



QC Development

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January 18, 2017

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

Notice of Exempt Modification – New Cingular Wireless PCS, LLC (AT&T) – CT1288
38 Maple Street, Kent, CT 06757
N 41-43-18.85
W 73-28-29.87

Dear Ms. Bachman:

AT&T currently maintains nine (9) antennas at the 140-foot level of the existing 150-foot Monopole at 38 Maple Street, Kent, CT. The tower is owned by American Tower. The property is owned by the Town of Kent. AT&T now intends to replace three (3) of its existing Ericsson remote radio units (RRUS-11) with three (3) Ericsson RRUS-32 B2 units.

This facility was approved by the Connecticut Siting Council in Docket # 0353 on April 24, 2008. This approval included the condition that the tower height not exceed 150 feet. No increase in tower height is proposed, and this modification therefore complies with the aforementioned approval.

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies § 16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to Bruce K. Adams, First Selectman for the Town of Kent and the Kent Land Use Department as well as the property owner and the tower owner.

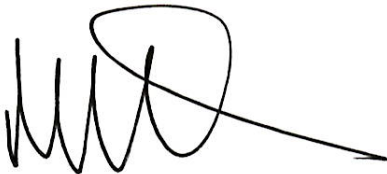
The planned modifications to the facility fall squarely within those activities explicitly provided for in R.C.S.A. § 16-50j-72(b)(2).

1. The proposed modifications will not result in an increase in the height of the existing structure.
2. The proposed modifications will not require the extension of the site boundary.
3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
4. The operation of the replacement antennas will not increase radio frequency emissions at the facility to a level at or above the Federal Communications Commission safety standard.
5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
6. The existing structure and its foundation can support the proposed loading.

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

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

Sincerely,

A handwritten signature in black ink, consisting of several vertical strokes followed by a large, circular flourish and a long horizontal line extending to the right.

Mark Roberts
QC Development
Consultant for AT&T

Attachments

cc: Bruce K. Adams - elected official and property owner (via e-mail)
Donna Hayes – Land Use Administrator (via e-mail)
American Tower - tower owner (via e-mail)

Power Density

Existing Loading on Tower

Carrier	# of Channels	ERP/Ch (W)	Antenna Centerline Height (ft)	Power Density (mW/cm ²)	Freq. Band (MHz ^{**})	Limit S (mW/cm ²)	%MPE
Other Carriers*							2.49%
AT&T GSM	1	296	140	0.0059	880	0.5867	0.10%
AT&T UMTS	2	500	140	0.0200	880	0.5867	0.34%
AT&T UMTS	1	500	140	0.0100	1900	1.0000	0.10%
AT&T LTE	1	500	140	0.0100	700	0.4667	0.21%
AT&T LTE	1	500	140	0.0100	2100	1.0000	0.10%
Site Total							3.35%

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

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

Proposed Loading on Tower

Carrier	# of Channels	ERP/Ch (W)	Antenna Centerline Height (ft)	Power Density (mW/cm ²)	Freq. Band (MHz ^{**})	Limit S (mW/cm ²)	%MPE
Other Carriers*							2.49%
AT&T GSM	1	325	140	0.0065	880	0.5867	0.11%
AT&T UMTS	2	325	140	0.0130	880	0.5867	0.22%
AT&T UMTS	1	425	140	0.0085	1900	1.0000	0.09%
AT&T LTE	1	1476	140	0.0296	700	0.4667	0.63%
AT&T LTE	1	2421	140	0.0970	1900	1.0000	0.97%
Site Total							4.51%

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

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

GENERAL NOTES:

- FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:
PROJECT MANAGEMENT - SAI COMMUNICATIONS, INC.
CONTRACTOR - GENERAL CONTRACTOR (CONSTRUCTION)
OWNER - AT&T MOBILITY
OEM - ORIGINAL EQUIPMENT MANUFACTURER
- PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING CONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF PROJECT MANAGEMENT.
- ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK.
- ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
- DRAWINGS PROVIDED HERE ARE NOT TO SCALE UNLESS OTHERWISE NOTED AND ARE INTENDED TO SHOW OUTLINE ONLY.
- UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
- IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY PROJECT MANAGEMENT.
- CONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND T1 CABLES, GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWING. CONTRACTOR SHALL UTILIZE EXISTING TRAYS AND/OR SHALL ADD NEW TRAYS AS NECESSARY. CONTRACTOR SHALL CONFIRM THE ACTUAL ROUTING WITH PROJECT MANAGEMENT.
- THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
- CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
- CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.
- THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
- CONTRACTOR SHALL NOTIFY DEWBERRY 48 HOURS IN ADVANCE OF POURING CONCRETE, OR BACKFILLING TRENCHES, SEALING ROOF AND WALL PENETRATIONS & POST DOWNS, FINISHING NEW WALLS OR FINAL ELECTRICAL CONNECTIONS FOR ENGINEER REVIEW.
- CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS MUST BE VERIFIED. CONTRACTOR SHALL NOTIFY PROJECT MANAGEMENT OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
- THE EXISTING CELL SITE IS IN FULL COMMERCIAL OPERATION. ANY CONSTRUCTION WORK BY CONTRACTOR SHALL NOT DISRUPT THE EXISTING NORMAL OPERATION. ANY WORK ON EXISTING EQUIPMENT MUST BE COORDINATED WITH LAND LORD. ALSO, WORK SHOULD BE SCHEDULED FOR AN APPROPRIATE MAINTENANCE WINDOW USUALLY IN LOW TRAFFIC PERIODS AFTER MIDDNIGHT.
- SINCE THE CELL SITE IS ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE ADVISED TO BE WORN TO ALERT OF ANY DANGEROUS EXPOSURE LEVELS.

SITE WORK GENERAL NOTES:

- THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
- ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY CONTRACTOR. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO:
A) FALL PROTECTION
B) CONFINED SPACE
C) ELECTRICAL SAFETY
D) TRENCHING & EXCAVATION.
- ALL SITE WORK SHALL BE AS INDICATED ON THE DRAWINGS AND PROJECT SPECIFICATIONS.
- IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES, TOP SOIL AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
- ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF CONTRACTOR, OWNER AND/OR LOCAL UTILITIES.
- CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION.
- THE CONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE AT&T SPECIFICATION FOR SITE SIGNAGE.
- THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE TRANSMISSION EQUIPMENT AND TOWER AREAS.
- NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
- THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION, SEE SOIL COMPACTION NOTES.
- THE AREAS OF THE OWNER'S PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION.
- EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL JURISDICTION'S GUIDELINES FOR EROSION AND SEDIMENT CONTROL.

CONCRETE AND REINFORCING STEEL NOTES:

- ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336, ASTM A184, ASTM A185 AND THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CAST-IN-PLACE CONCRETE.
- ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS, UNLESS NOTED OTHERWISE. A HIGHER STRENGTH (4000 PSI) MAY BE USED. ALL CONCRETING WORK SHALL BE DONE IN ACCORDANCE WITH ACI 318 CODE REQUIREMENTS.
- REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE (UNO). SPLICES SHALL BE CLASS "B" AND ALL HOOKS SHALL BE STANDARD, UNO.
- THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:
CONCRETE CAST AGAINST EARTH.....3 IN.
CONCRETE EXPOSED TO EARTH OR WEATHER:
#6 AND LARGER2 IN.
#5 AND SMALLER & WWF.....1 1/2 IN.
CONCRETE NOT EXPOSED TO EARTH OR WEATHER
OR NOT CAST AGAINST THE GROUND:
SLAB AND WALL3/4 IN.
BEAMS AND COLUMNS.....1 1/2 IN.
- A CHAMFER 3/4" SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNO, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.
- INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR, SHALL BE PER MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL OR ROD SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR CONTRACTOR APPROVAL WHEN DRILLING HOLES IN CONCRETE. SPECIAL INSPECTIONS, REQUIRED BY GOVERNING CODES, SHALL BE PERFORMED IN ORDER TO MAINTAIN MANUFACTURER'S MAXIMUM ALLOWABLE LOADS. ALL EXPANSION/WEDGE ANCHORS SHALL BE STAINLESS STEEL OR HOT DIPPED GALVANIZED. EXPANSION BOLTS SHALL BE PROVIDED BY RAMSET/REDHEAD OR APPROVED EQUAL.
- CONCRETE CYLINDER TEST IS NOT REQUIRED FOR SLAB ON GRADE WHEN CONCRETE IS LESS THAN 50 CUBIC YARDS (IBC 1905.6.2.3) IN THAT EVENT THE FOLLOWING RECORDS SHALL BE PROVIDED BY THE CONCRETE SUPPLIER:
(A) RESULTS OF CONCRETE CYLINDER TESTS PERFORMED AT THE SUPPLIER'S PLANT,
(B) CERTIFICATION OF MINIMUM COMPRESSIVE STRENGTH FOR THE CONCRETE GRADE SUPPLIED.
FOR GREATER THAN 50 CUBIC YARDS THE GC SHALL PERFORM THE CONCRETE CYLINDER TEST.
- AS AN ALTERNATIVE TO ITEM 7, TEST CYLINDERS SHALL BE TAKEN INITIALLY AND THEREAFTER FOR EVERY 50 YARDS OF CONCRETE FROM EACH DIFFERENT BATCH PLANT.
- EQUIPMENT SHALL NOT BE PLACED ON NEW PADS FOR SEVEN DAYS AFTER PAD IS POURED, UNLESS IT IS VERIFIED BY CYLINDER TESTS THAT COMPRESSIVE STRENGTH HAS BEEN ATTAINED.

STRUCTURAL STEEL NOTES:

- ALL STEEL WORK SHALL BE PAINTED OR GALVANIZED IN ACCORDANCE WITH THE DRAWINGS UNLESS NOTED OTHERWISE. STRUCTURAL STEEL SHALL BE ASTM-A-36 UNLESS OTHERWISE NOTED ON THE SITE SPECIFIC DRAWINGS. STEEL DESIGN, INSTALLATION AND BOLTING SHALL BE PERFORMED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) "MANUAL OF STEEL CONSTRUCTION".
- ALL WELDING SHALL BE PERFORMED USING E70XX ELECTRODES AND WELDING SHALL CONFORM TO AISC. WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "MANUAL OF STEEL CONSTRUCTION". PAINTED SURFACES SHALL BE TOUCHED UP.
- BOLTED CONNECTIONS SHALL BE ASTM A325 BEARING TYPE (3/4"Ø) CONNECTIONS AND SHALL HAVE MINIMUM OF TWO BOLTS UNLESS NOTED OTHERWISE.
- NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE 5/8" DIA. ASTM A 307 BOLTS UNLESS NOTED OTHERWISE.
- INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR, SHALL BE PER MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL OR ROD SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR CONTRACTOR APPROVAL WHEN DRILLING HOLES IN CONCRETE. SPECIAL INSPECTIONS, REQUIRED BY GOVERNING CODES, SHALL BE PERFORMED IN ORDER TO MAINTAIN MANUFACTURER'S MAXIMUM ALLOWABLE LOADS. ALL EXPANSION/WEDGE ANCHORS SHALL BE STAINLESS STEEL OR HOT DIPPED GALVANIZED. EXPANSION BOLTS SHALL BE PROVIDED BY RAMSET/REDHEAD OR APPROVED EQUAL.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ENGINEER REVIEW & APPROVAL ON PROJECTS REQUIRING STRUCTURAL STEEL.
- ALL STRUCTURAL STEEL WORK SHALL BE DONE IN ACCORDANCE WITH AISC SPECIFICATIONS.

