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January 18, 2017

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) – CT1056
297 North Street, Plymouth, CT 06782
N 41-41-35.13
W 73-03-13.19

Dear Ms. Bachman:

AT&T currently maintains nine (9) antennas at the 185-foot level of the existing 180-foot Monopole at 297 North Street, Plymouth, CT. The tower is owned by American Tower. The property is owned by Raymond and Brenda Lagosz. AT&T now intends to replace three (3) of its existing Ericsson remote radio units (RRUS-12) with three (3) Ericsson RRUS-32 B2 units.

This facility was approved by the Connecticut Siting Council in Docket # 0138.3 on November 26, 1990. This approval included the condition that the total facility height not exceed 192 feet. Since the highest point of the existing tower facility (including appurtenances) is 187' AGL, and no increase in height is proposed, 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 David V. Merchant, Mayor of the Town of Plymouth and the Plymouth Land Use Department as well as the property owner and the tower owner.

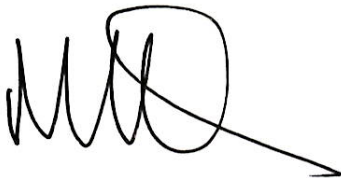
The planned modifications to the facility fall squarely within those activities explicitly provided for in R.C.S.A. § 16-50j-72(b)(2).

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,

A handwritten signature in black ink, consisting of a series of loops and a long, sweeping tail that extends to the right.

Mark Roberts
QC Development
Consultant for AT&T

Attachments

cc: Honorable David V. Merchant - elected official
Scott Eisenlohr - ZEO
American Tower - tower owner (via e-mail)
Raymond and Brenda Lagosz - as property owners

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*							0.41%
AT&T	2	628	185	0.0141	700	0.4667	0.30%
AT&T	4	349	185	0.0157	850	0.5667	0.28%
AT&T	2	910	185	0.0204	2100	1.0000	0.20%
AT&T	2	641	185	0.0144	700	0.4667	0.31%
Site Total							1.50%

*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

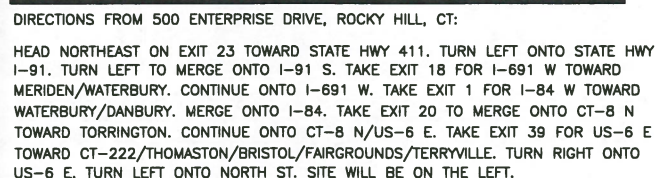
Carrier	# of Channels	ERP/Ch (W)	Antenna Centerline Height (ft)	Power Density (mW/cm ²)	Freq. Band (MHz**)	Limit S (mW/cm ²)	%MPE
Other Carriers*							0.41%
AT&T GSM	1	254	185	0.0029	850	0.5667	0.05%
AT&T UMTS	2	254	185	0.0057	850	0.5667	0.10%
AT&T UMTS	1	303	185	0.0034	1900	1.0000	0.03%
AT&T LTE 700	1	1476	185	0.0166	700	0.4667	0.35%
AT&T LTE 1900	2	2421	185	0.0543	1900	1.0000	0.54%
Site Total							1.49%

*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



SITE NAME: PLYMOUTH
SITE NUMBER: CT1056
297 NORTH STREET
PLYMOUTH, CT 06782



LATITUDE: 41°-41'-35.16" N (NAD83)
LONGITUDE: 73°-03'-13.197" W (NAD83)
(PER GOOGLE EARTH)

GRADE ELEVATION AT TOWER = 820'± A.M.S.L.
(PER GOOGLE EARTH)

SITE INFORMATION

- SWAP EXISTING AWS RRUS-12 WITH 1900 RRUS-32 (TYP.-1 PER SECTOR) (3 TOTAL).
- ADD XMU.

PROJECT DESCRIPTION

PLYMOUTH

CT1056

297 NORTH STREET
PLYMOUTH, CT 06782
LITCHFIELD COUNTY

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

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.

[illegible]

SHEET INDEX



CT1056
PLYMOUTH

CONSTRUCTION DRAWINGS

O	01/16/17	ISSUED FOR CONSTRUCTION
A	01/03/17	ISSUED FOR REVIEW



600 PARSIPPANY ROAD
SUITE 301
PARSIPPANY, NJ 07054
PHONE: 973.739.9400
FAX: 973.739.9710



DRAWN BY: SK

REVIEWED BY:	DER
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CHECKED BY:	GHN
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PROJECT NUMBER:	50055106
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JOB NUMBER:	50065682
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SITE ADDRESS:

297 NORTH STREET
PLYMOUTH, CT 06782
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 LARGER2 IN.
#5 AND SMALLER & WWF.....1 1/2 IN.
CONCRETE NOT EXPOSED TO EARTH OR WEATHER
OR NOT CAST AGAINST THE GROUND:
SLAB AND WALL3/4 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 CABLEING 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/IEEC, 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/IEEC, 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.



500 ENTERPRISE DRIVE SUITE 3A
ROCKY HILL, CT 06067



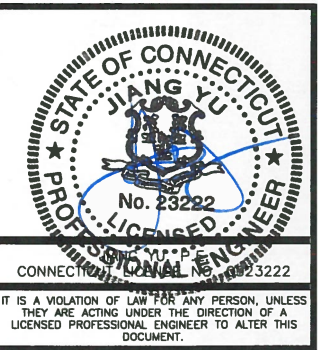
27 NORTHWESTERN DRIVE
SALEM, NH 03079

CT1056
PLYMOUTH

CONSTRUCTION DRAWINGS

0	01/16/17	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



DRAWN BY: SK

REVIEWED BY: DER

CHECKED BY: GHN

PROJECT NUMBER: 50055106

JOB NUMBER: 50065682

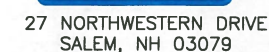
SITE ADDRESS:

297 NORTH STREET
PLYMOUTH, CT 06782
LITCHFIELD COUNTY

SHEET TITLE

GENERAL NOTES

SHEET NUMBER

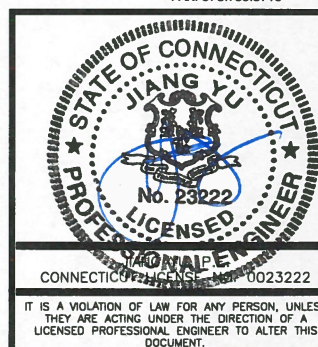


CONSTRUCTION DRAWINGS

O	01/16/17	ISSUED FOR CONSTRUCTION
A	01/03/17	ISSUED FOR REVIEW



600 PARSIPPANY ROAD
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FAX: 973.739.9710



DRAWN BY: SK

REVIEWED BY: _____ DER _____

CHECKED BY: GHN

PROJECT NUMBER:	50055106
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JOB NUMBER:	50065682
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SITE ADDRESS:

297 NORTH STREET
PLYMOUTH, CT 06782
LITCHFIELD COUNTY

SHEET TITLE

COMPOUND PLAN

SHEET NUMBER

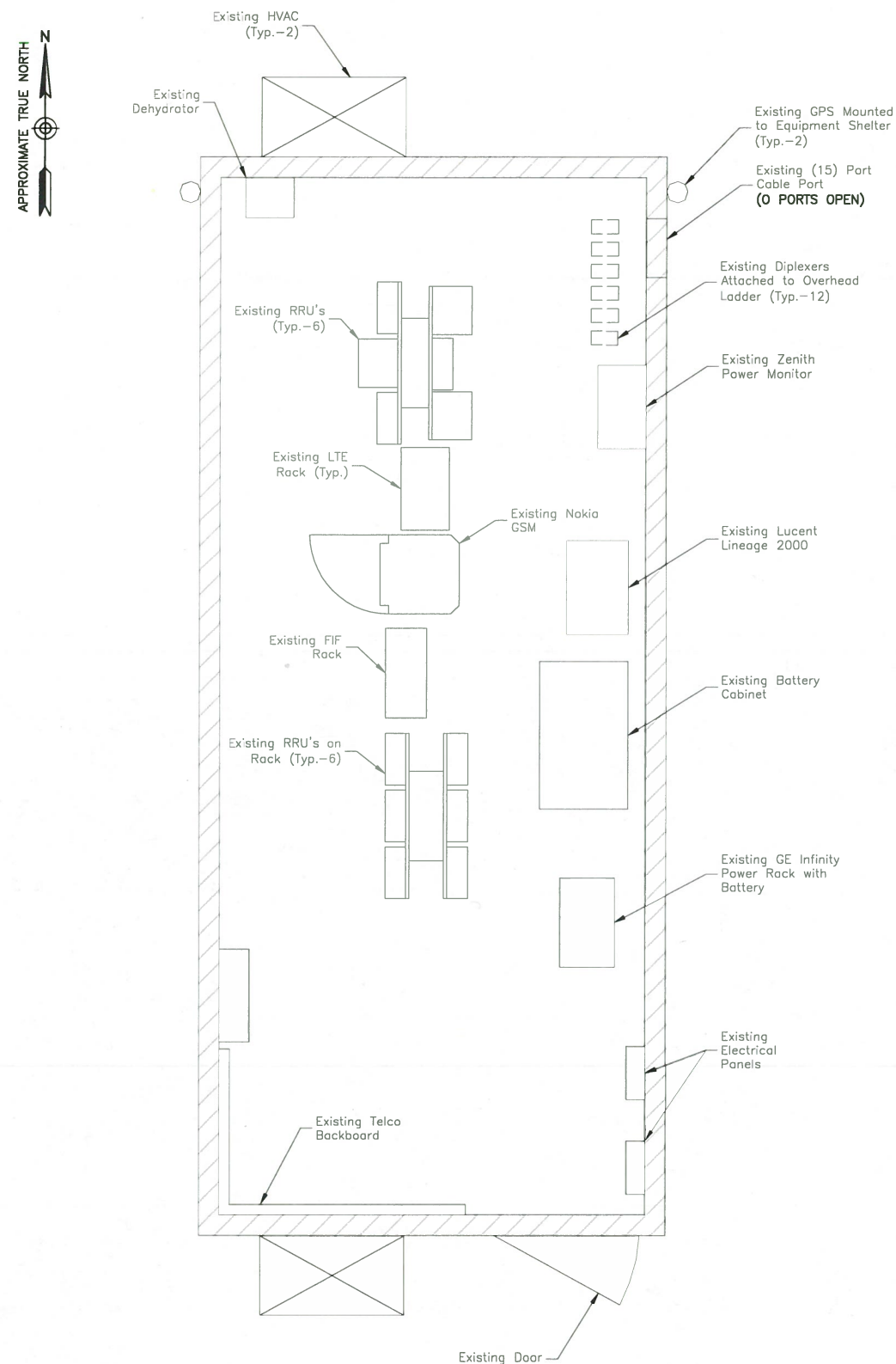
C-1



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

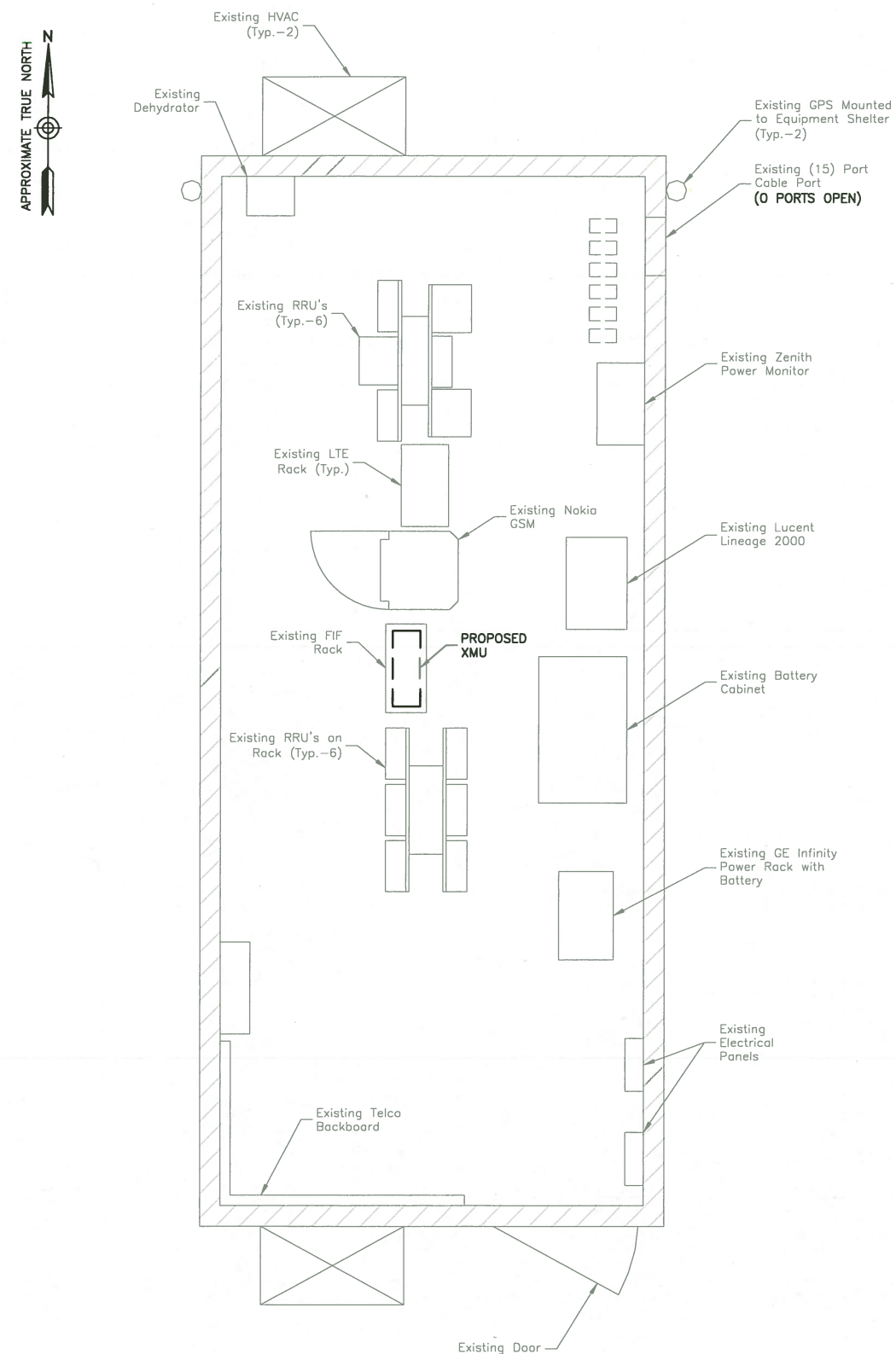
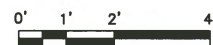
NOTES:

1. NORTH SHOWN AS APPROXIMATE.
2. NOT ALL INFORMATION IS SHOWN FOR CLARITY.
3. ALL PROPOSED EQUIPMENT, INCLUDING ANTENNAS, COAX, SURGE ARRESTORS, TMA'S, RRU'S, ETC., SHALL BE MOUNTED IN ACCORDANCE WITH THE TOWER STRUCTURAL ANALYSIS BY AMERICAN TOWER CORPORATION DATED JANUARY 11, 2017.



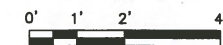
EXISTING SHELTER LAYOUT

SCALE: $1/4"=1'$ FOR $11" \times 17"$
 $1/2"=1'$ FOR $22" \times 34"$



PROPOSED SHELTER LAYOUT

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



500 ENTERPRISE DRIVE SUITE 3A
ROCKY HILL, CT 06067



27 NORTHWESTERN DRIVE
SALEM, NH 03079

**CT1056
PLYMOUTH**

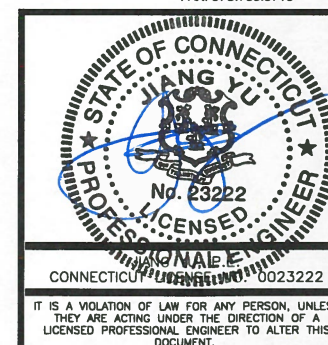
CONSTRUCTION DRAWINGS

0	01/16/17	ISSUED FOR CONSTRUCTION
A	01/03/17	ISSUED FOR REVIEW



Dewberry Engineers Inc.

600 PARSIPPANY ROAD
SUITE 301
PARSIPPANY, NJ 07054
PHONE: 973.739.9400
FAX: 973.739.9710



DRAWN BY: SK

REVIEWED BY: _____ DER

CHECKED BY: GHM

PROJECT NUMBER:	50055106
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JOB NUMBER: 50065682

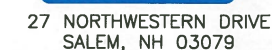
SITE ADDRESS:

297 NORTH STREET
PLYMOUTH, CT 06782
LITCHFIELD COUNTY

SHEET TITLE

EXISTING & PROPOSED SHELTER LAYOUTS

SHEET NUMBER



CONSTRUCTION DRAWINGS

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



REVIEWED BY:	DER
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CHECKED BY: GHN

PROJECT NUMBER:	50055106
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JOB NUMBER: 50065682

SITE ADDRESS:

297 NORTH STREET
PLYMOUTH, CT 06782
LITCHFIELD COUNTY

SHEET TITLE

CONSTRUCTION DETAILS

SHEET NUMBER

C-4

27.2"

7.0"

12.1"

SPECIFICATIONS:
 HEIGHT: 27.2"
 WIDTH: 12.1"
 DEPTH: 7.0"
 WEIGHT: 53.0 LB

ERICSSON RRUS-32 B2

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-32 B2 REMOTE RADIO UNIT

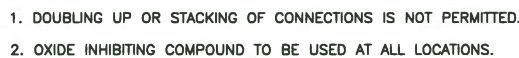
SCALE: N.T.S.

✓

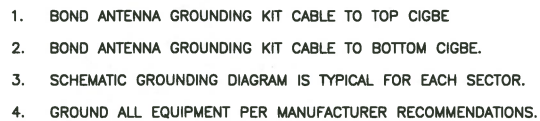
1. THE CONTRACTOR SHALL REVIEW AND INSPECT THE EXISTING FACILITY GROUNDING SYSTEM AND LIGHTNING PROTECTION SYSTEM (AS DESIGNED AND INSTALLED) FOR STRICT COMPLIANCE WITH THE NEC (AS ADOPTED BY THE AHJ), THE SITE-SPECIFIC (UL, LPI, OR NFPA) LIGHTING PROTECTION CODE, AND GENERAL COMPLIANCE WITH TELCORDIA 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 GESS'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-OFF-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.



1



SCALE: N.T.S.



SCALE: N.T.S.





AMERICAN TOWER®
C O R P O R A T I O N

Structural Analysis Report

Structure : 180 ft Monopole
ATC Site Name : Plymouth CT 3, CT
ATC Site Number : 302501
Engineering Number : OAA692457_C3_03
Proposed Carrier : AT&T Mobility
Carrier Site Name : Plymouth
Carrier Site Number : CT1056
Site Location : 297 North Street
Plymouth, CT 06782-2009
41.693083,-73.053700
County : Litchfield
Date : January 11, 2017
Max Usage : 87%
Result : Pass

Prepared By:
John D. Bigham, E.I.
Structural Engineer II

Reviewed By:

COA: PEC.0001553



Table of Contents

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



Introduction

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

Supporting Documents

Tower Drawings	Valmont Drawing #DC0732Z, dated January 30, 1991
Foundation Drawing	SNET Job #3C238, dated April 24, 1990
Geotechnical Report	GEOServices, LLC Project #21-07254, dated December 2, 2008

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 Vasd)/ 120 mph (3-second Gust Vult)
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:	II
Exposure Category:	B
Topographic Category:	1
Crest Height:	0 ft
Spectral Response:	$S_s = 0.19$, $S_1 = 0.06$
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					
180.0	185.0	1	Andrew ABT-DFDM-ADB	Low Profile Platform	(12) 1 1/4" Coax (2) 0.78" 8 AWG 6 (1) 0.39" Fiber Trunk (1) 3" Conduit	AT&T Mobility
		6	Powerwave LGP21901			
		6	Powerwave LGP21401			
		1	Raycap DC6-48-60-18-8F			
		3	Ericsson RRUS A2 Module			
		3	Powerwave 7770.00			
176.0	176.0	2	Motorola PTP 800 ODU	Leg	(4) 3/8" Coax (1) 1/2" Coax	Town Of Thomaston
		1	Radio Waves HPD2-4.7NS			
171.0	171.0	3	RFS APXV18-206517S-C	Flush	(6) 1 5/8" Coax	Metro PCS
150.0	159.0	4	Scala OGT9-840	Side Arms	(4) 3/8" Coax (6) 1 5/8" Coax (1) 1/2" Coax	Connecticut State Police Dept
	152.0	2	Antel WPA-70080-2CF-EDIN-X			
		1	TX RX Systems 422-86A-99575-18R1			
	150.0	1	Bird 432-83H-01-T			
110.0	113.0	1	Lone Star Electronics LS-230	Side Arm	(2) 1/2" Coax (1) 3/8" Coax	Town Of Thomaston
	110.0	2	Motorola PTP 800 ODU			
		1	Andrew VHLP2.6			
102.0	103.0	1	Bird FSA-10-67-DIN	Side Arm	(1) 1/2" Coax	
91.0	91.0	1	Andrew P6F-0-9-N7A	Leg	(1) 7/8" Coax	Connecticut State Police Dept

Equipment to be Removed

Elevation ¹ (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
180.0	185.0	3	CCI OPA-65R-LCUU-H6	-	(3) 0.76" 8 AWG 6	AT&T Mobility
		3	Ericsson RRUS-12 B2			
		3	Ericsson RRUS E2 B29			

Proposed Equipment

Elevation ¹ (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
180.0	185.0	3	Ericsson RRUS 32 B2	Low Profile Platform	-	AT&T Mobility
		3	Ericsson RRUS 11 B12			
		3	Powerwave 7770.00			
		3	CCI HPA-65R-BUU-H6			

¹Mount 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	86%	Pass
Shaft	87%	Pass
Base Plate	29%	Pass
Flanges	61%	Pass

Foundations

Reaction Component	Analysis Reactions	% of Usage
Moment (Kips-Ft)	2,664.1	49%
Axial (Kips)	33.2	31%
Shear (Kips)	23.6	13%

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) (°)
185.0	Ericsson RRUS 32 B2	AT&T Mobility	4.701	2.990
	Ericsson RRUS 11 B12			
	Powerwave 7770.00			
	CCI HPA-65R-BUU-H6			
176.0	Radio Waves HPD2-4.7NS	Town of Thomaston	4.492	2.972
110.0	Andrew VHLP2.6		1.660	1.825
91.0	Andrew P6F-0-9-N7A	Connecticut State Po	1.116	1.456

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



Standard Conditions

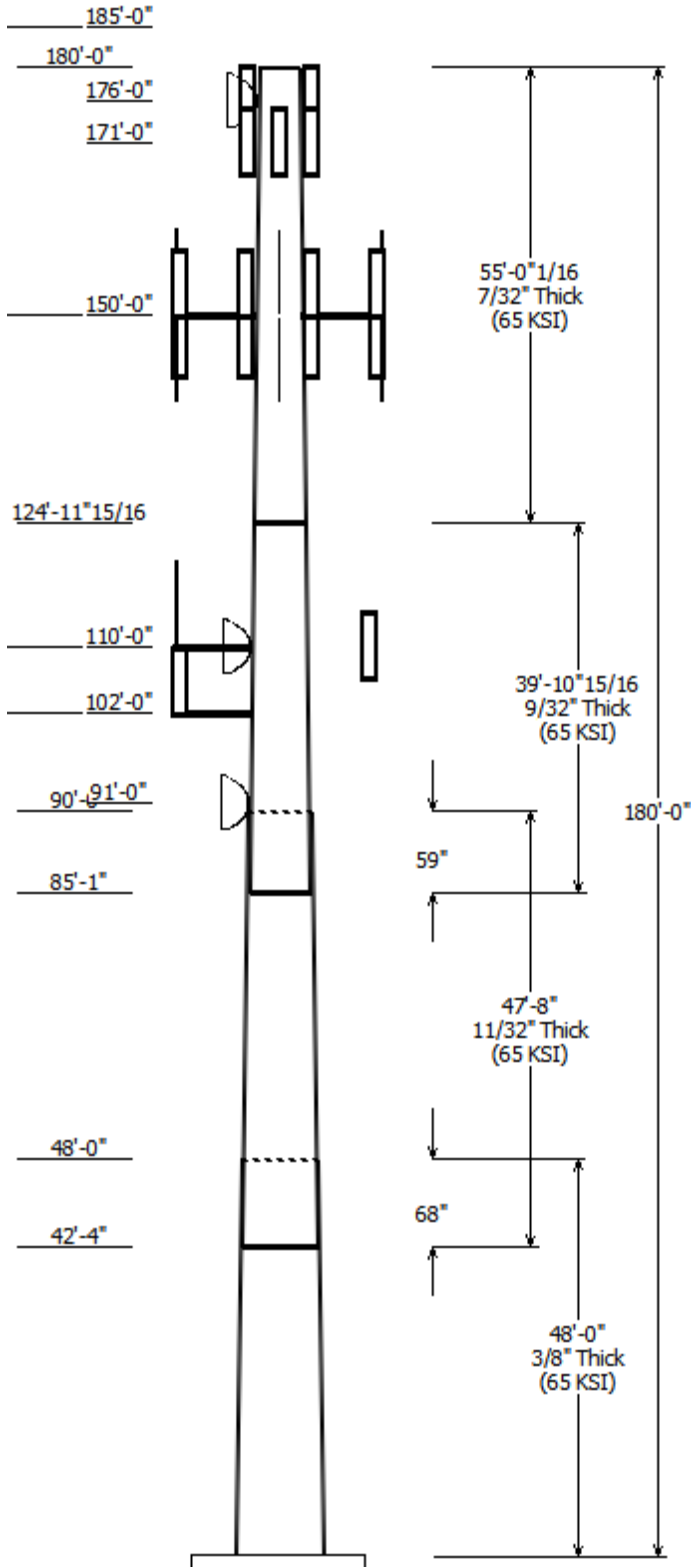
All engineering services are performed on the basis that the information used is current and correct. This information may consist of, but is not necessary limited, to:

- 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 : 302501 Code: ANSI/TIA-222-G
 Description : 180 ft Valmont Monopole
 Client : AT&T Mobility Struct Class : II
 Location : Plymouth CT 3, CT
 Shape : 12 Sides Exposure : B
 Height : 180.00 (ft) Topo : 1
 Base Elev (ft): 0.00
 Taper: 0.17000@in/ft

Sections Properties

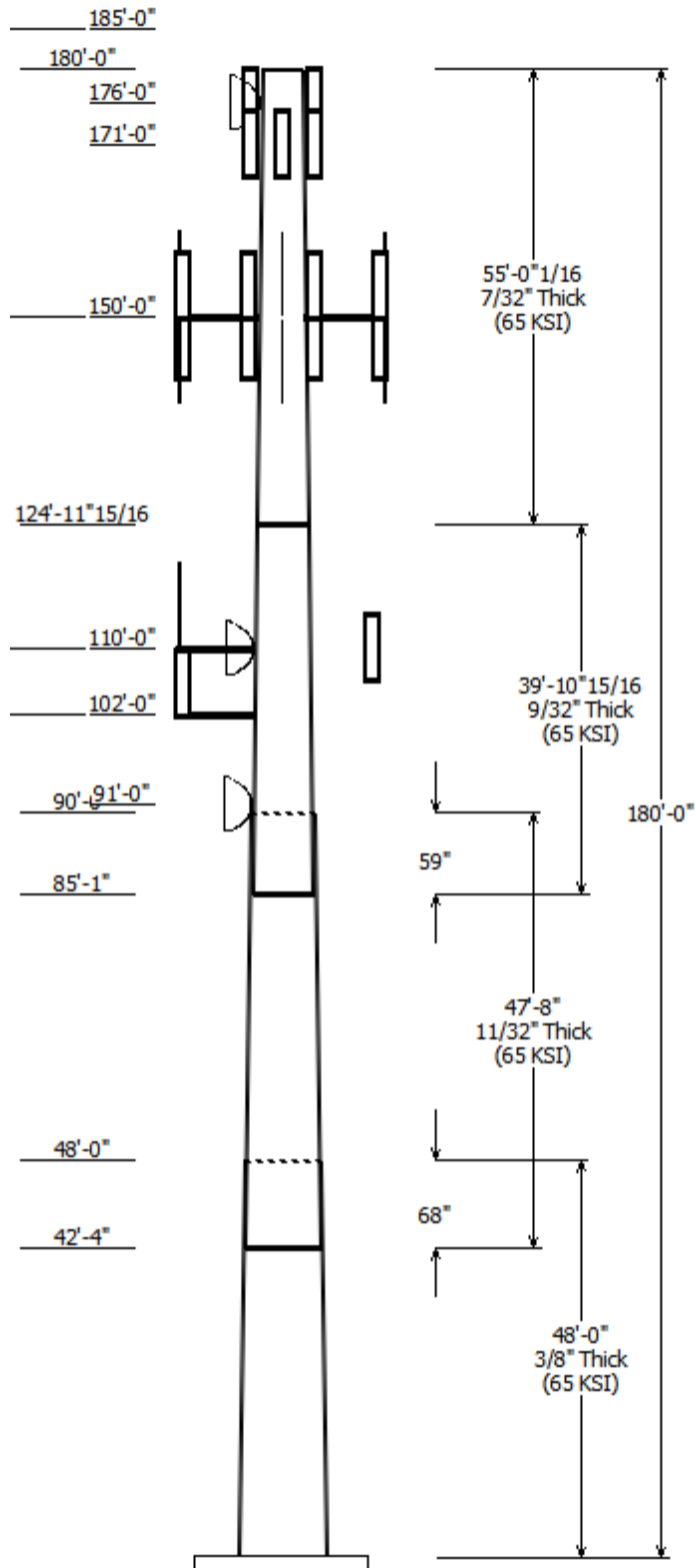
Shaft Section	Length (ft)	Diameter (in)		Thick (in)	Joint Type	Overlap		Steel Grade (ksi)
		Accross Flats				Length (in)	Taper (in/ft)	
		Top	Bottom					
1	48.000	35.84	44.00	0.375		0.000	0.170000	65
2	47.667	29.38	37.49	0.344	Slip Joint	67.990	0.170000	65
3	39.910	24.00	30.78	0.281	Slip Joint	59.000	0.170000	65
4	55.006	14.65	24.00	0.219	Butt Joint	0.000	0.170000	65

Discrete Appurtenance

Attach Elev (ft)	Force Elev (ft)	Qty	Description
185.000	185.000	3	Powerwave 7770.00
185.000	185.000	3	CCI HPA-65R-BUU-H6
185.000	185.000	3	Ericsson RRUS 32 B2
185.000	185.000	3	Ericsson RRUS A2 Module
185.000	185.000	1	Raycap DC6-48-60-18-8F
185.000	185.000	6	Powerwave LGP21901
185.000	185.000	1	Round Low Profile Platform
185.000	185.000	6	Powerwave LGP21401
185.000	185.000	3	Powerwave 7770.00
185.000	185.000	3	Ericsson RRUS 11 B12
185.000	185.000	1	Andrew ABT-DFDM-ADB
176.000	176.000	1	Radio Waves HPD2-4.7NS
176.000	176.000	2	Motorola PTP 800 ODU
171.000	171.000	3	RFS APXV18-206517S-C
150.000	152.000	1	TX RX Systems 422-86A-99575-
150.000	152.000	1	Antel WPA-70080-2CF-EDIN-X
150.000	150.000	1	Bird 432-83H-01-T
150.000	159.000	2	Scala OGT9-840
150.000	148.000	1	Antel WPA-70080-2CF-EDIN-X
150.000	150.000	2	Side Arm
150.000	144.000	2	Scala OGT9-840
110.000	110.000	1	Flat Side Arm
110.000	110.000	2	Motorola PTP 800 ODU
110.000	110.000	1	Andrew VHL2.6
110.000	113.000	1	Lone Star Electronics LS-230
102.000	102.000	1	Flat Side Arm
102.000	103.000	1	Bird FSA-10-67-DIN
91.000	91.000	1	Andrew P6F-0-9-N7A

Linear Appurtenance

Elev (ft)	From	To	Description	Exposed To Wind
7.000	91.000	7/8"	Coax	Yes
7.000	102.0	1/2"	Coax	Yes
7.000	110.0	1/2"	Coax	Yes
7.000	110.0	3/8"	Coax	Yes
7.000	150.0	1 5/8"	Coax	Yes
7.000	150.0	1/2"	Coax	Yes
7.000	150.0	3/8"	Coax	Yes
7.000	171.0	1 5/8"	Coax	Yes



7.000	176.0	1/2" Coax	Yes
7.000	176.0	3/8" Coax	Yes
7.000	185.0	0.39" Fiber Trunk	No
7.000	185.0	0.78" 8 AWG 6	No
7.000	185.0	1 1/4" Coax	No
7.000	185.0	3" Conduit	No

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

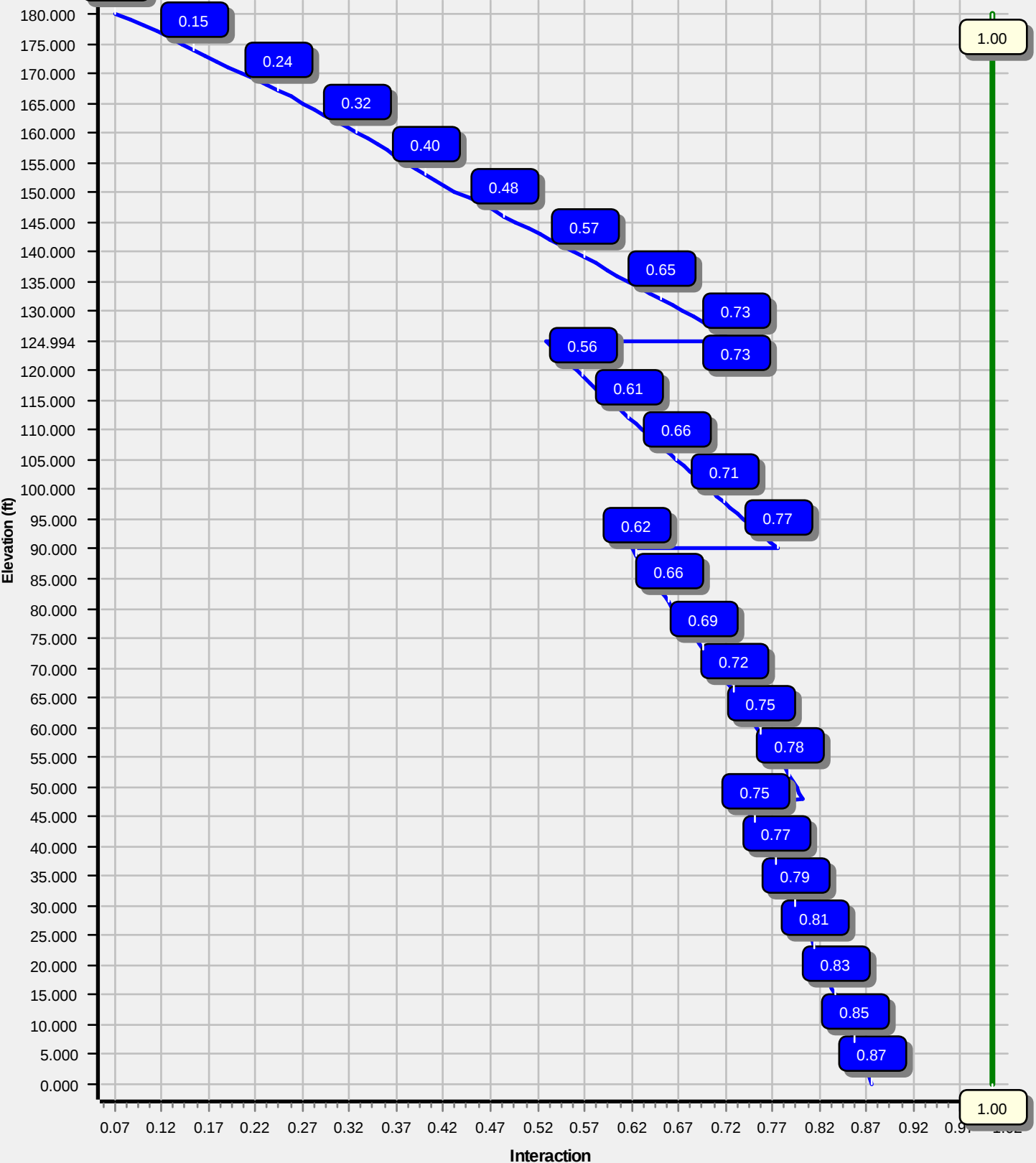
Reactions

Load Case	Moment (kip-ft)	Shear (kip)	Axial (kip)
1.2D + 1.6W	2664.10	23.64	33.17
0.9D + 1.6W	2440.62	21.77	24.88
1.2D + 1.0Di + 1.0Wi	537.66	3.86	72.27
(1.2 + 0.2Sds) * DL + E ELFM	97.40	0.76	31.09
(1.2 + 0.2Sds) * DL + E EMAM	70.40	0.85	31.09
(0.9 - 0.2Sds) * DL + E ELFM	95.85	0.76	21.59
(0.9 - 0.2Sds) * DL + E EMAM	69.33	0.85	21.59
1.0D + 1.0W	641.46	5.66	27.65

Dish Deflections

Load Case	Attach Elev (ft)	Deflection (in)	Rotation (deg)
1.0D + 1.0W	91.00	13.387	1.456
1.0D + 1.0W	110.00	19.920	1.825
1.0D + 1.0W	176.00	53.909	2.972

Load Case : 1.2D + 1.6W
Max Ratio 87.17% at 0.0 ft



Site Number: 302501	Code: ANSI/TIA-222-G	© 2007 - 2017 by ATC IP LLC. All rights reserved.
Site Name: Plymouth CT 3, CT	Engineering Number: OAA692457_C3_03	1/11/2017 3:56:56 PM
Customer: AT&T Mobility		

Analysis Parameters

Location:	Litchfield County, CT		
Code:	ANSI/TIA-222-G	Height (ft):	180
Shape:	12 Sides	Base Diameter (in):	44.00
Pole Type:	Taper	Top Diameter (in):	14.65
Pole Manufacturer:	Valmont	Taper (in/ft) :	0.170

Ice & Wind Parameters

Structure Class:	II	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):	3.31		
T_L (sec):	6	p :	1.3
S_s :	0.185	S_1 :	0.064
F_a :	1.600	F_v :	2.400
S_{ds} :	0.197	S_{d1} :	0.102
		C_s :	0.030
		C_s Max:	0.030
		C_s Min:	0.030

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 + 0.2S _{ds}) * DL + E ELFM	Seismic Equivalent Lateral Forces Method
(1.2 + 0.2S _{ds}) * DL + E EMAM	Seismic Equivalent Modal Analysis Method
(0.9 - 0.2S _{ds}) * DL + E ELFM	Seismic (Reduced DL) Equivalent Lateral Forces Method
(0.9 - 0.2S _{ds}) * DL + E EMAM	Seismic (Reduced DL) Equivalent Modal Analysis Method
1.0D + 1.0W	Serviceability 60 mph

Site Number: 302501

Code: ANSI/TIA-222-G

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Site Name: Plymouth CT 3, CT

Engineering Number: OAA692457_C3_03

1/11/2017 3:56:56 PM

Customer: AT&T Mobility

Shaft Section Properties

Slip							Bottom				Top								
Sect Info	Length (ft)	Thick (in)	Fy (ksi)	Joint Type	Joint Len (in)	Weight (lb)	Dia (in)	Elev (ft)	Area (in ²)	Ix (in ⁴)	W/t Ratio	D/t Ratio	Dia (in)	Elev (ft)	Area (in ²)	Ix (in ⁴)	W/t Ratio	D/t Ratio	Taper (in/ft)
1-12	48.000	0.3750	65		0.00	7,799	44.00	0.00	52.68	12796.2	28.76	117.33	35.84	48.00	42.82	6875.0	22.93	95.57	0.170000
2-12	47.667	0.3438	65	Slip	67.99	5,942	37.49	42.33	41.12	7241.9	26.54	109.06	29.38	90.00	32.15	3461.3	20.23	85.49	0.170000
3-12	39.910	0.2813	65	Slip	59.00	3,334	30.78	85.08	27.63	3281.1	26.65	109.46	24.00	124.99	21.48	1542.6	20.19	85.34	0.170000
4-12	55.006	0.2188	65	Butt	0.00	2,519	24.00	124.99	16.75	1209.3	26.72	109.72	14.65	180.00	10.16	270.2	15.27	66.97	0.170000
Shaft Weight						19,594													

Discrete Appurtenance Properties

Attach Elev (ft)	Description	Qty	Weight (lb)	No Ice EPAA (sf)	Orientation Factor	Weight (lb)	Ice EPAA (sf)	Orientation Factor	Distance From Face (ft)	Vert Ecc (ft)
185.00	Andrew ABT-DFDM-ADB	1	1.10	0.050	0.50	11.31	0.208	0.50	0.000	0.000
185.00	CCI HPA-65R-BUU-H6	3	51.00	9.660	0.69	469.62	15.220	0.69	0.000	0.000
185.00	Ericsson RRUS 11 B12	3	50.70	2.790	0.50	178.00	3.742	0.50	0.000	0.000
185.00	Ericsson RRUS 32 B2	3	53.00	2.740	0.50	183.06	3.762	0.50	0.000	0.000
185.00	Ericsson RRUS A2 Module	3	22.00	2.060	0.50	92.16	2.350	0.50	0.000	0.000
185.00	Powerwave 7770.00	3	35.00	5.510	0.65	235.26	7.048	0.65	0.000	0.000
185.00	Powerwave 7770.00	3	35.00	5.510	0.65	235.26	7.048	0.65	0.000	0.000
185.00	Powerwave LGP21401	6	14.10	1.100	0.33	66.37	1.757	0.33	0.000	0.000
185.00	Powerwave LGP21901	6	5.50	0.230	0.33	26.70	0.539	0.33	0.000	0.000
185.00	Raycap DC6-48-60-18-8F	1	31.80	1.280	1.00	168.37	3.115	1.00	0.000	0.000
185.00	Round Low Profile Platform	1	1500.00	21.700	1.00	2,381.31	47.816	1.00	0.000	0.000
176.00	Motorola PTP 800 ODU	2	10.10	0.920	0.50	59.25	1.503	0.50	0.000	0.000
176.00	Radio Waves HPD2-4.7NS	1	27.00	3.960	0.63	139.81	5.551	0.63	0.000	0.000
171.00	RFS APXV18-206517S-C	3	26.40	5.170	0.80	202.16	6.876	0.80	0.000	0.000
150.00	Antel WPA-70080-2CF-EDIN-X	1	5.00	2.220	0.75	103.37	3.114	0.75	0.000	2.000
150.00	Antel WPA-70080-2CF-EDIN-X	1	5.00	2.220	0.50	103.37	3.114	0.50	0.000	-2.000
150.00	Bird 432-83H-01-T	1	25.00	1.400	0.50	104.32	2.098	0.50	0.000	0.000
150.00	Scala OGT9-840	2	18.50	2.270	1.00	203.11	7.270	1.00	0.000	9.000
150.00	Scala OGT9-840	2	18.50	2.270	1.00	203.11	7.270	1.00	0.000	-6.000
150.00	Side Arm	2	150.00	5.200	0.85	247.70	8.829	0.85	0.000	0.000
150.00	TX RX Systems 422-86A-	1	40.00	2.670	0.50	153.53	3.586	0.50	0.000	2.000
110.00	Andrew VHLP2.6	1	48.00	8.420	0.49	273.00	10.622	0.49	0.000	0.000
110.00	Flat Side Arm	1	150.00	6.300	1.00	244.70	9.482	1.00	0.000	0.000
110.00	Lone Star Electronics LS-230	1	11.00	1.610	1.00	129.61	3.906	1.00	0.000	3.000
110.00	Motorola PTP 800 ODU	2	10.10	0.920	0.50	56.24	1.485	0.50	0.000	0.000
102.00	Bird FSA-10-67-DIN	1	9.00	1.410	1.00	178.12	4.969	1.00	0.000	1.000
102.00	Flat Side Arm	1	150.00	6.300	1.00	243.99	9.458	1.00	0.000	0.000
91.00	Andrew P6F-0-9-N7A	1	134.00	7.730	1.00	869.67	11.307	1.00	0.000	0.000
Totals		57	3488.20			11,988.25			Number of Loadings : 28	

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
7.00	185.00	1	0.39" Fiber Trunk	0.39	0.06	N	0.00	N	AT&T Mobility
7.00	185.00	2	0.78" 8 AWG 6	0.78	0.59	N	0.00	N	AT&T Mobility
7.00	185.00	12	1 1/4" Coax	1.55	0.63	N	0.00	N	AT&T Mobility
7.00	185.00	1	3" Conduit	3.50	7.58	N	0.00	N	AT&T Mobility
7.00	176.00	1	1/2" Coax	0.63	0.15	N	0.63	Y	Town of Thomaston
7.00	176.00	4	3/8" Coax	0.44	0.08	N	0.63	Y	Town of Thomaston
7.00	171.00	6	1 5/8" Coax	1.98	0.82	N	1.98	Y	Metro PCS

Site Number: 302501

Code: ANSI/TIA-222-G

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Site Name: Plymouth CT 3, CT

Engineering Number:OAA692457_C3_03

1/11/2017 3:56:56 PM

Customer: AT&T Mobility

7.00	150.00	6 1 5/8" Coax	1.98	0.82	N	1.98	Y	Connecticut State Police Dept
7.00	150.00	1 1/2" Coax	0.63	0.15	N	0.00	Y	Connecticut State Police Dept
7.00	150.00	4 3/8" Coax	0.44	0.08	N	0.00	Y	Connecticut State Police Dept
7.00	110.00	2 1/2" Coax	0.63	0.15	N	0.00	Y	Town of Thomaston
7.00	110.00	1 3/8" Coax	0.44	0.08	N	0.00	Y	Town of Thomaston
7.00	102.00	1 1/2" Coax	0.63	0.15	N	0.00	Y	Town of Thomaston
7.00	91.00	1 7/8" Coax	1.09	0.33	N	0.00	Y	Connecticut State Police Dept

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Site Name: Plymouth CT 3, CT

Engineering Number: OAA692457_C3_03

1/11/2017 3:56:56 PM

Customer: AT&T Mobility

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)
0.00		0.3750	44.000	52.677	12,796.2	28.76	117.33	73.3	561.8	0.0	0.0
1.00		0.3750	43.830	52.472	12,647.1	28.64	116.88	73.5	557.4	0.0	178.9
2.00		0.3750	43.660	52.267	12,499.3	28.52	116.43	73.6	553.1	0.0	178.2
3.00		0.3750	43.490	52.061	12,352.6	28.40	115.97	73.7	548.7	0.0	177.5
4.00		0.3750	43.320	51.856	12,207.1	28.27	115.52	73.9	544.4	0.0	176.8
5.00		0.3750	43.150	51.651	12,062.7	28.15	115.07	74.0	540.1	0.0	176.1
6.00		0.3750	42.980	51.446	11,919.4	28.03	114.61	74.1	535.7	0.0	175.4
7.00		0.3750	42.810	51.240	11,777.3	27.91	114.16	74.3	531.5	0.0	174.7
8.00		0.3750	42.640	51.035	11,636.3	27.79	113.71	74.4	527.2	0.0	174.0
9.00		0.3750	42.470	50.830	11,496.5	27.67	113.25	74.5	522.9	0.0	173.3
10.00		0.3750	42.300	50.624	11,357.7	27.55	112.80	74.7	518.7	0.0	172.6
11.00		0.3750	42.130	50.419	11,220.1	27.42	112.35	74.8	514.5	0.0	171.9
12.00		0.3750	41.960	50.214	11,083.7	27.30	111.89	74.9	510.3	0.0	171.2
13.00		0.3750	41.790	50.009	10,948.3	27.18	111.44	75.1	506.1	0.0	170.5
14.00		0.3750	41.620	49.803	10,814.0	27.06	110.99	75.2	501.9	0.0	169.8
15.00		0.3750	41.450	49.598	10,680.8	26.94	110.53	75.3	497.8	0.0	169.1
16.00		0.3750	41.280	49.393	10,548.8	26.82	110.08	75.5	493.7	0.0	168.4
17.00		0.3750	41.110	49.188	10,417.8	26.69	109.63	75.6	489.6	0.0	167.7
18.00		0.3750	40.940	48.982	10,287.9	26.57	109.17	75.7	485.5	0.0	167.0
19.00		0.3750	40.770	48.777	10,159.1	26.45	108.72	75.9	481.4	0.0	166.3
20.00		0.3750	40.600	48.572	10,031.4	26.33	108.27	76.0	477.3	0.0	165.6
21.00		0.3750	40.430	48.366	9,904.7	26.21	107.81	76.1	473.3	0.0	164.9
22.00		0.3750	40.260	48.161	9,779.2	26.09	107.36	76.3	469.2	0.0	164.2
23.00		0.3750	40.090	47.956	9,654.6	25.97	106.91	76.4	465.2	0.0	163.5
24.00		0.3750	39.920	47.751	9,531.2	25.84	106.45	76.5	461.2	0.0	162.8
25.00		0.3750	39.750	47.545	9,408.8	25.72	106.00	76.7	457.3	0.0	162.1
26.00		0.3750	39.580	47.340	9,287.5	25.60	105.55	76.8	453.3	0.0	161.4
27.00		0.3750	39.410	47.135	9,167.2	25.48	105.09	76.9	449.4	0.0	160.7
28.00		0.3750	39.240	46.929	9,047.9	25.36	104.64	77.1	445.4	0.0	160.0
29.00		0.3750	39.070	46.724	8,929.7	25.24	104.19	77.2	441.5	0.0	159.3
30.00		0.3750	38.900	46.519	8,812.5	25.12	103.73	77.3	437.6	0.0	158.6
31.00		0.3750	38.730	46.314	8,696.4	24.99	103.28	77.5	433.8	0.0	157.9
32.00		0.3750	38.560	46.108	8,581.3	24.87	102.83	77.6	429.9	0.0	157.2
33.00		0.3750	38.390	45.903	8,467.2	24.75	102.37	77.7	426.1	0.0	156.5
34.00		0.3750	38.220	45.698	8,354.1	24.63	101.92	77.9	422.3	0.0	155.8
35.00		0.3750	38.050	45.493	8,242.0	24.51	101.47	78.0	418.5	0.0	155.2
36.00		0.3750	37.880	45.287	8,130.9	24.39	101.01	78.1	414.7	0.0	154.5
37.00		0.3750	37.710	45.082	8,020.9	24.27	100.56	78.2	410.9	0.0	153.8
38.00		0.3750	37.540	44.877	7,911.8	24.14	100.11	78.4	407.2	0.0	153.1
39.00		0.3750	37.370	44.671	7,803.7	24.02	99.65	78.5	403.4	0.0	152.4
40.00		0.3750	37.200	44.466	7,696.6	23.90	99.20	78.6	399.7	0.0	151.7
41.00		0.3750	37.030	44.261	7,590.5	23.78	98.75	78.8	396.0	0.0	151.0
42.00		0.3750	36.860	44.056	7,485.4	23.66	98.29	78.9	392.3	0.0	150.3
42.33	Bot - Section 2	0.3750	36.803	43.987	7,450.5	23.62	98.14	79.0	391.1	0.0	50.1
43.00		0.3750	36.690	43.850	7,381.3	23.54	97.84	79.0	388.6	0.0	192.5
44.00		0.3750	36.520	43.645	7,278.1	23.42	97.39	79.2	385.0	0.0	288.0
45.00		0.3750	36.350	43.440	7,175.9	23.29	96.93	79.3	381.4	0.0	286.7
46.00		0.3750	36.180	43.235	7,074.6	23.17	96.48	79.4	377.8	0.0	285.4
47.00		0.3750	36.010	43.029	6,974.3	23.05	96.03	79.6	374.2	0.0	284.0
48.00	Top - Section 1	0.3438	36.527	40.051	6,693.1	25.79	106.26	76.6	354.0	0.0	282.7
49.00		0.3438	36.357	39.863	6,599.2	25.66	105.77	76.7	350.6	0.0	136.0
50.00		0.3438	36.187	39.675	6,506.1	25.53	105.27	76.9	347.3	0.0	135.3
51.00		0.3438	36.017	39.486	6,414.0	25.40	104.78	77.0	344.0	0.0	134.7
52.00		0.3438	35.847	39.298	6,322.8	25.26	104.28	77.2	340.7	0.0	134.0
53.00		0.3438	35.677	39.110	6,232.4	25.13	103.79	77.3	337.5	0.0	133.4
54.00		0.3438	35.507	38.922	6,142.8	25.00	103.29	77.5	334.2	0.0	132.8
55.00		0.3438	35.337	38.734	6,054.2	24.87	102.80	77.6	331.0	0.0	132.1
56.00		0.3438	35.167	38.546	5,966.4	24.73	102.31	77.7	327.8	0.0	131.5

Site Number: 302501

Code: ANSI/TIA-222-G

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Site Name: Plymouth CT 3, CT

Engineering Number: OAA692457_C3_03

1/11/2017 3:56:56 PM

Customer: AT&T Mobility

57.00		0.3438	34.997	38.357	5,879.4	24.60	101.81	77.9	324.5	0.0	130.8
58.00		0.3438	34.827	38.169	5,793.3	24.47	101.32	78.0	321.4	0.0	130.2
59.00		0.3438	34.657	37.981	5,708.1	24.34	100.82	78.2	318.2	0.0	129.6
60.00		0.3438	34.487	37.793	5,623.6	24.20	100.33	78.3	315.0	0.0	128.9
61.00		0.3438	34.317	37.605	5,540.1	24.07	99.83	78.5	311.9	0.0	128.3
62.00		0.3438	34.147	37.416	5,457.3	23.94	99.34	78.6	308.7	0.0	127.6
63.00		0.3438	33.977	37.228	5,375.4	23.81	98.84	78.8	305.6	0.0	127.0
64.00		0.3438	33.807	37.040	5,294.3	23.67	98.35	78.9	302.5	0.0	126.4
65.00		0.3438	33.637	36.852	5,214.0	23.54	97.85	79.0	299.4	0.0	125.7
66.00		0.3438	33.467	36.664	5,134.5	23.41	97.36	79.2	296.4	0.0	125.1
67.00		0.3438	33.297	36.476	5,055.9	23.28	96.87	79.3	293.3	0.0	124.4
68.00		0.3438	33.127	36.287	4,978.0	23.14	96.37	79.5	290.3	0.0	123.8
69.00		0.3438	32.957	36.099	4,901.0	23.01	95.88	79.6	287.3	0.0	123.2
70.00		0.3438	32.787	35.911	4,824.8	22.88	95.38	79.8	284.3	0.0	122.5
71.00		0.3438	32.617	35.723	4,749.3	22.75	94.89	79.9	281.3	0.0	121.9
72.00		0.3438	32.447	35.535	4,674.7	22.61	94.39	80.1	278.3	0.0	121.2
73.00		0.3438	32.277	35.347	4,600.8	22.48	93.90	80.2	275.4	0.0	120.6
74.00		0.3438	32.107	35.158	4,527.7	22.35	93.40	80.3	272.4	0.0	120.0
75.00		0.3438	31.937	34.970	4,455.4	22.22	92.91	80.5	269.5	0.0	119.3
76.00		0.3438	31.767	34.782	4,383.9	22.08	92.41	80.6	266.6	0.0	118.7
77.00		0.3438	31.597	34.594	4,313.1	21.95	91.92	80.8	263.7	0.0	118.0
78.00		0.3438	31.427	34.406	4,243.1	21.82	91.43	80.9	260.8	0.0	117.4
79.00		0.3438	31.257	34.218	4,173.9	21.69	90.93	81.1	258.0	0.0	116.8
80.00		0.3438	31.087	34.029	4,105.4	21.55	90.44	81.2	255.1	0.0	116.1
81.00		0.3438	30.917	33.841	4,037.7	21.42	89.94	81.4	252.3	0.0	115.5
82.00		0.3438	30.747	33.653	3,970.7	21.29	89.45	81.5	249.5	0.0	114.8
83.00		0.3438	30.577	33.465	3,904.4	21.16	88.95	81.6	246.7	0.0	114.2
84.00		0.3438	30.407	33.277	3,838.9	21.02	88.46	81.8	243.9	0.0	113.6
85.00		0.3438	30.237	33.089	3,774.2	20.89	87.96	81.9	241.1	0.0	112.9
85.08	Bot - Section 3	0.3438	30.223	33.073	3,768.8	20.88	87.92	81.9	240.9	0.0	9.5
86.00		0.3438	30.067	32.900	3,710.2	20.76	87.47	81.9	238.4	0.0	188.7
87.00		0.3438	29.897	32.712	3,646.9	20.63	86.97	81.9	235.6	0.0	204.9
88.00		0.3438	29.727	32.524	3,584.3	20.49	86.48	81.9	232.9	0.0	203.7
89.00		0.3438	29.557	32.336	3,522.4	20.36	85.99	81.9	230.2	0.0	202.6
90.00		0.3438	29.387	32.148	3,461.3	20.23	85.49	81.9	227.5	0.0	201.4
90.00	Top - Section 2	0.2813	29.950	26.869	3,018.7	25.85	106.49	76.5	194.7	0.0	0.2
91.00		0.2813	29.780	26.715	2,967.2	25.69	105.88	76.7	192.5	0.0	91.1
92.00		0.2813	29.610	26.561	2,916.2	25.53	105.28	76.9	190.3	0.0	90.6
93.00		0.2813	29.440	26.407	2,865.8	25.37	104.68	77.0	188.1	0.0	90.1
94.00		0.2813	29.270	26.253	2,815.9	25.21	104.07	77.2	185.9	0.0	89.6
95.00		0.2813	29.100	26.099	2,766.7	25.04	103.47	77.4	183.7	0.0	89.1
96.00		0.2813	28.930	25.945	2,718.0	24.88	102.86	77.6	181.5	0.0	88.5
97.00		0.2813	28.760	25.791	2,669.9	24.72	102.26	77.8	179.3	0.0	88.0
98.00		0.2813	28.590	25.637	2,622.4	24.56	101.65	77.9	177.2	0.0	87.5
99.00		0.2813	28.420	25.483	2,575.4	24.40	101.05	78.1	175.1	0.0	87.0
100.0		0.2813	28.250	25.329	2,529.0	24.23	100.44	78.3	172.9	0.0	86.5
101.0		0.2813	28.080	25.175	2,483.2	24.07	99.84	78.5	170.8	0.0	85.9
102.0		0.2813	27.910	25.021	2,437.9	23.91	99.24	78.6	168.7	0.0	85.4
103.0		0.2813	27.740	24.867	2,393.2	23.75	98.63	78.8	166.7	0.0	84.9
104.0		0.2813	27.570	24.713	2,349.0	23.59	98.03	79.0	164.6	0.0	84.4
105.0		0.2813	27.400	24.559	2,305.4	23.42	97.42	79.2	162.5	0.0	83.8
106.0		0.2813	27.230	24.405	2,262.3	23.26	96.82	79.3	160.5	0.0	83.3
107.0		0.2813	27.060	24.251	2,219.7	23.10	96.21	79.5	158.5	0.0	82.8
108.0		0.2813	26.890	24.098	2,177.7	22.94	95.61	79.7	156.5	0.0	82.3
109.0		0.2813	26.720	23.944	2,136.3	22.78	95.00	79.9	154.5	0.0	81.7
110.0		0.2813	26.550	23.790	2,095.3	22.61	94.40	80.0	152.5	0.0	81.2
111.0		0.2813	26.380	23.636	2,054.9	22.45	93.80	80.2	150.5	0.0	80.7
112.0		0.2813	26.210	23.482	2,015.0	22.29	93.19	80.4	148.5	0.0	80.2
113.0		0.2813	26.040	23.328	1,975.6	22.13	92.59	80.6	146.6	0.0	79.6
114.0		0.2813	25.870	23.174	1,936.8	21.97	91.98	80.8	144.6	0.0	79.1
115.0		0.2813	25.700	23.020	1,898.4	21.81	91.38	80.9	142.7	0.0	78.6
116.0		0.2813	25.530	22.866	1,860.6	21.64	90.77	81.1	140.8	0.0	78.1
117.0		0.2813	25.360	22.712	1,823.3	21.48	90.17	81.3	138.9	0.0	77.5
118.0		0.2813	25.190	22.558	1,786.4	21.32	89.56	81.5	137.0	0.0	77.0

