	3,386.83	1,693.41	5,398.53	2,703.28	1.28	-0.19	0.046
66.00	-38.96	-2.42	0.00	-159.69	0.00	159.69	3,372.72	1,686.36	5,345.41	2,676.68	1.33	-0.20	0.045
67.00	-38.55	-2.41	0.00	-157.28	0.00	157.28	3,358.57	1,679.28	5,292.45	2,650.16	1.37	-0.20	0.045
68.00	-38.15	-2.40	0.00	-154.87	0.00	154.87	3,344.35	1,672.18	5,239.65	2,623.72	1.41	-0.20	0.045
69.00	-37.74	-2.40	0.00	-152.46	0.00	152.46	3,330.08	1,665.04	5,187.03	2,597.37	1.45	-0.21	0.044
70.00	-37.34	-2.39	0.00	-150.07	0.00	150.07	3,315.75	1,657.87	5,134.58	2,571.11	1.50	-0.21	0.044
71.00	-36.93	-2.38	0.00	-147.68	0.00	147.68	3,301.36	1,650.68	5,082.30	2,544.93	1.54	-0.21	0.044
72.00	-36.53	-2.37	0.00	-145.30	0.00	145.30	3,286.92	1,643.46	5,030.20	2,518.84	1.59	-0.22	0.043
73.00	-36.13	-2.36	0.00	-142.92	0.00	142.92	3,272.42	1,636.21	4,978.27	2,492.84	1.63	-0.22	0.043
74.00	-35.73	-2.36	0.00	-140.56	0.00	140.56	3,257.86	1,628.93	4,926.52	2,466.92	1.68	-0.22	0.042
75.00	-35.33	-2.35	0.00	-138.20	0.00	138.20	3,242.30	1,621.15	4,873.54	2,440.39	1.73	-0.23	0.042
76.00	-34.93	-2.34	0.00	-135.86	0.00	135.86	3,222.90	1,611.45	4,815.08	2,411.12	1.77	-0.23	0.042
77.00	-34.53	-2.33	0.00	-133.52	0.00	133.52	3,203.49	1,601.75	4,756.98	2,382.03	1.82	-0.23	0.041
78.00	-34.14	-2.32	0.00	-131.19	0.00	131.19	3,184.09	1,592.04	4,699.23	2,353.11	1.87	-0.24	0.041
79.00	-33.74	-2.31	0.00	-128.87	0.00	128.87	3,164.68	1,582.34	4,641.84	2,324.37	1.92	-0.24	0.041
80.00	-33.00	-2.29	0.00	-126.56	0.00	126.56	3,145.28	1,572.64	4,584.79	2,295.80	1.97	-0.24	0.040
81.00	-32.61	-2.28	0.00	-124.27	0.00	124.27	3,125.87	1,562.94	4,528.10	2,267.42	2.02	-0.25	0.040
82.00	-32.22	-2.27	0.00	-122.00	0.00	122.00	3,106.47	1,553.24	4,471.77	2,239.21	2.08	-0.25	0.039
83.00	-31.83	-2.26	0.00	-119.73	0.00	119.73	3,087.07	1,543.53	4,415.78	2,211.17	2.13	-0.25	0.039
84.00	-31.44	-2.24	0.00	-117.47	0.00	117.47	3,067.66	1,533.83	4,360.15	2,183.32	2.18	-0.26	0.039
85.00	-31.06	-2.23	0.00	-115.23	0.00	115.23	3,048.26	1,524.13	4,304.87	2,155.63	2.24	-0.26	0.038
86.00	-30.67	-2.22	0.00	-112.99	0.00	112.99	3,028.85	1,514.43	4,249.94	2,128.13	2.29	-0.26	0.038
87.00	-30.46	-2.22	0.00	-110.77	0.00	110.77	3,009.45	1,504.72	4,195.37	2,100.80	2.35	-0.26	0.038
87.54	-30.22	-2.21	0.00	-109.58	0.00	109.58	2,998.97	1,499.48	4,166.05	2,086.12	2.38	-0.27	0.037
88.00	-29.69	-2.19	0.00	-108.56	0.00	108.56	2,990.04	1,495.02	4,141.15	2,073.65	2.40	-0.27	0.037
89.00	-29.16	-2.17	0.00	-106.37	0.00	106.37	2,970.64	1,485.32	4,087.28	2,046.68	2.46	-0.27	0.036
90.00	-28.64	-2.15	0.00	-104.20	0.00	104.20	2,951.23	1,475.62	4,033.76	2,019.88	2.51	-0.27	0.036
91.00	-28.12	-2.13	0.00	-102.05	0.00	102.05	2,931.83	1,465.91	3,980.60	1,993.26	2.57	-0.28	0.036
92.00	-27.88	-2.13	0.00	-99.92	0.00	99.92	2,912.42	1,456.21	3,927.79	1,966.81	2.63	-0.28	0.035
92.46	-27.69	-2.12	0.00	-98.95	0.00	98.95	2,412.07	1,206.04	3,317.78	1,661.36	2.66	-0.28	0.039
93.00	-27.33	-2.11	0.00	-97.80	0.00	97.80	2,405.85	1,202.93	3,297.34	1,651.12	2.69	-0.28	0.039
94.00	-26.98	-2.09	0.00	-95.69	0.00	95.69	2,394.36	1,197.18	3,259.83	1,632.34	2.75	-0.29	0.038
95.00	-26.63	-2.08	0.00	-93.60	0.00	93.60	2,382.81	1,191.41	3,222.46	1,613.62	2.81	-0.29	0.038
96.00	-25.67	-2.04	0.00	-91.52	0.00	91.52	2,371.21	1,185.60	3,185.22	1,594.98	2.87	-0.29	0.037
97.00	-25.33	-2.03	0.00	-89.48	0.00	89.48	2,359.55	1,179.77	3,148.11	1,576.40	2.93	-0.30	0.037
98.00	-24.98	-2.01	0.00	-87.46	0.00	87.46	2,347.83	1,173.91	3,111.14	1,557.88	2.99	-0.30	0.036
99.00	-24.63	-2.00	0.00	-85.45	0.00	85.45	2,336.05	1,168.03	3,074.31	1,539.44	3.06	-0.30	0.035
100.00	-24.28	-1.98	0.00	-83.45	0.00	83.45	2,324.22	1,162.11	3,037.61	1,521.06	3.12	-0.30	0.035
101.00	-23.94	-1.97	0.00	-81.47	0.00	81.47	2,312.33	1,156.16	3,001.06	1,502.76	3.18	-0.31	0.034
102.00	-23.59	-1.95	0.00	-79.50	0.00	79.50	2,300.38	1,150.19	2,964.65	1,484.53	3.25	-0.31	0.034
103.00	-23.25	-1.94	0.00	-77.55	0.00	77.55	2,288.38	1,144.19	2,928.39	1,466.37	3.31	-0.31	0.033
104.00	-23.08	-1.93	0.00	-75.62	0.00	75.62	2,276.31	1,138.16	2,892.27	1,448.28	3.38	-0.32	0.033
104.50	-22.95	-1.92	0.00	-74.65	0.00	74.65	2,270.26	1,135.13	2,874.26	1,439.27	3.41	-0.32	0.033
104.50	-22.95	-1.92	0.00	-74.65	0.00	74.65	2,270.26	1,135.13	2,874.26	1,439.27	3.41	-0.32	0.062
105.00	-22.69	-1.91	0.00	-73.69	0.00	73.69	2,264.20	1,132.10	2,856.29	1,430.27	3.45	-0.32	0.062
106.00	-22.43	-1.90	0.00	-71.78	0.00	71.78	2,251.29	1,125.65	2,819.56	1,411.88	3.51	-0.32	0.061
107.00	-22.17	-1.89	0.00	-69.88	0.00	69.88	2,235.12	1,117.56	2,779.00	1,391.56	3.58	-0.33	0.060
108.00	-21.91	-1.88	0.00	-68.00	0.00	68.00	2,218.95	1,109.48	2,738.73	1,371.40	3.65	-0.34	0.059
109.00	-21.66	-1.86	0.00	-66.12	0.00	66.12	2,202.78	1,101.39	2,698.75	1,351.38	3.72	-0.34	0.059
110.00	-21.40	-1.85	0.00	-64.26	0.00	64.26	2,186.61	1,093.30	2,659.07	1,331.51	3.80	-0.35	0.058
111.00	-21.05	-1.83	0.00	-62.41	0.00	62.41	2,170.44	1,085.22	2,619.69	1,311.79	3.87	-0.35	0.057
112.00	-20.83	-1.82	0.00	-60.57	0.00	60.57	2,154.27	1,077.13	2,580.59	1,292.21	3.94	-0.36	0.057
113.00	-18.59	-1.69	0.00	-58.75	0.00	58.75	2,138.10	1,069.05	2,541.79	1,272.79	4.02	-0.36	0.055

114.00	-18.40	-1.68	0.00	-57.06	0.00	57.06	2,121.93	1,060.96	2,503.29	1,253.50	4.10	-0.37	0.054
115.00	-18.22	-1.67	0.00	-55.37	0.00	55.37	2,105.76	1,052.88	2,465.08	1,234.37	4.17	-0.37	0.054
116.00	-18.04	-1.67	0.00	-53.70	0.00	53.70	2,089.59	1,044.79	2,427.16	1,215.38	4.25	-0.38	0.053
117.00	-17.86	-1.66	0.00	-52.03	0.00	52.03	2,073.42	1,036.71	2,389.54	1,196.54	4.33	-0.38	0.052
118.00	-17.68	-1.65	0.00	-50.38	0.00	50.38	2,057.25	1,028.62	2,352.21	1,177.85	4.42	-0.39	0.051
119.00	-17.50	-1.64	0.00	-48.73	0.00	48.73	2,041.07	1,020.54	2,315.17	1,159.31	4.50	-0.40	0.051
120.00	-17.33	-1.63	0.00	-47.10	0.00	47.10	2,024.90	1,012.45	2,278.43	1,140.91	4.58	-0.40	0.050
121.00	-17.15	-1.62	0.00	-45.47	0.00	45.47	2,008.73	1,004.37	2,241.98	1,122.66	4.67	-0.41	0.049
122.00	-14.79	-1.46	0.00	-43.85	0.00	43.85	1,992.56	996.28	2,205.83	1,104.55	4.75	-0.41	0.047
123.00	-14.63	-1.45	0.00	-42.40	0.00	42.40	1,976.39	988.20	2,169.97	1,086.60	4.84	-0.42	0.046
124.00	-14.47	-1.44	0.00	-40.95	0.00	40.95	1,960.22	980.11	2,134.40	1,068.79	4.92	-0.42	0.046
125.00	-14.31	-1.43	0.00	-39.51	0.00	39.51	1,944.05	972.03	2,099.13	1,051.12	5.01	-0.43	0.045
126.00	-14.15	-1.42	0.00	-38.09	0.00	38.09	1,927.88	963.94	2,064.15	1,033.61	5.10	-0.43	0.044
127.00	-13.99	-1.41	0.00	-36.67	0.00	36.67	1,911.71	955.86	2,029.46	1,016.24	5.19	-0.43	0.043
128.00	-13.83	-1.39	0.00	-35.27	0.00	35.27	1,895.54	947.77	1,995.07	999.02	5.29	-0.44	0.043
129.00	-13.68	-1.38	0.00	-33.87	0.00	33.87	1,879.37	939.68	1,960.98	981.95	5.38	-0.44	0.042
130.00	-13.52	-1.37	0.00	-32.49	0.00	32.49	1,863.20	931.60	1,927.17	965.02	5.47	-0.45	0.041
131.00	-13.37	-1.36	0.00	-31.12	0.00	31.12	1,847.03	923.51	1,893.66	948.24	5.57	-0.45	0.040
132.00	-13.35	-1.36	0.00	-29.75	0.00	29.75	1,830.86	915.43	1,860.45	931.61	5.66	-0.46	0.039
132.12	-13.16	-1.35	0.00	-29.59	0.00	29.59	1,828.92	914.46	1,856.49	929.63	5.67	-0.46	0.039
133.00	-12.94	-1.33	0.00	-28.41	0.00	28.41	1,814.69	907.34	1,827.53	915.12	5.76	-0.46	0.038
134.00	-12.73	-1.31	0.00	-27.08	0.00	27.08	1,798.52	899.26	1,794.90	898.78	5.85	-0.47	0.037
135.00	-12.54	-1.30	0.00	-25.76	0.00	25.76	1,782.35	891.17	1,762.57	882.59	5.95	-0.47	0.036
135.87	-12.53	-1.30	0.00	-24.63	0.00	24.63	993.95	496.97	1,000.68	501.09	6.04	-0.47	0.062
136.00	-12.42	-1.29	0.00	-24.47	0.00	24.47	993.20	496.60	998.76	500.12	6.05	-0.47	0.061
137.00	-8.58	-0.96	0.00	-23.18	0.00	23.18	987.45	493.72	984.00	492.73	6.15	-0.48	0.056
138.00	-8.47	-0.96	0.00	-22.21	0.00	22.21	981.64	490.82	969.28	485.36	6.25	-0.49	0.054
139.00	-8.37	-0.95	0.00	-21.26	0.00	21.26	975.77	487.88	954.62	478.02	6.36	-0.49	0.053
140.00	-7.64	-0.88	0.00	-20.31	0.00	20.31	969.84	484.92	940.01	470.70	6.46	-0.50	0.051
141.00	-7.53	-0.88	0.00	-19.43	0.00	19.43	963.86	481.93	925.45	463.41	6.56	-0.50	0.050
142.00	-7.43	-0.87	0.00	-18.55	0.00	18.55	957.82	478.91	910.95	456.15	6.67	-0.51	0.048
143.00	-7.33	-0.86	0.00	-17.68	0.00	17.68	951.72	475.86	896.50	448.92	6.78	-0.51	0.047
144.00	-7.23	-0.85	0.00	-16.83	0.00	16.83	945.56	472.78	882.11	441.71	6.89	-0.52	0.046
145.00	-7.13	-0.84	0.00	-15.98	0.00	15.98	939.35	469.68	867.78	434.53	7.00	-0.53	0.044
146.00	-6.15	-0.75	0.00	-15.14	0.00	15.14	933.08	466.54	853.51	427.39	7.11	-0.53	0.042
147.00	-6.05	-0.74	0.00	-14.39	0.00	14.39	926.76	463.38	839.30	420.27	7.22	-0.54	0.041
148.00	-5.96	-0.73	0.00	-13.66	0.00	13.66	920.37	460.19	825.16	413.19	7.33	-0.54	0.040
149.00	-5.87	-0.72	0.00	-12.93	0.00	12.93	913.93	456.97	811.08	406.14	7.44	-0.55	0.038
150.00	-5.78	-0.71	0.00	-12.21	0.00	12.21	907.44	453.72	797.07	399.13	7.56	-0.55	0.037
151.00	-5.69	-0.70	0.00	-11.50	0.00	11.50	900.88	450.44	783.12	392.14	7.68	-0.55	0.036
152.00	-5.40	-0.67	0.00	-10.79	0.00	10.79	894.27	447.14	769.25	385.20	7.79	-0.56	0.034
153.00	-5.31	-0.66	0.00	-10.12	0.00	10.12	887.60	443.80	755.45	378.29	7.91	-0.56	0.033
154.00	-5.23	-0.66	0.00	-9.46	0.00	9.46	880.88	440.44	741.72	371.41	8.03	-0.57	0.031
155.00	-5.14	-0.65	0.00	-8.80	0.00	8.80	874.09	437.05	728.06	364.57	8.15	-0.57	0.030
156.00	-5.05	-0.64	0.00	-8.16	0.00	8.16	867.26	433.63	714.49	357.77	8.27	-0.58	0.029
157.00	-4.97	-0.63	0.00	-7.52	0.00	7.52	860.36	430.18	700.99	351.01	8.39	-0.58	0.027
158.00	-4.88	-0.62	0.00	-6.89	0.00	6.89	853.41	426.70	687.57	344.29	8.51	-0.58	0.026
159.00	-4.79	-0.61	0.00	-6.27	0.00	6.27	846.39	423.20	674.23	337.61	8.63	-0.59	0.024
160.00	-4.71	-0.60	0.00	-5.67	0.00	5.67	839.33	419.66	660.97	330.98	8.76	-0.59	0.023
161.00	-4.63	-0.59	0.00	-5.07	0.00	5.07	832.20	416.10	647.80	324.38	8.88	-0.59	0.021
162.00	-4.54	-0.58	0.00	-4.48	0.00	4.48	825.02	412.51	634.71	317.83	9.00	-0.59	0.020
163.00	-2.89	-0.38	0.00	-3.90	0.00	3.90	817.78	408.89	621.71	311.32	9.13	-0.60	0.016
164.00	-2.82	-0.38	0.00	-3.51	0.00	3.51	810.15	405.07	608.54	304.72	9.25	-0.60	0.015
165.00	-2.76	-0.37	0.00	-3.14	0.00	3.14	800.44	400.22	593.98	297.43	9.38	-0.60	0.014
166.00	-2.69	-0.36	0.00	-2.77	0.00	2.77	790.74	395.37	579.60	290.23	9.51	-0.60	0.013
167.00	-2.62	-0.35	0.00	-2.41	0.00	2.41	781.04	390.52	565.39	283.11	9.63	-0.60	0.012
168.00	-2.55	-0.34	0.00	-2.06	0.00	2.06	771.34	385.67	551.35	276.09	9.76	-0.61	0.011
169.00	-2.49	-0.33	0.00	-1.72	0.00	1.72	761.63	380.82	537.50	269.15	9.89	-0.61	0.010
170.00	-2.42	-0.33	0.00	-1.38	0.00	1.38	751.93	375.97	523.82	262.30	10.01	-0.61	0.008
171.00	-2.36	-0.32	0.00	-1.06	0.00	1.06	742.23	371.11	510.32	255.54	10.14	-0.61	0.007
172.00	-2.29	-0.31	0.00	-0.74	0.00	0.74	732.53	366.26	496.99	248.86	10.27	-0.61	0.006
173.00	-2.23	-0.30	0.00	-0.43	0.00	0.43	722.82	361.41	483.84	242.28	10.40	-0.61	0.005
174.00	-0.31	-0.04	0.00	-0.13	0.00	0.13	713.12	356.56	470.86	235.78	10.53	-0.61	0.001
175.00	-0.25	-0.03	0.00	-0.09	0.00	0.09	703.42	351.71	458.07	229.37	10.65	-0.61	0.001

176.00	-0.18	-0.03	0.00	-0.05	0.00	0.05	693.72	346.86	445.44	223.05	10.78	-0.61	0.000
177.00	-0.12	-0.02	0.00	-0.03	0.00	0.03	684.02	342.01	433.00	216.82	10.91	-0.61	0.000
178.00	-0.06	-0.01	0.00	-0.01	0.00	0.01	674.31	337.16	420.73	210.68	11.04	-0.61	0.000
179.00	0.00	0.00	0.00	0.00	0.00	0.00	664.61	332.31	408.64	204.62	11.17	-0.61	0.000
180.00	0.00	0.00	0.00	0.00	0.00	0.00	654.91	327.45	396.72	198.65	11.29	-0.61	0.000

Load Case (0.9 - 0.2Sds) * DL + E ELFM Seismic (Reduced DL) Equivalent Lateral Forces Method