SOIL COMPACTION NOTES FOR SLAB ON GRADE:

- EXCAVATE AS REQUIRED TO REMOVE VEGETATION & TOPSOIL EXPOSE UNDISTURBED NATURAL SUBGRADE AND PLACE CRUSHED STONE AS REQUIRED.
- COMPACTION CERTIFICATION: AN INSPECTION AND WRITTEN CERTIFICATION BY A QUALIFIED GEOTECHNICAL TECHNICIAN OR ENGINEER IS ACCEPTABLE.
- AS AN ALTERNATIVE TO INSPECTION AND WRITTEN CERTIFICATION, THE "UNDISTURBED SOIL" BASE SHALL BE COMPACTED WITH "COMPACTION EQUIPMENT", LISTED BELOW, TO AT LEAST 90% MODIFIED PROCTOR MAXIMUM DENSITY PER ASTM D 1557 METHOD C.
- COMPACTED SUBBASE SHALL BE UNIFORM & LEVELLED. PROVIDE 6" MINIMUM CRUSHED STONE OR GRAVEL COMPACTED IN 3" LIFTS ABOVE COMPACTED SOIL. GRAVEL SHALL BE NATURAL OR CRUSHED WITH 100% PASSING 1" SIEVE.
- AS AN ALTERNATIVE TO ITEMS 2 AND 3 PROOFFROLL THE SUBGRADE SOILS WITH 5 PASSES OF A MEDIUM SIZED VIBRATORY PLATE COMPACTOR (SUCH AS BOMAG BPR 30/38) OR HAND-OPERATED SINGLE DRUM VIBRATORY ROLLER (SUCH AS BOMAG BW 55E). ANY SOFT AREAS THAT ARE ENCOUNTERED SHOULD BE REMOVED AND REPLACED WITH A WELL-GRADED GRANULAR FILL, AND COMPACTED AS STATED ABOVE.

COMPACTION EQUIPMENT:

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

CONSTRUCTION NOTES:

- FIELD VERIFICATION:
CONTRACTOR SHALL FIELD VERIFY SCOPE OF WORK, AT&T ANTENNA PLATFORM LOCATION AND ANTENNAS TO BE REPLACED.
- COORDINATION OF WORK:
CONTRACTOR SHALL COORDINATE RF WORK AND PROCEDURES WITH PROJECT MANAGEMENT.
- CABLE LADDER RACK:
CONTRACTOR SHALL FURNISH AND INSTALL CABLE LADDER RACK, CABLE TRAY, AND CONDUIT AS REQUIRED TO SUPPORT CABLES TO THE NEW BTS LOCATION.

ELECTRICAL INSTALLATION NOTES:

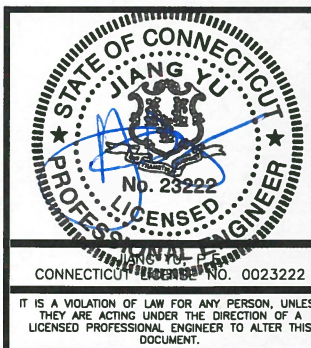
- ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE LOCAL CODES.
- CONTRACTOR SHALL MODIFY EXISTING CABLE TRAY SYSTEM AS REQUIRED TO SUPPORT RF AND TRANSPORT CABLING TO THE NEW BTS EQUIPMENT. CONTRACTOR SHALL SUBMIT MODIFICATIONS TO PROJECT MANAGEMENT FOR APPROVAL.
- CONDUIT ROUTINGS ARE SCHEMATIC. CONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED.
- WIRING, RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC.
- ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC.
- CABLES SHALL NOT BE ROUTED THROUGH LADDER-STYLE CABLE TRAY RUNGS.
- EACH END OF EVERY POWER, POWER PHASE CONDUCTOR (I.E., HOTS), GROUNDING, AND T1 CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2 INCH PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC & OSHA, AND MATCH EXISTING INSTALLATION REQUIREMENTS.
- ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS. ALL EQUIPMENT SHALL BE LABELED WITH THEIR VOLTAGE RATING, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING, AND BRANCH CIRCUIT ID NUMBERS (I.E., PANELBOARD AND CIRCUIT ID'S).
- PANELBOARDS (ID NUMBERS) AND INTERNAL CIRCUIT BREAKERS (CIRCUIT ID NUMBERS) SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS.
- ALL THE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.
- POWER, CONTROL, AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE CONDUCTOR (SIZE 14 AWG OR LARGER), 600V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90°C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.
- POWER PHASE CONDUCTORS (I.E., HOTS) SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2 INCH PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL.) PHASE CONDUCTOR COLOR CODES SHALL CONFORM WITH THE NEC & OSHA AND MATCH EXISTING INSTALLATION REQUIREMENTS.
- SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE CONDUCTOR (SIZE 6 AWG OR LARGER), 600V, OIL RESISTANT THHN OR THWN-2 GREEN INSULATION, CLASS B STRANDED COPPER CABLE RATED FOR 90°C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.
- SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED OUTDOORS, OR BELOW GRADE, SHALL BE SINGLE CONDUCTOR #2 AWG SOLID TINNED COPPER CABLE, UNLESS OTHERWISE SPECIFIED.
- POWER AND CONTROL WIRING, NOT IN TUBING OR CONDUIT, SHALL BE MULTI-CONDUCTOR, TYPE TC CABLE (SIZE 14 AWG OR LARGER), 600V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90°C (WET AND DRY) OPERATION; WITH OUTER JACKET; LISTED OR LABELED FOR THE LOCATION USED, UNLESS OTHERWISE SPECIFIED.
- ALL POWER AND POWER GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WIRENUTS BY THOMAS AND BETTS (OR EQUAL). LUGS AND WIRENUTS SHALL BE RATED FOR OPERATION AT NO LESS THAN 75°C (90°C IF AVAILABLE).
- RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEC, AND NEC.
- NEW RACEWAY OR CABLE TRAY WILL MATCH THE EXISTING INSTALLATION WHERE POSSIBLE.
- ELECTRICAL METALLIC TUBING (EMT) OR RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40, OR RIGID PVC SCHEDULE 80 FOR LOCATIONS SUBJECT TO PHYSICAL DAMAGE) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.
- ELECTRICAL METALLIC TUBING (EMT), ELECTRICAL NONMETALLIC TUBING (ENT), OR RIGID NONMETALLIC CONDUIT (RIGID PVC, SCHEDULE 40) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
- GALVANIZED STEEL INTERMEDIATE METALLIC CONDUIT (IMC) SHALL BE USED FOR OUTDOOR LOCATIONS ABOVE GRADE.
- RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40 OR RIGID PVC SCHEDULE 80) SHALL BE USED UNDERGROUND; DIRECT BURIED, IN AREAS OF OCCASIONAL LIGHT VEHICLE TRAFFIC OR ENCASED IN REINFORCED CONCRETE IN AREAS OF HEAVY VEHICLE TRAFFIC.
- LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
- CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SETSCREW FITTINGS ARE NOT ACCEPTABLE.
- CABINETS, BOXES, AND WIREWAYS SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEC, AND NEC.
- CABINETS, BOXES, AND WIREWAYS TO MATCH THE EXISTING INSTALLATION WHERE POSSIBLE.
- WIREWAYS SHALL BE EPOXY-COATED (GRAY) AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARD; SHALL BE PANDUIT TYPE E (OR EQUAL); AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.
- EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES, AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET STEEL, SHALL MEET OR EXCEED UL 50, AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.
- METAL RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED, OR NON-CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA OS 1; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
- NONMETALLIC RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
- THE CONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM PROJECT MANAGEMENT BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.
- THE CONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD AGAINST LIFE AND PROPERTY.

500 ENTERPRISE DRIVE SUITE 3A
ROCKY HILL, CT 0606727 NORTHWESTERN DRIVE
SALEM, NH 03079CT1288
KENT CT
MAPLE STREET**CONSTRUCTION DRAWINGS**

DATE	ISSUED FOR
01/16/17	ISSUED FOR CONSTRUCTION
01/04/17	ISSUED FOR REVIEW



Dewberry Engineers Inc.

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

CONNECTICUT LICENSE NO. 0023222

DRAWN BY: MR

REVIEWED BY: DER

CHECKED BY: GHN

PROJECT NUMBER: 50055106

JOB NUMBER: 50065685

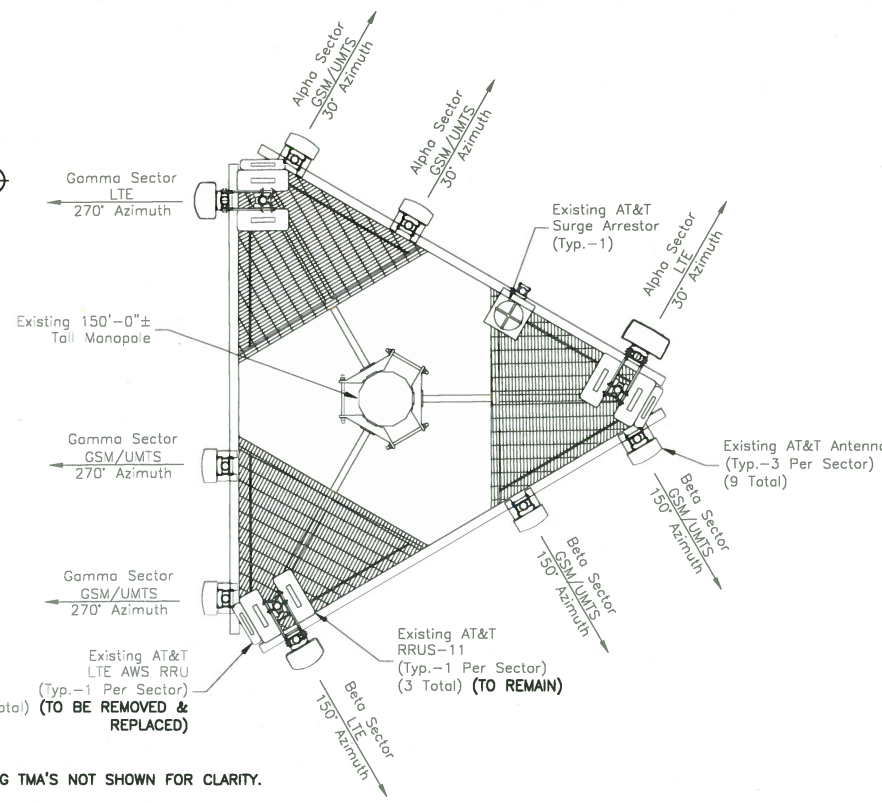
SITE ADDRESS:

38 MAPLE STREET
KENT, CT 06757
LITCHFIELD COUNTY

SHEET TITLE

GENERAL NOTES

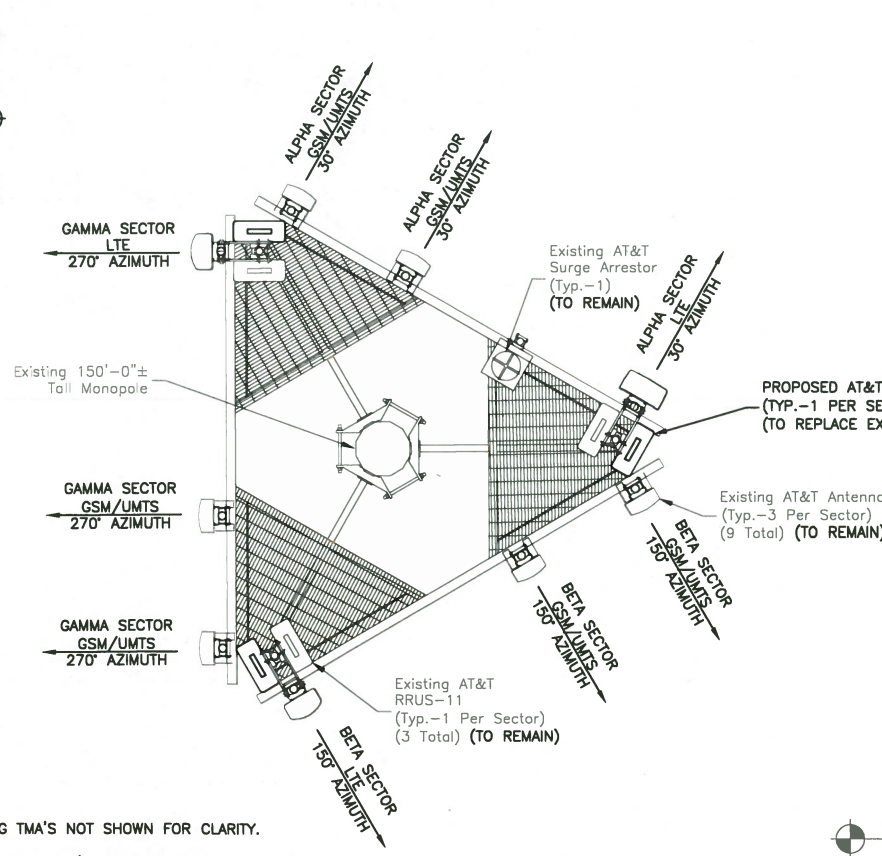
SHEET NUMBER



- NOTES:**
- EXISTING TMA'S NOT SHOWN FOR CLARITY.
 - ALL EXISTING TMA'S ARE TO REMAIN.