119.0		0.2813	25.020	22.404	1,750.1	21.16	88.96	81.6	135.1	0.0	76.5
120.0		0.2813	24.850	22.250	1,714.3	21.00	88.36	81.8	133.3	0.0	76.0
121.0		0.2813	24.680	22.096	1,678.9	20.83	87.75	81.9	131.4	0.0	75.4
122.0		0.2813	24.510	21.942	1,644.1	20.67	87.15	81.9	129.6	0.0	74.9
123.0		0.2813	24.340	21.788	1,609.7	20.51	86.54	81.9	127.8	0.0	74.4
124.0		0.2813	24.170	21.634	1,575.8	20.35	85.94	81.9	126.0	0.0	73.9
124.9	Top - Section 3	0.2813	24.001	21.481	1,542.6	20.19	85.34	81.9	124.2	0.0	72.9
124.9	Bot - Section 4	0.2188	24.001	16.752	1,209.3	26.72	109.72	75.6	97.3	0.0	
125.0		0.2188	24.000	16.751	1,209.2	26.72	109.71	75.6	97.3	0.0	0.3
126.0		0.2188	23.830	16.631	1,183.4	26.51	108.94	75.8	95.9	0.0	56.8
127.0		0.2188	23.660	16.511	1,158.1	26.30	108.16	76.0	94.6	0.0	56.4
128.0		0.2188	23.490	16.392	1,133.0	26.09	107.38	76.3	93.2	0.0	56.0
129.0		0.2188	23.320	16.272	1,108.4	25.89	106.61	76.5	91.8	0.0	55.6
130.0		0.2188	23.150	16.152	1,084.1	25.68	105.83	76.7	90.5	0.0	55.2
131.0		0.2188	22.980	16.032	1,060.2	25.47	105.05	76.9	89.1	0.0	54.8
132.0		0.2188	22.810	15.913	1,036.6	25.26	104.27	77.2	87.8	0.0	54.4
133.0		0.2188	22.640	15.793	1,013.4	25.05	103.50	77.4	86.5	0.0	53.9
134.0		0.2188	22.470	15.673	990.5	24.84	102.72	77.6	85.2	0.0	53.5
135.0		0.2188	22.300	15.553	968.0	24.64	101.94	77.8	83.9	0.0	53.1
136.0		0.2188	22.130	15.434	945.8	24.43	101.17	78.1	82.6	0.0	52.7
137.0		0.2188	21.960	15.314	923.9	24.22	100.39	78.3	81.3	0.0	52.3
138.0		0.2188	21.790	15.194	902.4	24.01	99.61	78.5	80.0	0.0	51.9
139.0		0.2188	21.620	15.074	881.3	23.80	98.83	78.8	78.7	0.0	51.5
140.0		0.2188	21.450	14.955	860.4	23.59	98.06	79.0	77.5	0.0	51.1
141.0		0.2188	21.280	14.835	839.9	23.39	97.28	79.2	76.3	0.0	50.7
142.0		0.2188	21.110	14.715	819.7	23.18	96.50	79.4	75.0	0.0	50.3
143.0		0.2188	20.940	14.595	799.9	22.97	95.73	79.7	73.8	0.0	49.9
144.0		0.2188	20.770	14.476	780.4	22.76	94.95	79.9	72.6	0.0	49.5
145.0		0.2188	20.600	14.356	761.2	22.55	94.17	80.1	71.4	0.0	49.1
146.0		0.2188	20.430	14.236	742.3	22.35	93.39	80.3	70.2	0.0	48.6
147.0		0.2188	20.260	14.117	723.7	22.14	92.62	80.6	69.0	0.0	48.2
148.0		0.2188	20.090	13.997	705.4	21.93	91.84	80.8	67.8	0.0	47.8
149.0		0.2188	19.920	13.877	687.5	21.72	91.06	81.0	66.7	0.0	47.4
150.0		0.2188	19.750	13.757	669.8	21.51	90.29	81.3	65.5	0.0	47.0
151.0		0.2188	19.580	13.638	652.5	21.30	89.51	81.5	64.4	0.0	46.6
152.0		0.2188	19.410	13.518	635.5	21.10	88.73	81.7	63.2	0.0	46.2
153.0		0.2188	19.240	13.398	618.7	20.89	87.95	81.9	62.1	0.0	45.8
154.0		0.2188	19.070	13.278	602.3	20.68	87.18	81.9	61.0	0.0	45.4
155.0		0.2188	18.900	13.159	586.1	20.47	86.40	81.9	59.9	0.0	45.0
156.0		0.2188	18.730	13.039	570.3	20.26	85.62	81.9	58.8	0.0	44.6
157.0		0.2188	18.560	12.919	554.7	20.05	84.85	81.9	57.7	0.0	44.2
158.0		0.2188	18.390	12.799	539.4	19.85	84.07	81.9	56.7	0.0	43.8
159.0		0.2188	18.220	12.680	524.4	19.64	83.29	81.9	55.6	0.0	43.3
160.0		0.2188	18.050	12.560	509.7	19.43	82.51	81.9	54.6	0.0	42.9
161.0		0.2188	17.880	12.440	495.3	19.22	81.74	81.9	53.5	0.0	42.5
162.0		0.2188	17.710	12.320	481.1	19.01	80.96	81.9	52.5	0.0	42.1
163.0		0.2188	17.540	12.201	467.2	18.81	80.18	81.9	51.5	0.0	41.7
164.0		0.2188	17.370	12.081	453.6	18.60	79.41	81.9	50.4	0.0	41.3
165.0		0.2188	17.200	11.961	440.2	18.39	78.63	81.9	49.4	0.0	40.9
166.0		0.2188	17.030	11.841	427.2	18.18	77.85	81.9	48.5	0.0	40.5
167.0		0.2188	16.860	11.722	414.3	17.97	77.07	81.9	47.5	0.0	40.1
168.0		0.2188	16.690	11.602	401.8	17.76	76.30	81.9	46.5	0.0	39.7
169.0		0.2188	16.520	11.482	389.4	17.56	75.52	81.9	45.5	0.0	39.3
170.0		0.2188	16.350	11.362	377.4	17.35	74.74	81.9	44.6	0.0	38.9
171.0		0.2188	16.180	11.243	365.6	17.14	73.97	81.9	43.6	0.0	38.5
172.0		0.2188	16.010	11.123	354.0	16.93	73.19	81.9	42.7	0.0	38.1
173.0		0.2188	15.840	11.003	342.7	16.72	72.41	81.9	41.8	0.0	37.6
174.0		0.2188	15.670	10.883	331.6	16.51	71.63	81.9	40.9	0.0	37.2
175.0		0.2188	15.500	10.764	320.8	16.31	70.86	81.9	40.0	0.0	36.8
176.0		0.2188	15.330	10.644	310.2	16.10	70.08	81.9	39.1	0.0	36.4
177.0		0.2188	15.160	10.524	299.9	15.89	69.30	81.9	38.2	0.0	36.0
178.0		0.2188	14.990	10.404	289.8	15.68	68.53	81.9	37.3	0.0	35.6
179.0		0.2188	14.820	10.285	279.9	15.47	67.75	81.9	36.5	0.0	35.2
180.0		0.2188	14.650	10.165	270.2	15.27	66.97	81.9	35.6	0.0	34.8

Site Number:	302501	Code:	ANSI/TIA-222-G	© 2007 - 2017 by ATC IP LLC. All rights reserved.
Site Name:	Plymouth CT 3, CT	Engineering Number:	OAA692457_C3_03	1/11/2017 3:56:56 PM
Customer:	AT&T Mobility			

19,594.5

Site Number: 302501 Code: ANSI/TIA-222-G © 2007 - 2017 by ATC IP LLC. All rights reserved.
Site Name: Plymouth CT 3, CT Engineering Number: OAA692457_C3_03 1/11/2017 3:56:56 PM
Customer: AT&T Mobility

Load Case: 1.2D + 1.6W 93 mph with No Ice 43 Iterations
Gust Response Factor : 1.10 Wind Importance Factor : 1.00
Dead Load Factor : 1.20
Wind Load Factor : 1.60

Applied Segment Forces Summary

Seg Elev (ft)	Description	Shaft Forces		Discrete Forces			Linear Forces		Sum of Forces				
		Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Torsion MY (lb-ft)	Moment MZ (lb)
0.00		49.1	0.0					0.0	0.0	49.1	0.0	0.0	0.0
1.00		98.0	214.7					0.0	0.0	98.0	214.7	0.0	0.0
2.00		97.6	213.8					0.0	0.0	97.6	213.8	0.0	0.0
3.00		97.2	213.0					0.0	0.0	97.2	213.0	0.0	0.0
4.00		96.9	212.2					0.0	0.0	96.9	212.2	0.0	0.0
5.00		96.5	211.3					0.0	0.0	96.5	211.3	0.0	0.0
6.00		96.1	210.5					0.0	0.0	96.1	210.5	0.0	0.0
7.00		98.3	209.7					0.0	0.0	98.3	209.7	0.0	0.0
8.00		100.5	208.8					0.0	33.6	100.5	242.4	0.0	0.0
9.00		100.3	208.0					0.0	33.6	100.3	241.6	0.0	0.0
10.00		100.0	207.1					0.0	33.6	100.0	240.8	0.0	0.0
11.00		99.8	206.3					0.0	33.6	99.8	239.9	0.0	0.0
12.00		99.5	205.5					0.0	33.6	99.5	239.1	0.0	0.0
13.00		99.2	204.6					0.0	33.6	99.2	238.2	0.0	0.0
14.00		99.0	203.8					0.0	33.6	99.0	237.4	0.0	0.0
15.00		98.7	202.9					0.0	33.6	98.7	236.6	0.0	0.0
16.00		98.4	202.1					0.0	33.6	98.4	235.7	0.0	0.0
17.00		98.2	201.3					0.0	33.6	98.2	234.9	0.0	0.0
18.00		97.9	200.4					0.0	33.6	97.9	234.1	0.0	0.0
19.00		97.6	199.6					0.0	33.6	97.6	233.2	0.0	0.0
20.00		97.4	198.8					0.0	33.6	97.4	232.4	0.0	0.0
21.00		97.1	197.9					0.0	33.6	97.1	231.5	0.0	0.0
22.00		96.8	197.1					0.0	33.6	96.8	230.7	0.0	0.0
23.00		96.6	196.2					0.0	33.6	96.6	229.9	0.0	0.0
24.00		96.3	195.4					0.0	33.6	96.3	229.0	0.0	0.0
25.00		96.0	194.6					0.0	33.6	96.0	228.2	0.0	0.0
26.00		95.8	193.7					0.0	33.6	95.8	227.3	0.0	0.0
27.00		95.5	192.9					0.0	33.6	95.5	226.5	0.0	0.0
28.00		95.2	192.0					0.0	33.6	95.2	225.7	0.0	0.0
29.00		95.0	191.2					0.0	33.6	95.0	224.8	0.0	0.0
30.00		95.0	190.4					0.0	33.6	95.0	224.0	0.0	0.0
31.00		95.4	189.5					0.0	33.6	95.4	223.2	0.0	0.0
32.00		96.0	188.7					0.0	33.6	96.0	222.3	0.0	0.0
33.00		96.6	187.9					0.0	33.6	96.6	221.5	0.0	0.0
34.00		97.1	187.0					0.0	33.6	97.1	220.6	0.0	0.0
35.00		97.7	186.2					0.0	33.6	97.7	219.8	0.0	0.0
36.00		98.2	185.3					0.0	33.6	98.2	219.0	0.0	0.0
37.00		98.6	184.5					0.0	33.6	98.6	218.1	0.0	0.0
38.00		99.1	183.7					0.0	33.6	99.1	217.3	0.0	0.0
39.00		99.6	182.8					0.0	33.6	99.6	216.4	0.0	0.0
40.00		100.0	182.0					0.0	33.6	100.0	215.6	0.0	0.0
41.00		100.4	181.2					0.0	33.6	100.4	214.8	0.0	0.0
42.00		67.2	180.3					0.0	33.6	67.2	213.9	0.0	0.0
42.33	Bot - Section 2	51.1	60.1					0.0	11.2	51.1	71.3	0.0	0.0
43.00		85.9	231.0					0.0	22.4	85.9	253.4	0.0	0.0
44.00		103.5	345.6					0.0	33.6	103.5	379.3	0.0	0.0
45.00		103.9	344.0					0.0	33.6	103.9	377.7	0.0	0.0
46.00		104.2	342.4					0.0	33.6	104.2	376.0	0.0	0.0

Site Number: 302501

Code: ANSI/TIA-222-G

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Site Name: Plymouth CT 3, CT

Engineering Number: OAA692457_C3_03

1/11/2017 3:57:07 PM

Customer: AT&T Mobility

Load Case: 1.2D + 1.6W

93 mph with No Ice

43 Iterations

Gust Response Factor : 1.10

Wind Importance Factor : 1.00

Dead Load Factor : 1.20

Wind Load Factor : 1.60

47.00	Top - Section 1	104.6	340.8					0.0	33.6	104.6	374.4	0.0	0.0
48.00		104.5	339.2					0.0	33.6	104.5	372.8	0.0	0.0
49.00		104.5	163.2					0.0	33.6	104.5	196.8	0.0	0.0
50.00		104.8	162.4					0.0	33.6	104.8	196.0	0.0	0.0
51.00		105.0	161.6					0.0	33.6	105.0	195.2	0.0	0.0
52.00		105.3	160.9					0.0	33.6	105.3	194.5	0.0	0.0
53.00		105.6	160.1					0.0	33.6	105.6	193.7	0.0	0.0
54.00		105.8	159.3					0.0	33.6	105.8	192.9	0.0	0.0
55.00		106.1	158.5					0.0	33.6	106.1	192.2	0.0	0.0
56.00		106.3	157.8					0.0	33.6	106.3	191.4	0.0	0.0
57.00		106.5	157.0					0.0	33.6	106.5	190.6	0.0	0.0
58.00		106.7	156.2					0.0	33.6	106.7	189.9	0.0	0.0
59.00		106.9	155.5					0.0	33.6	106.9	189.1	0.0	0.0
60.00		107.1	154.7					0.0	33.6	107.1	188.3	0.0	0.0
61.00		107.3	153.9					0.0	33.6	107.3	187.6	0.0	0.0
62.00		107.5	153.2					0.0	33.6	107.5	186.8	0.0	0.0
63.00		107.6	152.4					0.0	33.6	107.6	186.0	0.0	0.0
64.00		107.8	151.6					0.0	33.6	107.8	185.3	0.0	0.0
65.00		107.9	150.9					0.0	33.6	107.9	184.5	0.0	0.0
66.00		108.1	150.1					0.0	33.6	108.1	183.7	0.0	0.0
67.00		108.2	149.3					0.0	33.6	108.2	182.9	0.0	0.0
68.00		108.3	148.6					0.0	33.6	108.3	182.2	0.0	0.0
69.00		108.4	147.8					0.0	33.6	108.4	181.4	0.0	0.0
70.00		108.5	147.0					0.0	33.6	108.5	180.6	0.0	0.0
71.00		108.6	146.3					0.0	33.6	108.6	179.9	0.0	0.0
72.00		108.7	145.5					0.0	33.6	108.7	179.1	0.0	0.0
73.00		108.8	144.7					0.0	33.6	108.8	178.3	0.0	0.0
74.00		108.9	143.9					0.0	33.6	108.9	177.6	0.0	0.0
75.00		109.0	143.2					0.0	33.6	109.0	176.8	0.0	0.0
76.00		109.0	142.4					0.0	33.6	109.0	176.0	0.0	0.0
77.00		109.1	141.6					0.0	33.6	109.1	175.3	0.0	0.0
78.00		109.1	140.9					0.0	33.6	109.1	174.5	0.0	0.0
79.00		109.2	140.1					0.0	33.6	109.2	173.7	0.0	0.0
80.00		109.2	139.3					0.0	33.6	109.2	173.0	0.0	0.0
81.00		109.3	138.6					0.0	33.6	109.3	172.2	0.0	0.0
82.00		109.3	137.8					0.0	33.6	109.3	171.4	0.0	0.0
83.00		109.3	137.0					0.0	33.6	109.3	170.7	0.0	0.0
84.00		109.3	136.3					0.0	33.6	109.3	169.9	0.0	0.0
85.00		59.3	135.5					0.0	33.6	59.3	169.1	0.0	0.0
85.08		Bot - Section 3	55.6	11.4				0.0	2.8	55.6	14.2	0.0	0.0
86.00			106.7	226.4				0.0	30.8	106.7	257.2	0.0	0.0
87.00			111.4	245.9				0.0	33.6	111.4	279.5	0.0	0.0
88.00			111.4	244.5				0.0	33.6	111.4	278.1	0.0	0.0
89.00		111.4	243.1					0.0	33.6	111.4	276.7	0.0	0.0
90.00	55.8	241.7					0.0	33.6	55.8	275.3	0.0	0.0	
90.00	Top - Section 2	55.3	0.2				0.0	0.0	55.3	0.2	0.0	0.0	
91.00	Appertunance(s)	110.5	109.3	275.3	0.0	0.0	160.8	0.0	33.6	385.8	303.7	0.0	0.0
92.00		110.5	108.8					0.0	33.2	110.5	142.0	0.0	0.0
93.00		110.5	108.1					0.0	33.2	110.5	141.4	0.0	0.0
94.00		110.4	107.5					0.0	33.2	110.4	140.7	0.0	0.0
95.00		110.4	106.9					0.0	33.2	110.4	140.1	0.0	0.0
96.00		110.4	106.3					0.0	33.2	110.4	139.5	0.0	0.0
97.00		110.3	105.6					0.0	33.2	110.3	138.9	0.0	0.0
98.00		110.3	105.0					0.0	33.2	110.3	138.2	0.0	0.0
99.00		110.2	104.4					0.0	33.2	110.2	137.6	0.0	0.0
100.00		110.2	103.7					0.0	33.2	110.2	137.0	0.0	0.0
101.00		110.1	103.1					0.0	33.2	110.1	136.3	0.0	0.0

Site Number: 302501

Code: ANSI/TIA-222-G

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Site Name: Plymouth CT 3, CT

Engineering Number: OAA692457_C3_03

1/11/2017 3:57:07 PM

Customer: AT&T Mobility

Load Case: 1.2D + 1.6W

93 mph with No Ice

43 Iterations

Gust Response Factor : 1.10

Wind Importance Factor : 1.00

Dead Load Factor : 1.20

Wind Load Factor : 1.60

102.00	Appertunance(s)	110.0	102.5	283.8	0.0	52.0	190.8	0.0	33.2	393.8	326.5	0.0	0.0
103.00		110.0	101.9					0.0	33.0	110.0	134.9	0.0	0.0
104.00		109.9	101.2					0.0	33.0	109.9	134.3	0.0	0.0
105.00		109.8	100.6					0.0	33.0	109.8	133.6	0.0	0.0
106.00		109.7	100.0					0.0	33.0	109.7	133.0	0.0	0.0
107.00		109.6	99.3					0.0	33.0	109.6	132.4	0.0	0.0
108.00		109.5	98.7					0.0	33.0	109.5	131.8	0.0	0.0
109.00		109.4	98.1					0.0	33.0	109.4	131.1	0.0	0.0
110.00	Appertunance(s)	109.3	97.5	487.5	0.0	183.0	275.0	0.0	33.0	596.9	405.5	0.0	0.0
111.00		109.2	96.8					0.0	32.6	109.2	129.4	0.0	0.0
112.00		109.1	96.2					0.0	32.6	109.1	128.8	0.0	0.0
113.00		109.0	95.6					0.0	32.6	109.0	128.2	0.0	0.0
114.00		108.9	94.9					0.0	32.6	108.9	127.5	0.0	0.0
115.00		108.8	94.3					0.0	32.6	108.8	126.9	0.0	0.0
116.00		108.7	93.7					0.0	32.6	108.7	126.3	0.0	0.0
117.00		108.5	93.1					0.0	32.6	108.5	125.6	0.0	0.0
118.00		104.1	92.4					0.0	32.6	104.1	125.0	0.0	0.0
119.00		99.6	91.8					20.0	32.6	119.6	124.4	0.0	0.0
120.00		99.2	91.2					20.1	32.6	119.2	123.8	0.0	0.0
121.00		98.7	90.5					20.1	32.6	118.9	123.1	0.0	0.0
122.00		98.3	89.9					20.2	32.6	118.4	122.5	0.0	0.0
123.00		97.8	89.3					20.2	32.6	118.0	121.9	0.0	0.0
124.00		97.1	88.7					20.3	32.6	117.3	121.2	0.0	0.0
124.99	Top - Section 3	48.6	87.5					20.2	32.4	68.8	119.9	0.0	0.0
125.00		48.6	0.4					0.1	0.2	48.7	0.6	0.0	0.0
126.00		96.4	68.2					20.4	32.6	116.8	100.7	0.0	0.0
127.00		95.9	67.7					20.4	32.6	116.4	100.3	0.0	0.0
128.00		95.5	67.2					20.5	32.6	115.9	99.8	0.0	0.0
129.00		95.0	66.7					20.5	32.6	115.5	99.3	0.0	0.0
130.00		94.5	66.2					20.6	32.6	115.1	98.8	0.0	0.0
131.00		94.0	65.7					20.6	32.6	114.6	98.3	0.0	0.0
132.00		93.5	65.2					20.7	32.6	114.2	97.8	0.0	0.0
133.00		93.0	64.7					20.7	32.6	113.7	97.3	0.0	0.0
134.00		92.5	64.2					20.7	32.6	113.3	96.8	0.0	0.0
135.00		92.0	63.8					20.8	32.6	112.8	96.3	0.0	0.0
136.00		91.5	63.3					20.8	32.6	112.3	95.9	0.0	0.0
137.00		91.0	62.8					20.9	32.6	111.9	95.4	0.0	0.0
138.00		90.5	62.3					20.9	32.6	111.4	94.9	0.0	0.0
139.00		90.0	61.8					21.0	32.6	110.9	94.4	0.0	0.0
140.00		89.4	61.3					21.0	32.6	110.4	93.9	0.0	0.0
141.00		88.9	60.8					21.0	32.6	110.0	93.4	0.0	0.0
142.00		88.4	60.3					21.1	32.6	109.5	92.9	0.0	0.0
143.00		87.8	59.8					21.1	32.6	109.0	92.4	0.0	0.0
144.00		87.3	59.4					21.2	32.6	108.5	91.9	0.0	0.0
145.00		86.8	58.9					21.2	32.6	108.0	91.5	0.0	0.0
146.00		86.2	58.4					21.3	32.6	107.5	91.0	0.0	0.0
147.00		85.7	57.9					21.3	32.6	107.0	90.5	0.0	0.0
148.00		85.1	57.4					21.3	32.6	106.4	90.0	0.0	0.0
149.00		84.6	56.9					21.4	32.6	105.9	89.5	0.0	0.0
150.00	Appertunance(s)	83.2	56.4	877.8	0.0	681.5	538.8	21.4	32.6	982.4	627.8	0.0	0.0
151.00		82.0	55.9					0.0	26.1	82.0	82.1	0.0	0.0
152.00		81.7	55.4					0.0	26.1	81.7	81.6	0.0	0.0
153.00		81.5	55.0					0.0	26.1	81.5	81.1	0.0	0.0
154.00		81.2	54.5					0.0	26.1	81.2	80.6	0.0	0.0
155.00		80.9	54.0					0.0	26.1	80.9	80.1	0.0	0.0
156.00		80.6	53.5					0.0	26.1	80.6	79.6	0.0	0.0
157.00		80.4	53.0					0.0	26.1	80.4	79.1	0.0	0.0

Site Number: 302501	Code: ANSI/TIA-222-G	© 2007 - 2017 by ATC IP LLC. All rights reserved.
Site Name: Plymouth CT 3, CT	Engineering Number: OAA692457_C3_03	1/11/2017 3:57:07 PM
Customer: AT&T Mobility		

Load Case: 1.2D + 1.6W			93 mph with No Ice					43 Iterations					
Gust Response Factor : 1.10								Wind Importance Factor : 1.00					
Dead Load Factor : 1.20													
Wind Load Factor : 1.60													
158.00		80.1	52.5				0.0	26.1	80.1	78.6	0.0	0.0	
159.00		79.8	52.0				0.0	26.1	79.8	78.1	0.0	0.0	
160.00		79.5	51.5				0.0	26.1	79.5	77.7	0.0	0.0	
161.00		79.2	51.0				0.0	26.1	79.2	77.2	0.0	0.0	
162.00		78.9	50.6				0.0	26.1	78.9	76.7	0.0	0.0	
163.00		78.6	50.1				0.0	26.1	78.6	76.2	0.0	0.0	
164.00		78.3	49.6				0.0	26.1	78.3	75.7	0.0	0.0	
165.00		78.0	49.1				0.0	26.1	78.0	75.2	0.0	0.0	
166.00		77.7	48.6				0.0	26.1	77.7	74.7	0.0	0.0	
167.00		77.4	48.1				0.0	26.1	77.4	74.2	0.0	0.0	
168.00		77.1	47.6				0.0	26.1	77.1	73.7	0.0	0.0	
169.00		76.8	47.1				0.0	26.1	76.8	73.3	0.0	0.0	
170.00		76.5	46.6				0.0	26.1	76.5	72.8	0.0	0.0	
171.00	Appertunance(s)	67.8	46.2	529.1	0.0	0.0	95.0	0.0	26.1	597.0	167.3	0.0	0.0
172.00		59.0	45.7					0.0	20.2	59.0	65.9	0.0	0.0
173.00		58.5	45.2					0.0	20.2	58.5	65.4	0.0	0.0
174.00		57.9	44.7					0.0	20.2	57.9	64.9	0.0	0.0
175.00		57.4	44.2					0.0	20.2	57.4	64.4	0.0	0.0
176.00	Appertunance(s)	56.9	43.7	146.8	0.0	0.0	56.6	0.0	20.2	203.7	120.6	0.0	0.0
177.00		56.3	43.2					0.0	19.7	56.3	62.9	0.0	0.0
178.00		55.8	42.7					0.0	19.7	55.8	62.4	0.0	0.0
179.00		55.2	42.2					0.0	19.7	55.2	61.9	0.0	0.0
180.00		27.5	41.8					0.0	19.7	27.5	61.4	0.0	0.0
Totals:									20,740.0	30,316.5	0.00	0.00	

Site Number: 302501

Code: ANSI/TIA-222-G

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Site Name: Plymouth CT 3, CT

Engineering Number: OAA692457_C3_03

1/11/2017 3:57:07 PM

Customer: AT&T Mobility

Load Case: 1.2D + 1.6W

93 mph with No Ice

43 Iterations

Gust Response Factor : 1.10

Wind Importance Factor : 1.00

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	-33.17	-23.64	0.00	-2,664.10	0.00	2,664.10	3,477.38	1,738.69	6,258.10	3,090.64	0.00	0.00	0.872
1.00	-32.93	-23.57	0.00	-2,640.46	0.00	2,640.46	3,470.08	1,735.04	6,220.43	3,072.04	0.01	-0.06	0.869
2.00	-32.70	-23.51	0.00	-2,616.89	0.00	2,616.89	3,462.74	1,731.37	6,182.78	3,053.44	0.03	-0.12	0.867
3.00	-32.46	-23.44	0.00	-2,593.39	0.00	2,593.39	3,455.35	1,727.67	6,145.14	3,034.85	0.06	-0.18	0.864
4.00	-32.22	-23.38	0.00	-2,569.94	0.00	2,569.94	3,447.91	1,723.95	6,107.52	3,016.27	0.10	-0.24	0.862
5.00	-31.99	-23.32	0.00	-2,546.56	0.00	2,546.56	3,440.42	1,720.21	6,069.92	2,997.70	0.16	-0.30	0.859
6.00	-31.75	-23.25	0.00	-2,523.25	0.00	2,523.25	3,432.88	1,716.44	6,032.34	2,979.14	0.23	-0.36	0.856
7.00	-31.52	-23.18	0.00	-2,500.00	0.00	2,500.00	3,425.29	1,712.64	5,994.78	2,960.59	0.31	-0.42	0.854
8.00	-31.25	-23.11	0.00	-2,476.82	0.00	2,476.82	3,417.65	1,708.83	5,957.24	2,942.06	0.40	-0.48	0.851
9.00	-30.99	-23.04	0.00	-2,453.70	0.00	2,453.70	3,409.97	1,704.98	5,919.72	2,923.53	0.51	-0.54	0.849
10.00	-30.72	-22.97	0.00	-2,430.66	0.00	2,430.66	3,402.23	1,701.12	5,882.23	2,905.01	0.63	-0.60	0.846
11.00	-30.46	-22.90	0.00	-2,407.68	0.00	2,407.68	3,394.45	1,697.22	5,844.77	2,886.51	0.76	-0.66	0.843
12.00	-30.20	-22.83	0.00	-2,384.78	0.00	2,384.78	3,386.61	1,693.31	5,807.33	2,868.02	0.90	-0.72	0.841
13.00	-29.94	-22.76	0.00	-2,361.94	0.00	2,361.94	3,378.73	1,689.37	5,769.91	2,849.54	1.06	-0.78	0.838
14.00	-29.68	-22.69	0.00	-2,339.18	0.00	2,339.18	3,370.80	1,685.40	5,732.53	2,831.08	1.23	-0.84	0.835
15.00	-29.42	-22.62	0.00	-2,316.49	0.00	2,316.49	3,362.82	1,681.41	5,695.17	2,812.63	1.41	-0.90	0.833
16.00	-29.16	-22.55	0.00	-2,293.86	0.00	2,293.86	3,354.79	1,677.40	5,657.85	2,794.20	1.61	-0.96	0.830
17.00	-28.90	-22.48	0.00	-2,271.31	0.00	2,271.31	3,346.72	1,673.36	5,620.56	2,775.78	1.82	-1.02	0.827
18.00	-28.65	-22.41	0.00	-2,248.83	0.00	2,248.83	3,338.59	1,669.29	5,583.30	2,757.38	2.04	-1.09	0.824
19.00	-28.39	-22.34	0.00	-2,226.42	0.00	2,226.42	3,330.41	1,665.21	5,546.07	2,738.99	2.27	-1.15	0.822
20.00	-28.14	-22.27	0.00	-2,204.09	0.00	2,204.09	3,322.19	1,661.09	5,508.88	2,720.63	2.52	-1.21	0.819
21.00	-27.88	-22.19	0.00	-2,181.82	0.00	2,181.82	3,313.92	1,656.96	5,471.72	2,702.28	2.78	-1.27	0.816
22.00	-27.63	-22.12	0.00	-2,159.63	0.00	2,159.63	3,305.59	1,652.80	5,434.60	2,683.94	3.05	-1.33	0.813
23.00	-27.38	-22.05	0.00	-2,137.50	0.00	2,137.50	3,297.22	1,648.61	5,397.51	2,665.63	3.34	-1.40	0.810
24.00	-27.13	-21.98	0.00	-2,115.45	0.00	2,115.45	3,288.80	1,644.40	5,360.47	2,647.33	3.64	-1.46	0.808
25.00	-26.88	-21.91	0.00	-2,093.48	0.00	2,093.48	3,280.33	1,640.17	5,323.46	2,629.06	3.95	-1.52	0.805
26.00	-26.63	-21.83	0.00	-2,071.57	0.00	2,071.57	3,271.81	1,635.91	5,286.50	2,610.80	4.28	-1.59	0.802
27.00	-26.38	-21.76	0.00	-2,049.74	0.00	2,049.74	3,263.25	1,631.62	5,249.58	2,592.57	4.62	-1.65	0.799
28.00	-26.14	-21.69	0.00	-2,027.98	0.00	2,027.98	3,254.63	1,627.32	5,212.70	2,574.36	4.97	-1.71	0.796
29.00	-25.89	-21.61	0.00	-2,006.29	0.00	2,006.29	3,245.97	1,622.98	5,175.86	2,556.16	5.34	-1.78	0.793
30.00	-25.65	-21.54	0.00	-1,984.68	0.00	1,984.68	3,237.25	1,618.63	5,139.07	2,537.99	5.71	-1.84	0.790
31.00	-25.40	-21.47	0.00	-1,963.14	0.00	1,963.14	3,228.49	1,614.24	5,102.33	2,519.85	6.11	-1.90	0.787
32.00	-25.16	-21.39	0.00	-1,941.67	0.00	1,941.67	3,219.68	1,609.84	5,065.63	2,501.72	6.51	-1.97	0.784
33.00	-24.92	-21.32	0.00	-1,920.28	0.00	1,920.28	3,210.82	1,605.41	5,028.98	2,483.62	6.93	-2.03	0.781
34.00	-24.68	-21.24	0.00	-1,898.96	0.00	1,898.96	3,201.91	1,600.95	4,992.38	2,465.55	7.36	-2.09	0.778
35.00	-24.44	-21.16	0.00	-1,877.73	0.00	1,877.73	3,192.95	1,596.47	4,955.83	2,447.50	7.81	-2.16	0.775
36.00	-24.20	-21.08	0.00	-1,856.57	0.00	1,856.57	3,183.94	1,591.97	4,919.33	2,429.47	8.27	-2.22	0.772
37.00	-23.96	-21.00	0.00	-1,835.49	0.00	1,835.49	3,174.88	1,587.44	4,882.88	2,411.47	8.74	-2.29	0.769
38.00	-23.72	-20.92	0.00	-1,814.49	0.00	1,814.49	3,165.78	1,582.89	4,846.48	2,393.50	9.23	-2.35	0.766
39.00	-23.49	-20.84	0.00	-1,793.57	0.00	1,793.57	3,156.62	1,578.31	4,810.14	2,375.55	9.73	-2.42	0.763
40.00	-23.25	-20.75	0.00	-1,772.73	0.00	1,772.73	3,147.42	1,573.71	4,773.86	2,357.63	10.24	-2.48	0.759
41.00	-23.02	-20.67	0.00	-1,751.98	0.00	1,751.98	3,138.17	1,569.08	4,737.63	2,339.74	10.77	-2.55	0.756
42.00	-22.79	-20.61	0.00	-1,731.31	0.00	1,731.31	3,128.87	1,564.43	4,701.46	2,321.87	11.31	-2.61	0.753
42.33	-22.71	-20.57	0.00	-1,724.42	0.00	1,724.42	3,125.75	1,562.87	4,689.38	2,315.91	11.49	-2.64	0.752
43.00	-22.44	-20.49	0.00	-1,710.72	0.00	1,710.72	3,119.52	1,559.76	4,665.35	2,304.04	11.86	-2.68	0.750
44.00	-22.05	-20.40	0.00	-1,690.23	0.00	1,690.23	3,110.12	1,555.06	4,629.29	2,286.23	12.43	-2.74	0.747
45.00	-21.65	-20.30	0.00	-1,669.83	0.00	1,669.83	3,100.67	1,550.33	4,593.30	2,268.46	13.01	-2.81	0.743
46.00	-21.26	-20.20	0.00	-1,649.53	0.00	1,649.53	3,091.17	1,545.59	4,557.37	2,250.71	13.61	-2.88	0.740
47.00	-20.87	-20.10	0.00	-1,629.33	0.00	1,629.33	3,081.63	1,540.81	4,521.50	2,233.00	14.22	-2.94	0.737
48.00	-20.48	-20.00	0.00	-1,609.23	0.00	1,609.23	2,760.51	1,380.25	4,116.88	2,033.17	14.84	-3.01	0.799
49.00	-20.26	-19.91	0.00	-1,589.22	0.00	1,589.22	2,752.72	1,376.36	4,085.80	2,017.82	15.48	-3.07	0.795

Site Number: 302501

Code: ANSI/TIA-222-G

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Site Name: Plymouth CT 3, CT

Engineering Number: OAA692457_C3_03

1/11/2017 3:57:07 PM

Customer: AT&T Mobility

Load Case: 1.2D + 1.6W

93 mph with No Ice

43 Iterations

Gust Response Factor : 1.10

Wind Importance Factor : 1.00

Dead Load Factor : 1.20

Wind Load Factor : 1.60

50.00	-20.05	-19.82	0.00	-1,569.31	0.00	1,569.31	2,744.89	1,372.44	4,054.76	2,002.49	16.13	-3.14	0.791
51.00	-19.84	-19.73	0.00	-1,549.49	0.00	1,549.49	2,737.01	1,368.50	4,023.76	1,987.18	16.79	-3.21	0.787
52.00	-19.62	-19.64	0.00	-1,529.76	0.00	1,529.76	2,729.07	1,364.54	3,992.80	1,971.89	17.47	-3.28	0.783
53.00	-19.41	-19.54	0.00	-1,510.13	0.00	1,510.13	2,721.09	1,360.55	3,961.88	1,956.62	18.17	-3.35	0.779
54.00	-19.20	-19.45	0.00	-1,490.59	0.00	1,490.59	2,713.06	1,356.53	3,931.00	1,941.37	18.88	-3.42	0.775
55.00	-18.99	-19.35	0.00	-1,471.14	0.00	1,471.14	2,704.99	1,352.49	3,900.16	1,926.14	19.60	-3.48	0.771
56.00	-18.79	-19.26	0.00	-1,451.78	0.00	1,451.78	2,696.86	1,348.43	3,869.37	1,910.94	20.34	-3.55	0.767
57.00	-18.58	-19.16	0.00	-1,432.53	0.00	1,432.53	2,688.68	1,344.34	3,838.62	1,895.75	21.09	-3.62	0.763
58.00	-18.37	-19.07	0.00	-1,413.36	0.00	1,413.36	2,680.46	1,340.23	3,807.92	1,880.59	21.85	-3.69	0.759
59.00	-18.17	-18.97	0.00	-1,394.30	0.00	1,394.30	2,672.18	1,336.09	3,777.27	1,865.45	22.63	-3.76	0.754
60.00	-17.97	-18.87	0.00	-1,375.33	0.00	1,375.33	2,663.86	1,331.93	3,746.66	1,850.34	23.43	-3.83	0.750
61.00	-17.76	-18.77	0.00	-1,356.46	0.00	1,356.46	2,655.49	1,327.74	3,716.11	1,835.24	24.24	-3.90	0.746
62.00	-17.56	-18.67	0.00	-1,337.69	0.00	1,337.69	2,647.07	1,323.53	3,685.60	1,820.18	25.06	-3.97	0.742
63.00	-17.36	-18.58	0.00	-1,319.01	0.00	1,319.01	2,638.60	1,319.30	3,655.15	1,805.14	25.90	-4.04	0.737
64.00	-17.16	-18.48	0.00	-1,300.44	0.00	1,300.44	2,630.08	1,315.04	3,624.74	1,790.12	26.75	-4.11	0.733
65.00	-16.96	-18.37	0.00	-1,281.96	0.00	1,281.96	2,621.51	1,310.76	3,594.39	1,775.14	27.62	-4.17	0.729
66.00	-16.77	-18.27	0.00	-1,263.59	0.00	1,263.59	2,612.90	1,306.45	3,564.10	1,760.18	28.50	-4.24	0.724
67.00	-16.57	-18.17	0.00	-1,245.31	0.00	1,245.31	2,604.23	1,302.11	3,533.86	1,745.24	29.39	-4.31	0.720
68.00	-16.38	-18.07	0.00	-1,227.14	0.00	1,227.14	2,595.52	1,297.76	3,503.68	1,730.34	30.30	-4.38	0.716
69.00	-16.18	-17.97	0.00	-1,209.07	0.00	1,209.07	2,586.75	1,293.38	3,473.55	1,715.46	31.23	-4.45	0.711
70.00	-15.99	-17.87	0.00	-1,191.10	0.00	1,191.10	2,577.94	1,288.97	3,443.49	1,700.61	32.17	-4.52	0.707
71.00	-15.80	-17.76	0.00	-1,173.24	0.00	1,173.24	2,569.08	1,284.54	3,413.48	1,685.79	33.12	-4.59	0.702
72.00	-15.60	-17.66	0.00	-1,155.48	0.00	1,155.48	2,560.17	1,280.08	3,383.54	1,671.00	34.09	-4.66	0.698
73.00	-15.41	-17.55	0.00	-1,137.82	0.00	1,137.82	2,551.21	1,275.60	3,353.65	1,656.24	35.07	-4.73	0.693
74.00	-15.22	-17.45	0.00	-1,120.27	0.00	1,120.27	2,542.20	1,271.10	3,323.83	1,641.51	36.07	-4.80	0.689
75.00	-15.04	-17.34	0.00	-1,102.82	0.00	1,102.82	2,533.14	1,266.57	3,294.07	1,626.82	37.08	-4.87	0.684
76.00	-14.85	-17.24	0.00	-1,085.47	0.00	1,085.47	2,524.04	1,262.02	3,264.38	1,612.15	38.11	-4.94	0.679
77.00	-14.66	-17.13	0.00	-1,068.23	0.00	1,068.23	2,514.88	1,257.44	3,234.75	1,597.52	39.15	-5.01	0.675
78.00	-14.48	-17.03	0.00	-1,051.10	0.00	1,051.10	2,505.68	1,252.84	3,205.19	1,582.92	40.21	-5.08	0.670
79.00	-14.29	-16.92	0.00	-1,034.08	0.00	1,034.08	2,496.42	1,248.21	3,175.70	1,568.36	41.28	-5.15	0.665
80.00	-14.11	-16.81	0.00	-1,017.16	0.00	1,017.16	2,487.12	1,243.56	3,146.28	1,553.83	42.36	-5.22	0.660
81.00	-13.93	-16.70	0.00	-1,000.35	0.00	1,000.35	2,477.77	1,238.89	3,116.92	1,539.33	43.46	-5.29	0.656
82.00	-13.75	-16.60	0.00	-983.64	0.00	983.64	2,468.37	1,234.19	3,087.64	1,524.87	44.58	-5.36	0.651
83.00	-13.57	-16.49	0.00	-967.05	0.00	967.05	2,458.92	1,229.46	3,058.43	1,510.45	45.70	-5.43	0.646
84.00	-13.39	-16.38	0.00	-950.56	0.00	950.56	2,449.43	1,224.71	3,029.30	1,496.06	46.85	-5.50	0.641
85.00	-13.22	-16.31	0.00	-934.18	0.00	934.18	2,438.96	1,219.48	2,999.10	1,481.15	48.01	-5.57	0.636
85.08	-13.20	-16.26	0.00	-932.81	0.00	932.81	2,437.79	1,218.90	2,996.22	1,479.72	48.10	-5.58	0.636
86.00	-12.93	-16.15	0.00	-917.91	0.00	917.91	2,425.09	1,212.55	2,964.90	1,464.25	49.18	-5.64	0.632
87.00	-12.65	-16.02	0.00	-901.76	0.00	901.76	2,411.22	1,205.61	2,930.89	1,447.45	50.36	-5.71	0.628
88.00	-12.36	-15.90	0.00	-885.74	0.00	885.74	2,397.35	1,198.68	2,897.07	1,430.76	51.57	-5.78	0.624
89.00	-12.08	-15.78	0.00	-869.84	0.00	869.84	2,383.48	1,191.74	2,863.46	1,414.15	52.78	-5.85	0.620
90.00	-11.80	-15.70	0.00	-854.06	0.00	854.06	2,369.61	1,184.81	2,830.03	1,397.65	54.01	-5.92	0.616
90.00	-11.80	-15.65	0.00	-854.05	0.00	854.05	1,850.32	925.16	2,262.65	1,117.44	54.01	-5.92	0.771
91.00	-11.52	-15.25	0.00	-838.41	0.00	838.41	1,843.97	921.98	2,241.86	1,107.17	55.26	-5.99	0.764
92.00	-11.37	-15.14	0.00	-823.16	0.00	823.16	1,837.56	918.78	2,221.07	1,096.90	56.52	-6.07	0.757
93.00	-11.22	-15.03	0.00	-808.01	0.00	808.01	1,831.11	915.56	2,200.32	1,086.66	57.80	-6.15	0.750
94.00	-11.07	-14.92	0.00	-792.98	0.00	792.98	1,824.61	912.30	2,179.60	1,076.42	59.09	-6.23	0.743
95.00	-10.92	-14.81	0.00	-778.05	0.00	778.05	1,818.06	909.03	2,158.92	1,066.21	60.40	-6.31	0.736
96.00	-10.77	-14.70	0.00	-763.24	0.00	763.24	1,811.46	905.73	2,138.27	1,056.01	61.73	-6.39	0.729
97.00	-10.63	-14.59	0.00	-748.53	0.00	748.53	1,804.81	902.40	2,117.66	1,045.83	63.07	-6.46	0.722
98.00	-10.48	-14.48	0.00	-733.94	0.00	733.94	1,798.11	899.06	2,097.08	1,035.67	64.43	-6.54	0.715
99.00	-10.34	-14.37	0.00	-719.46	0.00	719.46	1,791.36	895.68	2,076.54	1,025.53	65.81	-6.62	0.708
100.00	-10.20	-14.26	0.00	-705.09	0.00	705.09	1,784.57	892.28	2,056.04	1,015.40	67.20	-6.70	0.700
101.00	-10.05	-14.15	0.00	-690.83	0.00	690.83	1,777.72	888.86	2,035.59	1,005.30	68.61	-6.78	0.693
102.00	-9.76	-13.73	0.00	-676.62	0.00	676.62	1,770.83	885.41	2,015.17	995.22	70.03	-6.86	0.686
103.00	-9.62	-13.62	0.00	-662.89	0.00	662.89	1,763.89	881.94	1,994.79	985.15	71.48	-6.94	0.679
104.00	-9.48	-13.51	0.00	-649.27	0.00	649.27	1,756.90	878.45	1,974.46	975.11	72.93	-7.01	0.671

Site Number: 302501

Code: ANSI/TIA-222-G

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Site Name: Plymouth CT 3, CT

Engineering Number: OAA692457_C3_03

1/11/2017 3:57:08 PM

Customer: AT&T Mobility

Load Case: 1.2D + 1.6W

93 mph with No Ice

43 Iterations

Gust Response Factor : 1.10

Wind Importance Factor : 1.00

Dead Load Factor : 1.20

Wind Load Factor : 1.60

105.00	-9.34	-13.40	0.00	-635.76	0.00	635.76	1,749.86	874.93	1,954.17	965.09	74.41	-7.09	0.664
106.00	-9.21	-13.28	0.00	-622.37	0.00	622.37	1,742.77	871.38	1,933.93	955.09	75.90	-7.17	0.657
107.00	-9.07	-13.17	0.00	-609.08	0.00	609.08	1,735.63	867.81	1,913.73	945.12	77.40	-7.25	0.650
108.00	-8.94	-13.06	0.00	-595.92	0.00	595.92	1,728.44	864.22	1,893.58	935.17	78.93	-7.32	0.643
109.00	-8.80	-12.94	0.00	-582.86	0.00	582.86	1,721.20	860.60	1,873.48	925.24	80.46	-7.40	0.635
110.00	-8.46	-12.31	0.00	-569.73	0.00	569.73	1,713.92	856.96	1,853.43	915.34	82.02	-7.48	0.628
111.00	-8.33	-12.20	0.00	-557.42	0.00	557.42	1,706.58	853.29	1,833.43	905.46	83.59	-7.55	0.621
112.00	-8.20	-12.08	0.00	-545.23	0.00	545.23	1,699.20	849.60	1,813.48	895.61	85.17	-7.63	0.614
113.00	-8.07	-11.97	0.00	-533.15	0.00	533.15	1,691.77	845.88	1,793.58	885.78	86.78	-7.71	0.607
114.00	-7.95	-11.85	0.00	-521.18	0.00	521.18	1,684.29	842.14	1,773.74	875.98	88.39	-7.78	0.600
115.00	-7.82	-11.74	0.00	-509.33	0.00	509.33	1,676.76	838.38	1,753.95	866.21	90.03	-7.86	0.593
116.00	-7.69	-11.62	0.00	-497.59	0.00	497.59	1,669.18	834.59	1,734.22	856.46	91.68	-7.93	0.586
117.00	-7.57	-11.51	0.00	-485.97	0.00	485.97	1,661.55	830.78	1,714.54	846.75	93.34	-8.01	0.579
118.00	-7.45	-11.40	0.00	-474.46	0.00	474.46	1,653.87	826.94	1,694.92	837.06	95.02	-8.08	0.572
119.00	-7.33	-11.27	0.00	-463.06	0.00	463.06	1,646.15	823.07	1,675.36	827.40	96.72	-8.16	0.564
120.00	-7.21	-11.14	0.00	-451.79	0.00	451.79	1,638.37	819.19	1,655.86	817.77	98.43	-8.23	0.557
121.00	-7.09	-11.02	0.00	-440.65	0.00	440.65	1,628.70	814.35	1,634.57	807.25	100.15	-8.31	0.550
122.00	-6.97	-10.89	0.00	-429.63	0.00	429.63	1,617.35	808.68	1,611.74	795.98	101.90	-8.38	0.544
123.00	-6.85	-10.77	0.00	-418.74	0.00	418.74	1,606.00	803.00	1,589.07	784.78	103.65	-8.45	0.538
124.00	-6.74	-10.64	0.00	-407.97	0.00	407.97	1,594.66	797.33	1,566.57	773.67	105.43	-8.53	0.532
124.99	-6.62	-10.56	0.00	-397.40	0.00	397.40	1,583.38	791.69	1,544.35	762.70	107.20	-8.60	0.525
124.99	-6.62	-10.56	0.00	-397.40	0.00	397.40	1,139.37	569.69	1,117.16	551.72	107.20	-8.60	0.726
125.00	-6.62	-10.52	0.00	-397.33	0.00	397.33	1,139.34	569.67	1,117.08	551.68	107.21	-8.60	0.726
126.00	-6.52	-10.40	0.00	-386.82	0.00	386.82	1,134.60	567.30	1,104.40	545.42	109.02	-8.69	0.715
127.00	-6.42	-10.28	0.00	-376.42	0.00	376.42	1,129.80	564.90	1,091.75	539.17	110.84	-8.78	0.704
128.00	-6.32	-10.16	0.00	-366.15	0.00	366.15	1,124.96	562.48	1,079.11	532.93	112.68	-8.88	0.693
129.00	-6.23	-10.04	0.00	-355.99	0.00	355.99	1,120.07	560.03	1,066.50	526.70	114.55	-8.97	0.682
130.00	-6.13	-9.92	0.00	-345.95	0.00	345.95	1,115.13	557.56	1,053.90	520.48	116.43	-9.06	0.670
131.00	-6.04	-9.80	0.00	-336.04	0.00	336.04	1,110.14	555.07	1,041.34	514.28	118.32	-9.15	0.659
132.00	-5.95	-9.68	0.00	-326.24	0.00	326.24	1,105.10	552.55	1,028.79	508.08	120.24	-9.23	0.648
133.00	-5.85	-9.56	0.00	-316.56	0.00	316.56	1,100.01	550.01	1,016.28	501.90	122.18	-9.32	0.636
134.00	-5.76	-9.44	0.00	-307.00	0.00	307.00	1,094.88	547.44	1,003.79	495.73	124.13	-9.41	0.625
135.00	-5.67	-9.32	0.00	-297.56	0.00	297.56	1,089.69	544.84	991.33	489.58	126.10	-9.50	0.613
136.00	-5.58	-9.20	0.00	-288.24	0.00	288.24	1,084.45	542.23	978.89	483.44	128.09	-9.58	0.602
137.00	-5.49	-9.09	0.00	-279.03	0.00	279.03	1,079.17	539.59	966.49	477.31	130.10	-9.67	0.590
138.00	-5.41	-8.97	0.00	-269.95	0.00	269.95	1,073.84	536.92	954.12	471.20	132.12	-9.75	0.578
139.00	-5.32	-8.85	0.00	-260.98	0.00	260.98	1,068.46	534.23	941.78	465.11	134.17	-9.84	0.566
140.00	-5.23	-8.73	0.00	-252.13	0.00	252.13	1,063.03	531.51	929.48	459.03	136.22	-9.92	0.554
141.00	-5.15	-8.62	0.00	-243.40	0.00	243.40	1,057.55	528.77	917.21	452.97	138.30	-10.00	0.542
142.00	-5.06	-8.50	0.00	-234.78	0.00	234.78	1,052.02	526.01	904.97	446.93	140.39	-10.08	0.530
143.00	-4.98	-8.38	0.00	-226.28	0.00	226.28	1,046.44	523.22	892.77	440.91	142.50	-10.16	0.518
144.00	-4.90	-8.27	0.00	-217.90	0.00	217.90	1,040.82	520.41	880.61	434.90	144.63	-10.24	0.506
145.00	-4.82	-8.15	0.00	-209.63	0.00	209.63	1,035.14	517.57	868.49	428.91	146.77	-10.32	0.494
146.00	-4.73	-8.03	0.00	-201.48	0.00	201.48	1,029.42	514.71	856.41	422.95	148.93	-10.40	0.481
147.00	-4.65	-7.92	0.00	-193.45	0.00	193.45	1,023.64	511.82	844.36	417.00	151.10	-10.47	0.469
148.00	-4.58	-7.80	0.00	-185.53	0.00	185.53	1,017.82	508.91	832.36	411.07	153.29	-10.55	0.456
149.00	-4.50	-7.69	0.00	-177.72	0.00	177.72	1,011.95	505.97	820.40	405.17	155.50	-10.62	0.443
150.00	-4.05	-6.61	0.00	-169.35	0.00	169.35	1,006.03	503.01	808.49	399.28	157.72	-10.69	0.428
151.00	-3.98	-6.52	0.00	-162.74	0.00	162.74	1,000.06	500.03	796.62	393.42	159.95	-10.76	0.418
152.00	-3.91	-6.43	0.00	-156.22	0.00	156.22	994.04	497.02	784.80	387.58	162.20	-10.83	0.407
153.00	-3.84	-6.34	0.00	-149.79	0.00	149.79	987.57	493.78	772.70	381.61	164.46	-10.90	0.397
154.00	-3.76	-6.25	0.00	-143.45	0.00	143.45	978.74	489.37	758.87	374.78	166.74	-10.97	0.387
155.00	-3.69	-6.16	0.00	-137.20	0.00	137.20	969.92	484.96	745.17	368.01	169.03	-11.03	0.377
156.00	-3.63	-6.07	0.00	-131.04	0.00	131.04	961.09	480.55	731.59	361.31	171.33	-11.10	0.367
157.00	-3.56	-5.98	0.00	-124.97	0.00	124.97	952.26	476.13	718.14	354.66	173.65	-11.16	0.356
158.00	-3.49	-5.89	0.00	-118.99	0.00	118.99	943.44	471.72	704.81	348.08	175.98	-11.23	0.346
159.00	-3.42	-5.80	0.00	-113.10	0.00	113.10	934.61	467.31	691.61	341.56	178.32	-11.29	0.335

Site Number: 302501 Code: ANSI/TIA-222-G © 2007 - 2017 by ATC IP LLC. All rights reserved.
 Site Name: Plymouth CT 3, CT Engineering Number: OAA692457_C3_03 1/11/2017 3:57:08 PM
 Customer: AT&T Mobility

Load Case: 1.2D + 1.6W 93 mph with No Ice 43 Iterations
 Gust Response Factor : 1.10 Wind Importance Factor : 1.00
 Dead Load Factor : 1.20
 Wind Load Factor : 1.60