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	-49.71	-2.47	0.00	-319.93	0.00	319.93	5,102.86	2,551.43	10,963.2	5,489.79	0.00	0.00	0.051
1.00	-49.34	-2.48	0.00	-317.46	0.00	317.46	5,088.23	2,544.11	10,885.6	5,450.89	0.00	0.00	0.051
2.00	-48.98	-2.48	0.00	-314.98	0.00	314.98	5,073.54	2,536.77	10,808.0	5,412.06	0.00	-0.01	0.051
3.00	-48.62	-2.48	0.00	-312.50	0.00	312.50	5,058.79	2,529.39	10,730.6	5,373.31	0.00	-0.01	0.050
4.00	-48.26	-2.48	0.00	-310.02	0.00	310.02	5,043.98	2,521.99	10,653.4	5,334.64	0.00	-0.01	0.050
5.00	-47.90	-2.49	0.00	-307.54	0.00	307.54	5,029.12	2,514.56	10,576.3	5,296.03	0.01	-0.01	0.050
6.00	-47.54	-2.49	0.00	-305.05	0.00	305.05	5,014.20	2,507.10	10,499.4	5,257.51	0.01	-0.02	0.050
7.00	-47.19	-2.49	0.00	-302.56	0.00	302.56	4,999.22	2,499.61	10,422.6	5,219.05	0.01	-0.02	0.050
8.00	-46.83	-2.49	0.00	-300.07	0.00	300.07	4,984.19	2,492.10	10,345.9	5,180.68	0.02	-0.02	0.050
9.00	-46.47	-2.49	0.00	-297.58	0.00	297.58	4,969.10	2,484.55	10,269.5	5,142.38	0.02	-0.02	0.050
10.00	-46.12	-2.50	0.00	-295.09	0.00	295.09	4,953.95	2,476.98	10,193.1	5,104.17	0.03	-0.03	0.049
11.00	-45.77	-2.50	0.00	-292.59	0.00	292.59	4,938.75	2,469.37	10,117.0	5,066.03	0.03	-0.03	0.049
12.00	-45.41	-2.50	0.00	-290.09	0.00	290.09	4,923.49	2,461.74	10,041.0	5,027.97	0.04	-0.03	0.049
13.00	-45.06	-2.50	0.00	-287.60	0.00	287.60	4,908.17	2,454.08	9,965.17	4,989.99	0.05	-0.04	0.049
14.00	-44.71	-2.50	0.00	-285.09	0.00	285.09	4,892.79	2,446.40	9,889.49	4,952.10	0.06	-0.04	0.049
15.00	-44.36	-2.50	0.00	-282.59	0.00	282.59	4,877.36	2,438.68	9,813.98	4,914.28	0.06	-0.04	0.049
16.00	-44.01	-2.50	0.00	-280.09	0.00	280.09	4,861.87	2,430.94	9,738.63	4,876.55	0.07	-0.04	0.049
17.00	-43.66	-2.51	0.00	-277.58	0.00	277.58	4,846.32	2,423.16	9,663.45	4,838.91	0.08	-0.05	0.048
18.00	-43.31	-2.51	0.00	-275.08	0.00	275.08	4,830.72	2,415.36	9,588.44	4,801.34	0.09	-0.05	0.048
19.00	-42.97	-2.51	0.00	-272.57	0.00	272.57	4,815.06	2,407.53	9,513.60	4,763.87	0.10	-0.05	0.048
20.00	-42.62	-2.51	0.00	-270.06	0.00	270.06	4,799.34	2,399.67	9,438.93	4,726.48	0.11	-0.06	0.048
21.00	-42.28	-2.51	0.00	-267.55	0.00	267.55	4,783.57	2,391.78	9,364.44	4,689.18	0.13	-0.06	0.048
22.00	-41.93	-2.51	0.00	-265.04	0.00	265.04	4,767.74	2,383.87	9,290.12	4,651.96	0.14	-0.06	0.048
23.00	-41.59	-2.51	0.00	-262.53	0.00	262.53	4,751.85	2,375.92	9,215.98	4,614.84	0.15	-0.06	0.047
24.00	-41.25	-2.51	0.00	-260.02	0.00	260.02	4,735.90	2,367.95	9,142.01	4,577.80	0.17	-0.07	0.047
25.00	-40.91	-2.51	0.00	-257.51	0.00	257.51	4,719.90	2,359.95	9,068.23	4,540.86	0.18	-0.07	0.047
26.00	-40.57	-2.51	0.00	-255.00	0.00	255.00	4,703.84	2,351.92	8,994.63	4,504.00	0.19	-0.07	0.047
27.00	-40.23	-2.51	0.00	-252.49	0.00	252.49	4,687.72	2,343.86	8,921.22	4,467.24	0.21	-0.08	0.047
28.00	-39.89	-2.51	0.00	-249.97	0.00	249.97	4,671.55	2,335.77	8,847.98	4,430.57	0.23	-0.08	0.047
29.00	-39.55	-2.51	0.00	-247.46	0.00	247.46	4,655.31	2,327.66	8,774.94	4,393.99	0.24	-0.08	0.046
30.00	-39.21	-2.51	0.00	-244.95	0.00	244.95	4,639.03	2,319.51	8,702.08	4,357.51	0.26	-0.08	0.046
31.00	-38.87	-2.51	0.00	-242.44	0.00	242.44	4,622.68	2,311.34	8,629.41	4,321.12	0.28	-0.09	0.046
32.00	-38.54	-2.51	0.00	-239.92	0.00	239.92	4,606.28	2,303.14	8,556.93	4,284.83	0.30	-0.09	0.046
33.00	-38.20	-2.51	0.00	-237.41	0.00	237.41	4,589.82	2,294.91	8,484.65	4,248.63	0.32	-0.09	0.046
34.00	-37.87	-2.51	0.00	-234.90	0.00	234.90	4,573.30	2,286.65	8,412.56	4,212.53	0.34	-0.10	0.045
35.00	-37.54	-2.51	0.00	-232.39	0.00	232.39	4,556.73	2,278.36	8,340.67	4,176.53	0.36	-0.10	0.045
36.00	-37.21	-2.51	0.00	-229.89	0.00	229.89	4,540.10	2,270.05	8,268.97	4,140.63	0.38	-0.10	0.045
37.00	-36.88	-2.51	0.00	-227.38	0.00	227.38	4,523.41	2,261.70	8,197.47	4,104.83	0.40	-0.10	0.045
38.00	-36.55	-2.50	0.00	-224.87	0.00	224.87	4,506.66	2,253.33	8,126.17	4,069.13	0.42	-0.11	0.045
39.00	-36.22	-2.50	0.00	-222.37	0.00	222.37	4,489.86	2,244.93	8,055.08	4,033.53	0.44	-0.11	0.044
40.00	-35.89	-2.50	0.00	-219.87	0.00	219.87	4,473.00	2,236.50	7,984.18	3,998.03	0.47	-0.11	0.044
41.00	-35.56	-2.50	0.00	-217.37	0.00	217.37	4,456.09	2,228.04	7,913.50	3,962.63	0.49	-0.12	0.044
42.00	-35.25	-2.50	0.00	-214.87	0.00	214.87	4,439.11	2,219.56	7,843.02	3,927.34	0.52	-0.12	0.044
42.96	-35.23	-2.50	0.00	-212.48	0.00	212.48	4,422.82	2,211.41	7,775.79	3,893.68	0.54	-0.12	0.044
43.00	-34.76	-2.49	0.00	-212.37	0.00	212.37	4,422.08	2,211.04	7,772.74	3,892.15	0.54	-0.12	0.043
44.00	-34.28	-2.49	0.00	-209.88	0.00	209.88	4,400.67	2,200.33	7,695.11	3,853.28	0.57	-0.13	0.043
45.00	-33.81	-2.48	0.00	-207.40	0.00	207.40	4,378.03	2,189.01	7,615.75	3,813.53	0.59	-0.13	0.043
46.00	-33.33	-2.48	0.00	-204.92	0.00	204.92	4,355.39	2,177.70	7,536.79	3,773.99	0.62	-0.13	0.043
47.00	-32.86	-2.47	0.00	-202.44	0.00	202.44	4,332.75	2,166.38	7,458.24	3,734.66	0.65	-0.13	0.042
48.00	-32.40	-2.46	0.00	-199.97	0.00	199.97	4,310.11	2,155.06	7,380.10	3,695.54	0.68	-0.14	0.042
49.00	-32.38	-2.47	0.00	-197.50	0.00	197.50	4,287.47	2,143.74	7,302.38	3,656.62	0.71	-0.14	0.042
49.04	-32.09	-2.46	0.00	-197.41	0.00	197.41	3,604.17	1,802.08	6,267.69	3,138.50	0.71	-0.14	0.047
50.00	-31.79	-2.46	0.00	-195.04	0.00	195.04	3,591.50	1,795.75	6,214.33	3,111.78	0.74	-0.14	0.047
51.00	-31.50	-2.45	0.00	-192.59	0.00	192.59	3,578.26	1,789.13	6,158.90	3,084.03	0.77	-0.15	0.047
52.00	-31.20	-2.45	0.00	-190.13	0.00	190.13	3,564.96	1,782.48	6,103.60	3,056.34	0.80	-0.15	0.047
53.00	-30.91	-2.45	0.00	-187.68	0.00	187.68	3,551.60	1,775.80	6,048.46	3,028.72	0.83	-0.15	0.046

54.00	-30.61	-2.44	0.00	-185.23	0.00	185.23	3,538.18	1,769.09	5,993.45	3,001.18	0.86	-0.16	0.046
55.00	-30.32	-2.44	0.00	-182.79	0.00	182.79	3,524.70	1,762.35	5,938.60	2,973.71	0.89	-0.16	0.046
56.00	-30.02	-2.43	0.00	-180.35	0.00	180.35	3,511.17	1,755.59	5,883.90	2,946.32	0.93	-0.16	0.045
57.00	-29.73	-2.43	0.00	-177.92	0.00	177.92	3,497.59	1,748.79	5,829.34	2,919.00	0.96	-0.17	0.045
58.00	-29.44	-2.42	0.00	-175.49	0.00	175.49	3,483.94	1,741.97	5,774.94	2,891.76	1.00	-0.17	0.045
59.00	-29.15	-2.42	0.00	-173.07	0.00	173.07	3,470.24	1,735.12	5,720.69	2,864.60	1.03	-0.17	0.044
60.00	-28.86	-2.41	0.00	-170.65	0.00	170.65	3,456.48	1,728.24	5,666.60	2,837.51	1.07	-0.17	0.044
61.00	-28.57	-2.41	0.00	-168.24	0.00	168.24	3,442.66	1,721.33	5,612.67	2,810.51	1.11	-0.18	0.044
62.00	-28.28	-2.40	0.00	-165.83	0.00	165.83	3,428.79	1,714.39	5,558.89	2,783.58	1.14	-0.18	0.043
63.00	-28.00	-2.39	0.00	-163.43	0.00	163.43	3,414.86	1,707.43	5,505.28	2,756.73	1.18	-0.18	0.043
64.00	-27.71	-2.39	0.00	-161.04	0.00	161.04	3,400.87	1,700.44	5,451.82	2,729.96	1.22	-0.19	0.043
65.00	-27.42	-2.38	0.00	-158.65	0.00	158.65	3,386.83	1,693.41	5,398.53	2,703.28	1.26	-0.19	0.042
66.00	-27.14	-2.38	0.00	-156.27	0.00	156.27	3,372.72	1,686.36	5,345.41	2,676.68	1.30	-0.19	0.042
67.00	-26.85	-2.37	0.00	-153.89	0.00	153.89	3,358.57	1,679.28	5,292.45	2,650.16	1.34	-0.20	0.042
68.00	-26.57	-2.36	0.00	-151.52	0.00	151.52	3,344.35	1,672.18	5,239.65	2,623.72	1.38	-0.20	0.041
69.00	-26.29	-2.35	0.00	-149.16	0.00	149.16	3,330.08	1,665.04	5,187.03	2,597.37	1.43	-0.20	0.041
70.00	-26.01	-2.35	0.00	-146.81	0.00	146.81	3,315.75	1,657.87	5,134.58	2,571.11	1.47	-0.21	0.041
71.00	-25.72	-2.34	0.00	-144.47	0.00	144.47	3,301.36	1,650.68	5,082.30	2,544.93	1.51	-0.21	0.040
72.00	-25.44	-2.33	0.00	-142.13	0.00	142.13	3,286.92	1,643.46	5,030.20	2,518.84	1.56	-0.21	0.040
73.00	-25.16	-2.32	0.00	-139.80	0.00	139.80	3,272.42	1,636.21	4,978.27	2,492.84	1.60	-0.22	0.040
74.00	-24.89	-2.31	0.00	-137.48	0.00	137.48	3,257.86	1,628.93	4,926.52	2,466.92	1.65	-0.22	0.039
75.00	-24.61	-2.30	0.00	-135.17	0.00	135.17	3,242.30	1,621.15	4,873.54	2,440.39	1.69	-0.22	0.039
76.00	-24.33	-2.29	0.00	-132.86	0.00	132.86	3,222.90	1,611.45	4,815.08	2,411.12	1.74	-0.23	0.039
77.00	-24.05	-2.28	0.00	-130.57	0.00	130.57	3,203.49	1,601.75	4,756.98	2,382.03	1.79	-0.23	0.038
78.00	-23.78	-2.27	0.00	-128.29	0.00	128.29	3,184.09	1,592.04	4,699.23	2,353.11	1.84	-0.23	0.038
79.00	-23.50	-2.26	0.00	-126.01	0.00	126.01	3,164.68	1,582.34	4,641.84	2,324.37	1.89	-0.23	0.038
80.00	-22.99	-2.24	0.00	-123.75	0.00	123.75	3,145.28	1,572.64	4,584.79	2,295.80	1.94	-0.24	0.037
81.00	-22.72	-2.23	0.00	-121.50	0.00	121.50	3,125.87	1,562.94	4,528.10	2,267.42	1.99	-0.24	0.037
82.00	-22.44	-2.22	0.00	-119.27	0.00	119.27	3,106.47	1,553.24	4,471.77	2,239.21	2.04	-0.24	0.037
83.00	-22.17	-2.21	0.00	-117.05	0.00	117.05	3,087.07	1,543.53	4,415.78	2,211.17	2.09	-0.25	0.036
84.00	-21.90	-2.20	0.00	-114.84	0.00	114.84	3,067.66	1,533.83	4,360.15	2,183.32	2.14	-0.25	0.036
85.00	-21.63	-2.19	0.00	-112.64	0.00	112.64	3,048.26	1,524.13	4,304.87	2,155.63	2.19	-0.25	0.036
86.00	-21.36	-2.18	0.00	-110.45	0.00	110.45	3,028.85	1,514.43	4,249.94	2,128.13	2.25	-0.26	0.035
87.00	-21.22	-2.17	0.00	-108.27	0.00	108.27	3,009.45	1,504.72	4,195.37	2,100.80	2.30	-0.26	0.035
87.54	-21.05	-2.16	0.00	-107.10	0.00	107.10	2,998.97	1,499.48	4,166.05	2,086.12	2.33	-0.26	0.035
88.00	-20.68	-2.14	0.00	-106.10	0.00	106.10	2,990.04	1,495.02	4,141.15	2,073.65	2.36	-0.26	0.034
89.00	-20.31	-2.13	0.00	-103.96	0.00	103.96	2,970.64	1,485.32	4,087.28	2,046.68	2.41	-0.27	0.034
90.00	-19.95	-2.11	0.00	-101.83	0.00	101.83	2,951.23	1,475.62	4,033.76	2,019.88	2.47	-0.27	0.033
91.00	-19.58	-2.09	0.00	-99.72	0.00	99.72	2,931.83	1,465.91	3,980.60	1,993.26	2.52	-0.27	0.033
92.00	-19.42	-2.08	0.00	-97.63	0.00	97.63	2,912.42	1,456.21	3,927.79	1,966.81	2.58	-0.27	0.033
92.46	-19.28	-2.08	0.00	-96.68	0.00	96.68	2,412.07	1,206.04	3,317.78	1,661.36	2.61	-0.28	0.036
93.00	-19.04	-2.06	0.00	-95.55	0.00	95.55	2,405.85	1,202.93	3,297.34	1,651.12	2.64	-0.28	0.036
94.00	-18.79	-2.05	0.00	-93.49	0.00	93.49	2,394.36	1,197.18	3,259.83	1,632.34	2.70	-0.28	0.035
95.00	-18.55	-2.04	0.00	-91.44	0.00	91.44	2,382.81	1,191.41	3,222.46	1,613.62	2.76	-0.28	0.035
96.00	-17.88	-2.00	0.00	-89.41	0.00	89.41	2,371.21	1,185.60	3,185.22	1,594.98	2.82	-0.29	0.034
97.00	-17.64	-1.98	0.00	-87.41	0.00	87.41	2,359.55	1,179.77	3,148.11	1,576.40	2.88	-0.29	0.034
98.00	-17.40	-1.97	0.00	-85.43	0.00	85.43	2,347.83	1,173.91	3,111.14	1,557.88	2.94	-0.29	0.033
99.00	-17.15	-1.96	0.00	-83.46	0.00	83.46	2,336.05	1,168.03	3,074.31	1,539.44	3.00	-0.30	0.033
100.00	-16.91	-1.94	0.00	-81.50	0.00	81.50	2,324.22	1,162.11	3,037.61	1,521.06	3.06	-0.30	0.032
101.00	-16.67	-1.93	0.00	-79.56	0.00	79.56	2,312.33	1,156.16	3,001.06	1,502.76	3.12	-0.30	0.032
102.00	-16.43	-1.91	0.00	-77.64	0.00	77.64	2,300.38	1,150.19	2,964.65	1,484.53	3.19	-0.30	0.031
103.00	-16.19	-1.89	0.00	-75.73	0.00	75.73	2,288.38	1,144.19	2,928.39	1,466.37	3.25	-0.31	0.031
104.00	-16.07	-1.89	0.00	-73.83	0.00	73.83	2,276.31	1,138.16	2,892.27	1,448.28	3.32	-0.31	0.030
104.50	-15.98	-1.88	0.00	-72.89	0.00	72.89	2,270.26	1,135.13	2,874.26	1,439.27	3.35	-0.31	0.030
104.50	-15.98	-1.88	0.00	-72.89	0.00	72.89	2,270.26	1,135.13	2,874.26	1,439.27	3.35	-0.31	0.058
105.00	-15.80	-1.87	0.00	-71.95	0.00	71.95	2,264.20	1,132.10	2,856.29	1,430.27	3.38	-0.31	0.057
106.00	-15.62	-1.86	0.00	-70.08	0.00	70.08	2,251.29	1,125.65	2,819.56	1,411.88	3.45	-0.32	0.057
107.00	-15.44	-1.85	0.00	-68.22	0.00	68.22	2,235.12	1,117.56	2,779.00	1,391.56	3.51	-0.32	0.056
108.00	-15.26	-1.83	0.00	-66.37	0.00	66.37	2,218.95	1,109.48	2,738.73	1,371.40	3.58	-0.33	0.055
109.00	-15.08	-1.82	0.00	-64.54	0.00	64.54	2,202.78	1,101.39	2,698.75	1,351.38	3.65	-0.33	0.055
110.00	-14.91	-1.81	0.00	-62.72	0.00	62.72	2,186.61	1,093.30	2,659.07	1,331.51	3.72	-0.34	0.054
111.00	-14.66	-1.79	0.00	-60.91	0.00	60.91	2,170.44	1,085.22	2,619.69	1,311.79	3.80	-0.35	0.053
112.00	-14.51	-1.78	0.00	-59.11	0.00	59.11	2,154.27	1,077.13	2,580.59	1,292.21	3.87	-0.35	0.052
113.00	-12.94	-1.66	0.00	-57.33	0.00	57.33	2,138.10	1,069.05	2,541.79	1,272.79	3.94	-0.36	0.051