EXISTING ANTENNA LAYOUT
SCALE: N.T.S.

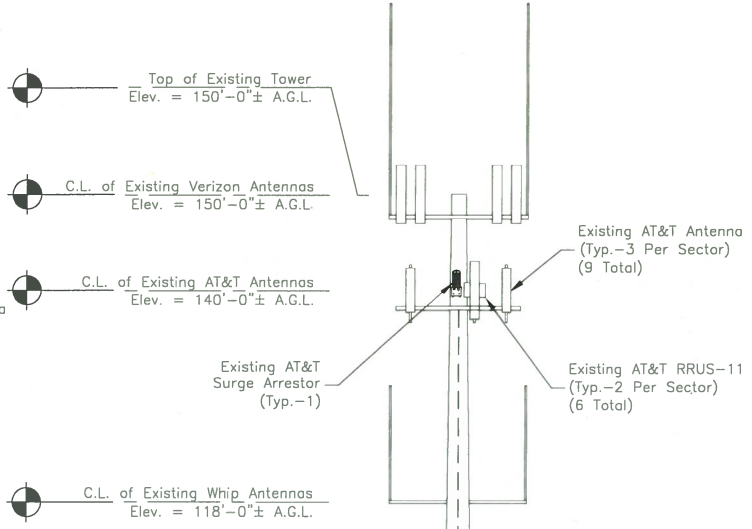
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- NOTES:**
- EXISTING TMA'S NOT SHOWN FOR CLARITY.
 - ALL EXISTING TMA'S ARE TO REMAIN.

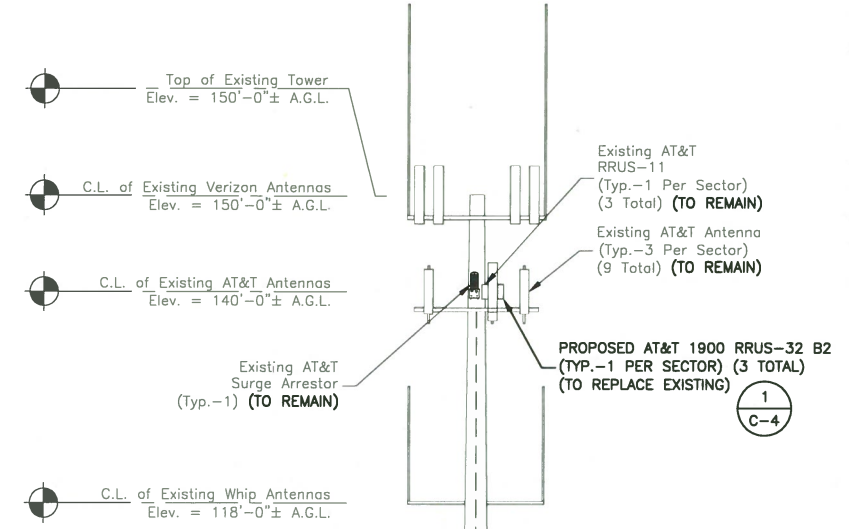
PROPOSED ANTENNA LAYOUT
SCALE: N.T.S.

2



EXISTING SOUTHEAST ELEVATION
SCALE: 1"=20' FOR 11"x17"
1"=10' FOR 22"x34"

3



PROPOSED SOUTHEAST ELEVATION
SCALE: 1"=20' FOR 11"x17"
1"=10' FOR 22"x34"

4

- NOTE:**
- ALL PROPOSED EQUIPMENT, INCLUDING ANTENNAS, COAX, SURGE ARRESTORS, TMA'S, RRU'S, ETC., SHALL BE MOUNTED IN ACCORDANCE WITH THE TOWER STRUCTURAL ANALYSIS BY AMERICAN TOWER CORPORATION DATED JANUARY 9, 2017.



500 ENTERPRISE DRIVE SUITE 3A
ROCKY HILL, CT 06067



27 NORTHWESTERN DRIVE
SALEM, NH 03079

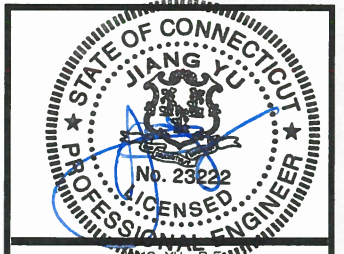
**CT1288
KENT CT
MAPLE STREET**

CONSTRUCTION DRAWINGS

0	01/16/17	ISSUED FOR CONSTRUCTION
A	01/04/17	ISSUED FOR REVIEW



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



CONNECTICUT LICENSE NO. 0023222

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

DRAWN BY: MR

REVIEWED BY: DER

CHECKED BY: GHN

PROJECT NUMBER: 50055106

JOB NUMBER: 50065685

SITE ADDRESS:

38 MAPLE STREET
KENT, CT 06757
LITCHFIELD COUNTY

SHEET TITLE

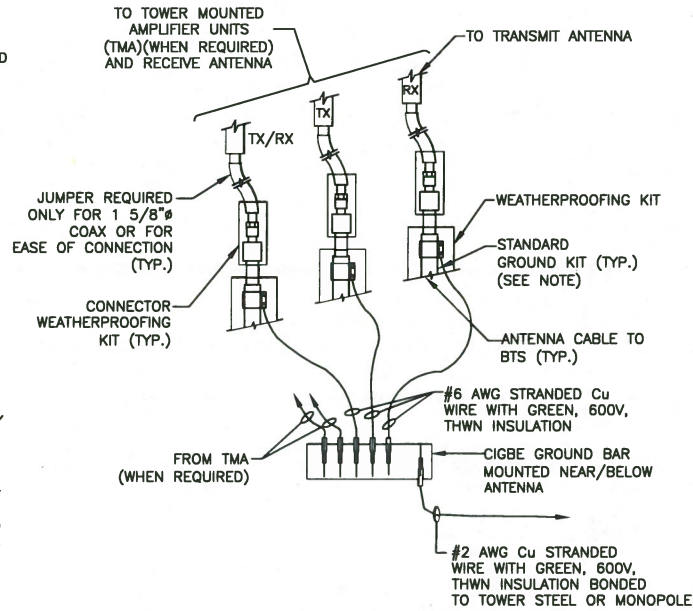
ANTENNA LAYOUTS
& ELEVATIONS

SHEET NUMBER

C-3

GROUNDING NOTES:

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



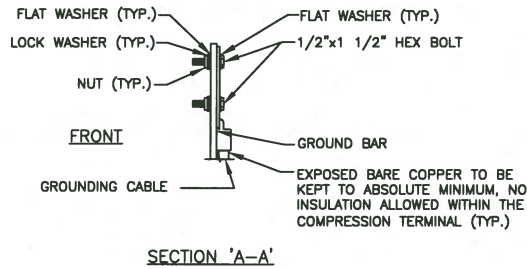
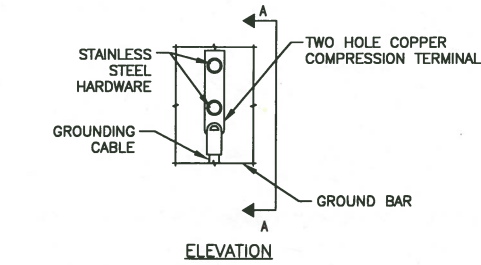
NOTE:

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

CONNECTION OF GROUND WIRES TO GROUNDING BAR (CIGBE)

SCALE: N.T.S.

1



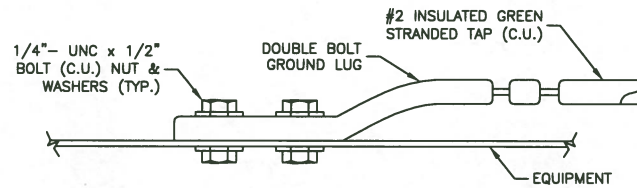
NOTES:

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

TYPICAL GROUND BAR MECHANICAL CONNECTION DETAIL

SCALE: N.T.S.

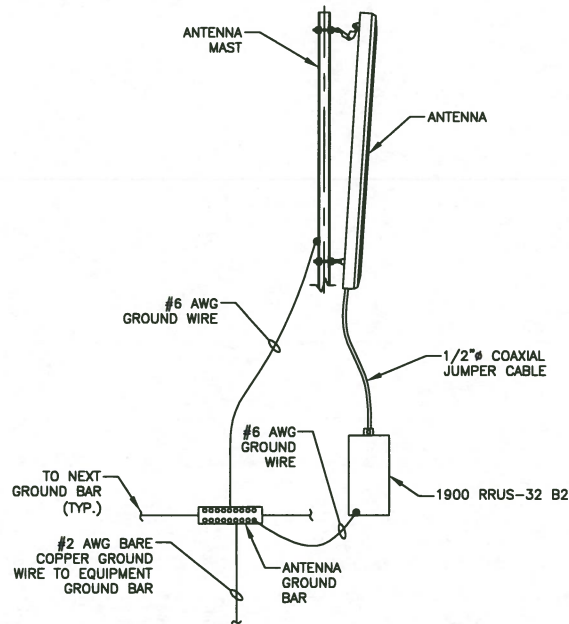
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CONNECTION TO EQUIPMENT DETAIL

SCALE: N.T.S.

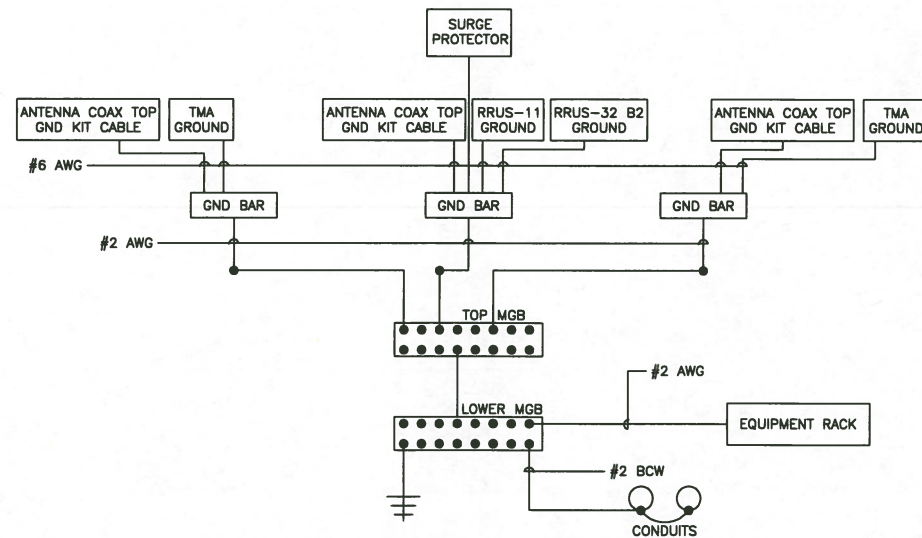
3



TYPICAL ANTENNA GROUNDING DETAIL

SCALE: N.T.S.

4



NOTES:

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

SCHEMATIC GROUNDING DIAGRAM

SCALE: N.T.S.

5



500 ENTERPRISE DRIVE SUITE 3A
ROCKY HILL, CT 06067



27 NORTHWESTERN DRIVE
SALEM, NH 03079

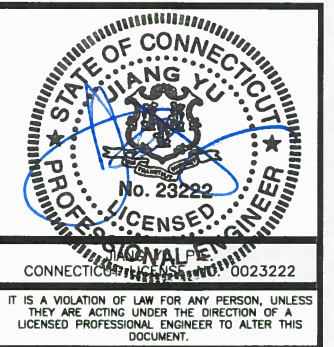
**CT1288
KENT CT
MAPLE STREET**

CONSTRUCTION DRAWINGS

0	01/16/17	ISSUED FOR CONSTRUCTION
A	01/04/17	ISSUED FOR REVIEW



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PARSIPPANY, NJ 07054
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DRAWN BY: MR

REVIEWED BY: DER

CHECKED BY: GHN

PROJECT NUMBER: 50055106

JOB NUMBER: 50065685

SITE ADDRESS:

38 MAPLE STREET
KENT, CT 06757
LITCHFIELD COUNTY

SHEET TITLE

GROUNDING NOTES
& DETAILS

SHEET NUMBER



AMERICAN TOWER®
CORPORATION

Structural Analysis Report

Structure : 149 ft Monopole
ATC Site Name : Kent Pcs CT, CT
ATC Site Number : 413783
Engineering Number : OAA692603_C3_01
Proposed Carrier : AT&T Mobility
Carrier Site Name : Kent Ct Maple Street
Carrier Site Number : CT1288
Site Location : S Kent Rd
Kent, CT 06757-1709
41.721903,-73.474964
County : Litchfield
Date : January 9, 2017
Max Usage : 67%
Result : Pass

Prepared By:
Annika A. Venning, E.I.
Structural Engineer I

Reviewed By:

COA: PEC.0001553



Table of Contents

Introduction	1
Supporting Documents	1
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Existing and Reserved Equipment.....	2
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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 149 ft monopole to reflect the change in loading by AT&T Mobility.