160.00	-3.35	-5.71	0.00	-107.30	0.00	107.30	925.79	462.89	678.53	335.10	180.68	-11.35	0.324
161.00	-3.29	-5.62	0.00	-101.59	0.00	101.59	916.96	458.48	665.57	328.70	183.04	-11.40	0.313
162.00	-3.22	-5.53	0.00	-95.97	0.00	95.97	908.13	454.07	652.74	322.37	185.42	-11.46	0.301
163.00	-3.16	-5.44	0.00	-90.44	0.00	90.44	899.31	449.65	640.04	316.09	187.81	-11.52	0.290
164.00	-3.10	-5.35	0.00	-85.00	0.00	85.00	890.48	445.24	627.46	309.88	190.22	-11.57	0.278
165.00	-3.03	-5.26	0.00	-79.65	0.00	79.65	881.65	440.83	615.01	303.73	192.63	-11.62	0.266
166.00	-2.97	-5.17	0.00	-74.39	0.00	74.39	872.83	436.41	602.68	297.64	195.05	-11.67	0.253
167.00	-2.91	-5.09	0.00	-69.21	0.00	69.21	864.00	432.00	590.47	291.61	197.48	-11.72	0.241
168.00	-2.85	-5.00	0.00	-64.13	0.00	64.13	855.17	427.59	578.39	285.65	199.93	-11.77	0.228
169.00	-2.79	-4.91	0.00	-59.13	0.00	59.13	846.35	423.17	566.44	279.74	202.38	-11.81	0.215
170.00	-2.73	-4.82	0.00	-54.22	0.00	54.22	837.52	418.76	554.61	273.90	204.84	-11.85	0.201
171.00	-2.69	-4.71	0.00	-49.40	0.00	49.40	828.70	414.35	542.90	268.12	207.31	-11.89	0.188
172.00	-2.63	-4.61	0.00	-45.19	0.00	45.19	819.87	409.93	531.32	262.40	209.78	-11.93	0.176
173.00	-2.58	-4.50	0.00	-41.06	0.00	41.06	811.04	405.52	519.86	256.74	212.27	-11.96	0.163
174.00	-2.53	-4.40	0.00	-36.99	0.00	36.99	802.22	401.11	508.53	251.15	214.76	-11.99	0.151
175.00	-2.47	-4.33	0.00	-32.99	0.00	32.99	793.39	396.70	497.33	245.61	217.26	-12.02	0.138
176.00	-2.40	-4.27	0.00	-29.07	0.00	29.07	784.56	392.28	486.25	240.14	219.76	-12.05	0.124
177.00	-2.34	-4.20	0.00	-25.36	0.00	25.36	775.74	387.87	475.29	234.73	222.27	-12.08	0.111
178.00	-2.29	-4.13	0.00	-21.72	0.00	21.72	766.91	383.46	464.46	229.38	224.78	-12.10	0.098
179.00	-2.24	-4.07	0.00	-18.15	0.00	18.15	758.08	379.04	453.75	224.09	227.30	-12.12	0.084
180.00	0.00	-4.00	0.00	-14.64	0.00	14.64	749.26	374.63	443.17	218.87	229.82	-12.13	0.067

Site Number: 302501 Code: ANSI/TIA-222-G © 2007 - 2017 by ATC IP LLC. All rights reserved.
 Site Name: Plymouth CT 3, CT Engineering Number: OAA692457_C3_03 1/11/2017 3:57:08 PM
 Customer: AT&T Mobility

Load Case: 0.9D + 1.6W 93 mph with No Ice (Reduced DL) 42 Iterations
 Gust Response Factor : 1.10 Wind Importance Factor : 1.00
 Dead Load Factor : 0.90
 Wind Load Factor : 1.60

Applied Segment Forces Summary

Seg Elev (ft)	Description	Shaft Forces		Discrete Forces			Linear Forces		Sum of Forces				
		Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Torsion MY (lb-ft)	Moment MZ (lb)
0.00		49.1	0.0					0.0	0.0	49.1	0.0	0.0	0.0
1.00		98.0	161.0					0.0	0.0	98.0	161.0	0.0	0.0
2.00		97.6	160.4					0.0	0.0	97.6	160.4	0.0	0.0
3.00		97.2	159.8					0.0	0.0	97.2	159.8	0.0	0.0
4.00		96.9	159.1					0.0	0.0	96.9	159.1	0.0	0.0
5.00		96.5	158.5					0.0	0.0	96.5	158.5	0.0	0.0
6.00		96.1	157.9					0.0	0.0	96.1	157.9	0.0	0.0
7.00		95.7	157.2					0.0	0.0	95.7	157.2	0.0	0.0
8.00		95.3	156.6					0.0	25.2	95.3	181.8	0.0	0.0
9.00		95.0	156.0					0.0	25.2	95.0	181.2	0.0	0.0
10.00		94.6	155.4					0.0	25.2	94.6	180.6	0.0	0.0
11.00		94.2	154.7					0.0	25.2	94.2	179.9	0.0	0.0
12.00		93.8	154.1					0.0	25.2	93.8	179.3	0.0	0.0
13.00		93.4	153.5					0.0	25.2	93.4	178.7	0.0	0.0
14.00		93.1	152.8					0.0	25.2	93.1	178.1	0.0	0.0
15.00		92.7	152.2					0.0	25.2	92.7	177.4	0.0	0.0
16.00		92.3	151.6					0.0	25.2	92.3	176.8	0.0	0.0
17.00		91.9	151.0					0.0	25.2	91.9	176.2	0.0	0.0
18.00		91.5	150.3					0.0	25.2	91.5	175.5	0.0	0.0
19.00		91.1	149.7					0.0	25.2	91.1	174.9	0.0	0.0
20.00		90.8	149.1					0.0	25.2	90.8	174.3	0.0	0.0
21.00		90.4	148.4					0.0	25.2	90.4	173.7	0.0	0.0
22.00		90.0	147.8					0.0	25.2	90.0	173.0	0.0	0.0
23.00		89.6	147.2					0.0	25.2	89.6	172.4	0.0	0.0
24.00		89.2	146.6					0.0	25.2	89.2	171.8	0.0	0.0
25.00		88.9	145.9					0.0	25.2	88.9	171.1	0.0	0.0
26.00		88.5	145.3					0.0	25.2	88.5	170.5	0.0	0.0
27.00		88.1	144.7					0.0	25.2	88.1	169.9	0.0	0.0
28.00		87.7	144.0					0.0	25.2	87.7	169.3	0.0	0.0
29.00		87.3	143.4					0.0	25.2	87.3	168.6	0.0	0.0
30.00		87.2	142.8					0.0	25.2	87.2	168.0	0.0	0.0
31.00		87.5	142.1					0.0	25.2	87.5	167.4	0.0	0.0
32.00		87.9	141.5					0.0	25.2	87.9	166.7	0.0	0.0
33.00		88.3	140.9					0.0	25.2	88.3	166.1	0.0	0.0
34.00		88.6	140.3					0.0	25.2	88.6	165.5	0.0	0.0
35.00		89.0	139.6					0.0	25.2	89.0	164.9	0.0	0.0
36.00		89.3	139.0					0.0	25.2	89.3	164.2	0.0	0.0
37.00		89.6	138.4					0.0	25.2	89.6	163.6	0.0	0.0
38.00		89.9	137.7					0.0	25.2	89.9	163.0	0.0	0.0
39.00		90.1	137.1					0.0	25.2	90.1	162.3	0.0	0.0
40.00		90.4	136.5					0.0	25.2	90.4	161.7	0.0	0.0
41.00		90.6	135.9					0.0	25.2	90.6	161.1	0.0	0.0
42.00		60.5	135.2					0.0	25.2	60.5	160.5	0.0	0.0
42.33	Bot - Section 2	46.0	45.1					0.0	8.4	46.0	53.5	0.0	0.0
43.00		77.2	173.3					0.0	16.8	77.2	190.1	0.0	0.0
44.00		92.9	259.2					0.0	25.2	92.9	284.4	0.0	0.0
45.00		93.1	258.0					0.0	25.2	93.1	283.2	0.0	0.0
46.00		93.2	256.8					0.0	25.2	93.2	282.0	0.0	0.0

Load Case: 0.9D + 1.6W			93 mph with No Ice (Reduced DL)					42 Iterations					
Gust Response Factor : 1.10			Wind Importance Factor : 1.00										
Dead Load Factor : 0.90													
Wind Load Factor : 1.60													
47.00	Top - Section 1	93.4	255.6				0.0	25.2	93.4	280.8	0.0	0.0	
48.00		93.5	254.4				0.0	25.2	93.5	279.6	0.0	0.0	
49.00		93.6	122.4				0.0	25.2	93.6	147.6	0.0	0.0	
50.00		93.7	121.8				0.0	25.2	93.7	147.0	0.0	0.0	
51.00		93.8	121.2				0.0	25.2	93.8	146.4	0.0	0.0	
52.00		93.9	120.6				0.0	25.2	93.9	145.9	0.0	0.0	
53.00		93.9	120.1				0.0	25.2	93.9	145.3	0.0	0.0	
54.00		94.0	119.5				0.0	25.2	94.0	144.7	0.0	0.0	
55.00		94.0	118.9				0.0	25.2	94.0	144.1	0.0	0.0	
56.00		94.1	118.3				0.0	25.2	94.1	143.6	0.0	0.0	
57.00		94.1	117.8				0.0	25.2	94.1	143.0	0.0	0.0	
58.00		94.1	117.2				0.0	25.2	94.1	142.4	0.0	0.0	
59.00		94.1	116.6				0.0	25.2	94.1	141.8	0.0	0.0	
60.00		94.1	116.0				0.0	25.2	94.1	141.2	0.0	0.0	
61.00		94.0	115.5				0.0	25.2	94.0	140.7	0.0	0.0	
62.00		94.0	114.9				0.0	25.2	94.0	140.1	0.0	0.0	
63.00		94.0	114.3				0.0	25.2	94.0	139.5	0.0	0.0	
64.00		93.9	113.7				0.0	25.2	93.9	138.9	0.0	0.0	
65.00		93.9	113.1				0.0	25.2	93.9	138.4	0.0	0.0	
66.00		93.8	112.6				0.0	25.2	93.8	137.8	0.0	0.0	
67.00		93.7	112.0				0.0	25.2	93.7	137.2	0.0	0.0	
68.00		93.6	111.4				0.0	25.2	93.6	136.6	0.0	0.0	
69.00		93.6	110.8				0.0	25.2	93.6	136.1	0.0	0.0	
70.00		93.5	110.3				0.0	25.2	93.5	135.5	0.0	0.0	
71.00		93.4	109.7				0.0	25.2	93.4	134.9	0.0	0.0	
72.00		93.2	109.1				0.0	25.2	93.2	134.3	0.0	0.0	
73.00		93.1	108.5				0.0	25.2	93.1	133.8	0.0	0.0	
74.00		93.0	108.0				0.0	25.2	93.0	133.2	0.0	0.0	
75.00		92.8	107.4				0.0	25.2	92.8	132.6	0.0	0.0	
76.00		92.7	106.8				0.0	25.2	92.7	132.0	0.0	0.0	
77.00		92.6	106.2				0.0	25.2	92.6	131.4	0.0	0.0	
78.00		92.4	105.7				0.0	25.2	92.4	130.9	0.0	0.0	
79.00		92.2	105.1				0.0	25.2	92.2	130.3	0.0	0.0	
80.00		92.1	104.5				0.0	25.2	92.1	129.7	0.0	0.0	
81.00	91.9	103.9				0.0	25.2	91.9	129.1	0.0	0.0		
82.00	91.7	103.4				0.0	25.2	91.7	128.6	0.0	0.0		
83.00	91.5	102.8				0.0	25.2	91.5	128.0	0.0	0.0		
84.00	91.3	102.2				0.0	25.2	91.3	127.4	0.0	0.0		
85.00	49.4	101.6				0.0	25.2	49.4	126.8	0.0	0.0		
85.08	Bot - Section 3	46.3	8.5				0.0	2.1	46.3	10.6	0.0	0.0	
86.00		88.7	169.8				0.0	23.1	88.7	192.9	0.0	0.0	
87.00		92.4	184.4				0.0	25.2	92.4	209.6	0.0	0.0	
88.00	92.2	183.4				0.0	25.2	92.2	208.6	0.0	0.0		
89.00	92.0	182.3				0.0	25.2	92.0	207.5	0.0	0.0		
90.00	46.0	181.3				0.0	25.2	46.0	206.5	0.0	0.0		
90.00	Top - Section 2	45.8	0.1				0.0	0.0	45.8	0.2	0.0	0.0	
91.00	Appertunance(s)	91.5	82.0	275.3	0.0	0.0	120.6	0.0	25.2	366.7	227.8	0.0	0.0
92.00		91.3	81.6				0.0	24.9	91.3	106.5	0.0	0.0	
93.00		91.0	81.1				0.0	24.9	91.0	106.0	0.0	0.0	
94.00		90.8	80.6				0.0	24.9	90.8	105.6	0.0	0.0	
95.00		90.5	80.2				0.0	24.9	90.5	105.1	0.0	0.0	
96.00		90.3	79.7				0.0	24.9	90.3	104.6	0.0	0.0	
97.00		90.0	79.2				0.0	24.9	90.0	104.1	0.0	0.0	
98.00		89.7	78.7				0.0	24.9	89.7	103.7	0.0	0.0	
99.00		89.4	78.3				0.0	24.9	89.4	103.2	0.0	0.0	
100.00		89.2	77.8				0.0	24.9	89.2	102.7	0.0	0.0	
101.00	88.9	77.3				0.0	24.9	88.9	102.3	0.0	0.0		

Site Number: 302501

Code: ANSI/TIA-222-G

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Site Name: Plymouth CT 3, CT

Engineering Number: OAA692457_C3_03

1/11/2017 3:57:19 PM

Customer: AT&T Mobility

Load Case: 0.9D + 1.6W

93 mph with No Ice (Reduced DL)

42 Iterations

Gust Response Factor : 1.10

Wind Importance Factor : 1.00

Dead Load Factor : 0.90

Wind Load Factor : 1.60

102.00	Appertunance(s)	88.6	76.9	283.8	0.0	52.0	143.1	0.0	24.9	372.4	244.9	0.0	0.0
103.00		88.3	76.4					0.0	24.8	88.3	101.2	0.0	0.0
104.00		88.0	75.9					0.0	24.8	88.0	100.7	0.0	0.0
105.00		87.7	75.4					0.0	24.8	87.7	100.2	0.0	0.0
106.00		87.4	75.0					0.0	24.8	87.4	99.8	0.0	0.0
107.00		87.1	74.5					0.0	24.8	87.1	99.3	0.0	0.0
108.00		86.8	74.0					0.0	24.8	86.8	98.8	0.0	0.0
109.00		86.4	73.6					0.0	24.8	86.4	98.3	0.0	0.0
110.00	Appertunance(s)	86.1	73.1	487.5	0.0	183.0	206.3	0.0	24.8	573.6	304.2	0.0	0.0
111.00		85.8	72.6					0.0	24.4	85.8	97.1	0.0	0.0
112.00		85.4	72.1					0.0	24.4	85.4	96.6	0.0	0.0
113.00		85.1	71.7					0.0	24.4	85.1	96.1	0.0	0.0
114.00		84.8	71.2					0.0	24.4	84.8	95.6	0.0	0.0
115.00		84.4	70.7					0.0	24.4	84.4	95.2	0.0	0.0
116.00		84.1	70.3					0.0	24.4	84.1	94.7	0.0	0.0
117.00		83.7	69.8					0.0	24.4	83.7	94.2	0.0	0.0
118.00		91.7	69.3					0.0	24.4	91.7	93.8	0.0	0.0
119.00		99.6	68.8					20.0	24.4	119.6	93.3	0.0	0.0
120.00		99.2	68.4					20.1	24.4	119.2	92.8	0.0	0.0
121.00		98.7	67.9					20.1	24.4	118.9	92.3	0.0	0.0
122.00		98.3	67.4					20.2	24.4	118.4	91.9	0.0	0.0
123.00		97.8	67.0					20.2	24.4	118.0	91.4	0.0	0.0
124.00		97.1	66.5					20.3	24.4	117.3	90.9	0.0	0.0
124.99	Top - Section 3	48.6	65.6					20.2	24.3	68.8	89.9	0.0	0.0
125.00		48.6	0.3					0.1	0.1	48.7	0.4	0.0	0.0
126.00		96.4	51.1					20.4	24.4	116.8	75.6	0.0	0.0
127.00		95.9	50.7					20.4	24.4	116.4	75.2	0.0	0.0
128.00		95.5	50.4					20.5	24.4	115.9	74.8	0.0	0.0
129.00		95.0	50.0					20.5	24.4	115.5	74.5	0.0	0.0
130.00		94.5	49.6					20.6	24.4	115.1	74.1	0.0	0.0
131.00		94.0	49.3					20.6	24.4	114.6	73.7	0.0	0.0
132.00		93.5	48.9					20.7	24.4	114.2	73.4	0.0	0.0
133.00		93.0	48.5					20.7	24.4	113.7	73.0	0.0	0.0
134.00		92.5	48.2					20.7	24.4	113.3	72.6	0.0	0.0
135.00		92.0	47.8					20.8	24.4	112.8	72.3	0.0	0.0
136.00		91.5	47.4					20.8	24.4	112.3	71.9	0.0	0.0
137.00		91.0	47.1					20.9	24.4	111.9	71.5	0.0	0.0
138.00		90.5	46.7					20.9	24.4	111.4	71.2	0.0	0.0
139.00		90.0	46.3					21.0	24.4	110.9	70.8	0.0	0.0
140.00		89.4	46.0					21.0	24.4	110.4	70.4	0.0	0.0
141.00		88.9	45.6					21.0	24.4	110.0	70.1	0.0	0.0
142.00		88.4	45.2					21.1	24.4	109.5	69.7	0.0	0.0
143.00		87.8	44.9					21.1	24.4	109.0	69.3	0.0	0.0
144.00		87.3	44.5					21.2	24.4	108.5	69.0	0.0	0.0
145.00		86.8	44.1					21.2	24.4	108.0	68.6	0.0	0.0
146.00		86.2	43.8					21.3	24.4	107.5	68.2	0.0	0.0
147.00		85.7	43.4					21.3	24.4	107.0	67.9	0.0	0.0
148.00		85.1	43.0					21.3	24.4	106.4	67.5	0.0	0.0
149.00		84.6	42.7					21.4	24.4	105.9	67.1	0.0	0.0
150.00	Appertunance(s)	77.0	42.3	877.8	0.0	681.5	404.1	21.4	24.4	976.2	470.9	0.0	0.0
151.00		69.5	41.9					0.0	19.6	69.5	61.5	0.0	0.0
152.00		69.0	41.6					0.0	19.6	69.0	61.2	0.0	0.0
153.00		68.6	41.2					0.0	19.6	68.6	60.8	0.0	0.0
154.00		68.1	40.8					0.0	19.6	68.1	60.4	0.0	0.0
155.00		67.6	40.5					0.0	19.6	67.6	60.1	0.0	0.0
156.00		67.1	40.1					0.0	19.6	67.1	59.7	0.0	0.0
157.00		66.6	39.7					0.0	19.6	66.6	59.3	0.0	0.0

Site Number: 302501	Code: ANSI/TIA-222-G	© 2007 - 2017 by ATC IP LLC. All rights reserved.
Site Name: Plymouth CT 3, CT	Engineering Number: OAA692457_C3_03	1/11/2017 3:57:19 PM
Customer: AT&T Mobility		

Load Case: 0.9D + 1.6W			93 mph with No Ice (Reduced DL)						42 Iterations				
Gust Response Factor : 1.10									Wind Importance Factor : 1.00				
Dead Load Factor : 0.90													
Wind Load Factor : 1.60													
158.00		66.1	39.4					0.0	19.6	66.1	59.0	0.0	0.0
159.00		65.7	39.0					0.0	19.6	65.7	58.6	0.0	0.0
160.00		65.2	38.6					0.0	19.6	65.2	58.2	0.0	0.0
161.00		64.7	38.3					0.0	19.6	64.7	57.9	0.0	0.0
162.00		64.2	37.9					0.0	19.6	64.2	57.5	0.0	0.0
163.00		63.7	37.5					0.0	19.6	63.7	57.1	0.0	0.0
164.00		63.1	37.2					0.0	19.6	63.1	56.8	0.0	0.0
165.00		62.6	36.8					0.0	19.6	62.6	56.4	0.0	0.0
166.00		62.1	36.4					0.0	19.6	62.1	56.0	0.0	0.0
167.00		61.6	36.1					0.0	19.6	61.6	55.7	0.0	0.0
168.00		61.1	35.7					0.0	19.6	61.1	55.3	0.0	0.0
169.00		60.6	35.3					0.0	19.6	60.6	54.9	0.0	0.0
170.00		60.1	35.0					0.0	19.6	60.1	54.6	0.0	0.0
171.00	Appertunance(s)	59.5	34.6	529.1	0.0	0.0	71.3	0.0	19.6	588.7	125.5	0.0	0.0
172.00		59.0	34.2					0.0	15.2	59.0	49.4	0.0	0.0
173.00		58.5	33.9					0.0	15.2	58.5	49.0	0.0	0.0
174.00		57.9	33.5					0.0	15.2	57.9	48.7	0.0	0.0
175.00		57.4	33.1					0.0	15.2	57.4	48.3	0.0	0.0
176.00	Appertunance(s)	56.9	32.8	146.8	0.0	0.0	42.5	0.0	15.2	203.7	90.4	0.0	0.0
177.00		56.3	32.4					0.0	14.7	56.3	47.2	0.0	0.0
178.00		55.8	32.0					0.0	14.7	55.8	46.8	0.0	0.0
179.00		55.2	31.7					0.0	14.7	55.2	46.4	0.0	0.0
180.00		27.5	31.3					0.0	14.7	27.5	46.1	0.0	0.0
Totals:										18,876.3	22,737.3	0.00	0.00

Site Number: 302501

Code: ANSI/TIA-222-G

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Site Name: Plymouth CT 3, CT

Engineering Number: OAA692457_C3_03

1/11/2017 3:57:19 PM

Customer: AT&T Mobility

Load Case: 0.9D + 1.6W

93 mph with No Ice (Reduced DL)

42 Iterations

Gust Response Factor : 1.10

Wind Importance Factor : 1.00

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	-24.88	-21.77	0.00	-2,440.62	0.00	2,440.62	3,477.38	1,738.69	6,258.10	3,090.64	0.00	0.00	0.797
1.00	-24.70	-21.69	0.00	-2,418.86	0.00	2,418.86	3,470.08	1,735.04	6,220.43	3,072.04	0.01	-0.05	0.795
2.00	-24.52	-21.62	0.00	-2,397.17	0.00	2,397.17	3,462.74	1,731.37	6,182.78	3,053.44	0.02	-0.11	0.792
3.00	-24.34	-21.54	0.00	-2,375.55	0.00	2,375.55	3,455.35	1,727.67	6,145.14	3,034.85	0.05	-0.16	0.790
4.00	-24.16	-21.47	0.00	-2,354.01	0.00	2,354.01	3,447.91	1,723.95	6,107.52	3,016.27	0.09	-0.22	0.788
5.00	-23.98	-21.39	0.00	-2,332.55	0.00	2,332.55	3,440.42	1,720.21	6,069.92	2,997.70	0.14	-0.27	0.785
6.00	-23.80	-21.32	0.00	-2,311.15	0.00	2,311.15	3,432.88	1,716.44	6,032.34	2,979.14	0.21	-0.33	0.783
7.00	-23.62	-21.24	0.00	-2,289.84	0.00	2,289.84	3,425.29	1,712.64	5,994.78	2,960.59	0.28	-0.38	0.780
8.00	-23.42	-21.17	0.00	-2,268.59	0.00	2,268.59	3,417.65	1,708.83	5,957.24	2,942.06	0.37	-0.44	0.778
9.00	-23.22	-21.10	0.00	-2,247.42	0.00	2,247.42	3,409.97	1,704.98	5,919.72	2,923.53	0.46	-0.49	0.776
10.00	-23.02	-21.02	0.00	-2,226.33	0.00	2,226.33	3,402.23	1,701.12	5,882.23	2,905.01	0.57	-0.55	0.773
11.00	-22.82	-20.95	0.00	-2,205.30	0.00	2,205.30	3,394.45	1,697.22	5,844.77	2,886.51	0.69	-0.60	0.771
12.00	-22.62	-20.87	0.00	-2,184.36	0.00	2,184.36	3,386.61	1,693.31	5,807.33	2,868.02	0.83	-0.66	0.768
13.00	-22.43	-20.80	0.00	-2,163.48	0.00	2,163.48	3,378.73	1,689.37	5,769.91	2,849.54	0.97	-0.71	0.766
14.00	-22.23	-20.73	0.00	-2,142.68	0.00	2,142.68	3,370.80	1,685.40	5,732.53	2,831.08	1.13	-0.77	0.764
15.00	-22.03	-20.65	0.00	-2,121.95	0.00	2,121.95	3,362.82	1,681.41	5,695.17	2,812.63	1.29	-0.83	0.761
16.00	-21.84	-20.58	0.00	-2,101.30	0.00	2,101.30	3,354.79	1,677.40	5,657.85	2,794.20	1.47	-0.88	0.759
17.00	-21.64	-20.51	0.00	-2,080.72	0.00	2,080.72	3,346.72	1,673.36	5,620.56	2,775.78	1.66	-0.94	0.756
18.00	-21.45	-20.43	0.00	-2,060.21	0.00	2,060.21	3,338.59	1,669.29	5,583.30	2,757.38	1.87	-1.00	0.754
19.00	-21.25	-20.36	0.00	-2,039.78	0.00	2,039.78	3,330.41	1,665.21	5,546.07	2,738.99	2.08	-1.05	0.751
20.00	-21.06	-20.29	0.00	-2,019.42	0.00	2,019.42	3,322.19	1,661.09	5,508.88	2,720.63	2.31	-1.11	0.749
21.00	-20.87	-20.21	0.00	-1,999.13	0.00	1,999.13	3,313.92	1,656.96	5,471.72	2,702.28	2.55	-1.17	0.746
22.00	-20.68	-20.14	0.00	-1,978.92	0.00	1,978.92	3,305.59	1,652.80	5,434.60	2,683.94	2.80	-1.22	0.744
23.00	-20.49	-20.07	0.00	-1,958.78	0.00	1,958.78	3,297.22	1,648.61	5,397.51	2,665.63	3.06	-1.28	0.741
24.00	-20.30	-20.00	0.00	-1,938.71	0.00	1,938.71	3,288.80	1,644.40	5,360.47	2,647.33	3.33	-1.34	0.739
25.00	-20.11	-19.92	0.00	-1,918.71	0.00	1,918.71	3,280.33	1,640.17	5,323.46	2,629.06	3.62	-1.39	0.736
26.00	-19.92	-19.85	0.00	-1,898.79	0.00	1,898.79	3,271.81	1,635.91	5,286.50	2,610.80	3.92	-1.45	0.734
27.00	-19.73	-19.78	0.00	-1,878.94	0.00	1,878.94	3,263.25	1,631.62	5,249.58	2,592.57	4.23	-1.51	0.731
28.00	-19.55	-19.71	0.00	-1,859.16	0.00	1,859.16	3,254.63	1,627.32	5,212.70	2,574.36	4.55	-1.57	0.728
29.00	-19.36	-19.63	0.00	-1,839.46	0.00	1,839.46	3,245.97	1,622.98	5,175.86	2,556.16	4.89	-1.63	0.726
30.00	-19.17	-19.56	0.00	-1,819.82	0.00	1,819.82	3,237.25	1,618.63	5,139.07	2,537.99	5.23	-1.69	0.723
31.00	-18.99	-19.49	0.00	-1,800.26	0.00	1,800.26	3,228.49	1,614.24	5,102.33	2,519.85	5.59	-1.74	0.720
32.00	-18.81	-19.41	0.00	-1,780.77	0.00	1,780.77	3,219.68	1,609.84	5,065.63	2,501.72	5.97	-1.80	0.718
33.00	-18.62	-19.34	0.00	-1,761.36	0.00	1,761.36	3,210.82	1,605.41	5,028.98	2,483.62	6.35	-1.86	0.715
34.00	-18.44	-19.26	0.00	-1,742.02	0.00	1,742.02	3,201.91	1,600.95	4,992.38	2,465.55	6.75	-1.92	0.712
35.00	-18.26	-19.19	0.00	-1,722.76	0.00	1,722.76	3,192.95	1,596.47	4,955.83	2,447.50	7.15	-1.98	0.710
36.00	-18.08	-19.11	0.00	-1,703.57	0.00	1,703.57	3,183.94	1,591.97	4,919.33	2,429.47	7.57	-2.04	0.707
37.00	-17.90	-19.04	0.00	-1,684.45	0.00	1,684.45	3,174.88	1,587.44	4,882.88	2,411.47	8.01	-2.10	0.704
38.00	-17.72	-18.96	0.00	-1,665.42	0.00	1,665.42	3,165.78	1,582.89	4,846.48	2,393.50	8.45	-2.16	0.702
39.00	-17.54	-18.88	0.00	-1,646.46	0.00	1,646.46	3,156.62	1,578.31	4,810.14	2,375.55	8.91	-2.22	0.699
40.00	-17.36	-18.80	0.00	-1,627.58	0.00	1,627.58	3,147.42	1,573.71	4,773.86	2,357.63	9.38	-2.28	0.696
41.00	-17.19	-18.72	0.00	-1,608.78	0.00	1,608.78	3,138.17	1,569.08	4,737.63	2,339.74	9.87	-2.34	0.693
42.00	-17.02	-18.67	0.00	-1,590.06	0.00	1,590.06	3,128.87	1,564.43	4,701.46	2,321.87	10.36	-2.40	0.690
42.33	-16.95	-18.63	0.00	-1,583.82	0.00	1,583.82	3,125.75	1,562.87	4,689.38	2,315.91	10.53	-2.42	0.689
43.00	-16.75	-18.56	0.00	-1,571.42	0.00	1,571.42	3,119.52	1,559.76	4,665.35	2,304.04	10.87	-2.46	0.688
44.00	-16.45	-18.47	0.00	-1,552.86	0.00	1,552.86	3,110.12	1,555.06	4,629.29	2,286.23	11.39	-2.52	0.685
45.00	-16.15	-18.38	0.00	-1,534.39	0.00	1,534.39	3,100.67	1,550.33	4,593.30	2,268.46	11.92	-2.58	0.682
46.00	-15.86	-18.29	0.00	-1,516.01	0.00	1,516.01	3,091.17	1,545.59	4,557.37	2,250.71	12.47	-2.64	0.679
47.00	-15.56	-18.20	0.00	-1,497.72	0.00	1,497.72	3,081.63	1,540.81	4,521.50	2,233.00	13.03	-2.70	0.676
48.00	-15.27	-18.11	0.00	-1,479.51	0.00	1,479.51	2,760.51	1,380.25	4,116.88	2,033.17	13.60	-2.76	0.733
49.00	-15.11	-18.03	0.00	-1,461.40	0.00	1,461.40	2,752.72	1,376.36	4,085.80	2,017.82	14.18	-2.82	0.730

Site Number: 302501

Code: ANSI/TIA-222-G

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Site Name: Plymouth CT 3, CT

Engineering Number: OAA692457_C3_03

1/11/2017 3:57:19 PM

Customer: AT&T Mobility

Load Case: 0.9D + 1.6W

93 mph with No Ice (Reduced DL)

42 Iterations

Gust Response Factor : 1.10

Wind Importance Factor : 1.00

Dead Load Factor : 0.90

Wind Load Factor : 1.60

50.00	-14.94	-17.94	0.00	-1,443.37	0.00	1,443.37	2,744.89	1,372.44	4,054.76	2,002.49	14.78	-2.88	0.726
51.00	-14.78	-17.86	0.00	-1,425.43	0.00	1,425.43	2,737.01	1,368.50	4,023.76	1,987.18	15.39	-2.94	0.723
52.00	-14.62	-17.77	0.00	-1,407.57	0.00	1,407.57	2,729.07	1,364.54	3,992.80	1,971.89	16.01	-3.01	0.719
53.00	-14.46	-17.69	0.00	-1,389.80	0.00	1,389.80	2,721.09	1,360.55	3,961.88	1,956.62	16.65	-3.07	0.716
54.00	-14.30	-17.60	0.00	-1,372.11	0.00	1,372.11	2,713.06	1,356.53	3,931.00	1,941.37	17.30	-3.13	0.712
55.00	-14.15	-17.52	0.00	-1,354.51	0.00	1,354.51	2,704.99	1,352.49	3,900.16	1,926.14	17.96	-3.20	0.709
56.00	-13.99	-17.43	0.00	-1,337.00	0.00	1,337.00	2,696.86	1,348.43	3,869.37	1,910.94	18.64	-3.26	0.705
57.00	-13.83	-17.34	0.00	-1,319.57	0.00	1,319.57	2,688.68	1,344.34	3,838.62	1,895.75	19.33	-3.32	0.701
58.00	-13.68	-17.25	0.00	-1,302.23	0.00	1,302.23	2,680.46	1,340.23	3,807.92	1,880.59	20.03	-3.39	0.698
59.00	-13.52	-17.17	0.00	-1,284.97	0.00	1,284.97	2,672.18	1,336.09	3,777.27	1,865.45	20.75	-3.45	0.694
60.00	-13.37	-17.08	0.00	-1,267.81	0.00	1,267.81	2,663.86	1,331.93	3,746.66	1,850.34	21.48	-3.51	0.690
61.00	-13.21	-16.99	0.00	-1,250.73	0.00	1,250.73	2,655.49	1,327.74	3,716.11	1,835.24	22.22	-3.58	0.687
62.00	-13.06	-16.90	0.00	-1,233.74	0.00	1,233.74	2,647.07	1,323.53	3,685.60	1,820.18	22.97	-3.64	0.683
63.00	-12.91	-16.82	0.00	-1,216.83	0.00	1,216.83	2,638.60	1,319.30	3,655.15	1,805.14	23.74	-3.70	0.679
64.00	-12.76	-16.73	0.00	-1,200.02	0.00	1,200.02	2,630.08	1,315.04	3,624.74	1,790.12	24.53	-3.77	0.675
65.00	-12.61	-16.64	0.00	-1,183.29	0.00	1,183.29	2,621.51	1,310.76	3,594.39	1,775.14	25.32	-3.83	0.672
66.00	-12.46	-16.55	0.00	-1,166.65	0.00	1,166.65	2,612.90	1,306.45	3,564.10	1,760.18	26.13	-3.90	0.668
67.00	-12.31	-16.46	0.00	-1,150.10	0.00	1,150.10	2,604.23	1,302.11	3,533.86	1,745.24	26.95	-3.96	0.664
68.00	-12.16	-16.37	0.00	-1,133.64	0.00	1,133.64	2,595.52	1,297.76	3,503.68	1,730.34	27.79	-4.03	0.660
69.00	-12.01	-16.28	0.00	-1,117.27	0.00	1,117.27	2,586.75	1,293.38	3,473.55	1,715.46	28.64	-4.09	0.656
70.00	-11.87	-16.19	0.00	-1,100.99	0.00	1,100.99	2,577.94	1,288.97	3,443.49	1,700.61	29.50	-4.15	0.652
71.00	-11.72	-16.10	0.00	-1,084.80	0.00	1,084.80	2,569.08	1,284.54	3,413.48	1,685.79	30.38	-4.22	0.648
72.00	-11.58	-16.01	0.00	-1,068.70	0.00	1,068.70	2,560.17	1,280.08	3,383.54	1,671.00	31.27	-4.28	0.644
73.00	-11.43	-15.92	0.00	-1,052.68	0.00	1,052.68	2,551.21	1,275.60	3,353.65	1,656.24	32.17	-4.35	0.640
74.00	-11.29	-15.83	0.00	-1,036.76	0.00	1,036.76	2,542.20	1,271.10	3,323.83	1,641.51	33.09	-4.41	0.636
75.00	-11.15	-15.74	0.00	-1,020.93	0.00	1,020.93	2,533.14	1,266.57	3,294.07	1,626.82	34.02	-4.48	0.632
76.00	-11.00	-15.65	0.00	-1,005.19	0.00	1,005.19	2,524.04	1,262.02	3,264.38	1,612.15	34.96	-4.54	0.628
77.00	-10.86	-15.56	0.00	-989.54	0.00	989.54	2,514.88	1,257.44	3,234.75	1,597.52	35.92	-4.61	0.624
78.00	-10.72	-15.47	0.00	-973.98	0.00	973.98	2,505.68	1,252.84	3,205.19	1,582.92	36.89	-4.67	0.620
79.00	-10.58	-15.38	0.00	-958.51	0.00	958.51	2,496.42	1,248.21	3,175.70	1,568.36	37.87	-4.74	0.616
80.00	-10.44	-15.29	0.00	-943.13	0.00	943.13	2,487.12	1,243.56	3,146.28	1,553.83	38.87	-4.80	0.611
81.00	-10.30	-15.20	0.00	-927.84	0.00	927.84	2,477.77	1,238.89	3,116.92	1,539.33	39.88	-4.87	0.607
82.00	-10.17	-15.11	0.00	-912.64	0.00	912.64	2,468.37	1,234.19	3,087.64	1,524.87	40.91	-4.93	0.603
83.00	-10.03	-15.02	0.00	-897.53	0.00	897.53	2,458.92	1,229.46	3,058.43	1,510.45	41.95	-5.00	0.598
84.00	-9.90	-14.93	0.00	-882.52	0.00	882.52	2,449.43	1,224.71	3,029.30	1,496.06	43.00	-5.06	0.594
85.00	-9.76	-14.87	0.00	-867.59	0.00	867.59	2,438.96	1,219.48	2,999.10	1,481.15	44.06	-5.12	0.590
85.08	-9.75	-14.83	0.00	-866.34	0.00	866.34	2,437.79	1,218.90	2,996.22	1,479.72	44.15	-5.13	0.590
86.00	-9.55	-14.73	0.00	-852.76	0.00	852.76	2,425.09	1,212.55	2,964.90	1,464.25	45.14	-5.19	0.586
87.00	-9.33	-14.63	0.00	-838.02	0.00	838.02	2,411.22	1,205.61	2,930.89	1,447.45	46.24	-5.25	0.583
88.00	-9.12	-14.53	0.00	-823.39	0.00	823.39	2,397.35	1,198.68	2,897.07	1,430.76	47.34	-5.32	0.579
89.00	-8.90	-14.43	0.00	-808.85	0.00	808.85	2,383.48	1,191.74	2,863.46	1,414.15	48.46	-5.38	0.576
90.00	-8.69	-14.37	0.00	-794.42	0.00	794.42	2,369.61	1,184.81	2,830.03	1,397.65	49.59	-5.45	0.572
90.00	-8.69	-14.33	0.00	-794.41	0.00	794.41	1,850.32	925.16	2,262.65	1,117.44	49.60	-5.45	0.716
91.00	-8.48	-13.96	0.00	-780.09	0.00	780.09	1,843.97	921.98	2,241.86	1,107.17	50.74	-5.51	0.709
92.00	-8.37	-13.86	0.00	-766.14	0.00	766.14	1,837.56	918.78	2,221.07	1,096.90	51.90	-5.59	0.703
93.00	-8.25	-13.77	0.00	-752.27	0.00	752.27	1,831.11	915.56	2,200.32	1,086.66	53.08	-5.66	0.697
94.00	-8.14	-13.68	0.00	-738.50	0.00	738.50	1,824.61	912.30	2,179.60	1,076.42	54.27	-5.74	0.691
95.00	-8.02	-13.59	0.00	-724.81	0.00	724.81	1,818.06	909.03	2,158.92	1,066.21	55.48	-5.81	0.684
96.00	-7.91	-13.50	0.00	-711.22	0.00	711.22	1,811.46	905.73	2,138.27	1,056.01	56.70	-5.88	0.678
97.00	-7.80	-13.41	0.00	-697.72	0.00	697.72	1,804.81	902.40	2,117.66	1,045.83	57.94	-5.96	0.672
98.00	-7.69	-13.32	0.00	-684.30	0.00	684.30	1,798.11	899.06	2,097.08	1,035.67	59.19	-6.03	0.665
99.00	-7.58	-13.23	0.00	-670.98	0.00	670.98	1,791.36	895.68	2,076.54	1,025.53	60.46	-6.10	0.659
100.00	-7.47	-13.14	0.00	-657.75	0.00	657.75	1,784.57	892.28	2,056.04	1,015.40	61.75	-6.18	0.652
101.00	-7.36	-13.05	0.00	-644.60	0.00	644.60	1,777.72	888.86	2,035.59	1,005.30	63.05	-6.25	0.646
102.00	-7.14	-12.67	0.00	-631.50	0.00	631.50	1,770.83	885.41	2,015.17	995.22	64.36	-6.32	0.639
103.00	-7.04	-12.58	0.00	-618.83	0.00	618.83	1,763.89	881.94	1,994.79	985.15	65.69	-6.40	0.632
104.00	-6.93	-12.49	0.00	-606.26	0.00	606.26	1,756.90	878.45	1,974.46	975.11	67.04	-6.47	0.626

Site Number: 302501

Code: ANSI/TIA-222-G

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Site Name: Plymouth CT 3, CT

Engineering Number: OAA692457_C3_03

1/11/2017 3:57:19 PM

Customer: AT&T Mobility

Load Case: 0.9D + 1.6W

93 mph with No Ice (Reduced DL)

42 Iterations

Gust Response Factor : 1.10

Wind Importance Factor : 1.00

Dead Load Factor : 0.90

Wind Load Factor : 1.60

105.00	-6.82	-12.40	0.00	-593.77	0.00	593.77	1,749.86	874.93	1,954.17	965.09	68.40	-6.54	0.619
106.00	-6.72	-12.31	0.00	-581.38	0.00	581.38	1,742.77	871.38	1,933.93	955.09	69.77	-6.62	0.613
107.00	-6.62	-12.22	0.00	-569.07	0.00	569.07	1,735.63	867.81	1,913.73	945.12	71.16	-6.69	0.606
108.00	-6.51	-12.13	0.00	-556.86	0.00	556.86	1,728.44	864.22	1,893.58	935.17	72.57	-6.76	0.599
109.00	-6.41	-12.04	0.00	-544.73	0.00	544.73	1,721.20	860.60	1,873.48	925.24	73.99	-6.83	0.593
110.00	-6.16	-11.44	0.00	-532.51	0.00	532.51	1,713.92	856.96	1,853.43	915.34	75.42	-6.90	0.586
111.00	-6.06	-11.35	0.00	-521.07	0.00	521.07	1,706.58	853.29	1,833.43	905.46	76.87	-6.97	0.579
112.00	-5.96	-11.26	0.00	-509.72	0.00	509.72	1,699.20	849.60	1,813.48	895.61	78.34	-7.05	0.573
113.00	-5.86	-11.17	0.00	-498.46	0.00	498.46	1,691.77	845.88	1,793.58	885.78	79.82	-7.12	0.566
114.00	-5.77	-11.08	0.00	-487.29	0.00	487.29	1,684.29	842.14	1,773.74	875.98	81.31	-7.19	0.560
115.00	-5.67	-10.99	0.00	-476.20	0.00	476.20	1,676.76	838.38	1,753.95	866.21	82.82	-7.26	0.553
116.00	-5.57	-10.91	0.00	-465.21	0.00	465.21	1,669.18	834.59	1,734.22	856.46	84.34	-7.33	0.547
117.00	-5.48	-10.82	0.00	-454.31	0.00	454.31	1,661.55	830.78	1,714.54	846.75	85.88	-7.40	0.540
118.00	-5.38	-10.72	0.00	-443.49	0.00	443.49	1,653.87	826.94	1,694.92	837.06	87.44	-7.47	0.533
119.00	-5.29	-10.60	0.00	-432.77	0.00	432.77	1,646.15	823.07	1,675.36	827.40	89.00	-7.54	0.526
120.00	-5.20	-10.47	0.00	-422.17	0.00	422.17	1,638.37	819.19	1,655.86	817.77	90.59	-7.61	0.520
121.00	-5.11	-10.35	0.00	-411.70	0.00	411.70	1,628.70	814.35	1,634.57	807.25	92.18	-7.68	0.513
122.00	-5.03	-10.22	0.00	-401.35	0.00	401.35	1,617.35	808.68	1,611.74	795.98	93.79	-7.75	0.507
123.00	-4.94	-10.10	0.00	-391.13	0.00	391.13	1,606.00	803.00	1,589.07	784.78	95.42	-7.82	0.502
124.00	-4.86	-9.98	0.00	-381.02	0.00	381.02	1,594.66	797.33	1,566.57	773.67	97.06	-7.88	0.496
124.99	-4.77	-9.90	0.00	-371.11	0.00	371.11	1,583.38	791.69	1,544.35	762.70	98.70	-7.95	0.490
124.99	-4.77	-9.90	0.00	-371.11	0.00	371.11	1,139.37	569.69	1,117.16	551.72	98.70	-7.95	0.677
125.00	-4.77	-9.86	0.00	-371.05	0.00	371.05	1,139.34	569.67	1,117.08	551.68	98.71	-7.95	0.677
126.00	-4.70	-9.74	0.00	-361.19	0.00	361.19	1,134.60	567.30	1,104.40	545.42	100.38	-8.04	0.667
127.00	-4.62	-9.62	0.00	-351.45	0.00	351.45	1,129.80	564.90	1,091.75	539.17	102.07	-8.12	0.656
128.00	-4.55	-9.50	0.00	-341.84	0.00	341.84	1,124.96	562.48	1,079.11	532.93	103.77	-8.21	0.646
129.00	-4.48	-9.38	0.00	-332.34	0.00	332.34	1,120.07	560.03	1,066.50	526.70	105.50	-8.29	0.635
130.00	-4.41	-9.26	0.00	-322.96	0.00	322.96	1,115.13	557.56	1,053.90	520.48	107.24	-8.38	0.625
131.00	-4.34	-9.15	0.00	-313.69	0.00	313.69	1,110.14	555.07	1,041.34	514.28	108.99	-8.46	0.614
132.00	-4.27	-9.03	0.00	-304.55	0.00	304.55	1,105.10	552.55	1,028.79	508.08	110.77	-8.54	0.604
133.00	-4.20	-8.91	0.00	-295.52	0.00	295.52	1,100.01	550.01	1,016.28	501.90	112.56	-8.63	0.593
134.00	-4.14	-8.79	0.00	-286.61	0.00	286.61	1,094.88	547.44	1,003.79	495.73	114.37	-8.71	0.582
135.00	-4.07	-8.68	0.00	-277.82	0.00	277.82	1,089.69	544.84	991.33	489.58	116.20	-8.79	0.571
136.00	-4.00	-8.56	0.00	-269.14	0.00	269.14	1,084.45	542.23	978.89	483.44	118.04	-8.87	0.561
137.00	-3.94	-8.44	0.00	-260.58	0.00	260.58	1,079.17	539.59	966.49	477.31	119.90	-8.95	0.550
138.00	-3.88	-8.33	0.00	-252.13	0.00	252.13	1,073.84	536.92	954.12	471.20	121.77	-9.03	0.539
139.00	-3.81	-8.21	0.00	-243.81	0.00	243.81	1,068.46	534.23	941.78	465.11	123.66	-9.11	0.528
140.00	-3.75	-8.10	0.00	-235.59	0.00	235.59	1,063.03	531.51	929.48	459.03	125.57	-9.18	0.517
141.00	-3.69	-7.98	0.00	-227.50	0.00	227.50	1,057.55	528.77	917.21	452.97	127.50	-9.26	0.506
142.00	-3.63	-7.87	0.00	-219.51	0.00	219.51	1,052.02	526.01	904.97	446.93	129.43	-9.34	0.495
143.00	-3.56	-7.75	0.00	-211.64	0.00	211.64	1,046.44	523.22	892.77	440.91	131.39	-9.41	0.484
144.00	-3.50	-7.64	0.00	-203.89	0.00	203.89	1,040.82	520.41	880.61	434.90	133.36	-9.48	0.472
145.00	-3.45	-7.53	0.00	-196.25	0.00	196.25	1,035.14	517.57	868.49	428.91	135.35	-9.56	0.461
146.00	-3.39	-7.41	0.00	-188.72	0.00	188.72	1,029.42	514.71	856.41	422.95	137.35	-9.63	0.450
147.00	-3.33	-7.30	0.00	-181.31	0.00	181.31	1,023.64	511.82	844.36	417.00	139.36	-9.70	0.438
148.00	-3.27	-7.19	0.00	-174.01	0.00	174.01	1,017.82	508.91	832.36	411.07	141.39	-9.77	0.427
149.00	-3.22	-7.08	0.00	-166.82	0.00	166.82	1,011.95	505.97	820.40	405.17	143.43	-9.84	0.415
150.00	-2.91	-6.04	0.00	-159.06	0.00	159.06	1,006.03	503.01	808.49	399.28	145.49	-9.91	0.401
151.00	-2.86	-5.96	0.00	-153.02	0.00	153.02	1,000.06	500.03	796.62	393.42	147.56	-9.97	0.392
152.00	-2.80	-5.89	0.00	-147.06	0.00	147.06	994.04	497.02	784.80	387.58	149.65	-10.04	0.382
153.00	-2.75	-5.81	0.00	-141.17	0.00	141.17	987.57	493.78	772.70	381.61	151.75	-10.10	0.373
154.00	-2.69	-5.74	0.00	-135.36	0.00	135.36	978.74	489.37	758.87	374.78	153.86	-10.17	0.364
155.00	-2.64	-5.66	0.00	-129.63	0.00	129.63	969.92	484.96	745.17	368.01	155.99	-10.23	0.355
156.00	-2.59	-5.59	0.00	-123.96	0.00	123.96	961.09	480.55	731.59	361.31	158.12	-10.29	0.346
157.00	-2.53	-5.52	0.00	-118.37	0.00	118.37	952.26	476.13	718.14	354.66	160.27	-10.35	0.337
158.00	-2.48	-5.44	0.00	-112.86	0.00	112.86	943.44	471.72	704.81	348.08	162.44	-10.41	0.327
159.00	-2.43	-5.37	0.00	-107.42	0.00	107.42	934.61	467.31	691.61	341.56	164.61	-10.47	0.317

Site Number: 302501 Code: ANSI/TIA-222-G © 2007 - 2017 by ATC IP LLC. All rights reserved.
 Site Name: Plymouth CT 3, CT Engineering Number: OAA692457_C3_03 1/11/2017 3:57:20 PM
 Customer: AT&T Mobility

Load Case: 0.9D + 1.6W

93 mph with No Ice (Reduced DL)

42 Iterations

Gust Response Factor : 1.10

Wind Importance Factor : 1.00

Dead Load Factor : 0.90

Wind Load Factor : 1.60

160.00	-2.38	-5.30	0.00	-102.05	0.00	102.05	925.79	462.89	678.53	335.10	166.80	-10.53	0.307
161.00	-2.33	-5.23	0.00	-96.75	0.00	96.75	916.96	458.48	665.57	328.70	169.00	-10.58	0.297
162.00	-2.28	-5.15	0.00	-91.52	0.00	91.52	908.13	454.07	652.74	322.37	171.21	-10.63	0.287
163.00	-2.23	-5.08	0.00	-86.37	0.00	86.37	899.31	449.65	640.04	316.09	173.43	-10.69	0.276
164.00	-2.18	-5.01	0.00	-81.29	0.00	81.29	890.48	445.24	627.46	309.88	175.66	-10.74	0.265
165.00	-2.14	-4.94	0.00	-76.28	0.00	76.28	881.65	440.83	615.01	303.73	177.90	-10.79	0.254
166.00	-2.09	-4.87	0.00	-71.33	0.00	71.33	872.83	436.41	602.68	297.64	180.15	-10.84	0.242
167.00	-2.04	-4.80	0.00	-66.46	0.00	66.46	864.00	432.00	590.47	291.61	182.41	-10.88	0.230
168.00	-2.00	-4.73	0.00	-61.66	0.00	61.66	855.17	427.59	578.39	285.65	184.68	-10.93	0.218
169.00	-1.95	-4.67	0.00	-56.93	0.00	56.93	846.35	423.17	566.44	279.74	186.96	-10.97	0.206
170.00	-1.90	-4.60	0.00	-52.26	0.00	52.26	837.52	418.76	554.61	273.90	189.25	-11.01	0.193
171.00	-1.89	-4.00	0.00	-47.66	0.00	47.66	828.70	414.35	542.90	268.12	191.54	-11.05	0.180
172.00	-1.85	-3.93	0.00	-43.67	0.00	43.67	819.87	409.93	531.32	262.40	193.85	-11.08	0.169
173.00	-1.81	-3.86	0.00	-39.74	0.00	39.74	811.04	405.52	519.86	256.74	196.16	-11.11	0.157
174.00	-1.77	-3.80	0.00	-35.87	0.00	35.87	802.22	401.11	508.53	251.15	198.47	-11.15	0.145
175.00	-1.74	-3.73	0.00	-32.07	0.00	32.07	793.39	396.70	497.33	245.61	200.80	-11.17	0.133
176.00	-1.69	-3.52	0.00	-28.34	0.00	28.34	784.56	392.28	486.25	240.14	203.12	-11.20	0.120
177.00	-1.65	-3.45	0.00	-24.82	0.00	24.82	775.74	387.87	475.29	234.73	205.46	-11.23	0.108
178.00	-1.61	-3.39	0.00	-21.36	0.00	21.36	766.91	383.46	464.46	229.38	207.80	-11.25	0.095
179.00	-1.58	-3.33	0.00	-17.97	0.00	17.97	758.08	379.04	453.75	224.09	210.14	-11.27	0.082
180.00	0.00	-2.96	0.00	-14.64	0.00	14.64	749.26	374.63	443.17	218.87	212.49	-11.28	0.067

Site Number: 302501 Code: ANSI/TIA-222-G © 2007 - 2017 by ATC IP LLC. All rights reserved.
 Site Name: Plymouth CT 3, CT Engineering Number: OAA692457_C3_03 1/11/2017 3:57:20 PM
 Customer: AT&T Mobility

Load Case: 1.2D + 1.0Di + 1.0Wi 40 mph with 1.00 in Radial Ice 43 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 : 1.00
 Wind Load Factor : 1.00

Applied Segment Forces Summary

Seg Elev (ft)	Description	Shaft Forces		Discrete Forces			Linear Forces		Sum of Forces			
		Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)	Dead Load (lb)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Torsion MY (lb-ft)	Moment MZ (lb)
0.00		7.2	0.0					0.0	0.0	7.2	0.0	0.0
1.00		14.4	291.6					0.0	0.0	14.4	291.6	0.0
2.00		14.4	299.6					0.0	0.0	14.4	299.6	0.0
3.00		14.4	303.1					0.0	0.0	14.4	303.1	0.0
4.00		14.4	305.1					0.0	0.0	14.4	305.1	0.0
5.00		14.4	306.4					0.0	0.0	14.4	306.4	0.0
6.00		14.3	307.1					0.0	0.0	14.3	307.1	0.0
7.00		14.3	307.6					0.0	0.0	14.3	307.6	0.0
8.00		14.3	307.9					0.0	117.2	14.3	425.0	0.0
9.00		14.2	307.9					0.0	118.6	14.2	426.6	0.0
10.00		14.2	307.9					0.0	119.9	14.2	427.8	0.0
11.00		14.1	307.7					0.0	121.2	14.1	428.9	0.0
12.00		14.1	307.4					0.0	122.3	14.1	429.7	0.0
13.00		14.1	307.1					0.0	123.3	14.1	430.4	0.0
14.00		14.0	306.7					0.0	124.3	14.0	430.9	0.0
15.00		14.0	306.2					0.0	125.2	14.0	431.4	0.0
16.00		13.9	305.7					0.0	126.1	13.9	431.7	0.0
17.00		13.9	305.1					0.0	126.9	13.9	432.0	0.0
18.00		13.8	304.5					0.0	127.7	13.8	432.1	0.0
19.00		13.8	303.8					0.0	128.4	13.8	432.2	0.0
20.00		13.7	303.1					0.0	129.1	13.7	432.2	0.0
21.00		13.7	302.4					0.0	129.8	13.7	432.2	0.0
22.00		13.6	301.7					0.0	130.4	13.6	432.1	0.0
23.00		13.6	300.9					0.0	131.1	13.6	432.0	0.0
24.00		13.5	300.1					0.0	131.7	13.5	431.8	0.0
25.00		13.5	299.3					0.0	132.3	13.5	431.6	0.0
26.00		13.4	298.5					0.0	132.8	13.4	431.3	0.0
27.00		13.4	297.6					0.0	133.4	13.4	431.0	0.0
28.00		13.4	296.8					0.0	133.9	13.4	430.7	0.0
29.00		13.3	295.9					0.0	134.4	13.3	430.3	0.0
30.00		13.3	295.0					0.0	134.9	13.3	429.9	0.0
31.00		13.3	294.1					0.0	135.4	13.3	429.5	0.0
32.00		13.4	293.2					0.0	135.9	13.4	429.0	0.0
33.00		13.5	292.2					0.0	136.3	13.5	428.6	0.0
34.00		13.5	291.3					0.0	136.8	13.5	428.1	0.0
35.00		13.6	290.3					0.0	137.2	13.6	427.5	0.0
36.00		13.7	289.4					0.0	137.6	13.7	427.0	0.0
37.00		13.7	288.4					0.0	138.0	13.7	426.4	0.0
38.00		13.8	287.4					0.0	138.4	13.8	425.8	0.0
39.00		13.8	286.4					0.0	138.8	13.8	425.2	0.0
40.00		13.9	285.4					0.0	139.2	13.9	424.6	0.0
41.00		13.9	284.4					0.0	139.6	13.9	424.0	0.0
42.00		9.3	283.3					0.0	140.0	9.3	423.3	0.0
42.33	Bot - Section 2	7.1	94.5					0.0	46.9	7.1	141.4	0.0
43.00		11.9	300.7					0.0	93.5	11.9	394.2	0.0
44.00		14.3	450.1					0.0	140.7	14.3	590.8	0.0
45.00		14.3	448.3					0.0	141.1	14.3	589.4	0.0
46.00		14.3	446.5					0.0	141.4	14.3	587.9	0.0

Site Number: 302501

Code: ANSI/TIA-222-G

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Site Name: Plymouth CT 3, CT

