



May 3, 2018

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

Regarding: Notice of Exempt Modification – Equipment Upgrades
Property Address: 20 Post Office Lane Westport, CT 06880 (aka Maple Ln., per
Town of Westport, CT)
AT&T Site: CT2103 // FA# 100035073

Dear Ms. Bachman:

AT&T currently maintains a wireless telecommunications facility on an existing 142-foot monopole tower at the above-referenced address, latitude 41.12346944, longitude -73.31306111. Said monopole is owned by American Tower Corporation. The existing equipment shelter is 24.5' x 12' totaling 294 square feet.

AT&T desires to modify its existing telecommunications facility by swapping (3) panel antennas, installing three (3) remote radio units, adding (3) low band couplers (diplexers) and adding (1) DC/Fiber Squid with associated cabling as detailed in the enclosed plans by Centek. The centerline height of the existing antenna installation is and will remain at 131 feet. The Structural Analysis completed by Tower Engineering Professionals on January 3, 2018, reflects the addition of (6) Diplexers due to AT&T's leased rights, however, only (3) will be installed on the tower.

Please accept this application as notification pursuant to R.C.S.A. §16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. §16-50j-72 (b)(2). In accordance with R.C.S.A. §16-50j-73, a copy of this letter is being sent to The First Selectman of the Town of Westport, the Planning and Zoning Director, tower owner, American Tower Corp., and ground owner, Jay Sherwood.

The planned modifications to AT&T's facility fall squarely within those activities explicitly provided for in R.C.S.A. §16-50j-72 (b)(2). Specifically:

1. The planned modification will not result in an increase in the height of the existing structure. The equipment to be added will be installed at the existing height of 131 feet on the 142-foot tower.

May 3, 2018
Page 2 of 2

2. The proposed modifications will not involve any changes to ground-mounted equipment, and therefore will not require an extension of the site boundary.
3. The proposed modification will not increase the noise level at the facility by six decibels or more, or to levels that exceed state and local criteria.
4. The operation of the modified facility will not increase radio frequency (RF) emissions at the facility to a level at or above Federal Communications Commission (FCC) safety standard. An RF emissions calculation (enclosed) for AT&T's modified facility is herein provided.
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 AT&T's proposed modifications (please see enclosed structural analysis completed by Tower Engineering Professionals dated January 3, 2018).

For the foregoing reasons, AT&T respectfully requests that the proposed installation be allowed within the exempt modifications under R.C.S.A. §16-50j-72 (b)(2).

Sincerely,

Kristen White

Kristen White
Site Acquisition Specialist

Enclosures: Exhibit 1 – Property Card and GIS Map
Exhibit 2 – Construction Drawings
Exhibit 3 – Structural Analysis
Exhibit 4 – RF Emissions Analysis Report Evaluation

cc: Mr. James Marpe, First Selectman, Town of Westport (Municipality)
Ms. Mary Young, Planning and Zoning Director (Municipality)
Mr. Steve Smith, Building Official (Municipality)
Mr. Jay Sherwood (Landowner)
American Tower Corporation (Tower Owner)

Exhibit 1

MAPLE LN

Location MAPLE LN

Mblu H06/ / 017/000 /

Acct# 5452217-C

Owner SHERWOOD JAY

Assessment \$919,330

Appraisal \$1,313,300

PID 7785

Building Count 1

Current Value

Appraisal			
Valuation Year	Improvements	Land	Total
2015	\$1,253,900	\$59,400	\$1,313,300

Assessment			
Valuation Year	Improvements	Land	Total
2015	\$877,730	\$41,600	\$919,330

Owner of Record

Owner SHERWOOD JAY

Sale Price \$0

Co-Owner

Certificate 1

Address P O BOX 48
WESTPORT, CT 06881

Book & Page 469/ 137

Sale Date 12/08/1977

Instrument 29

Ownership History

Ownership History					
Owner	Sale Price	Certificate	Book & Page	Instrument	Sale Date
SHERWOOD JAY	\$0	1	469/ 137	29	12/08/1977

Building Information

Building 1 : Section 1

Year Built:

Living Area: 0

Replacement Cost: \$0

Building Percent

Good:

Replacement Cost

Less Depreciation: \$0

Building Attributes	
Field	Description

Building Layout

 Building Layout

(<http://images.vgsi.com/photos2/WestportCTPhotos//Sketches/7>)

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

Style	Outbuildings
Model	
Grade:	
Stories:	
Occupancy	
Exterior Wall 1	
Exterior Wall 2	
Roof Structure:	
Roof Cover	
Interior Wall 1	
Interior Wall 2	
Interior Flr 1	
Interior Flr 2	
Heat Fuel	
Heat Type:	
AC Type:	
Total Bedrooms:	
Total Bthrms:	
Total Half Baths:	
Total Xtra Fixtrs:	
Total Rooms:	
Bath Style:	
Kitchen Style:	
Kitchens	
Whirlpool Tubs	
Hot Tubs	
Sauna (SF Area)	
Fin Basement	
Fin Bsmt Qual	
Bsmt. Garages	
Interior Cond	
Fireplaces	
Ceiling Height	
Sprinklers	
Acc Apts	

Extra Features

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

Land

Land Use

Use Code	100
Description	Res Vacant Lnd
Zone	AAA
Neighborhood	140
Alt Land Appr Category	No

Land Line Valuation

Size (Acres)	2.07
Frontage	0
Depth	0
Assessed Value	\$41,600
Appraised Value	\$59,400

Outbuildings

Outbuildings						Legend
Code	Description	Sub Code	Sub Description	Size	Value	Bldg #
CELL	Cell on TWR	TW		5 Sites	\$1,253,900	1

Valuation History

Appraisal			
Valuation Year	Improvements	Land	Total
2017	\$1,253,900	\$59,400	\$1,313,300
2016	\$1,253,900	\$59,400	\$1,313,300
2014	\$818,000	\$54,625	\$872,625

Assessment			
Valuation Year	Improvements	Land	Total
2017	\$877,730	\$41,600	\$919,330
2016	\$877,730	\$41,600	\$919,330
2014	\$572,600	\$38,200	\$610,800





20 Post Office Ln
Westport, CT 06880



Exhibit 2



WIRELESS COMMUNICATIONS FACILITY

CT2103 - LTE 3C

WESTPORT SOUTH

19-20 POST OFFICE LANE

WESTPORT, CT 06880

PROJECT SUMMARY

1. THE PROPOSED SCOPE OF WORK CONSISTS OF A MODIFICATION TO THE EXISTING UNMANNED TELECOMMUNICATIONS FACILITY INCLUDING THE FOLLOWING:
 - A. ANTENNA CHANGES:
 - REMOVE POWERLINE ANTENNA AT POS. 3 (TOTAL OF 3)
 - INSTALL QUINTEL ANTENNA AT POS. 2 (TOTAL OF 3)
 - INSTALL QUINTEL ANTENNA AT POS. 1 (TOTAL OF 3)
 - INSTALL PRR-52 AT POS. 2 (TOTAL OF 3)
 - INSTALL LOW BAND COMBINERS (TOTAL OF 3)
 - B. AT THE EQUIPMENT SHELTER
 - INSTALL NEW BAND COMBINERS (TOTAL OF 3)
 - IN LTE RACK, SWITCH BE TO 5245
 - MOVE RET TO LIMITS

PROJECT INFORMATION

AT&T SITE NUMBER: CT2103
 WESTPORT
 19-20 POST OFFICE LANE
 WESTPORT, CT 06880

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

AT&T PACE ID NUMBER: PACE JOB 1 - MRC2B026752

AT&T FA LOCATION CODE: 10039073

ENGINEER:
 CENTEX ENGINEERING, INC.
 1000 WASHINGTON ROAD
 BRANFORD, CT 06405

PROJECT COORDINATES:
 LATITUDE: 41°-57'-24.61" N
 LONGITUDE: 73°-19'-47.60" W
 GROUND ELEVATION: 430' ASEL
 SITE COORDINATES AND GROUND ELEVATION REFERENCED FROM GOOGLE EARTH.

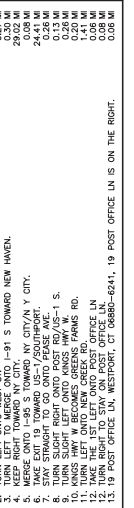
SHEET INDEX

SHT. NO.	DESCRIPTION	REV.
T-1	TITLE SHEET	0
N-1	NOTES, SPECIFICATIONS AND ANTENNA SCHEDULE	0
C-1	PLANS AND ELEVATION	0
C-2	ANTENNA CONFIGURATION DETAILS	0
C-3	DETAILS	0
E-1	SCHEMATIC DIAGRAM AND NOTES	0
E-2	WIRING DIAGRAM	0
E-3	TYPICAL ELECTRICAL DETAILS	0

SITE DIRECTIONS

- FROM: 500 ENTERPRISE DRIVE
 WESTPORT, CONNECTICUT
1. TURN LEFT ONTO WEST ST. (0.37 M)
 2. TURN LEFT ONTO WEST ST. (0.37 M)
 3. TURN LEFT ONTO WEST ST. (0.37 M)
 4. MERGE ONTO I-95 S TOWARD NEW HAVEN. (20.30 M)
 5. MERGE ONTO I-95 S TOWARD NY CITY/VA CITY. (0.08 M)
 6. TAKE THE RIGHT OFF RAMP TO I-95 S. (24.34 M)
 7. TAKE STRAIGHT TO I-95 ON I-95 S. (0.13 M)
 8. TURN SLIGHT RIGHT ONTO POST OFFICE LN. (0.20 M)
 9. TAKE THE RIGHT OFF RAMP TO I-95 S. (0.08 M)
 10. KINGS HWY BECOMES GREENS FARMS RD. (0.08 M)
 11. TAKE THE LEFT OFF RAMP TO POST OFFICE LN. (0.08 M)
 12. TURN RIGHT TO STAY ON POST OFFICE LN. (0.08 M)
 13. I-95 POST OFFICE LN. WESTPORT, CT 06880-2641, 19 POST OFFICE LN IS ON THE RIGHT. (0.18 M)

VICINITY MAP



GENERAL NOTES

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2012 INTERNATIONAL BUILDING CODE AS MODIFIED BY THE 2014 CONNECTICUT STATE BUILDING CODE, THE 2010 CONNECTICUT STATE ELECTRICAL CODE, THE 2010 CONNECTICUT STATE MECHANICAL CODE, THE 2010 CONNECTICUT STATE PLUMBING CODE, THE 2010 CONNECTICUT STATE FIRE ALARMS AND SMOKE DETECTORS CODE, THE 2010 CONNECTICUT STATE SAFETY CODE AND NATIONAL ELECTRICAL CODE AND LOCAL CODES.
2. THE COMPASS, TOWER, PRIMARY GROUND RING, ELECTRICAL SERVICE TO THE METER BANK AND TELEPHONE SERVICE TO THE FIELD CONDITIONS REGARDING THESE ITEMS SHALL BE DETERMINED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND SHALL NOT PROCEED WITH ANY FURTHER WORK UNTIL ALL PERMITS AND APPROVALS ARE OBTAINED.
3. THE CONTRACT DOCUMENT SET, CONTRACTOR SHALL COORDINATE ALL WORK SHOWN IN THE SET OF DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND SHALL NOT PROCEED WITH ANY FURTHER WORK UNTIL ALL PERMITS AND APPROVALS ARE OBTAINED.
4. CONTRACTOR SHALL PROVIDE A COMPLETE BUILD-OUT WITH ALL FINISHES, STRUCTURAL, MECHANICAL, AND ELECTRICAL COMPONENTS AS SHOWN IN THE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND SHALL NOT PROCEED WITH ANY FURTHER WORK UNTIL ALL PERMITS AND APPROVALS ARE OBTAINED.
5. CONTRACTOR SHALL FURNISH ALL MATERIAL, LABOR AND EQUIPMENT TO COMPLETE THE WORK AND FURNISH A COMPLETED JOB ALL IN ACCORDANCE WITH LOCAL AND STATE REGULATIONS, ORDINANCES AND CODES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND SHALL NOT PROCEED WITH ANY FURTHER WORK UNTIL ALL PERMITS AND APPROVALS ARE OBTAINED.
6. CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS AND ALL INSPECTIONS REQUIRED AND SHALL ALSO PAY FEES REQUIRED FOR THE GENERAL CONSTRUCTION, PLUMBING, ELECTRICAL AND HVAC. PERMITS SHALL BE PAID FOR BY THE RESPECTIVE SUBCONTRACTORS. SPECIFICATIONS ON SITE AT ALL TIMES AND INSURE DISTRIBUTION OF NEW DRAWINGS TO SUBCONTRACTORS AND OTHER RELEVANT PARTIES AS NECESSARY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND SHALL NOT PROCEED WITH ANY FURTHER WORK UNTIL ALL PERMITS AND APPROVALS ARE OBTAINED.
7. CONTRACTOR SHALL FURNISH APPROXIMATELY 10% SET OF DRAWINGS TO THE GENERAL CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND SHALL NOT PROCEED WITH ANY FURTHER WORK UNTIL ALL PERMITS AND APPROVALS ARE OBTAINED.
8. LOCATION OF EQUIPMENT AND WORK SHALL BE DETERMINED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND SHALL NOT PROCEED WITH ANY FURTHER WORK UNTIL ALL PERMITS AND APPROVALS ARE OBTAINED.
9. THE CONTRACTOR IS SOLELY RESPONSIBLE TO DETERMINE CONSTRUCTION PROCEDURES AND SEQUENCE AND TO ENSURE THE SAFETY OF THE EXISTING STRUCTURE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND SHALL NOT PROCEED WITH ANY FURTHER WORK UNTIL ALL PERMITS AND APPROVALS ARE OBTAINED.
10. DRAWINGS INDICATE THE MINIMUM STANDARDS, BUT IF ANY WORK SHOULD BE INDICATED TO BE SUBSTANDARD TO ANY ORDINANCES, THE CONTRACTOR SHALL INCLUDE IN HIS WORK AND SHALL EXECUTE THE WORK TO MEET THE MINIMUM STANDARDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND SHALL NOT PROCEED WITH ANY FURTHER WORK UNTIL ALL PERMITS AND APPROVALS ARE OBTAINED.
11. ALL UTILITY WORK SHALL BE IN ACCORDANCE WITH LOCAL UTILITY COMPANY REQUIREMENTS AND SPECIFICATIONS.
12. ALL EQUIPMENT AND PRODUCTS PURCHASED ARE TO BE REVIEWED BY CONTRACTOR AND ALL APPLICABLE SUBCONTRACTORS FOR ANY DEFICIENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND SHALL NOT PROCEED WITH ANY FURTHER WORK UNTIL ALL PERMITS AND APPROVALS ARE OBTAINED.
13. ANY AND ALL ERRORS, DISCREPANCIES, AND "MISSED" ITEMS ARE TO BE ALLOWED FOR MISSED ITEMS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND SHALL NOT PROCEED WITH ANY FURTHER WORK UNTIL ALL PERMITS AND APPROVALS ARE OBTAINED.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ON-SITE SAFETY FROM THE TIME THE JOB IS AWARDED UNTIL ALL WORK IS COMPLETE AND ACCEPTED BY THE OWNER.
15. CONTRACTOR TO REVIEW ALL SHOP DRAWINGS AND SUBMIT COPY TO THE ENGINEER FOR REVIEW. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND SHALL NOT PROCEED WITH ANY FURTHER WORK UNTIL ALL PERMITS AND APPROVALS ARE OBTAINED.
16. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, ELEVATIONS, AND LOCATIONS OF ALL EXISTING UTILITIES AND STRUCTURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND SHALL NOT PROCEED WITH ANY FURTHER WORK UNTIL ALL PERMITS AND APPROVALS ARE OBTAINED.
17. COORDINATION, LAYOUT, FURNISHING AND INSTALLATION OF CONDUIT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND SHALL NOT PROCEED WITH ANY FURTHER WORK UNTIL ALL PERMITS AND APPROVALS ARE OBTAINED.
18. ALL EQUIPMENT AND PRODUCTS PURCHASED ARE TO BE RECOMMENDED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND SHALL NOT PROCEED WITH ANY FURTHER WORK UNTIL ALL PERMITS AND APPROVALS ARE OBTAINED.
19. ALL DAMAGE CAUSED TO ANY EXISTING STRUCTURE SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND SHALL NOT PROCEED WITH ANY FURTHER WORK UNTIL ALL PERMITS AND APPROVALS ARE OBTAINED.
20. THE CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" AT LEAST 48 HOURS PRIOR TO ANY EXCAVATIONS AT 1-800-922-4455. ALL UTILITIES SHALL BE IDENTIFIED AND CLEARLY MARKED PRIOR TO ANY EXCAVATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND SHALL NOT PROCEED WITH ANY FURTHER WORK UNTIL ALL PERMITS AND APPROVALS ARE OBTAINED.
21. CONTRACTOR SHALL COMPLY WITH OWNERS ENVIRONMENTAL ENGINEER ON ALL METHODS AND PROVISIONS FOR ALL EXCAVATION ACTIVITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND SHALL NOT PROCEED WITH ANY FURTHER WORK UNTIL ALL PERMITS AND APPROVALS ARE OBTAINED.

NOTES AND SPECIFICATIONS

DESIGN BASIS

- 1. DESIGN CATEGORY: II (BASED ON IBC TABLE 1604.4)
- 2. WIND LOAD: PER TABLE 222 G (ANTENNA MOUNTS); 90-110 MPH (3 SECOND GUST)
- 3. RISK CATEGORY: II (BASED ON IBC TABLE 1604.4)
- 4. NOMINAL DESIGN SPEED (OTHER STRUCTURE): 83 MPH (VWD) (EXPOSURE B)
- 5. BUILDING CODE: PER IBC AS AMENDED BY THE 2010 CONNECTICUT STATE BUILDING CODE.
- 6. DESIGN LOADS (DOES NOT CONTROL): PER CODE 7-10 MINIMUM DESIGN LOADS FOR BUILDING AND OTHER STRUCTURES.

GENERAL NOTES

- ALL CONSTRUCTION SHALL BE IN COMPLIANCE WITH THE COVERING BUILDING CODE.
- ALL DIMENSIONS, ELEVATIONS, AND OTHER REFERENCES TO EXISTING STRUCTURES, SHALL BE SUBSTANTIATED TO ANY ORDINANCES, LAWS, CODES, RULES, OR REGULATIONS BEARING ON THE WORK. THE CONTRACTOR SHALL INCLUDE IN HIS ORDINANCES, LAWS, CODES, RULES OR REGULATIONS WITH NO INCREASE IN COSTS.
- BEFORE BEGINNING THE WORK, THE CONTRACTOR IS RESPONSIBLE FOR MAKING SUCH INVESTIGATIONS CONCERNING PHYSICAL CONDITIONS (SURFACE AND SUBSURFACE) AS MAY AFFECT THE WORK, WHICH MAY AFFECT PERFORMANCE AND COST OF THE WORK.
- DIMENSIONS AND DETAILS SHALL BE CHECKED AGAINST EXISTING FIELD CONDITIONS.
- THE CONTRACTOR SHALL VERIFY AND COORDINATE THE SIZE AND LOCATION OF ALL OPENINGS, SLEEVES AND ANCHOR BOLTS AS REQUIRED BY ALL TRADES.
- ALL DIMENSIONS, ELEVATIONS, AND OTHER REFERENCES TO EXISTING STRUCTURES, SHALL BE SUBSTANTIATED TO ANY ORDINANCES, LAWS, CODES, RULES, OR REGULATIONS BEARING ON THE WORK. THE CONTRACTOR SHALL INCLUDE IN HIS ORDINANCES, LAWS, CODES, RULES OR REGULATIONS WITH NO INCREASE IN COSTS.
- AS THE WORK PROGRESSES, THE CONTRACTOR SHALL NOTIFY THE OWNER OF ANY CONFLICTS BETWEEN THE EXISTING STRUCTURE AND THE PROPOSED ANTENNA CONSTRUCTION DOCUMENTS AND SHALL NOT PROCEED WITH SUCH WORK UNTIL THE CONFLICT IS SATISFACTORILY RESOLVED.
- THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE SAFETY CODES AND SOLELY BE RESPONSIBLE FOR PROVIDING AND MAINTAINING ADEQUATE SHORING, BRACING, AND PROTECTIVE STRUCTURES, AND FOR PUBLIC SAFETY.
- THE CONTRACTOR IS SOLELY RESPONSIBLE TO DETERMINE CONSTRUCTION PROCEDURE AND SEQUENCES AND TO ENSURE THE SAFETY OF THE EXISTING STRUCTURE AND THE SAFETY OF THE PROPOSED ANTENNA CONSTRUCTION. THE ADDITION OF WHATEVER SHORING, BRACING, UNDERPINNING, ETC THAT MAY BE NECESSARY TO PROTECT EXISTING STRUCTURES, COORDINATE WORK WITH NEAREST UTILITIES.
- THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER FOUNDATION REMEDIATION WORK IS COMPLETE. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO ENSURE THE SAFETY OF THE STRUCTURE AND ITS COMPONENT PARTS DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY BRACING, GUY'S OR TIEDOWNS, WHICH MUST BE NECESSARY.
- ALL DAMAGE CAUSED TO ANY EXISTING STRUCTURE SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR WILL BE HELD LIABLE FOR CONSTRUCTION ACTIVITIES.
- SHOP DRAWINGS, CONCRETE MIX DESIGNS, TEST REPORTS, AND OTHER SUBMITTALS PERTAINING TO STRUCTURAL WORK SHALL BE FORWARDED TO THE OWNER FOR REVIEW. THE CONTRACTOR SHALL INCLUDE ERECTION DRAWINGS AND COMPLETE DETAILS OF CONNECTIONS AS PART OF THE SUBMITTALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT ALL DRAWINGS SHALL BE CHECKED BY THE CONTRACTOR AND BEAR THE CHECKER'S INITIALS BEFORE BEING SUBMITTED FOR REVIEW.
- NO DRILLING WELDING OR TAPING ON EXISTING OWNED EQUIPMENT.
- REFER TO DRAWING T1 FOR ADDITIONAL NOTES AND REQUIREMENTS.

STRUCTURAL STEEL

- ALL STRUCTURAL STEEL IS SHAPED BY ALLOWABLE STRESS DESIGN (ASD)
- STRUCTURAL STEEL (IN DIMENSIONS) ---ASTM A992 (FY = 50 KSI)
- STRUCTURAL STEEL (OTHER SHAPES) ---ASTM A588 (FY = 36 KSI)
- STRUCTURAL RIS (RECTANGULAR SHAPES) ---ASTM A500 GRADE B, (FY = 46 KSI)
- STRUCTURAL RIS (ROUND SHAPES) ---ASTM A500 GRADE B.
- PIPE ---ASTM A32 (FY = 39 KSI)
- PIPE ---ASTM A36 (FY = 36 KSI)
- U-BOLTS ---ASTM A36
- ANCHOR BOLTS ---ASTM A305-N
- ANCHOR RODS ---ASTM A307

- CONTRACTOR TO REVIEW ALL SHOP DRAWINGS AND GUMMET COPY TO ENGINEER FOR APPROVAL. DRAWINGS MUST BEAR THE CHECKER'S INITIALS BEFORE SUBMITTING TO THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE SIZE AND TYPE OF FASTENERS AND ACCESSORIES, INCLUDING ERECTION DRAWINGS, CONNECTIONS, AND CONNECTIONS WITH MECHANICAL CONNECTIONS.
- CONNECTIONS AND DETAILS SHALL BE CHECKED AGAINST EXISTING FIELD CONDITIONS WITH THE LATEST PROVISIONS OF AISC MANUAL OF STEEL CONSTRUCTION.
- PROVIDE ALL PATES, CLIP ANGLES, GUSSET PLATES, STRAP ANCHORS, MISCELLANEOUS PLATES AND HOLES REQUIRED TO COMPLETE THE STRUCTURE. DELIVERY TO SITE.
- ALL DIMENSIONS AND DETAILS SHALL BE CHECKED AGAINST EXISTING FIELD CONDITIONS.
- THE CONTRACTOR SHALL VERIFY AND COORDINATE THE SIZE AND LOCATION OF ALL OPENINGS, SLEEVES AND ANCHOR BOLTS AS REQUIRED BY ALL TRADES.
- ALL DIMENSIONS, ELEVATIONS, AND OTHER REFERENCES TO EXISTING STRUCTURES, SHALL BE SUBSTANTIATED TO ANY ORDINANCES, LAWS, CODES, RULES, OR REGULATIONS BEARING ON THE WORK. THE CONTRACTOR SHALL INCLUDE IN HIS ORDINANCES, LAWS, CODES, RULES OR REGULATIONS WITH NO INCREASE IN COSTS.
- AS THE WORK PROGRESSES, THE CONTRACTOR SHALL NOTIFY THE OWNER OF ANY CONFLICTS BETWEEN THE EXISTING STRUCTURE AND THE PROPOSED ANTENNA CONSTRUCTION DOCUMENTS AND SHALL NOT PROCEED WITH SUCH WORK UNTIL THE CONFLICT IS SATISFACTORILY RESOLVED.
- THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE SAFETY CODES AND SOLELY BE RESPONSIBLE FOR PROVIDING AND MAINTAINING ADEQUATE SHORING, BRACING, AND PROTECTIVE STRUCTURES, AND FOR PUBLIC SAFETY.
- THE CONTRACTOR IS SOLELY RESPONSIBLE TO DETERMINE CONSTRUCTION PROCEDURE AND SEQUENCES AND TO ENSURE THE SAFETY OF THE EXISTING STRUCTURE AND THE SAFETY OF THE PROPOSED ANTENNA CONSTRUCTION. THE ADDITION OF WHATEVER SHORING, BRACING, UNDERPINNING, ETC THAT MAY BE NECESSARY TO PROTECT EXISTING STRUCTURES, COORDINATE WORK WITH NEAREST UTILITIES.
- THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER FOUNDATION REMEDIATION WORK IS COMPLETE. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO ENSURE THE SAFETY OF THE STRUCTURE AND ITS COMPONENT PARTS DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY BRACING, GUY'S OR TIEDOWNS, WHICH MUST BE NECESSARY.
- ALL DAMAGE CAUSED TO ANY EXISTING STRUCTURE SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR WILL BE HELD LIABLE FOR CONSTRUCTION ACTIVITIES.
- SHOP DRAWINGS, CONCRETE MIX DESIGNS, TEST REPORTS, AND OTHER SUBMITTALS PERTAINING TO STRUCTURAL WORK SHALL BE FORWARDED TO THE OWNER FOR REVIEW. THE CONTRACTOR SHALL INCLUDE ERECTION DRAWINGS AND COMPLETE DETAILS OF CONNECTIONS AS PART OF THE SUBMITTALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT ALL DRAWINGS SHALL BE CHECKED BY THE CONTRACTOR AND BEAR THE CHECKER'S INITIALS BEFORE BEING SUBMITTED FOR REVIEW.
- NO DRILLING WELDING OR TAPING ON EXISTING OWNED EQUIPMENT.
- REFER TO DRAWING T1 FOR ADDITIONAL NOTES AND REQUIREMENTS.