Supporting Documents

Tower Drawings	EEI Project #15320, dated March 18, 2008
Foundation Drawing	EEI Project #15320, dated March 14, 2008
Geotechnical Report	Dr. Clarence Welti Report #15320, dated January 22, 2007

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:	90 mph (3-Second Gust, Vasd) / 115 mph (3-Second Gust, Vult)
Basic Wind Speed w/ Ice:	40 mph (3-Second Gust) w/ 1" radial ice concurrent
Code:	ANSI/TIA-222-G / 2012 IBC / 2016 Connecticut State Building Code
Structure Class:	II
Exposure Category:	C
Topographic Category:	1
Crest Height:	0 ft
Spectral Response:	$S_s = 0.19$, $S_1 = 0.06$
Site Class:	D - Stiff Soil

Conclusion

Based on the analysis results, the structure meets the requirements per the applicable codes listed above. The tower and foundation can support the equipment as described in this report.

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



Existing and Reserved Equipment

Elevation ¹ (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
149.0	159.0	2	RFS Celwave PD220	Low Profile Platform	(3) 7/8" Coax	Other
	152.0	1	3' Yagi			
		3	Antel LPA-185080/12CF			
		3	Antel BXA-70063/6CF			
		6	Antel LPA-80080/6CF			
		1	VZW Unused Reserve: 20,741 sq in			
140.0	140.0	1	Andrew ABT-DFDM-ADB	Low Profile Platform	(18) 1 5/8" Coax (2) 0.78" 8 AWG 6 (1) 0.39" Fiber Trunk	AT&T Mobility
		3	Powerwave TT08-19DB111-001			
		1	Raycap DC6-48-60-18-8F (23.5" Height)			
		3	Ericsson RRUS A2 Module			
		3	Ericsson RRUS-11			
		6	Powerwave P90-15-XLH-RR			
		1	CCI HPA-65R-BUU-H6			
122.0	124.0	2	Decibel DB222	Stand Offs	(3) 7/8" Coax	Other
	123.0	1	3' Yagi			
110.0	110.0	1	Symmetricon 58532A	Pole Mount	(2) 1 5/8" Fiber (1) 1/2" Coax	T-Mobile
		3	Ericsson RRUS 11 B12			
		3	Ericsson RRUS 11 B2			
		3	Ericsson RRUS 11 B4			
		3	RFS APX16DWV-16DWVS-E-A20	T-Arms		
		3	Commscope LNX-6515DS-A1M (50.3 lb)			

Equipment to be Removed

Elevation ¹ (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
140.0	140.0	6	Powerwave TT08-19DB111-001	-	-	AT&T Mobility
		3	Ericsson RRUS-11			
		2	Andrew SBNHH-1D65A			

Proposed Equipment

Elevation ¹ (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
140.0	140.0	6	Powerwave TT19-08BP111-001	Low Profile Platform	-	AT&T Mobility
		3	Ericsson RRUS 32 B2			
		2	Andrew SBNHH-1D65A (33.5 lbs)			

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



Structure Usages

Structural Component	Controlling Usage	Pass/Fail
Anchor Bolts	43%	Pass
Shaft	67%	Pass
Base Plate	49%	Pass

Foundations

Reaction Component	Original Design Reactions	Analysis Reactions	% of Design
Moment (Kips-Ft)	4,897.9	3,663.1	75%
Shear (Kips)	39.5	31.7	80%

The structure base reactions resulting from this analysis are acceptable when compared to those shown on the original structure drawings, therefore no modification or reinforcement of the foundation will be required.

Deflection and Sway*

Antenna Elevation (ft)	Antenna	Carrier	Deflection (ft)	Sway (Rotation) (°)
140.0	Powerwave Allgon TT19-08BP111-001	AT&T Mobility	1.587	1.250
	Ericsson RRUS 32 B2			
	Andrew SBNHH-1D65A (33.5 lbs)			

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



Standard Conditions

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

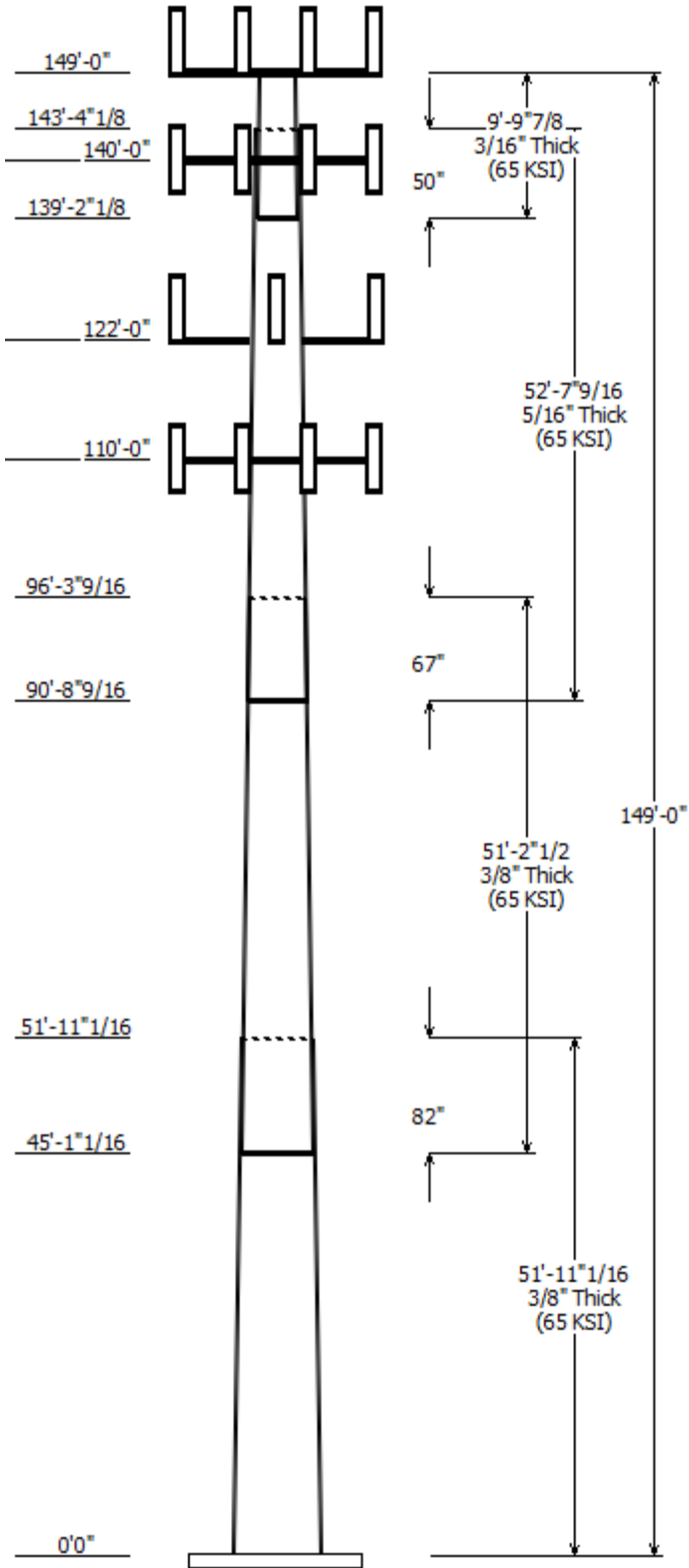
- Information supplied by the client regarding the structure itself, antenna, mounts and feed line loading on the structure and its components, or other relevant information.
- Information from drawings in the possession of American Tower Corporation, or generated by field inspections or measurements of the structure.

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

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

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

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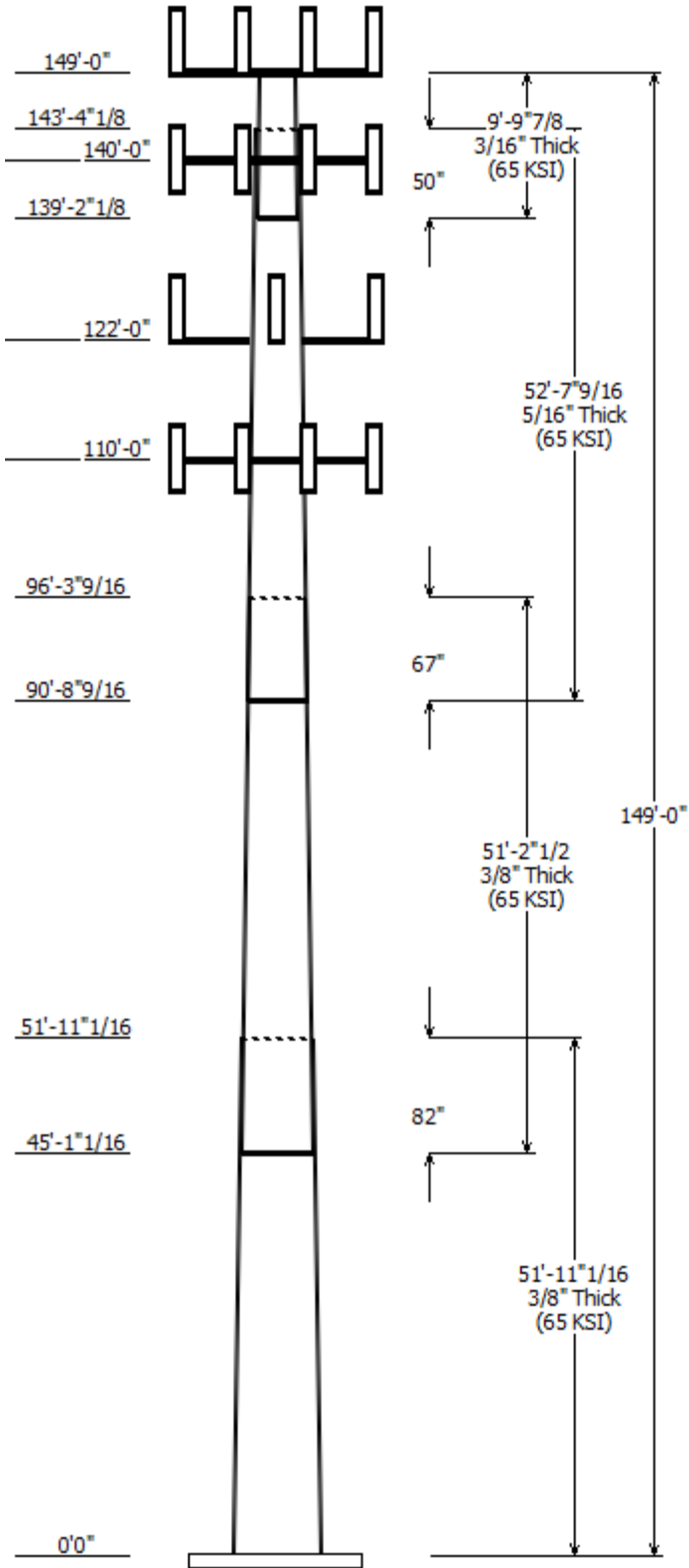


Job Information	
Pole :	413783
Code:	ANSI/TIA-222-G
Description :	ATC413783
Client :	AT&T Mobility
Struct Class :	II
Location :	Kent Pcs CT, CT
Shape :	18 Sides
Exposure :	C
Height :	149.00 (ft)
Topo :	1
Base Elev (ft):	0.00
Taper:	0.241124(in/ft)

Sections Properties								
Shaft Section	Length (ft)	Diameter (in)		Thick (in)	Joint Type	Overlap Length (in)	Taper (in/ft)	Steel Grade (ksi)
		Across Top	Across Bottom					
1	51.920	47.98	60.50	0.375		0.000	0.241100	65
2	51.210	38.03	50.37	0.375	Slip Joint	82.000	0.241100	65
3	52.630	27.31	40.00	0.313	Slip Joint	67.000	0.241100	65
4	9.823	26.32	28.69	0.188	Slip Joint	50.000	0.241100	65