114.00	-12.82	-1.65	0.00	-55.68	0.00	55.68	2,121.93	1,060.96	2,503.29	1,253.50	4.02	-0.36	0.050
115.00	-12.69	-1.64	0.00	-54.03	0.00	54.03	2,105.76	1,052.88	2,465.08	1,234.37	4.09	-0.37	0.050
116.00	-12.56	-1.63	0.00	-52.39	0.00	52.39	2,089.59	1,044.79	2,427.16	1,215.38	4.17	-0.37	0.049
117.00	-12.44	-1.62	0.00	-50.77	0.00	50.77	2,073.42	1,036.71	2,389.54	1,196.54	4.25	-0.38	0.048
118.00	-12.31	-1.61	0.00	-49.15	0.00	49.15	2,057.25	1,028.62	2,352.21	1,177.85	4.33	-0.38	0.048
119.00	-12.19	-1.60	0.00	-47.54	0.00	47.54	2,041.07	1,020.54	2,315.17	1,159.31	4.41	-0.39	0.047
120.00	-12.07	-1.59	0.00	-45.94	0.00	45.94	2,024.90	1,012.45	2,278.43	1,140.91	4.49	-0.39	0.046
121.00	-11.94	-1.58	0.00	-44.36	0.00	44.36	2,008.73	1,004.37	2,241.98	1,122.66	4.57	-0.40	0.045
122.00	-10.30	-1.42	0.00	-42.78	0.00	42.78	1,992.56	996.28	2,205.83	1,104.55	4.66	-0.40	0.044
123.00	-10.19	-1.41	0.00	-41.36	0.00	41.36	1,976.39	988.20	2,169.97	1,086.60	4.74	-0.41	0.043
124.00	-10.08	-1.40	0.00	-39.94	0.00	39.94	1,960.22	980.11	2,134.40	1,068.79	4.83	-0.41	0.043
125.00	-9.97	-1.39	0.00	-38.54	0.00	38.54	1,944.05	972.03	2,099.13	1,051.12	4.91	-0.42	0.042
126.00	-9.85	-1.38	0.00	-37.15	0.00	37.15	1,927.88	963.94	2,064.15	1,033.61	5.00	-0.42	0.041
127.00	-9.74	-1.37	0.00	-35.77	0.00	35.77	1,911.71	955.86	2,029.46	1,016.24	5.09	-0.43	0.040
128.00	-9.63	-1.36	0.00	-34.39	0.00	34.39	1,895.54	947.77	1,995.07	999.02	5.18	-0.43	0.040
129.00	-9.52	-1.35	0.00	-33.03	0.00	33.03	1,879.37	939.68	1,960.98	981.95	5.27	-0.43	0.039
130.00	-9.42	-1.34	0.00	-31.68	0.00	31.68	1,863.20	931.60	1,927.17	965.02	5.36	-0.44	0.038
131.00	-9.31	-1.33	0.00	-30.34	0.00	30.34	1,847.03	923.51	1,893.66	948.24	5.46	-0.44	0.037
132.00	-9.30	-1.33	0.00	-29.02	0.00	29.02	1,830.86	915.43	1,860.45	931.61	5.55	-0.45	0.036
132.12	-9.16	-1.31	0.00	-28.86	0.00	28.86	1,828.92	914.46	1,856.49	929.63	5.56	-0.45	0.036
133.00	-9.01	-1.30	0.00	-27.70	0.00	27.70	1,814.69	907.34	1,827.53	915.12	5.64	-0.45	0.035
134.00	-8.86	-1.28	0.00	-26.41	0.00	26.41	1,798.52	899.26	1,794.90	898.78	5.74	-0.46	0.034
135.00	-8.73	-1.27	0.00	-25.13	0.00	25.13	1,782.35	891.17	1,762.57	882.59	5.83	-0.46	0.033
135.87	-8.72	-1.27	0.00	-24.02	0.00	24.02	993.95	496.97	1,000.68	501.09	5.92	-0.46	0.057
136.00	-8.65	-1.26	0.00	-23.86	0.00	23.86	993.20	496.60	998.76	500.12	5.93	-0.46	0.056
137.00	-5.97	-0.94	0.00	-22.60	0.00	22.60	987.45	493.72	984.00	492.73	6.03	-0.47	0.052
138.00	-5.90	-0.93	0.00	-21.66	0.00	21.66	981.64	490.82	969.28	485.36	6.13	-0.48	0.051
139.00	-5.83	-0.92	0.00	-20.73	0.00	20.73	975.77	487.88	954.62	478.02	6.23	-0.48	0.049
140.00	-5.32	-0.86	0.00	-19.80	0.00	19.80	969.84	484.92	940.01	470.70	6.33	-0.49	0.048
141.00	-5.25	-0.85	0.00	-18.94	0.00	18.94	963.86	481.93	925.45	463.41	6.43	-0.49	0.046
142.00	-5.18	-0.85	0.00	-18.09	0.00	18.09	957.82	478.91	910.95	456.15	6.54	-0.50	0.045
143.00	-5.10	-0.84	0.00	-17.24	0.00	17.24	951.72	475.86	896.50	448.92	6.64	-0.50	0.044
144.00	-5.03	-0.83	0.00	-16.41	0.00	16.41	945.56	472.78	882.11	441.71	6.75	-0.51	0.042
145.00	-4.96	-0.82	0.00	-15.58	0.00	15.58	939.35	469.68	867.78	434.53	6.85	-0.51	0.041
146.00	-4.28	-0.73	0.00	-14.76	0.00	14.76	933.08	466.54	853.51	427.39	6.96	-0.52	0.039
147.00	-4.22	-0.72	0.00	-14.03	0.00	14.03	926.76	463.38	839.30	420.27	7.07	-0.52	0.038
148.00	-4.15	-0.71	0.00	-13.31	0.00	13.31	920.37	460.19	825.16	413.19	7.18	-0.53	0.037
149.00	-4.09	-0.70	0.00	-12.60	0.00	12.60	913.93	456.97	811.08	406.14	7.29	-0.53	0.036
150.00	-4.02	-0.69	0.00	-11.90	0.00	11.90	907.44	453.72	797.07	399.13	7.41	-0.54	0.034
151.00	-3.96	-0.68	0.00	-11.21	0.00	11.21	900.88	450.44	783.12	392.14	7.52	-0.54	0.033
152.00	-3.76	-0.66	0.00	-10.52	0.00	10.52	894.27	447.14	769.25	385.20	7.63	-0.55	0.032
153.00	-3.70	-0.65	0.00	-9.87	0.00	9.87	887.60	443.80	755.45	378.29	7.75	-0.55	0.030
154.00	-3.64	-0.64	0.00	-9.22	0.00	9.22	880.88	440.44	741.72	371.41	7.86	-0.56	0.029
155.00	-3.58	-0.63	0.00	-8.58	0.00	8.58	874.09	437.05	728.06	364.57	7.98	-0.56	0.028
156.00	-3.52	-0.62	0.00	-7.95	0.00	7.95	867.26	433.63	714.49	357.77	8.10	-0.56	0.026
157.00	-3.46	-0.61	0.00	-7.33	0.00	7.33	860.36	430.18	700.99	351.01	8.22	-0.57	0.025
158.00	-3.40	-0.60	0.00	-6.72	0.00	6.72	853.41	426.70	687.57	344.29	8.34	-0.57	0.023
159.00	-3.34	-0.59	0.00	-6.12	0.00	6.12	846.39	423.20	674.23	337.61	8.46	-0.57	0.022
160.00	-3.28	-0.58	0.00	-5.52	0.00	5.52	839.33	419.66	660.97	330.98	8.58	-0.58	0.021
161.00	-3.22	-0.57	0.00	-4.94	0.00	4.94	832.20	416.10	647.80	324.38	8.70	-0.58	0.019
162.00	-3.16	-0.57	0.00	-4.36	0.00	4.36	825.02	412.51	634.71	317.83	8.82	-0.58	0.018
163.00	-2.01	-0.37	0.00	-3.80	0.00	3.80	817.78	408.89	621.71	311.32	8.94	-0.58	0.015
164.00	-1.97	-0.37	0.00	-3.42	0.00	3.42	810.15	405.07	608.54	304.72	9.06	-0.59	0.014
165.00	-1.92	-0.36	0.00	-3.06	0.00	3.06	800.44	400.22	593.98	297.43	9.19	-0.59	0.013
166.00	-1.87	-0.35	0.00	-2.70	0.00	2.70	790.74	395.37	579.60	290.23	9.31	-0.59	0.012
167.00	-1.82	-0.34	0.00	-2.35	0.00	2.35	781.04	390.52	565.39	283.11	9.43	-0.59	0.011
168.00	-1.78	-0.33	0.00	-2.01	0.00	2.01	771.34	385.67	551.35	276.09	9.56	-0.59	0.010
169.00	-1.73	-0.33	0.00	-1.67	0.00	1.67	761.63	380.82	537.50	269.15	9.68	-0.59	0.008
170.00	-1.69	-0.32	0.00	-1.35	0.00	1.35	751.93	375.97	523.82	262.30	9.81	-0.60	0.007
171.00	-1.64	-0.31	0.00	-1.03	0.00	1.03	742.23	371.11	510.32	255.54	9.93	-0.60	0.006
172.00	-1.60	-0.30	0.00	-0.72	0.00	0.72	732.53	366.26	496.99	248.86	10.06	-0.60	0.005
173.00	-1.55	-0.29	0.00	-0.42	0.00	0.42	722.82	361.41	483.84	242.28	10.18	-0.60	0.004
174.00	-0.22	-0.04	0.00	-0.13	0.00	0.13	713.12	356.56	470.86	235.78	10.31	-0.60	0.001
175.00	-0.17	-0.03	0.00	-0.08	0.00	0.08	703.42	351.71	458.07	229.37	10.43	-0.60	0.001

176.00	-0.13	-0.03	0.00	-0.05	0.00	0.05	693.72	346.86	445.44	223.05	10.56	-0.60	0.000
177.00	-0.09	-0.02	0.00	-0.02	0.00	0.02	684.02	342.01	433.00	216.82	10.68	-0.60	0.000
178.00	-0.04	-0.01	0.00	-0.01	0.00	0.01	674.31	337.16	420.73	210.68	10.81	-0.60	0.000
179.00	0.00	0.00	0.00	0.00	0.00	0.00	664.61	332.31	408.64	204.62	10.93	-0.60	0.000
180.00	0.00	0.00	0.00	0.00	0.00	0.00	654.91	327.45	396.72	198.65	11.06	-0.60	0.000

Equivalent Modal Forces Analysis

(Based on ASCE7-10 Chapters 11, 12 & 15 and ANSI/TIA-G, section 2.7)

Spectral Response Acceleration for Short Period (S_s):	0.18
Spectral Response Acceleration at 1.0 Second Period (S_1):	0.06
Importance Factor (I_E):	1.50
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}):	0.19
Desing Spectral Response Acceleration at 1.0 Second Period (S_{d1}):	0.10
Period Based on Rayleigh Method (sec):	2.85
Redundancy Factor (p):	1.30

Load Case (1.2 + 0.2Sds) * DL + E EMAM — Seismic Equivalent Modal Analysis Method

Segment	Height Above Base (ft)	Weight (lb)	a	b	c	Saz	Horizontal Force (lb)	Vertical Force (lb)
187	179.50	49	1.880	1.925	1.120	0.350	22	61
186	178.50	50	1.859	1.819	1.081	0.337	22	61
185	177.50	50	1.838	1.716	1.044	0.324	21	62
184	176.50	51	1.817	1.618	1.007	0.311	20	63
183	175.50	51	1.797	1.523	0.972	0.299	20	63
182	174.50	51	1.776	1.433	0.937	0.287	19	64
181	173.50	52	1.756	1.346	0.903	0.275	19	64
180	172.50	52	1.736	1.263	0.871	0.263	18	65
179	171.50	53	1.716	1.183	0.839	0.251	17	65
178	170.50	53	1.696	1.106	0.808	0.240	17	66
177	169.50	54	1.676	1.033	0.778	0.229	16	66
176	168.50	54	1.656	0.963	0.749	0.218	15	67
175	167.50	55	1.637	0.896	0.721	0.208	15	68
174	166.50	55	1.617	0.832	0.694	0.197	14	68
173	165.50	55	1.598	0.772	0.667	0.187	13	69
172	164.50	56	1.579	0.713	0.641	0.177	13	69
171	163.50	56	1.559	0.658	0.616	0.167	12	70
170	162.50	68	1.540	0.605	0.592	0.158	14	84
169	161.50	68	1.521	0.555	0.569	0.148	13	84
168	160.50	69	1.503	0.508	0.546	0.139	12	85
167	159.50	69	1.484	0.462	0.524	0.131	12	85
166	158.50	69	1.465	0.420	0.503	0.122	11	86
165	157.50	70	1.447	0.379	0.482	0.113	10	86
164	156.50	70	1.429	0.340	0.462	0.105	10	87
163	155.50	71	1.411	0.304	0.443	0.097	9	88
162	154.50	71	1.392	0.270	0.424	0.089	8	88
161	153.50	72	1.374	0.237	0.406	0.082	8	89
160	152.50	72	1.357	0.207	0.388	0.075	7	89
159	151.50	73	1.339	0.178	0.372	0.067	6	91
158	150.50	74	1.321	0.151	0.355	0.060	6	91
157	149.50	74	1.304	0.126	0.339	0.054	5	92
156	148.50	75	1.286	0.102	0.324	0.047	5	92
155	147.50	75	1.269	0.080	0.309	0.041	4	93
154	146.50	76	1.252	0.059	0.295	0.035	3	94

153	145.50	82	1.235	0.040	0.282	0.029	3	101
152	144.50	82	1.218	0.022	0.268	0.023	2	102
151	143.50	83	1.201	0.006	0.256	0.018	2	102
150	142.50	83	1.185	-0.009	0.243	0.012	1	103
149	141.50	84	1.168	-0.023	0.232	0.007	1	104
148	140.50	84	1.152	-0.036	0.220	0.003	0	104
147	139.50	85	1.135	-0.048	0.209	-0.002	0	105
146	138.50	86	1.119	-0.059	0.199	-0.007	-1	106
145	137.50	86	1.103	-0.068	0.189	-0.011	-1	107
144	136.50	90	1.087	-0.077	0.179	-0.015	-2	112
143	135.93	12	1.078	-0.082	0.174	-0.017	0	15
142	135.43	150	1.070	-0.085	0.169	-0.019	-4	185
141	134.50	173	1.055	-0.092	0.161	-0.022	-5	214
140	133.50	174	1.040	-0.098	0.152	-0.026	-6	216
139	132.56	154	1.025	-0.103	0.144	-0.029	-6	191
138	132.06	15	1.017	-0.105	0.140	-0.030	-1	18
137	131.50	125	1.009	-0.108	0.136	-0.032	-5	155
136	130.50	126	0.993	-0.111	0.128	-0.034	-6	156
135	129.50	127	0.978	-0.115	0.121	-0.037	-6	157
134	128.50	127	0.963	-0.117	0.114	-0.039	-7	158
133	127.50	128	0.948	-0.119	0.107	-0.042	-7	159
132	126.50	129	0.933	-0.121	0.101	-0.043	-7	159
131	125.50	130	0.919	-0.121	0.095	-0.045	-8	160
130	124.50	130	0.904	-0.122	0.089	-0.047	-8	161
129	123.50	131	0.890	-0.122	0.083	-0.048	-8	162
128	122.50	132	0.875	-0.121	0.078	-0.049	-8	163
127	121.50	142	0.861	-0.120	0.073	-0.050	-9	176
126	120.50	143	0.847	-0.119	0.068	-0.051	-9	177
125	119.50	144	0.833	-0.117	0.064	-0.051	-10	178
124	118.50	145	0.819	-0.115	0.059	-0.051	-10	179
123	117.50	145	0.805	-0.113	0.055	-0.051	-10	180
122	116.50	146	0.792	-0.110	0.051	-0.051	-10	181
121	115.50	147	0.778	-0.108	0.048	-0.051	-10	182
120	114.50	148	0.765	-0.104	0.044	-0.050	-10	183
119	113.50	148	0.751	-0.101	0.041	-0.049	-10	184
118	112.50	178	0.738	-0.098	0.038	-0.048	-11	220
117	111.50	200	0.725	-0.094	0.035	-0.047	-12	248
116	110.50	206	0.712	-0.091	0.032	-0.046	-12	255
115	109.50	207	0.699	-0.087	0.030	-0.044	-12	256
114	108.50	207	0.687	-0.083	0.027	-0.042	-11	257
113	107.50	208	0.674	-0.079	0.025	-0.040	-11	258
112	106.50	209	0.662	-0.075	0.023	-0.038	-10	259
111	105.50	210	0.649	-0.070	0.021	-0.036	-10	260
110	104.75	105	0.640	-0.067	0.020	-0.034	-5	130
109	104.25	139	0.634	-0.065	0.019	-0.033	-6	172
108	103.50	278	0.625	-0.062	0.018	-0.031	-11	344
107	102.50	279	0.613	-0.058	0.016	-0.028	-10	345
106	101.50	279	0.601	-0.053	0.015	-0.025	-9	346
105	100.50	280	0.589	-0.049	0.013	-0.023	-8	347
104	99.50	281	0.578	-0.045	0.012	-0.020	-7	348
103	98.50	282	0.566	-0.040	0.011	-0.016	-6	349
102	97.50	282	0.555	-0.036	0.010	-0.013	-5	350
101	96.50	283	0.543	-0.032	0.009	-0.010	-4	350
100	95.50	285	0.532	-0.028	0.009	-0.007	-3	352
99	94.50	285	0.521	-0.024	0.008	-0.004	-1	353
98	93.50	286	0.510	-0.020	0.007	-0.001	0	354
97	92.73	156	0.502	-0.017	0.007	0.002	0	193
96	92.23	192	0.496	-0.015	0.007	0.003	1	238
95	91.50	422	0.488	-0.012	0.007	0.006	3	522
94	90.50	423	0.478	-0.008	0.006	0.009	5	524
93	89.50	425	0.467	-0.004	0.006	0.012	7	526
92	88.50	426	0.457	-0.001	0.006	0.015	8	528
91	87.77	197	0.449	0.002	0.006	0.017	4	244
90	87.27	168	0.444	0.004	0.006	0.018	4	208

89	86.50	312	0.436	0.006	0.006	0.020	8	386
88	85.50	313	0.426	0.010	0.006	0.023	9	387
87	84.50	314	0.417	0.013	0.006	0.026	10	389
86	83.50	315	0.407	0.016	0.006	0.028	12	390
85	82.50	316	0.397	0.019	0.007	0.030	13	391
84	81.50	317	0.387	0.022	0.007	0.033	13	392
83	80.50	317	0.378	0.025	0.007	0.035	14	393
82	79.50	319	0.369	0.028	0.008	0.037	15	395
81	78.50	320	0.359	0.030	0.008	0.039	16	396
80	77.50	321	0.350	0.033	0.009	0.040	17	397
79	76.50	322	0.341	0.035	0.009	0.042	18	398
78	75.50	323	0.333	0.037	0.010	0.043	18	399
77	74.50	323	0.324	0.040	0.010	0.045	19	400
76	73.50	324	0.315	0.042	0.011	0.046	19	401
75	72.50	325	0.307	0.044	0.012	0.047	20	403
74	71.50	326	0.298	0.046	0.012	0.048	20	404
73	70.50	327	0.290	0.048	0.013	0.049	21	405
72	69.50	328	0.282	0.049	0.014	0.050	21	406
71	68.50	329	0.274	0.051	0.015	0.051	22	407
70	67.50	330	0.266	0.052	0.015	0.051	22	408
69	66.50	331	0.258	0.054	0.016	0.052	22	409
68	65.50	331	0.250	0.055	0.017	0.052	23	410
67	64.50	332	0.243	0.057	0.018	0.053	23	411
66	63.50	333	0.235	0.058	0.019	0.053	23	412
65	62.50	334	0.228	0.059	0.020	0.053	23	414
64	61.50	335	0.221	0.060	0.021	0.054	23	415
63	60.50	336	0.214	0.061	0.021	0.054	23	416
62	59.50	337	0.207	0.062	0.022	0.054	24	417
61	58.50	338	0.200	0.063	0.023	0.054	24	418
60	57.50	339	0.193	0.064	0.024	0.054	24	419
59	56.50	339	0.186	0.064	0.025	0.054	24	420
58	55.50	340	0.180	0.065	0.026	0.054	24	421
57	54.50	341	0.173	0.066	0.027	0.054	24	422
56	53.50	342	0.167	0.066	0.028	0.054	24	423
55	52.50	343	0.161	0.067	0.029	0.054	24	425
54	51.50	344	0.155	0.068	0.029	0.054	24	426
53	50.50	345	0.149	0.068	0.030	0.053	24	427
52	49.52	332	0.143	0.068	0.031	0.053	23	411
51	49.02	22	0.140	0.069	0.032	0.053	1	27
50	48.50	543	0.137	0.069	0.032	0.053	37	673
49	47.50	545	0.132	0.069	0.033	0.053	37	675
48	46.50	547	0.126	0.070	0.034	0.053	37	677
47	45.50	549	0.121	0.070	0.034	0.052	37	680
46	44.50	551	0.116	0.070	0.035	0.052	37	682
45	43.50	553	0.110	0.070	0.036	0.052	37	685
44	42.98	24	0.108	0.071	0.036	0.052	2	30
43	42.48	361	0.105	0.071	0.036	0.052	24	447
42	41.50	379	0.100	0.071	0.037	0.052	25	469
41	40.50	380	0.096	0.071	0.038	0.051	25	470
40	39.50	381	0.091	0.071	0.038	0.051	25	471
39	38.50	382	0.086	0.071	0.039	0.051	25	473
38	37.50	383	0.082	0.072	0.039	0.051	25	474
37	36.50	384	0.078	0.072	0.040	0.051	25	475
36	35.50	385	0.074	0.072	0.040	0.050	25	476
35	34.50	386	0.069	0.072	0.041	0.050	25	478
34	33.50	387	0.065	0.072	0.041	0.050	25	479
33	32.50	388	0.062	0.072	0.041	0.050	25	480
32	31.50	389	0.058	0.072	0.041	0.050	25	481
31	30.50	390	0.054	0.071	0.042	0.049	25	483
30	29.50	391	0.051	0.071	0.042	0.049	25	484
29	28.50	392	0.047	0.071	0.042	0.049	25	486
28	27.50	393	0.044	0.071	0.042	0.049	25	487
27	26.50	395	0.041	0.070	0.042	0.048	25	488
26	25.50	396	0.038	0.070	0.041	0.048	25	490