Engineering Number: OAA692457_C3_03

1/11/2017 3:57:31 PM

Customer: AT&T Mobility

Load Case: 1.2D + 1.0Di + 1.0Wi

40 mph with 1.00 in Radial Ice

43 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 : 1.00

Wind Load Factor : 1.00

47.00	Top - Section 1	14.4	444.6					0.0	141.7	14.4	586.4	0.0	0.0
48.00		14.4	442.8					0.0	142.1	14.4	584.9	0.0	0.0
49.00		14.4	266.5					0.0	142.4	14.4	408.9	0.0	0.0
50.00		14.4	265.5					0.0	142.7	14.4	408.3	0.0	0.0
51.00		14.5	264.5					0.0	143.0	14.5	407.6	0.0	0.0
52.00		14.5	263.5					0.0	143.4	14.5	406.9	0.0	0.0
53.00		14.5	262.5					0.0	143.7	14.5	406.1	0.0	0.0
54.00		14.5	261.5					0.0	144.0	14.5	405.4	0.0	0.0
55.00		14.5	260.4					0.0	144.3	14.5	404.7	0.0	0.0
56.00		14.6	259.4					0.0	144.6	14.6	403.9	0.0	0.0
57.00		14.6	258.3					0.0	144.8	14.6	403.2	0.0	0.0
58.00		14.6	257.3					0.0	145.1	14.6	402.4	0.0	0.0
59.00		14.6	256.2					0.0	145.4	14.6	401.6	0.0	0.0
60.00		14.6	255.2					0.0	145.7	14.6	400.9	0.0	0.0
61.00		14.6	254.1					0.0	145.9	14.6	400.1	0.0	0.0
62.00		14.6	253.1					0.0	146.2	14.6	399.3	0.0	0.0
63.00		14.6	252.0					0.0	146.5	14.6	398.5	0.0	0.0
64.00		14.6	250.9					0.0	146.7	14.6	397.7	0.0	0.0
65.00		14.6	249.9					0.0	147.0	14.6	396.8	0.0	0.0
66.00		14.6	248.8					0.0	147.3	14.6	396.0	0.0	0.0
67.00		14.6	247.7					0.0	147.5	14.6	395.2	0.0	0.0
68.00		14.6	246.6					0.0	147.8	14.6	394.4	0.0	0.0
69.00		14.6	245.5					0.0	148.0	14.6	393.5	0.0	0.0
70.00		14.6	244.4					0.0	148.2	14.6	392.7	0.0	0.0
71.00		14.6	243.3					0.0	148.5	14.6	391.8	0.0	0.0
72.00		14.6	242.2					0.0	148.7	14.6	390.9	0.0	0.0
73.00		14.6	241.1					0.0	148.9	14.6	390.1	0.0	0.0
74.00		14.6	240.0					0.0	149.2	14.6	389.2	0.0	0.0
75.00		14.6	238.9					0.0	149.4	14.6	388.3	0.0	0.0
76.00		14.6	237.8					0.0	149.6	14.6	387.4	0.0	0.0
77.00		14.6	236.7					0.0	149.9	14.6	386.5	0.0	0.0
78.00		14.5	235.6					0.0	150.1	14.5	385.6	0.0	0.0
79.00		14.5	234.4					0.0	150.3	14.5	384.7	0.0	0.0
80.00		14.5	233.3					0.0	150.5	14.5	383.8	0.0	0.0
81.00	14.5	232.2					0.0	150.7	14.5	382.9	0.0	0.0	
82.00	14.5	231.1					0.0	150.9	14.5	382.0	0.0	0.0	
83.00	14.5	229.9					0.0	151.1	14.5	381.1	0.0	0.0	
84.00	14.4	228.8					0.0	151.3	14.4	380.2	0.0	0.0	
85.00	Bot - Section 3	7.8	227.7				0.0	151.6	7.8	379.2	0.0	0.0	
85.08		7.3	19.1				0.0	12.8	7.3	31.9	0.0	0.0	
86.00		14.0	312.0				0.0	139.0	14.0	451.0	0.0	0.0	
87.00		14.6	338.9				0.0	152.0	14.6	490.9	0.0	0.0	
88.00		14.6	337.1				0.0	152.2	14.6	489.3	0.0	0.0	
89.00	14.6	335.4					0.0	152.4	14.6	487.7	0.0	0.0	
90.00	Top - Section 2 Appertunance(s)	7.3	333.6				0.0	152.6	7.3	486.2	0.0	0.0	
90.00		7.3	0.3				0.0	0.1	7.3	0.4	0.0	0.0	
91.00		14.5	200.8	46.6	0.0	0.0	546.0	0.0	152.6	61.1	899.4	0.0	0.0
92.00		14.5	199.9					0.0	144.6	14.5	344.5	0.0	0.0
93.00		14.5	198.9					0.0	144.7	14.5	343.7	0.0	0.0
94.00		14.4	197.9					0.0	144.9	14.4	342.8	0.0	0.0
95.00		14.4	196.9					0.0	145.1	14.4	342.0	0.0	0.0
96.00		14.4	195.9					0.0	145.3	14.4	341.1	0.0	0.0
97.00		14.4	194.9					0.0	145.4	14.4	340.3	0.0	0.0
98.00		14.3	193.8					0.0	145.6	14.3	339.4	0.0	0.0
99.00		14.3	192.8					0.0	145.8	14.3	338.6	0.0	0.0
100.00		14.3	191.8					0.0	145.9	14.3	337.7	0.0	0.0
101.00	14.2	190.8					0.0	146.1	14.2	336.8	0.0	0.0	

Load Case: 1.2D + 1.0Di + 1.0Wi		40 mph with 1.00 in Radial Ice								43 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 : 1.00			
Wind Load Factor : 1.00													
102.00	Appertunance(s)	14.2	189.7	61.4	0.0	21.2	373.9	0.0	146.3	75.6	709.9	0.0	0.0
103.00		14.2	188.7					0.0	139.0	14.2	327.7	0.0	0.0
104.00		14.1	187.7					0.0	139.1	14.1	326.8	0.0	0.0
105.00		14.1	186.6					0.0	139.3	14.1	325.9	0.0	0.0
106.00		14.1	185.6					0.0	139.4	14.1	325.0	0.0	0.0
107.00		14.0	184.6					0.0	139.6	14.0	324.1	0.0	0.0
108.00		14.0	183.5					0.0	139.7	14.0	323.2	0.0	0.0
109.00		13.9	182.5					0.0	139.8	13.9	322.3	0.0	0.0
110.00	Appertunance(s)	13.9	181.4	87.4	0.0	51.3	676.6	0.0	140.0	101.3	998.0	0.0	0.0
111.00		13.9	180.4					0.0	124.1	13.9	304.5	0.0	0.0
112.00		13.8	179.3					0.0	124.3	13.8	303.6	0.0	0.0
113.00		13.8	178.3					0.0	124.4	13.8	302.7	0.0	0.0
114.00		13.7	177.2					0.0	124.5	13.7	301.7	0.0	0.0
115.00		13.7	176.2					0.0	124.6	13.7	300.8	0.0	0.0
116.00		13.7	175.1					0.0	124.7	13.7	299.8	0.0	0.0
117.00		13.6	174.1					0.0	124.8	13.6	298.9	0.0	0.0
118.00		13.6	173.0					0.0	124.9	13.6	298.0	0.0	0.0
119.00		13.5	172.0					10.4	125.0	23.9	297.0	0.0	0.0
120.00		13.5	170.9					10.4	125.1	23.9	296.1	0.0	0.0
121.00		13.4	169.9					10.5	125.2	23.9	295.1	0.0	0.0
122.00		13.4	168.8					10.5	125.3	23.9	294.1	0.0	0.0
123.00		13.4	167.7					10.5	125.4	23.9	293.2	0.0	0.0
124.00		13.3	166.7					10.5	125.5	23.8	292.2	0.0	0.0
124.99	Top - Section 3	6.6	164.7					10.5	124.9	17.2	289.6	0.0	0.0
125.00		6.7	0.9					0.1	0.7	6.7	1.6	0.0	0.0
126.00		13.2	145.3					10.6	125.8	23.8	271.1	0.0	0.0
127.00		13.2	144.4					10.6	125.9	23.8	270.2	0.0	0.0
128.00		13.1	143.5					10.7	126.0	23.8	269.4	0.0	0.0
129.00		13.1	142.5					10.7	126.1	23.8	268.6	0.0	0.0
130.00		13.0	141.6					10.7	126.2	23.8	267.8	0.0	0.0
131.00		13.0	140.7					10.8	126.3	23.7	266.9	0.0	0.0
132.00		12.9	139.7					10.8	126.3	23.7	266.1	0.0	0.0
133.00		12.9	138.8					10.8	126.4	23.7	265.2	0.0	0.0
134.00		12.8	137.9					10.9	126.5	23.7	264.4	0.0	0.0
135.00		12.8	136.9					10.9	126.6	23.6	263.6	0.0	0.0
136.00		12.7	136.0					10.9	126.7	23.6	262.7	0.0	0.0
137.00		12.7	135.1					10.9	126.8	23.6	261.9	0.0	0.0
138.00		12.6	134.1					11.0	126.9	23.6	261.0	0.0	0.0
139.00		12.5	133.2					11.0	127.0	23.5	260.2	0.0	0.0
140.00		12.5	132.2					11.0	127.1	23.5	259.3	0.0	0.0
141.00		12.4	131.3					11.1	127.2	23.5	258.5	0.0	0.0
142.00		12.4	130.3					11.1	127.3	23.5	257.6	0.0	0.0
143.00		12.3	129.4					11.1	127.4	23.4	256.8	0.0	0.0
144.00		12.3	128.5					11.1	127.5	23.4	255.9	0.0	0.0
145.00		12.2	127.5					11.2	127.6	23.4	255.1	0.0	0.0
146.00		12.2	126.6					11.2	127.7	23.4	254.2	0.0	0.0
147.00		12.1	125.6					11.2	127.7	23.3	253.4	0.0	0.0
148.00		12.0	124.7					11.3	127.8	23.3	252.5	0.0	0.0
149.00		12.0	123.7					11.3	127.9	23.3	251.6	0.0	0.0
150.00	Appertunance(s)	11.9	122.8	224.7	0.0	222.3	1,812.2	11.3	128.0	248.0	2,063.0	0.0	0.0
151.00		11.9	121.8					0.0	73.9	11.9	195.7	0.0	0.0
152.00		11.8	120.8					0.0	73.9	11.8	194.8	0.0	0.0
153.00		11.7	119.9					0.0	74.0	11.7	193.9	0.0	0.0
154.00		11.7	118.9					0.0	74.0	11.7	192.9	0.0	0.0
155.00		11.6	118.0					0.0	74.1	11.6	192.0	0.0	0.0
156.00		11.6	117.0					0.0	74.1	11.6	191.1	0.0	0.0
157.00		11.5	116.1					0.0	74.1	11.5	190.2	0.0	0.0

Site Number: 302501	Code: ANSI/TIA-222-G	© 2007 - 2017 by ATC IP LLC. All rights reserved.
Site Name: Plymouth CT 3, CT	Engineering Number: OAA692457_C3_03	1/11/2017 3:57:31 PM
Customer: AT&T Mobility		

Load Case: 1.2D + 1.0Di + 1.0Wi			40 mph with 1.00 in Radial Ice						43 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 : 1.00				
Wind Load Factor : 1.00													
158.00		11.4	115.1					0.0	74.2	11.4	189.3	0.0	0.0
159.00		11.4	114.1					0.0	74.2	11.4	188.4	0.0	0.0
160.00		11.3	113.2					0.0	74.3	11.3	187.4	0.0	0.0
161.00		11.2	112.2					0.0	74.3	11.2	186.5	0.0	0.0
162.00		11.2	111.3					0.0	74.3	11.2	185.6	0.0	0.0
163.00		11.1	110.3					0.0	74.4	11.1	184.7	0.0	0.0
164.00		11.0	109.3					0.0	74.4	11.0	183.8	0.0	0.0
165.00		11.0	108.4					0.0	74.5	11.0	182.8	0.0	0.0
166.00		10.9	107.4					0.0	74.5	10.9	181.9	0.0	0.0
167.00		10.9	106.4					0.0	74.5	10.9	181.0	0.0	0.0
168.00		10.8	105.5					0.0	74.6	10.8	180.0	0.0	0.0
169.00		10.7	104.5					0.0	74.6	10.7	179.1	0.0	0.0
170.00		10.7	103.5					0.0	74.7	10.7	178.2	0.0	0.0
171.00	Appertunance(s)	10.6	102.5	81.4	0.0	0.0	622.3	0.0	74.7	91.9	799.6	0.0	0.0
172.00		10.5	101.6					0.0	38.3	10.5	139.9	0.0	0.0
173.00		10.4	100.6					0.0	38.3	10.4	138.9	0.0	0.0
174.00		10.4	99.6					0.0	38.3	10.4	138.0	0.0	0.0
175.00		10.3	98.7					0.0	38.3	10.3	137.0	0.0	0.0
176.00	Appertunance(s)	10.2	97.7	24.9	0.0	0.0	243.9	0.0	38.4	35.1	379.9	0.0	0.0
177.00		10.2	96.7					0.0	19.7	10.2	116.4	0.0	0.0
178.00		10.1	95.7					0.0	19.7	10.1	115.4	0.0	0.0
179.00		10.0	94.8					0.0	19.7	10.0	114.4	0.0	0.0
180.00		5.0	93.8					0.0	19.7	5.0	113.4	0.0	0.0
Totals:									3,286.29	64,690.9	0.00	0.00	

Site Number: 302501

Code: ANSI/TIA-222-G

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Site Name: Plymouth CT 3, CT

Engineering Number: OAA692457_C3_03

1/11/2017 3:57:31 PM

Customer: AT&T Mobility

Load Case: 1.2D + 1.0Di + 1.0Wi

40 mph with 1.00 in Radial Ice

43 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 : 1.00

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	-72.27	-3.86	0.00	-537.66	0.00	537.66	3,477.38	1,738.69	6,258.10	3,090.64	0.00	0.00	0.195
1.00	-71.98	-3.86	0.00	-533.81	0.00	533.81	3,470.08	1,735.04	6,220.43	3,072.04	0.00	-0.01	0.195
2.00	-71.68	-3.86	0.00	-529.95	0.00	529.95	3,462.74	1,731.37	6,182.78	3,053.44	0.01	-0.02	0.194
3.00	-71.37	-3.86	0.00	-526.09	0.00	526.09	3,455.35	1,727.67	6,145.14	3,034.85	0.01	-0.04	0.194
4.00	-71.07	-3.86	0.00	-522.24	0.00	522.24	3,447.91	1,723.95	6,107.52	3,016.27	0.02	-0.05	0.194
5.00	-70.76	-3.86	0.00	-518.38	0.00	518.38	3,440.42	1,720.21	6,069.92	2,997.70	0.03	-0.06	0.193
6.00	-70.45	-3.86	0.00	-514.52	0.00	514.52	3,432.88	1,716.44	6,032.34	2,979.14	0.05	-0.07	0.193
7.00	-70.14	-3.86	0.00	-510.66	0.00	510.66	3,425.29	1,712.64	5,994.78	2,960.59	0.06	-0.08	0.193
8.00	-69.72	-3.86	0.00	-506.81	0.00	506.81	3,417.65	1,708.83	5,957.24	2,942.06	0.08	-0.10	0.193
9.00	-69.29	-3.86	0.00	-502.95	0.00	502.95	3,409.97	1,704.98	5,919.72	2,923.53	0.10	-0.11	0.192
10.00	-68.86	-3.86	0.00	-499.09	0.00	499.09	3,402.23	1,701.12	5,882.23	2,905.01	0.13	-0.12	0.192
11.00	-68.43	-3.86	0.00	-495.23	0.00	495.23	3,394.45	1,697.22	5,844.77	2,886.51	0.15	-0.13	0.192
12.00	-68.00	-3.86	0.00	-491.37	0.00	491.37	3,386.61	1,693.31	5,807.33	2,868.02	0.18	-0.15	0.191
13.00	-67.57	-3.86	0.00	-487.52	0.00	487.52	3,378.73	1,689.37	5,769.91	2,849.54	0.22	-0.16	0.191
14.00	-67.14	-3.86	0.00	-483.66	0.00	483.66	3,370.80	1,685.40	5,732.53	2,831.08	0.25	-0.17	0.191
15.00	-66.70	-3.86	0.00	-479.80	0.00	479.80	3,362.82	1,681.41	5,695.17	2,812.63	0.29	-0.18	0.190
16.00	-66.27	-3.86	0.00	-475.95	0.00	475.95	3,354.79	1,677.40	5,657.85	2,794.20	0.33	-0.20	0.190
17.00	-65.84	-3.86	0.00	-472.09	0.00	472.09	3,346.72	1,673.36	5,620.56	2,775.78	0.37	-0.21	0.190
18.00	-65.41	-3.85	0.00	-468.24	0.00	468.24	3,338.59	1,669.29	5,583.30	2,757.38	0.42	-0.22	0.189
19.00	-64.97	-3.85	0.00	-464.38	0.00	464.38	3,330.41	1,665.21	5,546.07	2,738.99	0.46	-0.24	0.189
20.00	-64.54	-3.85	0.00	-460.53	0.00	460.53	3,322.19	1,661.09	5,508.88	2,720.63	0.51	-0.25	0.189
21.00	-64.11	-3.85	0.00	-456.68	0.00	456.68	3,313.92	1,656.96	5,471.72	2,702.28	0.57	-0.26	0.188
22.00	-63.67	-3.85	0.00	-452.82	0.00	452.82	3,305.59	1,652.80	5,434.60	2,683.94	0.62	-0.27	0.188
23.00	-63.24	-3.85	0.00	-448.97	0.00	448.97	3,297.22	1,648.61	5,397.51	2,665.63	0.68	-0.29	0.188
24.00	-62.81	-3.85	0.00	-445.12	0.00	445.12	3,288.80	1,644.40	5,360.47	2,647.33	0.74	-0.30	0.187
25.00	-62.38	-3.85	0.00	-441.28	0.00	441.28	3,280.33	1,640.17	5,323.46	2,629.06	0.81	-0.31	0.187
26.00	-61.94	-3.85	0.00	-437.43	0.00	437.43	3,271.81	1,635.91	5,286.50	2,610.80	0.88	-0.33	0.186
27.00	-61.51	-3.84	0.00	-433.59	0.00	433.59	3,263.25	1,631.62	5,249.58	2,592.57	0.95	-0.34	0.186
28.00	-61.08	-3.84	0.00	-429.74	0.00	429.74	3,254.63	1,627.32	5,212.70	2,574.36	1.02	-0.35	0.186
29.00	-60.65	-3.84	0.00	-425.90	0.00	425.90	3,245.97	1,622.98	5,175.86	2,556.16	1.09	-0.37	0.185
30.00	-60.22	-3.84	0.00	-422.06	0.00	422.06	3,237.25	1,618.63	5,139.07	2,537.99	1.17	-0.38	0.185
31.00	-59.79	-3.84	0.00	-418.22	0.00	418.22	3,228.49	1,614.24	5,102.33	2,519.85	1.25	-0.39	0.184
32.00	-59.36	-3.83	0.00	-414.39	0.00	414.39	3,219.68	1,609.84	5,065.63	2,501.72	1.34	-0.41	0.184
33.00	-58.93	-3.83	0.00	-410.55	0.00	410.55	3,210.82	1,605.41	5,028.98	2,483.62	1.43	-0.42	0.184
34.00	-58.50	-3.83	0.00	-406.72	0.00	406.72	3,201.91	1,600.95	4,992.38	2,465.55	1.52	-0.44	0.183
35.00	-58.07	-3.83	0.00	-402.89	0.00	402.89	3,192.95	1,596.47	4,955.83	2,447.50	1.61	-0.45	0.183
36.00	-57.64	-3.82	0.00	-399.07	0.00	399.07	3,183.94	1,591.97	4,919.33	2,429.47	1.70	-0.46	0.182
37.00	-57.22	-3.82	0.00	-395.24	0.00	395.24	3,174.88	1,587.44	4,882.88	2,411.47	1.80	-0.48	0.182
38.00	-56.79	-3.82	0.00	-391.43	0.00	391.43	3,165.78	1,582.89	4,846.48	2,393.50	1.90	-0.49	0.181
39.00	-56.36	-3.81	0.00	-387.61	0.00	387.61	3,156.62	1,578.31	4,810.14	2,375.55	2.01	-0.51	0.181
40.00	-55.94	-3.81	0.00	-383.80	0.00	383.80	3,147.42	1,573.71	4,773.86	2,357.63	2.12	-0.52	0.181
41.00	-55.51	-3.80	0.00	-379.99	0.00	379.99	3,138.17	1,569.08	4,737.63	2,339.74	2.23	-0.53	0.180
42.00	-55.09	-3.80	0.00	-376.19	0.00	376.19	3,128.87	1,564.43	4,701.46	2,321.87	2.34	-0.55	0.180
42.33	-54.95	-3.80	0.00	-374.92	0.00	374.92	3,125.75	1,562.87	4,689.38	2,315.91	2.38	-0.55	0.179
43.00	-54.55	-3.79	0.00	-372.39	0.00	372.39	3,119.52	1,559.76	4,665.35	2,304.04	2.46	-0.56	0.179
44.00	-53.96	-3.79	0.00	-368.59	0.00	368.59	3,110.12	1,555.06	4,629.29	2,286.23	2.57	-0.58	0.179
45.00	-53.37	-3.78	0.00	-364.81	0.00	364.81	3,100.67	1,550.33	4,593.30	2,268.46	2.70	-0.59	0.178
46.00	-52.78	-3.77	0.00	-361.03	0.00	361.03	3,091.17	1,545.59	4,557.37	2,250.71	2.82	-0.60	0.177
47.00	-52.20	-3.77	0.00	-357.25	0.00	357.25	3,081.63	1,540.81	4,521.50	2,233.00	2.95	-0.62	0.177
48.00	-51.61	-3.76	0.00	-353.49	0.00	353.49	2,760.51	1,380.25	4,116.88	2,033.17	3.08	-0.63	0.193
49.00	-51.20	-3.75	0.00	-349.73	0.00	349.73	2,752.72	1,376.36	4,085.80	2,017.82	3.22	-0.65	0.192

Site Number: 302501

Code: ANSI/TIA-222-G

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Site Name: Plymouth CT 3, CT

Engineering Number: OAA692457_C3_03

1/11/2017 3:57:31 PM

Customer: AT&T Mobility

Load Case: 1.2D + 1.0Di + 1.0Wi

40 mph with 1.00 in Radial Ice

43 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 : 1.00

Wind Load Factor : 1.00

50.00	-50.79	-3.75	0.00	-345.98	0.00	345.98	2,744.89	1,372.44	4,054.76	2,002.49	3.35	-0.66	0.191
51.00	-50.38	-3.74	0.00	-342.23	0.00	342.23	2,737.01	1,368.50	4,023.76	1,987.18	3.49	-0.68	0.191
52.00	-49.98	-3.73	0.00	-338.49	0.00	338.49	2,729.07	1,364.54	3,992.80	1,971.89	3.64	-0.69	0.190
53.00	-49.57	-3.73	0.00	-334.76	0.00	334.76	2,721.09	1,360.55	3,961.88	1,956.62	3.78	-0.71	0.189
54.00	-49.16	-3.72	0.00	-331.03	0.00	331.03	2,713.06	1,356.53	3,931.00	1,941.37	3.93	-0.72	0.189
55.00	-48.76	-3.71	0.00	-327.31	0.00	327.31	2,704.99	1,352.49	3,900.16	1,926.14	4.09	-0.74	0.188
56.00	-48.35	-3.71	0.00	-323.59	0.00	323.59	2,696.86	1,348.43	3,869.37	1,910.94	4.24	-0.75	0.187
57.00	-47.95	-3.70	0.00	-319.88	0.00	319.88	2,688.68	1,344.34	3,838.62	1,895.75	4.40	-0.77	0.187
58.00	-47.55	-3.69	0.00	-316.18	0.00	316.18	2,680.46	1,340.23	3,807.92	1,880.59	4.57	-0.79	0.186
59.00	-47.14	-3.69	0.00	-312.49	0.00	312.49	2,672.18	1,336.09	3,777.27	1,865.45	4.73	-0.80	0.185
60.00	-46.74	-3.68	0.00	-308.80	0.00	308.80	2,663.86	1,331.93	3,746.66	1,850.34	4.90	-0.82	0.184
61.00	-46.34	-3.67	0.00	-305.12	0.00	305.12	2,655.49	1,327.74	3,716.11	1,835.24	5.08	-0.83	0.184
62.00	-45.94	-3.66	0.00	-301.45	0.00	301.45	2,647.07	1,323.53	3,685.60	1,820.18	5.25	-0.85	0.183
63.00	-45.54	-3.65	0.00	-297.79	0.00	297.79	2,638.60	1,319.30	3,655.15	1,805.14	5.43	-0.86	0.182
64.00	-45.14	-3.65	0.00	-294.14	0.00	294.14	2,630.08	1,315.04	3,624.74	1,790.12	5.61	-0.88	0.181
65.00	-44.75	-3.64	0.00	-290.49	0.00	290.49	2,621.51	1,310.76	3,594.39	1,775.14	5.80	-0.89	0.181
66.00	-44.35	-3.63	0.00	-286.85	0.00	286.85	2,612.90	1,306.45	3,564.10	1,760.18	5.99	-0.91	0.180
67.00	-43.95	-3.62	0.00	-283.22	0.00	283.22	2,604.23	1,302.11	3,533.86	1,745.24	6.18	-0.93	0.179
68.00	-43.56	-3.61	0.00	-279.60	0.00	279.60	2,595.52	1,297.76	3,503.68	1,730.34	6.38	-0.94	0.178
69.00	-43.16	-3.60	0.00	-275.99	0.00	275.99	2,586.75	1,293.38	3,473.55	1,715.46	6.57	-0.96	0.178
70.00	-42.77	-3.59	0.00	-272.39	0.00	272.39	2,577.94	1,288.97	3,443.49	1,700.61	6.78	-0.97	0.177
71.00	-42.38	-3.58	0.00	-268.80	0.00	268.80	2,569.08	1,284.54	3,413.48	1,685.79	6.98	-0.99	0.176
72.00	-41.99	-3.57	0.00	-265.21	0.00	265.21	2,560.17	1,280.08	3,383.54	1,671.00	7.19	-1.01	0.175
73.00	-41.60	-3.56	0.00	-261.64	0.00	261.64	2,551.21	1,275.60	3,353.65	1,656.24	7.40	-1.02	0.174
74.00	-41.21	-3.55	0.00	-258.08	0.00	258.08	2,542.20	1,271.10	3,323.83	1,641.51	7.62	-1.04	0.173
75.00	-40.82	-3.54	0.00	-254.52	0.00	254.52	2,533.14	1,266.57	3,294.07	1,626.82	7.84	-1.05	0.173
76.00	-40.43	-3.53	0.00	-250.98	0.00	250.98	2,524.04	1,262.02	3,264.38	1,612.15	8.06	-1.07	0.172
77.00	-40.04	-3.52	0.00	-247.45	0.00	247.45	2,514.88	1,257.44	3,234.75	1,597.52	8.29	-1.09	0.171
78.00	-39.66	-3.51	0.00	-243.92	0.00	243.92	2,505.68	1,252.84	3,205.19	1,582.92	8.52	-1.10	0.170
79.00	-39.27	-3.50	0.00	-240.41	0.00	240.41	2,496.42	1,248.21	3,175.70	1,568.36	8.75	-1.12	0.169
80.00	-38.89	-3.49	0.00	-236.91	0.00	236.91	2,487.12	1,243.56	3,146.28	1,553.83	8.98	-1.13	0.168
81.00	-38.50	-3.48	0.00	-233.42	0.00	233.42	2,477.77	1,238.89	3,116.92	1,539.33	9.22	-1.15	0.167
82.00	-38.12	-3.47	0.00	-229.94	0.00	229.94	2,468.37	1,234.19	3,087.64	1,524.87	9.47	-1.17	0.166
83.00	-37.74	-3.46	0.00	-226.47	0.00	226.47	2,458.92	1,229.46	3,058.43	1,510.45	9.71	-1.18	0.165
84.00	-37.36	-3.44	0.00	-223.02	0.00	223.02	2,449.43	1,224.71	3,029.30	1,496.06	9.96	-1.20	0.164
85.00	-36.98	-3.43	0.00	-219.57	0.00	219.57	2,438.96	1,219.48	2,999.10	1,481.15	10.21	-1.22	0.163
85.08	-36.95	-3.43	0.00	-219.28	0.00	219.28	2,437.79	1,218.90	2,996.22	1,479.72	10.24	-1.22	0.163
86.00	-36.49	-3.42	0.00	-216.14	0.00	216.14	2,425.09	1,212.55	2,964.90	1,464.25	10.47	-1.23	0.163
87.00	-36.00	-3.40	0.00	-212.72	0.00	212.72	2,411.22	1,205.61	2,930.89	1,447.45	10.73	-1.25	0.162
88.00	-35.51	-3.39	0.00	-209.32	0.00	209.32	2,397.35	1,198.68	2,897.07	1,430.76	10.99	-1.27	0.161
89.00	-35.02	-3.37	0.00	-205.93	0.00	205.93	2,383.48	1,191.74	2,863.46	1,414.15	11.26	-1.28	0.160
90.00	-34.54	-3.36	0.00	-202.56	0.00	202.56	2,369.61	1,184.81	2,830.03	1,397.65	11.53	-1.30	0.160
90.00	-34.54	-3.36	0.00	-202.55	0.00	202.55	1,850.32	925.16	2,262.65	1,117.44	11.53	-1.30	0.200
91.00	-33.64	-3.29	0.00	-199.20	0.00	199.20	1,843.97	921.98	2,241.86	1,107.17	11.81	-1.32	0.198
92.00	-33.29	-3.28	0.00	-195.91	0.00	195.91	1,837.56	918.78	2,221.07	1,096.90	12.08	-1.33	0.197
93.00	-32.95	-3.26	0.00	-192.64	0.00	192.64	1,831.11	915.56	2,200.32	1,086.66	12.36	-1.35	0.195
94.00	-32.61	-3.25	0.00	-189.37	0.00	189.37	1,824.61	912.30	2,179.60	1,076.42	12.65	-1.37	0.194
95.00	-32.26	-3.24	0.00	-186.12	0.00	186.12	1,818.06	909.03	2,158.92	1,066.21	12.94	-1.39	0.192
96.00	-31.92	-3.23	0.00	-182.88	0.00	182.88	1,811.46	905.73	2,138.27	1,056.01	13.23	-1.41	0.191
97.00	-31.58	-3.22	0.00	-179.66	0.00	179.66	1,804.81	902.40	2,117.66	1,045.83	13.53	-1.43	0.189
98.00	-31.24	-3.20	0.00	-176.44	0.00	176.44	1,798.11	899.06	2,097.08	1,035.67	13.83	-1.45	0.188
99.00	-30.90	-3.19	0.00	-173.24	0.00	173.24	1,791.36	895.68	2,076.54	1,025.53	14.14	-1.47	0.186
100.00	-30.56	-3.18	0.00	-170.05	0.00	170.05	1,784.57	892.28	2,056.04	1,015.40	14.45	-1.49	0.185
101.00	-30.23	-3.16	0.00	-166.87	0.00	166.87	1,777.72	888.86	2,035.59	1,005.30	14.76	-1.50	0.183
102.00	-29.52	-3.08	0.00	-163.69	0.00	163.69	1,770.83	885.41	2,015.17	995.22	15.08	-1.52	0.181
103.00	-29.19	-3.07	0.00	-160.61	0.00	160.61	1,763.89	881.94	1,994.79	985.15	15.40	-1.54	0.180
104.00	-28.86	-3.05	0.00	-157.54	0.00	157.54	1,756.90	878.45	1,974.46	975.11	15.72	-1.56	0.178

Site Number: 302501

Code: ANSI/TIA-222-G

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Site Name: Plymouth CT 3, CT

Engineering Number: OAA692457_C3_03

1/11/2017 3:57:31 PM

Customer: AT&T Mobility

Load Case: 1.2D + 1.0Di + 1.0Wi

40 mph with 1.00 in Radial Ice

43 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 : 1.00

Wind Load Factor : 1.00

105.00	-28.53	-3.04	0.00	-154.49	0.00	154.49	1,749.86	874.93	1,954.17	965.09	16.05	-1.58	0.176
106.00	-28.21	-3.03	0.00	-151.45	0.00	151.45	1,742.77	871.38	1,933.93	955.09	16.38	-1.60	0.175
107.00	-27.88	-3.01	0.00	-148.42	0.00	148.42	1,735.63	867.81	1,913.73	945.12	16.72	-1.62	0.173
108.00	-27.56	-3.00	0.00	-145.41	0.00	145.41	1,728.44	864.22	1,893.58	935.17	17.06	-1.64	0.171
109.00	-27.24	-2.98	0.00	-142.41	0.00	142.41	1,721.20	860.60	1,873.48	925.24	17.41	-1.66	0.170
110.00	-26.24	-2.86	0.00	-139.38	0.00	139.38	1,713.92	856.96	1,853.43	915.34	17.76	-1.67	0.168
111.00	-25.94	-2.85	0.00	-136.52	0.00	136.52	1,706.58	853.29	1,833.43	905.46	18.11	-1.69	0.166
112.00	-25.63	-2.83	0.00	-133.67	0.00	133.67	1,699.20	849.60	1,813.48	895.61	18.47	-1.71	0.164
113.00	-25.33	-2.82	0.00	-130.84	0.00	130.84	1,691.77	845.88	1,793.58	885.78	18.83	-1.73	0.163
114.00	-25.03	-2.80	0.00	-128.02	0.00	128.02	1,684.29	842.14	1,773.74	875.98	19.19	-1.75	0.161
115.00	-24.73	-2.79	0.00	-125.22	0.00	125.22	1,676.76	838.38	1,753.95	866.21	19.56	-1.77	0.159
116.00	-24.43	-2.77	0.00	-122.43	0.00	122.43	1,669.18	834.59	1,734.22	856.46	19.93	-1.79	0.158
117.00	-24.13	-2.76	0.00	-119.66	0.00	119.66	1,661.55	830.78	1,714.54	846.75	20.31	-1.80	0.156
118.00	-23.83	-2.74	0.00	-116.90	0.00	116.90	1,653.87	826.94	1,694.92	837.06	20.69	-1.82	0.154
119.00	-23.53	-2.72	0.00	-114.15	0.00	114.15	1,646.15	823.07	1,675.36	827.40	21.07	-1.84	0.152
120.00	-23.24	-2.69	0.00	-111.44	0.00	111.44	1,638.37	819.19	1,655.86	817.77	21.46	-1.86	0.150
121.00	-22.94	-2.66	0.00	-108.75	0.00	108.75	1,628.70	814.35	1,634.57	807.25	21.85	-1.88	0.149
122.00	-22.65	-2.64	0.00	-106.08	0.00	106.08	1,617.35	808.68	1,611.74	795.98	22.25	-1.90	0.147
123.00	-22.35	-2.61	0.00	-103.44	0.00	103.44	1,606.00	803.00	1,589.07	784.78	22.64	-1.91	0.146
124.00	-22.06	-2.59	0.00	-100.83	0.00	100.83	1,594.66	797.33	1,566.57	773.67	23.05	-1.93	0.144
124.99	-21.77	-2.56	0.00	-98.26	0.00	98.26	1,583.38	791.69	1,544.35	762.70	23.45	-1.95	0.143
124.99	-21.77	-2.56	0.00	-98.26	0.00	98.26	1,139.37	569.69	1,117.16	551.72	23.45	-1.95	0.197
125.00	-21.77	-2.56	0.00	-98.25	0.00	98.25	1,139.34	569.67	1,117.08	551.68	23.45	-1.95	0.197
126.00	-21.50	-2.53	0.00	-95.69	0.00	95.69	1,134.60	567.30	1,104.40	545.42	23.86	-1.97	0.194
127.00	-21.23	-2.51	0.00	-93.15	0.00	93.15	1,129.80	564.90	1,091.75	539.17	24.28	-2.00	0.192
128.00	-20.96	-2.49	0.00	-90.64	0.00	90.64	1,124.96	562.48	1,079.11	532.93	24.70	-2.02	0.189
129.00	-20.69	-2.46	0.00	-88.16	0.00	88.16	1,120.07	560.03	1,066.50	526.70	25.13	-2.04	0.186
130.00	-20.42	-2.43	0.00	-85.70	0.00	85.70	1,115.13	557.56	1,053.90	520.48	25.56	-2.06	0.183
131.00	-20.16	-2.41	0.00	-83.26	0.00	83.26	1,110.14	555.07	1,041.34	514.28	25.99	-2.09	0.180
132.00	-19.89	-2.38	0.00	-80.86	0.00	80.86	1,105.10	552.55	1,028.79	508.08	26.43	-2.11	0.177
133.00	-19.63	-2.36	0.00	-78.47	0.00	78.47	1,100.01	550.01	1,016.28	501.90	26.87	-2.13	0.174
134.00	-19.36	-2.33	0.00	-76.12	0.00	76.12	1,094.88	547.44	1,003.79	495.73	27.32	-2.15	0.171
135.00	-19.10	-2.30	0.00	-73.79	0.00	73.79	1,089.69	544.84	991.33	489.58	27.77	-2.17	0.168
136.00	-18.84	-2.28	0.00	-71.48	0.00	71.48	1,084.45	542.23	978.89	483.44	28.23	-2.19	0.165
137.00	-18.58	-2.25	0.00	-69.20	0.00	69.20	1,079.17	539.59	966.49	477.31	28.69	-2.22	0.162
138.00	-18.31	-2.22	0.00	-66.95	0.00	66.95	1,073.84	536.92	954.12	471.20	29.16	-2.24	0.159
139.00	-18.05	-2.20	0.00	-64.73	0.00	64.73	1,068.46	534.23	941.78	465.11	29.63	-2.26	0.156
140.00	-17.80	-2.17	0.00	-62.53	0.00	62.53	1,063.03	531.51	929.48	459.03	30.11	-2.28	0.153
141.00	-17.54	-2.14	0.00	-60.36	0.00	60.36	1,057.55	528.77	917.21	452.97	30.58	-2.30	0.150
142.00	-17.28	-2.11	0.00	-58.22	0.00	58.22	1,052.02	526.01	904.97	446.93	31.07	-2.32	0.147
143.00	-17.02	-2.09	0.00	-56.11	0.00	56.11	1,046.44	523.22	892.77	440.91	31.56	-2.34	0.144
144.00	-16.77	-2.06	0.00	-54.02	0.00	54.02	1,040.82	520.41	880.61	434.90	32.05	-2.36	0.140
145.00	-16.51	-2.03	0.00	-51.96	0.00	51.96	1,035.14	517.57	868.49	428.91	32.54	-2.38	0.137
146.00	-16.26	-2.00	0.00	-49.93	0.00	49.93	1,029.42	514.71	856.41	422.95	33.04	-2.40	0.134
147.00	-16.01	-1.97	0.00	-47.93	0.00	47.93	1,023.64	511.82	844.36	417.00	33.55	-2.41	0.131
148.00	-15.76	-1.94	0.00	-45.96	0.00	45.96	1,017.82	508.91	832.36	411.07	34.05	-2.43	0.127
149.00	-15.50	-1.91	0.00	-44.02	0.00	44.02	1,011.95	505.97	820.40	405.17	34.57	-2.45	0.124
150.00	-13.45	-1.58	0.00	-41.88	0.00	41.88	1,006.03	503.01	808.49	399.28	35.08	-2.47	0.118
151.00	-13.26	-1.57	0.00	-40.30	0.00	40.30	1,000.06	500.03	796.62	393.42	35.60	-2.49	0.116
152.00	-13.06	-1.55	0.00	-38.73	0.00	38.73	994.04	497.02	784.80	387.58	36.12	-2.50	0.113
153.00	-12.87	-1.53	0.00	-37.19	0.00	37.19	987.57	493.78	772.70	381.61	36.65	-2.52	0.110
154.00	-12.68	-1.52	0.00	-35.65	0.00	35.65	978.74	489.37	758.87	374.78	37.18	-2.54	0.108
155.00	-12.49	-1.50	0.00	-34.14	0.00	34.14	969.92	484.96	745.17	368.01	37.71	-2.55	0.106
156.00	-12.29	-1.48	0.00	-32.64	0.00	32.64	961.09	480.55	731.59	361.31	38.25	-2.57	0.103
157.00	-12.11	-1.47	0.00	-31.15	0.00	31.15	952.26	476.13	718.14	354.66	38.79	-2.59	0.101
158.00	-11.92	-1.45	0.00	-29.69	0.00	29.69	943.44	471.72	704.81	348.08	39.33	-2.60	0.098
159.00	-11.73	-1.43	0.00	-28.24	0.00	28.24	934.61	467.31	691.61	341.56	39.88	-2.62	0.095

Site Number: 302501 Code: ANSI/TIA-222-G © 2007 - 2017 by ATC IP LLC. All rights reserved.
 Site Name: Plymouth CT 3, CT Engineering Number: OAA692457_C3_03 1/11/2017 3:57:32 PM
 Customer: AT&T Mobility

Load Case: 1.2D + 1.0Di + 1.0Wi	40 mph with 1.00 in Radial Ice	43 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 : 1.00
Wind Load Factor : 1.00		

160.00	-11.54	-1.42	0.00	-26.80	0.00	26.80	925.79	462.89	678.53	335.10	40.43	-2.63	0.092
161.00	-11.35	-1.40	0.00	-25.39	0.00	25.39	916.96	458.48	665.57	328.70	40.98	-2.65	0.090
162.00	-11.17	-1.38	0.00	-23.99	0.00	23.99	908.13	454.07	652.74	322.37	41.53	-2.66	0.087
163.00	-10.99	-1.37	0.00	-22.61	0.00	22.61	899.31	449.65	640.04	316.09	42.09	-2.67	0.084
164.00	-10.80	-1.35	0.00	-21.24	0.00	21.24	890.48	445.24	627.46	309.88	42.65	-2.69	0.081
165.00	-10.62	-1.33	0.00	-19.89	0.00	19.89	881.65	440.83	615.01	303.73	43.22	-2.70	0.078
166.00	-10.44	-1.31	0.00	-18.56	0.00	18.56	872.83	436.41	602.68	297.64	43.78	-2.71	0.074
167.00	-10.26	-1.30	0.00	-17.25	0.00	17.25	864.00	432.00	590.47	291.61	44.35	-2.72	0.071
168.00	-10.08	-1.28	0.00	-15.95	0.00	15.95	855.17	427.59	578.39	285.65	44.93	-2.74	0.068
169.00	-9.90	-1.26	0.00	-14.67	0.00	14.67	846.35	423.17	566.44	279.74	45.50	-2.75	0.064
170.00	-9.72	-1.24	0.00	-13.41	0.00	13.41	837.52	418.76	554.61	273.90	46.08	-2.76	0.061
171.00	-8.93	-1.12	0.00	-12.17	0.00	12.17	828.70	414.35	542.90	268.12	46.65	-2.77	0.056
172.00	-8.79	-1.10	0.00	-11.05	0.00	11.05	819.87	409.93	531.32	262.40	47.24	-2.78	0.053
173.00	-8.65	-1.08	0.00	-9.95	0.00	9.95	811.04	405.52	519.86	256.74	47.82	-2.78	0.049
174.00	-8.51	-1.07	0.00	-8.87	0.00	8.87	802.22	401.11	508.53	251.15	48.40	-2.79	0.046
175.00	-8.38	-1.05	0.00	-7.80	0.00	7.80	793.39	396.70	497.33	245.61	48.99	-2.80	0.042
176.00	-8.00	-1.00	0.00	-6.75	0.00	6.75	784.56	392.28	486.25	240.14	49.57	-2.81	0.038
177.00	-7.88	-0.98	0.00	-5.75	0.00	5.75	775.74	387.87	475.29	234.73	50.16	-2.81	0.035
178.00	-7.77	-0.97	0.00	-4.77	0.00	4.77	766.91	383.46	464.46	229.38	50.75	-2.82	0.031
179.00	-7.65	-0.95	0.00	-3.80	0.00	3.80	758.08	379.04	453.75	224.09	51.34	-2.82	0.027
180.00	0.00	-0.58	0.00	-2.85	0.00	2.85	749.26	374.63	443.17	218.87	51.93	-2.82	0.013

Site Number: 302501 Code: ANSI/TIA-222-G © 2007 - 2017 by ATC IP LLC. All rights reserved.
 Site Name: Plymouth CT 3, CT Engineering Number: OAA692457_C3_03 1/11/2017 3:57:32 PM
 Customer: AT&T Mobility

Load Case: 1.0D + 1.0W Serviceability 60 mph 41 Iterations
 Gust Response Factor : 1.10 Wind Importance Factor : 1.00
 Dead Load Factor : 1.00
 Wind Load Factor : 1.00

Applied Segment Forces Summary

Seg Elev (ft)	Description	Shaft Forces		Discrete Forces			Linear Forces		Sum of Forces				
		Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Torsion MY (lb-ft)	Moment MZ (lb)
0.00		12.8	0.0					0.0	0.0	12.8	0.0	0.0	0.0
1.00		25.5	178.9					0.0	0.0	25.5	178.9	0.0	0.0
2.00		25.4	178.2					0.0	0.0	25.4	178.2	0.0	0.0
3.00		25.3	177.5					0.0	0.0	25.3	177.5	0.0	0.0
4.00		25.2	176.8					0.0	0.0	25.2	176.8	0.0	0.0
5.00		25.1	176.1					0.0	0.0	25.1	176.1	0.0	0.0
6.00		25.0	175.4					0.0	0.0	25.0	175.4	0.0	0.0
7.00		24.9	174.7					0.0	0.0	24.9	174.7	0.0	0.0
8.00		24.8	174.0					0.0	28.0	24.8	202.0	0.0	0.0
9.00		24.7	173.3					0.0	28.0	24.7	201.3	0.0	0.0
10.00		24.6	172.6					0.0	28.0	24.6	200.6	0.0	0.0
11.00		24.5	171.9					0.0	28.0	24.5	199.9	0.0	0.0
12.00		24.4	171.2					0.0	28.0	24.4	199.2	0.0	0.0
13.00		24.3	170.5					0.0	28.0	24.3	198.5	0.0	0.0
14.00		24.2	169.8					0.0	28.0	24.2	197.8	0.0	0.0
15.00		24.1	169.1					0.0	28.0	24.1	197.1	0.0	0.0
16.00		24.0	168.4					0.0	28.0	24.0	196.4	0.0	0.0
17.00		23.9	167.7					0.0	28.0	23.9	195.7	0.0	0.0
18.00		23.8	167.0					0.0	28.0	23.8	195.0	0.0	0.0
19.00		23.7	166.3					0.0	28.0	23.7	194.3	0.0	0.0
20.00		23.6	165.6					0.0	28.0	23.6	193.6	0.0	0.0
21.00		23.5	164.9					0.0	28.0	23.5	192.9	0.0	0.0
22.00		23.4	164.2					0.0	28.0	23.4	192.2	0.0	0.0
23.00		23.3	163.5					0.0	28.0	23.3	191.6	0.0	0.0
24.00		23.2	162.8					0.0	28.0	23.2	190.9	0.0	0.0
25.00		23.1	162.1					0.0	28.0	23.1	190.2	0.0	0.0
26.00		23.0	161.4					0.0	28.0	23.0	189.5	0.0	0.0
27.00		22.9	160.7					0.0	28.0	22.9	188.8	0.0	0.0
28.00		22.8	160.0					0.0	28.0	22.8	188.1	0.0	0.0
29.00		22.7	159.3					0.0	28.0	22.7	187.4	0.0	0.0
30.00		22.7	158.6					0.0	28.0	22.7	186.7	0.0	0.0
31.00		22.8	157.9					0.0	28.0	22.8	186.0	0.0	0.0
32.00		22.9	157.2					0.0	28.0	22.9	185.3	0.0	0.0
33.00		23.0	156.5					0.0	28.0	23.0	184.6	0.0	0.0
34.00		23.1	155.8					0.0	28.0	23.1	183.9	0.0	0.0
35.00		23.1	155.2					0.0	28.0	23.1	183.2	0.0	0.0
36.00		23.2	154.5					0.0	28.0	23.2	182.5	0.0	0.0
37.00		23.3	153.8					0.0	28.0	23.3	181.8	0.0	0.0
38.00		23.4	153.1					0.0	28.0	23.4	181.1	0.0	0.0
39.00		23.4	152.4					0.0	28.0	23.4	180.4	0.0	0.0
40.00		23.5	151.7					0.0	28.0	23.5	179.7	0.0	0.0
41.00		23.6	151.0					0.0	28.0	23.6	179.0	0.0	0.0
42.00		15.7	150.3					0.0	28.0	15.7	178.3	0.0	0.0
42.33	Bot - Section 2	12.0	50.1					0.0	9.4	12.0	59.4	0.0	0.0
43.00		20.1	192.5					0.0	18.7	20.1	211.2	0.0	0.0
44.00		24.2	288.0					0.0	28.0	24.2	316.0	0.0	0.0
45.00		24.2	286.7					0.0	28.0	24.2	314.7	0.0	0.0
46.00		24.2	285.4					0.0	28.0	24.2	313.4	0.0	0.0

Load Case: 1.0D + 1.0W			Serviceability 60 mph				41 Iterations						
Gust Response Factor : 1.10							Wind Importance Factor : 1.00						
Dead Load Factor : 1.00													
Wind Load Factor : 1.00													
47.00	Top - Section 1	24.3	284.0				0.0	28.0	24.3	312.0	0.0	0.0	
48.00		24.3	282.7				0.0	28.0	24.3	310.7	0.0	0.0	
49.00		24.3	136.0				0.0	28.0	24.3	164.0	0.0	0.0	
50.00		24.4	135.3				0.0	28.0	24.4	163.3	0.0	0.0	
51.00		24.4	134.7				0.0	28.0	24.4	162.7	0.0	0.0	
52.00		24.4	134.0				0.0	28.0	24.4	162.1	0.0	0.0	
53.00		24.4	133.4				0.0	28.0	24.4	161.4	0.0	0.0	
54.00		24.4	132.8				0.0	28.0	24.4	160.8	0.0	0.0	
55.00		24.5	132.1				0.0	28.0	24.5	160.1	0.0	0.0	
56.00		24.5	131.5				0.0	28.0	24.5	159.5	0.0	0.0	
57.00		24.5	130.8				0.0	28.0	24.5	158.9	0.0	0.0	
58.00		24.5	130.2				0.0	28.0	24.5	158.2	0.0	0.0	
59.00		24.5	129.6				0.0	28.0	24.5	157.6	0.0	0.0	
60.00		24.5	128.9				0.0	28.0	24.5	156.9	0.0	0.0	
61.00		24.5	128.3				0.0	28.0	24.5	156.3	0.0	0.0	
62.00		24.5	127.6				0.0	28.0	24.5	155.7	0.0	0.0	
63.00		24.4	127.0				0.0	28.0	24.4	155.0	0.0	0.0	
64.00		24.4	126.4				0.0	28.0	24.4	154.4	0.0	0.0	
65.00		24.4	125.7				0.0	28.0	24.4	153.7	0.0	0.0	
66.00		24.4	125.1				0.0	28.0	24.4	153.1	0.0	0.0	
67.00		24.4	124.4				0.0	28.0	24.4	152.5	0.0	0.0	
68.00		24.4	123.8				0.0	28.0	24.4	151.8	0.0	0.0	
69.00		24.3	123.2				0.0	28.0	24.3	151.2	0.0	0.0	
70.00		24.3	122.5				0.0	28.0	24.3	150.5	0.0	0.0	
71.00		24.3	121.9				0.0	28.0	24.3	149.9	0.0	0.0	
72.00		24.3	121.2				0.0	28.0	24.3	149.3	0.0	0.0	
73.00		24.2	120.6				0.0	28.0	24.2	148.6	0.0	0.0	
74.00		24.2	120.0				0.0	28.0	24.2	148.0	0.0	0.0	
75.00		24.2	119.3				0.0	28.0	24.2	147.3	0.0	0.0	
76.00		24.1	118.7				0.0	28.0	24.1	146.7	0.0	0.0	
77.00	24.1	118.0				0.0	28.0	24.1	146.1	0.0	0.0		
78.00	24.0	117.4				0.0	28.0	24.0	145.4	0.0	0.0		
79.00	24.0	116.8				0.0	28.0	24.0	144.8	0.0	0.0		
80.00	23.9	116.1				0.0	28.0	23.9	144.1	0.0	0.0		
81.00	23.9	115.5				0.0	28.0	23.9	143.5	0.0	0.0		
82.00	23.9	114.8				0.0	28.0	23.9	142.9	0.0	0.0		
83.00	23.8	114.2				0.0	28.0	23.8	142.2	0.0	0.0		
84.00	23.8	113.6				0.0	28.0	23.8	141.6	0.0	0.0		
85.00	12.9	112.9				0.0	28.0	12.9	140.9	0.0	0.0		
85.08	Bot - Section 3	12.0	9.5				0.0	2.4	12.0	11.8	0.0	0.0	
86.00		23.1	188.7				0.0	25.7	23.1	214.3	0.0	0.0	
87.00		24.0	204.9				0.0	28.0	24.0	232.9	0.0	0.0	
88.00		24.0	203.7				0.0	28.0	24.0	231.7	0.0	0.0	
89.00		23.9	202.6				0.0	28.0	23.9	230.6	0.0	0.0	
90.00		12.0	201.4				0.0	28.0	12.0	229.4	0.0	0.0	
90.00	Top - Section 2	11.9	0.2				0.0	0.0	11.9	0.2	0.0	0.0	
91.00	Appertunance(s)	23.8	91.1	71.6	0.0	0.0	134.0	0.0	28.0	95.4	253.1	0.0	0.0
92.00		23.7	90.6				0.0	27.7	23.7	118.3	0.0	0.0	
93.00		23.7	90.1				0.0	27.7	23.7	117.8	0.0	0.0	
94.00		23.6	89.6				0.0	27.7	23.6	117.3	0.0	0.0	
95.00		23.5	89.1				0.0	27.7	23.5	116.8	0.0	0.0	
96.00		23.5	88.5				0.0	27.7	23.5	116.2	0.0	0.0	
97.00		23.4	88.0				0.0	27.7	23.4	115.7	0.0	0.0	
98.00		23.3	87.5				0.0	27.7	23.3	115.2	0.0	0.0	
99.00		23.3	87.0				0.0	27.7	23.3	114.7	0.0	0.0	
100.00		23.2	86.5				0.0	27.7	23.2	114.1	0.0	0.0	
101.00		23.1	85.9				0.0	27.7	23.1	113.6	0.0	0.0	

Site Number: 302501

Code: ANSI/TIA-222-G

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Site Name: Plymouth CT 3, CT

Engineering Number: OAA692457_C3_03

1/11/2017 3:57:42 PM

Customer: AT&T Mobility

Load Case: 1.0D + 1.0W

Serviceability 60 mph

41 Iterations

Gust Response Factor : 1.10

Wind Importance Factor : 1.00

Dead Load Factor : 1.00

Wind Load Factor : 1.00

102.00	Appertunance(s)	23.0	85.4	73.8	0.0	13.5	159.0	0.0	27.7	96.9	272.1	0.0	0.0
103.00		23.0	84.9					0.0	27.5	23.0	112.4	0.0	0.0
104.00		22.9	84.4					0.0	27.5	22.9	111.9	0.0	0.0
105.00		22.8	83.8					0.0	27.5	22.8	111.4	0.0	0.0
106.00		22.7	83.3					0.0	27.5	22.7	110.8	0.0	0.0
107.00		22.7	82.8					0.0	27.5	22.7	110.3	0.0	0.0
108.00		22.6	82.3					0.0	27.5	22.6	109.8	0.0	0.0
109.00		22.5	81.7					0.0	27.5	22.5	109.3	0.0	0.0
110.00	Appertunance(s)	22.4	81.2	126.8	0.0	47.6	229.2	0.0	27.5	149.2	338.0	0.0	0.0
111.00		22.3	80.7					0.0	27.2	22.3	107.8	0.0	0.0
112.00		22.2	80.2					0.0	27.2	22.2	107.3	0.0	0.0
113.00		22.1	79.6					0.0	27.2	22.1	106.8	0.0	0.0
114.00		22.1	79.1					0.0	27.2	22.1	106.3	0.0	0.0
115.00		22.0	78.6					0.0	27.2	22.0	105.8	0.0	0.0
116.00		21.9	78.1					0.0	27.2	21.9	105.2	0.0	0.0
117.00		21.8	77.5					0.0	27.2	21.8	104.7	0.0	0.0
118.00		23.8	77.0					0.0	27.2	23.8	104.2	0.0	0.0
119.00		25.9	76.5					5.2	27.2	31.1	103.7	0.0	0.0
120.00		25.8	76.0					5.2	27.2	31.0	103.1	0.0	0.0
121.00		25.7	75.4					5.2	27.2	30.9	102.6	0.0	0.0
122.00		25.6	74.9					5.3	27.2	30.8	102.1	0.0	0.0
123.00		25.4	74.4					5.3	27.2	30.7	101.6	0.0	0.0
124.00		25.3	73.9					5.3	27.2	30.5	101.0	0.0	0.0
124.99	Top - Section 3	12.6	72.9					5.3	27.0	17.9	99.9	0.0	0.0
125.00		12.6	0.3					0.0	0.2	12.7	0.5	0.0	0.0
126.00		25.1	56.8					5.3	27.2	30.4	84.0	0.0	0.0
127.00		25.0	56.4					5.3	27.2	30.3	83.5	0.0	0.0
128.00		24.8	56.0					5.3	27.2	30.2	83.1	0.0	0.0
129.00		24.7	55.6					5.3	27.2	30.0	82.7	0.0	0.0
130.00		24.6	55.2					5.3	27.2	29.9	82.3	0.0	0.0
131.00		24.5	54.8					5.4	27.2	29.8	81.9	0.0	0.0
132.00		24.3	54.4					5.4	27.2	29.7	81.5	0.0	0.0
133.00		24.2	53.9					5.4	27.2	29.6	81.1	0.0	0.0
134.00		24.1	53.5					5.4	27.2	29.5	80.7	0.0	0.0
135.00		23.9	53.1					5.4	27.2	29.3	80.3	0.0	0.0
136.00		23.8	52.7					5.4	27.2	29.2	79.9	0.0	0.0
137.00		23.7	52.3					5.4	27.2	29.1	79.5	0.0	0.0
138.00		23.5	51.9					5.4	27.2	29.0	79.1	0.0	0.0
139.00		23.4	51.5					5.5	27.2	28.9	78.7	0.0	0.0
140.00		23.3	51.1					5.5	27.2	28.7	78.2	0.0	0.0
141.00		23.1	50.7					5.5	27.2	28.6	77.8	0.0	0.0
142.00		23.0	50.3					5.5	27.2	28.5	77.4	0.0	0.0
143.00		22.9	49.9					5.5	27.2	28.3	77.0	0.0	0.0
144.00		22.7	49.5					5.5	27.2	28.2	76.6	0.0	0.0
145.00		22.6	49.1					5.5	27.2	28.1	76.2	0.0	0.0
146.00		22.4	48.6					5.5	27.2	28.0	75.8	0.0	0.0
147.00		22.3	48.2					5.5	27.2	27.8	75.4	0.0	0.0
148.00		22.1	47.8					5.6	27.2	27.7	75.0	0.0	0.0
149.00		22.0	47.4					5.6	27.2	27.6	74.6	0.0	0.0
150.00	Appertunance(s)	20.0	47.0	228.4	0.0	177.3	449.0	5.6	27.2	254.0	523.2	0.0	0.0
151.00		18.1	46.6					0.0	21.8	18.1	68.4	0.0	0.0
152.00		18.0	46.2					0.0	21.8	18.0	68.0	0.0	0.0
153.00		17.8	45.8					0.0	21.8	17.8	67.6	0.0	0.0
154.00		17.7	45.4					0.0	21.8	17.7	67.2	0.0	0.0
155.00		17.6	45.0					0.0	21.8	17.6	66.7	0.0	0.0
156.00		17.5	44.6					0.0	21.8	17.5	66.3	0.0	0.0
157.00		17.3	44.2					0.0	21.8	17.3	65.9	0.0	0.0