PAIN NOTES

- PAINTING SCHEDULE:**
- ANTENNA PANELS.
 - A. SHERWIN WILLIAMS POLYME-B
 - B. COLOR TO BE MATCHED WITH EXISTING TOWER STRUCTURE.
 - C. COLOR TO BE FIELD MATCHED WITH EXISTING STRUCTURE.
 - GENERAL SCHEDULE.
 - A. ONE COAT OF DTM BONDING PRIMER (2-5 MILS. DRY FILM THICKNESS)
 - B. ONE COAT OF POLYURETHANE PRIMER (2-5 MILS. DRY FILM THICKNESS)
 - C. COLOR TO BE FIELD MATCHED WITH EXISTING STRUCTURE.

EXAMINATION AND PREPARATION

- DO NOT APPLY PAINT IN SNOW, RAIN, FOG OR WET OR WHEN RELATIVE HUMIDITY EXCEEDS 85%. DO NOT APPLY PAINT TO DAMP OR WET SURFACES.
- VERIFY THAT SUBSTRATE CONDITIONS ARE READY TO RECEIVE WORK. EXAMINE SURFACES TO BE PAINTED TO DETERMINE THE NATURE AND EXTENT OF ANY DEFECTS OR CONDITIONS THAT MAY PREVENT A PROPER APPLICATION.
- TEST SHOP APPLIED PRIMER FOR COMPATIBILITY WITH SUBSEQUENT COAT MATERIALS.
- PERFORM PREPARATION AND CLEANING PROCEDURE IN STRICT ACCORDANCE WITH COATING MANUFACTURER'S INSTRUCTIONS FOR EACH SUBSTRATE CONDITION.
- CORRECT DEFECTS AND CLEAN SURFACES WHICH AFFECT WORK OF THIS SECTION. REMOVE EXISTING CORINGS THAT EXHIBIT LOOSE SURFACE DEFECTS.
- TRIS-SODIUM PHOSPHATE AND BLAZING BRUSH WITH CLEAN WATER AND ALLOW SURFACE TO DRY.
- ALUMINUM SURFACE SCHEDULED FOR PAINT FINISH REMOVE SURFACE OXIDE BY ETCH AND SOLVENT WASHING. APPLY ETCHING PRIMER IMMEDIATELY FOLLOWING CLEANING.
- FERROUS METALS: CLEAN UNCALCULATED FERROUS METAL SURFACES THAT HAVE NOT BEEN PAINTED WITH AN ANTI-RUST PRIMER. REMOVE ALL OIL, GREASE, DIRT, AND OTHER FOREIGN SUBSTANCES. USE SOLVENT OR MECHANICAL CLEANING METHODS THAT ARE APPROVED BY THE MANUFACTURER OF THE PRIMER. FOLLOW THE MANUFACTURER'S RECOMMENDATIONS. TOUCH UP BARE AREAS AND SHOP APPLIED PRIME COATS THAT ARE DAMAGED OR MISSING. TOUCH UP BARE AREAS AND SHOP APPLIED PRIME COATS THAT ARE DAMAGED OR MISSING WITH THE SAME PRIMER. USE SHOP APPLIED PRIMER TO COVER ALL DAMAGED AREAS.
- UNPAINTED SURFACES: CLEAN GALVANIZED SURFACES WITH NON-ACETONE-BASED SOLVENTS. SO SURFACE IS FREE OF OIL AND SURFACE CONTAMINANTS. REMOVE MECHANICAL METHOD. GALVANIZED SHEET METAL FABRICATED FROM COIL STOCK BY MECHANICAL METHOD.
- ANTENNA PANELS: REMOVE ALL OIL, DUST, GREASE, DIRT, AND OTHER FOREIGN MATERIAL. TO ENSURE ADEQUATE ADHESION. PANELS MUST BE WIPED WITH METHYL ETHYL KETONE (MEK).
- ALL MATERIAL TO BE PAINTED: GREASE, DIRT, AND OTHER FOREIGN MATERIAL. TO ENSURE ADEQUATE ADHESION.
- CLEANING.
 - 1. COLLECT WASTE MATERIAL, WHICH MAY CONTAIN A FINE MISTARD, PLACE IN CLOSED METAL CONTAINERS AND REMOVE ONLY FROM SITE.
 - 2. DO NOT APPLY FINISHES TO SURFACES THAT ARE NOT DRY.
 - 3. APPLY EACH COAT TO UNIFORM FINISH.
 - 4. APPLY EACH COAT OF PAINT SLIGHTLY DARKER THAN PRECEDING COAT (UNLESS OTHERWISE APPROVED).
 - 5. SAND METAL LIGHTLY BETWEEN COATS TO ACHIEVE REQUIRED FINISH.
 - 6. PROTECT CLEAN SURFACES FROM DAMAGE BY LOOSE PARTICLES. USE TACK CLOTH JUST BEFORE NEXT COAT IS APPLIED.
 - 7. ALLOW APPLIED COAT TO DRY BEFORE NEXT COAT IS APPLIED.
- COMPLETED WORK.
 - 1. SAMPLES: PREPARE 24" X 24" SAMPLE AREA FOR REVIEW.
 - 2. MATCH APPROVED SAMPLES FOR COLOR, TEXTURE AND COVERAGE. REMOVE REFINISH OR REPAINT WORK NOT IN COMPLIANCE WITH SPECIFIED REQUIREMENTS.

PROPOSED ANTENNA AND APPURTENANCE SCHEDULE

ANTENNAS		APPURTENANCES								
SECTOR	POSITION	AZIMUTH	DOWNTILT (M)	MAKE & MODEL	RAD CENTER (AEL)	TECHNOLOGY	STATUS	TMA (QTY)	DIPLEXER/TRIPLEXER (QTY)	FEDER TYPE
ALPHA	POS. 1	139°	0'	POWERWAVE (7770)	131'	UMTS 850	REMAIN	PWMA LOP 21801 (2)	PWMA LOP 21801 (2)	1# COAX (2)
	POS. 2	307°	0'	QUINTEL (OS66512-2)	131'	LTE WCS	NEW	MELIUS: DR000DF1V51-2 (2)	MELIUS: DR000DF1V51-2 (2)	FIBER AND DC POWER
	POS. 4	307°	0'	CCI (HFA-65R-BUJ-H6)	131'	LTE 700/PCS	REMAIN	ONLY (MELIUS) DIPLEXER ON TOWER. REMAINDER ON GROUND.	RRUS-32 (1)	FIBER AND DC POWER
BETA	POS. 1	281°	0'	POWERWAVE (7770)	131'	UMTS 850	REMAIN	PWMA LOP 21801 (2)	PWMA LOP 21801 (2)	1# COAX (2)
	POS. 2	150°	0'	QUINTEL (OS66512-2)	131'	LTE WCS	NEW	MELIUS: DR000DF1V51-2 (2)	MELIUS: DR000DF1V51-2 (2)	FIBER AND DC POWER
	POS. 4	150°	0'	CCI (HFA-65R-BUJ-H6)	131'	LTE 700/PCS	REMAIN	ONLY (MELIUS) DIPLEXER ON TOWER. REMAINDER ON GROUND.	RRUS-32 (1)	FIBER AND DC POWER
GAMMA	POS. 1	207°	0'	POWERWAVE (7770)	131'	UMTS 850	REMAIN	PWMA LOP 21401 (DUAL BAND - 850 BYPASS) (2)	MELIUS: DR000DF1V51-2 (2)	1# COAX (2)
	POS. 2	270°	0'	QUINTEL (OS66512-2)	131'	LTE WCS	NEW	ONLY (MELIUS) DIPLEXER ON TOWER. REMAINDER ON GROUND.	RRUS-32 (1)	FIBER AND DC POWER
	POS. 4	270°	0'	CCI (HFA-65R-BUJ-H6)	131'	LTE 700/PCS	REMAIN	RRUS-11 (1), RRUS-32 (1)	RRUS-11 (1), RRUS-32 (1)	FIBER AND DC POWER

REV	DATE	BY	CHK'D BY	DESCRIPTION
0	04/10/18	JFR	DMD	CONSTRUCTION DRAWINGS - ISSUED FOR CONSTRUCTION
1	04/10/18	JFR	DMD	CONSTRUCTION DRAWINGS - ISSUED FOR CONSTRUCTION



DATE:	03/12/18
SCALE:	AS NOTED
JOB NO.:	17024123

NOTES:	SEE ANTENNA SCHEDULE
--------	----------------------

Exhibit 3



AMERICAN TOWER®
CORPORATION

This report was prepared for American Tower Corporation by



**TOWER
ENGINEERING
PROFESSIONALS**

Structural Analysis Report

Structure : 142 ft Monopole
ATC Site Name : WSPT - South, CT
ATC Site Number : 302511
Engineering Number : OAA720395_C3_01
Proposed Carrier : AT&T Mobility
Carrier Site Name : SNET 5641-0109
Carrier Site Number : CT2103
Site Location : 20 Post Office Lane
Westport, CT 06880-6226
41.123400,-73.313100
County : Fairfield
Date : January 3, 2018
Max Usage : 92%
Result : Pass

Prepared By:
Charles Cages, E.I.
TEP

Charles Cages

Reviewed By:



01/03/2018

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	3
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 142 ft monopole to reflect the change in loading by AT&T Mobility.

Supporting Documents

Tower Drawings	SpectraSite Site #CT-0047, dated August 12, 2005
Foundation Drawing	Mapping by TEP Project #65218-72422, dated December 28, 2015
Geotechnical Report	MB&A Project #011105, dated July 17, 2001
Modifications	ATC Job #42046633, dated October 16, 2008 ATC Job #46844332/46993332, dated April 15, 2011

Analysis

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

Basic Wind Speed:	93 mph (3-Second Gust, V_{ASD}) / 120 mph (3-Second Gust, V_{ULT})
Basic Wind Speed w/ Ice:	50 mph (3-Second Gust) w/ 3/4" radial ice concurrent
Code:	ANSI/TIA-222-G / 2012 IBC / 2016 Connecticut State Building Code
Structure Class:	II
Exposure Category:	C
Topographic Category:	1
Spectral Response:	$S_s = 0.22$, $S_1 = 0.07$
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					
136.0	140.0	3	Kathrein 742-218 / AP20-1940/045D/ADT/XP	Flush	(6) 1 5/8" Coax (1) 3/8" Coax	Metro PCS
	136.0	3	RCU (Remote Control Unit)			
131.0	131.0	12	Powerwave 7020.00 Dual Band RET	Platform w/ Handrails	(12) 1 1/4" Coax (2) 0.65" 8 AWG 2C	AT&T Mobility
		12	Powerwave LGP21401			
		1	Raycap DC6-48-60-18-8F ("Squid")			
		3	Ericsson RRUS-11 (50 lbs.)			
		3	Ericsson RRUS 32 B2			
		3	Powerwave 7770.00			
120.0	120.0	2	DragonWave Horizon Compact	Platform w/ Handrails	(4) 1 1/4" Hybriflex (6) 5/16" Coax (2) 1/2" Coax (1) 2" Conduit	Clearwire
		3	NextNet BTS-2500			
		3	Argus LLPX310R			
		2	DragonWave A-ANT-18G-2-C			Sprint Nextel
		3	Alcatel-Lucent RRH2x50-08			
		3	Alcatel-Lucent 800MHz 2X50W RRH w/ Filter			
		3	Alcatel-Lucent 1900MHz 4x45 RRH			
		3	Alcatel-Lucent TD-RRH8x20-25 w/ Solar Shield			
		3	RFS APXVSP18-C-A20			
3	Commscope DT465B-2XR					
111.0	111.0	9	48" x 8" Panel	Platform w/ Handrails	(12) 7/8" Coax (1) 1/2" Coax	
100.0	100.0	6	RFS FD9R6004/1C-3L	Platform w/ Handrails	(12) 1 5/8" Coax (1) 1 5/8" Hybriflex	Verizon
		3	Alcatel-Lucent RRH2x40-AWS			
		3	Ryma MGD3-800TX			
		3	Antel BXA-171063/12CF 2 FP			
		1	RFS DB-T1-6Z-8AB-OZ			
		3	Antel BXA-70080/6CF			
90.0	90.0	4	RFS ATMAA1412D-1A20	Platform w/ Handrails	(14) 1 5/8" Coax (1) 1 1/4" Fiber	T-Mobile
		3	Ericsson RRUS 11 B12			
		4	Ericsson AIR 21, 1.3 M, B2A B4P			
		3	Ericsson AIR 21, 1.3M, B4A B2P			
		3	Andrew LNX-6515DS-VTM			
80.0	80.0	2	Diamond X50A	Stand-Offs	(2) 1/2" Coax	Senet
63.0	63.0	1	PCTEL GPS-TMG-HR-26N	Stand-Off	(1) 1/2" Coax	Sprint Nextel

Equipment to be Removed

Elevation ¹ (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
131.0	131.0	3	Powerwave 7770.00	-	(1) 0.28" RG-6	AT&T Mobility



Proposed Equipment

Elevation ¹ (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
131.0	131.0	6	Kaelus DBC0061F1V51-2	Platform w/ Handrails	(2) 0.78" 8 AWG 6 (1) 0.39" Fiber Trunk (1) 3/8" RET Control Cable (1) 2" Conduit	AT&T Mobility
		1	Raycap DC6-48-60-18-8F ("Squid")			
		3	Ericsson RRUS 32 w/ Solar Shield (52.9 lbs)			
		3	Quintel QS66512-2			

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).

Install proposed coax inside the pole shaft.

Structure Usages

Structural Component	Controlling Usage	Pass/Fail
Anchor Bolts	83%	Pass
Shaft	92%	Pass
Base Plate	64%	Pass
Flanges	38%	Pass
Reinforcement	79%	Pass

Foundations

Reaction Component	Analysis Reactions	% of Usage
Moment (Kips-Ft)	3,805.7	41%
Axial (Kips)	92.5	13%
Shear (Kips)	41.0	18%

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) (°)
131.0	Kaelus DBC0061F1V51-2	AT&T Mobility	2.068	1.798
	Raycap DC6-48-60-18-8F ("Squid")			
	Ericsson RRUS 32 w/ Solar Shield (52.9 lbs)			
	Quintel QS66512-2			
120.0	DragonWave A-ANT-18G-2-C	Clearwire	1.727	1.753

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

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

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

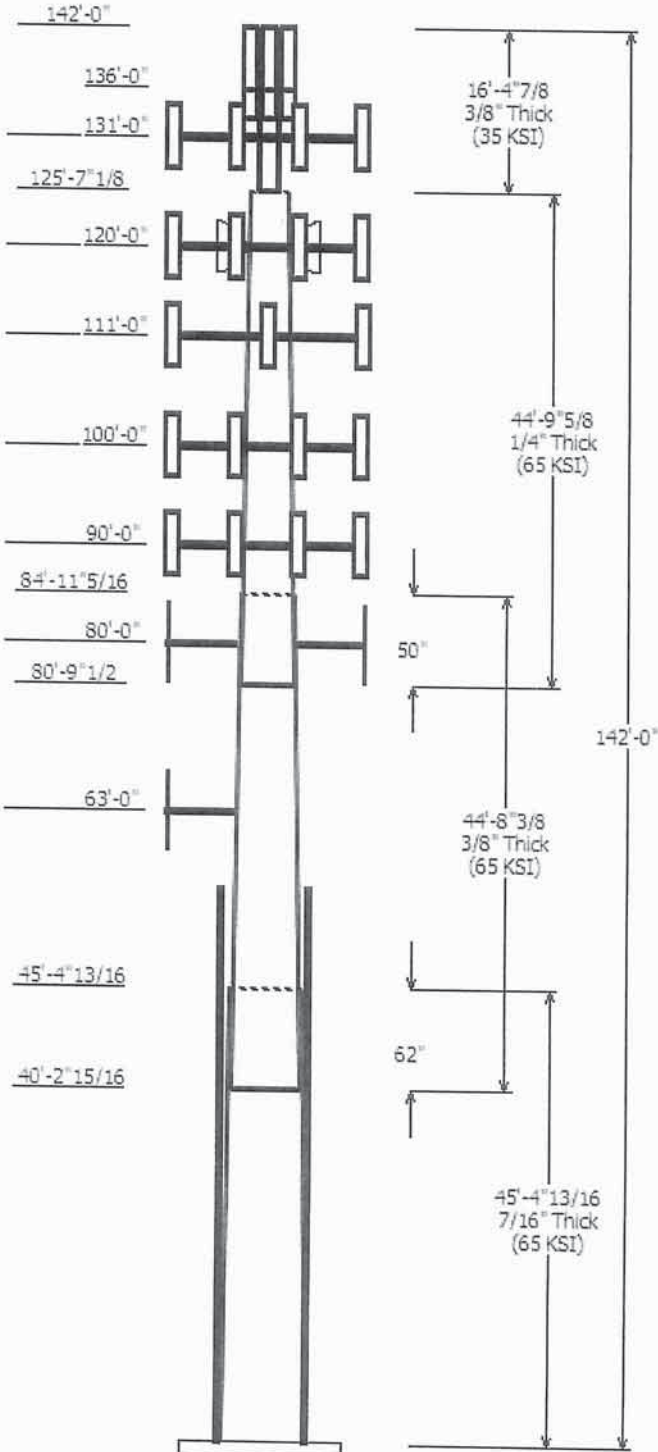
All assets of American Tower Corporation, its affiliates and subsidiaries (collectively "American Tower") are inspected at regular intervals. Based upon these inspections and in the absence of information to the contrary, American Tower assumes that all structures were constructed in accordance with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

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

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

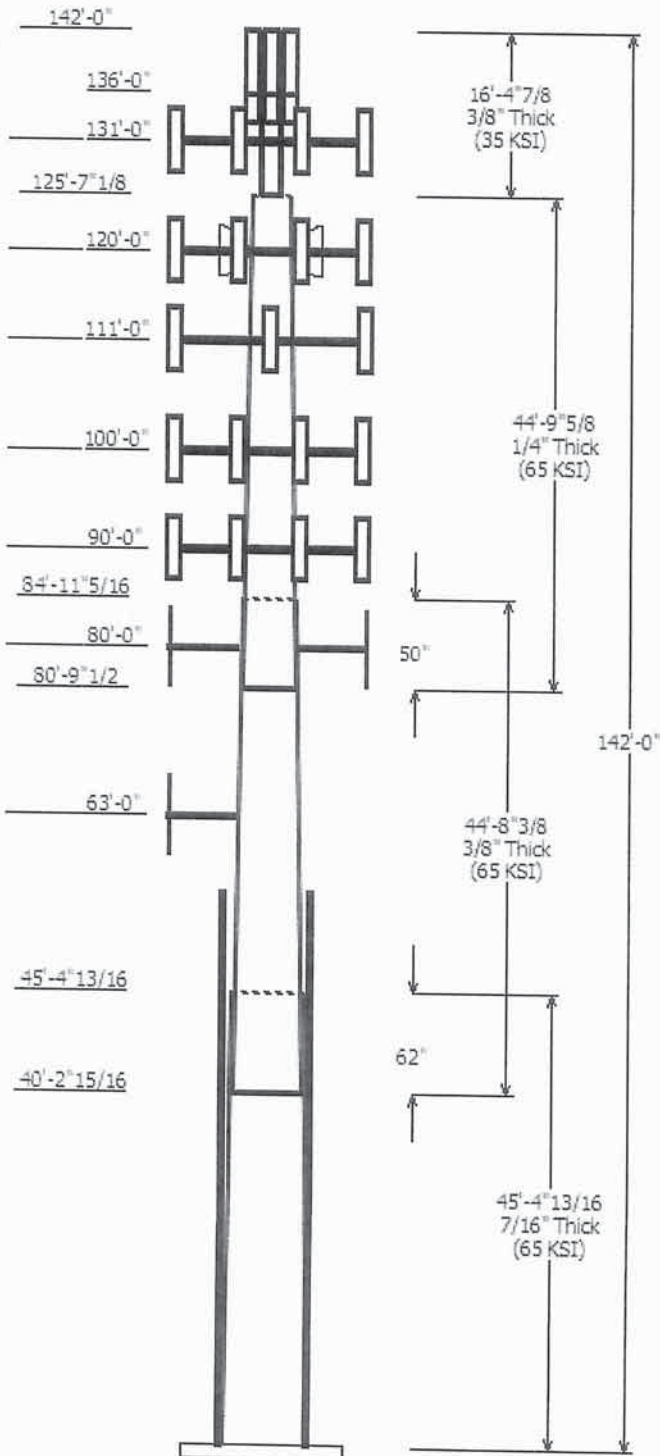
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Job Information	
Pole : 302511	Code: ANSI/TIA-222-G
Location : WSPT - South, CT	
Description : 142 ft EEI Monopole	
Client : AT&T MOBILITY	Struct Class : II
Shape : 12 Sides	Exposure : C
Height : 142.00 (ft)	Topo : 1
Base Elev (ft): 0.00	
Taper: 0.21263%/in/ft	



Sections Properties							
Shaft Section	Length (ft)	Diameter (in)		Thick Joint (in)	Type	Overlap Length (in)	Steel Grade (ksi)
		Across Top	Flats Bottom				
1	45.400	35.34	45.00	0.438		0.000	12 Sides 65
2	44.700	27.68	37.19	0.375	Slip Joint	61.875	12 Sides 65
3	44.800	19.54	29.07	0.250	Slip Joint	49.813	12 Sides 65
4	16.407	10.75	10.75	0.375	Butt Joint	0.000	Round 35

Discrete Appurtenance				
Attach Elev (ft)	Force Elev (ft)	Qty	Description	
136.000	136.000	3	RCU (Remote Control Unit)	
136.000	140.000	3	Kathrein Scala 742-218 / AP20-	
131.000	131.000	3	Quintel QS66512-2	
131.000	131.000	3	Ericsson RRUS 32 w/ Solar Shie	
131.000	131.000	1	Raycap DC6-48-60-18-8F	
131.000	131.000	6	Kaelus DBC0061F1V51-2	
131.000	131.000	3	Ericsson RRUS 32 B2	
131.000	131.000	3	CCI HPA-65R-BUU-H6	
131.000	131.000	12	Powerwave Allgon LGP21401	
131.000	131.000	1	Raycap DC6-48-60-18-8F	
131.000	131.000	3	Ericsson RRUS-11 (50 lbs.)	
131.000	131.000	12	Powerwave Allgon 7020.00	
131.000	131.000	3	Powerwave Allgon 7770.00	
131.000	131.000	1	Flat Platform w/ Handrails	
120.000	120.000	3	Commscope DT465B-2XR	
120.000	120.000	3	Alcatel-Lucent RRH2x50-08	
120.000	120.000	3	Alcatel-Lucent TD-RRH8x20-25	
120.000	120.000	3	Alcatel-Lucent 800 MHz 2X50W	
120.000	120.000	3	Alcatel-Lucent 1900 MHz 4x45	
120.000	120.000	3	RFS APXVSP18-C-A20	
120.000	120.000	3	Argus LLPX310R	
120.000	120.000	2	DragonWave Horizon Compact	
120.000	120.000	2	DragonWave A-ANT-18G-2-C	
120.000	120.000	3	NextNet BTS-2500	
120.000	120.000	1	Flat Platform w/ Handrails	
111.000	111.000	1	Flat Platform w/ Handrails	
111.000	111.000	9	48" x 8" Panel	
100.000	100.000	3	Antel BXA-171063/12CF_2 FP	
100.000	100.000	3	Antel BXA-70080/6CF_	
100.000	100.000	1	RFS DB-T1-6Z-8AB-0Z	
100.000	100.000	3	Alcatel-Lucent RRH2x40-AWS	
100.000	100.000	6	RFS FD9R6004/1C-3L	
100.000	100.000	3	Powerwave Allgon P65-16-XL-	
100.000	100.000	3	Ryma MGD3-800TX	
100.000	100.000	1	Flat Platform w/ Handrails	
90.000	90.000	3	Andrew LNX-6515DS-VTM	
90.000	90.000	3	Ericsson RRUS 11 B12	
90.000	90.000	3	Ericsson AIR 21, 1.3M, B4A B2P	
90.000	90.000	4	Ericsson AIR 21, 1.3 M, B2A B4	
90.000	90.000	4	RFS ATMAA1412D-1A20	
90.000	90.000	1	Flat Platform w/ Handrails	
80.000	80.000	2	Stand-Offs	
80.000	80.000	2	Diamond X50A	
63.000	63.000	1	Stand-Off	