Discrete Appurtenance			
Attach Elev (ft)	Force Elev (ft)	Qty	Description
149.000	152.000	1	VZW Unused Reserve: 20,741
149.000	159.000	2	RFS Celwave PD220
149.000	152.000	3	Amphenol Antel LPA-
149.000	152.000	1	3' Yagi
149.000	152.000	6	Antel LPA-80080/6CF
149.000	152.000	3	Antel BXA-70063/6CF
149.000	149.000	1	Flat Low Profile Platform
140.000	140.000	2	Andrew SBNHH-1D65A (33.5
140.000	140.000	3	Ericsson RRUS 32 B2
140.000	140.000	6	Powerwave Allgon TT19-
140.000	140.000	1	CCI HPA-65R-BUU-H6
140.000	140.000	6	Powerwave Allgon P90-15-
140.000	140.000	1	Raycap DC6-48-60-18-8F (23.5"
140.000	140.000	3	Ericsson RRUS A2 Module
140.000	140.000	3	Ericsson RRUS-11
140.000	140.000	1	Round Low Profile Platform
140.000	140.000	3	Powerwave Allgon TT08-
140.000	140.000	1	Andrew ABT-DFDM-ADB
122.000	122.000	2	Stand Off
122.000	123.000	1	3' Yagi
122.000	124.000	2	Decibel DB222
110.000	110.000	3	Flat T-Arm
110.000	110.000	3	Commscope LNX-6515DS-A1M
110.000	110.000	3	RFS APX16DWV-16DWVS-E-A20
110.000	110.000	3	Ericsson RRUS 11 B2
110.000	110.000	3	Ericsson RRUS 11 B4
110.000	110.000	3	Ericsson RRUS 11 B12
110.000	110.000	1	Symmetricom 58532A

Linear Appurtenance			
Elev (ft) From	To	Description	Exposed To Wind
0.000	110.0	1 5/8" Fiber	No
0.000	110.0	1/2" Coax	No
0.000	122.0	7/8" Coax	No
0.000	140.0	0.39" Fiber Trunk	No
0.000	140.0	0.78" 8 AWG 6	No
0.000	140.0	1 5/8" Coax	No
0.000	149.0	1 5/8" Coax	No
0.000	149.0	7/8" Coax	No

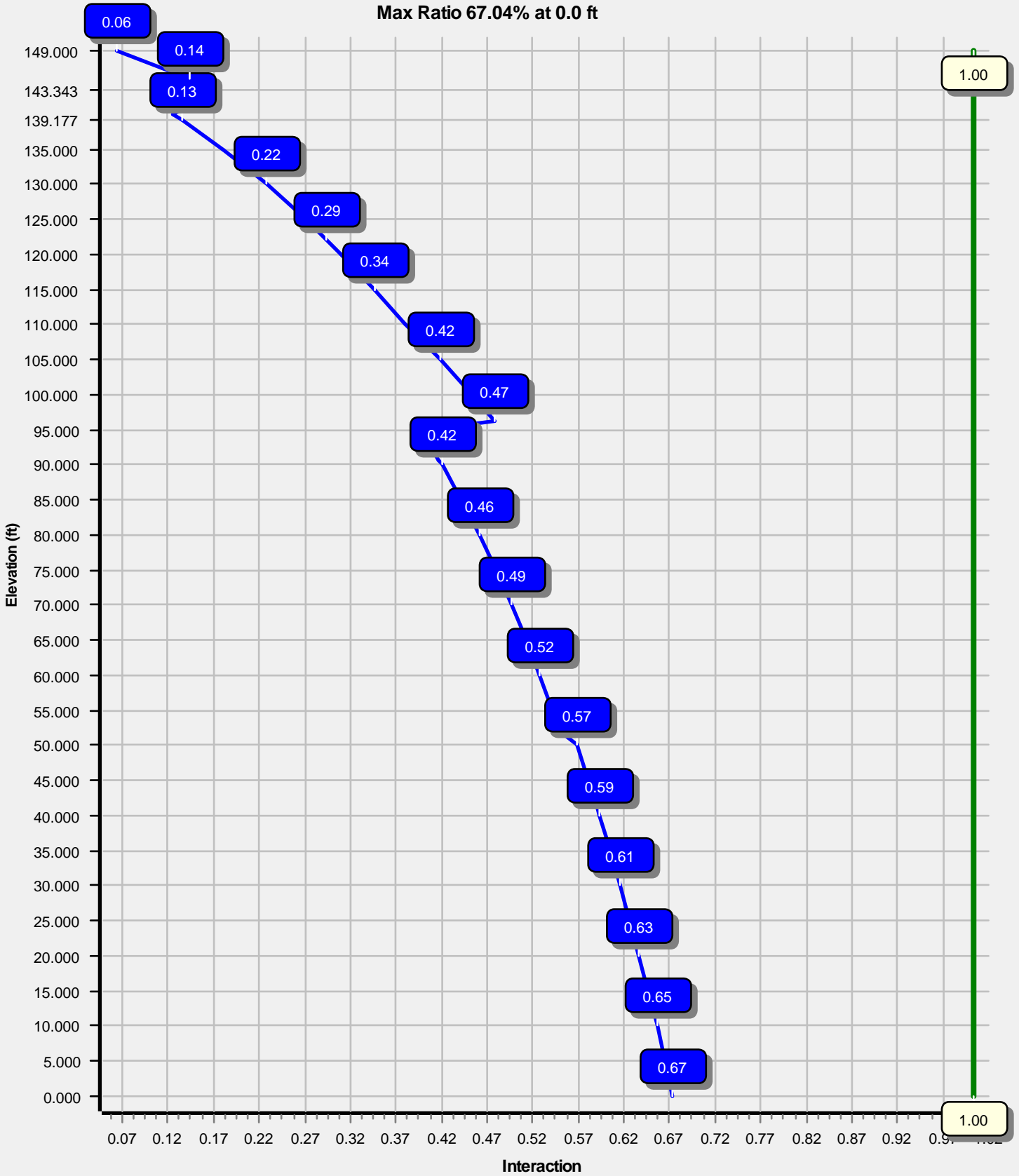


Load Cases	
1.2D + 1.6W	90 mph with No Ice
0.9D + 1.6W	90 mph with No Ice (Reduced DL)
1.2D + 1.0Di + 1.0Wi	40 mph with 1.00 in Radial Ice
(1.2 + 0.2Sds) * DL + E	Seismic Equivalent Lateral Forces Method
(1.2 + 0.2Sds) * DL + E	Seismic Equivalent Modal Analysis Method
(0.9 - 0.2Sds) * DL + E	Seismic (Reduced DL) Equivalent Lateral
(0.9 - 0.2Sds) * DL + E	Seismic (Reduced DL) Equivalent Modal
1.0D + 1.0W	Serviceability 60 mph

Reactions			
Load Case	Moment (kip-ft)	Shear (kip)	Axial (kip)
1.2D + 1.6W	3663.06	31.65	48.20
0.9D + 1.6W	3631.52	31.63	36.14
1.2D + 1.0Di + 1.0Wi	862.97	7.28	82.51
(1.2 + 0.2Sds) * DL + E ELFM	201.51	1.67	48.14
(1.2 + 0.2Sds) * DL + E EMAM	373.55	2.99	48.14
(0.9 - 0.2Sds) * DL + E ELFM	199.46	1.67	33.37
(0.9 - 0.2Sds) * DL + E EMAM	369.46	2.98	33.37
1.0D + 1.0W	1012.52	8.79	40.20

Dish Deflections			
Load Case	Attach Elev (ft)	Deflection (in)	Rotation (deg)
	0.00	0.000	0.000

Load Case : 1.2D + 1.6W
Max Ratio 67.04% at 0.0 ft



Site Number: 413783

Code: ANSI/TIA-222-G

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Site Name: Kent Pcs CT, CT

Engineering Number: OAA692603_C3_01

1/9/2017 12:34:11 PM

Customer: AT&T Mobility

Analysis Parameters

Location:	LITCHFIELD County, CT		
Code:	ANSI/TIA-222-G	Height (ft):	149
Shape:	18 Sides	Base Diameter (in):	60.50
Pole Type:	Taper	Top Diameter (in):	26.32
Pole Manufacturer:		Taper (in/ft) :	0.241

Ice & Wind Parameters

Structure Class:	II	Design Wind Speed Without Ice:	90 mph
Exposure Category:	C	Design Wind Speed With Ice:	40 mph
Topographic Category:	1	Operational Wind Speed:	60 mph
Crest Height:	0.0 ft	Design Ice Thickness:	1.00 in

Seismic Parameters

Analysis Method:	Equivalent Modal Analysis & Equivalent Lateral Force Methods		
Site Class:	D - Stiff Soil		
Period Based on Rayleigh Method (sec):	2.01		
T _L (sec):	6	p:	1.3
S _s :	0.189	S ₁ :	0.060
F _a :	1.600	F _v :	2.400
S _{ds} :	0.202	S _{d1} :	0.096
		C _s :	0.032
		C _s Max:	0.032
		C _s Min:	0.030

Load Cases

1.2D + 1.6W	90 mph with No Ice
0.9D + 1.6W	90 mph with No Ice (Reduced DL)
1.2D + 1.0Di + 1.0Wi	40 mph with 1.00 in Radial Ice
(1.2 + 0.2S _{ds}) * DL + E ELFM	Seismic Equivalent Lateral Forces Method
(1.2 + 0.2S _{ds}) * DL + E EMAM	Seismic Equivalent Modal Analysis Method
(0.9 - 0.2S _{ds}) * DL + E ELFM	Seismic (Reduced DL) Equivalent Lateral Forces Method
(0.9 - 0.2S _{ds}) * DL + E EMAM	Seismic (Reduced DL) Equivalent Modal Analysis Method
1.0D + 1.0W	Serviceability 60 mph

Site Number: 413783

Code: ANSI/TIA-222-G

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Site Name: Kent Pcs CT, CT

Engineering Number: OAA692603_C3_01

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Customer: AT&T Mobility

Shaft Section Properties

Sect Info	Length (ft)	Thick (in)	Fy (ksi)	Joint Type	Slip Joint Len (in)	Weight (lb)	Bottom					Top							
							Dia (in)	Elev (ft)	Area (in ²)	Ix (in ⁴)	W/t Ratio	D/t Ratio	Dia (in)	Elev (ft)	Area (in ²)	Ix (in ⁴)	W/t Ratio	D/t Ratio	Taper (in/ft)
1-18	51.920	0.3750	65		0.00	11,327	60.50	0.00	71.56	32684.4	27.04	161.33	47.98	51.92	56.66	16223.9	21.15	127.95	0.241124
2-18	51.210	0.3750	65	Slip	82.00	9,090	50.37	45.09	59.51	18800.8	22.28	134.34	38.03	96.30	44.82	8029.0	16.47	101.41	0.241124
3-18	52.630	0.3125	65	Slip	67.00	5,923	40.00	90.71	39.37	7834.6	21.16	128.01	27.31	143.34	26.78	2466.2	14.00	87.40	0.241124
4-18	9.823	0.1875	65	Slip	50.00	543	28.69	139.18	16.96	1741.2	25.57	153.02	26.32	149.00	15.55	1342.2	23.34	140.39	0.241124
Shaft Weight						26,883													