Site Number: 302501	Code: ANSI/TIA-222-G	© 2007 - 2017 by ATC IP LLC. All rights reserved.
Site Name: Plymouth CT 3, CT	Engineering Number: OAA692457_C3_03	1/11/2017 3:57:42 PM
Customer: AT&T Mobility		

Load Case: 1.0D + 1.0W			Serviceability 60 mph					41 Iterations					
Gust Response Factor : 1.10								Wind Importance Factor : 1.00					
Dead Load Factor : 1.00													
Wind Load Factor : 1.00													
158.00		17.2	43.8					0.0	21.8	17.2	65.5	0.0	0.0
159.00		17.1	43.3					0.0	21.8	17.1	65.1	0.0	0.0
160.00		17.0	42.9					0.0	21.8	17.0	64.7	0.0	0.0
161.00		16.8	42.5					0.0	21.8	16.8	64.3	0.0	0.0
162.00		16.7	42.1					0.0	21.8	16.7	63.9	0.0	0.0
163.00		16.6	41.7					0.0	21.8	16.6	63.5	0.0	0.0
164.00		16.4	41.3					0.0	21.8	16.4	63.1	0.0	0.0
165.00		16.3	40.9					0.0	21.8	16.3	62.7	0.0	0.0
166.00		16.2	40.5					0.0	21.8	16.2	62.3	0.0	0.0
167.00		16.0	40.1					0.0	21.8	16.0	61.9	0.0	0.0
168.00		15.9	39.7					0.0	21.8	15.9	61.5	0.0	0.0
169.00		15.8	39.3					0.0	21.8	15.8	61.0	0.0	0.0
170.00		15.6	38.9					0.0	21.8	15.6	60.6	0.0	0.0
171.00	Appertunance(s)	15.5	38.5	137.7	0.0	0.0	79.2	0.0	21.8	153.1	139.4	0.0	0.0
172.00		15.3	38.1					0.0	16.8	15.3	54.9	0.0	0.0
173.00		15.2	37.6					0.0	16.8	15.2	54.5	0.0	0.0
174.00		15.1	37.2					0.0	16.8	15.1	54.1	0.0	0.0
175.00		14.9	36.8					0.0	16.8	14.9	53.7	0.0	0.0
176.00	Appertunance(s)	14.8	36.4	38.2	0.0	0.0	47.2	0.0	16.8	53.0	100.5	0.0	0.0
177.00		14.7	36.0					0.0	16.4	14.7	52.4	0.0	0.0
178.00		14.5	35.6					0.0	16.4	14.5	52.0	0.0	0.0
179.00		14.4	35.2					0.0	16.4	14.4	51.6	0.0	0.0
180.00		7.1	34.8					0.0	16.4	7.1	51.2	0.0	0.0
Totals:										4,910.60	25,263.7	0.00	0.00

Site Number: 302501

Code: ANSI/TIA-222-G

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Site Name: Plymouth CT 3, CT

Engineering Number: OAA692457_C3_03

1/11/2017 3:57:42 PM

Customer: AT&T Mobility

Load Case: 1.0D + 1.0W

Serviceability 60 mph

41 Iterations

Gust Response Factor : 1.10

Wind Importance Factor : 1.00

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	-27.65	-5.66	0.00	-641.46	0.00	641.46	3,477.38	1,738.69	6,258.10	3,090.64	0.00	0.00	0.216
1.00	-27.47	-5.64	0.00	-635.80	0.00	635.80	3,470.08	1,735.04	6,220.43	3,072.04	0.00	-0.01	0.215
2.00	-27.29	-5.62	0.00	-630.15	0.00	630.15	3,462.74	1,731.37	6,182.78	3,053.44	0.01	-0.03	0.214
3.00	-27.11	-5.61	0.00	-624.53	0.00	624.53	3,455.35	1,727.67	6,145.14	3,034.85	0.01	-0.04	0.214
4.00	-26.94	-5.59	0.00	-618.92	0.00	618.92	3,447.91	1,723.95	6,107.52	3,016.27	0.02	-0.06	0.213
5.00	-26.76	-5.57	0.00	-613.34	0.00	613.34	3,440.42	1,720.21	6,069.92	2,997.70	0.04	-0.07	0.212
6.00	-26.58	-5.55	0.00	-607.77	0.00	607.77	3,432.88	1,716.44	6,032.34	2,979.14	0.05	-0.09	0.212
7.00	-26.41	-5.53	0.00	-602.22	0.00	602.22	3,425.29	1,712.64	5,994.78	2,960.59	0.07	-0.10	0.211
8.00	-26.20	-5.51	0.00	-596.69	0.00	596.69	3,417.65	1,708.83	5,957.24	2,942.06	0.10	-0.11	0.210
9.00	-26.00	-5.49	0.00	-591.17	0.00	591.17	3,409.97	1,704.98	5,919.72	2,923.53	0.12	-0.13	0.210
10.00	-25.80	-5.48	0.00	-585.68	0.00	585.68	3,402.23	1,701.12	5,882.23	2,905.01	0.15	-0.14	0.209
11.00	-25.60	-5.46	0.00	-580.20	0.00	580.20	3,394.45	1,697.22	5,844.77	2,886.51	0.18	-0.16	0.209
12.00	-25.40	-5.44	0.00	-574.75	0.00	574.75	3,386.61	1,693.31	5,807.33	2,868.02	0.22	-0.17	0.208
13.00	-25.20	-5.42	0.00	-569.31	0.00	569.31	3,378.73	1,689.37	5,769.91	2,849.54	0.26	-0.19	0.207
14.00	-25.00	-5.40	0.00	-563.89	0.00	563.89	3,370.80	1,685.40	5,732.53	2,831.08	0.30	-0.20	0.207
15.00	-24.80	-5.38	0.00	-558.49	0.00	558.49	3,362.82	1,681.41	5,695.17	2,812.63	0.34	-0.22	0.206
16.00	-24.60	-5.36	0.00	-553.10	0.00	553.10	3,354.79	1,677.40	5,657.85	2,794.20	0.39	-0.23	0.205
17.00	-24.40	-5.35	0.00	-547.74	0.00	547.74	3,346.72	1,673.36	5,620.56	2,775.78	0.44	-0.25	0.205
18.00	-24.21	-5.33	0.00	-542.39	0.00	542.39	3,338.59	1,669.29	5,583.30	2,757.38	0.49	-0.26	0.204
19.00	-24.01	-5.31	0.00	-537.06	0.00	537.06	3,330.41	1,665.21	5,546.07	2,738.99	0.55	-0.28	0.203
20.00	-23.82	-5.29	0.00	-531.75	0.00	531.75	3,322.19	1,661.09	5,508.88	2,720.63	0.61	-0.29	0.203
21.00	-23.62	-5.27	0.00	-526.46	0.00	526.46	3,313.92	1,656.96	5,471.72	2,702.28	0.67	-0.31	0.202
22.00	-23.43	-5.25	0.00	-521.19	0.00	521.19	3,305.59	1,652.80	5,434.60	2,683.94	0.74	-0.32	0.201
23.00	-23.24	-5.24	0.00	-515.93	0.00	515.93	3,297.22	1,648.61	5,397.51	2,665.63	0.80	-0.34	0.201
24.00	-23.04	-5.22	0.00	-510.70	0.00	510.70	3,288.80	1,644.40	5,360.47	2,647.33	0.88	-0.35	0.200
25.00	-22.85	-5.20	0.00	-505.48	0.00	505.48	3,280.33	1,640.17	5,323.46	2,629.06	0.95	-0.37	0.199
26.00	-22.66	-5.18	0.00	-500.28	0.00	500.28	3,271.81	1,635.91	5,286.50	2,610.80	1.03	-0.38	0.199
27.00	-22.47	-5.16	0.00	-495.10	0.00	495.10	3,263.25	1,631.62	5,249.58	2,592.57	1.11	-0.40	0.198
28.00	-22.28	-5.15	0.00	-489.94	0.00	489.94	3,254.63	1,627.32	5,212.70	2,574.36	1.20	-0.41	0.197
29.00	-22.09	-5.13	0.00	-484.79	0.00	484.79	3,245.97	1,622.98	5,175.86	2,556.16	1.29	-0.43	0.196
30.00	-21.91	-5.11	0.00	-479.66	0.00	479.66	3,237.25	1,618.63	5,139.07	2,537.99	1.38	-0.44	0.196
31.00	-21.72	-5.09	0.00	-474.55	0.00	474.55	3,228.49	1,614.24	5,102.33	2,519.85	1.47	-0.46	0.195
32.00	-21.53	-5.07	0.00	-469.46	0.00	469.46	3,219.68	1,609.84	5,065.63	2,501.72	1.57	-0.47	0.194
33.00	-21.35	-5.05	0.00	-464.39	0.00	464.39	3,210.82	1,605.41	5,028.98	2,483.62	1.67	-0.49	0.194
34.00	-21.16	-5.03	0.00	-459.34	0.00	459.34	3,201.91	1,600.95	4,992.38	2,465.55	1.77	-0.51	0.193
35.00	-20.98	-5.02	0.00	-454.30	0.00	454.30	3,192.95	1,596.47	4,955.83	2,447.50	1.88	-0.52	0.192
36.00	-20.79	-5.00	0.00	-449.29	0.00	449.29	3,183.94	1,591.97	4,919.33	2,429.47	1.99	-0.54	0.191
37.00	-20.61	-4.98	0.00	-444.29	0.00	444.29	3,174.88	1,587.44	4,882.88	2,411.47	2.11	-0.55	0.191
38.00	-20.43	-4.96	0.00	-439.32	0.00	439.32	3,165.78	1,582.89	4,846.48	2,393.50	2.22	-0.57	0.190
39.00	-20.25	-4.94	0.00	-434.36	0.00	434.36	3,156.62	1,578.31	4,810.14	2,375.55	2.35	-0.58	0.189
40.00	-20.07	-4.92	0.00	-429.42	0.00	429.42	3,147.42	1,573.71	4,773.86	2,357.63	2.47	-0.60	0.189
41.00	-19.89	-4.90	0.00	-424.50	0.00	424.50	3,138.17	1,569.08	4,737.63	2,339.74	2.60	-0.62	0.188
42.00	-19.71	-4.88	0.00	-419.61	0.00	419.61	3,128.87	1,564.43	4,701.46	2,321.87	2.73	-0.63	0.187
42.33	-19.65	-4.87	0.00	-417.97	0.00	417.97	3,125.75	1,562.87	4,689.38	2,315.91	2.77	-0.64	0.187
43.00	-19.44	-4.86	0.00	-414.73	0.00	414.73	3,119.52	1,559.76	4,665.35	2,304.04	2.86	-0.65	0.186
44.00	-19.12	-4.83	0.00	-409.87	0.00	409.87	3,110.12	1,555.06	4,629.29	2,286.23	3.00	-0.66	0.185
45.00	-18.80	-4.81	0.00	-405.04	0.00	405.04	3,100.67	1,550.33	4,593.30	2,268.46	3.14	-0.68	0.185
46.00	-18.49	-4.79	0.00	-400.23	0.00	400.23	3,091.17	1,545.59	4,557.37	2,250.71	3.28	-0.69	0.184
47.00	-18.18	-4.76	0.00	-395.44	0.00	395.44	3,081.63	1,540.81	4,521.50	2,233.00	3.43	-0.71	0.183
48.00	-17.86	-4.74	0.00	-390.68	0.00	390.68	2,760.51	1,380.25	4,116.88	2,033.17	3.58	-0.73	0.199
49.00	-17.70	-4.72	0.00	-385.94	0.00	385.94	2,752.72	1,376.36	4,085.80	2,017.82	3.73	-0.74	0.198

Site Number: 302501

Code: ANSI/TIA-222-G

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Site Name: Plymouth CT 3, CT

Engineering Number: OAA692457_C3_03

1/11/2017 3:57:43 PM

Customer: AT&T Mobility

Load Case: 1.0D + 1.0W

Serviceability 60 mph

41 Iterations

Gust Response Factor : 1.10

Wind Importance Factor : 1.00

Dead Load Factor : 1.00

Wind Load Factor : 1.00

50.00	-17.54	-4.70	0.00	-381.22	0.00	381.22	2,744.89	1,372.44	4,054.76	2,002.49	3.89	-0.76	0.197
51.00	-17.37	-4.68	0.00	-376.52	0.00	376.52	2,737.01	1,368.50	4,023.76	1,987.18	4.05	-0.78	0.196
52.00	-17.21	-4.66	0.00	-371.84	0.00	371.84	2,729.07	1,364.54	3,992.80	1,971.89	4.22	-0.79	0.195
53.00	-17.05	-4.63	0.00	-367.19	0.00	367.19	2,721.09	1,360.55	3,961.88	1,956.62	4.38	-0.81	0.194
54.00	-16.88	-4.61	0.00	-362.55	0.00	362.55	2,713.06	1,356.53	3,931.00	1,941.37	4.56	-0.83	0.193
55.00	-16.72	-4.59	0.00	-357.94	0.00	357.94	2,704.99	1,352.49	3,900.16	1,926.14	4.73	-0.84	0.192
56.00	-16.56	-4.57	0.00	-353.35	0.00	353.35	2,696.86	1,348.43	3,869.37	1,910.94	4.91	-0.86	0.191
57.00	-16.40	-4.55	0.00	-348.78	0.00	348.78	2,688.68	1,344.34	3,838.62	1,895.75	5.09	-0.88	0.190
58.00	-16.24	-4.52	0.00	-344.24	0.00	344.24	2,680.46	1,340.23	3,807.92	1,880.59	5.28	-0.89	0.189
59.00	-16.09	-4.50	0.00	-339.71	0.00	339.71	2,672.18	1,336.09	3,777.27	1,865.45	5.46	-0.91	0.188
60.00	-15.93	-4.48	0.00	-335.21	0.00	335.21	2,663.86	1,331.93	3,746.66	1,850.34	5.66	-0.93	0.187
61.00	-15.77	-4.46	0.00	-330.73	0.00	330.73	2,655.49	1,327.74	3,716.11	1,835.24	5.85	-0.94	0.186
62.00	-15.61	-4.43	0.00	-326.28	0.00	326.28	2,647.07	1,323.53	3,685.60	1,820.18	6.05	-0.96	0.185
63.00	-15.46	-4.41	0.00	-321.84	0.00	321.84	2,638.60	1,319.30	3,655.15	1,805.14	6.26	-0.98	0.184
64.00	-15.30	-4.39	0.00	-317.43	0.00	317.43	2,630.08	1,315.04	3,624.74	1,790.12	6.46	-0.99	0.183
65.00	-15.15	-4.37	0.00	-313.04	0.00	313.04	2,621.51	1,310.76	3,594.39	1,775.14	6.67	-1.01	0.182
66.00	-14.99	-4.34	0.00	-308.67	0.00	308.67	2,612.90	1,306.45	3,564.10	1,760.18	6.89	-1.03	0.181
67.00	-14.84	-4.32	0.00	-304.33	0.00	304.33	2,604.23	1,302.11	3,533.86	1,745.24	7.10	-1.04	0.180
68.00	-14.69	-4.30	0.00	-300.01	0.00	300.01	2,595.52	1,297.76	3,503.68	1,730.34	7.32	-1.06	0.179
69.00	-14.54	-4.28	0.00	-295.71	0.00	295.71	2,586.75	1,293.38	3,473.55	1,715.46	7.55	-1.08	0.178
70.00	-14.38	-4.25	0.00	-291.43	0.00	291.43	2,577.94	1,288.97	3,443.49	1,700.61	7.77	-1.10	0.177
71.00	-14.23	-4.23	0.00	-287.18	0.00	287.18	2,569.08	1,284.54	3,413.48	1,685.79	8.01	-1.11	0.176
72.00	-14.08	-4.21	0.00	-282.95	0.00	282.95	2,560.17	1,280.08	3,383.54	1,671.00	8.24	-1.13	0.175
73.00	-13.93	-4.18	0.00	-278.75	0.00	278.75	2,551.21	1,275.60	3,353.65	1,656.24	8.48	-1.15	0.174
74.00	-13.79	-4.16	0.00	-274.56	0.00	274.56	2,542.20	1,271.10	3,323.83	1,641.51	8.72	-1.16	0.173
75.00	-13.64	-4.14	0.00	-270.40	0.00	270.40	2,533.14	1,266.57	3,294.07	1,626.82	8.97	-1.18	0.172
76.00	-13.49	-4.11	0.00	-266.26	0.00	266.26	2,524.04	1,262.02	3,264.38	1,612.15	9.22	-1.20	0.171
77.00	-13.34	-4.09	0.00	-262.15	0.00	262.15	2,514.88	1,257.44	3,234.75	1,597.52	9.47	-1.22	0.169
78.00	-13.20	-4.07	0.00	-258.06	0.00	258.06	2,505.68	1,252.84	3,205.19	1,582.92	9.73	-1.23	0.168
79.00	-13.05	-4.05	0.00	-253.99	0.00	253.99	2,496.42	1,248.21	3,175.70	1,568.36	9.99	-1.25	0.167
80.00	-12.91	-4.02	0.00	-249.94	0.00	249.94	2,487.12	1,243.56	3,146.28	1,553.83	10.25	-1.27	0.166
81.00	-12.76	-4.00	0.00	-245.92	0.00	245.92	2,477.77	1,238.89	3,116.92	1,539.33	10.52	-1.28	0.165
82.00	-12.62	-3.98	0.00	-241.92	0.00	241.92	2,468.37	1,234.19	3,087.64	1,524.87	10.79	-1.30	0.164
83.00	-12.48	-3.95	0.00	-237.95	0.00	237.95	2,458.92	1,229.46	3,058.43	1,510.45	11.06	-1.32	0.163
84.00	-12.34	-3.93	0.00	-234.00	0.00	234.00	2,449.43	1,224.71	3,029.30	1,496.06	11.34	-1.34	0.161
85.00	-12.19	-3.91	0.00	-230.07	0.00	230.07	2,438.96	1,219.48	2,999.10	1,481.15	11.62	-1.35	0.160
85.08	-12.18	-3.90	0.00	-229.74	0.00	229.74	2,437.79	1,218.90	2,996.22	1,479.72	11.65	-1.35	0.160
86.00	-11.97	-3.88	0.00	-226.16	0.00	226.16	2,425.09	1,212.55	2,964.90	1,464.25	11.91	-1.37	0.159
87.00	-11.73	-3.85	0.00	-222.28	0.00	222.28	2,411.22	1,205.61	2,930.89	1,447.45	12.20	-1.39	0.158
88.00	-11.50	-3.83	0.00	-218.43	0.00	218.43	2,397.35	1,198.68	2,897.07	1,430.76	12.49	-1.40	0.157
89.00	-11.27	-3.80	0.00	-214.60	0.00	214.60	2,383.48	1,191.74	2,863.46	1,414.15	12.78	-1.42	0.156
90.00	-11.04	-3.78	0.00	-210.80	0.00	210.80	2,369.61	1,184.81	2,830.03	1,397.65	13.08	-1.44	0.155
90.00	-11.04	-3.77	0.00	-210.80	0.00	210.80	1,850.32	925.16	2,262.65	1,117.44	13.08	-1.44	0.195
91.00	-10.79	-3.68	0.00	-207.03	0.00	207.03	1,843.97	921.98	2,241.86	1,107.17	13.39	-1.46	0.193
92.00	-10.67	-3.65	0.00	-203.35	0.00	203.35	1,837.56	918.78	2,221.07	1,096.90	13.69	-1.48	0.191
93.00	-10.55	-3.63	0.00	-199.70	0.00	199.70	1,831.11	915.56	2,200.32	1,086.66	14.00	-1.50	0.190
94.00	-10.43	-3.61	0.00	-196.07	0.00	196.07	1,824.61	912.30	2,179.60	1,076.42	14.32	-1.51	0.188
95.00	-10.32	-3.58	0.00	-192.46	0.00	192.46	1,818.06	909.03	2,158.92	1,066.21	14.64	-1.53	0.186
96.00	-10.20	-3.56	0.00	-188.88	0.00	188.88	1,811.46	905.73	2,138.27	1,056.01	14.96	-1.55	0.185
97.00	-10.08	-3.54	0.00	-185.32	0.00	185.32	1,804.81	902.40	2,117.66	1,045.83	15.29	-1.57	0.183
98.00	-9.97	-3.51	0.00	-181.78	0.00	181.78	1,798.11	899.06	2,097.08	1,035.67	15.62	-1.59	0.181
99.00	-9.85	-3.49	0.00	-178.26	0.00	178.26	1,791.36	895.68	2,076.54	1,025.53	15.96	-1.61	0.179
100.00	-9.74	-3.47	0.00	-174.77	0.00	174.77	1,784.57	892.28	2,056.04	1,015.40	16.30	-1.63	0.178
101.00	-9.62	-3.45	0.00	-171.30	0.00	171.30	1,777.72	888.86	2,035.59	1,005.30	16.64	-1.65	0.176
102.00	-9.35	-3.34	0.00	-167.85	0.00	167.85	1,770.83	885.41	2,015.17	995.22	16.99	-1.67	0.174
103.00	-9.24	-3.32	0.00	-164.50	0.00	164.50	1,763.89	881.94	1,994.79	985.15	17.34	-1.69	0.172
104.00	-9.13	-3.30	0.00	-161.18	0.00	161.18	1,756.90	878.45	1,974.46	975.11	17.70	-1.71	0.171

Site Number: 302501

Code: ANSI/TIA-222-G

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Site Name: Plymouth CT 3, CT

Engineering Number: OAA692457_C3_03

1/11/2017 3:57:43 PM

Customer: AT&T Mobility

Load Case: 1.0D + 1.0W

Serviceability 60 mph

41 Iterations

Gust Response Factor : 1.10

Wind Importance Factor : 1.00

Dead Load Factor : 1.00

Wind Load Factor : 1.00

105.00	-9.02	-3.27	0.00	-157.88	0.00	157.88	1,749.86	874.93	1,954.17	965.09	18.06	-1.73	0.169
106.00	-8.90	-3.25	0.00	-154.61	0.00	154.61	1,742.77	871.38	1,933.93	955.09	18.42	-1.75	0.167
107.00	-8.79	-3.23	0.00	-151.36	0.00	151.36	1,735.63	867.81	1,913.73	945.12	18.79	-1.77	0.165
108.00	-8.68	-3.21	0.00	-148.13	0.00	148.13	1,728.44	864.22	1,893.58	935.17	19.16	-1.79	0.163
109.00	-8.57	-3.18	0.00	-144.93	0.00	144.93	1,721.20	860.60	1,873.48	925.24	19.54	-1.81	0.162
110.00	-8.24	-3.03	0.00	-141.70	0.00	141.70	1,713.92	856.96	1,853.43	915.34	19.92	-1.83	0.160
111.00	-8.13	-3.00	0.00	-138.67	0.00	138.67	1,706.58	853.29	1,833.43	905.46	20.30	-1.84	0.158
112.00	-8.02	-2.98	0.00	-135.67	0.00	135.67	1,699.20	849.60	1,813.48	895.61	20.69	-1.86	0.156
113.00	-7.92	-2.96	0.00	-132.69	0.00	132.69	1,691.77	845.88	1,793.58	885.78	21.09	-1.88	0.154
114.00	-7.81	-2.93	0.00	-129.73	0.00	129.73	1,684.29	842.14	1,773.74	875.98	21.48	-1.90	0.153
115.00	-7.71	-2.91	0.00	-126.80	0.00	126.80	1,676.76	838.38	1,753.95	866.21	21.88	-1.92	0.151
116.00	-7.60	-2.89	0.00	-123.89	0.00	123.89	1,669.18	834.59	1,734.22	856.46	22.29	-1.94	0.149
117.00	-7.50	-2.86	0.00	-121.00	0.00	121.00	1,661.55	830.78	1,714.54	846.75	22.69	-1.96	0.147
118.00	-7.39	-2.84	0.00	-118.14	0.00	118.14	1,653.87	826.94	1,694.92	837.06	23.11	-1.98	0.146
119.00	-7.29	-2.81	0.00	-115.30	0.00	115.30	1,646.15	823.07	1,675.36	827.40	23.52	-1.99	0.144
120.00	-7.18	-2.77	0.00	-112.49	0.00	112.49	1,638.37	819.19	1,655.86	817.77	23.94	-2.01	0.142
121.00	-7.08	-2.74	0.00	-109.72	0.00	109.72	1,628.70	814.35	1,634.57	807.25	24.37	-2.03	0.140
122.00	-6.98	-2.71	0.00	-106.98	0.00	106.98	1,617.35	808.68	1,611.74	795.98	24.79	-2.05	0.139
123.00	-6.88	-2.68	0.00	-104.27	0.00	104.27	1,606.00	803.00	1,589.07	784.78	25.22	-2.07	0.137
124.00	-6.78	-2.65	0.00	-101.59	0.00	101.59	1,594.66	797.33	1,566.57	773.67	25.66	-2.09	0.136
124.99	-6.68	-2.63	0.00	-98.96	0.00	98.96	1,583.38	791.69	1,544.35	762.70	26.10	-2.10	0.134
124.99	-6.68	-2.63	0.00	-98.96	0.00	98.96	1,139.37	569.69	1,117.16	551.72	26.10	-2.10	0.185
125.00	-6.68	-2.61	0.00	-98.94	0.00	98.94	1,139.34	569.67	1,117.08	551.68	26.10	-2.10	0.185
126.00	-6.59	-2.58	0.00	-96.33	0.00	96.33	1,134.60	567.30	1,104.40	545.42	26.54	-2.13	0.182
127.00	-6.51	-2.55	0.00	-93.74	0.00	93.74	1,129.80	564.90	1,091.75	539.17	26.99	-2.15	0.180
128.00	-6.43	-2.52	0.00	-91.19	0.00	91.19	1,124.96	562.48	1,079.11	532.93	27.44	-2.17	0.177
129.00	-6.35	-2.49	0.00	-88.67	0.00	88.67	1,120.07	560.03	1,066.50	526.70	27.90	-2.20	0.174
130.00	-6.26	-2.46	0.00	-86.18	0.00	86.18	1,115.13	557.56	1,053.90	520.48	28.36	-2.22	0.171
131.00	-6.18	-2.43	0.00	-83.72	0.00	83.72	1,110.14	555.07	1,041.34	514.28	28.83	-2.24	0.168
132.00	-6.10	-2.40	0.00	-81.29	0.00	81.29	1,105.10	552.55	1,028.79	508.08	29.30	-2.26	0.166
133.00	-6.02	-2.37	0.00	-78.89	0.00	78.89	1,100.01	550.01	1,016.28	501.90	29.78	-2.28	0.163
134.00	-5.94	-2.34	0.00	-76.52	0.00	76.52	1,094.88	547.44	1,003.79	495.73	30.26	-2.31	0.160
135.00	-5.86	-2.31	0.00	-74.18	0.00	74.18	1,089.69	544.84	991.33	489.58	30.74	-2.33	0.157
136.00	-5.78	-2.28	0.00	-71.87	0.00	71.87	1,084.45	542.23	978.89	483.44	31.23	-2.35	0.154
137.00	-5.70	-2.25	0.00	-69.59	0.00	69.59	1,079.17	539.59	966.49	477.31	31.73	-2.37	0.151
138.00	-5.62	-2.22	0.00	-67.34	0.00	67.34	1,073.84	536.92	954.12	471.20	32.23	-2.39	0.148
139.00	-5.54	-2.19	0.00	-65.13	0.00	65.13	1,068.46	534.23	941.78	465.11	32.73	-2.41	0.145
140.00	-5.47	-2.16	0.00	-62.94	0.00	62.94	1,063.03	531.51	929.48	459.03	33.24	-2.43	0.142
141.00	-5.39	-2.13	0.00	-60.78	0.00	60.78	1,057.55	528.77	917.21	452.97	33.75	-2.45	0.139
142.00	-5.31	-2.10	0.00	-58.65	0.00	58.65	1,052.02	526.01	904.97	446.93	34.26	-2.47	0.136
143.00	-5.24	-2.07	0.00	-56.56	0.00	56.56	1,046.44	523.22	892.77	440.91	34.78	-2.49	0.133
144.00	-5.16	-2.04	0.00	-54.49	0.00	54.49	1,040.82	520.41	880.61	434.90	35.31	-2.51	0.130
145.00	-5.08	-2.01	0.00	-52.45	0.00	52.45	1,035.14	517.57	868.49	428.91	35.84	-2.53	0.127
146.00	-5.01	-1.98	0.00	-50.44	0.00	50.44	1,029.42	514.71	856.41	422.95	36.37	-2.55	0.124
147.00	-4.93	-1.95	0.00	-48.46	0.00	48.46	1,023.64	511.82	844.36	417.00	36.91	-2.57	0.121
148.00	-4.86	-1.92	0.00	-46.51	0.00	46.51	1,017.82	508.91	832.36	411.07	37.45	-2.59	0.118
149.00	-4.79	-1.89	0.00	-44.59	0.00	44.59	1,011.95	505.97	820.40	405.17	37.99	-2.61	0.115
150.00	-4.28	-1.61	0.00	-42.53	0.00	42.53	1,006.03	503.01	808.49	399.28	38.54	-2.63	0.111
151.00	-4.21	-1.59	0.00	-40.91	0.00	40.91	1,000.06	500.03	796.62	393.42	39.09	-2.64	0.108
152.00	-4.14	-1.57	0.00	-39.32	0.00	39.32	994.04	497.02	784.80	387.58	39.65	-2.66	0.106
153.00	-4.07	-1.55	0.00	-37.74	0.00	37.74	987.57	493.78	772.70	381.61	40.21	-2.68	0.103
154.00	-4.01	-1.54	0.00	-36.19	0.00	36.19	978.74	489.37	758.87	374.78	40.77	-2.70	0.101
155.00	-3.94	-1.52	0.00	-34.65	0.00	34.65	969.92	484.96	745.17	368.01	41.33	-2.71	0.098
156.00	-3.87	-1.50	0.00	-33.14	0.00	33.14	961.09	480.55	731.59	361.31	41.90	-2.73	0.096
157.00	-3.81	-1.48	0.00	-31.64	0.00	31.64	952.26	476.13	718.14	354.66	42.48	-2.75	0.093
158.00	-3.74	-1.46	0.00	-30.16	0.00	30.16	943.44	471.72	704.81	348.08	43.05	-2.76	0.091
159.00	-3.68	-1.44	0.00	-28.71	0.00	28.71	934.61	467.31	691.61	341.56	43.63	-2.78	0.088

Site Number: 302501 Code: ANSI/TIA-222-G © 2007 - 2017 by ATC IP LLC. All rights reserved.
 Site Name: Plymouth CT 3, CT Engineering Number: OAA692457_C3_03 1/11/2017 3:57:43 PM
 Customer: AT&T Mobility

Load Case: 1.0D + 1.0W	Serviceability 60 mph	41 Iterations
Gust Response Factor : 1.10		Wind Importance Factor : 1.00
Dead Load Factor : 1.00		
Wind Load Factor : 1.00		

160.00	-3.61	-1.42	0.00	-27.27	0.00	27.27	925.79	462.89	678.53	335.10	44.22	-2.79	0.085
161.00	-3.55	-1.40	0.00	-25.85	0.00	25.85	916.96	458.48	665.57	328.70	44.80	-2.81	0.083
162.00	-3.49	-1.38	0.00	-24.45	0.00	24.45	908.13	454.07	652.74	322.37	45.39	-2.82	0.080
163.00	-3.42	-1.36	0.00	-23.07	0.00	23.07	899.31	449.65	640.04	316.09	45.98	-2.84	0.077
164.00	-3.36	-1.34	0.00	-21.70	0.00	21.70	890.48	445.24	627.46	309.88	46.58	-2.85	0.074
165.00	-3.30	-1.33	0.00	-20.36	0.00	20.36	881.65	440.83	615.01	303.73	47.18	-2.86	0.071
166.00	-3.24	-1.31	0.00	-19.04	0.00	19.04	872.83	436.41	602.68	297.64	47.78	-2.87	0.068
167.00	-3.18	-1.29	0.00	-17.73	0.00	17.73	864.00	432.00	590.47	291.61	48.38	-2.89	0.064
168.00	-3.12	-1.27	0.00	-16.44	0.00	16.44	855.17	427.59	578.39	285.65	48.99	-2.90	0.061
169.00	-3.06	-1.25	0.00	-15.17	0.00	15.17	846.35	423.17	566.44	279.74	49.60	-2.91	0.058
170.00	-3.00	-1.23	0.00	-13.92	0.00	13.92	837.52	418.76	554.61	273.90	50.21	-2.92	0.054
171.00	-2.86	-1.07	0.00	-12.69	0.00	12.69	828.70	414.35	542.90	268.12	50.82	-2.93	0.051
172.00	-2.81	-1.06	0.00	-11.61	0.00	11.61	819.87	409.93	531.32	262.40	51.43	-2.94	0.048
173.00	-2.76	-1.04	0.00	-10.56	0.00	10.56	811.04	405.52	519.86	256.74	52.05	-2.95	0.045
174.00	-2.70	-1.02	0.00	-9.52	0.00	9.52	802.22	401.11	508.53	251.15	52.67	-2.96	0.041
175.00	-2.65	-1.00	0.00	-8.50	0.00	8.50	793.39	396.70	497.33	245.61	53.29	-2.97	0.038
176.00	-2.55	-0.95	0.00	-7.49	0.00	7.49	784.56	392.28	486.25	240.14	53.91	-2.97	0.034
177.00	-2.50	-0.93	0.00	-6.55	0.00	6.55	775.74	387.87	475.29	234.73	54.53	-2.98	0.031
178.00	-2.45	-0.91	0.00	-5.62	0.00	5.62	766.91	383.46	464.46	229.38	55.16	-2.98	0.028
179.00	-2.40	-0.90	0.00	-4.70	0.00	4.70	758.08	379.04	453.75	224.09	55.78	-2.99	0.024
180.00	0.00	-0.77	0.00	-3.81	0.00	3.81	749.26	374.63	443.17	218.87	56.41	-2.99	0.017

Site Number: 302501	Code: ANSI/TIA-222-G	© 2007 - 2017 by ATC IP LLC. All rights reserved.
Site Name: Plymouth CT 3, CT	Engineering Number: OAA692457_C3_03	1/11/2017 3:57:43 PM
Customer: AT&T Mobility		

Equivalent Lateral Forces Method Analysis

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

Spectral Response Acceleration for Short Period (S_s):	0.19
Spectral Response Acceleration at 1.0 Second Period (S_1):	0.06
Long-Period Transition Period (T_L):	6
Importance Factor (I_E):	1.00
Site Coefficient F_a :	1.60
Site Coefficient F_v :	2.40
Response Modification Coefficient (R):	1.50
Design Spectral Response Acceleration at Short Period (S_{ds}):	0.20
Design Spectral Response Acceleration at 1.0 Second Period (S_{d1}):	0.10
Seismic Response Coefficient (C_s):	0.03
Upper Limit C_s	0.03
Lower Limit C_s	0.03
Period based on Rayleigh Method (sec):	3.31
Redundancy Factor (p):	1.30
Seismic Force Distribution Exponent (k):	2.00
Total Unfactored Dead Load:	27.65 k
Seismic Base Shear (E):	1.08 k

Load Case (1.2 + 0.2S_{ds}) * 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)
184	179.50	51	1,649	0.006	6	63
183	178.50	52	1,643	0.006	6	64
182	177.50	52	1,638	0.006	6	64
181	176.50	52	1,632	0.006	6	65
180	175.50	53	1,641	0.006	6	66
179	174.50	54	1,635	0.006	6	67
178	173.50	54	1,628	0.006	6	67
177	172.50	54	1,622	0.006	6	68
176	171.50	55	1,615	0.006	6	68
175	170.50	60	1,751	0.006	7	75
174	169.50	61	1,742	0.006	7	75
173	168.50	61	1,733	0.006	7	76
172	167.50	61	1,724	0.006	7	76
171	166.50	62	1,715	0.006	7	77
170	165.50	62	1,706	0.006	7	77
169	164.50	63	1,696	0.006	7	78
168	163.50	63	1,686	0.006	7	78
167	162.50	63	1,677	0.006	7	79
166	161.50	64	1,667	0.006	7	79
165	160.50	64	1,656	0.006	7	80
164	159.50	65	1,646	0.006	6	80
163	158.50	65	1,636	0.006	6	81
162	157.50	66	1,625	0.006	6	81

Site Number: 302501	Code: ANSI/TIA-222-G	© 2007 - 2017 by ATC IP LLC. All rights reserved.
Site Name: Plymouth CT 3, CT	Engineering Number: OAA692457_C3_03	1/11/2017 3:57:44 PM
Customer: AT&T Mobility		

161	156.50	66	1,615	0.006	6	82
160	155.50	66	1,604	0.006	6	82
159	154.50	67	1,593	0.006	6	83
158	153.50	67	1,582	0.006	6	83
157	152.50	68	1,571	0.006	6	84
156	151.50	68	1,560	0.006	6	84
155	150.50	68	1,549	0.006	6	85
154	149.50	74	1,658	0.006	7	92
153	148.50	75	1,645	0.006	6	92
152	147.50	75	1,632	0.006	6	93
151	146.50	75	1,618	0.006	6	93
150	145.50	76	1,605	0.006	6	94
149	144.50	76	1,591	0.006	6	94
148	143.50	77	1,578	0.006	6	95
147	142.50	77	1,564	0.006	6	95
146	141.50	77	1,550	0.006	6	96
145	140.50	78	1,537	0.006	6	96
144	139.50	78	1,523	0.006	6	97
143	138.50	79	1,509	0.005	6	97
142	137.50	79	1,495	0.005	6	98
141	136.50	79	1,481	0.005	6	99
140	135.50	80	1,467	0.005	6	99
139	134.50	80	1,452	0.005	6	100
138	133.50	81	1,438	0.005	6	100
137	132.50	81	1,424	0.005	6	101
136	131.50	82	1,409	0.005	6	101
135	130.50	82	1,395	0.005	5	102
134	129.50	82	1,381	0.005	5	102
133	128.50	83	1,366	0.005	5	103
132	127.50	83	1,352	0.005	5	103
131	126.50	84	1,337	0.005	5	104
130	125.50	84	1,322	0.005	5	104
129	125.00	0	8	0.000	0	1
128	124.50	100	1,549	0.006	6	124
127	123.50	101	1,541	0.006	6	125
126	122.50	102	1,524	0.006	6	126
125	121.50	102	1,507	0.005	6	127
124	120.50	103	1,490	0.005	6	127
123	119.50	103	1,473	0.005	6	128
122	118.50	104	1,456	0.005	6	128
121	117.50	104	1,438	0.005	6	129
120	116.50	105	1,421	0.005	6	130
119	115.50	105	1,404	0.005	6	130
118	114.50	106	1,386	0.005	5	131
117	113.50	106	1,369	0.005	5	132
116	112.50	107	1,352	0.005	5	132
115	111.50	107	1,334	0.005	5	133
114	110.50	108	1,317	0.005	5	134
113	109.50	109	1,304	0.005	5	135
112	108.50	109	1,286	0.005	5	135
111	107.50	110	1,269	0.005	5	136
110	106.50	110	1,251	0.005	5	137
109	105.50	111	1,234	0.004	5	137
108	104.50	111	1,216	0.004	5	138
107	103.50	112	1,199	0.004	5	139
106	102.50	112	1,181	0.004	5	139
105	101.50	113	1,165	0.004	5	140
104	100.50	114	1,148	0.004	5	141
103	99.50	114	1,130	0.004	4	141
102	98.50	115	1,112	0.004	4	142
101	97.50	115	1,095	0.004	4	143
100	96.50	116	1,078	0.004	4	143
99	95.50	116	1,060	0.004	4	144
98	94.50	117	1,043	0.004	4	145

Site Number: 302501	Code: ANSI/TIA-222-G	© 2007 - 2017 by ATC IP LLC. All rights reserved.
Site Name: Plymouth CT 3, CT	Engineering Number: OAA692457_C3_03	1/11/2017 3:57:44 PM
Customer: AT&T Mobility		

97	93.50	117	1,025	0.004	4	145
96	92.50	118	1,008	0.004	4	146
95	91.50	118	991	0.004	4	147
94	90.50	119	975	0.004	4	148
93	90.00	0	1	0.000	0	0
92	89.50	229	1,838	0.007	7	284
91	88.50	231	1,806	0.007	7	286
90	87.50	232	1,774	0.006	7	287
89	86.50	233	1,743	0.006	7	289
88	85.54	214	1,568	0.006	6	266
87	85.04	12	86	0.000	0	15
86	84.50	141	1,006	0.004	4	175
85	83.50	142	987	0.004	4	175
84	82.50	142	968	0.004	4	176
83	81.50	143	949	0.003	4	177
82	80.50	143	930	0.003	4	178
81	79.50	144	911	0.003	4	179
80	78.50	145	892	0.003	4	179
79	77.50	145	873	0.003	3	180
78	76.50	146	855	0.003	3	181
77	75.50	147	836	0.003	3	182
76	74.50	147	818	0.003	3	183
75	73.50	148	799	0.003	3	183
74	72.50	149	781	0.003	3	184
73	71.50	149	763	0.003	3	185
72	70.50	150	745	0.003	3	186
71	69.50	151	727	0.003	3	187
70	68.50	151	709	0.003	3	187
69	67.50	152	692	0.003	3	188
68	66.50	152	674	0.002	3	189
67	65.50	153	657	0.002	3	190
66	64.50	154	640	0.002	3	191
65	63.50	154	622	0.002	2	191
64	62.50	155	606	0.002	2	192
63	61.50	156	589	0.002	2	193
62	60.50	156	572	0.002	2	194
61	59.50	157	556	0.002	2	195
60	58.50	158	539	0.002	2	195
59	57.50	158	523	0.002	2	196
58	56.50	159	507	0.002	2	197
57	55.50	160	491	0.002	2	198
56	54.50	160	476	0.002	2	198
55	53.50	161	460	0.002	2	199
54	52.50	161	445	0.002	2	200
53	51.50	162	430	0.002	2	201
52	50.50	163	415	0.002	2	202
51	49.50	163	400	0.001	2	202
50	48.50	164	386	0.001	2	203
49	47.50	311	701	0.003	3	385
48	46.50	312	675	0.002	3	387
47	45.50	313	649	0.002	3	388
46	44.50	315	623	0.002	2	390
45	43.50	316	598	0.002	2	392
44	42.67	211	384	0.001	2	262
43	42.17	59	106	0.000	0	74
42	41.50	178	307	0.001	1	221
41	40.50	179	294	0.001	1	222
40	39.50	180	280	0.001	1	223
39	38.50	180	267	0.001	1	224
38	37.50	181	255	0.001	1	224
37	36.50	182	242	0.001	1	225
36	35.50	182	230	0.001	1	226
35	34.50	183	218	0.001	1	227
34	33.50	184	206	0.001	1	228

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Site Name: Plymouth CT 3, CT	Engineering Number: OAA692457_C3_03	1/11/2017 3:57:44 PM
Customer: AT&T Mobility		

33	32.50	185	195	0.001	1	229
32	31.50	185	184	0.001	1	230
31	30.50	186	173	0.001	1	230
30	29.50	187	162	0.001	1	231
29	28.50	187	152	0.001	1	232
28	27.50	188	142	0.001	1	233
27	26.50	189	133	0.000	1	234
26	25.50	189	123	0.000	0	235
25	24.50	190	114	0.000	0	236
24	23.50	191	105	0.000	0	237
23	22.50	192	97	0.000	0	237
22	21.50	192	89	0.000	0	238
21	20.50	193	81	0.000	0	239
20	19.50	194	74	0.000	0	240
19	18.50	194	67	0.000	0	241
18	17.50	195	60	0.000	0	242
17	16.50	196	53	0.000	0	243
16	15.50	196	47	0.000	0	243
15	14.50	197	41	0.000	0	244
14	13.50	198	36	0.000	0	245
13	12.50	199	31	0.000	0	246
12	11.50	199	26	0.000	0	247
11	10.50	200	22	0.000	0	248
10	9.50	201	18	0.000	0	249
9	8.50	201	15	0.000	0	250
8	7.50	202	11	0.000	0	250
7	6.50	175	7	0.000	0	217
6	5.50	175	5	0.000	0	217
5	4.50	176	4	0.000	0	218
4	3.50	177	2	0.000	0	219
3	2.50	178	1	0.000	0	220
2	1.50	178	0	0.000	0	221
1	0.50	179	0	0.000	0	222
Andrew ABT-DFDM-ADB	185.00	1	38	0.000	0	1
Powerwave LGP21901	185.00	33	1,129	0.004	4	41
Powerwave LGP21401	185.00	85	2,895	0.011	11	105
Raycap DC6-48-60-18-	185.00	32	1,088	0.004	4	39
Ericsson RRUS A2 Mod	185.00	66	2,259	0.008	9	82
Ericsson RRUS 32 B2	185.00	159	5,442	0.020	21	197
Ericsson RRUS 11 B12	185.00	152	5,206	0.019	20	189
Powerwave 7770.00	185.00	105	3,594	0.013	14	130
Powerwave 7770.00	185.00	105	3,594	0.013	14	130
CCI HPA-65R-BUU-H6	185.00	153	5,236	0.019	21	190
Round Low Profile PI	185.00	1,500	51,338	0.187	202	1,859
Motorola PTP 800 ODU	176.00	20	626	0.002	2	25
Radio Waves HPD2-4.7	176.00	27	836	0.003	3	33
RFS APXV18-206517S-C	171.00	79	2,316	0.008	9	98
Bird 432-83H-01-T	150.00	25	563	0.002	2	31
Antel WPA-70080-2CF-	150.00	5	113	0.000	0	6
Antel WPA-70080-2CF-	150.00	5	113	0.000	0	6
Scala OGT9-840	150.00	37	833	0.003	3	46
Scala OGT9-840	150.00	37	833	0.003	3	46
TX RX Systems 422-86	150.00	40	900	0.003	4	50
Side Arm	150.00	300	6,750	0.025	27	372
Motorola PTP 800 ODU	110.00	20	244	0.001	1	25
Lone Star Electronic	110.00	11	133	0.000	1	14
Flat Side Arm	110.00	150	1,815	0.007	7	186
Andrew VHLP2.6	110.00	48	581	0.002	2	59
Bird FSA-10-67-DIN	102.00	9	94	0.000	0	11
Flat Side Arm	102.00	150	1,561	0.006	6	186
Andrew P6F-0-9-N7A	91.00	134	1,110	0.004	4	166
		27,654	274,692	1.000	1,079	34,277

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Site Name: Plymouth CT 3, CT	Engineering Number: OAA692457_C3_03	1/11/2017 3:57:44 PM
Customer: AT&T Mobility		

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)
184	179.50	51	1,649	0.006	6	44
183	178.50	52	1,643	0.006	6	44
182	177.50	52	1,638	0.006	6	45
181	176.50	52	1,632	0.006	6	45
180	175.50	53	1,641	0.006	6	46
179	174.50	54	1,635	0.006	6	46
178	173.50	54	1,628	0.006	6	47
177	172.50	54	1,622	0.006	6	47
176	171.50	55	1,615	0.006	6	47
175	170.50	60	1,751	0.006	7	52
174	169.50	61	1,742	0.006	7	52
173	168.50	61	1,733	0.006	7	53
172	167.50	61	1,724	0.006	7	53
171	166.50	62	1,715	0.006	7	53
170	165.50	62	1,706	0.006	7	54
169	164.50	63	1,696	0.006	7	54
168	163.50	63	1,686	0.006	7	54
167	162.50	63	1,677	0.006	7	55
166	161.50	64	1,667	0.006	7	55
165	160.50	64	1,656	0.006	7	55
164	159.50	65	1,646	0.006	6	56
163	158.50	65	1,636	0.006	6	56
162	157.50	66	1,625	0.006	6	56
161	156.50	66	1,615	0.006	6	57
160	155.50	66	1,604	0.006	6	57
159	154.50	67	1,593	0.006	6	57
158	153.50	67	1,582	0.006	6	58
157	152.50	68	1,571	0.006	6	58
156	151.50	68	1,560	0.006	6	58
155	150.50	68	1,549	0.006	6	59
154	149.50	74	1,658	0.006	7	64
153	148.50	75	1,645	0.006	6	64
152	147.50	75	1,632	0.006	6	65
151	146.50	75	1,618	0.006	6	65
150	145.50	76	1,605	0.006	6	65
149	144.50	76	1,591	0.006	6	66
148	143.50	77	1,578	0.006	6	66
147	142.50	77	1,564	0.006	6	66
146	141.50	77	1,550	0.006	6	67
145	140.50	78	1,537	0.006	6	67
144	139.50	78	1,523	0.006	6	67
143	138.50	79	1,509	0.005	6	68
142	137.50	79	1,495	0.005	6	68
141	136.50	79	1,481	0.005	6	68
140	135.50	80	1,467	0.005	6	69
139	134.50	80	1,452	0.005	6	69
138	133.50	81	1,438	0.005	6	69
137	132.50	81	1,424	0.005	6	70
136	131.50	82	1,409	0.005	6	70
135	130.50	82	1,395	0.005	5	70
134	129.50	82	1,381	0.005	5	71
133	128.50	83	1,366	0.005	5	71
132	127.50	83	1,352	0.005	5	72
131	126.50	84	1,337	0.005	5	72
130	125.50	84	1,322	0.005	5	72
129	125.00	0	8	0.000	0	0
128	124.50	100	1,549	0.006	6	86

Site Number: 302501	Code: ANSI/TIA-222-G	© 2007 - 2017 by ATC IP LLC. All rights reserved.
Site Name: Plymouth CT 3, CT	Engineering Number: OAA692457_C3_03	1/11/2017 3:57:44 PM
Customer: AT&T Mobility		

127	123.50	101	1,541	0.006	6	87
126	122.50	102	1,524	0.006	6	87
125	121.50	102	1,507	0.005	6	88
124	120.50	103	1,490	0.005	6	88
123	119.50	103	1,473	0.005	6	89
122	118.50	104	1,456	0.005	6	89
121	117.50	104	1,438	0.005	6	90
120	116.50	105	1,421	0.005	6	90
119	115.50	105	1,404	0.005	6	91
118	114.50	106	1,386	0.005	5	91
117	113.50	106	1,369	0.005	5	91
116	112.50	107	1,352	0.005	5	92
115	111.50	107	1,334	0.005	5	92
114	110.50	108	1,317	0.005	5	93
113	109.50	109	1,304	0.005	5	94
112	108.50	109	1,286	0.005	5	94
111	107.50	110	1,269	0.005	5	94
110	106.50	110	1,251	0.005	5	95
109	105.50	111	1,234	0.004	5	95
108	104.50	111	1,216	0.004	5	96
107	103.50	112	1,199	0.004	5	96
106	102.50	112	1,181	0.004	5	97
105	101.50	113	1,165	0.004	5	97
104	100.50	114	1,148	0.004	5	98
103	99.50	114	1,130	0.004	4	98
102	98.50	115	1,112	0.004	4	99
101	97.50	115	1,095	0.004	4	99
100	96.50	116	1,078	0.004	4	100
99	95.50	116	1,060	0.004	4	100
98	94.50	117	1,043	0.004	4	100
97	93.50	117	1,025	0.004	4	101
96	92.50	118	1,008	0.004	4	101
95	91.50	118	991	0.004	4	102
94	90.50	119	975	0.004	4	102
93	90.00	0	1	0.000	0	0
92	89.50	229	1,838	0.007	7	197
91	88.50	231	1,806	0.007	7	198
90	87.50	232	1,774	0.006	7	199
89	86.50	233	1,743	0.006	7	200
88	85.54	214	1,568	0.006	6	184
87	85.04	12	86	0.000	0	10
86	84.50	141	1,006	0.004	4	121
85	83.50	142	987	0.004	4	122
84	82.50	142	968	0.004	4	122
83	81.50	143	949	0.003	4	123
82	80.50	143	930	0.003	4	123
81	79.50	144	911	0.003	4	124
80	78.50	145	892	0.003	4	125
79	77.50	145	873	0.003	3	125
78	76.50	146	855	0.003	3	126
77	75.50	147	836	0.003	3	126
76	74.50	147	818	0.003	3	127
75	73.50	148	799	0.003	3	127
74	72.50	149	781	0.003	3	128
73	71.50	149	763	0.003	3	128
72	70.50	150	745	0.003	3	129
71	69.50	151	727	0.003	3	130
70	68.50	151	709	0.003	3	130
69	67.50	152	692	0.003	3	131
68	66.50	152	674	0.002	3	131
67	65.50	153	657	0.002	3	132
66	64.50	154	640	0.002	3	132
65	63.50	154	622	0.002	2	133
64	62.50	155	606	0.002	2	133

Site Number: 302501	Code: ANSI/TIA-222-G	© 2007 - 2017 by ATC IP LLC. All rights reserved.
Site Name: Plymouth CT 3, CT	Engineering Number: OAA692457_C3_03	1/11/2017 3:57:44 PM
Customer: AT&T Mobility		

63	61.50	156	589	0.002	2	134
62	60.50	156	572	0.002	2	135
61	59.50	157	556	0.002	2	135
60	58.50	158	539	0.002	2	136
59	57.50	158	523	0.002	2	136
58	56.50	159	507	0.002	2	137
57	55.50	160	491	0.002	2	137
56	54.50	160	476	0.002	2	138
55	53.50	161	460	0.002	2	138
54	52.50	161	445	0.002	2	139
53	51.50	162	430	0.002	2	139
52	50.50	163	415	0.002	2	140
51	49.50	163	400	0.001	2	141
50	48.50	164	386	0.001	2	141
49	47.50	311	701	0.003	3	267
48	46.50	312	675	0.002	3	269
47	45.50	313	649	0.002	3	270
46	44.50	315	623	0.002	2	271
45	43.50	316	598	0.002	2	272
44	42.67	211	384	0.001	2	182
43	42.17	59	106	0.000	0	51
42	41.50	178	307	0.001	1	153
41	40.50	179	294	0.001	1	154
40	39.50	180	280	0.001	1	155
39	38.50	180	267	0.001	1	155
38	37.50	181	255	0.001	1	156
37	36.50	182	242	0.001	1	156
36	35.50	182	230	0.001	1	157
35	34.50	183	218	0.001	1	158
34	33.50	184	206	0.001	1	158
33	32.50	185	195	0.001	1	159
32	31.50	185	184	0.001	1	159
31	30.50	186	173	0.001	1	160
30	29.50	187	162	0.001	1	161
29	28.50	187	152	0.001	1	161
28	27.50	188	142	0.001	1	162
27	26.50	189	133	0.000	1	162
26	25.50	189	123	0.000	0	163
25	24.50	190	114	0.000	0	164
24	23.50	191	105	0.000	0	164
23	22.50	192	97	0.000	0	165
22	21.50	192	89	0.000	0	165
21	20.50	193	81	0.000	0	166
20	19.50	194	74	0.000	0	167
19	18.50	194	67	0.000	0	167
18	17.50	195	60	0.000	0	168
17	16.50	196	53	0.000	0	168
16	15.50	196	47	0.000	0	169
15	14.50	197	41	0.000	0	170
14	13.50	198	36	0.000	0	170
13	12.50	199	31	0.000	0	171
12	11.50	199	26	0.000	0	171
11	10.50	200	22	0.000	0	172
10	9.50	201	18	0.000	0	173
9	8.50	201	15	0.000	0	173
8	7.50	202	11	0.000	0	174
7	6.50	175	7	0.000	0	150
6	5.50	175	5	0.000	0	151
5	4.50	176	4	0.000	0	152
4	3.50	177	2	0.000	0	152
3	2.50	178	1	0.000	0	153
2	1.50	178	0	0.000	0	153
1	0.50	179	0	0.000	0	154
Andrew ABT-DFDM-ADB	185.00	1	38	0.000	0	1

Site Number: 302501	Code: ANSI/TIA-222-G	© 2007 - 2017 by ATC IP LLC. All rights reserved.
Site Name: Plymouth CT 3, CT	Engineering Number: OAA692457_C3_03	1/11/2017 3:57:44 PM
Customer: AT&T Mobility		