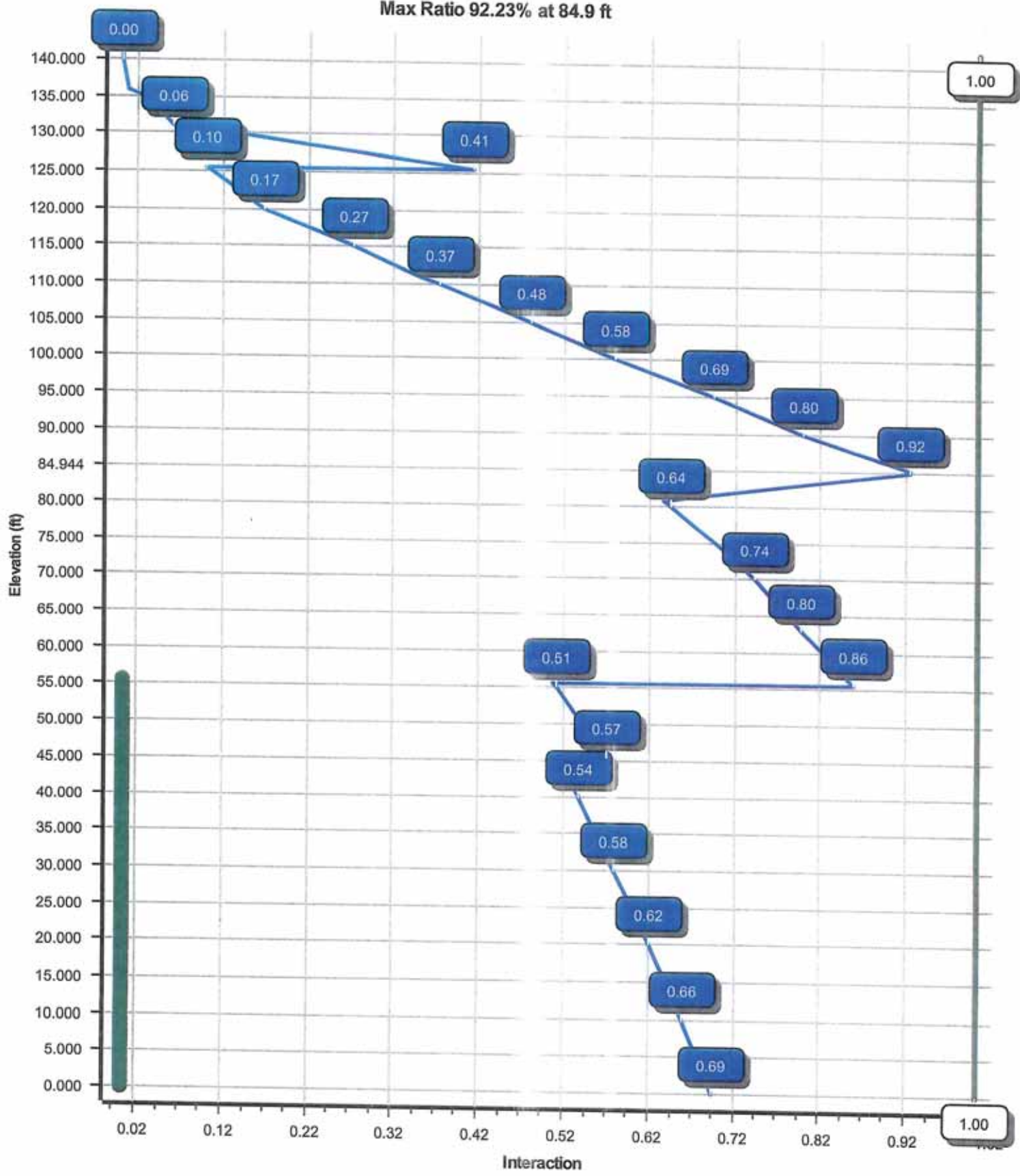
Linear Appurtenance			
Elev (ft)		Description	Exposed To Wind
From	To		
0.000	63.000	1/2" Coax	No
0.000	63.000	DYWIDAG	Yes
0.000	80.000	1/2" Coax	Yes
0.000	90.000	1 1/4" Fiber	No
0.000	90.000	1 5/8" Coax	Yes
0.000	100.0	1 5/8" Coax	No
0.000	100.0	1 5/8" Hybriflex	No
0.000	111.0	1/2" Coax	No
0.000	111.0	7/8" Coax	No
0.000	120.0	1 1/4" Hybriflex	No
0.000	120.0	1/2" Coax	Yes
0.000	120.0	2" Conduit	Yes
0.000	120.0	5/16" Coax	Yes
0.000	131.0	0.39" Fiber Trunk	No
0.000	131.0	0.65" 8 AWG 2C	No
0.000	131.0	0.78" 8 AWG 6	No
0.000	131.0	1 1/4" Coax	No
0.000	131.0	2" Conduit	No
0.000	131.0	3/8" RET Control	No
0.000	136.0	1 5/8" Coax	Yes
0.000	136.0	3/8" Coax	Yes

Load Cases	
1.2D + 1.6W	93 mph with No Ice
0.9D + 1.6W	93 mph with No Ice (Reduced DL)
1.2D + 1.0Di + 1.0Wi	50 mph with 0.75 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	3805.66	41.02	56.10
0.9D + 1.6W	3676.42	39.38	42.06
1.2D + 1.0Di + 1.0Wi	984.72	9.92	92.47
(1.2 + 0.2Sds) * DL + E ELFM	207.50	1.93	55.91
(1.2 + 0.2Sds) * DL + E EMAM	171.41	2.00	55.91
(0.9 - 0.2Sds) * DL + E ELFM	204.37	1.92	38.23
(0.9 - 0.2Sds) * DL + E EMAM	168.63	2.00	38.23
1.0D + 1.0W	961.69	10.25	46.82

Dish Deflections			
Load Case	Attach Elev (ft)	Deflection (in)	Rotation (deg)
1.0D + 1.0W	120.00	20.720	1.753

Load Case : 1.2D + 1.6W
Max Ratio 92.23% at 84.9 ft



Site Number: 302511

Code: ANSI/TIA-222-G

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Site Name: WSPT - South, CT

Engineering Number: OAA720395_C3_01

1/3/2018 11:03:38 AM

Customer: AT&T MOBILITY

Analysis Parameters

Location :	FAIRFIELD County, CT	Height (ft) :	142
Code :	ANSI/TIA-222-G	Base Diameter (in) :	45.00
Shape :	12 Sides. Sect 4: Round	Top Diameter (in) :	10.75
Pole Type :	Custom	Taper (in/ft) :	0.213
Pole Manufacturer :	EEL	Rotation (deg) :	0.00

Ice & Wind Parameters

Structure Class:	II	Design Wind Speed Without Ice:	93 mph
Exposure Category:	C	Design Wind Speed With Ice:	50 mph
Topographic Category:	1	Operational Wind Speed:	60 mph
Crest Height:	0 ft	Design Ice Thickness:	0.75 in

Seismic Parameters

Analysis Method:	Equivalent Modal Analysis & Equivalent Lateral Force Methods		
Site Class:	D - Stiff Soil		
Period Based on Rayleigh Method (sec):	2.23		
T _L (sec):	6	p:	1.3
S _s :	0.221	S ₁ :	0.066
F _a :	1.600	F _v :	2.400
S _{ds} :	0.236	S _{d1} :	0.106
		C _s :	0.032
		C _s Max:	0.032
		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	50 mph with 0.75 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: 302511

Code: ANSI/TIA-222-G

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Site Name: WSPT - South, CT

Engineering Number: OAA720395_C3_01

1/3/2018 11:03:38 AM

Customer: AT&T MOBILITY

Shaft Section Properties

Sect Info	Length (ft)	Thick (in)	Fy (ksi)	Slip		Weight (lb)	Bottom				Top				Taper (in/ft)				
				Joint Type	Joint Len (in)		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
1-12	45.400	0.4375	65		0.00	8,648	45.00	0.00	62.78	15912.1	25.42	102.86	35.34	45.40	49.18	7649.3	19.50	80.79	0.212638
2-12	44.700	0.3750	65	Slip	61.88	5,889	37.19	40.24	44.46	7692.0	24.43	99.18	27.68	84.94	32.98	3140.3	17.64	73.83	0.212638
3-12	44.800	0.2500	65	Slip	49.81	2,952	29.07	80.79	23.20	2459.7	29.01	116.28	19.54	125.59	15.53	738.0	18.80	78.18	0.212638
4-R	16.407	0.3750	35	Butt	0.00	682	10.75	125.59	12.22	164.6	0.00	28.67	10.75	142.00	12.22	164.6	0.00	28.67	0.000000
Shaft Weight						18,172													

Discrete Appurtenance Properties

Attach Elev (ft)	Description	Qty	No Ice			Ice			Distance From Face (ft)	Vert Ecc (ft)
			Weight (lb)	EPAA (sf)	Orientation Factor	Weight (lb)	EPAA (sf)	Orientation Factor		
136.00	Kathrein Scala 742-218 /	3	22.50	3.850	0.63	110.51	4.762	0.63	0.000	4.000
136.00	RCU (Remote Control Unit)	3	1.00	0.160	0.50	11.01	0.359	0.50	0.000	0.000
131.00	CCI HPA-65R-BUU-H6	3	51.00	9.660	0.69	295.12	11.006	0.69	0.000	0.000
131.00	Ericsson RRUS 32 B2	3	53.00	2.740	0.67	139.60	3.463	0.67	0.000	0.000
131.00	Ericsson RRUS 32 w/ Solar	3	52.90	2.740	0.67	0.00	0.000	0.67	0.000	0.000
131.00	Ericsson RRUS-11 (50 lbs.)	3	50.00	2.570	0.67	129.98	3.205	0.67	0.000	0.000
131.00	Flat Platform w/ Handrails	1	2000.00	42.400	1.00	3,404.39	63.124	1.00	0.000	0.000
131.00	Kaelus DBC0061F1V51-2	6	25.50	0.510	0.50	0.00	0.000	0.50	0.000	0.000
131.00	Powerwave Allgon 7020.00	12	2.20	0.400	0.50	17.61	0.619	0.50	0.000	0.000
131.00	Powerwave Allgon 7770.00	3	35.00	5.510	0.65	167.80	6.544	0.65	0.000	0.000
131.00	Powerwave Allgon LGP21401	12	14.10	1.100	0.50	47.10	1.556	0.50	0.000	0.000
131.00	Quintel QS66512-2	3	111.00	8.130	0.74	0.00	0.000	0.74	0.000	0.000
131.00	Raycap DC6-48-60-18-8F	1	31.80	1.280	1.00	123.18	2.843	1.00	0.000	0.000
131.00	Raycap DC6-48-60-18-8F	1	31.80	1.280	1.00	0.00	0.000	1.00	0.000	0.000
120.00	Alcatel-Lucent 1900 MHz	3	60.00	2.320	0.67	152.37	2.975	0.67	0.000	0.000
120.00	Alcatel-Lucent 800 MHz	3	64.00	2.060	0.67	152.13	2.640	0.67	0.000	0.000
120.00	Alcatel-Lucent RRH2x50-08	3	52.90	1.700	0.50	122.29	2.235	0.50	0.000	0.000
120.00	Alcatel-Lucent TD-RRH8x20-	3	70.00	4.050	0.67	159.37	5.675	0.67	0.000	0.000
120.00	Argus LLPX310R	3	28.60	4.290	0.63	133.23	5.166	0.63	0.000	0.000
120.00	Commscope DT465B-2XR	3	58.00	9.100	0.69	281.63	10.403	0.69	0.000	0.000
120.00	DragonWave A-ANT-18G-2-C	2	27.10	4.690	1.00	122.53	5.936	1.00	0.000	0.000
120.00	DragonWave Horizon	2	10.60	0.430	0.50	39.85	0.653	0.50	0.000	0.000
120.00	Flat Platform w/ Handrails	1	2000.00	42.400	1.00	3,389.73	62.908	1.00	0.000	0.000
120.00	NextNet BTS-2500	3	35.00	1.820	0.50	91.05	2.383	0.50	0.000	0.000
120.00	RFS APXVSP18-C-A20	3	57.00	8.020	0.69	250.96	9.281	0.69	0.000	0.000
111.00	48" x 8" Panel	9	20.00	3.610	0.73	148.46	6.020	0.73	0.000	0.000
111.00	Flat Platform w/ Handrails	1	2000.00	42.400	1.00	3,381.22	62.783	1.00	0.000	0.000
100.00	Alcatel-Lucent RRH2x40-AWS	3	44.00	2.160	0.67	113.66	2.774	0.67	0.000	0.000
100.00	Antel BXA-171063/12CF_2	3	15.00	4.790	0.72	128.79	5.957	0.72	0.000	0.000
100.00	Antel BXA-70080/6CF	3	18.00	5.840	0.72	161.39	7.030	0.72	0.000	0.000
100.00	Flat Platform w/ Handrails	1	2000.00	42.400	1.00	3,364.04	62.529	1.00	0.000	0.000
100.00	Powerwave Allgon P65-16-	3	33.00	8.130	0.65	205.57	9.371	0.65	0.000	0.000
100.00	RFS DB-T1-6Z-8AB-0Z	1	44.00	4.800	0.67	175.07	5.634	0.67	0.000	0.000
100.00	RFS FD9R6004/1C-3L	6	3.10	0.370	0.50	15.39	0.568	0.50	0.000	0.000
100.00	Ryma MGD3-800TX	3	15.40	3.340	0.69	97.74	4.235	0.69	0.000	0.000
90.00	Andrew LNX-6515DS-VTM	3	51.30	11.430	0.70	298.51	13.005	0.70	0.000	0.000
90.00	Ericsson AIR 21, 1.3 M, B2A	4	83.00	6.050	0.71	241.54	7.087	0.71	0.000	0.000
90.00	Ericsson AIR 21, 1.3M, B4A	3	81.50	6.090	0.70	240.00	7.132	0.70	0.000	0.000
90.00	Ericsson RRUS 11 B12	3	50.70	2.790	0.67	131.59	3.431	0.67	0.000	0.000
90.00	Flat Platform w/ Handrails	1	2000.00	42.400	1.00	3,349.36	62.312	1.00	0.000	0.000
90.00	RFS ATMAA1412D-1A20	4	13.00	1.000	0.50	45.68	1.407	0.50	0.000	0.000
80.00	Diamond X50A	2	2.30	1.120	1.00	56.95	2.427	1.00	0.000	0.000
80.00	Stand-Offs	2	50.00	3.000	1.00	72.87	4.470	1.00	0.000	0.000
63.00	PCTEL GPS-TMG-HR-26N	1	0.60	0.090	1.00	9.79	0.255	1.00	0.000	0.000
63.00	Stand-Off	1	30.00	1.000	1.00	43.41	1.479	1.00	0.000	0.000

Site Number: 302511

Code: ANSI/TIA-222-G

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Site Name: WSPT - South, CT

Engineering Number: OAA720395_C3_01

1/3/2018 11:03:39 AM

Customer: AT&T MOBILITY

Totals 143 14581.80

31,901.48

Number of Loadings : 45

Linear Appurtenance Properties

Elev From (ft)	Elev To (ft)	Qty	Description	Coax Diameter (in)	Coax Weight (lb/ft)	Flat	Projected Width (in)	Exposed To Wind	Carrier
0.00	136.00	6	1 5/8" Coax	1.98	0.82	N	1.98	Y	Metro PCS
0.00	136.00	1	3/8" Coax	0.44	0.08	N	0.44	Y	Metro PCS
0.00	131.00	1	0.39" Fiber Trunk	0.39	0.06	N	0.00	N	AT&T Mobility
0.00	131.00	2	0.65" 8 AWG 2C	0.65	0.31	N	0.00	N	AT&T Mobility
0.00	131.00	2	0.78" 8 AWG 6	0.78	0.59	N	0.00	N	AT&T Mobility
0.00	131.00	12	1 1/4" Coax	1.55	0.63	N	0.00	N	AT&T Mobility
0.00	131.00	1	2" Conduit	2.38	3.65	N	0.00	N	AT&T Mobility
0.00	131.00	1	3/8" RET Control Cable	0.38	0.23	N	0.00	N	AT&T Mobility
0.00	120.00	4	1 1/4" Hybriflex	1.54	1.00	N	0.00	N	Sprint Nextel
0.00	120.00	2	1/2" Coax	0.63	0.15	N	0.00	Y	Clearwire
0.00	120.00	1	2" Conduit	2.38	3.65	N	2.38	Y	Clearwire
0.00	120.00	6	5/16" Coax	0.31	0.05	N	0.00	Y	Clearwire
0.00	111.00	1	1/2" Coax	0.63	0.15	N	0.00	N	Sprint Nextel
0.00	111.00	12	7/8" Coax	1.09	0.33	N	0.00	N	Sprint Nextel
0.00	100.00	12	1 5/8" Coax	1.98	0.82	N	0.00	N	Verizon
0.00	100.00	1	1 5/8" Hybriflex	1.98	1.30	N	0.00	N	Verizon
0.00	90.00	1	1 1/4" Fiber	1.25	1.05	N	1.25	N	T-Mobile
0.00	90.00	14	1 5/8" Coax	1.98	0.82	N	1.54	Y	T-Mobile
0.00	80.00	2	1/2" Coax	0.63	0.15	N	0.00	Y	Senet, Inc.
0.00	63.00	1	1/2" Coax	0.63	0.15	N	0.00	N	Sprint Nextel
0.00	63.00	4	DYWIDAG	4.00	16.70	N	1.62	Y	--

Additional Steel

Elev From (ft)	Elev To (ft)	Qty	Description	Fy (ksi)	Offset (in)	— Intermediate Connections—			Connectors	Continuation?
					Description	Spacing (in)	Len (in)			
0.00	55.68	4	SOL #20 All Thread	80	2.19	6" Angle Bracket	30.0	3.31	5/8" A36 U-Bolt	Yes

Site Number: 302511

Code: ANSI/TIA-222-G

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Site Name: WSPT - South, CT

Engineering Number: OAA720395_C3_01

1/3/2018 11:03:39 AM

Customer: AT&T MOBILITY

Segment Properties (Max Len : 5. ft)

Seg Top Elev (ft)	Description	Thick (in)	Flat Dia (in)	Area (in ²)	Ix (in ⁴)	W/t Ratio	D/t Ratio	F'y (ksi)	S (in ³)	Z (in ³)	Weight (lb)	Additional Reinforcing		
												Area (in ²)	Ix (in ⁴)	Weight (lb)
0.00		0.4375	45.000	62.777	15,912.1	25.42	102.86	77.0	683.1	0.0	0.0	19.64	6,615	0.0
5.00		0.4375	43.937	61.280	14,800.2	24.77	100.43	77.7	650.7	0.0	1,055.3	19.64	6,347	334.0
10.00		0.4375	42.874	59.782	13,741.3	24.11	98.00	78.4	619.2	0.0	1,029.9	19.64	6,084	334.0
15.00		0.4375	41.810	58.284	12,734.1	23.46	95.57	79.1	588.4	0.0	1,004.4	19.64	5,827	334.0
20.00		0.4375	40.747	56.786	11,777.4	22.81	93.14	79.8	558.4	0.0	978.9	19.64	5,576	334.0
25.00		0.4375	39.684	55.289	10,869.9	22.16	90.71	80.5	529.2	0.0	953.4	19.64	5,330	334.0
30.00		0.4375	38.621	53.791	10,010.2	21.51	88.28	81.3	500.7	0.0	927.9	19.64	5,090	334.0
35.00		0.4375	37.558	52.293	9,197.1	20.86	85.85	81.9	473.1	0.0	902.4	19.64	4,855	334.0
40.00		0.4375	36.494	50.795	8,429.2	20.21	83.42	81.9	446.2	0.0	877.0	19.64	4,626	334.0
40.24	Bot - Section 2	0.4375	36.443	50.722	8,392.9	20.18	83.30	81.9	444.9	0.0	42.1	19.64	4,615	16.3
45.00		0.4375	35.431	49.297	7,705.4	19.56	80.99	81.9	420.1	0.0	1,519.0	19.64	4,559	317.7
45.40	Top - Section 1	0.3750	36.096	43.133	7,025.1	23.65	96.26	78.9	376.0	0.0	125.8	19.64	4,541	26.7
50.00		0.3750	35.118	41.952	6,463.7	22.95	93.65	79.7	355.6	0.0	665.9	19.64	4,337	307.3
55.00		0.3750	34.055	40.668	5,888.2	22.19	90.81	80.5	334.0	0.0	702.9	19.64	4,121	334.0
55.68	Reinf. Top	0.3750	33.911	40.495	5,813.1	22.09	90.43	80.6	331.2	0.0	93.5	19.64	4,092	45.2
60.00		0.3750	32.992	39.385	5,348.0	21.43	87.98	81.3	313.2	0.0	587.5			
63.00		0.3750	32.354	38.614	5,040.3	20.97	86.28	81.8	301.0	0.0	398.1			
65.00		0.3750	31.929	38.101	4,841.9	20.67	85.14	81.9	293.0	0.0	261.0			
70.00		0.3750	30.865	36.817	4,368.8	19.91	82.31	81.9	273.4	0.0	637.3			
75.00		0.3750	29.802	35.533	3,927.5	19.15	79.47	81.9	254.6	0.0	615.5			
80.00		0.3750	28.739	34.249	3,517.0	18.39	76.64	81.9	236.4	0.0	593.6			
80.79	Bot - Section 3	0.3750	28.570	34.046	3,454.7	18.27	76.19	81.9	233.6	0.0	92.1			
84.94	Top - Section 2	0.2500	28.188	22.490	2,240.5	28.07	112.75	74.1	153.6	0.0	796.1			
85.00		0.2500	28.176	22.480	2,237.7	28.06	112.70	74.1	153.4	0.0	4.3			
90.00		0.2500	27.113	21.624	1,991.7	26.92	108.45	75.4	141.9	0.0	375.2			
95.00		0.2500	26.049	20.768	1,764.4	25.78	104.20	76.6	130.9	0.0	360.6			
100.0		0.2500	24.986	19.913	1,555.2	24.64	99.94	77.8	120.2	0.0	346.1			
105.0		0.2500	23.923	19.057	1,363.1	23.50	95.69	79.1	110.1	0.0	331.5			
110.0		0.2500	22.860	18.201	1,187.6	22.36	91.44	80.3	100.4	0.0	316.9			
111.0		0.2500	22.647	18.030	1,154.4	22.13	90.59	80.6	98.5	0.0	61.6			
115.0		0.2500	21.797	17.345	1,027.8	21.22	87.19	81.6	91.1	0.0	240.7			
120.0		0.2500	20.733	16.489	883.1	20.08	82.93	81.9	82.3	0.0	287.8			
125.0		0.2500	19.670	15.633	752.6	18.94	78.68	81.9	73.9	0.0	273.3			
125.5	Top - Section 3	0.2500	19.544	15.532	738.0	18.80	78.18	81.9	72.9	0.0	31.4			
125.5	Bot - Section 4	0.3750	10.750	12.223	164.6	0.00	28.67	35.0	30.6	40.4				
130.0		0.3750	10.750	12.223	164.6	0.00	28.67	35.0	30.6	40.4	183.3			
131.0		0.3750	10.750	12.223	164.6	0.00	28.67	35.0	30.6	40.4	41.6			
135.0		0.3750	10.750	12.223	164.6	0.00	28.67	35.0	30.6	40.4	166.4			
136.0		0.3750	10.750	12.223	164.6	0.00	28.67	35.0	30.6	40.4	41.6			
140.0		0.3750	10.750	12.223	164.6	0.00	28.67	35.0	30.6	40.4	166.4			
142.0		0.3750	10.750	12.223	164.6	0.00	28.67	35.0	30.6	40.4	83.2			
											18,171.7			
												3,719.2		

Site Number: 302511
 Site Name: WSPT - South, CT
 Customer: AT&T MOBILITY

Code: ANSI/TIA-222-G
 Engineering Number: OAA720395_C3_01

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1/3/2018 11:03:39 AM

Load Case: 1.2D + 1.6W	93 mph with No Ice	25 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		367.8	0.0					0.0	0.0	367.8	0.0	0.0	0.0
5.00		730.6	1,266.4					0.0	1,130.3	730.6	2,396.7	0.0	0.0
10.00		720.5	1,235.8					0.0	1,130.3	720.5	2,366.1	0.0	0.0
15.00		721.5	1,205.3					0.0	1,130.3	721.5	2,335.5	0.0	0.0
20.00		741.9	1,174.7					0.0	1,130.3	741.9	2,304.9	0.0	0.0
25.00		766.8	1,144.1					0.0	1,130.3	766.8	2,274.3	0.0	0.0
30.00		753.2	1,113.5					0.0	1,130.3	753.2	2,243.8	0.0	0.0
35.00		729.8	1,082.9					147.2	1,130.3	877.0	2,213.2	0.0	0.0
40.00		383.0	1,052.4					151.7	1,130.3	534.7	2,182.6	0.0	0.0
40.24	Bot - Section 2	371.4	50.5					7.5	55.1	378.9	105.6	0.0	0.0
45.00		383.3	1,822.8					148.2	1,075.2	531.5	2,898.0	0.0	0.0
45.40	Top - Section 1	369.6	151.0					12.6	90.4	382.2	241.4	0.0	0.0
50.00		706.1	799.1					146.8	1,039.8	852.9	1,838.9	0.0	0.0
55.00		415.5	843.4					162.8	1,130.3	578.3	1,973.7	0.0	0.0
55.68	Reinf. Top	361.8	112.2					22.3	153.0	384.1	265.2	0.0	0.0
60.00		527.1	705.0					143.7	630.7	670.8	1,335.7	0.0	0.0
63.00	Appurtenance(s)	365.0	477.7	46.3	0.0	0.0	36.7	101.0	437.7	512.3	952.1	0.0	0.0
65.00		525.8	313.3					0.0	131.1	525.8	444.4	0.0	0.0
70.00		719.1	764.8					0.0	327.8	719.1	1,092.5	0.0	0.0
75.00		680.2	738.6					138.8	327.8	819.0	1,066.3	0.0	0.0
80.00	Appurtenance(s)	389.0	712.4	368.4	0.0	0.0	125.5	140.8	327.8	898.1	1,165.6	0.0	0.0
80.79	Bot - Section 3	329.7	110.5					22.5	51.7	352.2	162.2	0.0	0.0
84.94	Top - Section 2	280.8	955.3					118.5	270.6	399.3	1,225.9	0.0	0.0
85.00		329.7	5.2					1.6	3.7	331.3	8.8	0.0	0.0
90.00	Appurtenance(s)	649.2	450.2	4,059.6	0.0	0.0	3,521.4	144.4	326.0	4,853.1	4,297.6	0.0	0.0
95.00		642.6	432.8					0.0	250.8	642.6	683.5	0.0	0.0
100.00	Appurtenance(s)	634.5	415.3	3,898.1	0.0	0.0	2,926.6	0.0	250.8	4,532.6	3,592.6	0.0	0.0
105.00		625.9	397.8					0.0	183.9	625.9	581.8	0.0	0.0
110.00		367.1	380.3					0.0	183.9	367.1	564.3	0.0	0.0
111.00	Appurtenance(s)	277.6	74.0	2,882.7	0.0	0.0	2,616.0	23.0	36.8	3,183.2	2,726.8	0.0	0.0
115.00		488.0	288.9					92.3	127.4	580.3	416.3	0.0	0.0
120.00	Appurtenance(s)	489.9	345.4	4,824.2	0.0	0.0	4,022.3	116.3	159.3	5,430.4	4,527.0	0.0	0.0
125.00		249.2	327.9					0.0	109.8	249.2	437.7	0.0	0.0
125.59	Top - Section 3	142.9	37.7					0.0	13.0	142.9	50.7	0.0	0.0
130.00		143.5	220.0					52.6	96.8	196.1	316.7	0.0	0.0
131.00	Appurtenance(s)	133.6	49.9	5,006.3	0.0	0.0	4,165.1	12.0	22.0	5,151.9	4,236.9	0.0	0.0
135.00		133.8	199.6					48.2	24.0	182.0	223.6	0.0	0.0
136.00	Appurtenance(s)	80.7	49.9	378.0	0.0	1,463.8	84.6	12.1	6.0	470.8	140.5	0.0	0.0
140.00		81.0	199.6					0.0	0.0	81.0	199.6	0.0	0.0
142.00		27.1	99.8					0.0	0.0	27.1	99.8	0.0	0.0
Totals:										41,266.1	56,189.1	0.00	0.00