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		
149.00	3' Yagi	1	10.00	2.980	1.00	293.26	12.530	1.00	0.000	3.000
149.00	Amphenol Antel LPA-	3	10.50	4.570	0.73	133.52	7.660	0.73	0.000	3.000
149.00	Antel BXA-70063/6CF	3	17.00	7.570	0.65	205.56	11.248	0.65	0.000	3.000
149.00	Antel LPA-80080/6CF	6	21.00	8.630	0.65	297.37	5.949	0.65	0.000	3.000
149.00	Flat Low Profile Platform	1	1500.00	26.100	1.00	2,363.88	51.557	1.00	0.000	0.000
149.00	RFS Celwave PD220	2	25.00	5.500	1.00	395.97	18.573	1.00	0.000	10.000
149.00	VZW Unused Reserve:	1	2291.50	144.15	1.00	4,420.08	278.051	1.00	0.000	3.000
140.00	Andrew ABT-DFDM-ADB	1	1.10	0.050	0.50	4.05	0.305	0.50	0.000	0.000
140.00	Andrew SBNHH-1D65A (33.5	2	33.50	5.880	0.69	256.88	7.335	0.69	0.000	0.000
140.00	CCI HPA-65R-BUU-H6	1	51.00	9.660	0.69	397.02	11.503	0.69	0.000	0.000
140.00	Ericsson RRUS 32 B2	3	53.00	2.740	0.67	178.85	3.734	0.67	0.000	0.000
140.00	Ericsson RRUS A2 Module	3	21.20	1.600	0.50	89.02	2.334	0.50	0.000	0.000
140.00	Ericsson RRUS-11	3	55.00	3.790	0.67	174.09	5.492	0.67	0.000	0.000
140.00	Powerwave Allgon P90-15-	6	53.00	8.130	0.67	323.31	9.887	0.67	0.000	0.000
140.00	Powerwave Allgon TT08-	3	22.00	0.920	0.50	57.23	1.899	0.50	0.000	0.000
140.00	Powerwave Allgon TT19-	6	16.00	0.640	0.50	57.92	1.034	0.50	0.000	0.000
140.00	Raycap DC6-48-60-18-8F	1	20.00	1.110	1.00	135.31	2.751	1.00	0.000	0.000
140.00	Round Low Profile Platform	1	1500.00	21.700	1.00	2,359.42	47.167	1.00	0.000	0.000
122.00	3' Yagi	1	10.00	2.980	1.00	19.11	5.695	1.00	0.000	1.000
122.00	Decibel DB222	2	16.00	2.250	1.00	30.58	4.300	1.00	0.000	2.000
122.00	Stand Off	2	75.00	2.500	0.90	143.32	4.778	0.90	0.000	0.000
110.00	Commscope LNX-6515DS-	3	50.30	11.450	0.70	408.42	13.601	0.70	0.000	0.000
110.00	Ericsson RRUS 11 B12	3	50.70	2.790	0.67	169.80	3.689	0.67	0.000	0.000
110.00	Ericsson RRUS 11 B2	3	50.70	2.790	0.67	169.80	3.689	0.67	0.000	0.000
110.00	Ericsson RRUS 11 B4	3	50.70	2.790	0.67	169.80	3.689	0.67	0.000	0.000
110.00	Flat T-Arm	3	250.00	12.900	0.67	520.09	23.468	0.67	0.000	0.000
110.00	RFS APX16DWV-16DWVS-E-	3	40.70	6.590	0.60	230.94	8.062	0.60	0.000	0.000
110.00	Symmetricom 58532A	1	0.40	0.220	0.50	20.41	0.500	0.50	0.000	0.000
Totals		71	8238.40			23,259.05			Number of Loadings : 28	

Linear Appurtenance Properties

Elev From (ft)	Elev To (ft)	Qty	Description	Coax Diameter (in)	Coax Weight (lb/ft)	Projected Width (in)	Exposed To Wind	Carrier	
0.00	149.00	18	1 5/8" Coax	1.98	0.82	N	0.00	N	Verizon
0.00	149.00	3	7/8" Coax	1.09	0.33	N	0.00	N	Other
0.00	140.00	1	0.39" Fiber Trunk	0.39	0.06	N	0.00	N	AT&T Mobility
0.00	140.00	2	0.78" 8 AWG 6	0.78	0.59	N	0.00	N	AT&T Mobility
0.00	140.00	18	1 5/8" Coax	1.98	0.82	N	0.00	N	AT&T Mobility
0.00	122.00	3	7/8" Coax	1.09	0.33	N	0.00	N	Other
0.00	110.00	2	1 5/8" Fiber	1.63	1.61	N	0.00	N	T-Mobile

Site Number: 413783

Code: ANSI/TIA-222-G

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Site Name: Kent Pcs CT, CT

Engineering Number: OAA692603_C3_01

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Customer: AT&T Mobility

0.00	110.00	1 1/2" Coax	0.63	0.15	N	0.00	N	T-Mobile
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Site Number: 413783

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Site Name: Kent Pcs CT, CT

Engineering Number: OAA692603_C3_01

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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)
0.00		0.3750	60.500	71.561	32,684.4	27.04	161.33	69.6	1064.	0.0	0.0
5.00		0.3750	59.294	70.126	30,757.4	26.47	158.12	70.3	1021.	0.0	1,205.3
10.00		0.3750	58.089	68.691	28,907.7	25.90	154.90	70.9	980.2	0.0	1,180.9
15.00		0.3750	56.883	67.256	27,133.7	25.34	151.69	71.6	939.5	0.0	1,156.5
20.00		0.3750	55.678	65.821	25,433.7	24.77	148.47	72.3	899.7	0.0	1,132.1
25.00		0.3750	54.472	64.387	23,806.3	24.20	145.26	72.9	860.8	0.0	1,107.7
30.00		0.3750	53.266	62.952	22,249.9	23.64	142.04	73.6	822.7	0.0	1,083.3
35.00		0.3750	52.061	61.517	20,762.8	23.07	138.83	74.3	785.5	0.0	1,058.8
40.00		0.3750	50.855	60.082	19,343.5	22.50	135.61	74.9	749.2	0.0	1,034.4
45.00		0.3750	49.649	58.647	17,990.4	21.93	132.40	75.6	713.7	0.0	1,010.0
45.09	Bot - Section 2	0.3750	49.629	58.622	17,967.5	21.92	132.34	75.6	713.1	0.0	17.3
50.00		0.3750	48.444	57.212	16,701.9	21.37	129.18	76.3	679.1	0.0	1,951.5
51.92	Top - Section 1	0.3750	48.731	57.553	17,002.9	21.50	129.95	76.1	687.2	0.0	749.8
55.00		0.3750	47.988	56.670	16,231.4	21.15	127.97	76.5	666.2	0.0	598.6
60.00		0.3750	46.783	55.235	15,029.4	20.59	124.75	77.2	632.8	0.0	952.0
65.00		0.3750	45.577	53.800	13,888.2	20.02	121.54	77.9	600.2	0.0	927.5
70.00		0.3750	44.371	52.365	12,806.3	19.45	118.32	78.5	568.5	0.0	903.1
75.00		0.3750	43.166	50.930	11,782.1	18.89	115.11	79.2	537.6	0.0	878.7
80.00		0.3750	41.960	49.495	10,814.0	18.32	111.89	79.9	507.6	0.0	854.3
85.00		0.3750	40.754	48.060	9,900.5	17.75	108.68	80.5	478.5	0.0	829.9
90.00		0.3750	39.549	46.625	9,039.9	17.19	105.46	81.2	450.2	0.0	805.5
90.71	Bot - Section 3	0.3750	39.377	46.420	8,921.3	17.10	105.00	81.3	446.2	0.0	112.9
95.00		0.3750	38.343	45.190	8,230.7	16.62	102.25	81.9	422.8	0.0	1,234.9
96.30	Top - Section 2	0.3125	38.656	38.030	7,064.1	20.40	123.70	77.4	359.9	0.0	367.1
100.0		0.3125	37.763	37.144	6,581.9	19.90	120.84	78.0	343.3	0.0	473.7
105.0		0.3125	36.557	35.949	5,966.5	19.22	116.98	78.8	321.5	0.0	621.8
110.0		0.3125	35.351	34.753	5,390.7	18.54	113.12	79.6	300.3	0.0	601.5
115.0		0.3125	34.146	33.557	4,853.2	17.86	109.27	80.4	279.9	0.0	581.1
120.0		0.3125	32.940	32.361	4,352.6	17.18	105.41	81.2	260.3	0.0	560.8
122.0		0.3125	32.458	31.883	4,162.4	16.90	103.87	81.5	252.6	0.0	218.6
125.0		0.3125	31.734	31.166	3,887.7	16.50	101.55	82.0	241.3	0.0	321.8
130.0		0.3125	30.529	29.970	3,457.2	15.82	97.69	82.6	223.0	0.0	520.1
135.0		0.3125	29.323	28.774	3,059.6	15.13	93.83	82.6	205.5	0.0	499.7
139.1	Bot - Section 4	0.3125	28.316	27.775	2,751.9	14.57	90.61	82.6	191.4	0.0	401.8
140.0		0.3125	28.118	27.578	2,693.8	14.45	89.98	82.6	188.7	0.0	124.9
143.3	Top - Section 3	0.1875	27.686	16.365	1,563.5	24.63	147.66	72.4	111.2	0.0	498.1
145.0		0.1875	27.287	16.127	1,496.3	24.25	145.53	72.9	108.0	0.0	91.6
149.0		0.1875	26.322	15.553	1,342.2	23.34	140.39	73.9	100.4	0.0	215.6
26,883.2											

Site Number: 413783

Code: ANSI/TIA-222-G

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Site Name: Kent Pcs CT, CT

Engineering Number: OAA692603_C3_01

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Customer: AT&T Mobility

Load Case: 1.2D + 1.6W	90 mph with No Ice	22 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		242.7	0.0					0.0	0.0	242.7	0.0	0.0	0.0
5.00		480.6	1,446.4					0.0	216.7	480.6	1,663.1	0.0	0.0
10.00		470.8	1,417.1					0.0	216.7	470.8	1,633.8	0.0	0.0
15.00		468.2	1,387.8					0.0	216.7	468.2	1,604.5	0.0	0.0
20.00		478.0	1,358.5					0.0	216.7	478.0	1,575.2	0.0	0.0
25.00		490.4	1,329.2					0.0	216.7	490.4	1,545.9	0.0	0.0
30.00		498.5	1,299.9					0.0	216.7	498.5	1,516.6	0.0	0.0
35.00		503.4	1,270.6					0.0	216.7	503.4	1,487.3	0.0	0.0
40.00		505.8	1,241.3					0.0	216.7	505.8	1,458.0	0.0	0.0
45.00		257.6	1,212.0					0.0	216.7	257.6	1,428.7	0.0	0.0
45.09	Bot - Section 2	256.8	20.7					0.0	3.8	256.8	24.5	0.0	0.0
50.00		350.9	2,341.9					0.0	212.9	350.9	2,554.8	0.0	0.0
51.92	Top - Section 1	256.0	899.8					0.0	83.2	256.0	983.0	0.0	0.0
55.00		412.0	718.3					0.0	133.5	412.0	851.7	0.0	0.0
60.00		506.9	1,142.4					0.0	216.7	506.9	1,359.0	0.0	0.0
65.00		502.2	1,113.1					0.0	216.7	502.2	1,329.7	0.0	0.0
70.00		496.6	1,083.8					0.0	216.7	496.6	1,300.4	0.0	0.0
75.00		490.2	1,054.5					0.0	216.7	490.2	1,271.1	0.0	0.0
80.00		483.0	1,025.2					0.0	216.7	483.0	1,241.8	0.0	0.0
85.00		475.2	995.9					0.0	216.7	475.2	1,212.5	0.0	0.0
90.00		268.8	966.6					0.0	216.7	268.8	1,183.2	0.0	0.0
90.71	Bot - Section 3	234.3	135.5					0.0	30.9	234.3	166.4	0.0	0.0
95.00		261.3	1,481.8					0.0	185.8	261.3	1,667.6	0.0	0.0
96.30	Top - Section 2	230.2	440.5					0.0	56.2	230.2	496.6	0.0	0.0
100.00		395.5	568.4					0.0	160.5	395.5	728.9	0.0	0.0
105.00		445.6	746.2					0.0	216.7	445.6	962.8	0.0	0.0
110.00	Appertunance(s)	435.2	721.7	2,914.7	0.0	0.0	1,775.6	0.0	216.7	3,349.9	2,714.0	0.0	0.0
115.00		424.3	697.3					0.0	196.4	424.3	893.8	0.0	0.0
120.00		291.5	672.9					0.0	196.4	291.5	869.4	0.0	0.0
122.00	Appertunance(s)	203.6	262.3	549.1	0.0	549.8	230.4	0.0	78.6	752.7	571.3	0.0	0.0
125.00		319.2	386.2					0.0	114.3	319.2	500.5	0.0	0.0
130.00		389.3	624.1					0.0	190.5	389.3	814.6	0.0	0.0
135.00		346.8	599.7					0.0	190.5	346.8	790.2	0.0	0.0
139.18	Bot - Section 4	185.7	482.2					0.0	159.1	185.7	641.3	0.0	0.0
140.00	Appertunance(s)	152.4	149.9	3,562.6	0.0	0.0	3,008.0	0.0	31.4	3,715.0	3,189.3	0.0	0.0
143.34	Top - Section 3	181.3	597.7					0.0	63.2	181.3	660.9	0.0	0.0
145.00		199.7	109.9					0.0	31.3	199.7	141.2	0.0	0.0
149.00	Appertunance(s)	140.3	258.7	11,068.7	0.0	33,194.7	4,872.0	0.0	75.6	11,209.0	5,206.3	0.0	0.0
Totals:										31,825.9	48,239.7	0.00	0.00