25	24.50	397	0.035	0.069	0.041	0.048	25	491
24	23.50	398	0.032	0.069	0.041	0.047	24	492
23	22.50	399	0.030	0.068	0.040	0.047	24	493
22	21.50	400	0.027	0.067	0.040	0.046	24	495
21	20.50	401	0.025	0.066	0.039	0.046	24	496
20	19.50	402	0.022	0.065	0.039	0.045	24	497
19	18.50	403	0.020	0.064	0.038	0.045	23	499
18	17.50	404	0.018	0.063	0.037	0.044	23	500
17	16.50	405	0.016	0.061	0.036	0.043	23	501
16	15.50	406	0.014	0.060	0.035	0.042	22	502
15	14.50	407	0.012	0.058	0.034	0.041	22	504
14	13.50	408	0.011	0.056	0.032	0.040	21	505
13	12.50	409	0.009	0.054	0.031	0.039	21	506
12	11.50	410	0.008	0.051	0.029	0.038	20	508
11	10.50	411	0.006	0.048	0.028	0.036	19	509
10	9.50	412	0.005	0.045	0.026	0.034	18	510
9	8.50	413	0.004	0.042	0.024	0.032	17	511
8	7.50	414	0.003	0.039	0.022	0.030	16	513
7	6.50	415	0.002	0.035	0.019	0.028	15	514
6	5.50	416	0.002	0.030	0.017	0.025	13	515
5	4.50	417	0.001	0.026	0.014	0.022	12	517
4	3.50	418	0.001	0.021	0.011	0.018	10	518
3	2.50	419	0.000	0.015	0.008	0.014	7	519
2	1.50	420	0.000	0.010	0.005	0.009	5	520
1	0.50	421	0.000	0.003	0.002	0.003	2	522
Andrew ABT-DMDF-	184.00	1	1.975	2.459	1.308	0.412	1	1
4' Omni	184.00	10	1.975	2.459	1.308	0.412	5	12
Powerwave Allgon LGP	184.00	85	1.975	2.459	1.308	0.412	45	105
Ericsson RRUS 11 (Ba	184.00	150	1.975	2.459	1.308	0.412	80	186
Ericsson RRUS-12 B2	184.00	174	1.975	2.459	1.308	0.412	93	215
Powerwave Allgon 777	184.00	210	1.975	2.459	1.308	0.412	113	260
KMW AM-X-CD-16-65-00	184.00	146	1.975	2.459	1.308	0.412	78	180
Flat Low Profile Pla	184.00	1,500	1.975	2.459	1.308	0.412	804	1,857
Empty Low Profile Pl	174.00	1,500	1.766	1.389	0.920	0.281	547	1,857
Ericsson KRY 112 144	163.00	33	1.550	0.631	0.604	0.163	7	41
Ericsson AIR 21, 1.3	163.00	249	1.550	0.631	0.604	0.163	53	308
Ericsson AIR 21, 1.3	163.00	244	1.550	0.631	0.604	0.163	52	303
Round T-Arm	163.00	750	1.550	0.631	0.604	0.163	158	928
Sinclair SD210-SF2P4	152.00	8	1.348	0.192	0.380	0.071	1	10
Round Side Arm	152.00	150	1.348	0.192	0.380	0.071	14	186
Bird 432-83H-01-T	146.00	25	1.243	0.050	0.288	0.032	1	31
Sinclair SC479-HF1LD	146.00	34	1.243	0.050	0.288	0.032	1	42
Round Side Arm	146.00	450	1.243	0.050	0.288	0.032	19	557
Decibel DB809DK-XT	146.00	128	1.243	0.050	0.288	0.032	5	158
Sinclair SC442D-HF1L	146.00	79	1.243	0.050	0.288	0.032	3	98
Telewave ANT150D (5	140.00	5	1.143	-0.042	0.215	0.000	0	6
Bird 432-83H-01-T	140.00	50	1.143	-0.042	0.215	0.000	0	62
Round Side Arm	140.00	450	1.143	-0.042	0.215	0.000	0	557
Alcatel-Lucent 800 M	137.00	185	1.095	-0.073	0.184	-0.013	-3	229
Alcatel-Lucent 1900M	137.00	132	1.095	-0.073	0.184	-0.013	-2	163
Alcatel-Lucent TD-RR	137.00	210	1.095	-0.073	0.184	-0.013	-3	260
RFS APXVTM14-C-I20	137.00	317	1.095	-0.073	0.184	-0.013	-5	393
RFS APXVSPP18-C-A20	137.00	171	1.095	-0.073	0.184	-0.013	-3	212
Flat Platform w/ Han	137.00	2,000	1.095	-0.073	0.184	-0.013	-33	2,476
RFS FD9R6004/2C-3L	122.00	19	0.868	-0.121	0.076	-0.050	-1	23
A Antel BXA-171085-1	122.00	30	0.868	-0.121	0.076	-0.050	-2	37
A Antel BXA-171063-1	122.00	15	0.868	-0.121	0.076	-0.050	-1	19
Amp Antel BXA-70063-	122.00	34	0.868	-0.121	0.076	-0.050	-2	42
Antel LPA-80080/6CF	122.00	84	0.868	-0.121	0.076	-0.050	-5	104
Antel LPA-80063/6CF	122.00	54	0.868	-0.121	0.076	-0.050	-3	67
Amphenol Antel BXA-7	122.00	38	0.868	-0.121	0.076	-0.050	-2	46
Round Low Profile Pl	122.00	1,500	0.868	-0.121	0.076	-0.050	-97	1,857
Decibel DB844H90E-XY	113.00	168	0.745	-0.100	0.039	-0.049	-11	208
Round Low Profile Pl	113.00	1,500	0.745	-0.100	0.039	-0.049	-95	1,857

RFS APXV18-206517S-C	111.00	79	0.719	-0.092	0.034	-0.046	-5	98
Andrew DB586	96.00	8	0.538	-0.030	0.009	-0.009	0	10
Andrew DB586	96.00	8	0.538	-0.030	0.009	-0.009	0	10
Bird 429-83H-01-T	96.00	20	0.538	-0.030	0.009	-0.009	0	25
Flat Side Arm	96.00	450	0.538	-0.030	0.009	-0.009	-5	557
RFS PA6-65AC	80.00	278	0.373	0.026	0.007	0.036	13	344
PCTEL GPS-TMG-HR-	79.00	1	0.364	0.029	0.008	0.038	0	1
GPS	30.00	10	0.053	0.071	0.042	0.049	1	12
		60,343	172.096	48.673	47.864	12.350	3,830	74,691

Load Case (0.9 - 0.2Sds) * DL + E EMAM — Seismic (Reduced DL) Equivalent Modal Analysis Method

Segment	Height Above Base (ft)	Weight (lb)	a	b	c	Saz	Horizontal Force (lb)	Vertical Force (lb)
187	179.50	49	1.880	1.925	1.120	0.350	22	42
186	178.50	50	1.859	1.819	1.081	0.337	22	43
185	177.50	50	1.838	1.716	1.044	0.324	21	43
184	176.50	51	1.817	1.618	1.007	0.311	20	44
183	175.50	51	1.797	1.523	0.972	0.299	20	44
182	174.50	51	1.776	1.433	0.937	0.287	19	44
181	173.50	52	1.756	1.346	0.903	0.275	19	45
180	172.50	52	1.736	1.263	0.871	0.263	18	45
179	171.50	53	1.716	1.183	0.839	0.251	17	46
178	170.50	53	1.696	1.106	0.808	0.240	17	46
177	169.50	54	1.676	1.033	0.778	0.229	16	46
176	168.50	54	1.656	0.963	0.749	0.218	15	47
175	167.50	55	1.637	0.896	0.721	0.208	15	47
174	166.50	55	1.617	0.832	0.694	0.197	14	47
173	165.50	55	1.598	0.772	0.667	0.187	13	48
172	164.50	56	1.579	0.713	0.641	0.177	13	48
171	163.50	56	1.559	0.658	0.616	0.167	12	49
170	162.50	68	1.540	0.605	0.592	0.158	14	58
169	161.50	68	1.521	0.555	0.569	0.148	13	59
168	160.50	69	1.503	0.508	0.546	0.139	12	59
167	159.50	69	1.484	0.462	0.524	0.131	12	59
166	158.50	69	1.465	0.420	0.503	0.122	11	60
165	157.50	70	1.447	0.379	0.482	0.113	10	60
164	156.50	70	1.429	0.340	0.462	0.105	10	61
163	155.50	71	1.411	0.304	0.443	0.097	9	61
162	154.50	71	1.392	0.270	0.424	0.089	8	61
161	153.50	72	1.374	0.237	0.406	0.082	8	62
160	152.50	72	1.357	0.207	0.388	0.075	7	62
159	151.50	73	1.339	0.178	0.372	0.067	6	63
158	150.50	74	1.321	0.151	0.355	0.060	6	64
157	149.50	74	1.304	0.126	0.339	0.054	5	64
156	148.50	75	1.286	0.102	0.324	0.047	5	64
155	147.50	75	1.269	0.080	0.309	0.041	4	65
154	146.50	76	1.252	0.059	0.295	0.035	3	65
153	145.50	82	1.235	0.040	0.282	0.029	3	71
152	144.50	82	1.218	0.022	0.268	0.023	2	71
151	143.50	83	1.201	0.006	0.256	0.018	2	71
150	142.50	83	1.185	-0.009	0.243	0.012	1	72
149	141.50	84	1.168	-0.023	0.232	0.007	1	72
148	140.50	84	1.152	-0.036	0.220	0.003	0	73
147	139.50	85	1.135	-0.048	0.209	-0.002	0	73
146	138.50	86	1.119	-0.059	0.199	-0.007	-1	74
145	137.50	86	1.103	-0.068	0.189	-0.011	-1	74
144	136.50	90	1.087	-0.077	0.179	-0.015	-2	78
143	135.93	12	1.078	-0.082	0.174	-0.017	0	10

142	135.43	150	1.070	-0.085	0.169	-0.019	-4	129
141	134.50	173	1.055	-0.092	0.161	-0.022	-5	149
140	133.50	174	1.040	-0.098	0.152	-0.026	-6	150
139	132.56	154	1.025	-0.103	0.144	-0.029	-6	133
138	132.06	15	1.017	-0.105	0.140	-0.030	-1	13
137	131.50	125	1.009	-0.108	0.136	-0.032	-5	108
136	130.50	126	0.993	-0.111	0.128	-0.034	-6	109
135	129.50	127	0.978	-0.115	0.121	-0.037	-6	109
134	128.50	127	0.963	-0.117	0.114	-0.039	-7	110
133	127.50	128	0.948	-0.119	0.107	-0.042	-7	110
132	126.50	129	0.933	-0.121	0.101	-0.043	-7	111
131	125.50	130	0.919	-0.121	0.095	-0.045	-8	112
130	124.50	130	0.904	-0.122	0.089	-0.047	-8	112
129	123.50	131	0.890	-0.122	0.083	-0.048	-8	113
128	122.50	132	0.875	-0.121	0.078	-0.049	-8	114
127	121.50	142	0.861	-0.120	0.073	-0.050	-9	123
126	120.50	143	0.847	-0.119	0.068	-0.051	-9	123
125	119.50	144	0.833	-0.117	0.064	-0.051	-10	124
124	118.50	145	0.819	-0.115	0.059	-0.051	-10	125
123	117.50	145	0.805	-0.113	0.055	-0.051	-10	125
122	116.50	146	0.792	-0.110	0.051	-0.051	-10	126
121	115.50	147	0.778	-0.108	0.048	-0.051	-10	127
120	114.50	148	0.765	-0.104	0.044	-0.050	-10	127
119	113.50	148	0.751	-0.101	0.041	-0.049	-10	128
118	112.50	178	0.738	-0.098	0.038	-0.048	-11	154
117	111.50	200	0.725	-0.094	0.035	-0.047	-12	173
116	110.50	206	0.712	-0.091	0.032	-0.046	-12	178
115	109.50	207	0.699	-0.087	0.030	-0.044	-12	178
114	108.50	207	0.687	-0.083	0.027	-0.042	-11	179
113	107.50	208	0.674	-0.079	0.025	-0.040	-11	180
112	106.50	209	0.662	-0.075	0.023	-0.038	-10	180
111	105.50	210	0.649	-0.070	0.021	-0.036	-10	181
110	104.75	105	0.640	-0.067	0.020	-0.034	-5	91
109	104.25	139	0.634	-0.065	0.019	-0.033	-6	120
108	103.50	278	0.625	-0.062	0.018	-0.031	-11	240
107	102.50	279	0.613	-0.058	0.016	-0.028	-10	240
106	101.50	279	0.601	-0.053	0.015	-0.025	-9	241
105	100.50	280	0.589	-0.049	0.013	-0.023	-8	242
104	99.50	281	0.578	-0.045	0.012	-0.020	-7	242
103	98.50	282	0.566	-0.040	0.011	-0.016	-6	243
102	97.50	282	0.555	-0.036	0.010	-0.013	-5	244
101	96.50	283	0.543	-0.032	0.009	-0.010	-4	244
100	95.50	285	0.532	-0.028	0.009	-0.007	-3	245
99	94.50	285	0.521	-0.024	0.008	-0.004	-1	246
98	93.50	286	0.510	-0.020	0.007	-0.001	0	247
97	92.73	156	0.502	-0.017	0.007	0.002	0	134
96	92.23	192	0.496	-0.015	0.007	0.003	1	165
95	91.50	422	0.488	-0.012	0.007	0.006	3	363
94	90.50	423	0.478	-0.008	0.006	0.009	5	365
93	89.50	425	0.467	-0.004	0.006	0.012	7	366
92	88.50	426	0.457	-0.001	0.006	0.015	8	368
91	87.77	197	0.449	0.002	0.006	0.017	4	170
90	87.27	168	0.444	0.004	0.006	0.018	4	145
89	86.50	312	0.436	0.006	0.006	0.020	8	269
88	85.50	313	0.426	0.010	0.006	0.023	9	270
87	84.50	314	0.417	0.013	0.006	0.026	10	271
86	83.50	315	0.407	0.016	0.006	0.028	12	271
85	82.50	316	0.397	0.019	0.007	0.030	13	272
84	81.50	317	0.387	0.022	0.007	0.033	13	273
83	80.50	317	0.378	0.025	0.007	0.035	14	274
82	79.50	319	0.369	0.028	0.008	0.037	15	275
81	78.50	320	0.359	0.030	0.008	0.039	16	276
80	77.50	321	0.350	0.033	0.009	0.040	17	277
79	76.50	322	0.341	0.035	0.009	0.042	18	277

78	75.50	323	0.333	0.037	0.010	0.043	18	278
77	74.50	323	0.324	0.040	0.010	0.045	19	279
76	73.50	324	0.315	0.042	0.011	0.046	19	280
75	72.50	325	0.307	0.044	0.012	0.047	20	280
74	71.50	326	0.298	0.046	0.012	0.048	20	281
73	70.50	327	0.290	0.048	0.013	0.049	21	282
72	69.50	328	0.282	0.049	0.014	0.050	21	283
71	68.50	329	0.274	0.051	0.015	0.051	22	283
70	67.50	330	0.266	0.052	0.015	0.051	22	284
69	66.50	331	0.258	0.054	0.016	0.052	22	285
68	65.50	331	0.250	0.055	0.017	0.052	23	286
67	64.50	332	0.243	0.057	0.018	0.053	23	287
66	63.50	333	0.235	0.058	0.019	0.053	23	287
65	62.50	334	0.228	0.059	0.020	0.053	23	288
64	61.50	335	0.221	0.060	0.021	0.054	23	289
63	60.50	336	0.214	0.061	0.021	0.054	23	290
62	59.50	337	0.207	0.062	0.022	0.054	24	290
61	58.50	338	0.200	0.063	0.023	0.054	24	291
60	57.50	339	0.193	0.064	0.024	0.054	24	292
59	56.50	339	0.186	0.064	0.025	0.054	24	293
58	55.50	340	0.180	0.065	0.026	0.054	24	293
57	54.50	341	0.173	0.066	0.027	0.054	24	294
56	53.50	342	0.167	0.066	0.028	0.054	24	295
55	52.50	343	0.161	0.067	0.029	0.054	24	296
54	51.50	344	0.155	0.068	0.029	0.054	24	297
53	50.50	345	0.149	0.068	0.030	0.053	24	297
52	49.52	332	0.143	0.068	0.031	0.053	23	286
51	49.02	22	0.140	0.069	0.032	0.053	1	19
50	48.50	543	0.137	0.069	0.032	0.053	37	469
49	47.50	545	0.132	0.069	0.033	0.053	37	470
48	46.50	547	0.126	0.070	0.034	0.053	37	472
47	45.50	549	0.121	0.070	0.034	0.052	37	474
46	44.50	551	0.116	0.070	0.035	0.052	37	475
45	43.50	553	0.110	0.070	0.036	0.052	37	477
44	42.98	24	0.108	0.071	0.036	0.052	2	21
43	42.48	361	0.105	0.071	0.036	0.052	24	311
42	41.50	379	0.100	0.071	0.037	0.052	25	326
41	40.50	380	0.096	0.071	0.038	0.051	25	327
40	39.50	381	0.091	0.071	0.038	0.051	25	328
39	38.50	382	0.086	0.071	0.039	0.051	25	329
38	37.50	383	0.082	0.072	0.039	0.051	25	330
37	36.50	384	0.078	0.072	0.040	0.051	25	331
36	35.50	385	0.074	0.072	0.040	0.050	25	332
35	34.50	386	0.069	0.072	0.041	0.050	25	333
34	33.50	387	0.065	0.072	0.041	0.050	25	334
33	32.50	388	0.062	0.072	0.041	0.050	25	335
32	31.50	389	0.058	0.072	0.041	0.050	25	335
31	30.50	390	0.054	0.071	0.042	0.049	25	336
30	29.50	391	0.051	0.071	0.042	0.049	25	337
29	28.50	392	0.047	0.071	0.042	0.049	25	338
28	27.50	393	0.044	0.071	0.042	0.049	25	339
27	26.50	395	0.041	0.070	0.042	0.048	25	340
26	25.50	396	0.038	0.070	0.041	0.048	25	341
25	24.50	397	0.035	0.069	0.041	0.048	25	342
24	23.50	398	0.032	0.069	0.041	0.047	24	343
23	22.50	399	0.030	0.068	0.040	0.047	24	344
22	21.50	400	0.027	0.067	0.040	0.046	24	345
21	20.50	401	0.025	0.066	0.039	0.046	24	346
20	19.50	402	0.022	0.065	0.039	0.045	24	346
19	18.50	403	0.020	0.064	0.038	0.045	23	347
18	17.50	404	0.018	0.063	0.037	0.044	23	348
17	16.50	405	0.016	0.061	0.036	0.043	23	349
16	15.50	406	0.014	0.060	0.035	0.042	22	350
15	14.50	407	0.012	0.058	0.034	0.041	22	351

14	13.50	408	0.011	0.056	0.032	0.040	21	352
13	12.50	409	0.009	0.054	0.031	0.039	21	353
12	11.50	410	0.008	0.051	0.029	0.038	20	354
11	10.50	411	0.006	0.048	0.028	0.036	19	354
10	9.50	412	0.005	0.045	0.026	0.034	18	355
9	8.50	413	0.004	0.042	0.024	0.032	17	356
8	7.50	414	0.003	0.039	0.022	0.030	16	357
7	6.50	415	0.002	0.035	0.019	0.028	15	358
6	5.50	416	0.002	0.030	0.017	0.025	13	359
5	4.50	417	0.001	0.026	0.014	0.022	12	360
4	3.50	418	0.001	0.021	0.011	0.018	10	361
3	2.50	419	0.000	0.015	0.008	0.014	7	362
2	1.50	420	0.000	0.010	0.005	0.009	5	363
1	0.50	421	0.000	0.003	0.002	0.003	2	363
Andrew ABT-DMDF-	184.00	1	1.975	2.459	1.308	0.412	1	1
4' Omni	184.00	10	1.975	2.459	1.308	0.412	5	9
Powerwave Allgon LGP	184.00	85	1.975	2.459	1.308	0.412	45	73
Ericsson RRUS 11 (Ba	184.00	150	1.975	2.459	1.308	0.412	80	129
Ericsson RRUS-12 B2	184.00	174	1.975	2.459	1.308	0.412	93	150
Powerwave Allgon 777	184.00	210	1.975	2.459	1.308	0.412	113	181
KMW AM-X-CD-16-65-00	184.00	146	1.975	2.459	1.308	0.412	78	125
Flat Low Profile Pla	184.00	1,500	1.975	2.459	1.308	0.412	804	1,293
Empty Low Profile Pl	174.00	1,500	1.766	1.389	0.920	0.281	547	1,293
Ericsson KRY 112 144	163.00	33	1.550	0.631	0.604	0.163	7	28
Ericsson AIR 21, 1.3	163.00	249	1.550	0.631	0.604	0.163	53	215
Ericsson AIR 21, 1.3	163.00	244	1.550	0.631	0.604	0.163	52	211
Round T-Arm	163.00	750	1.550	0.631	0.604	0.163	158	647
Sinclair SD210-SF2P4	152.00	8	1.348	0.192	0.380	0.071	1	7
Round Side Arm	152.00	150	1.348	0.192	0.380	0.071	14	129
Bird 432-83H-01-T	146.00	25	1.243	0.050	0.288	0.032	1	22
Sinclair SC479-HF1LD	146.00	34	1.243	0.050	0.288	0.032	1	29
Round Side Arm	146.00	450	1.243	0.050	0.288	0.032	19	388
Decibel DB809DK-XT	146.00	128	1.243	0.050	0.288	0.032	5	110
Sinclair SC442D-HF1L	146.00	79	1.243	0.050	0.288	0.032	3	68
Telewave ANT150D (5	140.00	5	1.143	-0.042	0.215	0.000	0	4
Bird 432-83H-01-T	140.00	50	1.143	-0.042	0.215	0.000	0	43
Round Side Arm	140.00	450	1.143	-0.042	0.215	0.000	0	388
Alcatel-Lucent 800 M	137.00	185	1.095	-0.073	0.184	-0.013	-3	160
Alcatel-Lucent 1900M	137.00	132	1.095	-0.073	0.184	-0.013	-2	114
Alcatel-Lucent TD-RR	137.00	210	1.095	-0.073	0.184	-0.013	-3	181
RFS APXVTM14-C-I20	137.00	317	1.095	-0.073	0.184	-0.013	-5	274
RFS APXVSPP18-C-A20	137.00	171	1.095	-0.073	0.184	-0.013	-3	147
Flat Platform w/ Han	137.00	2,000	1.095	-0.073	0.184	-0.013	-33	1,724
RFS FD9R6004/2C-3L	122.00	19	0.868	-0.121	0.076	-0.050	-1	16
A Antel BXA-171085-1	122.00	30	0.868	-0.121	0.076	-0.050	-2	26
A Antel BXA-171063-1	122.00	15	0.868	-0.121	0.076	-0.050	-1	13
Amp Antel BXA-70063-	122.00	34	0.868	-0.121	0.076	-0.050	-2	29
Antel LPA-80080/6CF	122.00	84	0.868	-0.121	0.076	-0.050	-5	72
Antel LPA-80063/6CF	122.00	54	0.868	-0.121	0.076	-0.050	-3	47
Amphenol Antel BXA-7	122.00	38	0.868	-0.121	0.076	-0.050	-2	32
Round Low Profile Pl	122.00	1,500	0.868	-0.121	0.076	-0.050	-97	1,293
Decibel DB844H90E-XY	113.00	168	0.745	-0.100	0.039	-0.049	-11	145
Round Low Profile Pl	113.00	1,500	0.745	-0.100	0.039	-0.049	-95	1,293
RFS APXV18-206517S-C	111.00	79	0.719	-0.092	0.034	-0.046	-5	68
Andrew DB586	96.00	8	0.538	-0.030	0.009	-0.009	0	7
Andrew DB586	96.00	8	0.538	-0.030	0.009	-0.009	0	7
Bird 429-83H-01-T	96.00	20	0.538	-0.030	0.009	-0.009	0	17
Flat Side Arm	96.00	450	0.538	-0.030	0.009	-0.009	-5	388
RFS PA6-65AC	80.00	278	0.373	0.026	0.007	0.036	13	240
PCTEL GPS-TMG-HR-	79.00	1	0.364	0.029	0.008	0.038	0	1
GPS	30.00	10	0.053	0.071	0.042	0.049	1	9
		60,343	172.096	48.673	47.864	12.350	3,830	52,030