Site Number: 302511
 Site Name: WSPT - South, CT
 Customer: AT&T MOBILITY

Code: ANSI/TIA-222-G
 Engineering Number: OAA720395_C3_01

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1/3/2018 11:03:46 AM

Load Case: 1.2D + 1.6W

93 mph with No Ice

25 Iterations

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

Wind Importance 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	-56.10	-41.02	0.00	-3,805.66	0.00	3,805.66	4,350.13	2,175.06	7,987.32	3,944.64	0.00	0.00	0.692
5.00	-53.54	-40.50	0.00	-3,600.59	0.00	3,600.59	4,285.51	2,142.75	7,679.11	3,792.42	0.13	-0.23	0.674
10.00	-51.02	-39.98	0.00	-3,398.09	0.00	3,398.09	4,218.97	2,109.49	7,373.27	3,641.38	0.50	-0.47	0.656
15.00	-48.53	-39.43	0.00	-3,198.22	0.00	3,198.22	4,150.52	2,075.26	7,070.06	3,491.64	1.12	-0.71	0.637
20.00	-46.07	-38.85	0.00	-3,001.07	0.00	3,001.07	4,080.16	2,040.08	6,769.73	3,343.32	1.99	-0.94	0.618
25.00	-43.65	-38.22	0.00	-2,806.84	0.00	2,806.84	4,007.88	2,003.94	6,472.54	3,196.54	3.10	-1.18	0.598
30.00	-41.27	-37.59	0.00	-2,615.74	0.00	2,615.74	3,933.69	1,966.85	6,178.73	3,051.44	4.47	-1.42	0.576
35.00	-38.93	-36.81	0.00	-2,427.81	0.00	2,427.81	3,854.52	1,927.26	5,883.88	2,905.83	6.08	-1.66	0.555
40.00	-36.69	-36.29	0.00	-2,243.74	0.00	2,243.74	3,744.12	1,872.06	5,549.75	2,740.81	7.95	-1.89	0.536
40.24	-36.52	-35.98	0.00	-2,234.90	0.00	2,234.90	3,738.74	1,869.37	5,533.71	2,732.89	8.04	-1.91	0.535
45.00	-33.57	-35.42	0.00	-2,063.76	0.00	2,063.76	3,633.72	1,816.86	5,225.39	2,580.62	10.06	-2.13	0.509
45.40	-33.27	-35.10	0.00	-2,049.59	0.00	2,049.59	3,633.72	1,816.86	5,225.39	2,580.62	10.06	-2.13	0.509
50.00	-31.33	-34.30	0.00	-1,888.15	0.00	1,888.15	3,063.79	1,531.89	4,506.32	2,225.50	10.24	-2.15	0.567
55.00	-29.31	-33.70	0.00	-1,716.67	0.00	1,716.67	3,008.67	1,504.34	4,302.82	2,125.00	12.41	-2.36	0.539
55.68	-28.99	-33.36	0.00	-1,693.86	0.00	1,693.86	2,946.93	1,473.46	4,084.17	2,017.02	15.01	-2.60	0.508
55.68	-28.99	-33.36	0.00	-1,693.86	0.00	1,693.86	2,938.42	1,469.21	4,054.78	2,002.51	15.38	-2.63	0.504
60.00	-27.56	-32.74	0.00	-1,549.62	0.00	1,549.62	2,938.42	1,469.21	4,054.78	2,002.51	15.38	-2.63	0.856
63.00	-26.53	-32.27	0.00	-1,451.41	0.00	1,451.41	2,883.27	1,441.64	3,868.42	1,910.47	17.86	-2.83	0.821
65.00	-25.96	-31.84	0.00	-1,386.88	0.00	1,386.88	2,844.16	1,422.08	3,740.46	1,847.27	19.71	-3.07	0.796
70.00	-24.70	-31.23	0.00	-1,227.66	0.00	1,227.66	2,808.42	1,404.21	3,643.77	1,799.52	21.03	-3.23	0.780
75.00	-23.50	-30.49	0.00	-1,071.53	0.00	1,071.53	2,713.79	1,356.89	3,400.96	1,679.61	24.62	-3.61	0.741
80.00	-22.30	-29.59	0.00	-919.09	0.00	919.09	2,619.16	1,309.58	3,166.52	1,563.83	28.61	-3.99	0.695
80.79	-22.07	-29.29	0.00	-895.63	0.00	895.63	2,524.53	1,262.26	2,940.46	1,452.18	32.98	-4.35	0.642
84.94	-20.81	-28.85	0.00	-774.04	0.00	774.04	2,509.53	1,254.76	2,905.39	1,434.86	33.71	-4.41	0.634
85.00	-20.71	-28.60	0.00	-772.42	0.00	772.42	1,499.90	749.95	1,728.05	853.42	37.66	-4.69	0.922
90.00	-16.67	-23.52	0.00	-629.41	0.00	629.41	1,499.54	749.77	1,726.89	852.85	37.72	-4.70	0.921
95.00	-15.90	-22.93	0.00	-511.80	0.00	511.80	1,466.64	733.32	1,624.12	802.09	42.88	-5.14	0.797
100.00	-12.67	-18.13	0.00	-397.17	0.00	397.17	1,431.82	715.91	1,522.23	751.77	48.48	-5.55	0.693
105.00	-12.07	-17.51	0.00	-306.51	0.00	306.51	1,395.09	697.54	1,421.47	702.01	54.49	-5.92	0.576
110.00	-11.50	-17.12	0.00	-218.95	0.00	218.95	1,356.44	678.22	1,322.10	652.93	60.85	-6.24	0.479
111.00	-9.13	-13.66	0.00	-201.83	0.00	201.83	1,315.88	657.94	1,224.36	604.67	67.52	-6.51	0.372
115.00	-8.74	-13.06	0.00	-147.19	0.00	147.19	1,307.54	653.77	1,205.03	595.12	68.89	-6.56	0.347
120.00	-4.88	-7.14	0.00	-81.88	0.00	81.88	1,273.40	636.70	1,128.51	557.33	74.46	-6.74	0.271
125.00	-4.47	-6.85	0.00	-46.16	0.00	46.16	1,215.41	607.71	1,023.37	505.40	81.59	-6.89	0.166
125.59	-4.43	-6.70	0.00	-42.10	0.00	42.10	1,152.33	576.16	919.28	454.00	88.85	-7.00	0.106
125.59	-4.43	-6.70	0.00	-42.10	0.00	42.10	1,144.85	572.43	907.31	448.09	89.71	-7.01	0.098
130.00	-4.14	-6.47	0.00	-12.56	0.00	12.56	385.02	192.51	160.54	106.00	89.71	-7.01	0.410
131.00	-0.56	-0.84	0.00	-6.09	0.00	6.09	385.02	192.51	160.54	106.00	96.19	-7.05	0.130
135.00	-0.37	-0.63	0.00	-2.75	0.00	2.75	385.02	192.51	160.54	106.00	97.67	-7.07	0.059
136.00	-0.28	-0.14	0.00	-0.65	0.00	0.65	385.02	192.51	160.54	106.00	103.59	-7.10	0.027
140.00	-0.10	-0.04	0.00	-0.08	0.00	0.08	385.02	192.51	160.54	106.00	105.07	-7.10	0.007
142.00	0.00	-0.03	0.00	0.00	0.00	0.00	385.02	192.51	160.54	106.00	111.01	-7.11	0.001
											113.98	-7.11	0.000

Site Number: 302511

Code: ANSI/TIA-222-G

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Site Name: WSPT - South, CT

Engineering Number: OAA720395_C3_01

1/3/2018 11:03:47 AM

Customer: AT&T MOBILITY

Load Case: 0.9D + 1.6W	93 mph with No Ice (Reduced DL)	25 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		301.8	0.0					0.0	0.0	301.8	0.0	0.0	0.0
5.00		596.4	949.8					0.0	847.7	596.4	1,797.5	0.0	0.0
10.00		582.0	926.9					0.0	847.7	582.0	1,774.6	0.0	0.0
15.00		576.4	903.9					0.0	847.7	576.4	1,751.6	0.0	0.0
20.00		585.9	881.0					0.0	847.7	585.9	1,728.7	0.0	0.0
25.00		598.4	858.1					0.0	847.7	598.4	1,705.8	0.0	0.0
30.00		666.1	835.1					0.0	847.7	666.1	1,682.8	0.0	0.0
35.00		729.8	812.2					147.2	847.7	877.0	1,659.9	0.0	0.0
40.00		383.0	789.3					151.7	847.7	534.7	1,637.0	0.0	0.0
40.24	Bot - Section 2	371.4	37.9					7.5	41.3	378.9	79.2	0.0	0.0
45.00		383.3	1,367.1					148.2	806.4	531.5	2,173.5	0.0	0.0
45.40	Top - Section 1	369.6	113.2					12.6	67.8	382.2	181.0	0.0	0.0
50.00		706.1	599.3					146.8	779.9	852.9	1,379.2	0.0	0.0
55.00		415.5	632.6					162.8	847.7	578.3	1,480.3	0.0	0.0
55.68	Reinf. Top	361.8	84.1					22.3	114.8	384.1	198.9	0.0	0.0
60.00		527.1	528.8					143.7	473.0	670.8	1,001.8	0.0	0.0
63.00	Appurtenance(s)	332.9	358.3	46.3	0.0	0.0	27.5	101.0	328.3	480.2	714.1	0.0	0.0
65.00		410.4	234.9					0.0	98.3	410.4	333.3	0.0	0.0
70.00		635.9	573.6					0.0	245.8	635.9	819.4	0.0	0.0
75.00		680.2	553.9					138.8	245.8	819.0	799.7	0.0	0.0
80.00	Appurtenance(s)	389.0	534.3	368.4	0.0	0.0	94.1	140.8	245.8	898.1	874.2	0.0	0.0
80.79	Bot - Section 3	329.7	82.9					22.5	38.8	352.2	121.7	0.0	0.0
84.94	Top - Section 2	280.8	716.5					118.5	203.0	399.3	919.4	0.0	0.0
85.00		329.7	3.9					1.6	2.7	331.3	6.6	0.0	0.0
90.00	Appurtenance(s)	590.2	337.7	4,059.6	0.0	0.0	2,641.0	144.4	244.5	4,794.1	3,223.2	0.0	0.0
95.00		520.7	324.6					0.0	188.1	520.7	512.7	0.0	0.0
100.00	Appurtenance(s)	504.9	311.5	3,898.1	0.0	0.0	2,194.9	0.0	188.1	4,403.0	2,694.5	0.0	0.0
105.00		488.4	298.4					0.0	138.0	488.4	436.3	0.0	0.0
110.00		296.4	285.3					0.0	138.0	296.4	423.2	0.0	0.0
111.00	Appurtenance(s)	277.6	55.5	2,882.7	0.0	0.0	1,962.0	23.0	27.6	3,183.2	2,045.1	0.0	0.0
115.00		488.0	216.7					92.3	95.6	580.3	312.2	0.0	0.0
120.00	Appurtenance(s)	479.8	259.0	4,824.2	0.0	0.0	3,016.7	116.3	119.5	5,420.4	3,395.2	0.0	0.0
125.00		237.7	245.9					0.0	82.3	237.7	328.3	0.0	0.0
125.59	Top - Section 3	141.5	28.3					0.0	9.8	141.5	38.0	0.0	0.0
130.00		143.5	165.0					52.6	72.6	196.1	237.6	0.0	0.0
131.00	Appurtenance(s)	133.6	37.4	5,006.3	0.0	0.0	3,123.8	12.0	16.5	5,151.9	3,177.7	0.0	0.0
135.00		133.8	149.7					48.2	18.0	182.0	167.7	0.0	0.0
136.00	Appurtenance(s)	80.7	37.4	378.0	0.0	1,463.8	63.4	12.1	4.5	470.8	105.4	0.0	0.0
140.00		81.0	149.7					0.0	0.0	81.0	149.7	0.0	0.0
142.00		27.1	74.9					0.0	0.0	27.1	74.9	0.0	0.0
Totals:										39,598.3	42,141.8	0.00	0.00

Site Number: 302511
 Site Name: WSPT - South, CT
 Customer: AT&T MOBILITY

Code: ANSI/TIA-222-G
 Engineering Number: OAA720395_C3_01

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1/3/2018 11:03:54 AM

Load Case: 0.9D + 1.6W

93 mph with No Ice (Reduced DL)

25 Iterations

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

Wind Importance 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	-42.06	-39.38	0.00	-3,676.42	0.00	3,676.42	4,350.13	2,175.06	7,987.32	3,944.64	0.00	0.00	0.666
5.00	-40.11	-38.94	0.00	-3,479.52	0.00	3,479.52	4,285.51	2,142.75	7,679.11	3,792.42	0.12	-0.23	0.650
10.00	-38.19	-38.50	0.00	-3,284.82	0.00	3,284.82	4,218.97	2,109.49	7,373.27	3,641.38	0.48	-0.45	0.632
15.00	-36.29	-38.05	0.00	-3,092.32	0.00	3,092.32	4,150.52	2,075.26	7,070.06	3,491.64	1.08	-0.68	0.614
20.00	-34.42	-37.58	0.00	-2,902.06	0.00	2,902.06	4,080.16	2,040.08	6,769.73	3,343.32	1.92	-0.91	0.596
25.00	-32.58	-37.08	0.00	-2,714.16	0.00	2,714.16	4,007.88	2,003.94	6,472.54	3,196.54	3.00	-1.14	0.576
30.00	-30.76	-36.50	0.00	-2,528.75	0.00	2,528.75	3,933.69	1,966.85	6,178.73	3,051.44	4.32	-1.37	0.555
35.00	-28.98	-35.70	0.00	-2,346.23	0.00	2,346.23	3,854.52	1,927.26	5,883.88	2,905.83	5.88	-1.60	0.534
40.00	-27.29	-35.17	0.00	-2,167.74	0.00	2,167.74	3,744.12	1,872.06	5,549.75	2,740.81	7.68	-1.83	0.516
40.24	-27.15	-34.85	0.00	-2,159.16	0.00	2,159.16	3,738.74	1,869.37	5,533.71	2,732.89	7.78	-1.84	0.515
45.00	-24.93	-34.29	0.00	-1,993.43	0.00	1,993.43	3,633.72	1,816.86	5,225.39	2,580.62	9.72	-2.06	0.491
45.40	-24.70	-33.95	0.00	-1,979.71	0.00	1,979.71	3,063.79	1,531.89	4,506.32	2,225.50	9.89	-2.08	0.546
50.00	-23.22	-33.14	0.00	-1,823.53	0.00	1,823.53	3,008.67	1,504.34	4,302.82	2,125.00	12.00	-2.28	0.519
55.00	-21.70	-32.54	0.00	-1,657.86	0.00	1,657.86	2,946.93	1,473.46	4,084.17	2,017.02	14.51	-2.51	0.489
55.68	-21.45	-32.19	0.00	-1,635.83	0.00	1,635.83	2,938.42	1,469.21	4,054.78	2,002.51	14.87	-2.54	0.485
55.68	-21.45	-32.19	0.00	-1,635.83	0.00	1,635.83	2,938.42	1,469.21	4,054.78	2,002.51	14.87	-2.54	0.825
60.00	-20.36	-31.55	0.00	-1,496.65	0.00	1,496.65	2,883.27	1,441.64	3,868.42	1,910.47	17.26	-2.74	0.791
63.00	-19.57	-31.10	0.00	-1,401.99	0.00	1,401.99	2,844.16	1,422.08	3,740.46	1,847.27	19.05	-2.97	0.766
65.00	-19.12	-30.77	0.00	-1,339.78	0.00	1,339.78	2,808.42	1,404.21	3,643.77	1,799.52	20.33	-3.12	0.752
70.00	-18.14	-30.20	0.00	-1,185.96	0.00	1,185.96	2,713.79	1,356.89	3,400.96	1,679.61	23.80	-3.49	0.713
75.00	-17.21	-29.44	0.00	-1,034.95	0.00	1,034.95	2,619.16	1,309.58	3,166.52	1,563.83	27.65	-3.85	0.669
80.00	-16.31	-28.54	0.00	-887.76	0.00	887.76	2,524.53	1,262.26	2,940.46	1,452.18	31.87	-4.20	0.618
80.79	-16.13	-28.23	0.00	-865.14	0.00	865.14	2,509.53	1,254.76	2,905.39	1,434.86	32.58	-4.26	0.610
84.94	-15.18	-27.79	0.00	-747.97	0.00	747.97	1,499.90	749.95	1,728.05	853.42	36.40	-4.53	0.888
85.00	-15.09	-27.52	0.00	-746.40	0.00	746.40	1,499.54	749.77	1,726.89	852.85	36.45	-4.54	0.887
90.00	-12.11	-22.57	0.00	-608.79	0.00	608.79	1,466.64	733.32	1,624.12	802.09	41.44	-4.97	0.768
95.00	-11.50	-22.08	0.00	-495.97	0.00	495.97	1,431.82	715.91	1,522.23	751.77	46.85	-5.36	0.669
100.00	-9.15	-17.49	0.00	-385.59	0.00	385.59	1,395.09	697.54	1,421.47	702.01	52.66	-5.72	0.556
105.00	-8.68	-17.00	0.00	-298.16	0.00	298.16	1,356.44	678.22	1,322.10	652.93	58.81	-6.03	0.464
110.00	-8.24	-16.68	0.00	-213.16	0.00	213.16	1,315.88	657.94	1,224.36	604.67	65.27	-6.30	0.359
111.00	-6.54	-13.31	0.00	-196.48	0.00	196.48	1,307.54	653.77	1,205.03	595.12	66.59	-6.35	0.336
115.00	-6.25	-12.71	0.00	-143.26	0.00	143.26	1,273.40	636.70	1,128.51	557.33	71.97	-6.52	0.262
120.00	-3.49	-6.94	0.00	-79.71	0.00	79.71	1,215.41	607.71	1,023.37	505.40	78.87	-6.67	0.161
125.00	-3.19	-6.67	0.00	-44.98	0.00	44.98	1,152.33	576.16	919.28	454.00	85.90	-6.77	0.102
125.59	-3.16	-6.53	0.00	-41.03	0.00	41.03	1,144.85	572.43	907.31	448.09	86.74	-6.78	0.094
125.59	-3.16	-6.53	0.00	-41.03	0.00	41.03	385.02	192.51	160.54	106.00	86.74	-6.78	0.396
130.00	-2.95	-6.31	0.00	-12.25	0.00	12.25	385.02	192.51	160.54	106.00	93.01	-6.82	0.124
131.00	-0.40	-0.81	0.00	-5.94	0.00	5.94	385.02	192.51	160.54	106.00	94.43	-6.84	0.057
135.00	-0.26	-0.61	0.00	-2.69	0.00	2.69	385.02	192.51	160.54	106.00	100.16	-6.87	0.026
136.00	-0.21	-0.13	0.00	-0.61	0.00	0.61	385.02	192.51	160.54	106.00	101.60	-6.87	0.006
140.00	-0.07	-0.04	0.00	-0.07	0.00	0.07	385.02	192.51	160.54	106.00	107.35	-6.88	0.001
142.00	0.00	-0.03	0.00	0.00	0.00	0.00	385.02	192.51	160.54	106.00	110.22	-6.88	0.000

Site Number: 302511

Code: ANSI/TIA-222-G

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Site Name: WSPT - South, CT

Engineering Number: OAA720395_C3_01

1/3/2018 11:03:54 AM

Customer: AT&T MOBILITY

Load Case: 1.2D + 1.0Di + 1.0Wi	50 mph with 0.75 in Radial Ice	24 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)	Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Torsion MY (lb-ft)	Moment MZ (lb)
0.00		68.7	0.0					0.0	0.0	68.7	0.0	0.0	0.0
5.00		136.3	1,604.9					0.0	1,541.8	136.3	3,146.7	0.0	0.0
10.00		133.7	1,605.8					0.0	1,590.8	133.7	3,196.6	0.0	0.0
15.00		133.0	1,585.8					0.0	1,616.2	133.0	3,202.0	0.0	0.0
20.00		135.6	1,558.9					0.0	1,633.9	135.6	3,192.8	0.0	0.0
25.00		138.9	1,528.5					0.0	1,647.6	138.9	3,176.1	0.0	0.0
30.00		141.0	1,495.8					0.0	1,658.9	141.0	3,154.8	0.0	0.0
35.00		142.1	1,461.6					76.6	1,668.6	218.7	3,130.2	0.0	0.0
40.00		74.7	1,426.2					79.7	1,677.1	154.4	3,103.3	0.0	0.0
40.24	Bot - Section 2	72.5	68.9					4.0	82.0	76.5	150.8	0.0	0.0
45.00		74.9	2,180.2					78.6	1,602.6	153.4	3,782.9	0.0	0.0
45.40	Top - Section 1	72.4	181.1					6.7	135.1	79.1	316.2	0.0	0.0
50.00		138.6	1,139.0					78.4	1,556.3	216.9	2,695.3	0.0	0.0
55.00		81.7	1,205.7					87.5	1,697.6	169.1	2,903.3	0.0	0.0
55.68	Reinf. Top	71.3	161.3					12.0	230.3	83.4	391.6	0.0	0.0
60.00		104.1	1,012.0					77.7	1,126.5	181.8	2,138.5	0.0	0.0
63.00	Appurtenance(s)	70.5	688.2	13.3	0.0	0.0	39.3	54.8	784.1	138.7	1,511.6	0.0	0.0
65.00		97.7	452.4					0.0	306.2	97.7	758.6	0.0	0.0
70.00		138.1	1,103.4					0.0	768.3	138.1	1,871.7	0.0	0.0
75.00		135.8	1,068.6					76.4	772.0	212.3	1,840.5	0.0	0.0
80.00	Appurtenance(s)	77.9	1,033.4	111.4	0.0	0.0	380.6	77.9	775.5	267.2	2,189.4	0.0	0.0
80.79	Bot - Section 3	66.2	161.3					12.5	119.0	78.6	280.4	0.0	0.0
84.94	Top - Section 2	56.4	1,218.8					65.8	624.6	122.2	1,843.4	0.0	0.0
85.00		66.4	8.7					0.9	8.5	67.3	17.2	0.0	0.0
90.00	Appurtenance(s)	129.9	758.0	963.7	0.0	0.0	6,645.5	80.5	755.0	1,174.1	8,158.4	0.0	0.0
95.00		126.9	730.8					0.0	463.5	126.9	1,194.4	0.0	0.0
100.00	Appurtenance(s)	123.6	703.5	949.2	0.0	0.0	5,790.6	0.0	465.0	1,072.9	6,959.1	0.0	0.0
105.00		120.3	676.0					0.0	399.6	120.3	1,075.6	0.0	0.0
110.00		70.9	648.3					0.0	401.0	70.9	1,049.3	0.0	0.0
111.00	Appurtenance(s)	57.5	127.3	799.9	0.0	0.0	4,703.4	12.9	80.4	870.3	4,911.0	0.0	0.0
115.00		101.5	495.1					52.0	302.2	153.5	797.3	0.0	0.0
120.00	Appurtenance(s)	109.4	592.4	1,164.5	0.0	0.0	7,829.4	65.8	378.9	1,339.7	8,800.8	0.0	0.0
125.00		60.0	564.3					0.0	237.4	60.0	801.6	0.0	0.0
125.59	Top - Section 3	34.1	65.6					0.0	28.2	34.1	93.8	0.0	0.0
130.00		34.2	335.2					36.5	209.8	70.7	545.0	0.0	0.0
131.00	Appurtenance(s)	31.9	76.1	1,222.4	0.0	0.0	8,595.4	8.3	47.7	1,262.6	8,719.2	0.0	0.0
135.00		31.9	304.7					33.5	127.1	65.4	431.8	0.0	0.0
136.00	Appurtenance(s)	32.2	76.2	86.6	0.0	327.1	378.7	8.4	31.8	127.2	486.7	0.0	0.0
140.00		38.7	305.1					0.0	0.0	38.7	305.1	0.0	0.0
142.00		12.9	152.7					0.0	0.0	12.9	152.7	0.0	0.0
Totals:										9,942.85	92,475.6	0.00	0.00