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Site Name: Kent Pcs CT, CT

Engineering Number: OAA692603_C3_01

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Customer: AT&T Mobility

Load Case: 1.2D + 1.6W

90 mph with No Ice

22 Iterations

Gust Response Factor :1.10

Wind Importance Factor 1.00

Dead Load Factor :1.20

Wind Load Factor :1.60

Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-48.20	-31.65	0.00	-3,663.06	0.00	3,663.06	4,482.64	2,241.32	11,092.4	5,554.46	0.00	0.00	0.670
5.00	-46.45	-31.29	0.00	-3,504.81	0.00	3,504.81	4,434.84	2,217.42	10,752.7	5,384.36	0.08	-0.16	0.662
10.00	-44.73	-30.94	0.00	-3,348.34	0.00	3,348.34	4,385.31	2,192.65	10,413.7	5,214.59	0.33	-0.31	0.653
15.00	-43.04	-30.58	0.00	-3,193.64	0.00	3,193.64	4,334.06	2,167.03	10,075.6	5,045.30	0.75	-0.48	0.643
20.00	-41.38	-30.21	0.00	-3,040.72	0.00	3,040.72	4,281.09	2,140.54	9,738.73	4,876.60	1.33	-0.64	0.633
25.00	-39.76	-29.82	0.00	-2,889.67	0.00	2,889.67	4,226.40	2,113.20	9,403.31	4,708.64	2.09	-0.80	0.623
30.00	-38.16	-29.41	0.00	-2,740.59	0.00	2,740.59	4,169.98	2,084.99	9,069.60	4,541.54	3.03	-0.97	0.613
35.00	-36.60	-28.99	0.00	-2,593.55	0.00	2,593.55	4,111.84	2,055.92	8,737.86	4,375.42	4.14	-1.14	0.602
40.00	-35.07	-28.56	0.00	-2,448.62	0.00	2,448.62	4,051.98	2,025.99	8,408.36	4,210.43	5.43	-1.32	0.590
45.00	-33.60	-28.32	0.00	-2,305.85	0.00	2,305.85	3,990.40	1,995.20	8,081.34	4,046.68	6.90	-1.49	0.578
45.09	-33.54	-28.11	0.00	-2,303.39	0.00	2,303.39	3,989.32	1,994.66	8,075.70	4,043.85	6.93	-1.49	0.578
50.00	-30.94	-27.75	0.00	-2,165.28	0.00	2,165.28	3,927.10	1,963.55	7,757.08	3,884.30	8.56	-1.67	0.566
51.92	-29.92	-27.52	0.00	-2,111.99	0.00	2,111.99	3,942.33	1,971.16	7,834.02	3,922.83	9.24	-1.74	0.546
55.00	-29.01	-27.15	0.00	-2,027.24	0.00	2,027.24	3,902.73	1,951.36	7,635.30	3,823.33	10.40	-1.85	0.538
60.00	-27.59	-26.68	0.00	-1,891.49	0.00	1,891.49	3,837.05	1,918.52	7,315.25	3,663.06	12.43	-2.02	0.524
65.00	-26.20	-26.21	0.00	-1,758.09	0.00	1,758.09	3,769.65	1,884.82	6,998.55	3,504.48	14.64	-2.19	0.509
70.00	-24.84	-25.74	0.00	-1,627.05	0.00	1,627.05	3,700.53	1,850.26	6,685.47	3,347.71	17.03	-2.37	0.493
75.00	-23.52	-25.26	0.00	-1,498.37	0.00	1,498.37	3,629.69	1,814.84	6,376.27	3,192.88	19.60	-2.54	0.476
80.00	-22.22	-24.79	0.00	-1,372.05	0.00	1,372.05	3,557.12	1,778.56	6,071.21	3,040.12	22.36	-2.71	0.458
85.00	-20.96	-24.32	0.00	-1,248.09	0.00	1,248.09	3,482.83	1,741.42	5,770.54	2,889.56	25.29	-2.89	0.438
90.00	-19.76	-24.02	0.00	-1,126.49	0.00	1,126.49	3,406.82	1,703.41	5,474.52	2,741.33	28.41	-3.06	0.417
90.71	-19.57	-23.81	0.00	-1,109.35	0.00	1,109.35	3,395.84	1,697.92	5,432.68	2,720.38	28.87	-3.08	0.414
95.00	-17.88	-23.49	0.00	-1,007.29	0.00	1,007.29	3,329.09	1,664.55	5,183.41	2,595.56	31.70	-3.23	0.394
96.30	-17.36	-23.25	0.00	-976.83	0.00	976.83	2,649.38	1,324.69	4,172.95	2,089.58	32.58	-3.27	0.474
100.00	-16.60	-22.86	0.00	-890.71	0.00	890.71	2,607.49	1,303.74	4,010.55	2,008.26	35.17	-3.39	0.450
105.00	-15.59	-22.41	0.00	-776.41	0.00	776.41	2,549.43	1,274.72	3,793.98	1,899.81	38.82	-3.57	0.415
110.00	-13.04	-18.93	0.00	-664.38	0.00	664.38	2,489.65	1,244.83	3,580.72	1,793.02	42.65	-3.75	0.376
115.00	-12.13	-18.48	0.00	-569.74	0.00	569.74	2,428.15	1,214.08	3,371.05	1,688.03	46.66	-3.91	0.343
120.00	-11.25	-18.15	0.00	-477.35	0.00	477.35	2,364.93	1,182.47	3,165.21	1,584.96	50.84	-4.06	0.306
122.00	-10.71	-17.37	0.00	-440.50	0.00	440.50	2,339.16	1,169.58	3,084.00	1,544.29	52.55	-4.12	0.290
125.00	-10.20	-17.03	0.00	-388.39	0.00	388.39	2,299.99	1,149.99	2,963.46	1,483.93	55.17	-4.21	0.266
130.00	-9.39	-16.60	0.00	-303.22	0.00	303.22	2,226.60	1,113.30	2,757.75	1,380.92	59.64	-4.33	0.224
135.00	-8.60	-16.21	0.00	-220.20	0.00	220.20	2,137.76	1,068.88	2,540.99	1,272.38	64.24	-4.44	0.177
139.18	-7.96	-15.98	0.00	-152.49	0.00	152.49	2,063.55	1,031.78	2,366.73	1,185.12	68.15	-4.51	0.133
140.00	-5.07	-12.03	0.00	-139.33	0.00	139.33	2,048.92	1,024.46	2,333.10	1,168.29	68.93	-4.53	0.122
143.34	-4.42	-11.80	0.00	-99.11	0.00	99.11	1,066.86	533.43	1,206.73	604.26	72.12	-4.57	0.169
145.00	-4.29	-11.59	0.00	-79.56	0.00	79.56	1,057.77	528.89	1,178.96	590.35	73.70	-4.59	0.139
149.00	0.00	-11.21	0.00	-33.19	0.00	33.19	1,035.06	517.53	1,112.30	556.98	77.56	-4.63	0.060

Site Number: 413783

Code: ANSI/TIA-222-G

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Site Name: Kent Pcs CT, CT

Engineering Number: OAA692603_C3_01

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Customer: AT&T Mobility

Load Case: 0.9D + 1.6W

90 mph with No Ice (Reduced DL)

22 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		242.7	0.0					0.0	0.0	242.7	0.0	0.0	0.0
5.00		480.6	1,084.8					0.0	162.5	480.6	1,247.3	0.0	0.0
10.00		470.8	1,062.8					0.0	162.5	470.8	1,225.3	0.0	0.0
15.00		468.2	1,040.8					0.0	162.5	468.2	1,203.3	0.0	0.0
20.00		478.0	1,018.9					0.0	162.5	478.0	1,181.4	0.0	0.0
25.00		490.4	996.9					0.0	162.5	490.4	1,159.4	0.0	0.0
30.00		498.5	974.9					0.0	162.5	498.5	1,137.4	0.0	0.0
35.00		503.4	953.0					0.0	162.5	503.4	1,115.5	0.0	0.0
40.00		505.8	931.0					0.0	162.5	505.8	1,093.5	0.0	0.0
45.00		257.6	909.0					0.0	162.5	257.6	1,071.5	0.0	0.0
45.09	Bot - Section 2	256.8	15.6					0.0	2.8	256.8	18.4	0.0	0.0
50.00		350.9	1,756.4					0.0	159.7	350.9	1,916.1	0.0	0.0
51.92	Top - Section 1	256.0	674.8					0.0	62.4	256.0	737.2	0.0	0.0
55.00		412.0	538.7					0.0	100.1	412.0	638.8	0.0	0.0
60.00		506.9	856.8					0.0	162.5	506.9	1,019.3	0.0	0.0
65.00		502.2	834.8					0.0	162.5	502.2	997.3	0.0	0.0
70.00		496.6	812.8					0.0	162.5	496.6	975.3	0.0	0.0
75.00		490.2	790.8					0.0	162.5	490.2	953.3	0.0	0.0
80.00		483.0	768.9					0.0	162.5	483.0	931.4	0.0	0.0
85.00		475.2	746.9					0.0	162.5	475.2	909.4	0.0	0.0
90.00		268.8	724.9					0.0	162.5	268.8	887.4	0.0	0.0
90.71	Bot - Section 3	234.3	101.6					0.0	23.2	234.3	124.8	0.0	0.0
95.00		261.3	1,111.4					0.0	139.3	261.3	1,250.7	0.0	0.0
96.30	Top - Section 2	230.2	330.3					0.0	42.1	230.2	372.5	0.0	0.0
100.00		395.5	426.3					0.0	120.4	395.5	546.7	0.0	0.0
105.00		445.6	559.6					0.0	162.5	445.6	722.1	0.0	0.0
110.00	Appertunance(s)	435.2	541.3	2,914.7	0.0	0.0	1,331.7	0.0	162.5	3,349.9	2,035.5	0.0	0.0
115.00		424.3	523.0					0.0	147.3	424.3	670.3	0.0	0.0
120.00		291.5	504.7					0.0	147.3	291.5	652.0	0.0	0.0
122.00	Appertunance(s)	203.6	196.7	549.1	0.0	549.8	172.8	0.0	58.9	752.7	428.5	0.0	0.0
125.00		319.2	289.6					0.0	85.7	319.2	375.4	0.0	0.0
130.00		389.3	468.1					0.0	142.9	389.3	610.9	0.0	0.0
135.00		346.8	449.8					0.0	142.9	346.8	592.6	0.0	0.0
139.18	Bot - Section 4	185.7	361.7					0.0	119.3	185.7	481.0	0.0	0.0
140.00	Appertunance(s)	152.4	112.4	3,562.6	0.0	0.0	2,256.0	0.0	23.5	3,715.0	2,392.0	0.0	0.0
143.34	Top - Section 3	181.3	448.3					0.0	47.4	181.3	495.7	0.0	0.0
145.00		199.7	82.4					0.0	23.5	199.7	105.9	0.0	0.0
149.00	Appertunance(s)	140.3	194.0	11,068.7	0.0	33,194.7	3,654.0	0.0	56.7	11,209.0	3,904.7	0.0	0.0
Totals:										31,825.9	36,179.8	0.00	0.00

Site Number: 413783

Code: ANSI/TIA-222-G

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Site Name: Kent Pcs CT, CT

Engineering Number: OAA692603_C3_01

1/9/2017 12:34:13 PM

Customer: AT&T Mobility

Load Case: 0.9D + 1.6W

90 mph with No Ice (Reduced DL)