Powerwave LGP21901	185.00	33	1,129	0.004	4	28
Powerwave LGP21401	185.00	85	2,895	0.011	11	73
Raycap DC6-48-60-18-	185.00	32	1,088	0.004	4	27
Ericsson RRUS A2 Mod	185.00	66	2,259	0.008	9	57
Ericsson RRUS 32 B2	185.00	159	5,442	0.020	21	137
Ericsson RRUS 11 B12	185.00	152	5,206	0.019	20	131
Powerwave 7770.00	185.00	105	3,594	0.013	14	90
Powerwave 7770.00	185.00	105	3,594	0.013	14	90
CCI HPA-65R-BUU-H6	185.00	153	5,236	0.019	21	132
Round Low Profile PI	185.00	1,500	51,338	0.187	202	1,291
Motorola PTP 800 ODU	176.00	20	626	0.002	2	17
Radio Waves HPD2-4.7	176.00	27	836	0.003	3	23
RFS APXV18-206517S-C	171.00	79	2,316	0.008	9	68
Bird 432-83H-01-T	150.00	25	563	0.002	2	22
Antel WPA-70080-2CF-	150.00	5	113	0.000	0	4
Antel WPA-70080-2CF-	150.00	5	113	0.000	0	4
Scala OGT9-840	150.00	37	833	0.003	3	32
Scala OGT9-840	150.00	37	833	0.003	3	32
TX RX Systems 422-86	150.00	40	900	0.003	4	34
Side Arm	150.00	300	6,750	0.025	27	258
Motorola PTP 800 ODU	110.00	20	244	0.001	1	17
Lone Star Electronic	110.00	11	133	0.000	1	9
Flat Side Arm	110.00	150	1,815	0.007	7	129
Andrew VHLP2.6	110.00	48	581	0.002	2	41
Bird FSA-10-67-DIN	102.00	9	94	0.000	0	8
Flat Side Arm	102.00	150	1,561	0.006	6	129
Andrew P6F-0-9-N7A	91.00	134	1,110	0.004	4	115
		27,654	274,692	1.000	1,079	23,797

Site Number: 302501

Code: ANSI/TIA-222-G

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Site Name: Plymouth CT 3, CT

Engineering Number: OAA692457_C3_03

1/11/2017 3:57:44 PM

Customer: AT&T Mobility

Load Case (1.2 + 0.2Sds) * DL + E ELFMSeismic Equivalent Lateral Forces MethodCalculated 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	-31.09	-0.76	0.00	-97.40	0.00	97.40	3,477.38	1,738.69	6,258.10	3,090.64	0.00	0.00	0.040
1.00	-30.87	-0.76	0.00	-96.64	0.00	96.64	3,470.08	1,735.04	6,220.43	3,072.04	0.00	0.00	0.040
2.00	-30.65	-0.76	0.00	-95.89	0.00	95.89	3,462.74	1,731.37	6,182.78	3,053.44	0.00	0.00	0.040
3.00	-30.43	-0.76	0.00	-95.13	0.00	95.13	3,455.35	1,727.67	6,145.14	3,034.85	0.00	-0.01	0.040
4.00	-30.21	-0.76	0.00	-94.37	0.00	94.37	3,447.91	1,723.95	6,107.52	3,016.27	0.00	-0.01	0.040
5.00	-30.00	-0.76	0.00	-93.61	0.00	93.61	3,440.42	1,720.21	6,069.92	2,997.70	0.01	-0.01	0.040
6.00	-29.78	-0.76	0.00	-92.85	0.00	92.85	3,432.88	1,716.44	6,032.34	2,979.14	0.01	-0.01	0.040
7.00	-29.53	-0.76	0.00	-92.09	0.00	92.09	3,425.29	1,712.64	5,994.78	2,960.59	0.01	-0.02	0.040
8.00	-29.28	-0.76	0.00	-91.33	0.00	91.33	3,417.65	1,708.83	5,957.24	2,942.06	0.01	-0.02	0.040
9.00	-29.03	-0.77	0.00	-90.56	0.00	90.56	3,409.97	1,704.98	5,919.72	2,923.53	0.02	-0.02	0.039
10.00	-28.78	-0.77	0.00	-89.80	0.00	89.80	3,402.23	1,701.12	5,882.23	2,905.01	0.02	-0.02	0.039
11.00	-28.54	-0.77	0.00	-89.03	0.00	89.03	3,394.45	1,697.22	5,844.77	2,886.51	0.03	-0.02	0.039
12.00	-28.29	-0.77	0.00	-88.26	0.00	88.26	3,386.61	1,693.31	5,807.33	2,868.02	0.03	-0.03	0.039
13.00	-28.04	-0.77	0.00	-87.50	0.00	87.50	3,378.73	1,689.37	5,769.91	2,849.54	0.04	-0.03	0.039
14.00	-27.80	-0.77	0.00	-86.73	0.00	86.73	3,370.80	1,685.40	5,732.53	2,831.08	0.05	-0.03	0.039
15.00	-27.56	-0.77	0.00	-85.96	0.00	85.96	3,362.82	1,681.41	5,695.17	2,812.63	0.05	-0.03	0.039
16.00	-27.31	-0.77	0.00	-85.19	0.00	85.19	3,354.79	1,677.40	5,657.85	2,794.20	0.06	-0.04	0.039
17.00	-27.07	-0.77	0.00	-84.42	0.00	84.42	3,346.72	1,673.36	5,620.56	2,775.78	0.07	-0.04	0.039
18.00	-26.83	-0.77	0.00	-83.64	0.00	83.64	3,338.59	1,669.29	5,583.30	2,757.38	0.07	-0.04	0.038
19.00	-26.59	-0.77	0.00	-82.87	0.00	82.87	3,330.41	1,665.21	5,546.07	2,738.99	0.08	-0.04	0.038
20.00	-26.35	-0.77	0.00	-82.10	0.00	82.10	3,322.19	1,661.09	5,508.88	2,720.63	0.09	-0.04	0.038
21.00	-26.11	-0.77	0.00	-81.33	0.00	81.33	3,313.92	1,656.96	5,471.72	2,702.28	0.10	-0.05	0.038
22.00	-25.88	-0.77	0.00	-80.55	0.00	80.55	3,305.59	1,652.80	5,434.60	2,683.94	0.11	-0.05	0.038
23.00	-25.64	-0.77	0.00	-79.78	0.00	79.78	3,297.22	1,648.61	5,397.51	2,665.63	0.12	-0.05	0.038
24.00	-25.40	-0.78	0.00	-79.00	0.00	79.00	3,288.80	1,644.40	5,360.47	2,647.33	0.13	-0.05	0.038
25.00	-25.17	-0.78	0.00	-78.23	0.00	78.23	3,280.33	1,640.17	5,323.46	2,629.06	0.15	-0.06	0.037
26.00	-24.94	-0.78	0.00	-77.45	0.00	77.45	3,271.81	1,635.91	5,286.50	2,610.80	0.16	-0.06	0.037
27.00	-24.70	-0.78	0.00	-76.68	0.00	76.68	3,263.25	1,631.62	5,249.58	2,592.57	0.17	-0.06	0.037
28.00	-24.47	-0.78	0.00	-75.90	0.00	75.90	3,254.63	1,627.32	5,212.70	2,574.36	0.18	-0.06	0.037
29.00	-24.24	-0.78	0.00	-75.12	0.00	75.12	3,245.97	1,622.98	5,175.86	2,556.16	0.20	-0.07	0.037
30.00	-24.01	-0.78	0.00	-74.35	0.00	74.35	3,237.25	1,618.63	5,139.07	2,537.99	0.21	-0.07	0.037
31.00	-23.78	-0.78	0.00	-73.57	0.00	73.57	3,228.49	1,614.24	5,102.33	2,519.85	0.23	-0.07	0.037
32.00	-23.55	-0.78	0.00	-72.79	0.00	72.79	3,219.68	1,609.84	5,065.63	2,501.72	0.24	-0.07	0.036
33.00	-23.32	-0.78	0.00	-72.02	0.00	72.02	3,210.82	1,605.41	5,028.98	2,483.62	0.26	-0.08	0.036
34.00	-23.09	-0.78	0.00	-71.24	0.00	71.24	3,201.91	1,600.95	4,992.38	2,465.55	0.27	-0.08	0.036
35.00	-22.87	-0.78	0.00	-70.46	0.00	70.46	3,192.95	1,596.47	4,955.83	2,447.50	0.29	-0.08	0.036
36.00	-22.64	-0.78	0.00	-69.69	0.00	69.69	3,183.94	1,591.97	4,919.33	2,429.47	0.31	-0.08	0.036
37.00	-22.42	-0.78	0.00	-68.91	0.00	68.91	3,174.88	1,587.44	4,882.88	2,411.47	0.32	-0.09	0.036
38.00	-22.19	-0.77	0.00	-68.14	0.00	68.14	3,165.78	1,582.89	4,846.48	2,393.50	0.34	-0.09	0.035
39.00	-21.97	-0.77	0.00	-67.36	0.00	67.36	3,156.62	1,578.31	4,810.14	2,375.55	0.36	-0.09	0.035
40.00	-21.75	-0.77	0.00	-66.59	0.00	66.59	3,147.42	1,573.71	4,773.86	2,357.63	0.38	-0.09	0.035
41.00	-21.53	-0.77	0.00	-65.82	0.00	65.82	3,138.17	1,569.08	4,737.63	2,339.74	0.40	-0.09	0.035
42.00	-21.46	-0.77	0.00	-65.04	0.00	65.04	3,128.87	1,564.43	4,701.46	2,321.87	0.42	-0.10	0.035
42.33	-21.19	-0.77	0.00	-64.78	0.00	64.78	3,125.75	1,562.87	4,689.38	2,315.91	0.43	-0.10	0.035
43.00	-20.80	-0.77	0.00	-64.27	0.00	64.27	3,119.52	1,559.76	4,665.35	2,304.04	0.44	-0.10	0.035
44.00	-20.41	-0.77	0.00	-63.50	0.00	63.50	3,110.12	1,555.06	4,629.29	2,286.23	0.46	-0.10	0.034
45.00	-20.02	-0.76	0.00	-62.73	0.00	62.73	3,100.67	1,550.33	4,593.30	2,268.46	0.48	-0.10	0.034
46.00	-19.64	-0.76	0.00	-61.97	0.00	61.97	3,091.17	1,545.59	4,557.37	2,250.71	0.50	-0.11	0.034
47.00	-19.25	-0.76	0.00	-61.21	0.00	61.21	3,081.63	1,540.81	4,521.50	2,233.00	0.53	-0.11	0.034
48.00	-19.05	-0.76	0.00	-60.45	0.00	60.45	2,760.51	1,380.25	4,116.88	2,033.17	0.55	-0.11	0.037
49.00	-18.85	-0.76	0.00	-59.69	0.00	59.69	2,752.72	1,376.36	4,085.80	2,017.82	0.57	-0.11	0.036
50.00	-18.64	-0.76	0.00	-58.93	0.00	58.93	2,744.89	1,372.44	4,054.76	2,002.49	0.60	-0.12	0.036
51.00	-18.44	-0.75	0.00	-58.18	0.00	58.18	2,737.01	1,368.50	4,023.76	1,987.18	0.62	-0.12	0.036
52.00	-18.24	-0.75	0.00	-57.42	0.00	57.42	2,729.07	1,364.54	3,992.80	1,971.89	0.65	-0.12	0.036
53.00	-18.04	-0.75	0.00	-56.67	0.00	56.67	2,721.09	1,360.55	3,961.88	1,956.62	0.67	-0.12	0.036
54.00	-17.85	-0.75	0.00	-55.92	0.00	55.92	2,713.06	1,356.53	3,931.00	1,941.37	0.70	-0.13	0.035

Site Number: 302501

Code: ANSI/TIA-222-G

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Site Name: Plymouth CT 3, CT

Engineering Number: OAA692457_C3_03

1/11/2017 3:57:44 PM

Customer: AT&T Mobility

55.00	-17.65	-0.75	0.00	-55.17	0.00	55.17	2,704.99	1,352.49	3,900.16	1,926.14	0.73	-0.13	0.035
56.00	-17.45	-0.75	0.00	-54.42	0.00	54.42	2,696.86	1,348.43	3,869.37	1,910.94	0.76	-0.13	0.035
57.00	-17.25	-0.75	0.00	-53.67	0.00	53.67	2,688.68	1,344.34	3,838.62	1,895.75	0.78	-0.14	0.035
58.00	-17.06	-0.74	0.00	-52.92	0.00	52.92	2,680.46	1,340.23	3,807.92	1,880.59	0.81	-0.14	0.035
59.00	-16.86	-0.74	0.00	-52.18	0.00	52.18	2,672.18	1,336.09	3,777.27	1,865.45	0.84	-0.14	0.034
60.00	-16.67	-0.74	0.00	-51.44	0.00	51.44	2,663.86	1,331.93	3,746.66	1,850.34	0.87	-0.14	0.034
61.00	-16.48	-0.74	0.00	-50.70	0.00	50.70	2,655.49	1,327.74	3,716.11	1,835.24	0.90	-0.15	0.034
62.00	-16.29	-0.74	0.00	-49.96	0.00	49.96	2,647.07	1,323.53	3,685.60	1,820.18	0.93	-0.15	0.034
63.00	-16.09	-0.73	0.00	-49.23	0.00	49.23	2,638.60	1,319.30	3,655.15	1,805.14	0.96	-0.15	0.033
64.00	-15.90	-0.73	0.00	-48.49	0.00	48.49	2,630.08	1,315.04	3,624.74	1,790.12	0.99	-0.15	0.033
65.00	-15.71	-0.73	0.00	-47.76	0.00	47.76	2,621.51	1,310.76	3,594.39	1,775.14	1.03	-0.16	0.033
66.00	-15.52	-0.73	0.00	-47.03	0.00	47.03	2,612.90	1,306.45	3,564.10	1,760.18	1.06	-0.16	0.033
67.00	-15.34	-0.72	0.00	-46.31	0.00	46.31	2,604.23	1,302.11	3,533.86	1,745.24	1.09	-0.16	0.032
68.00	-15.15	-0.72	0.00	-45.58	0.00	45.58	2,595.52	1,297.76	3,503.68	1,730.34	1.13	-0.16	0.032
69.00	-14.96	-0.72	0.00	-44.86	0.00	44.86	2,586.75	1,293.38	3,473.55	1,715.46	1.16	-0.17	0.032
70.00	-14.78	-0.72	0.00	-44.14	0.00	44.14	2,577.94	1,288.97	3,443.49	1,700.61	1.20	-0.17	0.032
71.00	-14.59	-0.71	0.00	-43.43	0.00	43.43	2,569.08	1,284.54	3,413.48	1,685.79	1.23	-0.17	0.031
72.00	-14.41	-0.71	0.00	-42.71	0.00	42.71	2,560.17	1,280.08	3,383.54	1,671.00	1.27	-0.17	0.031
73.00	-14.22	-0.71	0.00	-42.00	0.00	42.00	2,551.21	1,275.60	3,353.65	1,656.24	1.31	-0.18	0.031
74.00	-14.04	-0.70	0.00	-41.30	0.00	41.30	2,542.20	1,271.10	3,323.83	1,641.51	1.34	-0.18	0.031
75.00	-13.86	-0.70	0.00	-40.59	0.00	40.59	2,533.14	1,266.57	3,294.07	1,626.82	1.38	-0.18	0.030
76.00	-13.68	-0.70	0.00	-39.89	0.00	39.89	2,524.04	1,262.02	3,264.38	1,612.15	1.42	-0.18	0.030
77.00	-13.50	-0.69	0.00	-39.20	0.00	39.20	2,514.88	1,257.44	3,234.75	1,597.52	1.46	-0.19	0.030
78.00	-13.32	-0.69	0.00	-38.50	0.00	38.50	2,505.68	1,252.84	3,205.19	1,582.92	1.50	-0.19	0.030
79.00	-13.14	-0.69	0.00	-37.81	0.00	37.81	2,496.42	1,248.21	3,175.70	1,568.36	1.54	-0.19	0.029
80.00	-12.96	-0.68	0.00	-37.13	0.00	37.13	2,487.12	1,243.56	3,146.28	1,553.83	1.58	-0.19	0.029
81.00	-12.79	-0.68	0.00	-36.44	0.00	36.44	2,477.77	1,238.89	3,116.92	1,539.33	1.62	-0.20	0.029
82.00	-12.61	-0.68	0.00	-35.76	0.00	35.76	2,468.37	1,234.19	3,087.64	1,524.87	1.66	-0.20	0.029
83.00	-12.43	-0.67	0.00	-35.09	0.00	35.09	2,458.92	1,229.46	3,058.43	1,510.45	1.70	-0.20	0.028
84.00	-12.26	-0.67	0.00	-34.42	0.00	34.42	2,449.43	1,224.71	3,029.30	1,496.06	1.74	-0.20	0.028
85.00	-12.24	-0.67	0.00	-33.75	0.00	33.75	2,438.96	1,219.48	2,999.10	1,481.15	1.79	-0.21	0.028
85.08	-11.98	-0.66	0.00	-33.69	0.00	33.69	2,437.79	1,218.90	2,996.22	1,479.72	1.79	-0.21	0.028
86.00	-11.69	-0.65	0.00	-33.09	0.00	33.09	2,425.09	1,212.55	2,964.90	1,464.25	1.83	-0.21	0.027
87.00	-11.40	-0.65	0.00	-32.44	0.00	32.44	2,411.22	1,205.61	2,930.89	1,447.45	1.88	-0.21	0.027
88.00	-11.12	-0.64	0.00	-31.79	0.00	31.79	2,397.35	1,198.68	2,897.07	1,430.76	1.92	-0.21	0.027
89.00	-10.83	-0.63	0.00	-31.15	0.00	31.15	2,383.48	1,191.74	2,863.46	1,414.15	1.97	-0.22	0.027
90.00	-10.83	-0.63	0.00	-30.52	0.00	30.52	2,369.61	1,184.81	2,830.03	1,397.65	2.01	-0.22	0.026
90.00	-10.68	-0.63	0.00	-30.52	0.00	30.52	1,850.32	925.16	2,262.65	1,117.44	2.01	-0.22	0.033
91.00	-10.37	-0.62	0.00	-29.90	0.00	29.90	1,843.97	921.98	2,241.86	1,107.17	2.06	-0.22	0.033
92.00	-10.23	-0.61	0.00	-29.28	0.00	29.28	1,837.56	918.78	2,221.07	1,096.90	2.10	-0.22	0.032
93.00	-10.08	-0.61	0.00	-28.67	0.00	28.67	1,831.11	915.56	2,200.32	1,086.66	2.15	-0.23	0.032
94.00	-9.94	-0.60	0.00	-28.06	0.00	28.06	1,824.61	912.30	2,179.60	1,076.42	2.20	-0.23	0.032
95.00	-9.79	-0.60	0.00	-27.45	0.00	27.45	1,818.06	909.03	2,158.92	1,066.21	2.25	-0.23	0.031
96.00	-9.65	-0.60	0.00	-26.85	0.00	26.85	1,811.46	905.73	2,138.27	1,056.01	2.30	-0.24	0.031
97.00	-9.51	-0.59	0.00	-26.26	0.00	26.26	1,804.81	902.40	2,117.66	1,045.83	2.35	-0.24	0.030
98.00	-9.36	-0.59	0.00	-25.66	0.00	25.66	1,798.11	899.06	2,097.08	1,035.67	2.40	-0.24	0.030
99.00	-9.22	-0.58	0.00	-25.08	0.00	25.08	1,791.36	895.68	2,076.54	1,025.53	2.45	-0.24	0.030
100.00	-9.08	-0.58	0.00	-24.49	0.00	24.49	1,784.57	892.28	2,056.04	1,015.40	2.50	-0.25	0.029
101.00	-8.94	-0.57	0.00	-23.92	0.00	23.92	1,777.72	888.86	2,035.59	1,005.30	2.55	-0.25	0.029
102.00	-8.60	-0.56	0.00	-23.34	0.00	23.34	1,770.83	885.41	2,015.17	995.22	2.61	-0.25	0.028
103.00	-8.47	-0.56	0.00	-22.78	0.00	22.78	1,763.89	881.94	1,994.79	985.15	2.66	-0.26	0.028
104.00	-8.33	-0.55	0.00	-22.23	0.00	22.23	1,756.90	878.45	1,974.46	975.11	2.71	-0.26	0.028
105.00	-8.19	-0.55	0.00	-21.67	0.00	21.67	1,749.86	874.93	1,954.17	965.09	2.77	-0.26	0.027
106.00	-8.05	-0.54	0.00	-21.13	0.00	21.13	1,742.77	871.38	1,933.93	955.09	2.82	-0.26	0.027
107.00	-7.92	-0.54	0.00	-20.59	0.00	20.59	1,735.63	867.81	1,913.73	945.12	2.88	-0.27	0.026
108.00	-7.78	-0.53	0.00	-20.05	0.00	20.05	1,728.44	864.22	1,893.58	935.17	2.93	-0.27	0.026
109.00	-7.65	-0.53	0.00	-19.52	0.00	19.52	1,721.20	860.60	1,873.48	925.24	2.99	-0.27	0.026
110.00	-7.23	-0.51	0.00	-19.00	0.00	19.00	1,713.92	856.96	1,853.43	915.34	3.05	-0.27	0.025
111.00	-7.10	-0.50	0.00	-18.49	0.00	18.49	1,706.58	853.29	1,833.43	905.46	3.10	-0.28	0.025
112.00	-6.96	-0.50	0.00	-17.99	0.00	17.99	1,699.20	849.60	1,813.48	895.61	3.16	-0.28	0.024
113.00	-6.83	-0.49	0.00	-17.49	0.00	17.49	1,691.77	845.88	1,793.58	885.78	3.22	-0.28	0.024
114.00	-6.70	-0.48	0.00	-17.00	0.00	17.00	1,684.29	842.14	1,773.74	875.98	3.28	-0.28	0.023
115.00	-6.57	-0.48	0.00	-16.51	0.00	16.51	1,676.76	838.38	1,753.95	866.21	3.34	-0.29	0.023
116.00	-6.44	-0.47	0.00	-16.04	0.00	16.04	1,669.18	834.59	1,734.22	856.46	3.40	-0.29	0.023

Site Number: 302501

Code: ANSI/TIA-222-G

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Site Name: Plymouth CT 3, CT

Engineering Number: OAA692457_C3_03

1/11/2017 3:57:44 PM

Customer: AT&T Mobility

117.00	-6.31	-0.47	0.00	-15.56	0.00	15.56	1,661.55	830.78	1,714.54	846.75	3.46	-0.29	0.022
118.00	-6.18	-0.46	0.00	-15.10	0.00	15.10	1,653.87	826.94	1,694.92	837.06	3.52	-0.29	0.022
119.00	-6.06	-0.45	0.00	-14.64	0.00	14.64	1,646.15	823.07	1,675.36	827.40	3.58	-0.30	0.021
120.00	-5.93	-0.45	0.00	-14.18	0.00	14.18	1,638.37	819.19	1,655.86	817.77	3.65	-0.30	0.021
121.00	-5.80	-0.44	0.00	-13.73	0.00	13.73	1,628.70	814.35	1,634.57	807.25	3.71	-0.30	0.021
122.00	-5.68	-0.44	0.00	-13.29	0.00	13.29	1,617.35	808.68	1,611.74	795.98	3.77	-0.30	0.020
123.00	-5.55	-0.43	0.00	-12.85	0.00	12.85	1,606.00	803.00	1,589.07	784.78	3.84	-0.31	0.020
124.00	-5.43	-0.42	0.00	-12.43	0.00	12.43	1,594.66	797.33	1,566.57	773.67	3.90	-0.31	0.019
124.99	-5.43	-0.42	0.00	-12.01	0.00	12.01	1,583.38	791.69	1,544.35	762.70	3.96	-0.31	0.019
124.99	-5.43	-0.42	0.00	-12.01	0.00	12.01	1,139.37	569.69	1,117.16	551.72	3.96	-0.31	0.027
125.00	-5.32	-0.42	0.00	-12.00	0.00	12.00	1,139.34	569.67	1,117.08	551.68	3.96	-0.31	0.026
126.00	-5.22	-0.41	0.00	-11.59	0.00	11.59	1,134.60	567.30	1,104.40	545.42	4.03	-0.31	0.026
127.00	-5.12	-0.41	0.00	-11.17	0.00	11.17	1,129.80	564.90	1,091.75	539.17	4.09	-0.31	0.025
128.00	-5.01	-0.40	0.00	-10.77	0.00	10.77	1,124.96	562.48	1,079.11	532.93	4.16	-0.32	0.025
129.00	-4.91	-0.39	0.00	-10.37	0.00	10.37	1,120.07	560.03	1,066.50	526.70	4.23	-0.32	0.024
130.00	-4.81	-0.39	0.00	-9.97	0.00	9.97	1,115.13	557.56	1,053.90	520.48	4.30	-0.32	0.023
131.00	-4.71	-0.38	0.00	-9.58	0.00	9.58	1,110.14	555.07	1,041.34	514.28	4.36	-0.33	0.023
132.00	-4.61	-0.38	0.00	-9.20	0.00	9.20	1,105.10	552.55	1,028.79	508.08	4.43	-0.33	0.022
133.00	-4.51	-0.37	0.00	-8.82	0.00	8.82	1,100.01	550.01	1,016.28	501.90	4.50	-0.33	0.022
134.00	-4.41	-0.36	0.00	-8.45	0.00	8.45	1,094.88	547.44	1,003.79	495.73	4.57	-0.33	0.021
135.00	-4.31	-0.36	0.00	-8.09	0.00	8.09	1,089.69	544.84	991.33	489.58	4.64	-0.34	0.020
136.00	-4.21	-0.35	0.00	-7.73	0.00	7.73	1,084.45	542.23	978.89	483.44	4.71	-0.34	0.020
137.00	-4.11	-0.35	0.00	-7.38	0.00	7.38	1,079.17	539.59	966.49	477.31	4.78	-0.34	0.019
138.00	-4.02	-0.34	0.00	-7.03	0.00	7.03	1,073.84	536.92	954.12	471.20	4.85	-0.34	0.019
139.00	-3.92	-0.33	0.00	-6.69	0.00	6.69	1,068.46	534.23	941.78	465.11	4.93	-0.34	0.018
140.00	-3.82	-0.33	0.00	-6.36	0.00	6.36	1,063.03	531.51	929.48	459.03	5.00	-0.35	0.017
141.00	-3.73	-0.32	0.00	-6.03	0.00	6.03	1,057.55	528.77	917.21	452.97	5.07	-0.35	0.017
142.00	-3.63	-0.31	0.00	-5.71	0.00	5.71	1,052.02	526.01	904.97	446.93	5.14	-0.35	0.016
143.00	-3.54	-0.31	0.00	-5.40	0.00	5.40	1,046.44	523.22	892.77	440.91	5.22	-0.35	0.016
144.00	-3.44	-0.30	0.00	-5.09	0.00	5.09	1,040.82	520.41	880.61	434.90	5.29	-0.35	0.015
145.00	-3.35	-0.29	0.00	-4.79	0.00	4.79	1,035.14	517.57	868.49	428.91	5.37	-0.36	0.014
146.00	-3.25	-0.29	0.00	-4.49	0.00	4.49	1,029.42	514.71	856.41	422.95	5.44	-0.36	0.014
147.00	-3.16	-0.28	0.00	-4.21	0.00	4.21	1,023.64	511.82	844.36	417.00	5.52	-0.36	0.013
148.00	-3.07	-0.27	0.00	-3.93	0.00	3.93	1,017.82	508.91	832.36	411.07	5.59	-0.36	0.013
149.00	-2.98	-0.27	0.00	-3.65	0.00	3.65	1,011.95	505.97	820.40	405.17	5.67	-0.36	0.012
150.00	-2.34	-0.22	0.00	-3.39	0.00	3.39	1,006.03	503.01	808.49	399.28	5.74	-0.36	0.011
151.00	-2.25	-0.21	0.00	-3.17	0.00	3.17	1,000.06	500.03	796.62	393.42	5.82	-0.37	0.010
152.00	-2.17	-0.20	0.00	-2.96	0.00	2.96	994.04	497.02	784.80	387.58	5.90	-0.37	0.010
153.00	-2.09	-0.20	0.00	-2.76	0.00	2.76	987.57	493.78	772.70	381.61	5.97	-0.37	0.009
154.00	-2.00	-0.19	0.00	-2.56	0.00	2.56	978.74	489.37	758.87	374.78	6.05	-0.37	0.009
155.00	-1.92	-0.18	0.00	-2.37	0.00	2.37	969.92	484.96	745.17	368.01	6.13	-0.37	0.008
156.00	-1.84	-0.18	0.00	-2.19	0.00	2.19	961.09	480.55	731.59	361.31	6.21	-0.37	0.008
157.00	-1.76	-0.17	0.00	-2.01	0.00	2.01	952.26	476.13	718.14	354.66	6.28	-0.37	0.008
158.00	-1.68	-0.16	0.00	-1.84	0.00	1.84	943.44	471.72	704.81	348.08	6.36	-0.37	0.007
159.00	-1.60	-0.16	0.00	-1.68	0.00	1.68	934.61	467.31	691.61	341.56	6.44	-0.37	0.007
160.00	-1.52	-0.15	0.00	-1.52	0.00	1.52	925.79	462.89	678.53	335.10	6.52	-0.38	0.006
161.00	-1.44	-0.14	0.00	-1.37	0.00	1.37	916.96	458.48	665.57	328.70	6.60	-0.38	0.006
162.00	-1.36	-0.13	0.00	-1.23	0.00	1.23	908.13	454.07	652.74	322.37	6.68	-0.38	0.005
163.00	-1.28	-0.13	0.00	-1.10	0.00	1.10	899.31	449.65	640.04	316.09	6.75	-0.38	0.005
164.00	-1.20	-0.12	0.00	-0.97	0.00	0.97	890.48	445.24	627.46	309.88	6.83	-0.38	0.004
165.00	-1.13	-0.11	0.00	-0.85	0.00	0.85	881.65	440.83	615.01	303.73	6.91	-0.38	0.004
166.00	-1.05	-0.11	0.00	-0.73	0.00	0.73	872.83	436.41	602.68	297.64	6.99	-0.38	0.004
167.00	-0.97	-0.10	0.00	-0.63	0.00	0.63	864.00	432.00	590.47	291.61	7.07	-0.38	0.003
168.00	-0.90	-0.09	0.00	-0.53	0.00	0.53	855.17	427.59	578.39	285.65	7.15	-0.38	0.003
169.00	-0.82	-0.08	0.00	-0.44	0.00	0.44	846.35	423.17	566.44	279.74	7.23	-0.38	0.003
170.00	-0.75	-0.08	0.00	-0.35	0.00	0.35	837.52	418.76	554.61	273.90	7.31	-0.38	0.002
171.00	-0.58	-0.06	0.00	-0.28	0.00	0.28	828.70	414.35	542.90	268.12	7.39	-0.38	0.002
172.00	-0.51	-0.05	0.00	-0.22	0.00	0.22	819.87	409.93	531.32	262.40	7.47	-0.38	0.001
173.00	-0.45	-0.05	0.00	-0.16	0.00	0.16	811.04	405.52	519.86	256.74	7.55	-0.38	0.001
174.00	-0.38	-0.04	0.00	-0.11	0.00	0.11	802.22	401.11	508.53	251.15	7.63	-0.38	0.001
175.00	-0.31	-0.03	0.00	-0.07	0.00	0.07	793.39	396.70	497.33	245.61	7.71	-0.38	0.001
176.00	-0.19	-0.02	0.00	-0.04	0.00	0.04	784.56	392.28	486.25	240.14	7.79	-0.38	0.000
177.00	-0.13	-0.01	0.00	-0.02	0.00	0.02	775.74	387.87	475.29	234.73	7.87	-0.38	0.000
178.00	-0.06	-0.01	0.00	-0.01	0.00	0.01	766.91	383.46	464.46	229.38	7.95	-0.38	0.000

179.00	0.00	0.00	0.00	0.00	0.00	0.00	758.08	379.04	453.75	224.09	8.03	-0.38	0.000
180.00	0.00	0.00	0.00	0.00	0.00	0.00	749.26	374.63	443.17	218.87	8.11	-0.38	0.000

Site Number: 302501

Code: ANSI/TIA-222-G

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Site Name: Plymouth CT 3, CT

Engineering Number: OAA692457_C3_03

1/11/2017 3:57:44 PM

Customer: AT&T Mobility

Load Case (0.9 - 0.2Sds) * DL + E ELFMSeismic (Reduced DL) Equivalent Lateral Forces MethodCalculated 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	-21.59	-0.76	0.00	-95.85	0.00	95.85	3,477.38	1,738.69	6,258.10	3,090.64	0.00	0.00	0.037
1.00	-21.43	-0.76	0.00	-95.10	0.00	95.10	3,470.08	1,735.04	6,220.43	3,072.04	0.00	0.00	0.037
2.00	-21.28	-0.76	0.00	-94.34	0.00	94.34	3,462.74	1,731.37	6,182.78	3,053.44	0.00	0.00	0.037
3.00	-21.13	-0.76	0.00	-93.58	0.00	93.58	3,455.35	1,727.67	6,145.14	3,034.85	0.00	-0.01	0.037
4.00	-20.98	-0.76	0.00	-92.82	0.00	92.82	3,447.91	1,723.95	6,107.52	3,016.27	0.00	-0.01	0.037
5.00	-20.83	-0.76	0.00	-92.07	0.00	92.07	3,440.42	1,720.21	6,069.92	2,997.70	0.01	-0.01	0.037
6.00	-20.68	-0.76	0.00	-91.31	0.00	91.31	3,432.88	1,716.44	6,032.34	2,979.14	0.01	-0.01	0.037
7.00	-20.50	-0.76	0.00	-90.55	0.00	90.55	3,425.29	1,712.64	5,994.78	2,960.59	0.01	-0.02	0.037
8.00	-20.33	-0.76	0.00	-89.79	0.00	89.79	3,417.65	1,708.83	5,957.24	2,942.06	0.01	-0.02	0.036
9.00	-20.16	-0.76	0.00	-89.02	0.00	89.02	3,409.97	1,704.98	5,919.72	2,923.53	0.02	-0.02	0.036
10.00	-19.98	-0.76	0.00	-88.26	0.00	88.26	3,402.23	1,701.12	5,882.23	2,905.01	0.02	-0.02	0.036
11.00	-19.81	-0.76	0.00	-87.50	0.00	87.50	3,394.45	1,697.22	5,844.77	2,886.51	0.03	-0.02	0.036
12.00	-19.64	-0.76	0.00	-86.74	0.00	86.74	3,386.61	1,693.31	5,807.33	2,868.02	0.03	-0.03	0.036
13.00	-19.47	-0.76	0.00	-85.97	0.00	85.97	3,378.73	1,689.37	5,769.91	2,849.54	0.04	-0.03	0.036
14.00	-19.30	-0.76	0.00	-85.21	0.00	85.21	3,370.80	1,685.40	5,732.53	2,831.08	0.04	-0.03	0.036
15.00	-19.13	-0.77	0.00	-84.44	0.00	84.44	3,362.82	1,681.41	5,695.17	2,812.63	0.05	-0.03	0.036
16.00	-18.96	-0.77	0.00	-83.68	0.00	83.68	3,354.79	1,677.40	5,657.85	2,794.20	0.06	-0.03	0.036
17.00	-18.80	-0.77	0.00	-82.91	0.00	82.91	3,346.72	1,673.36	5,620.56	2,775.78	0.07	-0.04	0.035
18.00	-18.63	-0.77	0.00	-82.15	0.00	82.15	3,338.59	1,669.29	5,583.30	2,757.38	0.07	-0.04	0.035
19.00	-18.46	-0.77	0.00	-81.38	0.00	81.38	3,330.41	1,665.21	5,546.07	2,738.99	0.08	-0.04	0.035
20.00	-18.30	-0.77	0.00	-80.61	0.00	80.61	3,322.19	1,661.09	5,508.88	2,720.63	0.09	-0.04	0.035
21.00	-18.13	-0.77	0.00	-79.85	0.00	79.85	3,313.92	1,656.96	5,471.72	2,702.28	0.10	-0.05	0.035
22.00	-17.97	-0.77	0.00	-79.08	0.00	79.08	3,305.59	1,652.80	5,434.60	2,683.94	0.11	-0.05	0.035
23.00	-17.80	-0.77	0.00	-78.31	0.00	78.31	3,297.22	1,648.61	5,397.51	2,665.63	0.12	-0.05	0.035
24.00	-17.64	-0.77	0.00	-77.54	0.00	77.54	3,288.80	1,644.40	5,360.47	2,647.33	0.13	-0.05	0.035
25.00	-17.47	-0.77	0.00	-76.78	0.00	76.78	3,280.33	1,640.17	5,323.46	2,629.06	0.14	-0.06	0.035
26.00	-17.31	-0.77	0.00	-76.01	0.00	76.01	3,271.81	1,635.91	5,286.50	2,610.80	0.16	-0.06	0.034
27.00	-17.15	-0.77	0.00	-75.24	0.00	75.24	3,263.25	1,631.62	5,249.58	2,592.57	0.17	-0.06	0.034
28.00	-16.99	-0.77	0.00	-74.47	0.00	74.47	3,254.63	1,627.32	5,212.70	2,574.36	0.18	-0.06	0.034
29.00	-16.83	-0.77	0.00	-73.71	0.00	73.71	3,245.97	1,622.98	5,175.86	2,556.16	0.19	-0.06	0.034
30.00	-16.67	-0.77	0.00	-72.94	0.00	72.94	3,237.25	1,618.63	5,139.07	2,537.99	0.21	-0.07	0.034
31.00	-16.51	-0.77	0.00	-72.17	0.00	72.17	3,228.49	1,614.24	5,102.33	2,519.85	0.22	-0.07	0.034
32.00	-16.35	-0.77	0.00	-71.40	0.00	71.40	3,219.68	1,609.84	5,065.63	2,501.72	0.24	-0.07	0.034
33.00	-16.19	-0.77	0.00	-70.64	0.00	70.64	3,210.82	1,605.41	5,028.98	2,483.62	0.25	-0.07	0.033
34.00	-16.03	-0.77	0.00	-69.87	0.00	69.87	3,201.91	1,600.95	4,992.38	2,465.55	0.27	-0.08	0.033
35.00	-15.88	-0.77	0.00	-69.10	0.00	69.10	3,192.95	1,596.47	4,955.83	2,447.50	0.28	-0.08	0.033
36.00	-15.72	-0.77	0.00	-68.34	0.00	68.34	3,183.94	1,591.97	4,919.33	2,429.47	0.30	-0.08	0.033
37.00	-15.56	-0.76	0.00	-67.57	0.00	67.57	3,174.88	1,587.44	4,882.88	2,411.47	0.32	-0.08	0.033
38.00	-15.41	-0.76	0.00	-66.81	0.00	66.81	3,165.78	1,582.89	4,846.48	2,393.50	0.34	-0.09	0.033
39.00	-15.25	-0.76	0.00	-66.04	0.00	66.04	3,156.62	1,578.31	4,810.14	2,375.55	0.35	-0.09	0.033
40.00	-15.10	-0.76	0.00	-65.28	0.00	65.28	3,147.42	1,573.71	4,773.86	2,357.63	0.37	-0.09	0.032
41.00	-14.95	-0.76	0.00	-64.52	0.00	64.52	3,138.17	1,569.08	4,737.63	2,339.74	0.39	-0.09	0.032
42.00	-14.90	-0.76	0.00	-63.76	0.00	63.76	3,128.87	1,564.43	4,701.46	2,321.87	0.41	-0.10	0.032
42.33	-14.71	-0.76	0.00	-63.50	0.00	63.50	3,125.75	1,562.87	4,689.38	2,315.91	0.42	-0.10	0.032
43.00	-14.44	-0.76	0.00	-63.00	0.00	63.00	3,119.52	1,559.76	4,665.35	2,304.04	0.43	-0.10	0.032
44.00	-14.17	-0.76	0.00	-62.24	0.00	62.24	3,110.12	1,555.06	4,629.29	2,286.23	0.45	-0.10	0.032
45.00	-13.90	-0.75	0.00	-61.48	0.00	61.48	3,100.67	1,550.33	4,593.30	2,268.46	0.47	-0.10	0.032
46.00	-13.63	-0.75	0.00	-60.73	0.00	60.73	3,091.17	1,545.59	4,557.37	2,250.71	0.50	-0.11	0.031
47.00	-13.37	-0.75	0.00	-59.98	0.00	59.98	3,081.63	1,540.81	4,521.50	2,233.00	0.52	-0.11	0.031
48.00	-13.22	-0.75	0.00	-59.23	0.00	59.23	2,760.51	1,380.25	4,116.88	2,033.17	0.54	-0.11	0.034
49.00	-13.08	-0.75	0.00	-58.48	0.00	58.48	2,752.72	1,376.36	4,085.80	2,017.82	0.56	-0.11	0.034
50.00	-12.94	-0.74	0.00	-57.74	0.00	57.74	2,744.89	1,372.44	4,054.76	2,002.49	0.59	-0.11	0.034
51.00	-12.80	-0.74	0.00	-57.00	0.00	57.00	2,737.01	1,368.50	4,023.76	1,987.18	0.61	-0.12	0.033
52.00	-12.67	-0.74	0.00	-56.25	0.00	56.25	2,729.07	1,364.54	3,992.80	1,971.89	0.64	-0.12	0.033
53.00	-12.53	-0.74	0.00	-55.51	0.00	55.51	2,721.09	1,360.55	3,961.88	1,956.62	0.66	-0.12	0.033
54.00	-12.39	-0.74	0.00	-54.77	0.00	54.77	2,713.06	1,356.53	3,931.00	1,941.37	0.69	-0.13	0.033

Site Number: 302501

Code: ANSI/TIA-222-G

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Site Name: Plymouth CT 3, CT

Engineering Number: OAA692457_C3_03

1/11/2017 3:57:44 PM

Customer: AT&T Mobility

55.00	-12.25	-0.74	0.00	-54.03	0.00	54.03	2,704.99	1,352.49	3,900.16	1,926.14	0.71	-0.13	0.033
56.00	-12.12	-0.73	0.00	-53.30	0.00	53.30	2,696.86	1,348.43	3,869.37	1,910.94	0.74	-0.13	0.032
57.00	-11.98	-0.73	0.00	-52.56	0.00	52.56	2,688.68	1,344.34	3,838.62	1,895.75	0.77	-0.13	0.032
58.00	-11.84	-0.73	0.00	-51.83	0.00	51.83	2,680.46	1,340.23	3,807.92	1,880.59	0.80	-0.14	0.032
59.00	-11.71	-0.73	0.00	-51.10	0.00	51.10	2,672.18	1,336.09	3,777.27	1,865.45	0.83	-0.14	0.032
60.00	-11.57	-0.73	0.00	-50.37	0.00	50.37	2,663.86	1,331.93	3,746.66	1,850.34	0.86	-0.14	0.032
61.00	-11.44	-0.72	0.00	-49.64	0.00	49.64	2,655.49	1,327.74	3,716.11	1,835.24	0.88	-0.14	0.031
62.00	-11.31	-0.72	0.00	-48.92	0.00	48.92	2,647.07	1,323.53	3,685.60	1,820.18	0.92	-0.15	0.031
63.00	-11.17	-0.72	0.00	-48.20	0.00	48.20	2,638.60	1,319.30	3,655.15	1,805.14	0.95	-0.15	0.031
64.00	-11.04	-0.72	0.00	-47.48	0.00	47.48	2,630.08	1,315.04	3,624.74	1,790.12	0.98	-0.15	0.031
65.00	-10.91	-0.72	0.00	-46.76	0.00	46.76	2,621.51	1,310.76	3,594.39	1,775.14	1.01	-0.15	0.031
66.00	-10.78	-0.71	0.00	-46.04	0.00	46.04	2,612.90	1,306.45	3,564.10	1,760.18	1.04	-0.16	0.030
67.00	-10.65	-0.71	0.00	-45.33	0.00	45.33	2,604.23	1,302.11	3,533.86	1,745.24	1.07	-0.16	0.030
68.00	-10.52	-0.71	0.00	-44.62	0.00	44.62	2,595.52	1,297.76	3,503.68	1,730.34	1.11	-0.16	0.030
69.00	-10.39	-0.70	0.00	-43.91	0.00	43.91	2,586.75	1,293.38	3,473.55	1,715.46	1.14	-0.16	0.030
70.00	-10.26	-0.70	0.00	-43.21	0.00	43.21	2,577.94	1,288.97	3,443.49	1,700.61	1.18	-0.17	0.029
71.00	-10.13	-0.70	0.00	-42.51	0.00	42.51	2,569.08	1,284.54	3,413.48	1,685.79	1.21	-0.17	0.029
72.00	-10.00	-0.70	0.00	-41.81	0.00	41.81	2,560.17	1,280.08	3,383.54	1,671.00	1.25	-0.17	0.029
73.00	-9.87	-0.69	0.00	-41.11	0.00	41.11	2,551.21	1,275.60	3,353.65	1,656.24	1.28	-0.17	0.029
74.00	-9.75	-0.69	0.00	-40.42	0.00	40.42	2,542.20	1,271.10	3,323.83	1,641.51	1.32	-0.18	0.028
75.00	-9.62	-0.69	0.00	-39.73	0.00	39.73	2,533.14	1,266.57	3,294.07	1,626.82	1.36	-0.18	0.028
76.00	-9.50	-0.68	0.00	-39.04	0.00	39.04	2,524.04	1,262.02	3,264.38	1,612.15	1.39	-0.18	0.028
77.00	-9.37	-0.68	0.00	-38.36	0.00	38.36	2,514.88	1,257.44	3,234.75	1,597.52	1.43	-0.18	0.028
78.00	-9.25	-0.68	0.00	-37.68	0.00	37.68	2,505.68	1,252.84	3,205.19	1,582.92	1.47	-0.19	0.027
79.00	-9.12	-0.67	0.00	-37.00	0.00	37.00	2,496.42	1,248.21	3,175.70	1,568.36	1.51	-0.19	0.027
80.00	-9.00	-0.67	0.00	-36.33	0.00	36.33	2,487.12	1,243.56	3,146.28	1,553.83	1.55	-0.19	0.027
81.00	-8.88	-0.67	0.00	-35.66	0.00	35.66	2,477.77	1,238.89	3,116.92	1,539.33	1.59	-0.19	0.027
82.00	-8.75	-0.66	0.00	-35.00	0.00	35.00	2,468.37	1,234.19	3,087.64	1,524.87	1.63	-0.20	0.026
83.00	-8.63	-0.66	0.00	-34.34	0.00	34.34	2,458.92	1,229.46	3,058.43	1,510.45	1.67	-0.20	0.026
84.00	-8.51	-0.65	0.00	-33.68	0.00	33.68	2,449.43	1,224.71	3,029.30	1,496.06	1.71	-0.20	0.026
85.00	-8.50	-0.65	0.00	-33.03	0.00	33.03	2,438.96	1,219.48	2,999.10	1,481.15	1.75	-0.20	0.026
85.08	-8.32	-0.65	0.00	-32.97	0.00	32.97	2,437.79	1,218.90	2,996.22	1,479.72	1.76	-0.20	0.026
86.00	-8.12	-0.64	0.00	-32.38	0.00	32.38	2,425.09	1,212.55	2,964.90	1,464.25	1.80	-0.21	0.025
87.00	-7.92	-0.63	0.00	-31.74	0.00	31.74	2,411.22	1,205.61	2,930.89	1,447.45	1.84	-0.21	0.025
88.00	-7.72	-0.62	0.00	-31.11	0.00	31.11	2,397.35	1,198.68	2,897.07	1,430.76	1.88	-0.21	0.025
89.00	-7.52	-0.62	0.00	-30.48	0.00	30.48	2,383.48	1,191.74	2,863.46	1,414.15	1.93	-0.21	0.025
90.00	-7.52	-0.62	0.00	-29.86	0.00	29.86	2,369.61	1,184.81	2,830.03	1,397.65	1.97	-0.22	0.025
90.00	-7.42	-0.61	0.00	-29.86	0.00	29.86	1,850.32	925.16	2,262.65	1,117.44	1.97	-0.22	0.031
91.00	-7.20	-0.60	0.00	-29.25	0.00	29.25	1,843.97	921.98	2,241.86	1,107.17	2.02	-0.22	0.030
92.00	-7.10	-0.60	0.00	-28.65	0.00	28.65	1,837.56	918.78	2,221.07	1,096.90	2.07	-0.22	0.030
93.00	-7.00	-0.60	0.00	-28.05	0.00	28.05	1,831.11	915.56	2,200.32	1,086.66	2.11	-0.22	0.030
94.00	-6.90	-0.59	0.00	-27.45	0.00	27.45	1,824.61	912.30	2,179.60	1,076.42	2.16	-0.23	0.029
95.00	-6.80	-0.59	0.00	-26.86	0.00	26.86	1,818.06	909.03	2,158.92	1,066.21	2.21	-0.23	0.029
96.00	-6.70	-0.58	0.00	-26.27	0.00	26.27	1,811.46	905.73	2,138.27	1,056.01	2.25	-0.23	0.029
97.00	-6.60	-0.58	0.00	-25.69	0.00	25.69	1,804.81	902.40	2,117.66	1,045.83	2.30	-0.23	0.028
98.00	-6.50	-0.57	0.00	-25.11	0.00	25.11	1,798.11	899.06	2,097.08	1,035.67	2.35	-0.24	0.028
99.00	-6.40	-0.57	0.00	-24.53	0.00	24.53	1,791.36	895.68	2,076.54	1,025.53	2.40	-0.24	0.027
100.00	-6.30	-0.57	0.00	-23.96	0.00	23.96	1,784.57	892.28	2,056.04	1,015.40	2.45	-0.24	0.027
101.00	-6.21	-0.56	0.00	-23.40	0.00	23.40	1,777.72	888.86	2,035.59	1,005.30	2.50	-0.24	0.027
102.00	-5.97	-0.55	0.00	-22.84	0.00	22.84	1,770.83	885.41	2,015.17	995.22	2.56	-0.25	0.026
103.00	-5.88	-0.54	0.00	-22.29	0.00	22.29	1,763.89	881.94	1,994.79	985.15	2.61	-0.25	0.026
104.00	-5.78	-0.54	0.00	-21.74	0.00	21.74	1,756.90	878.45	1,974.46	975.11	2.66	-0.25	0.026
105.00	-5.69	-0.53	0.00	-21.20	0.00	21.20	1,749.86	874.93	1,954.17	965.09	2.71	-0.26	0.025
106.00	-5.59	-0.53	0.00	-20.67	0.00	20.67	1,742.77	871.38	1,933.93	955.09	2.77	-0.26	0.025
107.00	-5.50	-0.52	0.00	-20.14	0.00	20.14	1,735.63	867.81	1,913.73	945.12	2.82	-0.26	0.024
108.00	-5.40	-0.52	0.00	-19.61	0.00	19.61	1,728.44	864.22	1,893.58	935.17	2.88	-0.26	0.024
109.00	-5.31	-0.51	0.00	-19.10	0.00	19.10	1,721.20	860.60	1,873.48	925.24	2.93	-0.27	0.024
110.00	-5.02	-0.50	0.00	-18.58	0.00	18.58	1,713.92	856.96	1,853.43	915.34	2.99	-0.27	0.023
111.00	-4.93	-0.49	0.00	-18.09	0.00	18.09	1,706.58	853.29	1,833.43	905.46	3.04	-0.27	0.023
112.00	-4.83	-0.49	0.00	-17.59	0.00	17.59	1,699.20	849.60	1,813.48	895.61	3.10	-0.27	0.022
113.00	-4.74	-0.48	0.00	-17.11	0.00	17.11	1,691.77	845.88	1,793.58	885.78	3.16	-0.28	0.022
114.00	-4.65	-0.47	0.00	-16.63	0.00	16.63	1,684.29	842.14	1,773.74	875.98	3.22	-0.28	0.022
115.00	-4.56	-0.47	0.00	-16.15	0.00	16.15	1,676.76	838.38	1,753.95	866.21	3.28	-0.28	0.021
116.00	-4.47	-0.46	0.00	-15.69	0.00	15.69	1,669.18	834.59	1,734.22	856.46	3.33	-0.28	0.021

Site Number: 302501

Code: ANSI/TIA-222-G

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Site Name: Plymouth CT 3, CT

Engineering Number: OAA692457_C3_03

1/11/2017 3:57:44 PM

Customer: AT&T Mobility

117.00	-4.38	-0.46	0.00	-15.22	0.00	15.22	1,661.55	830.78	1,714.54	846.75	3.39	-0.29	0.021
118.00	-4.29	-0.45	0.00	-14.77	0.00	14.77	1,653.87	826.94	1,694.92	837.06	3.45	-0.29	0.020
119.00	-4.20	-0.44	0.00	-14.32	0.00	14.32	1,646.15	823.07	1,675.36	827.40	3.51	-0.29	0.020
120.00	-4.12	-0.44	0.00	-13.87	0.00	13.87	1,638.37	819.19	1,655.86	817.77	3.58	-0.29	0.019
121.00	-4.03	-0.43	0.00	-13.43	0.00	13.43	1,628.70	814.35	1,634.57	807.25	3.64	-0.29	0.019
122.00	-3.94	-0.43	0.00	-13.00	0.00	13.00	1,617.35	808.68	1,611.74	795.98	3.70	-0.30	0.019
123.00	-3.85	-0.42	0.00	-12.57	0.00	12.57	1,606.00	803.00	1,589.07	784.78	3.76	-0.30	0.018
124.00	-3.77	-0.41	0.00	-12.15	0.00	12.15	1,594.66	797.33	1,566.57	773.67	3.82	-0.30	0.018
124.99	-3.77	-0.41	0.00	-11.74	0.00	11.74	1,583.38	791.69	1,544.35	762.70	3.89	-0.30	0.018
124.99	-3.77	-0.41	0.00	-11.74	0.00	11.74	1,139.37	569.69	1,117.16	551.72	3.89	-0.30	0.025
125.00	-3.69	-0.41	0.00	-11.74	0.00	11.74	1,139.34	569.67	1,117.08	551.68	3.89	-0.30	0.025
126.00	-3.62	-0.40	0.00	-11.33	0.00	11.33	1,134.60	567.30	1,104.40	545.42	3.95	-0.31	0.024
127.00	-3.55	-0.40	0.00	-10.93	0.00	10.93	1,129.80	564.90	1,091.75	539.17	4.02	-0.31	0.023
128.00	-3.48	-0.39	0.00	-10.53	0.00	10.53	1,124.96	562.48	1,079.11	532.93	4.08	-0.31	0.023
129.00	-3.41	-0.39	0.00	-10.14	0.00	10.14	1,120.07	560.03	1,066.50	526.70	4.15	-0.31	0.022
130.00	-3.34	-0.38	0.00	-9.76	0.00	9.76	1,115.13	557.56	1,053.90	520.48	4.21	-0.32	0.022
131.00	-3.27	-0.37	0.00	-9.38	0.00	9.38	1,110.14	555.07	1,041.34	514.28	4.28	-0.32	0.021
132.00	-3.20	-0.37	0.00	-9.00	0.00	9.00	1,105.10	552.55	1,028.79	508.08	4.35	-0.32	0.021
133.00	-3.13	-0.36	0.00	-8.63	0.00	8.63	1,100.01	550.01	1,016.28	501.90	4.41	-0.32	0.020
134.00	-3.06	-0.36	0.00	-8.27	0.00	8.27	1,094.88	547.44	1,003.79	495.73	4.48	-0.33	0.019
135.00	-2.99	-0.35	0.00	-7.91	0.00	7.91	1,089.69	544.84	991.33	489.58	4.55	-0.33	0.019
136.00	-2.92	-0.34	0.00	-7.56	0.00	7.56	1,084.45	542.23	978.89	483.44	4.62	-0.33	0.018
137.00	-2.86	-0.34	0.00	-7.22	0.00	7.22	1,079.17	539.59	966.49	477.31	4.69	-0.33	0.018
138.00	-2.79	-0.33	0.00	-6.88	0.00	6.88	1,073.84	536.92	954.12	471.20	4.76	-0.34	0.017
139.00	-2.72	-0.33	0.00	-6.55	0.00	6.55	1,068.46	534.23	941.78	465.11	4.83	-0.34	0.017
140.00	-2.65	-0.32	0.00	-6.22	0.00	6.22	1,063.03	531.51	929.48	459.03	4.90	-0.34	0.016
141.00	-2.59	-0.31	0.00	-5.90	0.00	5.90	1,057.55	528.77	917.21	452.97	4.97	-0.34	0.015
142.00	-2.52	-0.31	0.00	-5.59	0.00	5.59	1,052.02	526.01	904.97	446.93	5.04	-0.34	0.015
143.00	-2.45	-0.30	0.00	-5.28	0.00	5.28	1,046.44	523.22	892.77	440.91	5.11	-0.35	0.014
144.00	-2.39	-0.29	0.00	-4.98	0.00	4.98	1,040.82	520.41	880.61	434.90	5.19	-0.35	0.014
145.00	-2.32	-0.29	0.00	-4.69	0.00	4.69	1,035.14	517.57	868.49	428.91	5.26	-0.35	0.013
146.00	-2.26	-0.28	0.00	-4.40	0.00	4.40	1,029.42	514.71	856.41	422.95	5.33	-0.35	0.013
147.00	-2.19	-0.27	0.00	-4.12	0.00	4.12	1,023.64	511.82	844.36	417.00	5.41	-0.35	0.012
148.00	-2.13	-0.27	0.00	-3.84	0.00	3.84	1,017.82	508.91	832.36	411.07	5.48	-0.35	0.011
149.00	-2.07	-0.26	0.00	-3.58	0.00	3.58	1,011.95	505.97	820.40	405.17	5.56	-0.36	0.011
150.00	-1.62	-0.21	0.00	-3.32	0.00	3.32	1,006.03	503.01	808.49	399.28	5.63	-0.36	0.010
151.00	-1.56	-0.21	0.00	-3.10	0.00	3.10	1,000.06	500.03	796.62	393.42	5.70	-0.36	0.009
152.00	-1.51	-0.20	0.00	-2.90	0.00	2.90	994.04	497.02	784.80	387.58	5.78	-0.36	0.009
153.00	-1.45	-0.19	0.00	-2.70	0.00	2.70	987.57	493.78	772.70	381.61	5.85	-0.36	0.009
154.00	-1.39	-0.19	0.00	-2.51	0.00	2.51	978.74	489.37	758.87	374.78	5.93	-0.36	0.008
155.00	-1.33	-0.18	0.00	-2.32	0.00	2.32	969.92	484.96	745.17	368.01	6.01	-0.36	0.008
156.00	-1.28	-0.17	0.00	-2.14	0.00	2.14	961.09	480.55	731.59	361.31	6.08	-0.36	0.007
157.00	-1.22	-0.17	0.00	-1.97	0.00	1.97	952.26	476.13	718.14	354.66	6.16	-0.36	0.007
158.00	-1.16	-0.16	0.00	-1.80	0.00	1.80	943.44	471.72	704.81	348.08	6.24	-0.37	0.006
159.00	-1.11	-0.15	0.00	-1.64	0.00	1.64	934.61	467.31	691.61	341.56	6.31	-0.37	0.006
160.00	-1.05	-0.15	0.00	-1.49	0.00	1.49	925.79	462.89	678.53	335.10	6.39	-0.37	0.006
161.00	-1.00	-0.14	0.00	-1.34	0.00	1.34	916.96	458.48	665.57	328.70	6.47	-0.37	0.005
162.00	-0.94	-0.13	0.00	-1.21	0.00	1.21	908.13	454.07	652.74	322.37	6.54	-0.37	0.005
163.00	-0.89	-0.13	0.00	-1.07	0.00	1.07	899.31	449.65	640.04	316.09	6.62	-0.37	0.004
164.00	-0.84	-0.12	0.00	-0.95	0.00	0.95	890.48	445.24	627.46	309.88	6.70	-0.37	0.004
165.00	-0.78	-0.11	0.00	-0.83	0.00	0.83	881.65	440.83	615.01	303.73	6.78	-0.37	0.004
166.00	-0.73	-0.10	0.00	-0.72	0.00	0.72	872.83	436.41	602.68	297.64	6.85	-0.37	0.003
167.00	-0.68	-0.10	0.00	-0.62	0.00	0.62	864.00	432.00	590.47	291.61	6.93	-0.37	0.003
168.00	-0.62	-0.09	0.00	-0.52	0.00	0.52	855.17	427.59	578.39	285.65	7.01	-0.37	0.003
169.00	-0.57	-0.08	0.00	-0.43	0.00	0.43	846.35	423.17	566.44	279.74	7.09	-0.37	0.002
170.00	-0.52	-0.08	0.00	-0.35	0.00	0.35	837.52	418.76	554.61	273.90	7.17	-0.37	0.002
171.00	-0.40	-0.06	0.00	-0.27	0.00	0.27	828.70	414.35	542.90	268.12	7.24	-0.37	0.001
172.00	-0.36	-0.05	0.00	-0.21	0.00	0.21	819.87	409.93	531.32	262.40	7.32	-0.37	0.001
173.00	-0.31	-0.05	0.00	-0.16	0.00	0.16	811.04	405.52	519.86	256.74	7.40	-0.37	0.001
174.00	-0.26	-0.04	0.00	-0.11	0.00	0.11	802.22	401.11	508.53	251.15	7.48	-0.37	0.001
175.00	-0.22	-0.03	0.00	-0.07	0.00	0.07	793.39	396.70	497.33	245.61	7.56	-0.37	0.001
176.00	-0.13	-0.02	0.00	-0.04	0.00	0.04	784.56	392.28	486.25	240.14	7.64	-0.37	0.000
177.00	-0.09	-0.01	0.00	-0.02	0.00	0.02	775.74	387.87	475.29	234.73	7.71	-0.37	0.000
178.00	-0.04	-0.01	0.00	-0.01	0.00	0.01	766.91	383.46	464.46	229.38	7.79	-0.37	0.000