Site Number: 302511
 Site Name: WSPT - South, CT
 Customer: AT&T MOBILITY

Code: ANSI/TIA-222-G
 Engineering Number: OAA720395_C3_01

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1/3/2018 11:04:01 AM

Load Case: 1.2D + 1.0Di + 1.0Wi

50 mph with 0.75 in Radial Ice

24 Iterations

Gust Response Factor :1.10
 Dead Load Factor :1.20
 Wind Load Factor :1.00

Ice Dead Load Factor :1.00

Wind Importance Factor :1.00
 Ice Importance 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	-92.47	-9.92	0.00	-984.72	0.00	984.72	4,350.13	2,175.06	7,987.32	3,944.64	0.00	0.00	0.193
5.00	-89.31	-9.88	0.00	-935.10	0.00	935.10	4,285.51	2,142.75	7,679.11	3,792.42	0.03	-0.06	0.188
10.00	-86.11	-9.83	0.00	-885.70	0.00	885.70	4,218.97	2,109.49	7,373.27	3,641.38	0.13	-0.12	0.184
15.00	-82.89	-9.78	0.00	-836.53	0.00	836.53	4,150.52	2,075.26	7,070.06	3,491.64	0.29	-0.18	0.179
20.00	-79.69	-9.72	0.00	-787.62	0.00	787.62	4,080.16	2,040.08	6,769.73	3,343.32	0.52	-0.25	0.174
25.00	-76.51	-9.65	0.00	-739.01	0.00	739.01	4,007.88	2,003.94	6,472.54	3,196.54	0.81	-0.31	0.169
30.00	-73.34	-9.57	0.00	-690.76	0.00	690.76	3,933.69	1,966.85	6,178.73	3,051.44	1.16	-0.37	0.164
35.00	-70.20	-9.41	0.00	-642.90	0.00	642.90	3,854.52	1,927.26	5,883.88	2,905.83	1.59	-0.43	0.158
40.00	-67.10	-9.27	0.00	-595.86	0.00	595.86	3,744.12	1,872.06	5,549.75	2,740.81	2.08	-0.50	0.153
40.24	-66.94	-9.23	0.00	-593.60	0.00	593.60	3,738.74	1,869.37	5,533.71	2,732.89	2.10	-0.50	0.153
45.00	-63.15	-9.07	0.00	-549.72	0.00	549.72	3,633.72	1,816.86	5,225.39	2,580.62	2.63	-0.56	0.146
45.40	-62.83	-9.02	0.00	-546.10	0.00	546.10	3,063.79	1,531.89	4,506.32	2,225.50	2.68	-0.56	0.163
50.00	-60.13	-8.84	0.00	-504.58	0.00	504.58	3,008.67	1,504.34	4,302.82	2,125.00	3.25	-0.62	0.156
55.00	-57.22	-8.68	0.00	-460.37	0.00	460.37	2,946.93	1,473.46	4,084.17	2,017.02	3.93	-0.68	0.147
55.68	-56.83	-8.62	0.00	-454.50	0.00	454.50	2,938.42	1,469.21	4,054.78	2,002.51	4.03	-0.69	0.146
55.68	-56.83	-8.62	0.00	-454.50	0.00	454.50	2,938.42	1,469.21	4,054.78	2,002.51	4.03	-0.69	0.246
60.00	-54.68	-8.47	0.00	-417.24	0.00	417.24	2,883.27	1,441.64	3,868.42	1,910.47	4.68	-0.75	0.237
63.00	-53.17	-8.36	0.00	-391.84	0.00	391.84	2,844.16	1,422.08	3,740.46	1,847.27	5.17	-0.81	0.231
65.00	-52.40	-8.32	0.00	-375.12	0.00	375.12	2,808.42	1,404.21	3,643.77	1,799.52	5.52	-0.86	0.227
70.00	-50.52	-8.24	0.00	-333.53	0.00	333.53	2,713.79	1,356.89	3,400.96	1,679.61	6.48	-0.96	0.217
75.00	-48.66	-8.08	0.00	-292.33	0.00	292.33	2,619.16	1,309.58	3,166.52	1,563.83	7.54	-1.06	0.206
80.00	-46.47	-7.82	0.00	-251.93	0.00	251.93	2,524.53	1,262.26	2,940.46	1,452.18	8.70	-1.16	0.192
80.79	-46.19	-7.77	0.00	-245.73	0.00	245.73	2,509.53	1,254.76	2,905.39	1,434.86	8.90	-1.18	0.190
84.94	-44.34	-7.64	0.00	-213.47	0.00	213.47	1,499.90	749.95	1,728.05	853.42	9.95	-1.25	0.280
85.00	-44.32	-7.62	0.00	-213.04	0.00	213.04	1,499.54	749.77	1,726.89	852.85	9.97	-1.26	0.279
90.00	-36.18	-6.34	0.00	-174.93	0.00	174.93	1,466.64	733.32	1,624.12	802.09	11.35	-1.38	0.243
95.00	-34.97	-6.25	0.00	-143.25	0.00	143.25	1,431.82	715.91	1,522.23	751.77	12.86	-1.49	0.215
100.00	-28.04	-5.03	0.00	-112.03	0.00	112.03	1,395.09	697.54	1,421.47	702.01	14.48	-1.60	0.180
105.00	-26.96	-4.92	0.00	-86.87	0.00	86.87	1,356.44	678.22	1,322.10	652.93	16.20	-1.69	0.153
110.00	-25.91	-4.84	0.00	-62.27	0.00	62.27	1,315.88	657.94	1,224.36	604.67	18.01	-1.76	0.123
111.00	-21.02	-3.83	0.00	-57.43	0.00	57.43	1,307.54	653.77	1,205.03	595.12	18.38	-1.78	0.113
115.00	-20.23	-3.67	0.00	-42.11	0.00	42.11	1,273.40	636.70	1,128.51	557.33	19.89	-1.83	0.091
120.00	-11.47	-2.05	0.00	-23.78	0.00	23.78	1,215.41	607.71	1,023.37	505.40	21.83	-1.87	0.057
125.00	-10.67	-1.97	0.00	-13.53	0.00	13.53	1,152.33	576.16	919.28	454.00	23.81	-1.90	0.039
125.59	-10.58	-1.93	0.00	-12.36	0.00	12.36	1,144.85	572.43	907.31	448.09	24.04	-1.91	0.037
125.59	-10.58	-1.93	0.00	-12.36	0.00	12.36	385.02	192.51	160.54	106.00	24.04	-1.91	0.144
130.00	-10.04	-1.84	0.00	-3.85	0.00	3.85	385.02	192.51	160.54	106.00	25.81	-1.92	0.062
131.00	-1.37	-0.29	0.00	-2.00	0.00	2.00	385.02	192.51	160.54	106.00	26.21	-1.92	0.022
135.00	-0.94	-0.21	0.00	-0.84	0.00	0.84	385.02	192.51	160.54	106.00	27.83	-1.93	0.010
136.00	-0.46	-0.07	0.00	-0.30	0.00	0.30	385.02	192.51	160.54	106.00	28.23	-1.94	0.004
140.00	-0.15	-0.02	0.00	-0.04	0.00	0.04	385.02	192.51	160.54	106.00	29.86	-1.94	0.001
142.00	0.00	-0.01	0.00	0.00	0.00	0.00	385.02	192.51	160.54	106.00	30.67	-1.94	0.000

Site Number: 302511
 Site Name: WSPT - South, CT
 Customer: AT&T MOBILITY

Code: ANSI/TIA-222-G
 Engineering Number: OAA720395_C3_01

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Load Case: 1.0D + 1.0W	Serviceability 60 mph	24 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		78.5	0.0					0.0	0.0	78.5	0.0	0.0	0.0
5.00		155.1	1,055.3					0.0	941.9	155.1	1,997.2	0.0	0.0
10.00		151.4	1,029.9					0.0	941.9	151.4	1,971.7	0.0	0.0
15.00		149.9	1,004.4					0.0	941.9	149.9	1,946.3	0.0	0.0
20.00		152.4	978.9					0.0	941.9	152.4	1,920.8	0.0	0.0
25.00		155.7	953.4					0.0	941.9	155.7	1,895.3	0.0	0.0
30.00		173.3	927.9					0.0	941.9	173.3	1,869.8	0.0	0.0
35.00		189.9	902.4					38.3	941.9	228.1	1,844.3	0.0	0.0
40.00		99.6	877.0					39.5	941.9	139.1	1,818.8	0.0	0.0
40.24	Bot - Section 2	96.6	42.1					2.0	45.9	98.6	88.0	0.0	0.0
45.00		99.7	1,519.0					38.6	896.0	138.3	2,415.0	0.0	0.0
45.40	Top - Section 1	96.1	125.8					3.3	75.4	99.4	201.1	0.0	0.0
50.00		183.7	665.9					38.2	866.5	221.9	1,532.4	0.0	0.0
55.00		108.1	702.9					42.4	941.9	150.4	1,644.7	0.0	0.0
55.68	Reinf. Top	94.1	93.5					5.8	127.5	99.9	221.0	0.0	0.0
60.00		137.1	587.5					37.4	525.6	174.5	1,113.1	0.0	0.0
63.00	Appurtenance(s)	86.6	398.1	12.1	0.0	0.0	30.6	26.3	364.7	124.9	793.4	0.0	0.0
65.00		106.8	261.0					0.0	109.3	106.8	370.3	0.0	0.0
70.00		165.4	637.3					0.0	273.1	165.4	910.5	0.0	0.0
75.00		176.9	615.5					36.1	273.1	213.1	888.6	0.0	0.0
80.00	Appurtenance(s)	101.2	593.6	95.8	0.0	0.0	104.6	36.6	273.1	233.6	971.4	0.0	0.0
80.79	Bot - Section 3	85.8	92.1					5.9	43.1	91.6	135.2	0.0	0.0
84.94	Top - Section 2	73.0	796.1					30.8	225.5	103.9	1,021.6	0.0	0.0
85.00		85.8	4.3					0.4	3.1	86.2	7.4	0.0	0.0
90.00	Appurtenance(s)	153.5	375.2	1,056.1	0.0	0.0	2,934.5	37.6	271.6	1,247.2	3,581.3	0.0	0.0
95.00		135.5	360.6					0.0	209.0	135.5	569.6	0.0	0.0
100.00	Appurtenance(s)	131.4	346.1	1,014.1	0.0	0.0	2,438.8	0.0	209.0	1,145.4	2,993.9	0.0	0.0
105.00		127.1	331.5					0.0	153.3	127.1	484.8	0.0	0.0
110.00		77.1	316.9					0.0	153.3	77.1	470.2	0.0	0.0
111.00	Appurtenance(s)	72.2	61.6	749.9	0.0	0.0	2,180.0	6.0	30.7	828.1	2,272.3	0.0	0.0
115.00		126.9	240.7					24.0	106.2	151.0	346.9	0.0	0.0
120.00	Appurtenance(s)	124.8	287.8	1,255.0	0.0	0.0	3,351.9	30.3	132.7	1,410.1	3,772.5	0.0	0.0
125.00		61.8	273.3					0.0	91.5	61.8	364.8	0.0	0.0
125.59	Top - Section 3	36.8	31.4					0.0	10.8	36.8	42.3	0.0	0.0
130.00		37.3	183.3					13.7	80.6	51.0	264.0	0.0	0.0
131.00	Appurtenance(s)	34.8	41.6	1,302.4	0.0	0.0	3,470.9	3.1	18.3	1,340.2	3,530.8	0.0	0.0
135.00		34.8	166.4					12.5	20.0	47.3	186.4	0.0	0.0
136.00	Appurtenance(s)	21.3	41.6	98.3	0.0	380.8	70.5	3.1	5.0	122.8	117.1	0.0	0.0
140.00		21.5	166.4					0.0	0.0	21.5	166.4	0.0	0.0
142.00		7.2	83.2					0.0	0.0	7.2	83.2	0.0	0.0
Totals:										10,302.2	46,824.2	0.00	0.00

Site Number: 302511

Code: ANSI/TIA-222-G

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Site Name: WSPT - South, CT

Engineering Number: OAA720395_C3_01

1/3/2018 11:04:08 AM

Customer: AT&T MOBILITY

Load Case: 1.0D + 1.0W

Serviceability 60 mph

24 Iterations

Gust Response Factor :1.10

Dead Load Factor :1.00

Wind Load Factor :1.00

Wind Importance 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	-46.82	-10.25	0.00	-961.69	0.00	961.69	4,350.13	2,175.06	7,987.32	3,944.64	0.00	0.00	0.180
5.00	-44.81	-10.14	0.00	-910.45	0.00	910.45	4,285.51	2,142.75	7,679.11	3,792.42	0.03	-0.06	0.176
10.00	-42.83	-10.03	0.00	-859.76	0.00	859.76	4,218.97	2,109.49	7,373.27	3,641.38	0.13	-0.12	0.171
15.00	-40.87	-9.92	0.00	-809.61	0.00	809.61	4,150.52	2,075.26	7,070.06	3,491.64	0.28	-0.18	0.166
20.00	-38.94	-9.80	0.00	-760.03	0.00	760.03	4,080.16	2,040.08	6,769.73	3,343.32	0.50	-0.24	0.161
25.00	-37.04	-9.67	0.00	-711.04	0.00	711.04	4,007.88	2,003.94	6,472.54	3,196.54	0.78	-0.30	0.156
30.00	-35.16	-9.53	0.00	-662.68	0.00	662.68	3,933.69	1,966.85	6,178.73	3,051.44	1.13	-0.36	0.151
35.00	-33.31	-9.32	0.00	-615.06	0.00	615.06	3,854.52	1,927.26	5,883.88	2,905.83	1.54	-0.42	0.145
40.00	-31.48	-9.18	0.00	-568.46	0.00	568.46	3,744.12	1,872.06	5,549.75	2,740.81	2.01	-0.48	0.140
40.24	-31.39	-9.10	0.00	-566.22	0.00	566.22	3,738.74	1,869.37	5,533.71	2,732.89	2.04	-0.48	0.140
45.00	-28.97	-8.96	0.00	-522.94	0.00	522.94	3,633.72	1,816.86	5,225.39	2,580.62	2.55	-0.54	0.133
45.40	-28.77	-8.87	0.00	-519.36	0.00	519.36	3,063.79	1,531.89	4,506.32	2,225.50	2.59	-0.54	0.148
50.00	-27.23	-8.66	0.00	-478.56	0.00	478.56	3,008.67	1,504.34	4,302.82	2,125.00	3.14	-0.60	0.141
55.00	-25.58	-8.51	0.00	-435.26	0.00	435.26	2,946.93	1,473.46	4,084.17	2,017.02	3.80	-0.66	0.133
55.68	-25.36	-8.42	0.00	-429.50	0.00	429.50	2,938.42	1,469.21	4,054.78	2,002.51	3.89	-0.67	0.132
55.68	-25.36	-8.42	0.00	-429.50	0.00	429.50	2,938.42	1,469.21	4,054.78	2,002.51	3.89	-0.67	0.223
60.00	-24.24	-8.25	0.00	-393.12	0.00	393.12	2,883.27	1,441.64	3,868.42	1,910.47	4.52	-0.72	0.214
63.00	-23.44	-8.14	0.00	-368.36	0.00	368.36	2,844.16	1,422.08	3,740.46	1,847.27	4.99	-0.78	0.208
65.00	-23.06	-8.05	0.00	-352.09	0.00	352.09	2,808.42	1,404.21	3,643.77	1,799.52	5.33	-0.82	0.204
70.00	-22.14	-7.91	0.00	-311.82	0.00	311.82	2,713.79	1,356.89	3,400.96	1,679.61	6.24	-0.92	0.194
75.00	-21.24	-7.72	0.00	-272.25	0.00	272.25	2,619.16	1,309.58	3,166.52	1,563.83	7.25	-1.01	0.182
80.00	-20.27	-7.49	0.00	-233.66	0.00	233.66	2,524.53	1,262.26	2,940.46	1,452.18	8.36	-1.10	0.169
80.79	-20.13	-7.41	0.00	-227.73	0.00	227.73	2,509.53	1,254.76	2,905.39	1,434.86	8.54	-1.12	0.167
84.94	-19.11	-7.29	0.00	-196.98	0.00	196.98	1,499.90	749.95	1,728.05	853.42	9.54	-1.19	0.244
85.00	-19.09	-7.23	0.00	-196.57	0.00	196.57	1,499.54	749.77	1,726.89	852.85	9.56	-1.19	0.243
90.00	-15.53	-5.93	0.00	-160.43	0.00	160.43	1,466.64	733.32	1,624.12	802.09	10.87	-1.30	0.211
95.00	-14.95	-5.81	0.00	-130.77	0.00	130.77	1,431.82	715.91	1,522.23	751.77	12.29	-1.41	0.184
100.00	-11.98	-4.61	0.00	-101.72	0.00	101.72	1,395.09	697.54	1,421.47	702.01	13.82	-1.50	0.154
105.00	-11.49	-4.48	0.00	-78.69	0.00	78.69	1,356.44	678.22	1,322.10	652.93	15.44	-1.58	0.129
110.00	-11.02	-4.40	0.00	-56.28	0.00	56.28	1,315.88	657.94	1,224.36	604.67	17.14	-1.66	0.101
111.00	-8.77	-3.51	0.00	-51.88	0.00	51.88	1,307.54	653.77	1,205.03	595.12	17.49	-1.67	0.094
115.00	-8.43	-3.36	0.00	-37.84	0.00	37.84	1,273.40	636.70	1,128.51	557.33	18.90	-1.71	0.075
120.00	-4.70	-1.83	0.00	-21.06	0.00	21.06	1,215.41	607.71	1,023.37	505.40	20.72	-1.75	0.046
125.00	-4.34	-1.76	0.00	-11.89	0.00	11.89	1,152.33	576.16	919.28	454.00	22.57	-1.78	0.030
125.59	-4.30	-1.72	0.00	-10.84	0.00	10.84	1,144.85	572.43	907.31	448.09	22.79	-1.78	0.028
125.59	-4.30	-1.72	0.00	-10.84	0.00	10.84	385.02	192.51	160.54	106.00	22.79	-1.78	0.114
130.00	-4.03	-1.67	0.00	-3.24	0.00	3.24	385.02	192.51	160.54	106.00	24.44	-1.79	0.041
131.00	-0.55	-0.22	0.00	-1.57	0.00	1.57	385.02	192.51	160.54	106.00	24.82	-1.80	0.016
135.00	-0.36	-0.16	0.00	-0.71	0.00	0.71	385.02	192.51	160.54	106.00	26.33	-1.81	0.008
136.00	-0.25	-0.04	0.00	-0.17	0.00	0.17	385.02	192.51	160.54	106.00	26.71	-1.81	0.002
140.00	-0.08	-0.01	0.00	-0.02	0.00	0.02	385.02	192.51	160.54	106.00	28.22	-1.81	0.000
142.00	0.00	-0.01	0.00	0.00	0.00	0.00	385.02	192.51	160.54	106.00	28.98	-1.81	0.000

Site Number: 302511

Code: ANSI/TIA-222-G

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Site Name: WSPT - South, CT

Engineering Number: OAA720395_C3_01

1/3/2018 11:04:08 AM

Customer: AT&T MOBILITY

Equivalent Lateral Forces Method Analysis

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

Spectral Response Acceleration for Short Period (S_g):	0.22
Spectral Response Acceleration at 1.0 Second Period (S_1):	0.07
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}):	0.24
Design Spectral Response Acceleration at 1.0 Second Period (S_{d1}):	0.11
Seismic Response Coefficient (C_s):	0.03
Upper Limit C_s	0.03
Lower Limit C_s	0.03
Period based on Rayleigh Method (sec):	2.23
Redundancy Factor (ρ):	1.30
Seismic Force Distribution Exponent (k):	1.87
Total Unfactored Dead Load:	46.82 k
Seismic Base Shear (E):	1.92 k

Load Case (1.2 + 0.2Sds) * DL + E ELFM

Seismic Equivalent Lateral Forces Method

Segment	Height Above Base (ft)	Weight (lb)	W_z (lb-ft)	C_{vx}	Horizontal Force (lb)	Vertical Force (lb)
39	141.00	83	850	0.005	10	104
38	138.00	166	1,634	0.010	20	207
37	135.50	47	442	0.003	5	58
36	133.00	186	1,708	0.011	21	232
35	130.50	60	530	0.003	6	75
34	127.80	264	2,246	0.014	27	329
33	125.30	42	347	0.002	4	53
32	122.50	365	2,868	0.018	35	455
31	117.50	421	3,059	0.019	37	525
30	113.00	347	2,346	0.015	28	433
29	110.50	92	599	0.004	7	115
28	107.50	470	2,898	0.018	35	586
27	102.50	485	2,733	0.017	33	605
26	97.50	555	2,851	0.018	35	692
25	92.50	570	2,652	0.017	32	710
24	87.50	647	2,715	0.017	33	807
23	84.97	7	29	0.000	0	9
22	82.87	1,022	3,874	0.024	47	1,274
21	80.40	135	484	0.003	6	169
20	77.50	867	2,901	0.018	35	1,081
19	72.50	889	2,626	0.017	32	1,108
18	67.50	910	2,355	0.015	29	1,135
17	64.00	370	867	0.005	11	462

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1/3/2018 11:04:08 AM

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16	61.50	763	1,658	0.010	20	951
15	57.84	1,113	2,158	0.014	26	1,388
14	55.34	221	395	0.002	5	276
13	52.50	1,645	2,662	0.017	32	2,051
12	47.70	1,532	2,074	0.013	25	1,911
11	45.20	201	246	0.002	3	251
10	42.62	2,415	2,649	0.017	32	3,012
9	40.12	88	86	0.001	1	110
8	37.50	1,819	1,571	0.010	19	2,268
7	32.50	1,844	1,220	0.008	15	2,300
6	27.50	1,870	906	0.006	11	2,332
5	22.50	1,895	631	0.004	8	2,364
4	17.50	1,921	400	0.003	5	2,395
3	12.50	1,946	217	0.001	3	2,427
2	7.50	1,972	85	0.001	1	2,459
1	2.50	1,997	11	0.000	0	2,491
RCU (Remote Control	136.00	3	29	0.000	0	4
Kathrein Scala 742-2	136.00	68	645	0.004	8	84
Powerwave Allgon 702	131.00	26	235	0.001	3	33
Kaelus DBC0061F1V51-	131.00	153	1,363	0.009	17	191
Powerwave Allgon LGP	131.00	169	1,508	0.010	18	211
Raycap DC6-48-60-18-	131.00	32	283	0.002	3	40
Raycap DC6-48-60-18-	131.00	32	283	0.002	3	40
Ericsson RRUS-11 (50	131.00	150	1,337	0.008	16	187
Ericsson RRUS 32 w/	131.00	159	1,414	0.009	17	198
Ericsson RRUS 32 B2	131.00	159	1,417	0.009	17	198
Powerwave Allgon 777	131.00	105	936	0.006	11	131
Quintel QS66512-2	131.00	333	2,967	0.019	36	415
CCI HPA-65R-BUU-H6	131.00	153	1,363	0.009	17	191
Flat Platform w/ Han	131.00	2,000	17,821	0.113	216	2,494
DragonWave Horizon C	120.00	21	160	0.001	2	26
Alcatel-Lucent RRH2x	120.00	159	1,201	0.008	15	198
NextNet BTS-2500	120.00	105	794	0.005	10	131
Alcatel-Lucent 800 M	120.00	192	1,453	0.009	18	239
Alcatel-Lucent 1900	120.00	180	1,362	0.009	17	224
Alcatel-Lucent TD-RR	120.00	210	1,589	0.010	19	262
Argus LLPX310R	120.00	86	649	0.004	8	107
DragonWave A-ANT-18G	120.00	54	410	0.003	5	68
RFS APXVSP18-C-A20	120.00	171	1,294	0.008	16	213
Commscope DT465B-2XR	120.00	174	1,316	0.008	16	217
Flat Platform w/ Han	120.00	2,000	15,131	0.096	184	2,494
48" x 8" Panel	111.00	180	1,177	0.007	14	224
Flat Platform w/ Han	111.00	2,000	13,083	0.083	159	2,494
RFS FD9R6004/1C-3L	100.00	19	100	0.001	1	23
Alcatel-Lucent RRH2x	100.00	132	711	0.004	9	165
Rymsa MGD3-800TX	100.00	46	249	0.002	3	58
Antel BXA-171063/12C	100.00	45	242	0.002	3	56
RFS DB-T1-6Z-8AB-0Z	100.00	44	237	0.001	3	55
Antel BXA-70080/6CF_	100.00	54	291	0.002	4	67
Powerwave Allgon P65	100.00	99	533	0.003	6	123
Flat Platform w/ Han	100.00	2,000	10,768	0.068	131	2,494
RFS ATMAA1412D-1A20	90.00	52	230	0.001	3	65
Ericsson RRUS 11 B12	90.00	152	673	0.004	8	190
Ericsson AIR 21, 1.3	90.00	332	1,469	0.009	18	414
Ericsson AIR 21, 1.3	90.00	244	1,082	0.007	13	305
Andrew LNX-6515DS-VT	90.00	154	681	0.004	8	192
Flat Platform w/ Han	90.00	2,000	8,847	0.056	107	2,494
Diamond X50A	80.00	5	16	0.000	0	6
Stand-Offs	80.00	100	355	0.002	4	125
PCTEL GPS-TMG-HR-26N	63.00	1	1	0.000	0	1
Stand-Off	63.00	30	68	0.000	1	37
		46,824	158,352	1.000	1,921	58,397