Load Case (1.2 + 0.2Sds) * DL + E EMAM Seismic Equivalent Modal Analysis Method

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	-71.35	-2.61	0.00	-243.90	0.00	243.90	5,102.86	2,551.43	10,963.2	5,489.79	0.00	0.00	0.044
1.00	-70.83	-2.60	0.00	-241.29	0.00	241.29	5,088.23	2,544.11	10,885.6	5,450.89	0.00	0.00	0.044
2.00	-70.31	-2.60	0.00	-238.69	0.00	238.69	5,073.54	2,536.77	10,808.0	5,412.06	0.00	0.00	0.043
3.00	-69.79	-2.59	0.00	-236.09	0.00	236.09	5,058.79	2,529.39	10,730.6	5,373.31	0.00	-0.01	0.043
4.00	-69.28	-2.58	0.00	-233.49	0.00	233.49	5,043.98	2,521.99	10,653.4	5,334.64	0.00	-0.01	0.043
5.00	-68.76	-2.57	0.00	-230.91	0.00	230.91	5,029.12	2,514.56	10,576.3	5,296.03	0.01	-0.01	0.043
6.00	-68.25	-2.56	0.00	-228.34	0.00	228.34	5,014.20	2,507.10	10,499.4	5,257.51	0.01	-0.01	0.043
7.00	-67.74	-2.55	0.00	-225.78	0.00	225.78	4,999.22	2,499.61	10,422.6	5,219.05	0.01	-0.01	0.042
8.00	-67.22	-2.53	0.00	-223.23	0.00	223.23	4,984.19	2,492.10	10,345.9	5,180.68	0.01	-0.02	0.042
9.00	-66.71	-2.51	0.00	-220.70	0.00	220.70	4,969.10	2,484.55	10,269.5	5,142.38	0.02	-0.02	0.042
10.00	-66.21	-2.50	0.00	-218.19	0.00	218.19	4,953.95	2,476.98	10,193.1	5,104.17	0.02	-0.02	0.042
11.00	-65.70	-2.48	0.00	-215.69	0.00	215.69	4,938.75	2,469.37	10,117.0	5,066.03	0.03	-0.02	0.041
12.00	-65.19	-2.46	0.00	-213.21	0.00	213.21	4,923.49	2,461.74	10,041.0	5,027.97	0.03	-0.02	0.041
13.00	-64.69	-2.44	0.00	-210.75	0.00	210.75	4,908.17	2,454.08	9,965.17	4,989.99	0.04	-0.03	0.041
14.00	-64.18	-2.42	0.00	-208.31	0.00	208.31	4,892.79	2,446.40	9,889.49	4,952.10	0.04	-0.03	0.041
15.00	-63.68	-2.40	0.00	-205.88	0.00	205.88	4,877.36	2,438.68	9,813.98	4,914.28	0.05	-0.03	0.040
16.00	-63.18	-2.38	0.00	-203.48	0.00	203.48	4,861.87	2,430.94	9,738.63	4,876.55	0.06	-0.03	0.040
17.00	-62.68	-2.36	0.00	-201.10	0.00	201.10	4,846.32	2,423.16	9,663.45	4,838.91	0.06	-0.03	0.040
18.00	-62.18	-2.34	0.00	-198.74	0.00	198.74	4,830.72	2,415.36	9,588.44	4,801.34	0.07	-0.04	0.040
19.00	-61.68	-2.32	0.00	-196.40	0.00	196.40	4,815.06	2,407.53	9,513.60	4,763.87	0.08	-0.04	0.040
20.00	-61.19	-2.29	0.00	-194.08	0.00	194.08	4,799.34	2,399.67	9,438.93	4,726.48	0.09	-0.04	0.039
21.00	-60.69	-2.27	0.00	-191.79	0.00	191.79	4,783.57	2,391.78	9,364.44	4,689.18	0.09	-0.04	0.039
22.00	-60.20	-2.25	0.00	-189.52	0.00	189.52	4,767.74	2,383.87	9,290.12	4,651.96	0.10	-0.04	0.039
23.00	-59.71	-2.23	0.00	-187.27	0.00	187.27	4,751.85	2,375.92	9,215.98	4,614.84	0.11	-0.05	0.039
24.00	-59.22	-2.20	0.00	-185.04	0.00	185.04	4,735.90	2,367.95	9,142.01	4,577.80	0.12	-0.05	0.038
25.00	-58.73	-2.18	0.00	-182.83	0.00	182.83	4,719.90	2,359.95	9,068.23	4,540.86	0.13	-0.05	0.038
26.00	-58.24	-2.16	0.00	-180.65	0.00	180.65	4,703.84	2,351.92	8,994.63	4,504.00	0.14	-0.05	0.038
27.00	-57.75	-2.14	0.00	-178.49	0.00	178.49	4,687.72	2,343.86	8,921.22	4,467.24	0.16	-0.06	0.038
28.00	-57.26	-2.11	0.00	-176.36	0.00	176.36	4,671.55	2,335.77	8,847.98	4,430.57	0.17	-0.06	0.038
29.00	-56.78	-2.09	0.00	-174.25	0.00	174.25	4,655.31	2,327.66	8,774.94	4,393.99	0.18	-0.06	0.037
30.00	-56.28	-2.06	0.00	-172.16	0.00	172.16	4,639.03	2,319.51	8,702.08	4,357.51	0.19	-0.06	0.037
31.00	-55.80	-2.04	0.00	-170.09	0.00	170.09	4,622.68	2,311.34	8,629.41	4,321.12	0.21	-0.06	0.037
32.00	-55.32	-2.02	0.00	-168.05	0.00	168.05	4,606.28	2,303.14	8,556.93	4,284.83	0.22	-0.07	0.037
33.00	-54.84	-1.99	0.00	-166.04	0.00	166.04	4,589.82	2,294.91	8,484.65	4,248.63	0.23	-0.07	0.037
34.00	-54.37	-1.97	0.00	-164.04	0.00	164.04	4,573.30	2,286.65	8,412.56	4,212.53	0.25	-0.07	0.036
35.00	-53.89	-1.95	0.00	-162.07	0.00	162.07	4,556.73	2,278.36	8,340.67	4,176.53	0.26	-0.07	0.036
36.00	-53.41	-1.92	0.00	-160.13	0.00	160.13	4,540.10	2,270.05	8,268.97	4,140.63	0.28	-0.07	0.036
37.00	-52.94	-1.90	0.00	-158.20	0.00	158.20	4,523.41	2,261.70	8,197.47	4,104.83	0.29	-0.08	0.036
38.00	-52.47	-1.87	0.00	-156.31	0.00	156.31	4,506.66	2,253.33	8,126.17	4,069.13	0.31	-0.08	0.036
39.00	-52.00	-1.85	0.00	-154.43	0.00	154.43	4,489.86	2,244.93	8,055.08	4,033.53	0.33	-0.08	0.035
40.00	-51.53	-1.83	0.00	-152.58	0.00	152.58	4,473.00	2,236.50	7,984.18	3,998.03	0.34	-0.08	0.035
41.00	-51.06	-1.80	0.00	-150.76	0.00	150.76	4,456.09	2,228.04	7,913.50	3,962.63	0.36	-0.08	0.035
42.00	-50.61	-1.78	0.00	-148.95	0.00	148.95	4,439.11	2,219.56	7,843.02	3,927.34	0.38	-0.09	0.035
42.96	-50.58	-1.78	0.00	-147.25	0.00	147.25	4,422.82	2,211.41	7,775.79	3,893.68	0.40	-0.09	0.035
43.00	-49.90	-1.74	0.00	-147.18	0.00	147.18	4,422.08	2,211.04	7,772.74	3,892.15	0.40	-0.09	0.034
44.00	-49.21	-1.70	0.00	-145.44	0.00	145.44	4,400.67	2,200.33	7,695.11	3,853.28	0.41	-0.09	0.034
45.00	-48.53	-1.67	0.00	-143.73	0.00	143.73	4,378.03	2,189.01	7,615.75	3,813.53	0.43	-0.09	0.034
46.00	-47.86	-1.63	0.00	-142.07	0.00	142.07	4,355.39	2,177.70	7,536.79	3,773.99	0.45	-0.09	0.034
47.00	-47.18	-1.59	0.00	-140.44	0.00	140.44	4,332.75	2,166.38	7,458.24	3,734.66	0.47	-0.10	0.034
48.00	-46.51	-1.56	0.00	-138.85	0.00	138.85	4,310.11	2,155.06	7,380.10	3,695.54	0.49	-0.10	0.033
49.00	-46.48	-1.56	0.00	-137.29	0.00	137.29	4,287.47	2,143.74	7,302.38	3,656.62	0.51	-0.10	0.033
49.04	-46.07	-1.53	0.00	-137.23	0.00	137.23	3,604.17	1,802.08	6,267.69	3,138.50	0.52	-0.10	0.038
50.00	-45.65	-1.51	0.00	-135.76	0.00	135.76	3,591.50	1,795.75	6,214.33	3,111.78	0.54	-0.10	0.038
51.00	-45.22	-1.49	0.00	-134.25	0.00	134.25	3,578.26	1,789.13	6,158.90	3,084.03	0.56	-0.10	0.037
52.00	-44.80	-1.46	0.00	-132.76	0.00	132.76	3,564.96	1,782.48	6,103.60	3,056.34	0.58	-0.11	0.037
53.00	-44.37	-1.44	0.00	-131.30	0.00	131.30	3,551.60	1,775.80	6,048.46	3,028.72	0.60	-0.11	0.037

54.00	-43.95	-1.42	0.00	-129.86	0.00	129.86	3,538.18	1,769.09	5,993.45	3,001.18	0.63	-0.11	0.037
55.00	-43.53	-1.39	0.00	-128.44	0.00	128.44	3,524.70	1,762.35	5,938.60	2,973.71	0.65	-0.11	0.037
56.00	-43.11	-1.37	0.00	-127.05	0.00	127.05	3,511.17	1,755.59	5,883.90	2,946.32	0.67	-0.12	0.036
57.00	-42.69	-1.35	0.00	-125.68	0.00	125.68	3,497.59	1,748.79	5,829.34	2,919.00	0.70	-0.12	0.036
58.00	-42.27	-1.33	0.00	-124.33	0.00	124.33	3,483.94	1,741.97	5,774.94	2,891.76	0.72	-0.12	0.036
59.00	-41.85	-1.30	0.00	-123.00	0.00	123.00	3,470.24	1,735.12	5,720.69	2,864.60	0.75	-0.12	0.036
60.00	-41.44	-1.28	0.00	-121.70	0.00	121.70	3,456.48	1,728.24	5,666.60	2,837.51	0.77	-0.12	0.036
61.00	-41.02	-1.26	0.00	-120.42	0.00	120.42	3,442.66	1,721.33	5,612.67	2,810.51	0.80	-0.13	0.036
62.00	-40.61	-1.24	0.00	-119.16	0.00	119.16	3,428.79	1,714.39	5,558.89	2,783.58	0.83	-0.13	0.035
63.00	-40.20	-1.21	0.00	-117.93	0.00	117.93	3,414.86	1,707.43	5,505.28	2,756.73	0.85	-0.13	0.035
64.00	-39.79	-1.19	0.00	-116.71	0.00	116.71	3,400.87	1,700.44	5,451.82	2,729.96	0.88	-0.13	0.035
65.00	-39.38	-1.17	0.00	-115.52	0.00	115.52	3,386.83	1,693.41	5,398.53	2,703.28	0.91	-0.14	0.035
66.00	-38.97	-1.15	0.00	-114.35	0.00	114.35	3,372.72	1,686.36	5,345.41	2,676.68	0.94	-0.14	0.035
67.00	-38.56	-1.13	0.00	-113.21	0.00	113.21	3,358.57	1,679.28	5,292.45	2,650.16	0.97	-0.14	0.035
68.00	-38.15	-1.10	0.00	-112.08	0.00	112.08	3,344.35	1,672.18	5,239.65	2,623.72	1.00	-0.14	0.034
69.00	-37.75	-1.08	0.00	-110.97	0.00	110.97	3,330.08	1,665.04	5,187.03	2,597.37	1.03	-0.15	0.034
70.00	-37.34	-1.06	0.00	-109.89	0.00	109.89	3,315.75	1,657.87	5,134.58	2,571.11	1.06	-0.15	0.034
71.00	-36.94	-1.04	0.00	-108.83	0.00	108.83	3,301.36	1,650.68	5,082.30	2,544.93	1.09	-0.15	0.034
72.00	-36.54	-1.02	0.00	-107.78	0.00	107.78	3,286.92	1,643.46	5,030.20	2,518.84	1.12	-0.15	0.034
73.00	-36.13	-1.01	0.00	-106.76	0.00	106.76	3,272.42	1,636.21	4,978.27	2,492.84	1.15	-0.16	0.034
74.00	-35.73	-0.99	0.00	-105.75	0.00	105.75	3,257.86	1,628.93	4,926.52	2,466.92	1.19	-0.16	0.034
75.00	-35.33	-0.97	0.00	-104.77	0.00	104.77	3,242.30	1,621.15	4,873.54	2,440.39	1.22	-0.16	0.034
76.00	-34.94	-0.95	0.00	-103.80	0.00	103.80	3,222.90	1,611.45	4,815.08	2,411.12	1.25	-0.16	0.034
77.00	-34.54	-0.94	0.00	-102.84	0.00	102.84	3,203.49	1,601.75	4,756.98	2,382.03	1.29	-0.16	0.034
78.00	-34.14	-0.92	0.00	-101.91	0.00	101.91	3,184.09	1,592.04	4,699.23	2,353.11	1.32	-0.17	0.033
79.00	-33.75	-0.91	0.00	-100.99	0.00	100.99	3,164.68	1,582.34	4,641.84	2,324.37	1.36	-0.17	0.033
80.00	-33.01	-0.88	0.00	-100.08	0.00	100.08	3,145.28	1,572.64	4,584.79	2,295.80	1.40	-0.17	0.033
81.00	-32.62	-0.86	0.00	-99.21	0.00	99.21	3,125.87	1,562.94	4,528.10	2,267.42	1.43	-0.17	0.033
82.00	-32.23	-0.85	0.00	-98.34	0.00	98.34	3,106.47	1,553.24	4,471.77	2,239.21	1.47	-0.18	0.033
83.00	-31.84	-0.84	0.00	-97.49	0.00	97.49	3,087.07	1,543.53	4,415.78	2,211.17	1.51	-0.18	0.033
84.00	-31.45	-0.83	0.00	-96.65	0.00	96.65	3,067.66	1,533.83	4,360.15	2,183.32	1.54	-0.18	0.033
85.00	-31.06	-0.82	0.00	-95.82	0.00	95.82	3,048.26	1,524.13	4,304.87	2,155.63	1.58	-0.19	0.033
86.00	-30.68	-0.81	0.00	-95.00	0.00	95.00	3,028.85	1,514.43	4,249.94	2,128.13	1.62	-0.19	0.033
87.00	-30.47	-0.81	0.00	-94.19	0.00	94.19	3,009.45	1,504.72	4,195.37	2,100.80	1.66	-0.19	0.033
87.54	-30.22	-0.80	0.00	-93.75	0.00	93.75	2,998.97	1,499.48	4,166.05	2,086.12	1.68	-0.19	0.033
88.00	-29.70	-0.80	0.00	-93.38	0.00	93.38	2,990.04	1,495.02	4,141.15	2,073.65	1.70	-0.19	0.033
89.00	-29.17	-0.79	0.00	-92.58	0.00	92.58	2,970.64	1,485.32	4,087.28	2,046.68	1.74	-0.20	0.033
90.00	-28.65	-0.78	0.00	-91.80	0.00	91.80	2,951.23	1,475.62	4,033.76	2,019.88	1.78	-0.20	0.032
91.00	-28.13	-0.78	0.00	-91.01	0.00	91.01	2,931.83	1,465.91	3,980.60	1,993.26	1.82	-0.20	0.032
92.00	-27.89	-0.78	0.00	-90.23	0.00	90.23	2,912.42	1,456.21	3,927.79	1,966.81	1.87	-0.20	0.032
92.46	-27.70	-0.78	0.00	-89.88	0.00	89.88	2,412.07	1,206.04	3,317.78	1,661.36	1.89	-0.20	0.036
93.00	-27.34	-0.78	0.00	-89.45	0.00	89.45	2,405.85	1,202.93	3,297.34	1,651.12	1.91	-0.21	0.036
94.00	-26.99	-0.78	0.00	-88.67	0.00	88.67	2,394.36	1,197.18	3,259.83	1,632.34	1.95	-0.21	0.036
95.00	-26.64	-0.78	0.00	-87.89	0.00	87.89	2,382.81	1,191.41	3,222.46	1,613.62	2.00	-0.21	0.036
96.00	-25.68	-0.79	0.00	-87.11	0.00	87.11	2,371.21	1,185.60	3,185.22	1,594.98	2.04	-0.21	0.036
97.00	-25.33	-0.79	0.00	-86.32	0.00	86.32	2,359.55	1,179.77	3,148.11	1,576.40	2.09	-0.22	0.035
98.00	-24.98	-0.80	0.00	-85.53	0.00	85.53	2,347.83	1,173.91	3,111.14	1,557.88	2.13	-0.22	0.035
99.00	-24.64	-0.81	0.00	-84.73	0.00	84.73	2,336.05	1,168.03	3,074.31	1,539.44	2.18	-0.22	0.035
100.00	-24.29	-0.82	0.00	-83.92	0.00	83.92	2,324.22	1,162.11	3,037.61	1,521.06	2.23	-0.23	0.035
101.00	-23.94	-0.83	0.00	-83.10	0.00	83.10	2,312.33	1,156.16	3,001.06	1,502.76	2.28	-0.23	0.035
102.00	-23.60	-0.84	0.00	-82.28	0.00	82.28	2,300.38	1,150.19	2,964.65	1,484.53	2.32	-0.23	0.035
103.00	-23.25	-0.85	0.00	-81.44	0.00	81.44	2,288.38	1,144.19	2,928.39	1,466.37	2.37	-0.24	0.035
104.00	-23.08	-0.85	0.00	-80.60	0.00	80.60	2,276.31	1,138.16	2,892.27	1,448.28	2.42	-0.24	0.035
104.50	-22.95	-0.86	0.00	-80.17	0.00	80.17	2,270.26	1,135.13	2,874.26	1,439.27	2.45	-0.24	0.034
104.50	-22.95	-0.86	0.00	-80.17	0.00	80.17	2,270.26	1,135.13	2,874.26	1,439.27	2.45	-0.24	0.066
105.00	-22.69	-0.87	0.00	-79.74	0.00	79.74	2,264.20	1,132.10	2,856.29	1,430.27	2.47	-0.24	0.066
106.00	-22.43	-0.88	0.00	-78.87	0.00	78.87	2,251.29	1,125.65	2,819.56	1,411.88	2.52	-0.25	0.066
107.00	-22.18	-0.89	0.00	-77.99	0.00	77.99	2,235.12	1,117.56	2,779.00	1,391.56	2.58	-0.25	0.066
108.00	-21.92	-0.90	0.00	-77.10	0.00	77.10	2,218.95	1,109.48	2,738.73	1,371.40	2.63	-0.26	0.066
109.00	-21.66	-0.92	0.00	-76.20	0.00	76.20	2,202.78	1,101.39	2,698.75	1,351.38	2.69	-0.27	0.066
110.00	-21.41	-0.93	0.00	-75.28	0.00	75.28	2,186.61	1,093.30	2,659.07	1,331.51	2.74	-0.27	0.066
111.00	-21.06	-0.95	0.00	-74.35	0.00	74.35	2,170.44	1,085.22	2,619.69	1,311.79	2.80	-0.28	0.066
112.00	-20.84	-0.96	0.00	-73.40	0.00	73.40	2,154.27	1,077.13	2,580.59	1,292.21	2.86	-0.29	0.066
113.00	-18.59	-1.07	0.00	-72.44	0.00	72.44	2,138.10	1,069.05	2,541.79	1,272.79	2.92	-0.29	0.066