179.00	0.00	0.00	0.00	0.00	0.00	0.00	758.08	379.04	453.75	224.09	7.87	-0.37	0.000
180.00	0.00	0.00	0.00	0.00	0.00	0.00	749.26	374.63	443.17	218.87	7.95	-0.37	0.000

Site Number: 302501	Code: ANSI/TIA-222-G	© 2007 - 2017 by ATC IP LLC. All rights reserved.
Site Name: Plymouth CT 3, CT	Engineering Number: OAA692457_C3_03	1/11/2017 3:57:44 PM
Customer: AT&T Mobility		

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):	0.19
Spectral Response Acceleration at 1.0 Second Period (S_1):	0.06
Importance Factor (I_E):	1.00
Site Coefficient F_a :	1.60
Site Coefficient F_v :	2.40
Response Modification Coefficient (R):	1.50
Design Spectral Response Acceleration at Short Period (S_{ds}):	0.20
Design Spectral Response Acceleration at 1.0 Second Period (S_{d1}):	0.10
Period Based on Rayleigh Method (sec):	3.31
Redundancy Factor (p):	1.30

Load Case (1.2 + 0.2S_{ds}) * DL + E EMAM

Seismic Equivalent Modal Analysis Method

Segment	Height Above Base (ft)	Weight (lb)	a	b	c	S _{az}	Horizontal Force (lb)	Vertical Force (lb)
184	179.50	51	1.880	1.925	1.120	0.364	16	63
183	178.50	52	1.859	1.819	1.081	0.350	16	64
182	177.50	52	1.838	1.716	1.044	0.336	15	64
181	176.50	52	1.817	1.618	1.007	0.323	15	65
180	175.50	53	1.797	1.523	0.972	0.310	14	66
179	174.50	54	1.776	1.433	0.937	0.297	14	67
178	173.50	54	1.756	1.346	0.903	0.285	13	67
177	172.50	54	1.736	1.263	0.871	0.272	13	68
176	171.50	55	1.716	1.183	0.839	0.260	12	68
175	170.50	60	1.696	1.106	0.808	0.248	13	75
174	169.50	61	1.676	1.033	0.778	0.237	12	75
173	168.50	61	1.656	0.963	0.749	0.225	12	76
172	167.50	61	1.637	0.896	0.721	0.214	11	76
171	166.50	62	1.617	0.832	0.694	0.203	11	77
170	165.50	62	1.598	0.772	0.667	0.192	10	77
169	164.50	63	1.579	0.713	0.641	0.182	10	78
168	163.50	63	1.559	0.658	0.616	0.172	9	78
167	162.50	63	1.540	0.605	0.592	0.162	9	79
166	161.50	64	1.521	0.555	0.569	0.152	8	79
165	160.50	64	1.503	0.508	0.546	0.142	8	80
164	159.50	65	1.484	0.462	0.524	0.133	7	80
163	158.50	65	1.465	0.420	0.503	0.124	7	81
162	157.50	66	1.447	0.379	0.482	0.115	7	81
161	156.50	66	1.429	0.340	0.462	0.106	6	82
160	155.50	66	1.411	0.304	0.443	0.098	6	82
159	154.50	67	1.392	0.270	0.424	0.090	5	83
158	153.50	67	1.374	0.237	0.406	0.082	5	83
157	152.50	68	1.357	0.207	0.388	0.074	4	84
156	151.50	68	1.339	0.178	0.372	0.066	4	84
155	150.50	68	1.321	0.151	0.355	0.059	3	85
154	149.50	74	1.304	0.126	0.339	0.052	3	92
153	148.50	75	1.286	0.102	0.324	0.045	3	92
152	147.50	75	1.269	0.080	0.309	0.038	2	93
151	146.50	75	1.252	0.059	0.295	0.031	2	93

Site Number: 302501

Code: ANSI/TIA-222-G

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Site Name: Plymouth CT 3, CT

Engineering Number: OAA692457_C3_03

1/11/2017 3:57:44 PM

Customer: AT&T Mobility

150	145.50	76	1.235	0.040	0.282	0.025	2	94
149	144.50	76	1.218	0.022	0.268	0.019	1	94
148	143.50	77	1.201	0.006	0.256	0.013	1	95
147	142.50	77	1.185	-0.009	0.243	0.008	1	95
146	141.50	77	1.168	-0.023	0.232	0.002	0	96
145	140.50	78	1.152	-0.036	0.220	-0.003	0	96
144	139.50	78	1.135	-0.048	0.209	-0.008	-1	97
143	138.50	79	1.119	-0.059	0.199	-0.013	-1	97
142	137.50	79	1.103	-0.068	0.189	-0.018	-1	98
141	136.50	79	1.087	-0.077	0.179	-0.022	-2	99
140	135.50	80	1.071	-0.085	0.170	-0.026	-2	99
139	134.50	80	1.055	-0.092	0.161	-0.030	-2	100
138	133.50	81	1.040	-0.098	0.152	-0.034	-2	100
137	132.50	81	1.024	-0.103	0.144	-0.037	-3	101
136	131.50	82	1.009	-0.108	0.136	-0.041	-3	101
135	130.50	82	0.993	-0.111	0.128	-0.044	-3	102
134	129.50	82	0.978	-0.115	0.121	-0.047	-3	102
133	128.50	83	0.963	-0.117	0.114	-0.050	-4	103
132	127.50	83	0.948	-0.119	0.107	-0.052	-4	103
131	126.50	84	0.933	-0.121	0.101	-0.054	-4	104
130	125.50	84	0.919	-0.121	0.095	-0.056	-4	104
129	125.00	0	0.911	-0.122	0.092	-0.057	0	1
128	124.50	100	0.904	-0.122	0.089	-0.058	-5	124
127	123.50	101	0.890	-0.122	0.083	-0.060	-5	125
126	122.50	102	0.875	-0.121	0.078	-0.061	-5	126
125	121.50	102	0.861	-0.120	0.073	-0.062	-6	127
124	120.50	103	0.847	-0.119	0.068	-0.063	-6	127
123	119.50	103	0.833	-0.117	0.064	-0.064	-6	128
122	118.50	104	0.819	-0.115	0.059	-0.065	-6	128
121	117.50	104	0.805	-0.113	0.055	-0.065	-6	129
120	116.50	105	0.792	-0.110	0.051	-0.065	-6	130
119	115.50	105	0.778	-0.108	0.048	-0.065	-6	130
118	114.50	106	0.765	-0.104	0.044	-0.064	-6	131
117	113.50	106	0.751	-0.101	0.041	-0.064	-6	132
116	112.50	107	0.738	-0.098	0.038	-0.063	-6	132
115	111.50	107	0.725	-0.094	0.035	-0.062	-6	133
114	110.50	108	0.712	-0.091	0.032	-0.060	-6	134
113	109.50	109	0.699	-0.087	0.030	-0.059	-6	135
112	108.50	109	0.687	-0.083	0.027	-0.057	-5	135
111	107.50	110	0.674	-0.079	0.025	-0.055	-5	136
110	106.50	110	0.662	-0.075	0.023	-0.053	-5	137
109	105.50	111	0.649	-0.070	0.021	-0.050	-5	137
108	104.50	111	0.637	-0.066	0.019	-0.048	-5	138
107	103.50	112	0.625	-0.062	0.018	-0.045	-4	139
106	102.50	112	0.613	-0.058	0.016	-0.042	-4	139
105	101.50	113	0.601	-0.053	0.015	-0.038	-4	140
104	100.50	114	0.589	-0.049	0.013	-0.035	-3	141
103	99.50	114	0.578	-0.045	0.012	-0.031	-3	141
102	98.50	115	0.566	-0.040	0.011	-0.028	-3	142
101	97.50	115	0.555	-0.036	0.010	-0.024	-2	143
100	96.50	116	0.543	-0.032	0.009	-0.020	-2	143
99	95.50	116	0.532	-0.028	0.009	-0.016	-2	144
98	94.50	117	0.521	-0.024	0.008	-0.012	-1	145
97	93.50	117	0.510	-0.020	0.007	-0.008	-1	145
96	92.50	118	0.499	-0.016	0.007	-0.004	0	146
95	91.50	118	0.488	-0.012	0.007	0.000	0	147
94	90.50	119	0.478	-0.008	0.006	0.004	0	148
93	90.00	0	0.473	-0.006	0.006	0.006	0	0
92	89.50	229	0.467	-0.004	0.006	0.008	2	284
91	88.50	231	0.457	-0.001	0.006	0.012	2	286
90	87.50	232	0.447	0.003	0.006	0.016	3	287
89	86.50	233	0.436	0.006	0.006	0.019	4	289
88	85.54	214	0.427	0.009	0.006	0.022	4	266
87	85.04	12	0.422	0.011	0.006	0.024	0	15

Site Number: 302501 Code: ANSI/TIA-222-G © 2007 - 2017 by ATC IP LLC. All rights reserved.
 Site Name: Plymouth CT 3, CT Engineering Number: OAA692457_C3_03 1/11/2017 3:57:44 PM
 Customer: AT&T Mobility

86	84.50	141	0.417	0.013	0.006	0.026	3	175
85	83.50	142	0.407	0.016	0.006	0.029	4	175
84	82.50	142	0.397	0.019	0.007	0.032	4	176
83	81.50	143	0.387	0.022	0.007	0.035	4	177
82	80.50	143	0.378	0.025	0.007	0.038	5	178
81	79.50	144	0.369	0.028	0.008	0.040	5	179
80	78.50	145	0.359	0.030	0.008	0.043	5	179
79	77.50	145	0.350	0.033	0.009	0.045	6	180
78	76.50	146	0.341	0.035	0.009	0.047	6	181
77	75.50	147	0.333	0.037	0.010	0.049	6	182
76	74.50	147	0.324	0.040	0.010	0.050	6	183
75	73.50	148	0.315	0.042	0.011	0.052	7	183
74	72.50	149	0.307	0.044	0.012	0.053	7	184
73	71.50	149	0.298	0.046	0.012	0.054	7	185
72	70.50	150	0.290	0.048	0.013	0.056	7	186
71	69.50	151	0.282	0.049	0.014	0.056	7	187
70	68.50	151	0.274	0.051	0.015	0.057	8	187
69	67.50	152	0.266	0.052	0.015	0.058	8	188
68	66.50	152	0.258	0.054	0.016	0.059	8	189
67	65.50	153	0.250	0.055	0.017	0.059	8	190
66	64.50	154	0.243	0.057	0.018	0.060	8	191
65	63.50	154	0.235	0.058	0.019	0.060	8	191
64	62.50	155	0.228	0.059	0.020	0.060	8	192
63	61.50	156	0.221	0.060	0.021	0.061	8	193
62	60.50	156	0.214	0.061	0.021	0.061	8	194
61	59.50	157	0.207	0.062	0.022	0.061	8	195
60	58.50	158	0.200	0.063	0.023	0.061	8	195
59	57.50	158	0.193	0.064	0.024	0.061	8	196
58	56.50	159	0.186	0.064	0.025	0.061	8	197
57	55.50	160	0.180	0.065	0.026	0.061	8	198
56	54.50	160	0.173	0.066	0.027	0.061	8	198
55	53.50	161	0.167	0.066	0.028	0.061	8	199
54	52.50	161	0.161	0.067	0.029	0.061	8	200
53	51.50	162	0.155	0.068	0.029	0.061	8	201
52	50.50	163	0.149	0.068	0.030	0.060	9	202
51	49.50	163	0.143	0.068	0.031	0.060	9	202
50	48.50	164	0.137	0.069	0.032	0.060	9	203
49	47.50	311	0.132	0.069	0.033	0.060	16	385
48	46.50	312	0.126	0.070	0.034	0.059	16	387
47	45.50	313	0.121	0.070	0.034	0.059	16	388
46	44.50	315	0.116	0.070	0.035	0.059	16	390
45	43.50	316	0.110	0.070	0.036	0.059	16	392
44	42.67	211	0.106	0.071	0.036	0.059	11	262
43	42.17	59	0.104	0.071	0.037	0.058	3	74
42	41.50	178	0.100	0.071	0.037	0.058	9	221
41	40.50	179	0.096	0.071	0.038	0.058	9	222
40	39.50	180	0.091	0.071	0.038	0.058	9	223
39	38.50	180	0.086	0.071	0.039	0.058	9	224
38	37.50	181	0.082	0.072	0.039	0.057	9	224
37	36.50	182	0.078	0.072	0.040	0.057	9	225
36	35.50	182	0.074	0.072	0.040	0.057	9	226
35	34.50	183	0.069	0.072	0.041	0.057	9	227
34	33.50	184	0.065	0.072	0.041	0.056	9	228
33	32.50	185	0.062	0.072	0.041	0.056	9	229
32	31.50	185	0.058	0.072	0.041	0.056	9	230
31	30.50	186	0.054	0.071	0.042	0.056	9	230
30	29.50	187	0.051	0.071	0.042	0.055	9	231
29	28.50	187	0.047	0.071	0.042	0.055	9	232
28	27.50	188	0.044	0.071	0.042	0.055	9	233
27	26.50	189	0.041	0.070	0.042	0.055	9	234
26	25.50	189	0.038	0.070	0.041	0.054	9	235
25	24.50	190	0.035	0.069	0.041	0.054	9	236
24	23.50	191	0.032	0.069	0.041	0.054	9	237
23	22.50	192	0.030	0.068	0.040	0.053	9	237

Site Number: 302501 Code: ANSI/TIA-222-G © 2007 - 2017 by ATC IP LLC. All rights reserved.
 Site Name: Plymouth CT 3, CT Engineering Number: OAA692457_C3_03 1/11/2017 3:57:44 PM
 Customer: AT&T Mobility

22	21.50	192	0.027	0.067	0.040	0.053	9	238
21	20.50	193	0.025	0.066	0.039	0.052	9	239
20	19.50	194	0.022	0.065	0.039	0.052	9	240
19	18.50	194	0.020	0.064	0.038	0.051	9	241
18	17.50	195	0.018	0.063	0.037	0.050	8	242
17	16.50	196	0.016	0.061	0.036	0.049	8	243
16	15.50	196	0.014	0.060	0.035	0.048	8	243
15	14.50	197	0.012	0.058	0.034	0.047	8	244
14	13.50	198	0.011	0.056	0.032	0.046	8	245
13	12.50	199	0.009	0.054	0.031	0.045	8	246
12	11.50	199	0.008	0.051	0.029	0.044	8	247
11	10.50	200	0.006	0.048	0.028	0.042	7	248
10	9.50	201	0.005	0.045	0.026	0.040	7	249
9	8.50	201	0.004	0.042	0.024	0.038	7	250
8	7.50	202	0.003	0.039	0.022	0.035	6	250
7	6.50	175	0.002	0.035	0.019	0.033	5	217
6	5.50	175	0.002	0.030	0.017	0.030	4	217
5	4.50	176	0.001	0.026	0.014	0.026	4	218
4	3.50	177	0.001	0.021	0.011	0.022	3	219
3	2.50	178	0.000	0.015	0.008	0.017	3	220
2	1.50	178	0.000	0.010	0.005	0.011	2	221
1	0.50	179	0.000	0.003	0.002	0.004	1	222
Andrew ABT-DFDM-ADB	185.00	1	1.996	2.590	1.353	0.444	0	1
Powerwave LGP21901	185.00	33	1.996	2.590	1.353	0.444	13	41
Powerwave LGP21401	185.00	85	1.996	2.590	1.353	0.444	33	105
Raycap DC6-48-60-18-	185.00	32	1.996	2.590	1.353	0.444	12	39
Ericsson RRUS A2 Mod	185.00	66	1.996	2.590	1.353	0.444	25	82
Ericsson RRUS 32 B2	185.00	159	1.996	2.590	1.353	0.444	61	197
Ericsson RRUS 11 B12	185.00	152	1.996	2.590	1.353	0.444	58	189
Powerwave 7770.00	185.00	105	1.996	2.590	1.353	0.444	40	130
Powerwave 7770.00	185.00	105	1.996	2.590	1.353	0.444	40	130
CCI HPA-65R-BUU-H6	185.00	153	1.996	2.590	1.353	0.444	59	190
Round Low Profile PI	185.00	1,500	1.996	2.590	1.353	0.444	577	1,859
Motorola PTP 800 ODU	176.00	20	1.807	1.570	0.989	0.316	6	25
Radio Waves HPD2-4.7	176.00	27	1.807	1.570	0.989	0.316	7	33
RFS APXV18-206517S-C	171.00	79	1.706	1.144	0.823	0.254	17	98
Bird 432-83H-01-T	150.00	25	1.312	0.138	0.347	0.055	1	31
Antel WPA-70080-2CF-	150.00	5	1.312	0.138	0.347	0.055	0	6
Antel WPA-70080-2CF-	150.00	5	1.312	0.138	0.347	0.055	0	6
Scala OGT9-840	150.00	37	1.312	0.138	0.347	0.055	2	46
Scala OGT9-840	150.00	37	1.312	0.138	0.347	0.055	2	46
TX RX Systems 422-86	150.00	40	1.312	0.138	0.347	0.055	2	50
Side Arm	150.00	300	1.312	0.138	0.347	0.055	14	372
Motorola PTP 800 ODU	110.00	20	0.706	-0.089	0.031	-0.060	-1	25
Lone Star Electronic	110.00	11	0.706	-0.089	0.031	-0.060	-1	14
Flat Side Arm	110.00	150	0.706	-0.089	0.031	-0.060	-8	186
Andrew VHLP2.6	110.00	48	0.706	-0.089	0.031	-0.060	-2	59
Bird FSA-10-67-DIN	102.00	9	0.607	-0.055	0.015	-0.040	0	11
Flat Side Arm	102.00	150	0.607	-0.055	0.015	-0.040	-5	186
Andrew P6F-0-9-N7A	91.00	134	0.483	-0.010	0.006	0.002	0	166
		27,654	156.298	59.619	49.311	14.232	1,774	34,277

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)
184	179.50	51	1.880	1.925	1.120	0.364	16	44
183	178.50	52	1.859	1.819	1.081	0.350	16	44
182	177.50	52	1.838	1.716	1.044	0.336	15	45

Site Number: 302501

Code: ANSI/TIA-222-G

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Site Name: Plymouth CT 3, CT

Engineering Number: OAA692457_C3_03

1/11/2017 3:57:44 PM

Customer: AT&T Mobility

181	176.50	52	1.817	1.618	1.007	0.323	15	45
180	175.50	53	1.797	1.523	0.972	0.310	14	46
179	174.50	54	1.776	1.433	0.937	0.297	14	46
178	173.50	54	1.756	1.346	0.903	0.285	13	47
177	172.50	54	1.736	1.263	0.871	0.272	13	47
176	171.50	55	1.716	1.183	0.839	0.260	12	47
175	170.50	60	1.696	1.106	0.808	0.248	13	52
174	169.50	61	1.676	1.033	0.778	0.237	12	52
173	168.50	61	1.656	0.963	0.749	0.225	12	53
172	167.50	61	1.637	0.896	0.721	0.214	11	53
171	166.50	62	1.617	0.832	0.694	0.203	11	53
170	165.50	62	1.598	0.772	0.667	0.192	10	54
169	164.50	63	1.579	0.713	0.641	0.182	10	54
168	163.50	63	1.559	0.658	0.616	0.172	9	54
167	162.50	63	1.540	0.605	0.592	0.162	9	55
166	161.50	64	1.521	0.555	0.569	0.152	8	55
165	160.50	64	1.503	0.508	0.546	0.142	8	55
164	159.50	65	1.484	0.462	0.524	0.133	7	56
163	158.50	65	1.465	0.420	0.503	0.124	7	56
162	157.50	66	1.447	0.379	0.482	0.115	7	56
161	156.50	66	1.429	0.340	0.462	0.106	6	57
160	155.50	66	1.411	0.304	0.443	0.098	6	57
159	154.50	67	1.392	0.270	0.424	0.090	5	57
158	153.50	67	1.374	0.237	0.406	0.082	5	58
157	152.50	68	1.357	0.207	0.388	0.074	4	58
156	151.50	68	1.339	0.178	0.372	0.066	4	58
155	150.50	68	1.321	0.151	0.355	0.059	3	59
154	149.50	74	1.304	0.126	0.339	0.052	3	64
153	148.50	75	1.286	0.102	0.324	0.045	3	64
152	147.50	75	1.269	0.080	0.309	0.038	2	65
151	146.50	75	1.252	0.059	0.295	0.031	2	65
150	145.50	76	1.235	0.040	0.282	0.025	2	65
149	144.50	76	1.218	0.022	0.268	0.019	1	66
148	143.50	77	1.201	0.006	0.256	0.013	1	66
147	142.50	77	1.185	-0.009	0.243	0.008	1	66
146	141.50	77	1.168	-0.023	0.232	0.002	0	67
145	140.50	78	1.152	-0.036	0.220	-0.003	0	67
144	139.50	78	1.135	-0.048	0.209	-0.008	-1	67
143	138.50	79	1.119	-0.059	0.199	-0.013	-1	68
142	137.50	79	1.103	-0.068	0.189	-0.018	-1	68
141	136.50	79	1.087	-0.077	0.179	-0.022	-2	68
140	135.50	80	1.071	-0.085	0.170	-0.026	-2	69
139	134.50	80	1.055	-0.092	0.161	-0.030	-2	69
138	133.50	81	1.040	-0.098	0.152	-0.034	-2	69
137	132.50	81	1.024	-0.103	0.144	-0.037	-3	70
136	131.50	82	1.009	-0.108	0.136	-0.041	-3	70
135	130.50	82	0.993	-0.111	0.128	-0.044	-3	70
134	129.50	82	0.978	-0.115	0.121	-0.047	-3	71
133	128.50	83	0.963	-0.117	0.114	-0.050	-4	71
132	127.50	83	0.948	-0.119	0.107	-0.052	-4	72
131	126.50	84	0.933	-0.121	0.101	-0.054	-4	72
130	125.50	84	0.919	-0.121	0.095	-0.056	-4	72
129	125.00	0	0.911	-0.122	0.092	-0.057	0	0
128	124.50	100	0.904	-0.122	0.089	-0.058	-5	86
127	123.50	101	0.890	-0.122	0.083	-0.060	-5	87
126	122.50	102	0.875	-0.121	0.078	-0.061	-5	87
125	121.50	102	0.861	-0.120	0.073	-0.062	-6	88
124	120.50	103	0.847	-0.119	0.068	-0.063	-6	88
123	119.50	103	0.833	-0.117	0.064	-0.064	-6	89
122	118.50	104	0.819	-0.115	0.059	-0.065	-6	89
121	117.50	104	0.805	-0.113	0.055	-0.065	-6	90
120	116.50	105	0.792	-0.110	0.051	-0.065	-6	90
119	115.50	105	0.778	-0.108	0.048	-0.065	-6	91
118	114.50	106	0.765	-0.104	0.044	-0.064	-6	91

Site Number: 302501

Code: ANSI/TIA-222-G

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Site Name: Plymouth CT 3, CT

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1/11/2017 3:57:44 PM

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117	113.50	106	0.751	-0.101	0.041	-0.064	-6	91
116	112.50	107	0.738	-0.098	0.038	-0.063	-6	92
115	111.50	107	0.725	-0.094	0.035	-0.062	-6	92
114	110.50	108	0.712	-0.091	0.032	-0.060	-6	93
113	109.50	109	0.699	-0.087	0.030	-0.059	-6	94
112	108.50	109	0.687	-0.083	0.027	-0.057	-5	94
111	107.50	110	0.674	-0.079	0.025	-0.055	-5	94
110	106.50	110	0.662	-0.075	0.023	-0.053	-5	95
109	105.50	111	0.649	-0.070	0.021	-0.050	-5	95
108	104.50	111	0.637	-0.066	0.019	-0.048	-5	96
107	103.50	112	0.625	-0.062	0.018	-0.045	-4	96
106	102.50	112	0.613	-0.058	0.016	-0.042	-4	97
105	101.50	113	0.601	-0.053	0.015	-0.038	-4	97
104	100.50	114	0.589	-0.049	0.013	-0.035	-3	98
103	99.50	114	0.578	-0.045	0.012	-0.031	-3	98
102	98.50	115	0.566	-0.040	0.011	-0.028	-3	99
101	97.50	115	0.555	-0.036	0.010	-0.024	-2	99
100	96.50	116	0.543	-0.032	0.009	-0.020	-2	100
99	95.50	116	0.532	-0.028	0.009	-0.016	-2	100
98	94.50	117	0.521	-0.024	0.008	-0.012	-1	100
97	93.50	117	0.510	-0.020	0.007	-0.008	-1	101
96	92.50	118	0.499	-0.016	0.007	-0.004	0	101
95	91.50	118	0.488	-0.012	0.007	0.000	0	102
94	90.50	119	0.478	-0.008	0.006	0.004	0	102
93	90.00	0	0.473	-0.006	0.006	0.006	0	0
92	89.50	229	0.467	-0.004	0.006	0.008	2	197
91	88.50	231	0.457	-0.001	0.006	0.012	2	198
90	87.50	232	0.447	0.003	0.006	0.016	3	199
89	86.50	233	0.436	0.006	0.006	0.019	4	200
88	85.54	214	0.427	0.009	0.006	0.022	4	184
87	85.04	12	0.422	0.011	0.006	0.024	0	10
86	84.50	141	0.417	0.013	0.006	0.026	3	121
85	83.50	142	0.407	0.016	0.006	0.029	4	122
84	82.50	142	0.397	0.019	0.007	0.032	4	122
83	81.50	143	0.387	0.022	0.007	0.035	4	123
82	80.50	143	0.378	0.025	0.007	0.038	5	123
81	79.50	144	0.369	0.028	0.008	0.040	5	124
80	78.50	145	0.359	0.030	0.008	0.043	5	125
79	77.50	145	0.350	0.033	0.009	0.045	6	125
78	76.50	146	0.341	0.035	0.009	0.047	6	126
77	75.50	147	0.333	0.037	0.010	0.049	6	126
76	74.50	147	0.324	0.040	0.010	0.050	6	127
75	73.50	148	0.315	0.042	0.011	0.052	7	127
74	72.50	149	0.307	0.044	0.012	0.053	7	128
73	71.50	149	0.298	0.046	0.012	0.054	7	128
72	70.50	150	0.290	0.048	0.013	0.056	7	129
71	69.50	151	0.282	0.049	0.014	0.056	7	130
70	68.50	151	0.274	0.051	0.015	0.057	8	130
69	67.50	152	0.266	0.052	0.015	0.058	8	131
68	66.50	152	0.258	0.054	0.016	0.059	8	131
67	65.50	153	0.250	0.055	0.017	0.059	8	132
66	64.50	154	0.243	0.057	0.018	0.060	8	132
65	63.50	154	0.235	0.058	0.019	0.060	8	133
64	62.50	155	0.228	0.059	0.020	0.060	8	133
63	61.50	156	0.221	0.060	0.021	0.061	8	134
62	60.50	156	0.214	0.061	0.021	0.061	8	135
61	59.50	157	0.207	0.062	0.022	0.061	8	135
60	58.50	158	0.200	0.063	0.023	0.061	8	136
59	57.50	158	0.193	0.064	0.024	0.061	8	136
58	56.50	159	0.186	0.064	0.025	0.061	8	137
57	55.50	160	0.180	0.065	0.026	0.061	8	137
56	54.50	160	0.173	0.066	0.027	0.061	8	138
55	53.50	161	0.167	0.066	0.028	0.061	8	138
54	52.50	161	0.161	0.067	0.029	0.061	8	139

Site Number: 302501

Code: ANSI/TIA-222-G

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Site Name: Plymouth CT 3, CT

Engineering Number: OAA692457_C3_03

1/11/2017 3:57:44 PM

Customer: AT&T Mobility

53	51.50	162	0.155	0.068	0.029	0.061	8	139
52	50.50	163	0.149	0.068	0.030	0.060	9	140
51	49.50	163	0.143	0.068	0.031	0.060	9	141
50	48.50	164	0.137	0.069	0.032	0.060	9	141
49	47.50	311	0.132	0.069	0.033	0.060	16	267
48	46.50	312	0.126	0.070	0.034	0.059	16	269
47	45.50	313	0.121	0.070	0.034	0.059	16	270
46	44.50	315	0.116	0.070	0.035	0.059	16	271
45	43.50	316	0.110	0.070	0.036	0.059	16	272
44	42.67	211	0.106	0.071	0.036	0.059	11	182
43	42.17	59	0.104	0.071	0.037	0.058	3	51
42	41.50	178	0.100	0.071	0.037	0.058	9	153
41	40.50	179	0.096	0.071	0.038	0.058	9	154
40	39.50	180	0.091	0.071	0.038	0.058	9	155
39	38.50	180	0.086	0.071	0.039	0.058	9	155
38	37.50	181	0.082	0.072	0.039	0.057	9	156
37	36.50	182	0.078	0.072	0.040	0.057	9	156
36	35.50	182	0.074	0.072	0.040	0.057	9	157
35	34.50	183	0.069	0.072	0.041	0.057	9	158
34	33.50	184	0.065	0.072	0.041	0.056	9	158
33	32.50	185	0.062	0.072	0.041	0.056	9	159
32	31.50	185	0.058	0.072	0.041	0.056	9	159
31	30.50	186	0.054	0.071	0.042	0.056	9	160
30	29.50	187	0.051	0.071	0.042	0.055	9	161
29	28.50	187	0.047	0.071	0.042	0.055	9	161
28	27.50	188	0.044	0.071	0.042	0.055	9	162
27	26.50	189	0.041	0.070	0.042	0.055	9	162
26	25.50	189	0.038	0.070	0.041	0.054	9	163
25	24.50	190	0.035	0.069	0.041	0.054	9	164
24	23.50	191	0.032	0.069	0.041	0.054	9	164
23	22.50	192	0.030	0.068	0.040	0.053	9	165
22	21.50	192	0.027	0.067	0.040	0.053	9	165
21	20.50	193	0.025	0.066	0.039	0.052	9	166
20	19.50	194	0.022	0.065	0.039	0.052	9	167
19	18.50	194	0.020	0.064	0.038	0.051	9	167
18	17.50	195	0.018	0.063	0.037	0.050	8	168
17	16.50	196	0.016	0.061	0.036	0.049	8	168
16	15.50	196	0.014	0.060	0.035	0.048	8	169
15	14.50	197	0.012	0.058	0.034	0.047	8	170
14	13.50	198	0.011	0.056	0.032	0.046	8	170
13	12.50	199	0.009	0.054	0.031	0.045	8	171
12	11.50	199	0.008	0.051	0.029	0.044	8	171
11	10.50	200	0.006	0.048	0.028	0.042	7	172
10	9.50	201	0.005	0.045	0.026	0.040	7	173
9	8.50	201	0.004	0.042	0.024	0.038	7	173
8	7.50	202	0.003	0.039	0.022	0.035	6	174
7	6.50	175	0.002	0.035	0.019	0.033	5	150
6	5.50	175	0.002	0.030	0.017	0.030	4	151
5	4.50	176	0.001	0.026	0.014	0.026	4	152
4	3.50	177	0.001	0.021	0.011	0.022	3	152
3	2.50	178	0.000	0.015	0.008	0.017	3	153
2	1.50	178	0.000	0.010	0.005	0.011	2	153
1	0.50	179	0.000	0.003	0.002	0.004	1	154
Andrew ABT-DFDM-ADB	185.00	1	1.996	2.590	1.353	0.444	0	1
Powerwave LGP21901	185.00	33	1.996	2.590	1.353	0.444	13	28
Powerwave LGP21401	185.00	85	1.996	2.590	1.353	0.444	33	73
Raycap DC6-48-60-18-	185.00	32	1.996	2.590	1.353	0.444	12	27
Ericsson RRUS A2 Mod	185.00	66	1.996	2.590	1.353	0.444	25	57
Ericsson RRUS 32 B2	185.00	159	1.996	2.590	1.353	0.444	61	137
Ericsson RRUS 11 B12	185.00	152	1.996	2.590	1.353	0.444	58	131
Powerwave 7770.00	185.00	105	1.996	2.590	1.353	0.444	40	90
Powerwave 7770.00	185.00	105	1.996	2.590	1.353	0.444	40	90
CCI HPA-65R-BUU-H6	185.00	153	1.996	2.590	1.353	0.444	59	132
Round Low Profile PI	185.00	1,500	1.996	2.590	1.353	0.444	577	1,291

Site Number: 302501

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Site Name: Plymouth CT 3, CT

Engineering Number: OAA692457_C3_03

1/11/2017 3:57:44 PM

Customer: AT&T Mobility

Motorola PTP 800 ODU	176.00	20	1.807	1.570	0.989	0.316	6	17
Radio Waves HPD2-4.7	176.00	27	1.807	1.570	0.989	0.316	7	23
RFS APXV18-206517S-C	171.00	79	1.706	1.144	0.823	0.254	17	68
Bird 432-83H-01-T	150.00	25	1.312	0.138	0.347	0.055	1	22
Antel WPA-70080-2CF-	150.00	5	1.312	0.138	0.347	0.055	0	4
Antel WPA-70080-2CF-	150.00	5	1.312	0.138	0.347	0.055	0	4
Scala OGT9-840	150.00	37	1.312	0.138	0.347	0.055	2	32
Scala OGT9-840	150.00	37	1.312	0.138	0.347	0.055	2	32
TX RX Systems 422-86	150.00	40	1.312	0.138	0.347	0.055	2	34
Side Arm	150.00	300	1.312	0.138	0.347	0.055	14	258
Motorola PTP 800 ODU	110.00	20	0.706	-0.089	0.031	-0.060	-1	17
Lone Star Electronic	110.00	11	0.706	-0.089	0.031	-0.060	-1	9
Flat Side Arm	110.00	150	0.706	-0.089	0.031	-0.060	-8	129
Andrew VHL P2.6	110.00	48	0.706	-0.089	0.031	-0.060	-2	41
Bird FSA-10-67-DIN	102.00	9	0.607	-0.055	0.015	-0.040	0	8
Flat Side Arm	102.00	150	0.607	-0.055	0.015	-0.040	-5	129
Andrew P6F-0-9-N7A	91.00	134	0.483	-0.010	0.006	0.002	0	115
		27,654	156.298	59.619	49.311	14.232	1,774	23,797

Site Number: 302501

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Site Name: Plymouth CT 3, CT

Engineering Number: OAA692457_C3_03

1/11/2017 3:57:44 PM

Customer: AT&T Mobility

Load Case (1.2 + 0.2Sds) * DL + E EMAMSeismic Equivalent Modal Analysis MethodCalculated 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	-31.09	-0.85	0.00	-70.40	0.00	70.40	3,477.38	1,738.69	6,258.10	3,090.64	0.00	0.00	0.032
1.00	-30.87	-0.85	0.00	-69.55	0.00	69.55	3,470.08	1,735.04	6,220.43	3,072.04	0.00	0.00	0.032
2.00	-30.65	-0.85	0.00	-68.70	0.00	68.70	3,462.74	1,731.37	6,182.78	3,053.44	0.00	0.00	0.031
3.00	-30.43	-0.85	0.00	-67.85	0.00	67.85	3,455.35	1,727.67	6,145.14	3,034.85	0.00	0.00	0.031
4.00	-30.21	-0.84	0.00	-67.00	0.00	67.00	3,447.91	1,723.95	6,107.52	3,016.27	0.00	-0.01	0.031
5.00	-30.00	-0.84	0.00	-66.16	0.00	66.16	3,440.42	1,720.21	6,069.92	2,997.70	0.00	-0.01	0.031
6.00	-29.78	-0.84	0.00	-65.32	0.00	65.32	3,432.88	1,716.44	6,032.34	2,979.14	0.01	-0.01	0.031
7.00	-29.53	-0.83	0.00	-64.49	0.00	64.49	3,425.29	1,712.64	5,994.78	2,960.59	0.01	-0.01	0.030
8.00	-29.28	-0.82	0.00	-63.66	0.00	63.66	3,417.65	1,708.83	5,957.24	2,942.06	0.01	-0.01	0.030
9.00	-29.03	-0.82	0.00	-62.83	0.00	62.83	3,409.97	1,704.98	5,919.72	2,923.53	0.01	-0.01	0.030
10.00	-28.78	-0.81	0.00	-62.01	0.00	62.01	3,402.23	1,701.12	5,882.23	2,905.01	0.02	-0.02	0.030
11.00	-28.54	-0.80	0.00	-61.20	0.00	61.20	3,394.45	1,697.22	5,844.77	2,886.51	0.02	-0.02	0.030
12.00	-28.29	-0.80	0.00	-60.40	0.00	60.40	3,386.61	1,693.31	5,807.33	2,868.02	0.02	-0.02	0.029
13.00	-28.04	-0.79	0.00	-59.60	0.00	59.60	3,378.73	1,689.37	5,769.91	2,849.54	0.03	-0.02	0.029
14.00	-27.80	-0.78	0.00	-58.81	0.00	58.81	3,370.80	1,685.40	5,732.53	2,831.08	0.03	-0.02	0.029
15.00	-27.56	-0.78	0.00	-58.03	0.00	58.03	3,362.82	1,681.41	5,695.17	2,812.63	0.04	-0.02	0.029
16.00	-27.31	-0.77	0.00	-57.25	0.00	57.25	3,354.79	1,677.40	5,657.85	2,794.20	0.04	-0.02	0.029
17.00	-27.07	-0.76	0.00	-56.49	0.00	56.49	3,346.72	1,673.36	5,620.56	2,775.78	0.05	-0.03	0.028
18.00	-26.83	-0.75	0.00	-55.73	0.00	55.73	3,338.59	1,669.29	5,583.30	2,757.38	0.05	-0.03	0.028
19.00	-26.59	-0.74	0.00	-54.98	0.00	54.98	3,330.41	1,665.21	5,546.07	2,738.99	0.06	-0.03	0.028
20.00	-26.35	-0.74	0.00	-54.23	0.00	54.23	3,322.19	1,661.09	5,508.88	2,720.63	0.07	-0.03	0.028
21.00	-26.11	-0.73	0.00	-53.50	0.00	53.50	3,313.92	1,656.96	5,471.72	2,702.28	0.07	-0.03	0.028
22.00	-25.88	-0.72	0.00	-52.77	0.00	52.77	3,305.59	1,652.80	5,434.60	2,683.94	0.08	-0.03	0.027
23.00	-25.64	-0.71	0.00	-52.05	0.00	52.05	3,297.22	1,648.61	5,397.51	2,665.63	0.09	-0.04	0.027
24.00	-25.40	-0.70	0.00	-51.34	0.00	51.34	3,288.80	1,644.40	5,360.47	2,647.33	0.09	-0.04	0.027
25.00	-25.17	-0.69	0.00	-50.64	0.00	50.64	3,280.33	1,640.17	5,323.46	2,629.06	0.10	-0.04	0.027
26.00	-24.94	-0.69	0.00	-49.94	0.00	49.94	3,271.81	1,635.91	5,286.50	2,610.80	0.11	-0.04	0.027
27.00	-24.70	-0.68	0.00	-49.26	0.00	49.26	3,263.25	1,631.62	5,249.58	2,592.57	0.12	-0.04	0.027
28.00	-24.47	-0.67	0.00	-48.58	0.00	48.58	3,254.63	1,627.32	5,212.70	2,574.36	0.13	-0.04	0.026
29.00	-24.24	-0.66	0.00	-47.91	0.00	47.91	3,245.97	1,622.98	5,175.86	2,556.16	0.14	-0.04	0.026
30.00	-24.01	-0.65	0.00	-47.26	0.00	47.26	3,237.25	1,618.63	5,139.07	2,537.99	0.15	-0.05	0.026
31.00	-23.78	-0.64	0.00	-46.60	0.00	46.60	3,228.49	1,614.24	5,102.33	2,519.85	0.16	-0.05	0.026
32.00	-23.55	-0.63	0.00	-45.96	0.00	45.96	3,219.68	1,609.84	5,065.63	2,501.72	0.17	-0.05	0.026
33.00	-23.32	-0.63	0.00	-45.33	0.00	45.33	3,210.82	1,605.41	5,028.98	2,483.62	0.18	-0.05	0.026
34.00	-23.09	-0.62	0.00	-44.70	0.00	44.70	3,201.91	1,600.95	4,992.38	2,465.55	0.19	-0.05	0.025
35.00	-22.87	-0.61	0.00	-44.08	0.00	44.08	3,192.95	1,596.47	4,955.83	2,447.50	0.20	-0.05	0.025
36.00	-22.64	-0.60	0.00	-43.48	0.00	43.48	3,183.94	1,591.97	4,919.33	2,429.47	0.21	-0.06	0.025
37.00	-22.42	-0.59	0.00	-42.88	0.00	42.88	3,174.88	1,587.44	4,882.88	2,411.47	0.22	-0.06	0.025
38.00	-22.20	-0.58	0.00	-42.29	0.00	42.29	3,165.78	1,582.89	4,846.48	2,393.50	0.23	-0.06	0.025
39.00	-21.97	-0.57	0.00	-41.70	0.00	41.70	3,156.62	1,578.31	4,810.14	2,375.55	0.25	-0.06	0.025
40.00	-21.75	-0.57	0.00	-41.13	0.00	41.13	3,147.42	1,573.71	4,773.86	2,357.63	0.26	-0.06	0.024
41.00	-21.53	-0.56	0.00	-40.56	0.00	40.56	3,138.17	1,569.08	4,737.63	2,339.74	0.27	-0.06	0.024
42.00	-21.46	-0.55	0.00	-40.01	0.00	40.01	3,128.87	1,564.43	4,701.46	2,321.87	0.28	-0.06	0.024
42.33	-21.19	-0.54	0.00	-39.82	0.00	39.82	3,125.75	1,562.87	4,689.38	2,315.91	0.29	-0.06	0.024
43.00	-20.80	-0.53	0.00	-39.46	0.00	39.46	3,119.52	1,559.76	4,665.35	2,304.04	0.30	-0.07	0.024
44.00	-20.41	-0.51	0.00	-38.93	0.00	38.93	3,110.12	1,555.06	4,629.29	2,286.23	0.31	-0.07	0.024
45.00	-20.02	-0.49	0.00	-38.42	0.00	38.42	3,100.67	1,550.33	4,593.30	2,268.46	0.33	-0.07	0.023
46.00	-19.64	-0.48	0.00	-37.93	0.00	37.93	3,091.17	1,545.59	4,557.37	2,250.71	0.34	-0.07	0.023
47.00	-19.25	-0.46	0.00	-37.45	0.00	37.45	3,081.63	1,540.81	4,521.50	2,233.00	0.36	-0.07	0.023
48.00	-19.05	-0.45	0.00	-36.99	0.00	36.99	2,760.51	1,380.25	4,116.88	2,033.17	0.37	-0.07	0.025
49.00	-18.85	-0.45	0.00	-36.53	0.00	36.53	2,752.72	1,376.36	4,085.80	2,017.82	0.39	-0.07	0.025
50.00	-18.64	-0.44	0.00	-36.09	0.00	36.09	2,744.89	1,372.44	4,054.76	2,002.49	0.40	-0.08	0.025
51.00	-18.44	-0.43	0.00	-35.65	0.00	35.65	2,737.01	1,368.50	4,023.76	1,987.18	0.42	-0.08	0.025
52.00	-18.24	-0.42	0.00	-35.22	0.00	35.22	2,729.07	1,364.54	3,992.80	1,971.89	0.44	-0.08	0.025
53.00	-18.04	-0.41	0.00	-34.80	0.00	34.80	2,721.09	1,360.55	3,961.88	1,956.62	0.45	-0.08	0.024
54.00	-17.85	-0.41	0.00	-34.38	0.00	34.38	2,713.06	1,356.53	3,931.00	1,941.37	0.47	-0.08	0.024

Site Number: 302501

Code: ANSI/TIA-222-G

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Site Name: Plymouth CT 3, CT

Engineering Number: OAA692457_C3_03

1/11/2017 3:57:44 PM

Customer: AT&T Mobility

55.00	-17.65	-0.40	0.00	-33.98	0.00	33.98	2,704.99	1,352.49	3,900.16	1,926.14	0.49	-0.08	0.024
56.00	-17.45	-0.39	0.00	-33.58	0.00	33.58	2,696.86	1,348.43	3,869.37	1,910.94	0.50	-0.09	0.024
57.00	-17.26	-0.38	0.00	-33.19	0.00	33.19	2,688.68	1,344.34	3,838.62	1,895.75	0.52	-0.09	0.024
58.00	-17.06	-0.37	0.00	-32.81	0.00	32.81	2,680.46	1,340.23	3,807.92	1,880.59	0.54	-0.09	0.024
59.00	-16.87	-0.36	0.00	-32.44	0.00	32.44	2,672.18	1,336.09	3,777.27	1,865.45	0.56	-0.09	0.024
60.00	-16.67	-0.36	0.00	-32.08	0.00	32.08	2,663.86	1,331.93	3,746.66	1,850.34	0.58	-0.09	0.024
61.00	-16.48	-0.35	0.00	-31.72	0.00	31.72	2,655.49	1,327.74	3,716.11	1,835.24	0.60	-0.09	0.023
62.00	-16.29	-0.34	0.00	-31.37	0.00	31.37	2,647.07	1,323.53	3,685.60	1,820.18	0.62	-0.10	0.023
63.00	-16.10	-0.33	0.00	-31.03	0.00	31.03	2,638.60	1,319.30	3,655.15	1,805.14	0.64	-0.10	0.023
64.00	-15.91	-0.32	0.00	-30.70	0.00	30.70	2,630.08	1,315.04	3,624.74	1,790.12	0.66	-0.10	0.023
65.00	-15.72	-0.32	0.00	-30.38	0.00	30.38	2,621.51	1,310.76	3,594.39	1,775.14	0.68	-0.10	0.023
66.00	-15.53	-0.31	0.00	-30.06	0.00	30.06	2,612.90	1,306.45	3,564.10	1,760.18	0.70	-0.10	0.023
67.00	-15.34	-0.30	0.00	-29.75	0.00	29.75	2,604.23	1,302.11	3,533.86	1,745.24	0.72	-0.10	0.023
68.00	-15.15	-0.29	0.00	-29.45	0.00	29.45	2,595.52	1,297.76	3,503.68	1,730.34	0.74	-0.11	0.023
69.00	-14.96	-0.29	0.00	-29.16	0.00	29.16	2,586.75	1,293.38	3,473.55	1,715.46	0.77	-0.11	0.023
70.00	-14.78	-0.28	0.00	-28.87	0.00	28.87	2,577.94	1,288.97	3,443.49	1,700.61	0.79	-0.11	0.023
71.00	-14.59	-0.27	0.00	-28.59	0.00	28.59	2,569.08	1,284.54	3,413.48	1,685.79	0.81	-0.11	0.023
72.00	-14.41	-0.27	0.00	-28.32	0.00	28.32	2,560.17	1,280.08	3,383.54	1,671.00	0.84	-0.11	0.023
73.00	-14.23	-0.26	0.00	-28.05	0.00	28.05	2,551.21	1,275.60	3,353.65	1,656.24	0.86	-0.11	0.023
74.00	-14.04	-0.25	0.00	-27.79	0.00	27.79	2,542.20	1,271.10	3,323.83	1,641.51	0.88	-0.12	0.022
75.00	-13.86	-0.25	0.00	-27.54	0.00	27.54	2,533.14	1,266.57	3,294.07	1,626.82	0.91	-0.12	0.022
76.00	-13.68	-0.24	0.00	-27.29	0.00	27.29	2,524.04	1,262.02	3,264.38	1,612.15	0.93	-0.12	0.022
77.00	-13.50	-0.24	0.00	-27.05	0.00	27.05	2,514.88	1,257.44	3,234.75	1,597.52	0.96	-0.12	0.022
78.00	-13.32	-0.23	0.00	-26.82	0.00	26.82	2,505.68	1,252.84	3,205.19	1,582.92	0.98	-0.12	0.022
79.00	-13.14	-0.23	0.00	-26.59	0.00	26.59	2,496.42	1,248.21	3,175.70	1,568.36	1.01	-0.12	0.022
80.00	-12.96	-0.22	0.00	-26.36	0.00	26.36	2,487.12	1,243.56	3,146.28	1,553.83	1.04	-0.13	0.022
81.00	-12.79	-0.22	0.00	-26.14	0.00	26.14	2,477.77	1,238.89	3,116.92	1,539.33	1.06	-0.13	0.022
82.00	-12.61	-0.21	0.00	-25.93	0.00	25.93	2,468.37	1,234.19	3,087.64	1,524.87	1.09	-0.13	0.022
83.00	-12.44	-0.21	0.00	-25.71	0.00	25.71	2,458.92	1,229.46	3,058.43	1,510.45	1.12	-0.13	0.022
84.00	-12.26	-0.21	0.00	-25.50	0.00	25.50	2,449.43	1,224.71	3,029.30	1,496.06	1.14	-0.13	0.022
85.00	-12.25	-0.21	0.00	-25.30	0.00	25.30	2,438.96	1,219.48	2,999.10	1,481.15	1.17	-0.14	0.022
85.08	-11.98	-0.20	0.00	-25.28	0.00	25.28	2,437.79	1,218.90	2,996.22	1,479.72	1.17	-0.14	0.022
86.00	-11.69	-0.20	0.00	-25.10	0.00	25.10	2,425.09	1,212.55	2,964.90	1,464.25	1.20	-0.14	0.022
87.00	-11.40	-0.19	0.00	-24.90	0.00	24.90	2,411.22	1,205.61	2,930.89	1,447.45	1.23	-0.14	0.022
88.00	-11.12	-0.19	0.00	-24.71	0.00	24.71	2,397.35	1,198.68	2,897.07	1,430.76	1.26	-0.14	0.022
89.00	-10.83	-0.19	0.00	-24.52	0.00	24.52	2,383.48	1,191.74	2,863.46	1,414.15	1.29	-0.14	0.022
90.00	-10.83	-0.19	0.00	-24.33	0.00	24.33	2,369.61	1,184.81	2,830.03	1,397.65	1.32	-0.15	0.022
90.00	-10.69	-0.19	0.00	-24.33	0.00	24.33	1,850.32	925.16	2,262.65	1,117.44	1.32	-0.15	0.028
91.00	-10.37	-0.19	0.00	-24.14	0.00	24.14	1,843.97	921.98	2,241.86	1,107.17	1.35	-0.15	0.027
92.00	-10.23	-0.19	0.00	-23.95	0.00	23.95	1,837.56	918.78	2,221.07	1,096.90	1.38	-0.15	0.027
93.00	-10.08	-0.19	0.00	-23.77	0.00	23.77	1,831.11	915.56	2,200.32	1,086.66	1.41	-0.15	0.027
94.00	-9.94	-0.19	0.00	-23.58	0.00	23.58	1,824.61	912.30	2,179.60	1,076.42	1.44	-0.15	0.027
95.00	-9.79	-0.19	0.00	-23.39	0.00	23.39	1,818.06	909.03	2,158.92	1,066.21	1.48	-0.16	0.027
96.00	-9.65	-0.19	0.00	-23.20	0.00	23.20	1,811.46	905.73	2,138.27	1,056.01	1.51	-0.16	0.027
97.00	-9.51	-0.20	0.00	-23.00	0.00	23.00	1,804.81	902.40	2,117.66	1,045.83	1.54	-0.16	0.027
98.00	-9.37	-0.20	0.00	-22.81	0.00	22.81	1,798.11	899.06	2,097.08	1,035.67	1.58	-0.16	0.027
99.00	-9.22	-0.20	0.00	-22.61	0.00	22.61	1,791.36	895.68	2,076.54	1,025.53	1.61	-0.17	0.027
100.00	-9.08	-0.21	0.00	-22.40	0.00	22.40	1,784.57	892.28	2,056.04	1,015.40	1.65	-0.17	0.027
101.00	-8.94	-0.21	0.00	-22.20	0.00	22.20	1,777.72	888.86	2,035.59	1,005.30	1.68	-0.17	0.027
102.00	-8.61	-0.22	0.00	-21.99	0.00	21.99	1,770.83	885.41	2,015.17	995.22	1.72	-0.17	0.027
103.00	-8.47	-0.22	0.00	-21.77	0.00	21.77	1,763.89	881.94	1,994.79	985.15	1.76	-0.18	0.027
104.00	-8.33	-0.23	0.00	-21.55	0.00	21.55	1,756.90	878.45	1,974.46	975.11	1.79	-0.18	0.027
105.00	-8.19	-0.23	0.00	-21.32	0.00	21.32	1,749.86	874.93	1,954.17	965.09	1.83	-0.18	0.027
106.00	-8.06	-0.24	0.00	-21.09	0.00	21.09	1,742.77	871.38	1,933.93	955.09	1.87	-0.18	0.027
107.00	-7.92	-0.24	0.00	-20.85	0.00	20.85	1,735.63	867.81	1,913.73	945.12	1.91	-0.19	0.027
108.00	-7.78	-0.25	0.00	-20.61	0.00	20.61	1,728.44	864.22	1,893.58	935.17	1.95	-0.19	0.027
109.00	-7.65	-0.25	0.00	-20.36	0.00	20.36	1,721.20	860.60	1,873.48	925.24	1.99	-0.19	0.026
110.00	-7.23	-0.27	0.00	-20.11	0.00	20.11	1,713.92	856.96	1,853.43	915.34	2.03	-0.19	0.026
111.00	-7.10	-0.27	0.00	-19.84	0.00	19.84	1,706.58	853.29	1,833.43	905.46	2.07	-0.20	0.026
112.00	-6.97	-0.28	0.00	-19.57	0.00	19.57	1,699.20	849.60	1,813.48	895.61	2.11	-0.20	0.026
113.00	-6.83	-0.29	0.00	-19.29	0.00	19.29	1,691.77	845.88	1,793.58	885.78	2.15	-0.20	0.026
114.00	-6.70	-0.29	0.00	-19.00	0.00	19.00	1,684.29	842.14	1,773.74	875.98	2.20	-0.21	0.026
115.00	-6.57	-0.30	0.00	-18.71	0.00	18.71	1,676.76	838.38	1,753.95	866.21	2.24	-0.21	0.026
116.00	-6.44	-0.30	0.00	-18.41	0.00	18.41	1,669.18	834.59	1,734.22	856.46	2.28	-0.21	0.025

Site Number: 302501

Code: ANSI/TIA-222-G

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Site Name: Plymouth CT 3, CT