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Code: ANSI/TIA-222-G

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Site Name: WSPT - South, CT

Engineering Number: OAA720395_C3_01

1/3/2018 11:04:08 AM

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)
39	141.00	83	850	0.005	10	71
38	138.00	166	1,634	0.010	20	142
37	135.50	47	442	0.003	5	40
36	133.00	186	1,708	0.011	21	159
35	130.50	60	530	0.003	6	51
34	127.80	264	2,246	0.014	27	225
33	125.30	42	347	0.002	4	36
32	122.50	365	2,868	0.018	35	311
31	117.50	421	3,059	0.019	37	359
30	113.00	347	2,346	0.015	28	296
29	110.50	92	599	0.004	7	79
28	107.50	470	2,898	0.018	35	401
27	102.50	485	2,733	0.017	33	413
26	97.50	555	2,851	0.018	35	473
25	92.50	570	2,652	0.017	32	486
24	87.50	647	2,715	0.017	33	552
23	84.97	7	29	0.000	0	6
22	82.87	1,022	3,874	0.024	47	871
21	80.40	135	484	0.003	6	115
20	77.50	867	2,901	0.018	35	739
19	72.50	889	2,626	0.017	32	758
18	67.50	910	2,355	0.015	29	776
17	64.00	370	867	0.005	11	316
16	61.50	763	1,658	0.010	20	651
15	57.84	1,113	2,158	0.014	26	949
14	55.34	221	395	0.002	5	188
13	52.50	1,645	2,662	0.017	32	1,403
12	47.70	1,532	2,074	0.013	25	1,307
11	45.20	201	246	0.002	3	172
10	42.62	2,415	2,649	0.017	32	2,060
9	40.12	88	86	0.001	1	75
8	37.50	1,819	1,571	0.010	19	1,551
7	32.50	1,844	1,220	0.008	15	1,573
6	27.50	1,870	906	0.006	11	1,595
5	22.50	1,895	631	0.004	8	1,616
4	17.50	1,921	400	0.003	5	1,638
3	12.50	1,946	217	0.001	3	1,660
2	7.50	1,972	85	0.001	1	1,682
1	2.50	1,997	11	0.000	0	1,703
RCU (Remote Control	136.00	3	29	0.000	0	3
Kathrein Scala 742-2	136.00	68	645	0.004	8	58
Powerwave Allgon 702	131.00	26	235	0.001	3	23
Kaelus DBC0061F1V51-	131.00	153	1,363	0.009	17	130
Powerwave Allgon LGP	131.00	169	1,508	0.010	18	144
Raycap DC6-48-60-18-	131.00	32	283	0.002	3	27
Raycap DC6-48-60-18-	131.00	32	283	0.002	3	27
Ericsson RRUS-11 (50	131.00	150	1,337	0.008	16	128
Ericsson RRUS 32 w/	131.00	159	1,414	0.009	17	135
Ericsson RRUS 32 B2	131.00	159	1,417	0.009	17	136
Powerwave Allgon 777	131.00	105	936	0.006	11	90
Quintel QS66512-2	131.00	333	2,967	0.019	36	284
CCI HPA-65R-BUU-H6	131.00	153	1,363	0.009	17	130
Flat Platform w/ Han	131.00	2,000	17,821	0.113	216	1,706
DragonWave Horizon C	120.00	21	160	0.001	2	18
Alcatel-Lucent RRH2x	120.00	159	1,201	0.008	15	135
NextNet BTS-2500	120.00	105	794	0.005	10	90
Alcatel-Lucent 800 M	120.00	192	1,453	0.009	18	164

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1/3/2018 11:04:08 AM

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Alcatel-Lucent 1900	120.00	180	1,362	0.009	17	154
Alcatel-Lucent TD-RR	120.00	210	1,589	0.010	19	179
Argus LLPX310R	120.00	86	649	0.004	8	73
DragonWave A-ANT-18G	120.00	54	410	0.003	5	46
RFS APXVSP18-C-A20	120.00	171	1,294	0.008	16	146
Commscope DT465B-2XR	120.00	174	1,316	0.008	16	148
Flat Platform w/ Han	120.00	2,000	15,131	0.096	184	1,706
48" x 8" Panel	111.00	180	1,177	0.007	14	154
Flat Platform w/ Han	111.00	2,000	13,083	0.083	159	1,706
RFS FD9R6004/1C-3L	100.00	19	100	0.001	1	16
Alcatel-Lucent RRH2x	100.00	132	711	0.004	9	113
Ryma MGD3-800TX	100.00	46	249	0.002	3	39
Antel BXA-171063/12C	100.00	45	242	0.002	3	38
RFS DB-T1-6Z-8AB-0Z	100.00	44	237	0.001	3	38
Antel BXA-70080/6CF_	100.00	54	291	0.002	4	46
Powerwave Allgon P65	100.00	99	533	0.003	6	84
Flat Platform w/ Han	100.00	2,000	10,768	0.068	131	1,706
RFS ATMAA1412D-1A20	90.00	52	230	0.001	3	44
Ericsson RRUS 11 B12	90.00	152	673	0.004	8	130
Ericsson AIR 21, 1.3	90.00	332	1,469	0.009	18	283
Ericsson AIR 21, 1.3	90.00	244	1,082	0.007	13	209
Andrew LNX-6515DS-VT	90.00	154	681	0.004	8	131
Flat Platform w/ Han	90.00	2,000	8,847	0.056	107	1,706
Diamond X50A	80.00	5	16	0.000	0	4
Stand-Offs	80.00	100	355	0.002	4	85
PCTEL GPS-TMG-HR-26N	63.00	1	1	0.000	0	1
Stand-Off	63.00	30	68	0.000	1	26
		46,824	158,352	1.000	1,921	39,934

Site Number: 302511

Code: ANSI/TIA-222-G

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Site Name: WSPT - South, CT

Engineering Number: OAA720395_C3_01

1/3/2018 11:04:08 AM

Load Case (1.2 + 0.2Sds) * DL + E ELMF

Seismic Equivalent Lateral Forces Method

Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-55.91	-1.93	0.00	-207.50	0.00	207.50	4,350.13	2,175.06	7,987.32	3,944.64	0.00	0.00	0.047
5.00	-53.45	-1.94	0.00	-197.87	0.00	197.87	4,285.51	2,142.75	7,679.11	3,792.42	0.01	-0.01	0.046
10.00	-51.02	-1.94	0.00	-188.19	0.00	188.19	4,218.97	2,109.49	7,373.27	3,641.38	0.03	-0.03	0.045
15.00	-48.62	-1.95	0.00	-178.46	0.00	178.46	4,150.52	2,075.26	7,070.06	3,491.64	0.06	-0.04	0.044
20.00	-46.26	-1.95	0.00	-168.72	0.00	168.72	4,080.16	2,040.08	6,769.73	3,343.32	0.11	-0.05	0.043
25.00	-43.93	-1.95	0.00	-158.96	0.00	158.96	4,007.88	2,003.94	6,472.54	3,196.54	0.17	-0.07	0.041
30.00	-41.63	-1.94	0.00	-149.22	0.00	149.22	3,933.69	1,966.85	6,178.73	3,051.44	0.25	-0.08	0.040
35.00	-39.36	-1.93	0.00	-139.52	0.00	139.52	3,854.52	1,927.26	5,883.88	2,905.83	0.34	-0.09	0.039
40.00	-39.25	-1.93	0.00	-129.89	0.00	129.89	3,744.12	1,872.06	5,549.75	2,740.81	0.44	-0.11	0.038
40.24	-36.23	-1.90	0.00	-129.41	0.00	129.41	3,738.74	1,869.37	5,533.71	2,732.89	0.45	-0.11	0.038
45.00	-35.98	-1.90	0.00	-120.39	0.00	120.39	3,633.72	1,816.86	5,225.39	2,580.62	0.56	-0.12	0.036
45.40	-34.07	-1.87	0.00	-119.63	0.00	119.63	3,063.79	1,531.89	4,506.32	2,225.50	0.57	-0.12	0.040
50.00	-32.02	-1.84	0.00	-111.02	0.00	111.02	3,008.67	1,504.34	4,302.82	2,125.00	0.69	-0.13	0.039
55.00	-31.74	-1.84	0.00	-101.80	0.00	101.80	2,946.93	1,473.46	4,084.17	2,017.02	0.84	-0.15	0.037
55.68	-30.36	-1.82	0.00	-100.55	0.00	100.55	2,938.42	1,469.21	4,054.78	2,002.51	0.86	-0.15	0.036
55.68	-30.36	-1.82	0.00	-100.55	0.00	100.55	2,938.42	1,469.21	4,054.78	2,002.51	0.86	-0.15	0.061
60.00	-29.40	-1.80	0.00	-92.70	0.00	92.70	2,883.27	1,441.64	3,868.42	1,910.47	1.00	-0.16	0.059
63.00	-28.90	-1.79	0.00	-87.30	0.00	87.30	2,844.16	1,422.08	3,740.46	1,847.27	1.11	-0.18	0.057
65.00	-27.77	-1.77	0.00	-83.71	0.00	83.71	2,808.42	1,404.21	3,643.77	1,799.52	1.19	-0.19	0.056
70.00	-26.66	-1.74	0.00	-74.86	0.00	74.86	2,713.79	1,356.89	3,400.96	1,679.61	1.39	-0.21	0.054
75.00	-25.58	-1.72	0.00	-66.14	0.00	66.14	2,619.16	1,309.58	3,166.52	1,563.83	1.62	-0.23	0.052
80.00	-25.28	-1.71	0.00	-57.56	0.00	57.56	2,524.53	1,262.26	2,940.46	1,452.18	1.88	-0.25	0.050
80.79	-24.00	-1.66	0.00	-56.20	0.00	56.20	2,509.53	1,254.76	2,905.39	1,434.86	1.92	-0.26	0.049
84.94	-24.00	-1.67	0.00	-49.31	0.00	49.31	1,499.90	749.95	1,728.05	853.42	2.15	-0.28	0.074
85.00	-23.19	-1.63	0.00	-49.21	0.00	49.21	1,499.54	749.77	1,726.89	852.85	2.16	-0.28	0.073
90.00	-18.82	-1.43	0.00	-41.04	0.00	41.04	1,466.64	733.32	1,624.12	802.09	2.46	-0.30	0.064
95.00	-18.13	-1.40	0.00	-33.88	0.00	33.88	1,431.82	715.91	1,522.23	751.77	2.80	-0.33	0.058
100.00	-14.48	-1.19	0.00	-26.88	0.00	26.88	1,395.09	697.54	1,421.47	702.01	3.16	-0.36	0.049
105.00	-13.89	-1.16	0.00	-20.91	0.00	20.91	1,356.44	678.22	1,322.10	652.93	3.54	-0.38	0.042
110.00	-13.78	-1.15	0.00	-15.12	0.00	15.12	1,315.88	657.94	1,224.36	604.67	3.95	-0.40	0.035
111.00	-10.63	-0.93	0.00	-13.97	0.00	13.97	1,307.54	653.77	1,205.03	595.12	4.03	-0.40	0.032
115.00	-10.10	-0.89	0.00	-10.24	0.00	10.24	1,273.40	636.70	1,128.51	557.33	4.37	-0.41	0.026
120.00	-5.47	-0.52	0.00	-5.77	0.00	5.77	1,215.41	607.71	1,023.37	505.40	4.81	-0.42	0.016
125.00	-5.42	-0.51	0.00	-3.19	0.00	3.19	1,152.33	576.16	919.28	454.00	5.26	-0.43	0.012
125.59	-5.09	-0.48	0.00	-2.88	0.00	2.88	1,144.85	572.43	907.31	448.09	5.31	-0.43	0.011
125.59	-5.09	-0.48	0.00	-2.88	0.00	2.88	385.02	192.51	160.54	106.00	5.31	-0.43	0.040
130.00	-5.01	-0.48	0.00	-0.75	0.00	0.75	385.02	192.51	160.54	106.00	5.71	-0.43	0.020
131.00	-0.46	-0.05	0.00	-0.27	0.00	0.27	385.02	192.51	160.54	106.00	5.80	-0.44	0.004
135.00	-0.40	-0.04	0.00	-0.08	0.00	0.08	385.02	192.51	160.54	106.00	6.17	-0.44	0.002
136.00	-0.10	-0.01	0.00	-0.04	0.00	0.04	385.02	192.51	160.54	106.00	6.26	-0.44	0.001
140.00	0.00	0.00	0.00	0.00	0.00	0.00	385.02	192.51	160.54	106.00	6.62	-0.44	0.000
142.00	0.00	0.00	0.00	0.00	0.00	0.00	385.02	192.51	160.54	106.00	6.81	-0.44	0.000

Site Number: 302511

Code: ANSI/TIA-222-G

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Site Name: WSPT - South, CT

Engineering Number: OAA720395_C3_01

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Load Case (0.9 - 0.2Sds) * DL + E ELMF

Seismic (Reduced DL) Equivalent Lateral Forces Method

Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-38.23	-1.92	0.00	-204.37	0.00	204.37	4,350.13	2,175.06	7,987.32	3,944.64	0.00	0.00	0.043
5.00	-36.55	-1.93	0.00	-194.75	0.00	194.75	4,285.51	2,142.75	7,679.11	3,792.42	0.01	-0.01	0.042
10.00	-34.89	-1.94	0.00	-185.10	0.00	185.10	4,218.97	2,109.49	7,373.27	3,641.38	0.03	-0.03	0.041
15.00	-33.25	-1.94	0.00	-175.42	0.00	175.42	4,150.52	2,075.26	7,070.06	3,491.64	0.06	-0.04	0.040
20.00	-31.63	-1.94	0.00	-165.73	0.00	165.73	4,080.16	2,040.08	6,769.73	3,343.32	0.11	-0.05	0.039
25.00	-30.04	-1.93	0.00	-156.05	0.00	156.05	4,007.88	2,003.94	6,472.54	3,196.54	0.17	-0.06	0.038
30.00	-28.46	-1.92	0.00	-146.41	0.00	146.41	3,933.69	1,966.85	6,178.73	3,051.44	0.24	-0.08	0.037
35.00	-26.91	-1.90	0.00	-136.81	0.00	136.81	3,854.52	1,927.26	5,883.88	2,905.83	0.33	-0.09	0.036
40.00	-26.84	-1.91	0.00	-127.28	0.00	127.28	3,744.12	1,872.06	5,549.75	2,740.81	0.43	-0.10	0.035
40.24	-24.78	-1.87	0.00	-126.82	0.00	126.82	3,738.74	1,869.37	5,533.71	2,732.89	0.44	-0.11	0.035
45.00	-24.61	-1.87	0.00	-117.91	0.00	117.91	3,633.72	1,816.86	5,225.39	2,580.62	0.55	-0.12	0.034
45.40	-23.30	-1.85	0.00	-117.16	0.00	117.16	3,063.79	1,531.89	4,506.32	2,225.50	0.56	-0.12	0.037
50.00	-21.90	-1.82	0.00	-108.66	0.00	108.66	3,008.67	1,504.34	4,302.82	2,125.00	0.68	-0.13	0.036
55.00	-21.71	-1.82	0.00	-99.57	0.00	99.57	2,946.93	1,473.46	4,084.17	2,017.02	0.83	-0.14	0.034
55.68	-20.76	-1.79	0.00	-98.34	0.00	98.34	2,938.42	1,469.21	4,054.78	2,002.51	0.85	-0.15	0.034
55.68	-20.76	-1.79	0.00	-98.34	0.00	98.34	2,938.42	1,469.21	4,054.78	2,002.51	0.85	-0.15	0.034
60.00	-20.11	-1.77	0.00	-90.60	0.00	90.60	2,883.27	1,441.64	3,868.42	1,910.47	0.99	-0.16	0.054
63.00	-19.76	-1.76	0.00	-85.29	0.00	85.29	2,844.16	1,422.08	3,740.46	1,847.27	1.09	-0.17	0.053
65.00	-18.99	-1.74	0.00	-81.76	0.00	81.76	2,808.42	1,404.21	3,643.77	1,799.52	1.16	-0.18	0.052
70.00	-18.23	-1.71	0.00	-73.07	0.00	73.07	2,713.79	1,356.89	3,400.96	1,679.61	1.37	-0.20	0.050
75.00	-17.49	-1.68	0.00	-64.51	0.00	64.51	2,619.16	1,309.58	3,166.52	1,563.83	1.59	-0.23	0.048
80.00	-17.28	-1.67	0.00	-56.11	0.00	56.11	2,524.53	1,262.26	2,940.46	1,452.18	1.84	-0.25	0.045
80.79	-16.41	-1.62	0.00	-54.79	0.00	54.79	2,509.53	1,254.76	2,905.39	1,434.86	1.89	-0.25	0.045
84.94	-16.41	-1.63	0.00	-48.04	0.00	48.04	1,499.90	749.95	1,728.05	853.42	2.11	-0.27	0.067
85.00	-15.85	-1.60	0.00	-47.95	0.00	47.95	1,499.54	749.77	1,726.89	852.85	2.12	-0.27	0.067
90.00	-12.87	-1.40	0.00	-39.97	0.00	39.97	1,466.64	733.32	1,624.12	802.09	2.41	-0.30	0.059
95.00	-12.39	-1.37	0.00	-32.99	0.00	32.99	1,431.82	715.91	1,522.23	751.77	2.74	-0.32	0.053
100.00	-9.90	-1.16	0.00	-26.16	0.00	26.16	1,395.09	697.54	1,421.47	702.01	3.09	-0.35	0.044
105.00	-9.50	-1.13	0.00	-20.35	0.00	20.35	1,356.44	678.22	1,322.10	652.93	3.47	-0.37	0.038
110.00	-9.42	-1.12	0.00	-14.71	0.00	14.71	1,315.88	657.94	1,224.36	604.67	3.87	-0.39	0.031
111.00	-7.27	-0.91	0.00	-13.59	0.00	13.59	1,307.54	653.77	1,205.03	595.12	3.95	-0.39	0.028
115.00	-6.91	-0.87	0.00	-9.97	0.00	9.97	1,273.40	636.70	1,128.51	557.33	4.28	-0.40	0.023
120.00	-3.74	-0.50	0.00	-5.62	0.00	5.62	1,215.41	607.71	1,023.37	505.40	4.71	-0.41	0.014
125.00	-3.70	-0.50	0.00	-3.10	0.00	3.10	1,152.33	576.16	919.28	454.00	5.15	-0.42	0.010
125.59	-3.48	-0.47	0.00	-2.81	0.00	2.81	1,144.85	572.43	907.31	448.09	5.20	-0.42	0.009
125.59	-3.48	-0.47	0.00	-2.81	0.00	2.81	385.02	192.51	160.54	106.00	5.20	-0.42	0.036
130.00	-3.43	-0.46	0.00	-0.73	0.00	0.73	385.02	192.51	160.54	106.00	5.59	-0.42	0.016
131.00	-0.31	-0.05	0.00	-0.27	0.00	0.27	385.02	192.51	160.54	106.00	5.68	-0.43	0.003
135.00	-0.27	-0.04	0.00	-0.08	0.00	0.08	385.02	192.51	160.54	106.00	6.04	-0.43	0.001
136.00	-0.07	-0.01	0.00	-0.04	0.00	0.04	385.02	192.51	160.54	106.00	6.13	-0.43	0.001
140.00	0.00	0.00	0.00	0.00	0.00	0.00	385.02	192.51	160.54	106.00	6.48	-0.43	0.000
142.00	0.00	0.00	0.00	0.00	0.00	0.00	385.02	192.51	160.54	106.00	6.66	-0.43	0.000

Site Number: 302511

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Site Name: WSPT - South, CT

Engineering Number: OAA720395_C3_01

1/3/2018 11:04:08 AM

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):	0.22
Spectral Response Acceleration at 1.0 Second Period (S_1):	0.07
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}):	0.24
Design Spectral Response Acceleration at 1.0 Second Period (S_{d1}):	0.11
Period Based on Rayleigh Method (sec):	2.23
Redundancy Factor (ρ):	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	Saz	Horizontal Force (lb)	Vertical Force (lb)
39	141.00	83	1.863	1.843	1.090	0.425	31	104
38	138.00	166	1.785	1.471	0.952	0.365	53	207
37	135.50	47	1.721	1.203	0.847	0.318	13	58
36	133.00	186	1.658	0.969	0.752	0.274	44	232
35	130.50	60	1.596	0.767	0.665	0.233	12	75
34	127.80	264	1.531	0.580	0.580	0.192	44	329
33	125.30	42	1.472	0.433	0.510	0.157	6	53
32	122.50	365	1.407	0.296	0.439	0.120	38	455
31	117.50	421	1.294	0.112	0.331	0.064	23	525
30	113.00	347	1.197	0.002	0.252	0.022	7	433
29	110.50	92	1.144	-0.041	0.215	0.002	0	115
28	107.50	470	1.083	-0.079	0.177	-0.018	-7	586
27	102.50	485	0.985	-0.113	0.124	-0.043	-18	605
26	97.50	555	0.891	-0.122	0.084	-0.057	-28	692
25	92.50	570	0.802	-0.112	0.054	-0.061	-30	710
24	87.50	647	0.718	-0.092	0.033	-0.055	-31	807
23	84.97	7	0.677	-0.080	0.026	-0.048	0	9
22	82.87	1,022	0.644	-0.068	0.020	-0.041	-36	1,274
21	80.40	135	0.606	-0.055	0.015	-0.031	-4	169
20	77.50	867	0.563	-0.039	0.011	-0.017	-13	1,081
19	72.50	889	0.493	-0.013	0.007	0.007	5	1,108
18	67.50	910	0.427	0.009	0.006	0.029	23	1,135
17	64.00	370	0.384	0.023	0.007	0.042	13	462
16	61.50	763	0.355	0.032	0.008	0.049	32	951
15	57.84	1,113	0.314	0.042	0.011	0.057	55	1,388
14	55.34	221	0.287	0.048	0.013	0.061	12	276
13	52.50	1,645	0.258	0.054	0.016	0.064	91	2,051
12	47.70	1,532	0.213	0.061	0.021	0.066	88	1,911
11	45.20	201	0.191	0.064	0.024	0.066	12	251
10	42.62	2,415	0.170	0.066	0.027	0.066	138	3,012
9	40.12	88	0.151	0.068	0.030	0.066	5	110
8	37.50	1,819	0.132	0.069	0.033	0.065	102	2,268
7	32.50	1,844	0.099	0.071	0.037	0.063	101	2,300
6	27.50	1,870	0.071	0.072	0.041	0.062	100	2,332

Site Number: 302511

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Site Name: WSPT - South, CT

Engineering Number: OAA720395_C3_01

1/3/2018 11:04:08 AM

Customer: AT&T MOBILITY

5	22.50	1,895	0.047	0.071	0.042	0.060	98	2,364
4	17.50	1,921	0.029	0.068	0.040	0.057	95	2,395
3	12.50	1,946	0.015	0.060	0.035	0.052	88	2,427
2	7.50	1,972	0.005	0.045	0.026	0.042	71	2,459
1	2.50	1,997	0.001	0.019	0.010	0.020	35	2,491
RCU (Remote Control	136.00	3	1.734	1.254	0.867	0.328	1	4
Kathrein Scala 742-2	136.00	68	1.734	1.254	0.867	0.328	19	84
Powerwave Allgon 702	131.00	26	1.609	0.805	0.682	0.241	6	33
Kaelus DBC0061F1V51-	131.00	153	1.609	0.805	0.682	0.241	32	191
Powerwave Allgon LGP	131.00	169	1.609	0.805	0.682	0.241	35	211
Raycap DC6-48-60-18-	131.00	32	1.609	0.805	0.682	0.241	7	40
Raycap DC6-48-60-18-	131.00	32	1.609	0.805	0.682	0.241	7	40
Ericsson RRUS-11 (50	131.00	150	1.609	0.805	0.682	0.241	31	187
Ericsson RRUS 32 w/	131.00	159	1.609	0.805	0.682	0.241	33	198
Ericsson RRUS 32 B2	131.00	159	1.609	0.805	0.682	0.241	33	198
Powerwave Allgon 777	131.00	105	1.609	0.805	0.682	0.241	22	131
Quintel QS66512-2	131.00	333	1.609	0.805	0.682	0.241	70	415
CCI HPA-65R-BUU-H6	131.00	153	1.609	0.805	0.682	0.241	32	191
Flat Platform w/ Han	131.00	2,000	1.609	0.805	0.682	0.241	418	2,494
DragonWave Horizon C	120.00	21	1.350	0.195	0.382	0.091	2	26
Alcatel-Lucent RRH2x	120.00	159	1.350	0.195	0.382	0.091	12	198
NextNet BTS-2500	120.00	105	1.350	0.195	0.382	0.091	8	131
Alcatel-Lucent 800 M	120.00	192	1.350	0.195	0.382	0.091	15	239
Alcatel-Lucent 1900	120.00	180	1.350	0.195	0.382	0.091	14	224
Alcatel-Lucent TD-RR	120.00	210	1.350	0.195	0.382	0.091	16	262
Argus LLPX310R	120.00	86	1.350	0.195	0.382	0.091	7	107
DragonWave A-ANT-18G	120.00	54	1.350	0.195	0.382	0.091	4	68
RFS APXVSP18-C-A20	120.00	171	1.350	0.195	0.382	0.091	13	213
Commscope DT465B-	120.00	174	1.350	0.195	0.382	0.091	14	217
Flat Platform w/ Han	120.00	2,000	1.350	0.195	0.382	0.091	157	2,494
48" x 8" Panel	111.00	180	1.155	-0.034	0.223	0.006	1	224
Flat Platform w/ Han	111.00	2,000	1.155	-0.034	0.223	0.006	10	2,494
RFS FD9R6004/1C-3L	100.00	19	0.937	-0.120	0.102	-0.051	-1	23
Alcatel-Lucent RRH2x	100.00	132	0.937	-0.120	0.102	-0.051	-6	165
Rymsa MGD3-800TX	100.00	46	0.937	-0.120	0.102	-0.051	-2	58
Antel BXA-171063/12C	100.00	45	0.937	-0.120	0.102	-0.051	-2	56
RFS DB-T1-6Z-8AB-OZ	100.00	44	0.937	-0.120	0.102	-0.051	-2	55
Antel BXA-70080/6CF_	100.00	54	0.937	-0.120	0.102	-0.051	-2	67
Powerwave Allgon P65	100.00	99	0.937	-0.120	0.102	-0.051	-4	123
Flat Platform w/ Han	100.00	2,000	0.937	-0.120	0.102	-0.051	-89	2,494
RFS ATMAA1412D-1A20	90.00	52	0.759	-0.103	0.043	-0.059	-3	65
Ericsson RRUS 11 B12	90.00	152	0.759	-0.103	0.043	-0.059	-8	190
Ericsson AIR 21, 1.3	90.00	332	0.759	-0.103	0.043	-0.059	-17	414
Ericsson AIR 21, 1.3	90.00	244	0.759	-0.103	0.043	-0.059	-13	305
Andrew LNX-6515DS-VT	90.00	154	0.759	-0.103	0.043	-0.059	-8	192
Flat Platform w/ Han	90.00	2,000	0.759	-0.103	0.043	-0.059	-103	2,494
Diamond X50A	80.00	5	0.600	-0.053	0.015	-0.029	0	6
Stand-Offs	80.00	100	0.600	-0.053	0.015	-0.029	-3	125
PCTEL GPS-TMG-HR-	63.00	1	0.372	0.027	0.008	0.045	0	1
Stand-Off	63.00	30	0.372	0.027	0.008	0.045	1	37
		46,824	81.201	20.422	23.294	6.621	2,029	58,397