114.00	-18.41	-1.08	0.00	-71.37	0.00	71.37	2,121.93	1,060.96	2,503.29	1,253.50	2.98	-0.30	0.066
115.00	-18.23	-1.09	0.00	-70.29	0.00	70.29	2,105.76	1,052.88	2,465.08	1,234.37	3.05	-0.31	0.066
116.00	-18.05	-1.10	0.00	-69.21	0.00	69.21	2,089.59	1,044.79	2,427.16	1,215.38	3.11	-0.31	0.066
117.00	-17.87	-1.11	0.00	-68.11	0.00	68.11	2,073.42	1,036.71	2,389.54	1,196.54	3.18	-0.32	0.066
118.00	-17.69	-1.12	0.00	-67.00	0.00	67.00	2,057.25	1,028.62	2,352.21	1,177.85	3.25	-0.33	0.065
119.00	-17.51	-1.13	0.00	-65.87	0.00	65.87	2,041.07	1,020.54	2,315.17	1,159.31	3.32	-0.33	0.065
120.00	-17.33	-1.14	0.00	-64.74	0.00	64.74	2,024.90	1,012.45	2,278.43	1,140.91	3.39	-0.34	0.065
121.00	-17.15	-1.15	0.00	-63.60	0.00	63.60	2,008.73	1,004.37	2,241.98	1,122.66	3.46	-0.35	0.065
122.00	-14.80	-1.26	0.00	-62.45	0.00	62.45	1,992.56	996.28	2,205.83	1,104.55	3.53	-0.36	0.064
123.00	-14.63	-1.27	0.00	-61.18	0.00	61.18	1,976.39	988.20	2,169.97	1,086.60	3.61	-0.36	0.064
124.00	-14.47	-1.28	0.00	-59.91	0.00	59.91	1,960.22	980.11	2,134.40	1,068.79	3.68	-0.37	0.063
125.00	-14.31	-1.29	0.00	-58.63	0.00	58.63	1,944.05	972.03	2,099.13	1,051.12	3.76	-0.38	0.063
126.00	-14.15	-1.30	0.00	-57.34	0.00	57.34	1,927.88	963.94	2,064.15	1,033.61	3.84	-0.38	0.063
127.00	-13.99	-1.30	0.00	-56.05	0.00	56.05	1,911.71	955.86	2,029.46	1,016.24	3.92	-0.39	0.062
128.00	-13.84	-1.31	0.00	-54.74	0.00	54.74	1,895.54	947.77	1,995.07	999.02	4.01	-0.40	0.062
129.00	-13.68	-1.32	0.00	-53.43	0.00	53.43	1,879.37	939.68	1,960.98	981.95	4.09	-0.41	0.062
130.00	-13.52	-1.32	0.00	-52.11	0.00	52.11	1,863.20	931.60	1,927.17	965.02	4.18	-0.41	0.061
131.00	-13.37	-1.33	0.00	-50.79	0.00	50.79	1,847.03	923.51	1,893.66	948.24	4.26	-0.42	0.061
132.00	-13.35	-1.33	0.00	-49.46	0.00	49.46	1,830.86	915.43	1,860.45	931.61	4.35	-0.43	0.060
132.12	-13.16	-1.34	0.00	-49.30	0.00	49.30	1,828.92	914.46	1,856.49	929.63	4.36	-0.43	0.060
133.00	-12.94	-1.34	0.00	-48.12	0.00	48.12	1,814.69	907.34	1,827.53	915.12	4.44	-0.43	0.060
134.00	-12.73	-1.35	0.00	-46.78	0.00	46.78	1,798.52	899.26	1,794.90	898.78	4.53	-0.44	0.059
135.00	-12.54	-1.35	0.00	-45.43	0.00	45.43	1,782.35	891.17	1,762.57	882.59	4.63	-0.45	0.059
135.87	-12.53	-1.35	0.00	-44.25	0.00	44.25	993.95	496.97	1,000.68	501.09	4.71	-0.46	0.101
136.00	-12.42	-1.35	0.00	-44.08	0.00	44.08	993.20	496.60	998.76	500.12	4.72	-0.46	0.101
137.00	-8.58	-1.38	0.00	-42.72	0.00	42.72	987.45	493.72	984.00	492.73	4.82	-0.47	0.095
138.00	-8.47	-1.38	0.00	-41.35	0.00	41.35	981.64	490.82	969.28	485.36	4.92	-0.48	0.094
139.00	-8.36	-1.38	0.00	-39.97	0.00	39.97	975.77	487.88	954.62	478.02	5.02	-0.49	0.092
140.00	-7.63	-1.37	0.00	-38.59	0.00	38.59	969.84	484.92	940.01	470.70	5.12	-0.50	0.090
141.00	-7.53	-1.37	0.00	-37.21	0.00	37.21	963.86	481.93	925.45	463.41	5.23	-0.51	0.088
142.00	-7.43	-1.37	0.00	-35.84	0.00	35.84	957.82	478.91	910.95	456.15	5.34	-0.52	0.086
143.00	-7.32	-1.37	0.00	-34.47	0.00	34.47	951.72	475.86	896.50	448.92	5.45	-0.53	0.084
144.00	-7.22	-1.37	0.00	-33.10	0.00	33.10	945.56	472.78	882.11	441.71	5.56	-0.54	0.083
145.00	-7.12	-1.37	0.00	-31.73	0.00	31.73	939.35	469.68	867.78	434.53	5.68	-0.55	0.081
146.00	-6.14	-1.33	0.00	-30.36	0.00	30.36	933.08	466.54	853.51	427.39	5.79	-0.56	0.078
147.00	-6.05	-1.32	0.00	-29.04	0.00	29.04	926.76	463.38	839.30	420.27	5.91	-0.57	0.076
148.00	-5.96	-1.32	0.00	-27.71	0.00	27.71	920.37	460.19	825.16	413.19	6.03	-0.58	0.074
149.00	-5.86	-1.31	0.00	-26.40	0.00	26.40	913.93	456.97	811.08	406.14	6.16	-0.59	0.071
150.00	-5.77	-1.31	0.00	-25.09	0.00	25.09	907.44	453.72	797.07	399.13	6.28	-0.60	0.069
151.00	-5.68	-1.30	0.00	-23.78	0.00	23.78	900.88	450.44	783.12	392.14	6.41	-0.61	0.067
152.00	-5.40	-1.28	0.00	-22.48	0.00	22.48	894.27	447.14	769.25	385.20	6.54	-0.62	0.064
153.00	-5.31	-1.27	0.00	-21.21	0.00	21.21	887.60	443.80	755.45	378.29	6.67	-0.63	0.062
154.00	-5.22	-1.26	0.00	-19.94	0.00	19.94	880.88	440.44	741.72	371.41	6.81	-0.64	0.060
155.00	-5.13	-1.25	0.00	-18.68	0.00	18.68	874.09	437.05	728.06	364.57	6.94	-0.65	0.057
156.00	-5.04	-1.24	0.00	-17.43	0.00	17.43	867.26	433.63	714.49	357.77	7.08	-0.66	0.055
157.00	-4.96	-1.23	0.00	-16.19	0.00	16.19	860.36	430.18	700.99	351.01	7.22	-0.66	0.052
158.00	-4.87	-1.22	0.00	-14.96	0.00	14.96	853.41	426.70	687.57	344.29	7.36	-0.67	0.049
159.00	-4.79	-1.21	0.00	-13.74	0.00	13.74	846.39	423.20	674.23	337.61	7.50	-0.68	0.046
160.00	-4.70	-1.19	0.00	-12.53	0.00	12.53	839.33	419.66	660.97	330.98	7.64	-0.69	0.043
161.00	-4.62	-1.18	0.00	-11.34	0.00	11.34	832.20	416.10	647.80	324.38	7.79	-0.69	0.041
162.00	-4.53	-1.17	0.00	-10.16	0.00	10.16	825.02	412.51	634.71	317.83	7.93	-0.70	0.037
163.00	-2.89	-0.86	0.00	-8.99	0.00	8.99	817.78	408.89	621.71	311.32	8.08	-0.70	0.032
164.00	-2.82	-0.85	0.00	-8.13	0.00	8.13	810.15	405.07	608.54	304.72	8.23	-0.71	0.030
165.00	-2.75	-0.84	0.00	-7.28	0.00	7.28	800.44	400.22	593.98	297.43	8.38	-0.71	0.028
166.00	-2.68	-0.82	0.00	-6.44	0.00	6.44	790.74	395.37	579.60	290.23	8.53	-0.72	0.026
167.00	-2.61	-0.81	0.00	-5.62	0.00	5.62	781.04	390.52	565.39	283.11	8.68	-0.72	0.023
168.00	-2.55	-0.79	0.00	-4.81	0.00	4.81	771.34	385.67	551.35	276.09	8.83	-0.73	0.021
169.00	-2.48	-0.77	0.00	-4.02	0.00	4.02	761.63	380.82	537.50	269.15	8.98	-0.73	0.018
170.00	-2.42	-0.76	0.00	-3.25	0.00	3.25	751.93	375.97	523.82	262.30	9.13	-0.73	0.016
171.00	-2.35	-0.74	0.00	-2.49	0.00	2.49	742.23	371.11	510.32	255.54	9.29	-0.73	0.013
172.00	-2.29	-0.72	0.00	-1.75	0.00	1.75	732.53	366.26	496.99	248.86	9.44	-0.74	0.010
173.00	-2.22	-0.70	0.00	-1.03	0.00	1.03	722.82	361.41	483.84	242.28	9.60	-0.74	0.007
174.00	-0.31	-0.11	0.00	-0.33	0.00	0.33	713.12	356.56	470.86	235.78	9.75	-0.74	0.002
175.00	-0.25	-0.09	0.00	-0.22	0.00	0.22	703.42	351.71	458.07	229.37	9.90	-0.74	0.001

176.00	-0.18	-0.07	0.00	-0.14	0.00	0.14	693.72	346.86	445.44	223.05	10.06	-0.74	0.001
177.00	-0.12	-0.05	0.00	-0.07	0.00	0.07	684.02	342.01	433.00	216.82	10.21	-0.74	0.000
178.00	-0.06	-0.02	0.00	-0.02	0.00	0.02	674.31	337.16	420.73	210.68	10.37	-0.74	0.000
179.00	0.00	0.00	0.00	0.00	0.00	0.00	664.61	332.31	408.64	204.62	10.52	-0.74	0.000
180.00	0.00	0.00	0.00	0.00	0.00	0.00	654.91	327.45	396.72	198.65	10.68	-0.74	0.000

Load Case (0.9 - 0.2Sds) * DL + E EMAM Seismic (Reduced DL) Equivalent Modal Analysis Method

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	-49.71	-2.61	0.00	-239.84	0.00	239.84	5,102.86	2,551.43	10,963.2	5,489.79	0.00	0.00	0.040
1.00	-49.34	-2.60	0.00	-237.24	0.00	237.24	5,088.23	2,544.11	10,885.6	5,450.89	0.00	0.00	0.040
2.00	-48.98	-2.60	0.00	-234.63	0.00	234.63	5,073.54	2,536.77	10,808.0	5,412.06	0.00	0.00	0.040
3.00	-48.62	-2.59	0.00	-232.03	0.00	232.03	5,058.79	2,529.39	10,730.6	5,373.31	0.00	-0.01	0.039
4.00	-48.26	-2.58	0.00	-229.44	0.00	229.44	5,043.98	2,521.99	10,653.4	5,334.64	0.00	-0.01	0.039
5.00	-47.90	-2.57	0.00	-226.86	0.00	226.86	5,029.12	2,514.56	10,576.3	5,296.03	0.01	-0.01	0.039
6.00	-47.54	-2.56	0.00	-224.29	0.00	224.29	5,014.20	2,507.10	10,499.4	5,257.51	0.01	-0.01	0.039
7.00	-47.19	-2.54	0.00	-221.74	0.00	221.74	4,999.22	2,499.61	10,422.6	5,219.05	0.01	-0.01	0.038
8.00	-46.83	-2.52	0.00	-219.20	0.00	219.20	4,984.19	2,492.10	10,345.9	5,180.68	0.01	-0.02	0.038
9.00	-46.47	-2.51	0.00	-216.67	0.00	216.67	4,969.10	2,484.55	10,269.5	5,142.38	0.02	-0.02	0.038
10.00	-46.12	-2.49	0.00	-214.17	0.00	214.17	4,953.95	2,476.98	10,193.1	5,104.17	0.02	-0.02	0.038
11.00	-45.77	-2.47	0.00	-211.68	0.00	211.68	4,938.75	2,469.37	10,117.0	5,066.03	0.03	-0.02	0.038
12.00	-45.41	-2.45	0.00	-209.20	0.00	209.20	4,923.49	2,461.74	10,041.0	5,027.97	0.03	-0.02	0.037
13.00	-45.06	-2.43	0.00	-206.75	0.00	206.75	4,908.17	2,454.08	9,965.17	4,989.99	0.04	-0.03	0.037
14.00	-44.71	-2.41	0.00	-204.32	0.00	204.32	4,892.79	2,446.40	9,889.49	4,952.10	0.04	-0.03	0.037
15.00	-44.36	-2.39	0.00	-201.91	0.00	201.91	4,877.36	2,438.68	9,813.98	4,914.28	0.05	-0.03	0.037
16.00	-44.01	-2.37	0.00	-199.52	0.00	199.52	4,861.87	2,430.94	9,738.63	4,876.55	0.05	-0.03	0.037
17.00	-43.66	-2.35	0.00	-197.15	0.00	197.15	4,846.32	2,423.16	9,663.45	4,838.91	0.06	-0.03	0.036
18.00	-43.32	-2.33	0.00	-194.80	0.00	194.80	4,830.72	2,415.36	9,588.44	4,801.34	0.07	-0.04	0.036
19.00	-42.97	-2.30	0.00	-192.47	0.00	192.47	4,815.06	2,407.53	9,513.60	4,763.87	0.08	-0.04	0.036
20.00	-42.62	-2.28	0.00	-190.17	0.00	190.17	4,799.34	2,399.67	9,438.93	4,726.48	0.08	-0.04	0.036
21.00	-42.28	-2.26	0.00	-187.89	0.00	187.89	4,783.57	2,391.78	9,364.44	4,689.18	0.09	-0.04	0.036
22.00	-41.93	-2.24	0.00	-185.63	0.00	185.63	4,767.74	2,383.87	9,290.12	4,651.96	0.10	-0.04	0.035
23.00	-41.59	-2.21	0.00	-183.39	0.00	183.39	4,751.85	2,375.92	9,215.98	4,614.84	0.11	-0.05	0.035
24.00	-41.25	-2.19	0.00	-181.18	0.00	181.18	4,735.90	2,367.95	9,142.01	4,577.80	0.12	-0.05	0.035
25.00	-40.91	-2.17	0.00	-178.99	0.00	178.99	4,719.90	2,359.95	9,068.23	4,540.86	0.13	-0.05	0.035
26.00	-40.57	-2.14	0.00	-176.83	0.00	176.83	4,703.84	2,351.92	8,994.63	4,504.00	0.14	-0.05	0.035
27.00	-40.23	-2.12	0.00	-174.69	0.00	174.69	4,687.72	2,343.86	8,921.22	4,467.24	0.15	-0.05	0.034
28.00	-39.89	-2.09	0.00	-172.57	0.00	172.57	4,671.55	2,335.77	8,847.98	4,430.57	0.16	-0.06	0.034
29.00	-39.55	-2.07	0.00	-170.48	0.00	170.48	4,655.31	2,327.66	8,774.94	4,393.99	0.18	-0.06	0.034
30.00	-39.21	-2.05	0.00	-168.41	0.00	168.41	4,639.03	2,319.51	8,702.08	4,357.51	0.19	-0.06	0.034
31.00	-38.87	-2.02	0.00	-166.36	0.00	166.36	4,622.68	2,311.34	8,629.41	4,321.12	0.20	-0.06	0.034
32.00	-38.54	-2.00	0.00	-164.34	0.00	164.34	4,606.28	2,303.14	8,556.93	4,284.83	0.22	-0.06	0.033
33.00	-38.20	-1.97	0.00	-162.34	0.00	162.34	4,589.82	2,294.91	8,484.65	4,248.63	0.23	-0.07	0.033
34.00	-37.87	-1.95	0.00	-160.37	0.00	160.37	4,573.30	2,286.65	8,412.56	4,212.53	0.24	-0.07	0.033
35.00	-37.54	-1.92	0.00	-158.42	0.00	158.42	4,556.73	2,278.36	8,340.67	4,176.53	0.26	-0.07	0.033
36.00	-37.21	-1.90	0.00	-156.49	0.00	156.49	4,540.10	2,270.05	8,268.97	4,140.63	0.27	-0.07	0.033
37.00	-36.88	-1.88	0.00	-154.59	0.00	154.59	4,523.41	2,261.70	8,197.47	4,104.83	0.29	-0.07	0.032
38.00	-36.55	-1.85	0.00	-152.72	0.00	152.72	4,506.66	2,253.33	8,126.17	4,069.13	0.30	-0.08	0.032
39.00	-36.22	-1.83	0.00	-150.87	0.00	150.87	4,489.86	2,244.93	8,055.08	4,033.53	0.32	-0.08	0.032
40.00	-35.89	-1.80	0.00	-149.04	0.00	149.04	4,473.00	2,236.50	7,984.18	3,998.03	0.34	-0.08	0.032
41.00	-35.57	-1.78	0.00	-147.24	0.00	147.24	4,456.09	2,228.04	7,913.50	3,962.63	0.35	-0.08	0.032
42.00	-35.26	-1.75	0.00	-145.46	0.00	145.46	4,439.11	2,219.56	7,843.02	3,927.34	0.37	-0.08	0.032
42.96	-35.23	-1.75	0.00	-143.78	0.00	143.78	4,422.82	2,211.41	7,775.79	3,893.68	0.39	-0.09	0.031
43.00	-34.76	-1.72	0.00	-143.71	0.00	143.71	4,422.08	2,211.04	7,772.74	3,892.15	0.39	-0.09	0.031
44.00	-34.28	-1.68	0.00	-141.99	0.00	141.99	4,400.67	2,200.33	7,695.11	3,853.28	0.41	-0.09	0.031
45.00	-33.81	-1.64	0.00	-140.31	0.00	140.31	4,378.03	2,189.01	7,615.75	3,813.53	0.43	-0.09	0.031
46.00	-33.34	-1.60	0.00	-138.67	0.00	138.67	4,355.39	2,177.70	7,536.79	3,773.99	0.44	-0.09	0.031
47.00	-32.87	-1.57	0.00	-137.07	0.00	137.07	4,332.75	2,166.38	7,458.24	3,734.66	0.46	-0.09	0.031
48.00	-32.40	-1.53	0.00	-135.50	0.00	135.50	4,310.11	2,155.06	7,380.10	3,695.54	0.48	-0.10	0.030
49.00	-32.38	-1.53	0.00	-133.97	0.00	133.97	4,287.47	2,143.74	7,302.38	3,656.62	0.50	-0.10	0.030
49.04	-32.09	-1.51	0.00	-133.91	0.00	133.91	3,604.17	1,802.08	6,267.69	3,138.50	0.51	-0.10	0.034
50.00	-31.80	-1.48	0.00	-132.46	0.00	132.46	3,591.50	1,795.75	6,214.33	3,111.78	0.53	-0.10	0.034
51.00	-31.50	-1.46	0.00	-130.98	0.00	130.98	3,578.26	1,789.13	6,158.90	3,084.03	0.55	-0.10	0.034
52.00	-31.20	-1.44	0.00	-129.52	0.00	129.52	3,564.96	1,782.48	6,103.60	3,056.34	0.57	-0.10	0.034
53.00	-30.91	-1.41	0.00	-128.08	0.00	128.08	3,551.60	1,775.80	6,048.46	3,028.72	0.59	-0.11	0.034