Engineering Number: OAA692457_C3_03

1/11/2017 3:57:44 PM

Customer: AT&T Mobility

117.00	-6.31	-0.31	0.00	-18.11	0.00	18.11	1,661.55	830.78	1,714.54	846.75	2.33	-0.21	0.025
118.00	-6.18	-0.31	0.00	-17.80	0.00	17.80	1,653.87	826.94	1,694.92	837.06	2.37	-0.22	0.025
119.00	-6.06	-0.32	0.00	-17.48	0.00	17.48	1,646.15	823.07	1,675.36	827.40	2.42	-0.22	0.025
120.00	-5.93	-0.33	0.00	-17.16	0.00	17.16	1,638.37	819.19	1,655.86	817.77	2.46	-0.22	0.025
121.00	-5.80	-0.33	0.00	-16.84	0.00	16.84	1,628.70	814.35	1,634.57	807.25	2.51	-0.23	0.024
122.00	-5.68	-0.34	0.00	-16.51	0.00	16.51	1,617.35	808.68	1,611.74	795.98	2.56	-0.23	0.024
123.00	-5.55	-0.34	0.00	-16.17	0.00	16.17	1,606.00	803.00	1,589.07	784.78	2.61	-0.23	0.024
124.00	-5.43	-0.35	0.00	-15.83	0.00	15.83	1,594.66	797.33	1,566.57	773.67	2.66	-0.23	0.024
124.99	-5.43	-0.35	0.00	-15.48	0.00	15.48	1,583.38	791.69	1,544.35	762.70	2.70	-0.24	0.024
124.99	-5.43	-0.35	0.00	-15.48	0.00	15.48	1,139.37	569.69	1,117.16	551.72	2.70	-0.24	0.033
125.00	-5.32	-0.35	0.00	-15.48	0.00	15.48	1,139.34	569.67	1,117.08	551.68	2.70	-0.24	0.033
126.00	-5.22	-0.35	0.00	-15.13	0.00	15.13	1,134.60	567.30	1,104.40	545.42	2.75	-0.24	0.032
127.00	-5.12	-0.36	0.00	-14.78	0.00	14.78	1,129.80	564.90	1,091.75	539.17	2.81	-0.24	0.032
128.00	-5.01	-0.36	0.00	-14.42	0.00	14.42	1,124.96	562.48	1,079.11	532.93	2.86	-0.25	0.032
129.00	-4.91	-0.36	0.00	-14.06	0.00	14.06	1,120.07	560.03	1,066.50	526.70	2.91	-0.25	0.031
130.00	-4.81	-0.37	0.00	-13.69	0.00	13.69	1,115.13	557.56	1,053.90	520.48	2.96	-0.25	0.031
131.00	-4.71	-0.37	0.00	-13.33	0.00	13.33	1,110.14	555.07	1,041.34	514.28	3.02	-0.26	0.030
132.00	-4.61	-0.37	0.00	-12.96	0.00	12.96	1,105.10	552.55	1,028.79	508.08	3.07	-0.26	0.030
133.00	-4.51	-0.38	0.00	-12.58	0.00	12.58	1,100.01	550.01	1,016.28	501.90	3.13	-0.27	0.029
134.00	-4.41	-0.38	0.00	-12.21	0.00	12.21	1,094.88	547.44	1,003.79	495.73	3.18	-0.27	0.029
135.00	-4.31	-0.38	0.00	-11.83	0.00	11.83	1,089.69	544.84	991.33	489.58	3.24	-0.27	0.028
136.00	-4.21	-0.38	0.00	-11.45	0.00	11.45	1,084.45	542.23	978.89	483.44	3.30	-0.28	0.028
137.00	-4.11	-0.38	0.00	-11.07	0.00	11.07	1,079.17	539.59	966.49	477.31	3.35	-0.28	0.027
138.00	-4.02	-0.38	0.00	-10.69	0.00	10.69	1,073.84	536.92	954.12	471.20	3.41	-0.28	0.026
139.00	-3.92	-0.38	0.00	-10.31	0.00	10.31	1,068.46	534.23	941.78	465.11	3.47	-0.29	0.026
140.00	-3.82	-0.38	0.00	-9.93	0.00	9.93	1,063.03	531.51	929.48	459.03	3.53	-0.29	0.025
141.00	-3.73	-0.38	0.00	-9.55	0.00	9.55	1,057.55	528.77	917.21	452.97	3.59	-0.29	0.025
142.00	-3.63	-0.38	0.00	-9.16	0.00	9.16	1,052.02	526.01	904.97	446.93	3.65	-0.30	0.024
143.00	-3.54	-0.38	0.00	-8.78	0.00	8.78	1,046.44	523.22	892.77	440.91	3.72	-0.30	0.023
144.00	-3.44	-0.38	0.00	-8.40	0.00	8.40	1,040.82	520.41	880.61	434.90	3.78	-0.30	0.023
145.00	-3.35	-0.38	0.00	-8.03	0.00	8.03	1,035.14	517.57	868.49	428.91	3.84	-0.30	0.022
146.00	-3.25	-0.37	0.00	-7.65	0.00	7.65	1,029.42	514.71	856.41	422.95	3.91	-0.31	0.021
147.00	-3.16	-0.37	0.00	-7.28	0.00	7.28	1,023.64	511.82	844.36	417.00	3.97	-0.31	0.021
148.00	-3.07	-0.37	0.00	-6.91	0.00	6.91	1,017.82	508.91	832.36	411.07	4.04	-0.31	0.020
149.00	-2.98	-0.36	0.00	-6.54	0.00	6.54	1,011.95	505.97	820.40	405.17	4.10	-0.32	0.019
150.00	-2.34	-0.34	0.00	-6.17	0.00	6.17	1,006.03	503.01	808.49	399.28	4.17	-0.32	0.018
151.00	-2.25	-0.33	0.00	-5.84	0.00	5.84	1,000.06	500.03	796.62	393.42	4.24	-0.32	0.017
152.00	-2.17	-0.33	0.00	-5.51	0.00	5.51	994.04	497.02	784.80	387.58	4.30	-0.32	0.016
153.00	-2.08	-0.32	0.00	-5.18	0.00	5.18	987.57	493.78	772.70	381.61	4.37	-0.33	0.016
154.00	-2.00	-0.32	0.00	-4.86	0.00	4.86	978.74	489.37	758.87	374.78	4.44	-0.33	0.015
155.00	-1.92	-0.31	0.00	-4.54	0.00	4.54	969.92	484.96	745.17	368.01	4.51	-0.33	0.014
156.00	-1.84	-0.30	0.00	-4.23	0.00	4.23	961.09	480.55	731.59	361.31	4.58	-0.33	0.014
157.00	-1.76	-0.30	0.00	-3.93	0.00	3.93	952.26	476.13	718.14	354.66	4.65	-0.33	0.013
158.00	-1.68	-0.29	0.00	-3.63	0.00	3.63	943.44	471.72	704.81	348.08	4.72	-0.34	0.012
159.00	-1.60	-0.28	0.00	-3.34	0.00	3.34	934.61	467.31	691.61	341.56	4.79	-0.34	0.011
160.00	-1.52	-0.27	0.00	-3.06	0.00	3.06	925.79	462.89	678.53	335.10	4.86	-0.34	0.011
161.00	-1.44	-0.26	0.00	-2.79	0.00	2.79	916.96	458.48	665.57	328.70	4.93	-0.34	0.010
162.00	-1.36	-0.26	0.00	-2.52	0.00	2.52	908.13	454.07	652.74	322.37	5.00	-0.34	0.009
163.00	-1.28	-0.25	0.00	-2.27	0.00	2.27	899.31	449.65	640.04	316.09	5.07	-0.34	0.009
164.00	-1.20	-0.24	0.00	-2.02	0.00	2.02	890.48	445.24	627.46	309.88	5.15	-0.35	0.008
165.00	-1.13	-0.22	0.00	-1.79	0.00	1.79	881.65	440.83	615.01	303.73	5.22	-0.35	0.007
166.00	-1.05	-0.21	0.00	-1.56	0.00	1.56	872.83	436.41	602.68	297.64	5.29	-0.35	0.006
167.00	-0.97	-0.20	0.00	-1.35	0.00	1.35	864.00	432.00	590.47	291.61	5.36	-0.35	0.006
168.00	-0.90	-0.19	0.00	-1.15	0.00	1.15	855.17	427.59	578.39	285.65	5.44	-0.35	0.005
169.00	-0.82	-0.18	0.00	-0.96	0.00	0.96	846.35	423.17	566.44	279.74	5.51	-0.35	0.004
170.00	-0.75	-0.16	0.00	-0.78	0.00	0.78	837.52	418.76	554.61	273.90	5.59	-0.35	0.004
171.00	-0.58	-0.13	0.00	-0.62	0.00	0.62	828.70	414.35	542.90	268.12	5.66	-0.35	0.003
172.00	-0.51	-0.12	0.00	-0.49	0.00	0.49	819.87	409.93	531.32	262.40	5.73	-0.35	0.002
173.00	-0.45	-0.11	0.00	-0.37	0.00	0.37	811.04	405.52	519.86	256.74	5.81	-0.35	0.002
174.00	-0.38	-0.09	0.00	-0.26	0.00	0.26	802.22	401.11	508.53	251.15	5.88	-0.35	0.002
175.00	-0.31	-0.08	0.00	-0.17	0.00	0.17	793.39	396.70	497.33	245.61	5.95	-0.35	0.001
176.00	-0.19	-0.05	0.00	-0.10	0.00	0.10	784.56	392.28	486.25	240.14	6.03	-0.35	0.001
177.00	-0.13	-0.03	0.00	-0.05	0.00	0.05	775.74	387.87	475.29	234.73	6.10	-0.35	0.000
178.00	-0.06	-0.02	0.00	-0.02	0.00	0.02	766.91	383.46	464.46	229.38	6.18	-0.35	0.000

Site Number:	302501	Code:	ANSI/TIA-222-G	© 2007 - 2017 by ATC IP LLC. All rights reserved.
Site Name:	Plymouth CT 3, CT	Engineering Number:	OAA692457_C3_03	1/11/2017 3:57:45 PM
Customer:	AT&T Mobility			

179.00	0.00	0.00	0.00	0.00	0.00	0.00	758.08	379.04	453.75	224.09	6.25	-0.35	0.000
180.00	0.00	0.00	0.00	0.00	0.00	0.00	749.26	374.63	443.17	218.87	6.32	-0.35	0.000

Site Number: 302501

Code: ANSI/TIA-222-G

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Site Name: Plymouth CT 3, CT

Engineering Number: OAA692457_C3_03

1/11/2017 3:57:45 PM

Customer: AT&T Mobility

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	-21.59	-0.85	0.00	-69.33	0.00	69.33	3,477.38	1,738.69	6,258.10	3,090.64	0.00	0.00	0.029
1.00	-21.43	-0.85	0.00	-68.48	0.00	68.48	3,470.08	1,735.04	6,220.43	3,072.04	0.00	0.00	0.028
2.00	-21.28	-0.85	0.00	-67.63	0.00	67.63	3,462.74	1,731.37	6,182.78	3,053.44	0.00	0.00	0.028
3.00	-21.13	-0.85	0.00	-66.78	0.00	66.78	3,455.35	1,727.67	6,145.14	3,034.85	0.00	0.00	0.028
4.00	-20.98	-0.84	0.00	-65.93	0.00	65.93	3,447.91	1,723.95	6,107.52	3,016.27	0.00	-0.01	0.028
5.00	-20.83	-0.84	0.00	-65.09	0.00	65.09	3,440.42	1,720.21	6,069.92	2,997.70	0.00	-0.01	0.028
6.00	-20.68	-0.83	0.00	-64.25	0.00	64.25	3,432.88	1,716.44	6,032.34	2,979.14	0.01	-0.01	0.028
7.00	-20.50	-0.83	0.00	-63.42	0.00	63.42	3,425.29	1,712.64	5,994.78	2,960.59	0.01	-0.01	0.027
8.00	-20.33	-0.82	0.00	-62.59	0.00	62.59	3,417.65	1,708.83	5,957.24	2,942.06	0.01	-0.01	0.027
9.00	-20.16	-0.82	0.00	-61.77	0.00	61.77	3,409.97	1,704.98	5,919.72	2,923.53	0.01	-0.01	0.027
10.00	-19.98	-0.81	0.00	-60.95	0.00	60.95	3,402.23	1,701.12	5,882.23	2,905.01	0.02	-0.02	0.027
11.00	-19.81	-0.80	0.00	-60.14	0.00	60.14	3,394.45	1,697.22	5,844.77	2,886.51	0.02	-0.02	0.027
12.00	-19.64	-0.79	0.00	-59.34	0.00	59.34	3,386.61	1,693.31	5,807.33	2,868.02	0.02	-0.02	0.026
13.00	-19.47	-0.79	0.00	-58.55	0.00	58.55	3,378.73	1,689.37	5,769.91	2,849.54	0.03	-0.02	0.026
14.00	-19.30	-0.78	0.00	-57.76	0.00	57.76	3,370.80	1,685.40	5,732.53	2,831.08	0.03	-0.02	0.026
15.00	-19.13	-0.77	0.00	-56.98	0.00	56.98	3,362.82	1,681.41	5,695.17	2,812.63	0.04	-0.02	0.026
16.00	-18.96	-0.76	0.00	-56.21	0.00	56.21	3,354.79	1,677.40	5,657.85	2,794.20	0.04	-0.02	0.026
17.00	-18.80	-0.76	0.00	-55.44	0.00	55.44	3,346.72	1,673.36	5,620.56	2,775.78	0.05	-0.03	0.026
18.00	-18.63	-0.75	0.00	-54.69	0.00	54.69	3,338.59	1,669.29	5,583.30	2,757.38	0.05	-0.03	0.025
19.00	-18.46	-0.74	0.00	-53.94	0.00	53.94	3,330.41	1,665.21	5,546.07	2,738.99	0.06	-0.03	0.025
20.00	-18.30	-0.73	0.00	-53.20	0.00	53.20	3,322.19	1,661.09	5,508.88	2,720.63	0.06	-0.03	0.025
21.00	-18.13	-0.72	0.00	-52.47	0.00	52.47	3,313.92	1,656.96	5,471.72	2,702.28	0.07	-0.03	0.025
22.00	-17.97	-0.71	0.00	-51.75	0.00	51.75	3,305.59	1,652.80	5,434.60	2,683.94	0.08	-0.03	0.025
23.00	-17.80	-0.71	0.00	-51.03	0.00	51.03	3,297.22	1,648.61	5,397.51	2,665.63	0.08	-0.03	0.025
24.00	-17.64	-0.70	0.00	-50.33	0.00	50.33	3,288.80	1,644.40	5,360.47	2,647.33	0.09	-0.04	0.024
25.00	-17.47	-0.69	0.00	-49.63	0.00	49.63	3,280.33	1,640.17	5,323.46	2,629.06	0.10	-0.04	0.024
26.00	-17.31	-0.68	0.00	-48.94	0.00	48.94	3,271.81	1,635.91	5,286.50	2,610.80	0.11	-0.04	0.024
27.00	-17.15	-0.67	0.00	-48.26	0.00	48.26	3,263.25	1,631.62	5,249.58	2,592.57	0.12	-0.04	0.024
28.00	-16.99	-0.66	0.00	-47.59	0.00	47.59	3,254.63	1,627.32	5,212.70	2,574.36	0.13	-0.04	0.024
29.00	-16.83	-0.65	0.00	-46.93	0.00	46.93	3,245.97	1,622.98	5,175.86	2,556.16	0.13	-0.04	0.024
30.00	-16.67	-0.65	0.00	-46.28	0.00	46.28	3,237.25	1,618.63	5,139.07	2,537.99	0.14	-0.05	0.023
31.00	-16.51	-0.64	0.00	-45.63	0.00	45.63	3,228.49	1,614.24	5,102.33	2,519.85	0.15	-0.05	0.023
32.00	-16.35	-0.63	0.00	-44.99	0.00	44.99	3,219.68	1,609.84	5,065.63	2,501.72	0.16	-0.05	0.023
33.00	-16.19	-0.62	0.00	-44.37	0.00	44.37	3,210.82	1,605.41	5,028.98	2,483.62	0.17	-0.05	0.023
34.00	-16.03	-0.61	0.00	-43.75	0.00	43.75	3,201.91	1,600.95	4,992.38	2,465.55	0.18	-0.05	0.023
35.00	-15.88	-0.60	0.00	-43.14	0.00	43.14	3,192.95	1,596.47	4,955.83	2,447.50	0.19	-0.05	0.023
36.00	-15.72	-0.59	0.00	-42.54	0.00	42.54	3,183.94	1,591.97	4,919.33	2,429.47	0.21	-0.05	0.022
37.00	-15.56	-0.58	0.00	-41.94	0.00	41.94	3,174.88	1,587.44	4,882.88	2,411.47	0.22	-0.06	0.022
38.00	-15.41	-0.58	0.00	-41.36	0.00	41.36	3,165.78	1,582.89	4,846.48	2,393.50	0.23	-0.06	0.022
39.00	-15.25	-0.57	0.00	-40.78	0.00	40.78	3,156.62	1,578.31	4,810.14	2,375.55	0.24	-0.06	0.022
40.00	-15.10	-0.56	0.00	-40.22	0.00	40.22	3,147.42	1,573.71	4,773.86	2,357.63	0.25	-0.06	0.022
41.00	-14.95	-0.55	0.00	-39.66	0.00	39.66	3,138.17	1,569.08	4,737.63	2,339.74	0.27	-0.06	0.022
42.00	-14.90	-0.55	0.00	-39.11	0.00	39.11	3,128.87	1,564.43	4,701.46	2,321.87	0.28	-0.06	0.022
42.33	-14.71	-0.54	0.00	-38.93	0.00	38.93	3,125.75	1,562.87	4,689.38	2,315.91	0.28	-0.06	0.022
43.00	-14.44	-0.52	0.00	-38.57	0.00	38.57	3,119.52	1,559.76	4,665.35	2,304.04	0.29	-0.06	0.021
44.00	-14.17	-0.50	0.00	-38.05	0.00	38.05	3,110.12	1,555.06	4,629.29	2,286.23	0.31	-0.07	0.021
45.00	-13.90	-0.49	0.00	-37.55	0.00	37.55	3,100.67	1,550.33	4,593.30	2,268.46	0.32	-0.07	0.021
46.00	-13.63	-0.47	0.00	-37.06	0.00	37.06	3,091.17	1,545.59	4,557.37	2,250.71	0.33	-0.07	0.021
47.00	-13.37	-0.46	0.00	-36.59	0.00	36.59	3,081.63	1,540.81	4,521.50	2,233.00	0.35	-0.07	0.021
48.00	-13.23	-0.45	0.00	-36.13	0.00	36.13	2,760.51	1,380.25	4,116.88	2,033.17	0.36	-0.07	0.023
49.00	-13.08	-0.44	0.00	-35.69	0.00	35.69	2,752.72	1,376.36	4,085.80	2,017.82	0.38	-0.07	0.022
50.00	-12.94	-0.43	0.00	-35.25	0.00	35.25	2,744.89	1,372.44	4,054.76	2,002.49	0.40	-0.07	0.022
51.00	-12.81	-0.42	0.00	-34.82	0.00	34.82	2,737.01	1,368.50	4,023.76	1,987.18	0.41	-0.08	0.022
52.00	-12.67	-0.41	0.00	-34.40	0.00	34.40	2,729.07	1,364.54	3,992.80	1,971.89	0.43	-0.08	0.022
53.00	-12.53	-0.41	0.00	-33.98	0.00	33.98	2,721.09	1,360.55	3,961.88	1,956.62	0.44	-0.08	0.022
54.00	-12.39	-0.40	0.00	-33.58	0.00	33.58	2,713.06	1,356.53	3,931.00	1,941.37	0.46	-0.08	0.022

Site Number: 302501

Code: ANSI/TIA-222-G

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Site Name: Plymouth CT 3, CT

Engineering Number: OAA692457_C3_03

1/11/2017 3:57:45 PM

Customer: AT&T Mobility

55.00	-12.25	-0.39	0.00	-33.18	0.00	33.18	2,704.99	1,352.49	3,900.16	1,926.14	0.48	-0.08	0.022
56.00	-12.12	-0.38	0.00	-32.79	0.00	32.79	2,696.86	1,348.43	3,869.37	1,910.94	0.50	-0.08	0.022
57.00	-11.98	-0.37	0.00	-32.41	0.00	32.41	2,688.68	1,344.34	3,838.62	1,895.75	0.51	-0.09	0.022
58.00	-11.84	-0.36	0.00	-32.04	0.00	32.04	2,680.46	1,340.23	3,807.92	1,880.59	0.53	-0.09	0.021
59.00	-11.71	-0.36	0.00	-31.67	0.00	31.67	2,672.18	1,336.09	3,777.27	1,865.45	0.55	-0.09	0.021
60.00	-11.57	-0.35	0.00	-31.32	0.00	31.32	2,663.86	1,331.93	3,746.66	1,850.34	0.57	-0.09	0.021
61.00	-11.44	-0.34	0.00	-30.97	0.00	30.97	2,655.49	1,327.74	3,716.11	1,835.24	0.59	-0.09	0.021
62.00	-11.31	-0.33	0.00	-30.63	0.00	30.63	2,647.07	1,323.53	3,685.60	1,820.18	0.61	-0.09	0.021
63.00	-11.17	-0.32	0.00	-30.30	0.00	30.30	2,638.60	1,319.30	3,655.15	1,805.14	0.63	-0.10	0.021
64.00	-11.04	-0.32	0.00	-29.98	0.00	29.98	2,630.08	1,315.04	3,624.74	1,790.12	0.65	-0.10	0.021
65.00	-10.91	-0.31	0.00	-29.66	0.00	29.66	2,621.51	1,310.76	3,594.39	1,775.14	0.67	-0.10	0.021
66.00	-10.78	-0.30	0.00	-29.35	0.00	29.35	2,612.90	1,306.45	3,564.10	1,760.18	0.69	-0.10	0.021
67.00	-10.65	-0.29	0.00	-29.05	0.00	29.05	2,604.23	1,302.11	3,533.86	1,745.24	0.71	-0.10	0.021
68.00	-10.52	-0.29	0.00	-28.76	0.00	28.76	2,595.52	1,297.76	3,503.68	1,730.34	0.73	-0.10	0.021
69.00	-10.39	-0.28	0.00	-28.48	0.00	28.48	2,586.75	1,293.38	3,473.55	1,715.46	0.75	-0.10	0.021
70.00	-10.26	-0.27	0.00	-28.20	0.00	28.20	2,577.94	1,288.97	3,443.49	1,700.61	0.77	-0.11	0.021
71.00	-10.13	-0.26	0.00	-27.93	0.00	27.93	2,569.08	1,284.54	3,413.48	1,685.79	0.80	-0.11	0.021
72.00	-10.00	-0.26	0.00	-27.66	0.00	27.66	2,560.17	1,280.08	3,383.54	1,671.00	0.82	-0.11	0.020
73.00	-9.88	-0.25	0.00	-27.41	0.00	27.41	2,551.21	1,275.60	3,353.65	1,656.24	0.84	-0.11	0.020
74.00	-9.75	-0.24	0.00	-27.16	0.00	27.16	2,542.20	1,271.10	3,323.83	1,641.51	0.87	-0.11	0.020
75.00	-9.62	-0.24	0.00	-26.91	0.00	26.91	2,533.14	1,266.57	3,294.07	1,626.82	0.89	-0.11	0.020
76.00	-9.50	-0.23	0.00	-26.67	0.00	26.67	2,524.04	1,262.02	3,264.38	1,612.15	0.91	-0.12	0.020
77.00	-9.37	-0.23	0.00	-26.44	0.00	26.44	2,514.88	1,257.44	3,234.75	1,597.52	0.94	-0.12	0.020
78.00	-9.25	-0.22	0.00	-26.22	0.00	26.22	2,505.68	1,252.84	3,205.19	1,582.92	0.96	-0.12	0.020
79.00	-9.12	-0.22	0.00	-26.00	0.00	26.00	2,496.42	1,248.21	3,175.70	1,568.36	0.99	-0.12	0.020
80.00	-9.00	-0.21	0.00	-25.78	0.00	25.78	2,487.12	1,243.56	3,146.28	1,553.83	1.01	-0.12	0.020
81.00	-8.88	-0.21	0.00	-25.57	0.00	25.57	2,477.77	1,238.89	3,116.92	1,539.33	1.04	-0.13	0.020
82.00	-8.76	-0.20	0.00	-25.36	0.00	25.36	2,468.37	1,234.19	3,087.64	1,524.87	1.07	-0.13	0.020
83.00	-8.63	-0.20	0.00	-25.16	0.00	25.16	2,458.92	1,229.46	3,058.43	1,510.45	1.09	-0.13	0.020
84.00	-8.51	-0.20	0.00	-24.96	0.00	24.96	2,449.43	1,224.71	3,029.30	1,496.06	1.12	-0.13	0.020
85.00	-8.50	-0.20	0.00	-24.76	0.00	24.76	2,438.96	1,219.48	2,999.10	1,481.15	1.15	-0.13	0.020
85.08	-8.32	-0.19	0.00	-24.75	0.00	24.75	2,437.79	1,218.90	2,996.22	1,479.72	1.15	-0.13	0.020
86.00	-8.12	-0.19	0.00	-24.57	0.00	24.57	2,425.09	1,212.55	2,964.90	1,464.25	1.18	-0.13	0.020
87.00	-7.92	-0.18	0.00	-24.38	0.00	24.38	2,411.22	1,205.61	2,930.89	1,447.45	1.21	-0.14	0.020
88.00	-7.72	-0.18	0.00	-24.20	0.00	24.20	2,397.35	1,198.68	2,897.07	1,430.76	1.23	-0.14	0.020
89.00	-7.52	-0.18	0.00	-24.02	0.00	24.02	2,383.48	1,191.74	2,863.46	1,414.15	1.26	-0.14	0.020
90.00	-7.52	-0.18	0.00	-23.84	0.00	23.84	2,369.61	1,184.81	2,830.03	1,397.65	1.29	-0.14	0.020
90.00	-7.42	-0.18	0.00	-23.84	0.00	23.84	1,850.32	925.16	2,262.65	1,117.44	1.29	-0.14	0.025
91.00	-7.20	-0.18	0.00	-23.66	0.00	23.66	1,843.97	921.98	2,241.86	1,107.17	1.32	-0.14	0.025
92.00	-7.10	-0.18	0.00	-23.48	0.00	23.48	1,837.56	918.78	2,221.07	1,096.90	1.35	-0.15	0.025
93.00	-7.00	-0.18	0.00	-23.30	0.00	23.30	1,831.11	915.56	2,200.32	1,086.66	1.38	-0.15	0.025
94.00	-6.90	-0.18	0.00	-23.12	0.00	23.12	1,824.61	912.30	2,179.60	1,076.42	1.42	-0.15	0.025
95.00	-6.80	-0.18	0.00	-22.94	0.00	22.94	1,818.06	909.03	2,158.92	1,066.21	1.45	-0.15	0.025
96.00	-6.70	-0.19	0.00	-22.75	0.00	22.75	1,811.46	905.73	2,138.27	1,056.01	1.48	-0.16	0.025
97.00	-6.60	-0.19	0.00	-22.57	0.00	22.57	1,804.81	902.40	2,117.66	1,045.83	1.51	-0.16	0.025
98.00	-6.50	-0.19	0.00	-22.38	0.00	22.38	1,798.11	899.06	2,097.08	1,035.67	1.55	-0.16	0.025
99.00	-6.40	-0.19	0.00	-22.19	0.00	22.19	1,791.36	895.68	2,076.54	1,025.53	1.58	-0.16	0.025
100.00	-6.31	-0.20	0.00	-21.99	0.00	21.99	1,784.57	892.28	2,056.04	1,015.40	1.61	-0.17	0.025
101.00	-6.21	-0.20	0.00	-21.80	0.00	21.80	1,777.72	888.86	2,035.59	1,005.30	1.65	-0.17	0.025
102.00	-5.97	-0.21	0.00	-21.60	0.00	21.60	1,770.83	885.41	2,015.17	995.22	1.68	-0.17	0.025
103.00	-5.88	-0.21	0.00	-21.39	0.00	21.39	1,763.89	881.94	1,994.79	985.15	1.72	-0.17	0.025
104.00	-5.78	-0.22	0.00	-21.17	0.00	21.17	1,756.90	878.45	1,974.46	975.11	1.76	-0.18	0.025
105.00	-5.69	-0.22	0.00	-20.95	0.00	20.95	1,749.86	874.93	1,954.17	965.09	1.79	-0.18	0.025
106.00	-5.59	-0.23	0.00	-20.73	0.00	20.73	1,742.77	871.38	1,933.93	955.09	1.83	-0.18	0.025
107.00	-5.50	-0.23	0.00	-20.50	0.00	20.50	1,735.63	867.81	1,913.73	945.12	1.87	-0.18	0.025
108.00	-5.40	-0.24	0.00	-20.27	0.00	20.27	1,728.44	864.22	1,893.58	935.17	1.91	-0.19	0.025
109.00	-5.31	-0.24	0.00	-20.03	0.00	20.03	1,721.20	860.60	1,873.48	925.24	1.95	-0.19	0.025
110.00	-5.02	-0.26	0.00	-19.78	0.00	19.78	1,713.92	856.96	1,853.43	915.34	1.99	-0.19	0.025
111.00	-4.93	-0.27	0.00	-19.52	0.00	19.52	1,706.58	853.29	1,833.43	905.46	2.03	-0.19	0.024
112.00	-4.84	-0.27	0.00	-19.26	0.00	19.26	1,699.20	849.60	1,813.48	895.61	2.07	-0.20	0.024
113.00	-4.74	-0.28	0.00	-18.98	0.00	18.98	1,691.77	845.88	1,793.58	885.78	2.11	-0.20	0.024
114.00	-4.65	-0.28	0.00	-18.70	0.00	18.70	1,684.29	842.14	1,773.74	875.98	2.15	-0.20	0.024
115.00	-4.56	-0.29	0.00	-18.42	0.00	18.42	1,676.76	838.38	1,753.95	866.21	2.19	-0.20	0.024
116.00	-4.47	-0.30	0.00	-18.13	0.00	18.13	1,669.18	834.59	1,734.22	856.46	2.24	-0.21	0.024

Site Number: 302501

Code: ANSI/TIA-222-G

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Site Name: Plymouth CT 3, CT

Engineering Number: OAA692457_C3_03

1/11/2017 3:57:45 PM

Customer: AT&T Mobility

117.00	-4.38	-0.30	0.00	-17.83	0.00	17.83	1,661.55	830.78	1,714.54	846.75	2.28	-0.21	0.024
118.00	-4.29	-0.31	0.00	-17.53	0.00	17.53	1,653.87	826.94	1,694.92	837.06	2.32	-0.21	0.024
119.00	-4.20	-0.31	0.00	-17.22	0.00	17.22	1,646.15	823.07	1,675.36	827.40	2.37	-0.22	0.023
120.00	-4.12	-0.32	0.00	-16.91	0.00	16.91	1,638.37	819.19	1,655.86	817.77	2.41	-0.22	0.023
121.00	-4.03	-0.32	0.00	-16.59	0.00	16.59	1,628.70	814.35	1,634.57	807.25	2.46	-0.22	0.023
122.00	-3.94	-0.33	0.00	-16.27	0.00	16.27	1,617.35	808.68	1,611.74	795.98	2.51	-0.22	0.023
123.00	-3.85	-0.33	0.00	-15.94	0.00	15.94	1,606.00	803.00	1,589.07	784.78	2.55	-0.23	0.023
124.00	-3.77	-0.34	0.00	-15.60	0.00	15.60	1,594.66	797.33	1,566.57	773.67	2.60	-0.23	0.023
124.99	-3.77	-0.34	0.00	-15.27	0.00	15.27	1,583.38	791.69	1,544.35	762.70	2.65	-0.23	0.022
124.99	-3.77	-0.34	0.00	-15.27	0.00	15.27	1,139.37	569.69	1,117.16	551.72	2.65	-0.23	0.031
125.00	-3.70	-0.34	0.00	-15.26	0.00	15.26	1,139.34	569.67	1,117.08	551.68	2.65	-0.23	0.031
126.00	-3.62	-0.35	0.00	-14.92	0.00	14.92	1,134.60	567.30	1,104.40	545.42	2.70	-0.24	0.031
127.00	-3.55	-0.35	0.00	-14.57	0.00	14.57	1,129.80	564.90	1,091.75	539.17	2.75	-0.24	0.030
128.00	-3.48	-0.35	0.00	-14.22	0.00	14.22	1,124.96	562.48	1,079.11	532.93	2.80	-0.24	0.030
129.00	-3.41	-0.36	0.00	-13.87	0.00	13.87	1,120.07	560.03	1,066.50	526.70	2.85	-0.25	0.029
130.00	-3.34	-0.36	0.00	-13.51	0.00	13.51	1,115.13	557.56	1,053.90	520.48	2.90	-0.25	0.029
131.00	-3.27	-0.36	0.00	-13.15	0.00	13.15	1,110.14	555.07	1,041.34	514.28	2.96	-0.25	0.029
132.00	-3.20	-0.37	0.00	-12.79	0.00	12.79	1,105.10	552.55	1,028.79	508.08	3.01	-0.26	0.028
133.00	-3.13	-0.37	0.00	-12.42	0.00	12.42	1,100.01	550.01	1,016.28	501.90	3.06	-0.26	0.028
134.00	-3.06	-0.37	0.00	-12.05	0.00	12.05	1,094.88	547.44	1,003.79	495.73	3.12	-0.26	0.027
135.00	-2.99	-0.37	0.00	-11.68	0.00	11.68	1,089.69	544.84	991.33	489.58	3.17	-0.27	0.027
136.00	-2.92	-0.37	0.00	-11.31	0.00	11.31	1,084.45	542.23	978.89	483.44	3.23	-0.27	0.026
137.00	-2.86	-0.37	0.00	-10.93	0.00	10.93	1,079.17	539.59	966.49	477.31	3.29	-0.27	0.026
138.00	-2.79	-0.38	0.00	-10.56	0.00	10.56	1,073.84	536.92	954.12	471.20	3.34	-0.28	0.025
139.00	-2.72	-0.38	0.00	-10.18	0.00	10.18	1,068.46	534.23	941.78	465.11	3.40	-0.28	0.024
140.00	-2.65	-0.38	0.00	-9.81	0.00	9.81	1,063.03	531.51	929.48	459.03	3.46	-0.28	0.024
141.00	-2.59	-0.38	0.00	-9.43	0.00	9.43	1,057.55	528.77	917.21	452.97	3.52	-0.29	0.023
142.00	-2.52	-0.37	0.00	-9.06	0.00	9.06	1,052.02	526.01	904.97	446.93	3.58	-0.29	0.023
143.00	-2.45	-0.37	0.00	-8.68	0.00	8.68	1,046.44	523.22	892.77	440.91	3.64	-0.29	0.022
144.00	-2.39	-0.37	0.00	-8.31	0.00	8.31	1,040.82	520.41	880.61	434.90	3.70	-0.30	0.021
145.00	-2.32	-0.37	0.00	-7.94	0.00	7.94	1,035.14	517.57	868.49	428.91	3.77	-0.30	0.021
146.00	-2.26	-0.37	0.00	-7.57	0.00	7.57	1,029.42	514.71	856.41	422.95	3.83	-0.30	0.020
147.00	-2.19	-0.37	0.00	-7.20	0.00	7.20	1,023.64	511.82	844.36	417.00	3.89	-0.30	0.019
148.00	-2.13	-0.36	0.00	-6.83	0.00	6.83	1,017.82	508.91	832.36	411.07	3.96	-0.31	0.019
149.00	-2.07	-0.36	0.00	-6.47	0.00	6.47	1,011.95	505.97	820.40	405.17	4.02	-0.31	0.018
150.00	-1.62	-0.33	0.00	-6.11	0.00	6.11	1,006.03	503.01	808.49	399.28	4.09	-0.31	0.017
151.00	-1.56	-0.33	0.00	-5.78	0.00	5.78	1,000.06	500.03	796.62	393.42	4.15	-0.32	0.016
152.00	-1.50	-0.32	0.00	-5.45	0.00	5.45	994.04	497.02	784.80	387.58	4.22	-0.32	0.016
153.00	-1.45	-0.32	0.00	-5.13	0.00	5.13	987.57	493.78	772.70	381.61	4.29	-0.32	0.015
154.00	-1.39	-0.31	0.00	-4.81	0.00	4.81	978.74	489.37	758.87	374.78	4.35	-0.32	0.014
155.00	-1.33	-0.31	0.00	-4.50	0.00	4.50	969.92	484.96	745.17	368.01	4.42	-0.32	0.014
156.00	-1.28	-0.30	0.00	-4.19	0.00	4.19	961.09	480.55	731.59	361.31	4.49	-0.33	0.013
157.00	-1.22	-0.29	0.00	-3.89	0.00	3.89	952.26	476.13	718.14	354.66	4.56	-0.33	0.012
158.00	-1.16	-0.29	0.00	-3.60	0.00	3.60	943.44	471.72	704.81	348.08	4.63	-0.33	0.012
159.00	-1.11	-0.28	0.00	-3.31	0.00	3.31	934.61	467.31	691.61	341.56	4.70	-0.33	0.011
160.00	-1.05	-0.27	0.00	-3.03	0.00	3.03	925.79	462.89	678.53	335.10	4.77	-0.33	0.010
161.00	-1.00	-0.26	0.00	-2.76	0.00	2.76	916.96	458.48	665.57	328.70	4.84	-0.34	0.009
162.00	-0.94	-0.25	0.00	-2.50	0.00	2.50	908.13	454.07	652.74	322.37	4.91	-0.34	0.009
163.00	-0.89	-0.24	0.00	-2.25	0.00	2.25	899.31	449.65	640.04	316.09	4.98	-0.34	0.008
164.00	-0.83	-0.23	0.00	-2.00	0.00	2.00	890.48	445.24	627.46	309.88	5.05	-0.34	0.007
165.00	-0.78	-0.22	0.00	-1.77	0.00	1.77	881.65	440.83	615.01	303.73	5.12	-0.34	0.007
166.00	-0.73	-0.21	0.00	-1.55	0.00	1.55	872.83	436.41	602.68	297.64	5.19	-0.34	0.006
167.00	-0.68	-0.20	0.00	-1.34	0.00	1.34	864.00	432.00	590.47	291.61	5.26	-0.34	0.005
168.00	-0.62	-0.19	0.00	-1.14	0.00	1.14	855.17	427.59	578.39	285.65	5.33	-0.34	0.005
169.00	-0.57	-0.17	0.00	-0.95	0.00	0.95	846.35	423.17	566.44	279.74	5.41	-0.34	0.004
170.00	-0.52	-0.16	0.00	-0.78	0.00	0.78	837.52	418.76	554.61	273.90	5.48	-0.35	0.003
171.00	-0.40	-0.13	0.00	-0.61	0.00	0.61	828.70	414.35	542.90	268.12	5.55	-0.35	0.003
172.00	-0.36	-0.12	0.00	-0.48	0.00	0.48	819.87	409.93	531.32	262.40	5.62	-0.35	0.002
173.00	-0.31	-0.10	0.00	-0.37	0.00	0.37	811.04	405.52	519.86	256.74	5.70	-0.35	0.002
174.00	-0.26	-0.09	0.00	-0.26	0.00	0.26	802.22	401.11	508.53	251.15	5.77	-0.35	0.001
175.00	-0.22	-0.08	0.00	-0.17	0.00	0.17	793.39	396.70	497.33	245.61	5.84	-0.35	0.001
176.00	-0.13	-0.05	0.00	-0.10	0.00	0.10	784.56	392.28	486.25	240.14	5.91	-0.35	0.001
177.00	-0.09	-0.03	0.00	-0.05	0.00	0.05	775.74	387.87	475.29	234.73	5.99	-0.35	0.000
178.00	-0.04	-0.02	0.00	-0.02	0.00	0.02	766.91	383.46	464.46	229.38	6.06	-0.35	0.000

179.00	0.00	0.00	0.00	0.00	0.00	0.00	758.08	379.04	453.75	224.09	6.13	-0.35	0.000
180.00	0.00	0.00	0.00	0.00	0.00	0.00	749.26	374.63	443.17	218.87	6.21	-0.35	0.000

Site Number: 302501

Code: ANSI/TIA-222-G

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Site Name: Plymouth CT 3, CT

Engineering Number: OAA692457_C3_03

1/11/2017 3:57:45 PM

Customer: AT&T Mobility

Analysis Summary

Load Case	Reactions						Max Usage	
	Shear FX (kips)	Shear FZ (kips)	Axial FY (kips)	Moment MX (ft-kips)	Moment MY (ft-kips)	Moment MZ (ft-kips)	Elev (ft)	Interaction Ratio
1.2D + 1.6W	23.64	0.00	33.17	0.00	0.00	2664.10	0.00	0.87
0.9D + 1.6W	21.77	0.00	24.88	0.00	0.00	2440.62	0.00	0.80
1.2D + 1.0Di + 1.0Wi	3.86	0.00	72.27	0.00	0.00	537.66	90.00	0.20
(1.2 + 0.2Sds) * DL + E ELFM	0.76	0.00	31.09	0.00	0.00	97.40	0.00	0.04
(1.2 + 0.2Sds) * DL + E EMAM	0.85	0.00	31.09	0.00	0.00	70.40	124.99	0.03
(0.9 - 0.2Sds) * DL + E ELFM	0.76	0.00	21.59	0.00	0.00	95.85	0.00	0.04
(0.9 - 0.2Sds) * DL + E EMAM	0.85	0.00	21.59	0.00	0.00	69.33	124.99	0.03
1.0D + 1.0W	5.66	0.00	27.65	0.00	0.00	641.46	0.00	0.22

Base/Flange Plate	Plate Type	Baseplate
	Pole Diameter	44 in
	Pole Thickness	0.375 in
	Plate Diameter	52.84 in
	Plate Thickness	2.5 in
	Plate Fy	60 ksi
	Weld Length	0.3125 in
	ϕ_s Resistance	554.61 k-in
	Applied	158.08 k-in
Stiffeners	#	0

Bolts	#	12
	Bolt Circle (R)adial / (S)quare	48.42 in R
	Diameter	2.25 in
	Hole Diameter	2.375 in
	Type	A615-75
	Fy	75 ksi
	Fu	100 ksi
	ϕ_s Resistance	259.82 k
	Applied	222.65 k
Reinforcement	#	0
Extra Bolts	#	0

Code Rev.

G

Date

1/11/2017

Engineer

JDB

Site #

302501

Carrier

AT&T

Moment

2664.1 k-ft

Axial

33.2 k

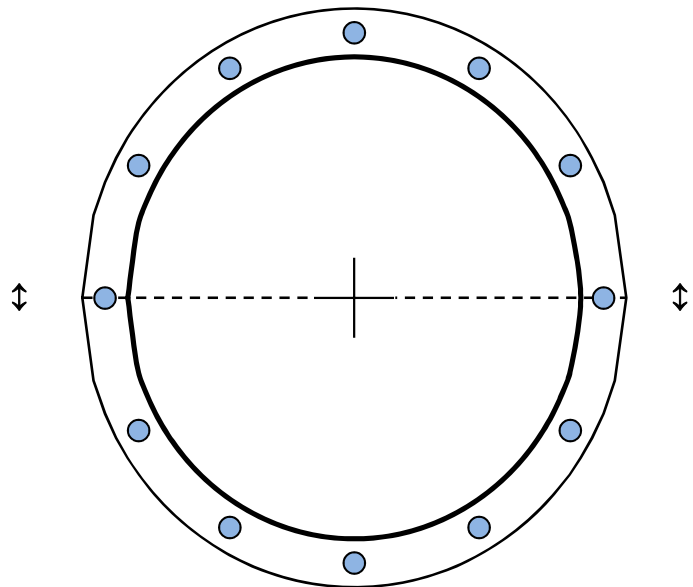


Plate Stress Ratio:

0.29 (Pass)

Bolt Stress Ratio:

0.86 (Pass)

Base/Flange Plate	Plate Type	Flange @ 125.0 ft
	Pole Diameter	24 in
	Pole Thickness	0.21875 in
	Plate Diameter	30.78 in
	Plate Thickness	1.25 in
	Plate Fy	60 ksi
	Weld Length	0.3125 in
	ϕ_s Resistance	164.20 k-in
	Applied	52.68 k-in
Stiffeners	#	8 Show
	Thickness	0.5 in
	Length	3 in
	Height	6 in
	Chamfer	1 in
	Offset Angle	0 °
	Fy	36 ksi

Bolts	#	16
	Bolt Circle	28.28 in
	(R)adial / (S)quare	R
	Diameter	1 in
	Hole Diameter	1.13 in
	Type	A490
	Fy	130 ksi
	Fu	150 ksi
	ϕ_s Resistance	68.15 k
	Applied	41.72 k

Reinforcement	#	0

Extra Bolts	#	0

Code Rev. **G**

Date **1/11/2017**
 Engineer **JDB**
 Site # **302501**
 Carrier **AT&T**

Moment **397.4 k-ft**
 Axial **6.6 k**

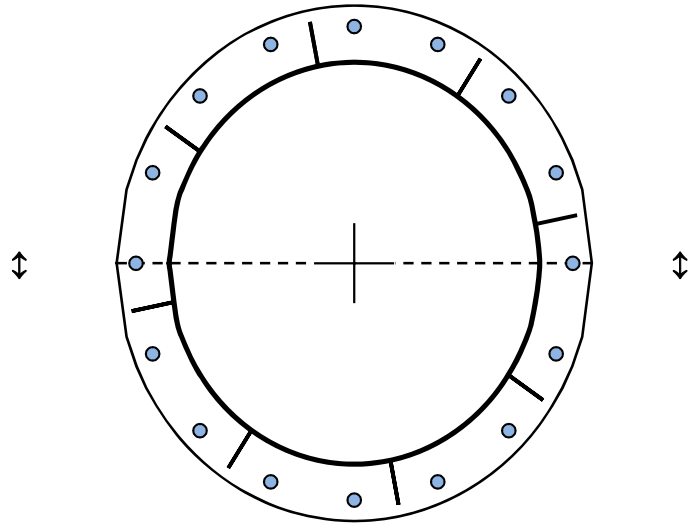
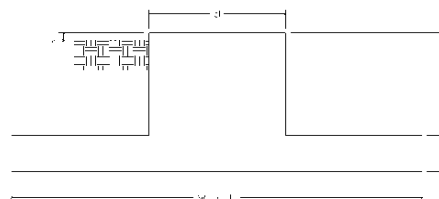


Plate Stress Ratio:
0.32 (Pass)

Bolt Stress Ratio:
0.61 (Pass)

Site Name: Plymouth CT 3, CT
 Site Number: 302501
 Engineering Number: OAA692457
 Engineer: JDB
 Date: 01/11/17
 Tower Type: MP

Program Last Updated: 5/13/2014



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

Design / Analysis / Mapping:

Analysis

Total Shear: 23.6 k
 Moment: 2664.1 k-ft
 Tower + Appurtenance Weight: 33.2 k
 Depth to Base of Foundation (l + t - h): 11.00 ft
 Diameter of Pier (d): 6.00 ft
 Height of Pier above Ground (h): 0.50 ft
 Width of Pad (W): 20.00 ft
 Length of Pad (L): 20.00 ft
 Thickness of Pad (t): 3.00 ft
 Tower Leg Center to Center: 0.00 ft
 Number of Tower Legs: 1.0 (1 if MP or GT)

Depth Below Ground Surface to Water Table: 13.00 ft
 Unit Weight of Concrete: 150.0 pcf
 Unit Weight of Soil Above Water Table: 115.0 pcf
 Unit Weight of Water: 62.4 pcf
 Unit Weight of Soil Below Water Table: 52.6 pcf
 Friction Angle of Uplift: 15.0 Degrees
 Ultimate Coefficient of Shear Friction: 0.35
 Ultimate Compressive Bearing Pressure: 15000.0 psf
 Ultimate Passive Pressure on Pad Face: 747.5 psf
 $\phi_{\text{Soil and Concrete Weight}}$: 0.9
 ϕ_{Soil} : 0.75

Concrete Strength (f'_c): 3000 psi
 Pad Tension Steel Depth: 32.00 in
 ϕ_{Shear} : 0.75
 $\phi_{\text{Flexure / Tension}}$: 0.90
 $\phi_{\text{Compression}}$: 0.65
 β : 0.85
 Bottom Pad Rebar Size #: 10
 # of Bottom Pad Rebar: 39
 Pad Bottom Steel Area: 49.53 in²
 Pad Steel F_y : 60000 psi
 Top Pad Rebar Size #: 5
 # of Top Pad Rebar: 39
 Pad Top Steel Area: 12.09 in²
 Pier Rebar Size #: 11
 Pier Steel Area (Single Bar): 1.56 in²
 # of Pier Rebar: 52
 Pier Steel F_y : 60000 psi
 Pier Cage Diameter: 64.0 in
 Rebar Strain Limit: 0.008
 Steel Elastic Modulus: 29000 ksi
 Tie Rebar Size #: 4
 Tie Steel Area (Single Bar): 0.20 in²
 Tie Spacing: 12 in
 Tie Steel F_y : 60000 psi

Overturning Moment Usage

Design OTM: 2936.0 k-ft
 OTM Resistance: 6029.7 k-ft
 Design OTM / OTM Resistance: 0.49 Result: OK

Soil Bearing Pressure Usage

Net Bearing Pressure: 3458 psf
 Factored Nominal Bearing Pressure: 11250 psf
 Net Bearing Pressure/Factored Nominal Bearing Pressure: 0.31 Result: OK
 Load Direction Controlling Design Bearing Pressure: Diagonal to Pad Edge

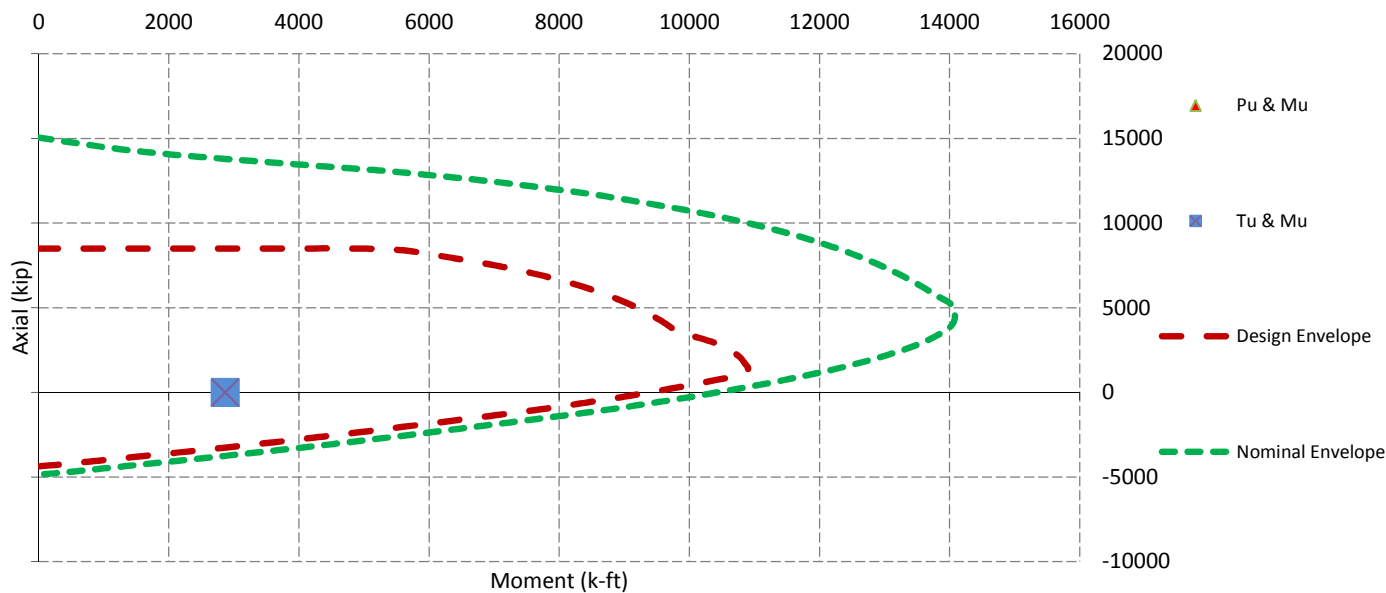
Sliding Factor of Safety

Total Factored Sliding Resistance: 184.0 k
 Sliding Design / Sliding Resistance: 0.13 Result: OK

One Way Shear, Flexual Capacity, and Punching Shear

Factored One Way Shear (V_u):	158.0 k
One Way Shear Capacity (ϕV_c):	534.8 k - ACI11.3.1.1
$V_u / \phi V_c$:	0.30 Result: OK
Load Direction Controlling Shear Capacity:	Diagonal to Pad Edge
Lower Steel Pad Factored Moment (M_u):	974.1 k-ft
Lower Steel Pad Moment Capacity (ϕM_n):	6672.3 k-ft - ACI10.3
$M_u / \phi M_n$:	0.15 Result: OK
Load Direction Controlling Flexural Capacity:	Parallel to Pad Edge
Upper Steel Pad Factored Moment (M_u):	744.1 k-ft
Upper Steel Pad Moment Capacity (ϕM_n):	1713.6 k-ft
$M_u / \phi M_n$:	0.43 Result: OK
Lower Pad Flexural Reinforcement Ratio:	0.0064 OK - Minimum Reinforcement Ratio Met - ACI10.5.1
Upper Pad Flexural Reinforcement Ratio:	0.0016 OK - Minimum Reinforcement Ratio Met - ACI10.5.1
Lower Pad Reinforcement Spacing:	6 in - Pad Reinforcing Spacing OK - ACI7.12.2.2 & 10.5.4
Upper Pad Reinforcement Spacing:	6 in - Pad Reinforcing Spacing OK - ACI7.12.2.2 & 10.5.4
Factored Punching Shear (V_u):	-91.6 k
Nominal Punching Shear Capacity ($\phi_c V_n$):	1718.0 k - ACI11.12.2.1
$V_u / \phi V_c$:	-0.05 Result: OK
Factored Moment in Pier (M_u):	2865.0 k-ft
Pier Moment Capacity (ϕM_n):	11423.2 k-ft
$M_u / \phi M_n$:	0.25 Result: OK
Factored Shear in Pier (V_u):	23.6 k
Pier Shear Capacity (ϕV_n):	334.5 k
$V_u / \phi V_c$:	0.07 Result: OK
Pier Shear Reinforcement Ratio:	0.0005 No Ties Necessary for Shear - ACI11.5.6.1
Factored Tension in Pier (T_u):	0.0 k
Pier Tension Capacity (ϕT_n):	4380.5 k
$T_u / \phi T_n$:	0.00 Result: OK
Factored Compression in Pier (P_u):	0.0 k
Pier Compression Capacity (ϕP_n):	5291.2 k - ACI10.3.6.2
$P_u / \phi P_n$:	0.00 Result: OK
Pier Compression Reinforcement Ratio:	0.020 OK - Reinforcement Ratio Met - ACI10.9.1 & 10.8.4
$M_u / \phi_B M_n + T_u / \phi_T T_n$:	0.25 Result: OK

Nominal and Design Moment Capacity and Factored Design Loads

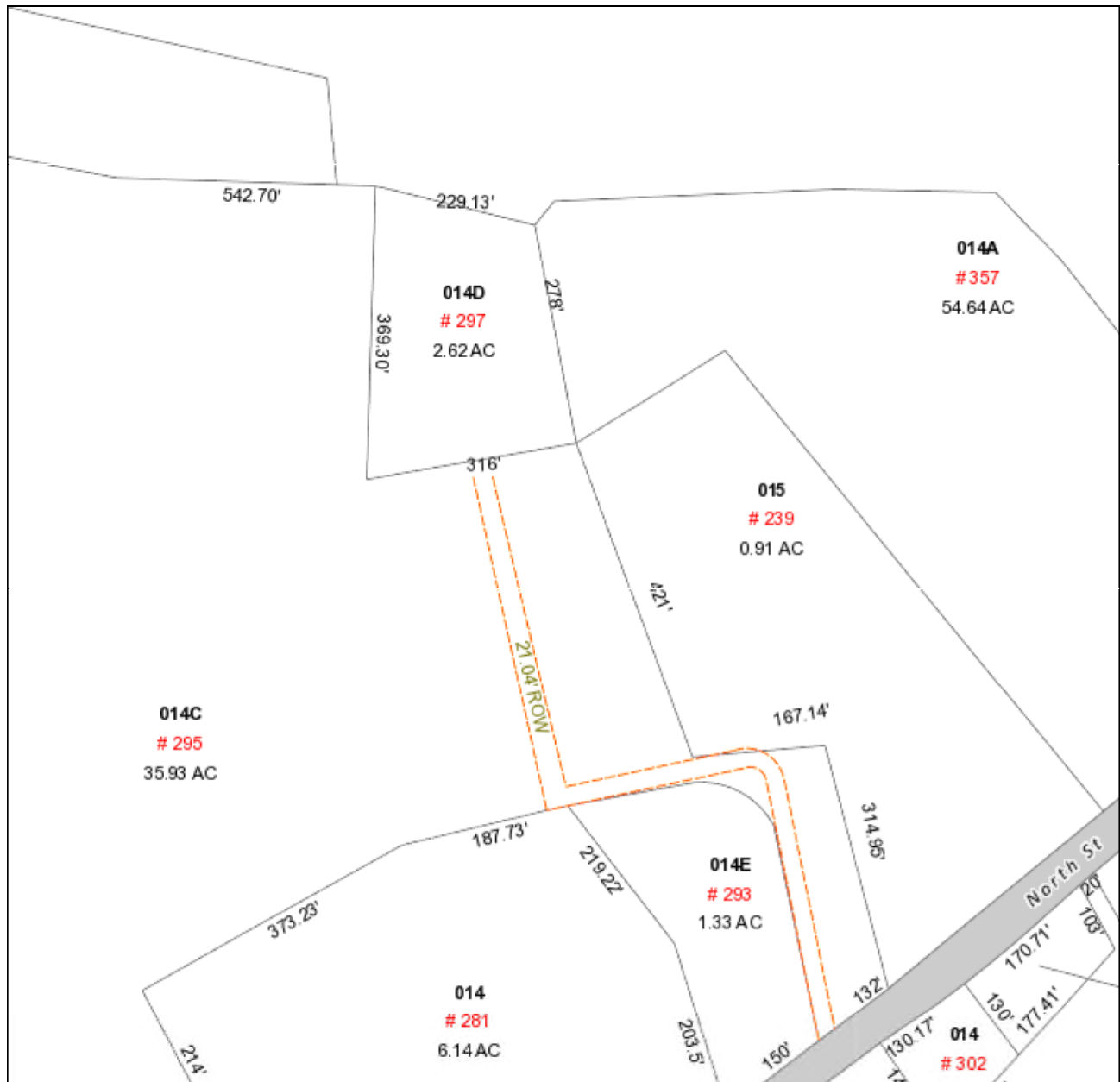


Town of Plymouth

Geographic Information System (GIS)



Date Printed: 1/18/2017



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Approximate Scale: 1 inch = 200 feet