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)
39	141.00	83	1.863	1.843	1.090	0.425	31	71
38	138.00	166	1.785	1.471	0.952	0.365	53	142
37	135.50	47	1.721	1.203	0.847	0.318	13	40

Site Number: 302511

Code: ANSI/TIA-222-G

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Site Name: WSPT - South, CT

Engineering Number: OAA720395_C3_01

1/3/2018 11:04:08 AM

Customer: AT&T MOBILITY

36	133.00	186	1.658	0.969	0.752	0.274	44	159
35	130.50	60	1.596	0.767	0.665	0.233	12	51
34	127.80	264	1.531	0.580	0.580	0.192	44	225
33	125.30	42	1.472	0.433	0.510	0.157	6	36
32	122.50	365	1.407	0.296	0.439	0.120	38	311
31	117.50	421	1.294	0.112	0.331	0.064	23	359
30	113.00	347	1.197	0.002	0.252	0.022	7	296
29	110.50	92	1.144	-0.041	0.215	0.002	0	79
28	107.50	470	1.083	-0.079	0.177	-0.018	-7	401
27	102.50	485	0.985	-0.113	0.124	-0.043	-18	413
26	97.50	555	0.891	-0.122	0.084	-0.057	-28	473
25	92.50	570	0.802	-0.112	0.054	-0.061	-30	486
24	87.50	647	0.718	-0.092	0.033	-0.055	-31	552
23	84.97	7	0.677	-0.080	0.026	-0.048	0	6
22	82.87	1,022	0.644	-0.068	0.020	-0.041	-36	871
21	80.40	135	0.606	-0.055	0.015	-0.031	-4	115
20	77.50	867	0.563	-0.039	0.011	-0.017	-13	739
19	72.50	889	0.493	-0.013	0.007	0.007	5	758
18	67.50	910	0.427	0.009	0.006	0.029	23	776
17	64.00	370	0.384	0.023	0.007	0.042	13	316
16	61.50	763	0.355	0.032	0.008	0.049	32	651
15	57.84	1,113	0.314	0.042	0.011	0.057	55	949
14	55.34	221	0.287	0.048	0.013	0.061	12	188
13	52.50	1,645	0.258	0.054	0.016	0.064	91	1,403
12	47.70	1,532	0.213	0.061	0.021	0.066	88	1,307
11	45.20	201	0.191	0.064	0.024	0.066	12	172
10	42.62	2,415	0.170	0.066	0.027	0.066	138	2,060
9	40.12	88	0.151	0.068	0.030	0.066	5	75
8	37.50	1,819	0.132	0.069	0.033	0.065	102	1,551
7	32.50	1,844	0.099	0.071	0.037	0.063	101	1,573
6	27.50	1,870	0.071	0.072	0.041	0.062	100	1,595
5	22.50	1,895	0.047	0.071	0.042	0.060	98	1,616
4	17.50	1,921	0.029	0.068	0.040	0.057	95	1,638
3	12.50	1,946	0.015	0.060	0.035	0.052	88	1,660
2	7.50	1,972	0.005	0.045	0.026	0.042	71	1,682
1	2.50	1,997	0.001	0.019	0.010	0.020	35	1,703
RCU (Remote Control	136.00	3	1.734	1.254	0.867	0.328	1	3
Kathrein Scala 742-2	136.00	68	1.734	1.254	0.867	0.328	19	58
Powerwave Allgon 702	131.00	26	1.609	0.805	0.682	0.241	6	23
Kaelus DBC0061F1V51-	131.00	153	1.609	0.805	0.682	0.241	32	130
Powerwave Allgon LGP	131.00	169	1.609	0.805	0.682	0.241	35	144
Raycap DC6-48-60-18-	131.00	32	1.609	0.805	0.682	0.241	7	27
Raycap DC6-48-60-18-	131.00	32	1.609	0.805	0.682	0.241	7	27
Ericsson RRUS-11 (50	131.00	150	1.609	0.805	0.682	0.241	31	128
Ericsson RRUS 32 w/	131.00	159	1.609	0.805	0.682	0.241	33	135
Ericsson RRUS 32 B2	131.00	159	1.609	0.805	0.682	0.241	33	136
Powerwave Allgon 777	131.00	105	1.609	0.805	0.682	0.241	22	90
Quintel QS66512-2	131.00	333	1.609	0.805	0.682	0.241	70	284
CCI HPA-65R-BUU-H6	131.00	153	1.609	0.805	0.682	0.241	32	130
Flat Platform w/ Han	131.00	2,000	1.609	0.805	0.682	0.241	418	1,706
DragonWave Horizon C	120.00	21	1.350	0.195	0.382	0.091	2	18
Alcatel-Lucent RRH2x	120.00	159	1.350	0.195	0.382	0.091	12	135
NextNet BTS-2500	120.00	105	1.350	0.195	0.382	0.091	8	90
Alcatel-Lucent 800 M	120.00	192	1.350	0.195	0.382	0.091	15	164
Alcatel-Lucent 1900	120.00	180	1.350	0.195	0.382	0.091	14	154
Alcatel-Lucent TD-RR	120.00	210	1.350	0.195	0.382	0.091	16	179
Argus LLPX310R	120.00	86	1.350	0.195	0.382	0.091	7	73
DragonWave A-ANT-18G	120.00	54	1.350	0.195	0.382	0.091	4	46
RFS APXVSP18-C-A20	120.00	171	1.350	0.195	0.382	0.091	13	146
Commscope DT465B-	120.00	174	1.350	0.195	0.382	0.091	14	148
Flat Platform w/ Han	120.00	2,000	1.350	0.195	0.382	0.091	157	1,706
48" x 8" Panel	111.00	180	1.155	-0.034	0.223	0.006	1	154
Flat Platform w/ Han	111.00	2,000	1.155	-0.034	0.223	0.006	10	1,706
RFS FD9R6004/1C-3L	100.00	19	0.937	-0.120	0.102	-0.051	-1	16

Site Number: 302511

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Engineering Number: OAA720395_C3_01

1/3/2018 11:04:08 AM

Customer: AT&T MOBILITY

Alcatel-Lucent RRH2x	100.00	132	0.937	-0.120	0.102	-0.051	-6	113
Ryma MGD3-800TX	100.00	46	0.937	-0.120	0.102	-0.051	-2	39
Antel BXA-171063/12C	100.00	45	0.937	-0.120	0.102	-0.051	-2	38
RFS DB-T1-6Z-8AB-0Z	100.00	44	0.937	-0.120	0.102	-0.051	-2	38
Antel BXA-70080/6CF_	100.00	54	0.937	-0.120	0.102	-0.051	-2	46
Powerwave Allgon P65	100.00	99	0.937	-0.120	0.102	-0.051	-4	84
Flat Platform w/ Han	100.00	2,000	0.937	-0.120	0.102	-0.051	-89	1,706
RFS ATMAA1412D-1A20	90.00	52	0.759	-0.103	0.043	-0.059	-3	44
Ericsson RRUS 11 B12	90.00	152	0.759	-0.103	0.043	-0.059	-8	130
Ericsson AIR 21, 1.3	90.00	332	0.759	-0.103	0.043	-0.059	-17	283
Ericsson AIR 21, 1.3	90.00	244	0.759	-0.103	0.043	-0.059	-13	209
Andrew LNX-6515DS-VT	90.00	154	0.759	-0.103	0.043	-0.059	-8	131
Flat Platform w/ Han	90.00	2,000	0.759	-0.103	0.043	-0.059	-103	1,706
Diamond X50A	80.00	5	0.600	-0.053	0.015	-0.029	0	4
Stand-Offs	80.00	100	0.600	-0.053	0.015	-0.029	-3	85
PCTEL GPS-TMG-HR-	63.00	1	0.372	0.027	0.008	0.045	0	1
Stand-Off	63.00	30	0.372	0.027	0.008	0.045	1	26
		46,824	81.201	20.422	23.294	6.621	2,029	39,934

Site Number: 302511

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Site Name: WSPT - South, CT

Engineering Number: OAA720395_C3_01

1/3/2018 11:04:08 AM

Customer: AT&T MOBILITY

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

Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-55.91	-2.00	0.00	-171.41	0.00	171.41	4,350.13	2,175.06	7,987.32	3,944.64	0.00	0.00	0.040
5.00	-53.45	-1.94	0.00	-161.42	0.00	161.42	4,285.51	2,142.75	7,679.11	3,792.42	0.01	-0.01	0.039
10.00	-51.02	-1.86	0.00	-151.73	0.00	151.73	4,218.97	2,109.49	7,373.27	3,641.38	0.02	-0.02	0.038
15.00	-48.62	-1.77	0.00	-142.44	0.00	142.44	4,150.52	2,075.26	7,070.06	3,491.64	0.05	-0.03	0.037
20.00	-46.26	-1.68	0.00	-133.59	0.00	133.59	4,080.16	2,040.08	6,769.73	3,343.32	0.09	-0.04	0.036
25.00	-43.93	-1.58	0.00	-125.20	0.00	125.20	4,007.88	2,003.94	6,472.54	3,196.54	0.14	-0.05	0.034
30.00	-41.63	-1.49	0.00	-117.28	0.00	117.28	3,933.69	1,966.85	6,178.73	3,051.44	0.20	-0.06	0.033
35.00	-39.36	-1.39	0.00	-109.83	0.00	109.83	3,854.52	1,927.26	5,883.88	2,905.83	0.27	-0.07	0.032
40.00	-39.25	-1.39	0.00	-102.88	0.00	102.88	3,744.12	1,872.06	5,549.75	2,740.81	0.36	-0.08	0.032
40.24	-36.24	-1.25	0.00	-102.54	0.00	102.54	3,738.74	1,869.37	5,533.71	2,732.89	0.36	-0.09	0.031
45.00	-35.99	-1.24	0.00	-96.60	0.00	96.60	3,633.72	1,816.86	5,225.39	2,580.62	0.45	-0.10	0.031
45.40	-34.07	-1.15	0.00	-96.10	0.00	96.10	3,063.79	1,531.89	4,506.32	2,225.50	0.46	-0.10	0.034
50.00	-32.02	-1.07	0.00	-90.79	0.00	90.79	3,008.67	1,504.34	4,302.82	2,125.00	0.56	-0.11	0.033
55.00	-31.75	-1.06	0.00	-85.46	0.00	85.46	2,946.93	1,473.46	4,084.17	2,017.02	0.67	-0.12	0.032
55.68	-30.36	-1.00	0.00	-84.75	0.00	84.75	2,938.42	1,469.21	4,054.78	2,002.51	0.69	-0.12	0.032
55.68	-30.36	-1.00	0.00	-84.75	0.00	84.75	2,938.42	1,469.21	4,054.78	2,002.51	0.69	-0.12	0.053
60.00	-29.41	-0.97	0.00	-80.41	0.00	80.41	2,883.27	1,441.64	3,868.42	1,910.47	0.80	-0.13	0.052
63.00	-28.91	-0.96	0.00	-77.49	0.00	77.49	2,844.16	1,422.08	3,740.46	1,847.27	0.89	-0.14	0.052
65.00	-27.77	-0.94	0.00	-75.57	0.00	75.57	2,808.42	1,404.21	3,643.77	1,799.52	0.95	-0.15	0.052
70.00	-26.66	-0.95	0.00	-70.84	0.00	70.84	2,713.79	1,356.89	3,400.96	1,679.61	1.12	-0.17	0.052
75.00	-25.58	-0.97	0.00	-66.11	0.00	66.11	2,619.16	1,309.58	3,166.52	1,563.83	1.32	-0.20	0.052
80.00	-25.28	-0.98	0.00	-61.28	0.00	61.28	2,524.53	1,262.26	2,940.46	1,452.18	1.53	-0.22	0.052
80.79	-24.01	-1.01	0.00	-60.50	0.00	60.50	2,509.53	1,254.76	2,905.39	1,434.86	1.57	-0.22	0.052
84.94	-24.00	-1.02	0.00	-56.29	0.00	56.29	1,499.90	749.95	1,728.05	853.42	1.77	-0.24	0.082
85.00	-23.19	-1.05	0.00	-56.24	0.00	56.24	1,499.54	749.77	1,726.89	852.85	1.77	-0.24	0.081
90.00	-18.82	-1.23	0.00	-50.97	0.00	50.97	1,466.64	733.32	1,624.12	802.09	2.05	-0.28	0.076
95.00	-18.13	-1.26	0.00	-44.85	0.00	44.85	1,431.82	715.91	1,522.23	751.77	2.35	-0.31	0.072
100.00	-14.48	-1.37	0.00	-38.55	0.00	38.55	1,395.09	697.54	1,421.47	702.01	2.70	-0.34	0.065
105.00	-13.89	-1.39	0.00	-31.68	0.00	31.68	1,356.44	678.22	1,322.10	652.93	3.08	-0.38	0.059
110.00	-13.78	-1.39	0.00	-24.75	0.00	24.75	1,315.88	657.94	1,224.36	604.67	3.49	-0.41	0.051
111.00	-10.63	-1.35	0.00	-23.36	0.00	23.36	1,307.54	653.77	1,205.03	595.12	3.57	-0.41	0.047
115.00	-10.10	-1.33	0.00	-17.96	0.00	17.96	1,273.40	636.70	1,128.51	557.33	3.93	-0.43	0.040
120.00	-5.47	-0.99	0.00	-11.33	0.00	11.33	1,215.41	607.71	1,023.37	505.40	4.39	-0.45	0.027
125.00	-5.41	-0.99	0.00	-6.37	0.00	6.37	1,152.33	576.16	919.28	454.00	4.87	-0.47	0.019
125.59	-5.09	-0.94	0.00	-5.78	0.00	5.78	1,144.85	572.43	907.31	448.09	4.93	-0.47	0.017
125.59	-5.09	-0.94	0.00	-5.78	0.00	5.78	385.02	192.51	160.54	106.00	4.93	-0.47	0.068
130.00	-5.01	-0.93	0.00	-1.64	0.00	1.64	385.02	192.51	160.54	106.00	5.37	-0.47	0.028
131.00	-0.46	-0.12	0.00	-0.71	0.00	0.71	385.02	192.51	160.54	106.00	5.47	-0.48	0.008
135.00	-0.40	-0.11	0.00	-0.23	0.00	0.23	385.02	192.51	160.54	106.00	5.87	-0.48	0.003
136.00	-0.10	-0.03	0.00	-0.13	0.00	0.13	385.02	192.51	160.54	106.00	5.97	-0.48	0.001
140.00	0.00	0.00	0.00	0.00	0.00	0.00	385.02	192.51	160.54	106.00	6.37	-0.48	0.000
142.00	0.00	0.00	0.00	0.00	0.00	0.00	385.02	192.51	160.54	106.00	6.57	-0.48	0.000

Site Number: 302511

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Site Name: WSPT - South, CT

Engineering Number: OAA720395_C3_01

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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	-38.23	-2.00	0.00	-168.63	0.00	168.63	4,350.13	2,175.06	7,987.32	3,944.64	0.00	0.00	0.037
5.00	-36.55	-1.93	0.00	-158.65	0.00	158.65	4,285.51	2,142.75	7,679.11	3,792.42	0.01	-0.01	0.036
10.00	-34.89	-1.85	0.00	-148.99	0.00	148.99	4,218.97	2,109.49	7,373.27	3,641.38	0.02	-0.02	0.035
15.00	-33.25	-1.76	0.00	-139.74	0.00	139.74	4,150.52	2,075.26	7,070.06	3,491.64	0.05	-0.03	0.033
20.00	-31.63	-1.67	0.00	-130.94	0.00	130.94	4,080.16	2,040.08	6,769.73	3,343.32	0.09	-0.04	0.032
25.00	-30.04	-1.57	0.00	-122.61	0.00	122.61	4,007.88	2,003.94	6,472.54	3,196.54	0.14	-0.05	0.031
30.00	-28.47	-1.47	0.00	-114.76	0.00	114.76	3,933.69	1,966.85	6,178.73	3,051.44	0.20	-0.06	0.030
35.00	-26.91	-1.37	0.00	-107.40	0.00	107.40	3,854.52	1,927.26	5,883.88	2,905.83	0.27	-0.07	0.029
40.00	-26.84	-1.37	0.00	-100.53	0.00	100.53	3,744.12	1,872.06	5,549.75	2,740.81	0.35	-0.08	0.029
40.24	-24.78	-1.23	0.00	-100.20	0.00	100.20	3,738.74	1,869.37	5,533.71	2,732.89	0.35	-0.08	0.028
45.00	-24.61	-1.22	0.00	-94.34	0.00	94.34	3,633.72	1,816.86	5,225.39	2,580.62	0.44	-0.09	0.028
45.40	-23.30	-1.13	0.00	-93.85	0.00	93.85	3,063.79	1,531.89	4,506.32	2,225.50	0.45	-0.09	0.031
50.00	-21.90	-1.04	0.00	-88.64	0.00	88.64	3,008.67	1,504.34	4,302.82	2,125.00	0.55	-0.10	0.030
55.00	-21.71	-1.04	0.00	-83.41	0.00	83.41	2,946.93	1,473.46	4,084.17	2,017.02	0.66	-0.12	0.029
55.68	-20.76	-0.98	0.00	-82.71	0.00	82.71	2,938.42	1,469.21	4,054.78	2,002.51	0.68	-0.12	0.029
55.68	-20.76	-0.98	0.00	-82.71	0.00	82.71	2,938.42	1,469.21	4,054.78	2,002.51	0.68	-0.12	0.048
60.00	-20.11	-0.95	0.00	-78.47	0.00	78.47	2,883.27	1,441.64	3,868.42	1,910.47	0.79	-0.13	0.048
63.00	-19.77	-0.94	0.00	-75.62	0.00	75.62	2,844.16	1,422.08	3,740.46	1,847.27	0.87	-0.14	0.048
65.00	-18.99	-0.92	0.00	-73.74	0.00	73.74	2,808.42	1,404.21	3,643.77	1,799.52	0.93	-0.15	0.048
70.00	-18.23	-0.92	0.00	-69.15	0.00	69.15	2,713.79	1,356.89	3,400.96	1,679.61	1.10	-0.17	0.048
75.00	-17.49	-0.94	0.00	-64.55	0.00	64.55	2,619.16	1,309.58	3,166.52	1,563.83	1.29	-0.19	0.048
80.00	-17.29	-0.95	0.00	-59.87	0.00	59.87	2,524.53	1,262.26	2,940.46	1,452.18	1.50	-0.21	0.048
80.79	-16.42	-0.98	0.00	-59.13	0.00	59.13	2,509.53	1,254.76	2,905.39	1,434.86	1.54	-0.22	0.048
84.94	-16.41	-0.98	0.00	-55.05	0.00	55.05	1,499.90	749.95	1,728.05	853.42	1.73	-0.24	0.075
85.00	-15.86	-1.02	0.00	-55.00	0.00	55.00	1,499.54	749.77	1,726.89	852.85	1.74	-0.24	0.075
90.00	-12.87	-1.19	0.00	-49.91	0.00	49.91	1,466.64	733.32	1,624.12	802.09	2.00	-0.27	0.071
95.00	-12.39	-1.23	0.00	-43.94	0.00	43.94	1,431.82	715.91	1,522.23	751.77	2.30	-0.30	0.067
100.00	-9.90	-1.34	0.00	-37.81	0.00	37.81	1,395.09	697.54	1,421.47	702.01	2.64	-0.34	0.061
105.00	-9.50	-1.35	0.00	-31.09	0.00	31.09	1,356.44	678.22	1,322.10	652.93	3.01	-0.37	0.055
110.00	-9.42	-1.36	0.00	-24.32	0.00	24.32	1,315.88	657.94	1,224.36	604.67	3.41	-0.40	0.047
111.00	-7.26	-1.32	0.00	-22.97	0.00	22.97	1,307.54	653.77	1,205.03	595.12	3.50	-0.40	0.044
115.00	-6.90	-1.30	0.00	-17.67	0.00	17.67	1,273.40	636.70	1,128.51	557.33	3.84	-0.42	0.037
120.00	-3.74	-0.98	0.00	-11.16	0.00	11.16	1,215.41	607.71	1,023.37	505.40	4.30	-0.44	0.025
125.00	-3.70	-0.97	0.00	-6.28	0.00	6.28	1,152.33	576.16	919.28	454.00	4.77	-0.46	0.017
125.59	-3.48	-0.93	0.00	-5.70	0.00	5.70	1,144.85	572.43	907.31	448.09	4.83	-0.46	0.016
125.59	-3.48	-0.93	0.00	-5.70	0.00	5.70	385.02	192.51	160.54	106.00	4.83	-0.46	0.063
130.00	-3.42	-0.91	0.00	-1.62	0.00	1.62	385.02	192.51	160.54	106.00	5.25	-0.46	0.024
131.00	-0.31	-0.12	0.00	-0.70	0.00	0.70	385.02	192.51	160.54	106.00	5.35	-0.47	0.007
135.00	-0.27	-0.11	0.00	-0.23	0.00	0.23	385.02	192.51	160.54	106.00	5.74	-0.47	0.003
136.00	-0.07	-0.03	0.00	-0.12	0.00	0.12	385.02	192.51	160.54	106.00	5.84	-0.47	0.001
140.00	0.00	0.00	0.00	0.00	0.00	0.00	385.02	192.51	160.54	106.00	6.24	-0.47	0.000
142.00	0.00	0.00	0.00	0.00	0.00	0.00	385.02	192.51	160.54	106.00	6.43	-0.47	0.000

Site Number: 302511

Code: ANSI/TIA-222-G

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Site Name: WSPT - South, CT

Engineering Number: OAA720395_C3_01

1/3/2018 11:04:08 AM

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	41.02	0.00	56.10	0.00	0.00	3805.66	84.94	0.92
0.9D + 1.6W	39.38	0.00	42.06	0.00	0.00	3676.42	84.94	0.89
1.2D + 1.0Di + 1.0Wi	9.92	0.00	92.47	0.00	0.00	984.72	84.94	0.28
(1.2 + 0.2Sds) * DL + E ELFM	1.93	0.00	55.91	0.00	0.00	207.50	84.94	0.07
(1.2 + 0.2Sds) * DL + E EMAM	2.00	0.00	55.91	0.00	0.00	171.41	84.94	0.08
(0.9 - 0.2Sds) * DL + E ELFM	1.92	0.00	38.23	0.00	0.00	204.37	84.94	0.07
(0.9 - 0.2Sds) * DL + E EMAM	2.00	0.00	38.23	0.00	0.00	168.63	84.94	0.08
1.0D + 1.0W	10.25	0.00	46.82	0.00	0.00	961.69	84.94	0.24

Additional Steel Summary

Elev From (ft)	Elev To (ft)	Member	Intermediate Connectors			Upper Termination Connectors				Lower Termination Connectors				Max Member		
			VQ/I (lb/in)	Shear Applied (kips)	Shear phiVn (kips)	MQ/I (kips)	phiVn (kips)	Num Reqd	Num Actual	MQ/I (kips)	phiVn (kips)	Num Reqd	Num Actual	Pu (kip)	phiPn (kip)	Ratio
0.00	55.6	(4) SOL-#20 All Thre	338.3	10.2	16.8	205.5	12.0	18	22	0.0	12.0	0	0	261.5	330.5	0.791

Base/Flange Plate	Plate Type	Baseplate
	Pole Diameter	45 in
	Pole Thickness	0.4375 in
	Plate Diameter	60 in
	Plate Thickness	2 in
	Plate Fy	60 ksi
	Weld Length	0.3125 in
	ϕ_s Resistance	942.65 k-in
	Applied	604.07 k-in
Stiffeners	#	16 Show
	Thickness	0.5 in
	Length	4 in
	Height	10 in
	Chamfer	0 in
	Offset Angle	0 °
	Fy	36 ksi

Bolts	#	16
	Bolt Circle (R)adial / (S)quare	54 in R
	Diameter	2.25 in
	Hole Diameter	2.75 in
	Type	18J
	Fy	75 ksi
	Fu	100 ksi
	ϕ_s Resistance	259.82 k
	Applied	214.78 k
Reinforcement	#	0
Extra Bolts O	#	0

Code Rev. **G**

Date **1/3/2018**
 Engineer **Charles.Cages**
 Site # **302511**
 Carrier **AT&T MOBILITY**

Moment **3805.7 k-ft**
 Axial **56.1 k**

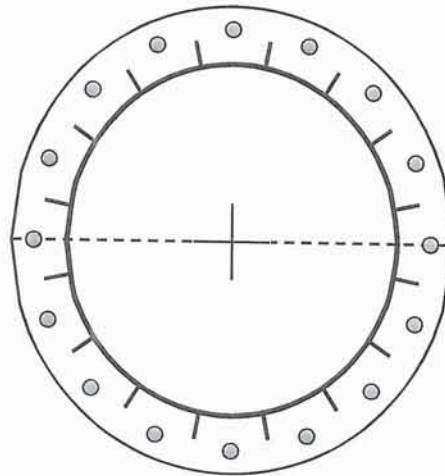


Plate Stress Ratio:
0.64 (Pass)

Bolt Stress Ratio:
0.83 (Pass)

Base/Flange Plate	Plate Type	Flange @ 125.6 ft
	Pole Diameter	10.75 in
	Pole Thickness	0.375 in
	Plate Diameter	28.5 in
	Plate Thickness	1 in
	Plate Fy	36 ksi
	Weld Length	0.3125 in
	ϕ_s Resistance	85.53 k-in
	Applied	32.53 k-in
	#	9 Show
Stiffeners	Thickness	0.25 in
	Length	4 in
	Height	6 in
	Chamfer	0 in
	Offset Angle	0 °
	Fy	36 ksi