54.00	-30.62	-1.39	0.00	-126.67	0.00	126.67	3,538.18	1,769.09	5,993.45	3,001.18	0.61	-0.11	0.033
55.00	-30.32	-1.37	0.00	-125.28	0.00	125.28	3,524.70	1,762.35	5,938.60	2,973.71	0.64	-0.11	0.033
56.00	-30.03	-1.34	0.00	-123.91	0.00	123.91	3,511.17	1,755.59	5,883.90	2,946.32	0.66	-0.11	0.033
57.00	-29.74	-1.32	0.00	-122.57	0.00	122.57	3,497.59	1,748.79	5,829.34	2,919.00	0.68	-0.12	0.033
58.00	-29.45	-1.30	0.00	-121.25	0.00	121.25	3,483.94	1,741.97	5,774.94	2,891.76	0.71	-0.12	0.033
59.00	-29.16	-1.27	0.00	-119.95	0.00	119.95	3,470.24	1,735.12	5,720.69	2,864.60	0.73	-0.12	0.033
60.00	-28.87	-1.25	0.00	-118.67	0.00	118.67	3,456.48	1,728.24	5,666.60	2,837.51	0.76	-0.12	0.032
61.00	-28.58	-1.23	0.00	-117.42	0.00	117.42	3,442.66	1,721.33	5,612.67	2,810.51	0.78	-0.12	0.032
62.00	-28.29	-1.21	0.00	-116.19	0.00	116.19	3,428.79	1,714.39	5,558.89	2,783.58	0.81	-0.13	0.032
63.00	-28.00	-1.18	0.00	-114.99	0.00	114.99	3,414.86	1,707.43	5,505.28	2,756.73	0.84	-0.13	0.032
64.00	-27.72	-1.16	0.00	-113.80	0.00	113.80	3,400.87	1,700.44	5,451.82	2,729.96	0.86	-0.13	0.032
65.00	-27.43	-1.14	0.00	-112.64	0.00	112.64	3,386.83	1,693.41	5,398.53	2,703.28	0.89	-0.13	0.032
66.00	-27.14	-1.12	0.00	-111.50	0.00	111.50	3,372.72	1,686.36	5,345.41	2,676.68	0.92	-0.14	0.032
67.00	-26.86	-1.10	0.00	-110.39	0.00	110.39	3,358.57	1,679.28	5,292.45	2,650.16	0.95	-0.14	0.032
68.00	-26.58	-1.07	0.00	-109.29	0.00	109.29	3,344.35	1,672.18	5,239.65	2,623.72	0.98	-0.14	0.031
69.00	-26.29	-1.05	0.00	-108.22	0.00	108.22	3,330.08	1,665.04	5,187.03	2,597.37	1.01	-0.14	0.031
70.00	-26.01	-1.03	0.00	-107.16	0.00	107.16	3,315.75	1,657.87	5,134.58	2,571.11	1.04	-0.14	0.031
71.00	-25.73	-1.01	0.00	-106.13	0.00	106.13	3,301.36	1,650.68	5,082.30	2,544.93	1.07	-0.15	0.031
72.00	-25.45	-0.99	0.00	-105.12	0.00	105.12	3,286.92	1,643.46	5,030.20	2,518.84	1.10	-0.15	0.031
73.00	-25.17	-0.97	0.00	-104.12	0.00	104.12	3,272.42	1,636.21	4,978.27	2,492.84	1.13	-0.15	0.031
74.00	-24.89	-0.96	0.00	-103.15	0.00	103.15	3,257.86	1,628.93	4,926.52	2,466.92	1.16	-0.15	0.031
75.00	-24.61	-0.94	0.00	-102.19	0.00	102.19	3,242.30	1,621.15	4,873.54	2,440.39	1.20	-0.16	0.031
76.00	-24.34	-0.92	0.00	-101.26	0.00	101.26	3,222.90	1,611.45	4,815.08	2,411.12	1.23	-0.16	0.031
77.00	-24.06	-0.90	0.00	-100.33	0.00	100.33	3,203.49	1,601.75	4,756.98	2,382.03	1.26	-0.16	0.031
78.00	-23.78	-0.89	0.00	-99.43	0.00	99.43	3,184.09	1,592.04	4,699.23	2,353.11	1.30	-0.16	0.031
79.00	-23.51	-0.87	0.00	-98.54	0.00	98.54	3,164.68	1,582.34	4,641.84	2,324.37	1.33	-0.17	0.031
80.00	-23.00	-0.85	0.00	-97.67	0.00	97.67	3,145.28	1,572.64	4,584.79	2,295.80	1.37	-0.17	0.030
81.00	-22.72	-0.83	0.00	-96.82	0.00	96.82	3,125.87	1,562.94	4,528.10	2,267.42	1.40	-0.17	0.030
82.00	-22.45	-0.82	0.00	-95.99	0.00	95.99	3,106.47	1,553.24	4,471.77	2,239.21	1.44	-0.17	0.030
83.00	-22.18	-0.81	0.00	-95.17	0.00	95.17	3,087.07	1,543.53	4,415.78	2,211.17	1.47	-0.18	0.030
84.00	-21.91	-0.80	0.00	-94.36	0.00	94.36	3,067.66	1,533.83	4,360.15	2,183.32	1.51	-0.18	0.030
85.00	-21.64	-0.79	0.00	-93.56	0.00	93.56	3,048.26	1,524.13	4,304.87	2,155.63	1.55	-0.18	0.030
86.00	-21.37	-0.78	0.00	-92.78	0.00	92.78	3,028.85	1,514.43	4,249.94	2,128.13	1.59	-0.18	0.030
87.00	-21.22	-0.78	0.00	-91.99	0.00	91.99	3,009.45	1,504.72	4,195.37	2,100.80	1.63	-0.19	0.030
87.54	-21.05	-0.77	0.00	-91.58	0.00	91.58	2,998.97	1,499.48	4,166.05	2,086.12	1.65	-0.19	0.030
88.00	-20.69	-0.76	0.00	-91.22	0.00	91.22	2,990.04	1,495.02	4,141.15	2,073.65	1.66	-0.19	0.030
89.00	-20.32	-0.76	0.00	-90.46	0.00	90.46	2,970.64	1,485.32	4,087.28	2,046.68	1.70	-0.19	0.030
90.00	-19.96	-0.75	0.00	-89.70	0.00	89.70	2,951.23	1,475.62	4,033.76	2,019.88	1.74	-0.19	0.030
91.00	-19.59	-0.75	0.00	-88.95	0.00	88.95	2,931.83	1,465.91	3,980.60	1,993.26	1.79	-0.20	0.030
92.00	-19.43	-0.75	0.00	-88.20	0.00	88.20	2,912.42	1,456.21	3,927.79	1,966.81	1.83	-0.20	0.030
92.46	-19.29	-0.75	0.00	-87.86	0.00	87.86	2,412.07	1,206.04	3,317.78	1,661.36	1.85	-0.20	0.033
93.00	-19.05	-0.75	0.00	-87.45	0.00	87.45	2,405.85	1,202.93	3,297.34	1,651.12	1.87	-0.20	0.033
94.00	-18.80	-0.75	0.00	-86.70	0.00	86.70	2,394.36	1,197.18	3,259.83	1,632.34	1.91	-0.20	0.033
95.00	-18.55	-0.75	0.00	-85.96	0.00	85.96	2,382.81	1,191.41	3,222.46	1,613.62	1.95	-0.21	0.033
96.00	-17.89	-0.76	0.00	-85.20	0.00	85.20	2,371.21	1,185.60	3,185.22	1,594.98	2.00	-0.21	0.033
97.00	-17.65	-0.76	0.00	-84.44	0.00	84.44	2,359.55	1,179.77	3,148.11	1,576.40	2.04	-0.21	0.033
98.00	-17.40	-0.77	0.00	-83.68	0.00	83.68	2,347.83	1,173.91	3,111.14	1,557.88	2.09	-0.22	0.033
99.00	-17.16	-0.78	0.00	-82.91	0.00	82.91	2,336.05	1,168.03	3,074.31	1,539.44	2.13	-0.22	0.033
100.00	-16.92	-0.79	0.00	-82.13	0.00	82.13	2,324.22	1,162.11	3,037.61	1,521.06	2.18	-0.22	0.032
101.00	-16.68	-0.79	0.00	-81.35	0.00	81.35	2,312.33	1,156.16	3,001.06	1,502.76	2.23	-0.22	0.032
102.00	-16.44	-0.80	0.00	-80.55	0.00	80.55	2,300.38	1,150.19	2,964.65	1,484.53	2.27	-0.23	0.032
103.00	-16.20	-0.82	0.00	-79.75	0.00	79.75	2,288.38	1,144.19	2,928.39	1,466.37	2.32	-0.23	0.032
104.00	-16.08	-0.82	0.00	-78.93	0.00	78.93	2,276.31	1,138.16	2,892.27	1,448.28	2.37	-0.23	0.032
104.50	-15.99	-0.83	0.00	-78.52	0.00	78.52	2,270.26	1,135.13	2,874.26	1,439.27	2.39	-0.24	0.032
104.50	-15.99	-0.83	0.00	-78.52	0.00	78.52	2,270.26	1,135.13	2,874.26	1,439.27	2.39	-0.24	0.062
105.00	-15.81	-0.84	0.00	-78.11	0.00	78.11	2,264.20	1,132.10	2,856.29	1,430.27	2.42	-0.24	0.062
106.00	-15.63	-0.85	0.00	-77.27	0.00	77.27	2,251.29	1,125.65	2,819.56	1,411.88	2.47	-0.24	0.062
107.00	-15.45	-0.86	0.00	-76.42	0.00	76.42	2,235.12	1,117.56	2,779.00	1,391.56	2.52	-0.25	0.062
108.00	-15.27	-0.87	0.00	-75.56	0.00	75.56	2,218.95	1,109.48	2,738.73	1,371.40	2.57	-0.26	0.062
109.00	-15.09	-0.89	0.00	-74.69	0.00	74.69	2,202.78	1,101.39	2,698.75	1,351.38	2.63	-0.26	0.062
110.00	-14.91	-0.90	0.00	-73.81	0.00	73.81	2,186.61	1,093.30	2,659.07	1,331.51	2.68	-0.27	0.062
111.00	-14.67	-0.92	0.00	-72.91	0.00	72.91	2,170.44	1,085.22	2,619.69	1,311.79	2.74	-0.27	0.062
112.00	-14.52	-0.93	0.00	-71.99	0.00	71.99	2,154.27	1,077.13	2,580.59	1,292.21	2.80	-0.28	0.062
113.00	-12.95	-1.04	0.00	-71.07	0.00	71.07	2,138.10	1,069.05	2,541.79	1,272.79	2.86	-0.29	0.062

114.00	-12.82	-1.05	0.00	-70.03	0.00	70.03	2,121.93	1,060.96	2,503.29	1,253.50	2.92	-0.29	0.062
115.00	-12.70	-1.06	0.00	-68.98	0.00	68.98	2,105.76	1,052.88	2,465.08	1,234.37	2.98	-0.30	0.062
116.00	-12.57	-1.07	0.00	-67.92	0.00	67.92	2,089.59	1,044.79	2,427.16	1,215.38	3.04	-0.31	0.062
117.00	-12.44	-1.08	0.00	-66.86	0.00	66.86	2,073.42	1,036.71	2,389.54	1,196.54	3.11	-0.31	0.062
118.00	-12.32	-1.09	0.00	-65.78	0.00	65.78	2,057.25	1,028.62	2,352.21	1,177.85	3.18	-0.32	0.062
119.00	-12.20	-1.10	0.00	-64.69	0.00	64.69	2,041.07	1,020.54	2,315.17	1,159.31	3.24	-0.33	0.062
120.00	-12.07	-1.11	0.00	-63.59	0.00	63.59	2,024.90	1,012.45	2,278.43	1,140.91	3.31	-0.33	0.062
121.00	-11.95	-1.12	0.00	-62.48	0.00	62.48	2,008.73	1,004.37	2,241.98	1,122.66	3.38	-0.34	0.062
122.00	-10.31	-1.23	0.00	-61.36	0.00	61.36	1,992.56	996.28	2,205.83	1,104.55	3.46	-0.35	0.061
123.00	-10.19	-1.24	0.00	-60.12	0.00	60.12	1,976.39	988.20	2,169.97	1,086.60	3.53	-0.35	0.060
124.00	-10.08	-1.25	0.00	-58.88	0.00	58.88	1,960.22	980.11	2,134.40	1,068.79	3.60	-0.36	0.060
125.00	-9.97	-1.26	0.00	-57.63	0.00	57.63	1,944.05	972.03	2,099.13	1,051.12	3.68	-0.37	0.060
126.00	-9.86	-1.27	0.00	-56.37	0.00	56.37	1,927.88	963.94	2,064.15	1,033.61	3.76	-0.38	0.060
127.00	-9.75	-1.27	0.00	-55.11	0.00	55.11	1,911.71	955.86	2,029.46	1,016.24	3.84	-0.38	0.059
128.00	-9.64	-1.28	0.00	-53.83	0.00	53.83	1,895.54	947.77	1,995.07	999.02	3.92	-0.39	0.059
129.00	-9.53	-1.29	0.00	-52.55	0.00	52.55	1,879.37	939.68	1,960.98	981.95	4.00	-0.40	0.059
130.00	-9.42	-1.29	0.00	-51.26	0.00	51.26	1,863.20	931.60	1,927.17	965.02	4.09	-0.40	0.058
131.00	-9.31	-1.30	0.00	-49.97	0.00	49.97	1,847.03	923.51	1,893.66	948.24	4.17	-0.41	0.058
132.00	-9.30	-1.30	0.00	-48.67	0.00	48.67	1,830.86	915.43	1,860.45	931.61	4.26	-0.42	0.057
132.12	-9.16	-1.31	0.00	-48.51	0.00	48.51	1,828.92	914.46	1,856.49	929.63	4.27	-0.42	0.057
133.00	-9.01	-1.31	0.00	-47.37	0.00	47.37	1,814.69	907.34	1,827.53	915.12	4.35	-0.43	0.057
134.00	-8.86	-1.32	0.00	-46.05	0.00	46.05	1,798.52	899.26	1,794.90	898.78	4.44	-0.43	0.056
135.00	-8.73	-1.32	0.00	-44.74	0.00	44.74	1,782.35	891.17	1,762.57	882.59	4.53	-0.44	0.056
135.87	-8.72	-1.32	0.00	-43.59	0.00	43.59	993.95	496.97	1,000.68	501.09	4.61	-0.45	0.096
136.00	-8.65	-1.32	0.00	-43.42	0.00	43.42	993.20	496.60	998.76	500.12	4.62	-0.45	0.096
137.00	-5.97	-1.35	0.00	-42.09	0.00	42.09	987.45	493.72	984.00	492.73	4.72	-0.46	0.091
138.00	-5.90	-1.36	0.00	-40.74	0.00	40.74	981.64	490.82	969.28	485.36	4.81	-0.47	0.090
139.00	-5.82	-1.36	0.00	-39.38	0.00	39.38	975.77	487.88	954.62	478.02	4.91	-0.48	0.088
140.00	-5.31	-1.35	0.00	-38.03	0.00	38.03	969.84	484.92	940.01	470.70	5.01	-0.49	0.086
141.00	-5.24	-1.35	0.00	-36.68	0.00	36.68	963.86	481.93	925.45	463.41	5.12	-0.50	0.085
142.00	-5.17	-1.35	0.00	-35.32	0.00	35.32	957.82	478.91	910.95	456.15	5.22	-0.51	0.083
143.00	-5.10	-1.35	0.00	-33.97	0.00	33.97	951.72	475.86	896.50	448.92	5.33	-0.52	0.081
144.00	-5.03	-1.35	0.00	-32.62	0.00	32.62	945.56	472.78	882.11	441.71	5.44	-0.53	0.079
145.00	-4.96	-1.34	0.00	-31.27	0.00	31.27	939.35	469.68	867.78	434.53	5.56	-0.54	0.077
146.00	-4.27	-1.31	0.00	-29.93	0.00	29.93	933.08	466.54	853.51	427.39	5.67	-0.55	0.075
147.00	-4.21	-1.30	0.00	-28.62	0.00	28.62	926.76	463.38	839.30	420.27	5.79	-0.56	0.073
148.00	-4.14	-1.30	0.00	-27.32	0.00	27.32	920.37	460.19	825.16	413.19	5.91	-0.57	0.071
149.00	-4.08	-1.29	0.00	-26.03	0.00	26.03	913.93	456.97	811.08	406.14	6.03	-0.58	0.069
150.00	-4.02	-1.29	0.00	-24.73	0.00	24.73	907.44	453.72	797.07	399.13	6.15	-0.59	0.066
151.00	-3.95	-1.28	0.00	-23.45	0.00	23.45	900.88	450.44	783.12	392.14	6.28	-0.60	0.064
152.00	-3.75	-1.26	0.00	-22.17	0.00	22.17	894.27	447.14	769.25	385.20	6.40	-0.61	0.062
153.00	-3.69	-1.25	0.00	-20.91	0.00	20.91	887.60	443.80	755.45	378.29	6.53	-0.62	0.059
154.00	-3.63	-1.24	0.00	-19.66	0.00	19.66	880.88	440.44	741.72	371.41	6.66	-0.63	0.057
155.00	-3.57	-1.23	0.00	-18.42	0.00	18.42	874.09	437.05	728.06	364.57	6.80	-0.64	0.055
156.00	-3.51	-1.22	0.00	-17.19	0.00	17.19	867.26	433.63	714.49	357.77	6.93	-0.64	0.052
157.00	-3.45	-1.21	0.00	-15.96	0.00	15.96	860.36	430.18	700.99	351.01	7.07	-0.65	0.049
158.00	-3.39	-1.20	0.00	-14.75	0.00	14.75	853.41	426.70	687.57	344.29	7.21	-0.66	0.047
159.00	-3.33	-1.19	0.00	-13.55	0.00	13.55	846.39	423.20	674.23	337.61	7.34	-0.67	0.044
160.00	-3.27	-1.18	0.00	-12.36	0.00	12.36	839.33	419.66	660.97	330.98	7.48	-0.67	0.041
161.00	-3.21	-1.16	0.00	-11.19	0.00	11.19	832.20	416.10	647.80	324.38	7.63	-0.68	0.038
162.00	-3.15	-1.15	0.00	-10.02	0.00	10.02	825.02	412.51	634.71	317.83	7.77	-0.69	0.035
163.00	-2.01	-0.85	0.00	-8.88	0.00	8.88	817.78	408.89	621.71	311.32	7.91	-0.69	0.031
164.00	-1.96	-0.84	0.00	-8.02	0.00	8.02	810.15	405.07	608.54	304.72	8.06	-0.70	0.029
165.00	-1.91	-0.83	0.00	-7.18	0.00	7.18	800.44	400.22	593.98	297.43	8.21	-0.70	0.027
166.00	-1.87	-0.81	0.00	-6.36	0.00	6.36	790.74	395.37	579.60	290.23	8.35	-0.71	0.024
167.00	-1.82	-0.80	0.00	-5.55	0.00	5.55	781.04	390.52	565.39	283.11	8.50	-0.71	0.022
168.00	-1.77	-0.78	0.00	-4.75	0.00	4.75	771.34	385.67	551.35	276.09	8.65	-0.71	0.020
169.00	-1.73	-0.76	0.00	-3.97	0.00	3.97	761.63	380.82	537.50	269.15	8.80	-0.72	0.017
170.00	-1.68	-0.75	0.00	-3.21	0.00	3.21	751.93	375.97	523.82	262.30	8.95	-0.72	0.014
171.00	-1.63	-0.73	0.00	-2.46	0.00	2.46	742.23	371.11	510.32	255.54	9.10	-0.72	0.012
172.00	-1.59	-0.71	0.00	-1.73	0.00	1.73	732.53	366.26	496.99	248.86	9.25	-0.72	0.009
173.00	-1.55	-0.69	0.00	-1.02	0.00	1.02	722.82	361.41	483.84	242.28	9.40	-0.72	0.006
174.00	-0.21	-0.11	0.00	-0.33	0.00	0.33	713.12	356.56	470.86	235.78	9.56	-0.72	0.002
175.00	-0.17	-0.09	0.00	-0.22	0.00	0.22	703.42	351.71	458.07	229.37	9.71	-0.72	0.001

176.00	-0.13	-0.07	0.00	-0.13	0.00	0.13	693.72	346.86	445.44	223.05	9.86	-0.72	0.001
177.00	-0.08	-0.05	0.00	-0.07	0.00	0.07	684.02	342.01	433.00	216.82	10.01	-0.72	0.000
178.00	-0.04	-0.02	0.00	-0.02	0.00	0.02	674.31	337.16	420.73	210.68	10.16	-0.72	0.000
179.00	0.00	0.00	0.00	0.00	0.00	0.00	664.61	332.31	408.64	204.62	10.31	-0.72	0.000
180.00	0.00	0.00	0.00	0.00	0.00	0.00	654.91	327.45	396.72	198.65	10.47	-0.72	0.000

Analysis Summary

Load Case	Reactions Shear FX (kips)	Shear FZ (kips)	Axial FY (kips)	Moment MX (ft-kips)	Moment MY (ft-kips)	Moment MZ (ft-kips)	Max Usage Elev (ft)	Interaction Ratio
1.2D + 1.6W	42.71	0.00	72.39	0.00	0.00	4967.30	135.87	0.78
0.9D + 1.6W	41.36	0.00	54.29	0.00	0.00	4804.69	135.87	0.74
1.2D + 1.0Di + 1.0Wi	7.09	0.00	155.02	0.00	0.00	958.45	135.87	0.23
(1.2 + 0.2Sds) * DL + E ELFM	2.47	0.00	71.35	0.00	0.00	325.05	104.50	0.06
(1.2 + 0.2Sds) * DL + E EMAM	2.61	0.00	71.35	0.00	0.00	243.90	135.87	0.10
(0.9 - 0.2Sds) * DL + E ELFM	2.47	0.00	49.71	0.00	0.00	319.93	104.50	0.06
(0.9 - 0.2Sds) * DL + E EMAM	2.61	0.00	49.71	0.00	0.00	239.84	135.87	0.10
1.0D + 1.0W	10.81	0.00	60.34	0.00	0.00	1263.08	135.87	0.21

Additional Steel Summary

Elev From (ft)	Elev To (ft)	Member	Intermediate Connectors VQ/I (lb/in)	Shear Applied (kips)	Shear phiVn (kips)	Upper Termination Connectors MQ/I (kips)	phiVn (kips)	Num Reqd	Num Actual	Lower Termination Connectors MQ/I (kips)	phiVn (kips)	Num Reqd	Num Actual	Max Member Pu (kip)	phiPn (kip)	Ratio
0.00	104.	(4) SOL-#20 All Thre	352.9	10.6	16.8	164.0	12.0	14	24	0.0	12.0	0	0	262.4	330.5	0.794

Code Rev.	***G***	**Date**	1/5/2017
		Engineer	AT
		Site #	302506
Moment	4967.3 k-ft	**Carrier**	AT&T
Axial	72.4 k		

Base/Flange Plate	Plate Type	***Baseplate***	
	Pole Diameter	52.75	in
	Pole Thickness	0.4375	in
	Plate Diameter	68	in
	Plate Thickness	2	in
	Plate Fy	60	ksi
	Weld Length	0.3125	in
	ϕ_s Resistance	1868.57	k-in
	Applied	545.41	k-in
Stiffeners	#	***16***	***Show***
	Thickness	0.75	in
	Length	6	in
	Height	15	in
	Chamfer	1	in
	Offset Angle	45	°
	Fy	36	ksi

Bolts	#	***16***	
	Bolt Circle	62	in
	(R)adial / (S)quare	R	
●	Diameter	2.25	in
	Hole Diameter	2.625	in
	Type	A615-75	
	Fy	75	ksi
	Fu	100	ksi
	ϕ_s Resistance	259.82	k
	Applied	181.80	k
Reinforcement ●	#	***4***	
	DYW. Circle	59.625	in
	Offset Angle	16	°
	Type	#20	
	Diameter	2.5	in
	Fu	100	ksi
	ϕ_s Resistance	392.70	k
	Applied	251.58	k
Extra Bolts O	#	***0***	

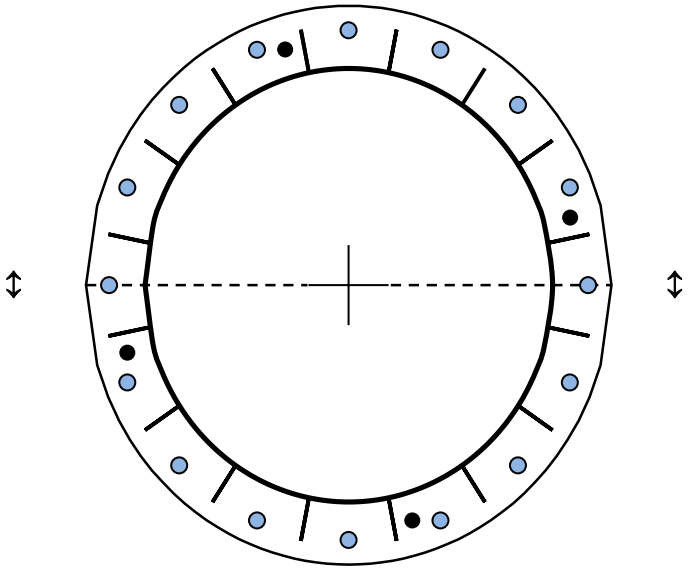
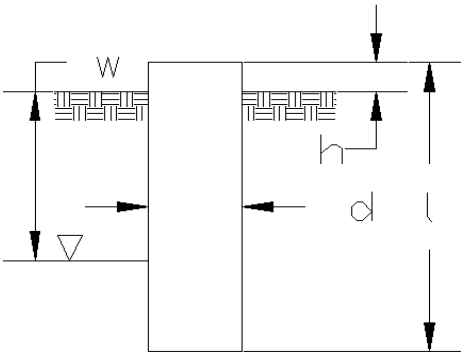


Plate Stress Ratio:
0.29 (Pass)

Bolt Stress Ratio:
0.70 (Pass)

Reinforcement Stress Ratio:
0.64 (Pass)

Site Name:	Winchester CT3	*Program Last Updated:*	*5/13/2014*
Site Number:	302506	*American Tower Corporation*	
Engineer:	AT		
Engineering Number:	OAA692405		
Date:	01/05/16		



Design Base Loads (Factored) - Analysis per TIA-222-G Standards

Analyze or Design a Foundation?	Analyze	
Foundation Mapped:	N	
Moment (M):	4967.3	k-ft
Shear/Leg (V):	42.7	k
Axial Load (P):	72.4	k
Uplift/Leg (U):	0.0	k
Tower Type (GT / SST / MP):	MP	
Diameter of Caisson (d):	7.0	ft
Caisson Embedment (L-h):	17.5	ft
Caisson Height Above Ground (h):	0.5	ft
Depth Below Ground Surface to Water Table (w):	99.0	ft
Unit Weight of Concrete:	150.0	pcf
Unit Weight of Water:	62.4	pcf
Tension Skin Friction/Compression Skin Friction:	1.00	
Pullout Angle:	35.0	degrees

Engineer Notes

Soil Mechanical Properties

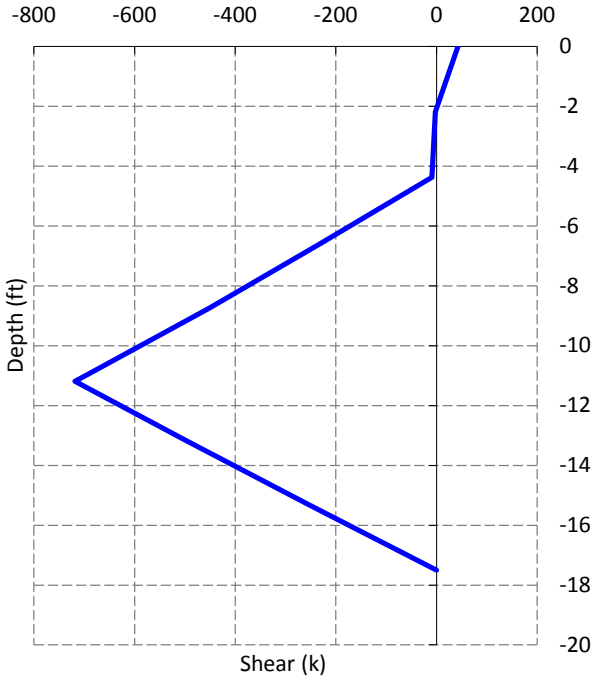
Depth (ft) Top	Depth (ft) Bottom	γ_{Soil} (pcf)	Cohesion (psf)	ϕ (degree)	Ultimate Skin Friction (psf)	Ultimate Bearing Pressure (psf)
0.0	2.5	115	0	0	0	0
2.5	7.5	125	4300		2100	0
7.5	18.5	130	4500		2100	40715

Required Embedment:	15.3	ft - OK, Caisson Embedment Satisfactory
Volume of Concrete:	692.7	ft^3 = 25.7 yd^3
Weight of Concrete (Buoyancy Effect Considered):	103.9	k
Average Soil Unit Weight:	126.4	pcf
Skin Friction Resistance:	692.7	k
Compressive Bearing Resistance:	1566.9	k
Pullout Weight (Minus Concrete Weight):	646.0	k
Nominal Uplift Capacity per Leg ($\phi_s T_n$):	484.5	k
Nominal Compressive Capacity per Leg ($\phi_s P_n$):	1694.7	k
P_u:	91.4	k
$T_u/\phi_s T_n$:	0.00	Result: OK
$P_u/\phi_s P_n$:	0.05	Result: OK
Total Lateral Resistance:	3114.9	k
Inflection Point (Below Ground Surface):	11.2	ft
Design Overturning Moment At Inflection Point (M_D):	5466.5	k-ft
Nominal Moment Capacity ($\phi_s M_n$):	7693.9	k-ft
$M_D/\phi_s M_n$:	0.71	Result: OK
ϕ_s:	0.75	

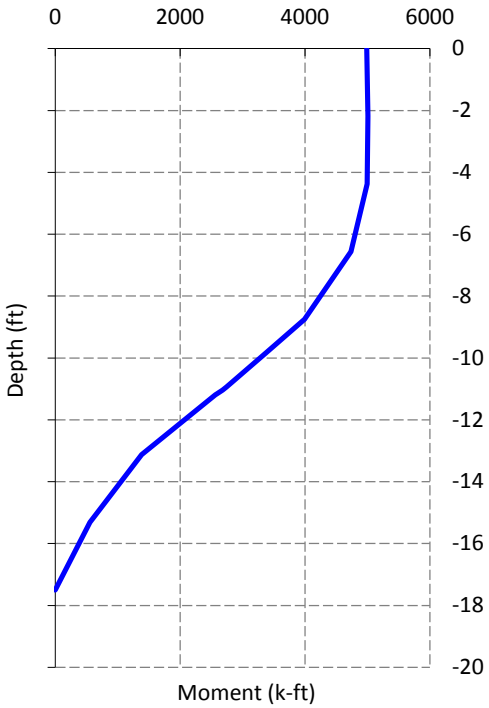
Caisson Strength Capacity

Concrete Compressive Strength (f'_c):	4000	psi
Vertical Steel Rebar Size #:	11	
Vertical Steel Rebar Area:	1.56	in^2
# of Vertical Steel Rebars:	42	
Vertical Steel Rebar Yield Strength (F_y):	60	ksi
Horizontal Tie / Stirrup Size #:	5	
Horizontal Tie / Stirrup Area:	0.31	in^2
Design Horizontal Tie / Stirrup Spacing:	12.0	in
Horizontal Tie / Stirrup Steel Yield Strength (F_y):	60	ksi
Rebar Cage Diameter:	76.0	in
Strength Bending/Tension Reduction Factor (ϕ_B):	0.90	ACI318-05 - 9.3.2.1
Strength Shear Reduction Factor (ϕ_V):	0.75	ACI318-05 - 9.3.2.3
Strength Compression Reduction Factor (ϕ_V):	0.65	ACI318-05 - 9.3.2.2
Steel Elastic Modulus:	29000	ksi
Design Moment (M_u):	5007.7	k-ft
Nominal Moment Capacity ($\phi_B M_n$):	10956.3	k-ft - ACI318-005 - 10.2
$M_u/\phi_B M_n$:	0.46	Result: OK
Design Shear (V_u):	718.5	k
Nominal Shear Capacity ($\phi_V V_n$):	685.4	k - ACI318-05 - 11.3.1.1 or 11.5.7.2
$V_u/\phi_V V_n$:	1.05	Result: Acceptable Overstress
Design Tension (T_u):	0.0	k
Nominal Tension Capacity ($\phi_T T_n$):	3538.1	k - ACI318-05 - 10.2
$T_u/\phi_T T_n$:	0.00	Result: OK
Design Compression (P_u):	91.4	k
Nominal Compression Capacity ($\phi_P P_n$):	9682.0	k - ACI318-05 - 10.3.6.2
$P_u/\phi_P P_n$:	0.01	Result: OK
Bending Reinforcement Ratio:	0.012	ACI318-05 - 10.8.4 & 10.9.1
$M_u/\phi_B M_n + T_u/\phi_T T_n$:	0.46	Result: OK

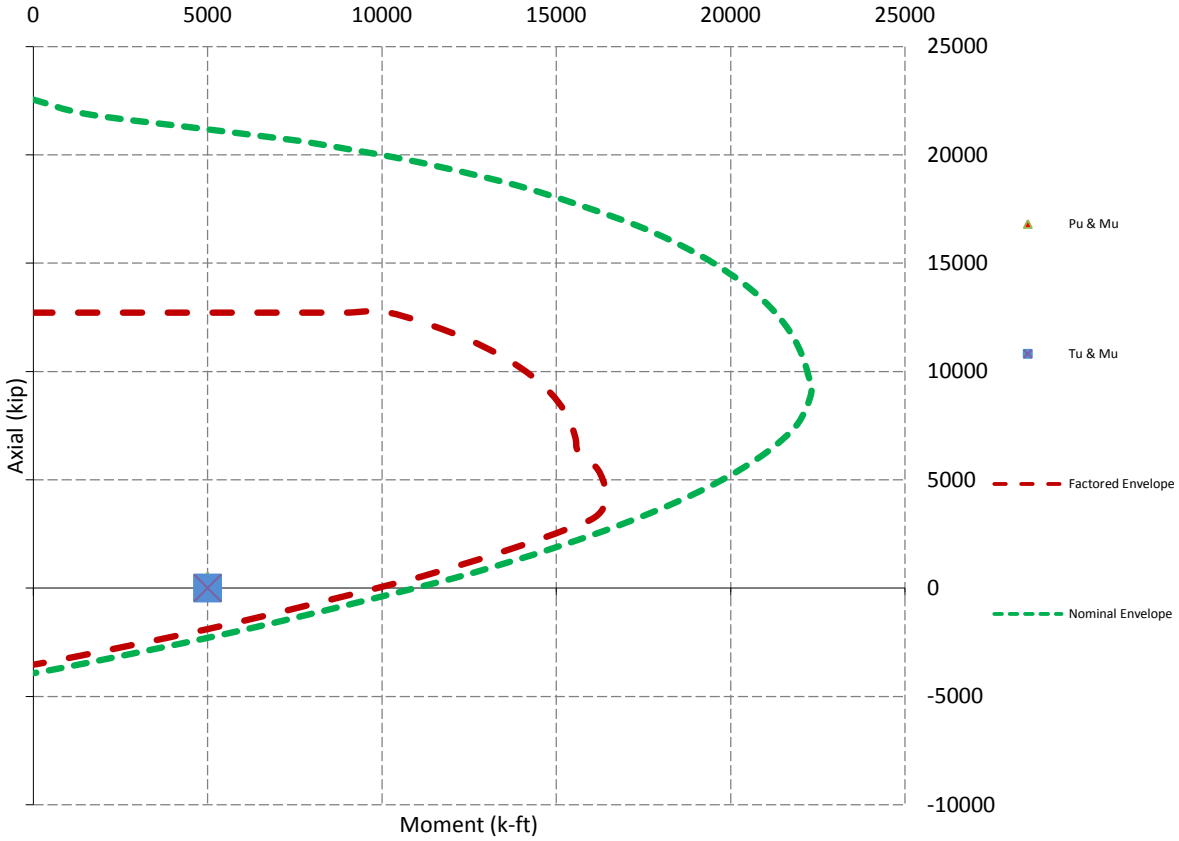
Design Factored Shear / Depth



Design Factored Moment / Depth



Nominal and Factored Moment Capacity and Factored Design Loads



108 OAKDALE AVE

Location	108 OAKDALE AVE	**Mblu**	028/ 151/ 002-1/ /
Acct#	103466	**Owner**	STOW WILLIAM P REVOCABLE TRUST
Assessment	$90,650	**Appraisal**	$129,500
PID	4991	**Building Count**	1

Current Value

Appraisal			
Valuation Year	**Improvements**	**Land**	**Total**
2012	$19,900	$109,600	$129,500

Assessment			
Valuation Year	**Improvements**	**Land**	**Total**
2012	$13,930	$76,720	$90,650

Owner of Record

Owner	STOW WILLIAM P REVOCABLE TRUST	**Sale Price**	$0
Co-Owner	C/O AMERICAN TOWER #302506	**Certificate**	
		Book & Page	411/ 779
		Sale Date	03/12/2013
		Instrument	29

Ownership History

Ownership History					
Owner	**Sale Price**	**Certificate**	**Book & Page**	**Instrument**	**Sale Date**
STOW WILLIAM P REVOCABLE TRUST	$0		411/ 779	29	03/12/2013
STOW WILLIAM P & RICHARD D	$0		00260/0171		11/16/1995

Building Information

Building 1 : Section 1

Year Built: 2004
Living Area: 360
Replacement Cost Less Depreciation: $13,700

Building Attributes	
Field	**Description**
STYLE	Warehse Prefab
MODEL	Ind/Comm

Building Photo

Stories:	1
Occupancy	1
Exterior Wall 1	Pre-cast Concr
Exterior Wall 2	
Roof Structure	Flat
Roof Cover	Metal/Tin
Interior Wall 1	Minimum
Interior Wall 2	
Interior Floor 1	Concrete Slab
Interior Floor 2	
Heating Fuel	Gas/Oil
Heating Type	Hot Air-no Duc
AC Type	None
Bldg Use	Tele Tower
Heat/AC	NONE
Frame Type	MASONRY
Baths/Plumbing	NONE
Ceiling/Wall	NONE
Rooms/Prtns	LIGHT
Wall Height	12

(http://images.vgsi.com/photos/WinchesterCTPhotos//\01\00\49/10.jpg)

Building Layout

Building Sub-Areas (sq ft)			Legend
Code	**Description**	**Gross Area**	**Living Area**
BAS	First Floor	360	360
SLB	Slab	360	0
		720	360

Extra Features

Extra Features	Legend
No Data for Extra Features	

Land

Land Use

Use Code	4310
Description	Tele Tower
Zone	RU-2
Alt Land Appr	No
Category	

Land Line Valuation

Size (Acres)	3.39
Depth	
Assessed Value	$76,720
Appraised Value	$109,600

Outbuildings

Outbuildings						Legend
Code	**Description**	**Sub Code**	**Sub Description**	**Size**	**Value**	**Bldg #**
SHD8	Shd Com Mas			252 S.F.	$6,200	1

Valuation History

Appraisal			
Valuation Year	**Improvements**	**Land**	**Total**
2011	$15,900	$114,300	$130,200

Assessment			
Valuation Year	**Improvements**	**Land**	**Total**
2011	$11,130	$80,010	$91,140

PREPARED BY

GEOD CORPORATION
PHOTOGRAMMETRIC SCIENCES
SURVEY TECHNOLOGIES
73 OAK RIDGE ROAD-OAK RIDGE,N.J. 07438

PREPARED FOR TAX PURPOSES ONLY,NOT TO BE USED FOR CONVEYANCES

REVISIONS

DATE	MADE BY	CHANGES/ADDITIONS
8 - 89	A. S.	SURVEY 1285,1305
11-05	DLS	1882
11-07	DLS	1896,1936,1937,1985

REVISIONS

DATE	MADE BY	CHANGES/ADDITIONS

LEGEND

TOWN LINE	
BLOCK LINE	
LOT LINE	
DENOTES COMMON OWNER	
TAX MAP BLOCK NUMBER	(12)
TAX MAP LOT NUMBER	(2)
CALC. ACREAGE	75 AC. (C)
RECORD ACREAGE	18.2 AC.
SCALED DIMENSION	100' (S)
RECORD DIMENSION	142.52'

ROAD	
TRAIL	
RAILROAD	
GUARDRAIL	
FENCE	
RETAINING WALL	
STONE WALL	
WALL	
STREAM,RIVER	
LAKE,POND	
CULVERT	
BRIDGE	

HIGH VOLTAGE TRANSMISSION LINE	
WOODED AREA TREES BUILDINGS	
WETLANDS	
SURVEY NO.	S-0000

N

107	108	
111	112	
	116	117

INDEX SHEET

MAP NO. 112

TAX MAP

TOWN OF WINCHESTER
LITCHFIELD COUNTY,CONNECTICUT

100 0 100 200
GRAPHIC SCALE
MAP DATE: 9/86