Code Rev. **G**

Date **1/3/2018**
 Engineer **Charles.Cages**
 Site # **302511**
 Carrier **AT&T MOBILITY**

Moment **42.1 k-ft**
 Axial **4.4 k**

Bolts	#	15
	Bolt Circle	25.75 in
	(R)adial / (S)quare	R
	Diameter	1 in
	Hole Diameter	1.1875 in
	Type	A325
	Fy	92 ksi
	Fu	120 ksi
	ϕ_s Resistance	54.52 k
	Applied	4.93 k
Reinforcement	#	0
Extra Bolts	#	0

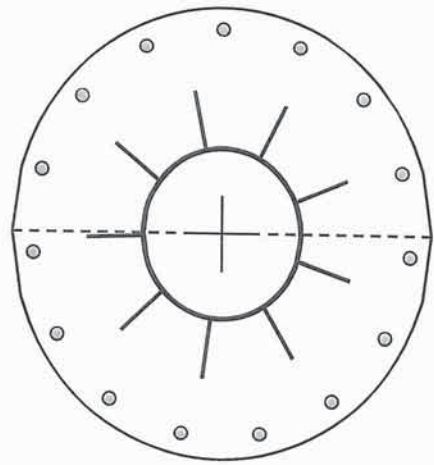
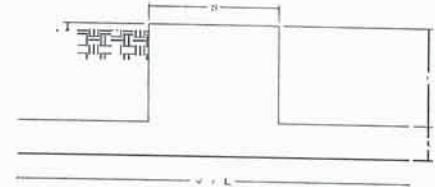


Plate Stress Ratio:
0.38 (Pass)

Bolt Stress Ratio:
0.09 (Pass)

Site Name: WSPT - South, CT
 Site Number: 302511
 Engineering Number: OAA720395
 Engineer: Charles.Cages
 Date: 01/03/18
 Tower Type: MP

Program Last Updated: 5/13/2014



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

Design / Analysis / Mapping:	Mapping
Compression/Leg:	56.1 k
Uplift/Leg:	0.0 k
Total Shear:	41.0 k
Moment:	3805.7 k-ft
Tower + Appurtenance Weight:	56.1 k
Depth to Base of Foundation (l + t - h):	7.00 ft
Diameter of Pier (d):	6.50 ft
Height of Pier above Ground (h):	0.50
Width of Pad (W):	26.50 ft
Length of Pad (L):	26.50 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)
Tower Center from Mat Center:	0.00 ft
Depth Below Ground Surface to Water Table:	9.50 ft
Unit Weight of Concrete:	150.0 pcf
Unit Weight of Soil Above Water Table:	150.0 pcf
Unit Weight of Water:	62.4 pcf
Unit Weight of Soil Below Water Table:	60.0 pcf
Friction Angle of Uplift:	15.0 Degrees
Ultimate Coefficient of Shear Friction:	0.35
Ultimate Compressive Bearing Pressure:	20000.0 psf
Ultimate Passive Pressure on Pad Face:	500.0 psf
$\phi_{\text{Soil and Concrete Weight}}$:	0.9
ϕ_{Soil} :	0.75

Overtuning Moment Usage

Design OTM: 4113.3 k-ft
 OTM Resistance: 10065.6 k-ft
 Design OTM / OTM Resistance: 0.41 Result: OK

Soil Bearing Pressure Usage

Net Bearing Pressure: 1949 psf
 Factored Nominal Bearing Pressure: 15000 psf
 Net Bearing Pressure/Factored Nominal Bearing Pressure: 0.13 Result: OK
 Load Direction Controlling Design Bearing Pressure: Diagonal to Pad Edge

Sliding Factor of Safety

Total Factored Sliding Resistance: 233.3 k
 Sliding Design / Sliding Resistance: 0.18 Result: OK

Exhibit 4



Radio Frequency Emissions Analysis Report

AT&T Existing Facility

Site ID: CT2103

FA#: 100035073

Westport South
19 - 20 Post Office Lane
Westport, CT 06880

April 27, 2018

Centerline Communications Project Number: 950006-116

Site Compliance Summary	
Compliance Status:	COMPLIANT
Site total MPE% of FCC general population allowable limit:	19.58 %



April 27, 2018

AT&T Mobility – New England
Attn: John Benedetto, RF Manager
550 Cochituate Road
Suite 550 – 13&14
Framingham, MA 06040

Emissions Analysis for Site: **CT2103 – Westport South**

Centerline Communications, LLC (“Centerline”) was directed to analyze the proposed AT&T facility located at **19 - 20 Post Office Lane, Westport, CT**, for the purpose of determining whether the emissions from the Proposed AT&T Antenna Installation located on this property are within specified federal limits.

All information used in this report was analyzed as a percentage of current Maximum Permissible Exposure (% MPE) as listed in the FCC OET Bulletin 65 Edition 97-01 and ANSI/IEEE Std C95.1. The FCC regulates Maximum Permissible Exposure in units of microwatts per square centimeter ($\mu\text{W}/\text{cm}^2$). The number of $\mu\text{W}/\text{cm}^2$ calculated at each sample point is called the power density. The exposure limit for power density varies depending upon the frequencies being utilized. Wireless Carriers and Paging Services use different frequency bands each with different exposure limits, therefore it is necessary to report results and limits in terms of percent MPE rather than power density.

All results were compared to the FCC (Federal Communications Commission) radio frequency exposure rules, 47 CFR 1.1307(b)(1) – (b)(3), to determine compliance with the Maximum Permissible Exposure (MPE) limits for General Population/Uncontrolled environments as defined below.

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

Population exposure to radio frequencies is regulated and enforced in units of microwatts per square centimeter ($\mu\text{W}/\text{cm}^2$). The general population exposure limits for the 700 and 850 MHz Bands are approximately $467 \mu\text{W}/\text{cm}^2$ and $567 \mu\text{W}/\text{cm}^2$ respectively. The general population exposure limit for the 1900 MHz (PCS), 2100 MHz (AWS) and 2300 MHz (WCS) bands is $1000 \mu\text{W}/\text{cm}^2$. Because each carrier will be using different frequency bands, and each frequency band has different exposure limits, it is necessary to report percent of MPE rather than power density.



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

Additional details can be found in FCC OET 65.



CALCULATIONS

Calculations were performed for the proposed AT&T Wireless antenna facility located at **19 - 20 Post Office Lane, Westport, CT**, using the equipment information listed below. All calculations were performed per the specifications under FCC OET 65. Since AT&T is proposing highly focused directional panel antennas, which project most of the emitted energy out toward the horizon, all calculations were performed assuming a lobe representing the maximum gain of the antenna per the antenna manufactures supplied specifications, minus 10 dB, was focused at the base of the tower. For this report the sample point is the top of a 6-foot person standing at the base of the tower.

Per FCC OET Bulletin No. 65 - Edition 97-01 recommendations to achieve the maximum anticipated value at each sample point, all power levels emitting from the proposed antenna installation are increased by a factor of 2.56 to account for possible in-phase reflections from the surrounding environment. All power values expressed and analyzed are maximum power levels expected to be used on all radios.

All emissions values for additional carriers were taken from the Connecticut Siting Council (CSC) active MPE database. Values in this database are provided by the individual carriers themselves

For each sector the following channel counts, frequency bands and power levels were utilized as shown in *Table 1*:

Technology	Frequency Band	Channel Count	Transmit Power per Channel (W)
UMTS	850 MHz	2	30
LTE	2300 MHz (WCS)	4	30
LTE	700 MHz	2	40
LTE	1900 MHz (PCS)	4	40

Table 1: Channel Data Table



The following antennas listed in *Table 2* were used in the modeling for transmission in the 700 MHz, 850 MHz, 1900 MHz (PCS) and 2300 MHz (WCS) frequency bands. This is based on feedback from the carrier with regards to anticipated antenna selection. Maximum gain values for all antennas are listed in the Inventory and Power Data table below. The maximum gain of the antenna per the antenna manufactures supplied specifications, minus 10 dB, was used for all calculations. This value is a very conservative estimate as gain reductions for these particular antennas are typically much higher in this direction.

Sector	Antenna Number	Antenna Make / Model	Antenna Centerline (ft)
A	1	Powerwave 7770	131
A	2	Quintel QS66512-2	131
A	3	CCI HPA-65R-BUU-H6	131
B	1	Powerwave 7770	131
B	2	Quintel QS66512-2	131
B	3	CCI HPA-65R-BUU-H6	131
C	1	Powerwave 7770	131
C	2	Quintel QS66512-2	131
C	3	CCI HPA-65R-BUU-H6	131

Table 2: Antenna Data

All calculations were done with respect to uncontrolled / general population threshold limits.



RESULTS

Per the calculations completed for the proposed AT&T configurations *Table 3* shows resulting emissions power levels and percentages of the FCC’s allowable general population limit.

Antenna ID	Antenna Make / Model	Frequency Bands	Antenna Gain (dBd)	Channel Count	Total TX Power (W)	ERP (W)	MPE %
Antenna A1	Powerwave 7770	850 MHz	11.4	2	60	828.23	0.34
Antenna A2	Quintel QS66512-2	2300 MHz (WCS)	14.85	4	120	3,665.91	0.84
Antenna A3	CCI HPA-65R-BUU-H6	700 MHz / 1900 MHz (PCS)	11.95 / 14.75	6	240	6,030.01	1.72
Sector A Composite MPE%							2.90
Antenna B1	Powerwave 7770	850 MHz	11.4	2	60	828.23	0.34
Antenna B2	Quintel QS66512-2	2300 MHz (WCS)	14.85	4	120	3,665.91	0.84
Antenna B3	CCI HPA-65R-BUU-H6	700 MHz / 1900 MHz (PCS)	11.95 / 14.75	6	240	6,030.01	1.72
Sector B Composite MPE%							2.90
Antenna C1	Powerwave 7770	850 MHz	11.4	2	60	828.23	0.34
Antenna C2	Quintel QS66512-2	2300 MHz (WCS)	14.85	4	120	3,665.91	0.84
Antenna C3	CCI HPA-65R-BUU-H6	700 MHz / 1900 MHz (PCS)	11.95 / 14.75	6	240	6,030.01	1.72
Sector C Composite MPE%							2.90

Table 3: AT&T Emissions Levels



The Following table (*table 4*) shows all additional carriers on site and their MPE% as recorded in the CSC active MPE database for this facility along with the newly calculated maximum AT&T MPE contributions per this report. FCC OET 65 specifies that for carriers utilizing directional antennas that the highest recorded sector value be used for composite site MPE values due to their greatly reduced emissions contributions in the directions of the adjacent sectors. For this site, all three sectors have the same configuration yielding the same results on all three sectors. *Table 5* below shows a summary for each AT&T Sector as well as the composite MPE value for the site.

Site Composite MPE%	
Carrier	MPE%
AT&T – Max Sector Value	2.90 %
Verizon Wireless	5.88 %
MetroPCS	1.24 %
T-Mobile	5.70 %
Clearwire	0.08 %
Sprint	3.78 %
Enertrac (Receive Only)	0.00 %
Site Total MPE %:	19.58 %

Table 4: All Carrier MPE Contributions

AT&T Sector A Total:	2.90 %
AT&T Sector B Total:	2.90 %
AT&T Sector C Total:	2.90 %
Site Total:	19.58 %

Table 5: Site MPE Summary



FCC OET 65 specifies that for carriers utilizing directional antennas that the highest recorded sector value be used for composite site MPE values due to their greatly reduced emissions contributions in the directions of the adjacent sectors. *Table 6* below details a breakdown by frequency band and technology for the MPE power values for the maximum calculated AT&T sector(s). For this site, all three sectors have the same configuration yielding the same results on all three sectors.

AT&T _ Frequency Band / Technology Max Power Values (Per Sector)	# Channels	Watts ERP (Per Channel)	Height (feet)	Total Power Density ($\mu\text{W}/\text{cm}^2$)	Frequency (MHz)	Allowable MPE ($\mu\text{W}/\text{cm}^2$)	Calculated % MPE
AT&T 850 MHz UMTS	2	414.12	131	1.91	850 MHz	567	0.34%
AT&T 2300 MHz (WCS) LTE	4	916.48	131	8.43	2300 MHz (WCS)	1000	0.84%
AT&T 700 MHz LTE	2	626.70	131	2.88	700 MHz	467	0.62%
AT&T 1900 MHz (PCS) LTE	4	1,194.15	131	10.99	1900 MHz (PCS)	1000	1.10%
						Total:	2.90%

Table 6: AT&T Maximum Sector MPE Power Values



Summary

All calculations performed for this analysis yielded results that were **within** the allowable limits for general population exposure to RF Emissions.

The anticipated maximum composite contributions from the AT&T facility as well as the site composite emissions value with regards to compliance with FCC's allowable limits for general population exposure to RF Emissions are shown here:

AT&T Sector	Power Density Value (%)
Sector A:	2.90 %
Sector B:	2.90 %
Sector C:	2.90 %
AT&T Maximum Total (per sector):	2.90 %
Site Total:	19.58 %
Site Compliance Status:	COMPLIANT

The anticipated composite MPE value for this site assuming all carriers present is **19.58 %** of the allowable FCC established general population limit sampled at the ground level. This is based upon values listed in the Connecticut Siting Council database for existing carrier emissions.

FCC guidelines state that if a site is found to be out of compliance (over allowable thresholds), that carriers over a 5% contribution to the composite value will require measures to bring the site into compliance. For this facility, the composite values calculated were well within the allowable 100% threshold standard per the federal government.

A handwritten signature in black ink, appearing to read 'Scott Heffernan', is positioned above the printed name.

Scott Heffernan

RF Engineering Director

Centerline Communications, LLC

95 Ryan Drive, Suite 1

Raynham, MA 02767

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY																
<ul style="list-style-type: none"> Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 	<p>A. Signature <input checked="" type="checkbox"/> Agent <input checked="" type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) _____ C. Date of Delivery _____</p>																
<p>1. Article Addressed to:</p> <p>Mr. James Marpe First Selectman 110 Myrtle Ave. Rm. 310 Westport, CT 06880</p>  <p>9590 9402 3535 7305 4992 32</p>	<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p>																
<p>2. Article Number (Transfer from service label)</p> <p>7016 3010 0000 7829 1452</p>	<p>3. Service Type</p> <table border="0"> <tr> <td><input type="checkbox"/> Adult Signature</td> <td><input type="checkbox"/> Priority Mail Express®</td> </tr> <tr> <td><input type="checkbox"/> Adult Signature Restricted Delivery</td> <td><input type="checkbox"/> Registered Mail™</td> </tr> <tr> <td><input checked="" type="checkbox"/> Certified Mail®</td> <td><input type="checkbox"/> Registered Mail Restricted Delivery</td> </tr> <tr> <td><input type="checkbox"/> Certified Mail Restricted Delivery</td> <td><input type="checkbox"/> Return Receipt for Merchandise</td> </tr> <tr> <td><input type="checkbox"/> Collect on Delivery</td> <td><input type="checkbox"/> Signature Confirmation™</td> </tr> <tr> <td><input type="checkbox"/> Collect on Delivery Restricted Delivery</td> <td><input type="checkbox"/> Signature Confirmation Restricted Delivery</td> </tr> <tr> <td><input type="checkbox"/> Insured Mail</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)</td> <td></td> </tr> </table>	<input type="checkbox"/> Adult Signature	<input type="checkbox"/> Priority Mail Express®	<input type="checkbox"/> Adult Signature Restricted Delivery	<input type="checkbox"/> Registered Mail™	<input checked="" type="checkbox"/> Certified Mail®	<input type="checkbox"/> Registered Mail Restricted Delivery	<input type="checkbox"/> Certified Mail Restricted Delivery	<input type="checkbox"/> Return Receipt for Merchandise	<input type="checkbox"/> Collect on Delivery	<input type="checkbox"/> Signature Confirmation™	<input type="checkbox"/> Collect on Delivery Restricted Delivery	<input type="checkbox"/> Signature Confirmation Restricted Delivery	<input type="checkbox"/> Insured Mail		<input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)	
<input type="checkbox"/> Adult Signature	<input type="checkbox"/> Priority Mail Express®																
<input type="checkbox"/> Adult Signature Restricted Delivery	<input type="checkbox"/> Registered Mail™																
<input checked="" type="checkbox"/> Certified Mail®	<input type="checkbox"/> Registered Mail Restricted Delivery																
<input type="checkbox"/> Certified Mail Restricted Delivery	<input type="checkbox"/> Return Receipt for Merchandise																
<input type="checkbox"/> Collect on Delivery	<input type="checkbox"/> Signature Confirmation™																
<input type="checkbox"/> Collect on Delivery Restricted Delivery	<input type="checkbox"/> Signature Confirmation Restricted Delivery																
<input type="checkbox"/> Insured Mail																	
<input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)																	
<p>PS Form 3811, July 2015 PSN 7530-02-000-9053 Domestic Return Receipt</p>																	

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT *CP113*
Domestic Mail Only

For delivery information, visit our website at www.usps.com

OFFICIAL RECEIPT

Certified Mail Fee	\$3.45
Extra Services & Fees (check box, add fees to total)	\$2.75
<input type="checkbox"/> Return Receipt (hardcopy)	\$0.00
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00
Postage	\$2.47
Total Postage and Fees	\$8.67

Sent To: Mr. James Marpe, First Selectman
110 Myrtle Avenue, Room 310
Westport, CT 06880

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

Postmark Here: 05/03/2018

Stamp: BILLERICA POST OFFICE 06821 CT

Vertical Text: 7016 3010 0000 7829 1452

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY																
<ul style="list-style-type: none"> ■ Complete items 1, 2, and 3. ■ Print your name and address on the reverse so that we can return the card to you. ■ Attach this card to the back of the mailpiece, or on the front if space permits. 	<p>A. Signature  <input type="checkbox"/> Agent <input checked="" type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) _____ C. Date of Delivery _____</p>																
<p>1. Article Addressed to:</p> <p>Ms. Mary Young, Planning and Zoning 110 Myrtle Avenue, Room 203 Westport, CT 06880</p>	<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p>																
 9590 9402 3535 7305 4992 25	<p>3. Service Type</p> <table border="0"> <tr> <td><input type="checkbox"/> Adult Signature</td> <td><input type="checkbox"/> Priority Mail Express®</td> </tr> <tr> <td><input type="checkbox"/> Adult Signature Restricted Delivery</td> <td><input type="checkbox"/> Registered Mail™</td> </tr> <tr> <td><input checked="" type="checkbox"/> Certified Mail®</td> <td><input type="checkbox"/> Registered Mail Restricted Delivery</td> </tr> <tr> <td><input type="checkbox"/> Certified Mail Restricted Delivery</td> <td><input type="checkbox"/> Return Receipt for Merchandise</td> </tr> <tr> <td><input type="checkbox"/> Collect on Delivery</td> <td><input type="checkbox"/> Signature Confirmation™</td> </tr> <tr> <td><input type="checkbox"/> Collect on Delivery Restricted Delivery</td> <td><input type="checkbox"/> Signature Confirmation Restricted Delivery</td> </tr> <tr> <td><input type="checkbox"/> Insured Mail</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)</td> <td></td> </tr> </table>	<input type="checkbox"/> Adult Signature	<input type="checkbox"/> Priority Mail Express®	<input type="checkbox"/> Adult Signature Restricted Delivery	<input type="checkbox"/> Registered Mail™	<input checked="" type="checkbox"/> Certified Mail®	<input type="checkbox"/> Registered Mail Restricted Delivery	<input type="checkbox"/> Certified Mail Restricted Delivery	<input type="checkbox"/> Return Receipt for Merchandise	<input type="checkbox"/> Collect on Delivery	<input type="checkbox"/> Signature Confirmation™	<input type="checkbox"/> Collect on Delivery Restricted Delivery	<input type="checkbox"/> Signature Confirmation Restricted Delivery	<input type="checkbox"/> Insured Mail		<input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)	
<input type="checkbox"/> Adult Signature	<input type="checkbox"/> Priority Mail Express®																
<input type="checkbox"/> Adult Signature Restricted Delivery	<input type="checkbox"/> Registered Mail™																
<input checked="" type="checkbox"/> Certified Mail®	<input type="checkbox"/> Registered Mail Restricted Delivery																
<input type="checkbox"/> Certified Mail Restricted Delivery	<input type="checkbox"/> Return Receipt for Merchandise																
<input type="checkbox"/> Collect on Delivery	<input type="checkbox"/> Signature Confirmation™																
<input type="checkbox"/> Collect on Delivery Restricted Delivery	<input type="checkbox"/> Signature Confirmation Restricted Delivery																
<input type="checkbox"/> Insured Mail																	
<input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)																	
<p>7016 3010 0000 7829 1476</p>																	
<p>PS Form 3811, July 2015 PSN 7530-02-000-9053</p>	<p>Domestic Return Receipt</p>																

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com

WESTPORT CT 06880

Certified Mail Fee	\$3.45
Extra Services & Fees (check box, add fee as appropriate)	\$2.75
<input type="checkbox"/> Return Receipt (hardcopy)	\$0.00
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00
Postage	\$2.68
Total Postage and Fees	\$8.88

Sent To: **Ms. Mary Young, Planning and Zoning**
Street and Apt. No., or P.O.: **110 Myrtle Avenue, Room 203**
City, State, ZIP+4®: **Westport, CT 06880**

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7016 3010 0000 7829 1476

WESTPORT POST OFFICE
 MAY 9 2018
 05/03/2018
 BILLED TO A 01821

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
 - Print your name and address on the reverse so that we can return the card to you.
- or on the back of the mailpiece, if applicable.

1. Article Addressed to:

Mr. Steve Smith, Building Official
515 Post Road East, 2nd Floor
Westport, CT 06880



9590 9402 3535 7305 4992 18

2. Article Number (Transfer from carrier label)

7016 3010 0000 7829 1469

COMPLETE THIS SECTION ON DELIVERY

- A. Signature Agent
Michael Inafra Addressee
- B. Received by (Printed Name) _____ C. Date of Delivery *5/6/18*
- D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

3. Service Type
- Adult Signature
 - Adult Signature Restricted Delivery
 - Certified Mail®
 - Certified Mail Restricted Delivery
 - Collect on Delivery
 - Collect on Delivery Restricted Delivery
 - Insured Mail
 - Insured Mail Restricted Delivery (over \$500)
 - Priority Mail Express®
 - Registered Mail™
 - Registered Mail Restricted Delivery
 - Return Receipt for Merchandise
 - Signature Confirmation™
 - Signature Confirmation Restricted Delivery

PS Form 3811, July 2015 PSN 7530-02-000-9053

Domestic Return Receipt

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT (72103)
Domestic Mail Only

For delivery information, visit our website at www.usps.com

WESTPORT, CT 06880

Certified Mail Fee \$3.45

- Extra Services & Fees (check box, add fee if appropriate)
- Return Receipt (hardcopy) \$0.75
 - Return Receipt (electronic) \$0.00
 - Certified Mail Restricted Delivery \$0.00
 - Adult Signature Required \$0.00
 - Adult Signature Restricted Delivery \$0.00

Postage \$2.68

Total Postage and Fees \$8.88

Sent To

Street and Apt. No. or PO Box No.

City, State, ZIP+4

*Steve Smith Bldg. Off.
515 Post Rd. East
Westport CT 06880*



PS Form 3800, April 2015 PSN 7530-02-000-9047

See Reverse for Instructions

7016 3010 0000 7829 1469

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Mr. Shawn Dunn, APM
American Tower Corp.
10 Presidential Way
Woburn, MA 01801



9590 9402 3535 7305 4992 49

Article Number (transfer from service label)
7016 3010 0000 7829 1445

COMPLETE THIS SECTION ON DELIVERY

A. Signature

Shawn Dunn

Agent

Addressee

B. Received by (Printed Name)

Archi

C. Date of Delivery

5-8

D. Is delivery address different from item 1? Yes
if YES, enter delivery address below: No

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Insured Mail
- Insured Mail Restricted Delivery (over \$500)

- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Return Receipt for Merchandise
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

Domestic Return Receipt

PS Form 3811, July 2015 PSN 7530-02-000-9053

USPS Tracking®

FAQs > (<http://faq.usps.com/?articleId=220900>)

Track Another Package +

Tracking Number: 70163010000078291445

Remove X

Your item has been delivered to the mail room at 11:09 am on May 8, 2018 in WOBURN, MA 01801.

Delivered

May 8, 2018 at 11:09 am
Delivered, To Mail Room
WOBURN, MA 01801

Get Updates v

Text & Email Updates

Tracking History

Product Information

7016 3010 0000 7829 1445

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com.

WOBURN, MA 01801

Certified Mail Fee \$3.45

Extra Services & Fees (total box and fee for box only)

<input type="checkbox"/> Return Receipt (hardcopy)	\$1.00
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00

Postage \$2.47

Total Postage and Fee \$8.67

Sent To
Mr. Shawn Dunn, APIM
American Tower Corp.
10 Presidential Way
Woburn, MA 01801

Street and Apt. No., or PO Box
City, State, ZIP+4®

PS Form 3800, April 2015 PSN 7530-02-000-9000 See Reverse for Instructions

See Less v

USPS Tracking®

FAQs > (<http://faq.usps.com/?articleId=220900>)

Track Another Package +

Tracking Number: 7017145000179263081

Remove X

On Time

Expected Delivery on

MONDAY

14 MAY 2018 ^{by} **8:00pm**

Available for Pickup

May 14, 2018 at 7:58 am
Available for Pickup
WESTPORT, CT 06881

Get Updates ▾

7017 1450 0001 7926 3081

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com.

WESTPORT, CT 06881

Certified Mail Fee	\$3.45
Extra Services & Fees (check box, add fee as appropriate)	\$2.75
<input type="checkbox"/> Return Receipt (hardcopy)	\$0.00
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00
Postage	\$3.31
Total Postage and Fees	\$9.51

Postmark Here
MAY 11 2018
NORTH BELLERICA MA 01862

Sent To: Mr. Jay Sherwood
Street and Apt. No., or PO: P.O. Box 48
City, State, ZIP+4®: Westport, CT 06881

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

Text & Email Updates ▾

Tracking History ▾

Product Information ▾

See Less ^