22 Iterations

Gust Response Factor :1.10

Wind Importance Factor 1.00

Dead Load Factor :0.90

Wind Load Factor :1.60

Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-36.14	-31.63	0.00	-3,631.52	0.00	3,631.52	4,482.64	2,241.32	11,092.4	5,554.46	0.00	0.00	0.662
5.00	-34.80	-31.25	0.00	-3,473.36	0.00	3,473.36	4,434.84	2,217.42	10,752.7	5,384.36	0.08	-0.15	0.653
10.00	-33.50	-30.86	0.00	-3,317.13	0.00	3,317.13	4,385.31	2,192.65	10,413.7	5,214.59	0.33	-0.31	0.644
15.00	-32.21	-30.48	0.00	-3,162.83	0.00	3,162.83	4,334.06	2,167.03	10,075.6	5,045.30	0.74	-0.47	0.635
20.00	-30.95	-30.07	0.00	-3,010.45	0.00	3,010.45	4,281.09	2,140.54	9,738.73	4,876.60	1.32	-0.63	0.625
25.00	-29.71	-29.66	0.00	-2,860.08	0.00	2,860.08	4,226.40	2,113.20	9,403.31	4,708.64	2.07	-0.80	0.615
30.00	-28.49	-29.22	0.00	-2,711.80	0.00	2,711.80	4,169.98	2,084.99	9,069.60	4,541.54	3.00	-0.96	0.604
35.00	-27.30	-28.78	0.00	-2,565.69	0.00	2,565.69	4,111.84	2,055.92	8,737.86	4,375.42	4.10	-1.13	0.593
40.00	-26.14	-28.33	0.00	-2,421.78	0.00	2,421.78	4,051.98	2,025.99	8,408.36	4,210.43	5.38	-1.30	0.582
45.00	-25.03	-28.08	0.00	-2,280.14	0.00	2,280.14	3,990.40	1,995.20	8,081.34	4,046.68	6.83	-1.48	0.570
45.09	-24.97	-27.87	0.00	-2,277.70	0.00	2,277.70	3,989.32	1,994.66	8,075.70	4,043.85	6.86	-1.48	0.570
50.00	-23.01	-27.51	0.00	-2,140.79	0.00	2,140.79	3,927.10	1,963.55	7,757.08	3,884.30	8.47	-1.65	0.557
51.92	-22.24	-27.27	0.00	-2,087.97	0.00	2,087.97	3,942.33	1,971.16	7,834.02	3,922.83	9.15	-1.72	0.538
55.00	-21.55	-26.89	0.00	-2,003.98	0.00	2,003.98	3,902.73	1,951.36	7,635.30	3,823.33	10.30	-1.83	0.530
60.00	-20.47	-26.41	0.00	-1,869.53	0.00	1,869.53	3,837.05	1,918.52	7,315.25	3,663.06	12.31	-2.00	0.516
65.00	-19.41	-25.93	0.00	-1,737.48	0.00	1,737.48	3,769.65	1,884.82	6,998.55	3,504.48	14.49	-2.17	0.501
70.00	-18.38	-25.45	0.00	-1,607.83	0.00	1,607.83	3,700.53	1,850.26	6,685.47	3,347.71	16.86	-2.34	0.485
75.00	-17.37	-24.97	0.00	-1,480.58	0.00	1,480.58	3,629.69	1,814.84	6,376.27	3,192.88	19.41	-2.51	0.469
80.00	-16.39	-24.50	0.00	-1,355.72	0.00	1,355.72	3,557.12	1,778.56	6,071.21	3,040.12	22.13	-2.69	0.451
85.00	-15.44	-24.02	0.00	-1,233.24	0.00	1,233.24	3,482.83	1,741.42	5,770.54	2,889.56	25.03	-2.86	0.431
90.00	-14.52	-23.73	0.00	-1,113.12	0.00	1,113.12	3,406.82	1,703.41	5,474.52	2,741.33	28.11	-3.02	0.411
90.71	-14.38	-23.51	0.00	-1,096.19	0.00	1,096.19	3,395.84	1,697.92	5,432.68	2,720.38	28.57	-3.05	0.407
95.00	-13.10	-23.21	0.00	-995.39	0.00	995.39	3,329.09	1,664.55	5,183.41	2,595.56	31.37	-3.19	0.388
96.30	-12.71	-22.97	0.00	-965.30	0.00	965.30	2,649.38	1,324.69	4,172.95	2,089.58	32.24	-3.24	0.467
100.00	-12.13	-22.58	0.00	-880.22	0.00	880.22	2,607.49	1,303.74	4,010.55	2,008.26	34.80	-3.36	0.443
105.00	-11.37	-22.13	0.00	-767.32	0.00	767.32	2,549.43	1,274.72	3,793.98	1,899.81	38.41	-3.53	0.409
110.00	-9.50	-18.68	0.00	-656.68	0.00	656.68	2,489.65	1,244.83	3,580.72	1,793.02	42.20	-3.70	0.370
115.00	-8.80	-18.24	0.00	-563.27	0.00	563.27	2,428.15	1,214.08	3,371.05	1,688.03	46.17	-3.87	0.338
120.00	-8.14	-17.92	0.00	-472.08	0.00	472.08	2,364.93	1,182.47	3,165.21	1,584.96	50.30	-4.02	0.302
122.00	-7.75	-17.15	0.00	-435.69	0.00	435.69	2,339.16	1,169.58	3,084.00	1,544.29	51.99	-4.08	0.286
125.00	-7.36	-16.82	0.00	-384.25	0.00	384.25	2,299.99	1,149.99	2,963.46	1,483.93	54.58	-4.16	0.262
130.00	-6.75	-16.40	0.00	-300.18	0.00	300.18	2,226.60	1,113.30	2,757.75	1,380.92	59.00	-4.29	0.221
135.00	-6.16	-16.01	0.00	-218.20	0.00	218.20	2,137.76	1,068.88	2,540.99	1,272.38	63.55	-4.39	0.175
139.18	-5.68	-15.80	0.00	-151.31	0.00	151.31	2,063.55	1,031.78	2,366.73	1,185.12	67.42	-4.46	0.131
140.00	-3.58	-11.91	0.00	-138.31	0.00	138.31	2,048.92	1,024.46	2,333.10	1,168.29	68.19	-4.48	0.120
143.34	-3.10	-11.69	0.00	-98.50	0.00	98.50	1,066.86	533.43	1,206.73	604.26	71.34	-4.52	0.166
145.00	-3.00	-11.48	0.00	-79.13	0.00	79.13	1,057.77	528.89	1,178.96	590.35	72.91	-4.54	0.137
149.00	0.00	-11.21	0.00	-33.19	0.00	33.19	1,035.06	517.53	1,112.30	556.98	76.73	-4.58	0.060

Site Number: 413783

Code: ANSI/TIA-222-G

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Site Name: Kent Pcs CT, CT

Engineering Number: OAA692603_C3_01

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Customer: AT&T Mobility

Load Case: 1.2D + 1.0Di + 1.0Wi	40 mph with 1.00 in Radial Ice	21 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		58.1	0.0					0.0	0.0	58.1	0.0	0.0	0.0
5.00		115.5	2,035.3					0.0	216.7	115.5	2,251.9	0.0	0.0
10.00		113.7	2,063.2					0.0	216.7	113.7	2,279.9	0.0	0.0
15.00		113.5	2,055.1					0.0	216.7	113.5	2,271.8	0.0	0.0
20.00		116.3	2,035.2					0.0	216.7	116.3	2,251.8	0.0	0.0
25.00		119.6	2,009.1					0.0	216.7	119.6	2,225.8	0.0	0.0
30.00		121.9	1,979.3					0.0	216.7	121.9	2,195.9	0.0	0.0
35.00		123.5	1,946.7					0.0	216.7	123.5	2,163.4	0.0	0.0
40.00		124.4	1,912.2					0.0	216.7	124.4	2,128.9	0.0	0.0
45.00		63.4	1,876.2					0.0	216.7	63.4	2,092.9	0.0	0.0
45.09	Bot - Section 2	63.3	32.3					0.0	3.8	63.3	36.1	0.0	0.0
50.00		86.6	2,996.4					0.0	212.9	86.6	3,209.3	0.0	0.0
51.92	Top - Section 1	63.3	1,155.0					0.0	83.2	63.3	1,238.2	0.0	0.0
55.00		102.1	1,123.8					0.0	133.5	102.1	1,257.3	0.0	0.0
60.00		125.8	1,789.8					0.0	216.7	125.8	2,006.4	0.0	0.0
65.00		125.0	1,750.0					0.0	216.7	125.0	1,966.7	0.0	0.0
70.00		124.0	1,709.6					0.0	216.7	124.0	1,926.3	0.0	0.0
75.00		122.8	1,668.7					0.0	216.7	122.8	1,885.3	0.0	0.0
80.00		121.4	1,627.2					0.0	216.7	121.4	1,843.9	0.0	0.0
85.00		119.8	1,585.3					0.0	216.7	119.8	1,802.0	0.0	0.0
90.00		67.9	1,543.0					0.0	216.7	67.9	1,759.7	0.0	0.0
90.71	Bot - Section 3	59.3	217.7					0.0	30.9	59.3	248.6	0.0	0.0
95.00		66.2	1,972.2					0.0	185.8	66.2	2,158.0	0.0	0.0
96.30	Top - Section 2	58.5	588.1					0.0	56.2	58.5	644.3	0.0	0.0
100.00		100.7	982.1					0.0	160.5	100.7	1,142.5	0.0	0.0
105.00		113.9	1,290.3					0.0	216.7	113.9	1,506.9	0.0	0.0
110.00	Appertunance(s)	111.7	1,251.6	510.3	0.0	0.0	5,130.9	0.0	216.7	622.0	6,599.2	0.0	0.0
115.00		109.3	1,212.7					0.0	196.4	109.3	1,409.1	0.0	0.0
120.00		75.4	1,173.5					0.0	196.4	75.4	1,369.9	0.0	0.0
122.00	Appertunance(s)	52.9	460.4	129.5	0.0	129.7	597.3	0.0	78.6	182.4	1,136.3	0.0	0.0
125.00		83.1	677.8					0.0	114.3	83.1	792.1	0.0	0.0
130.00		101.9	1,094.4					0.0	190.5	101.9	1,284.9	0.0	0.0
135.00		91.2	1,054.6					0.0	190.5	91.2	1,245.1	0.0	0.0
139.18	Bot - Section 4	49.0	851.5					0.0	159.1	49.0	1,010.6	0.0	0.0
140.00	Appertunance(s)	40.4	223.2	686.9	0.0	0.0	7,637.4	0.0	31.4	727.3	7,892.0	0.0	0.0
143.34	Top - Section 3	48.1	888.2					0.0	63.2	48.1	951.4	0.0	0.0
145.00		53.2	252.2					0.0	31.3	53.2	283.5	0.0	0.0
149.00	Appertunance(s)	37.4	591.8	2,537.9	0.0	8,255.4	13,372.8	0.0	75.6	2,575.3	14,040.2	0.0	0.0
Totals:										7,308.85	82,508.1	0.00	0.00

Site Number: 413783

Code: ANSI/TIA-222-G

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Site Name: Kent Pcs CT, CT

Engineering Number: OAA692603_C3_01

1/9/2017 12:34:14 PM

Customer: AT&T Mobility

Load Case: 1.2D + 1.0Di + 1.0Wi

40 mph with 1.00 in Radial Ice

21 Iterations

Gust Response Factor :1.10

Ice Dead Load Factor :1.00

Wind Importance Factor :1.00

Dead Load Factor :1.20

Ice Importance Factor :1.00

Wind Load Factor :1.00

Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-82.51	-7.28	0.00	-862.97	0.00	862.97	4,482.64	2,241.32	11,092.4	5,554.46	0.00	0.00	0.174
5.00	-80.25	-7.21	0.00	-826.58	0.00	826.58	4,434.84	2,217.42	10,752.7	5,384.36	0.02	-0.04	0.172
10.00	-77.96	-7.15	0.00	-790.52	0.00	790.52	4,385.31	2,192.65	10,413.7	5,214.59	0.08	-0.07	0.169
15.00	-75.69	-7.08	0.00	-754.78	0.00	754.78	4,334.06	2,167.03	10,075.6	5,045.30	0.18	-0.11	0.167
20.00	-73.43	-7.01	0.00	-719.38	0.00	719.38	4,281.09	2,140.54	9,738.73	4,876.60	0.31	-0.15	0.165
25.00	-71.20	-6.93	0.00	-684.33	0.00	684.33	4,226.40	2,113.20	9,403.31	4,708.64	0.49	-0.19	0.162
30.00	-69.00	-6.85	0.00	-649.66	0.00	649.66	4,169.98	2,084.99	9,069.60	4,541.54	0.71	-0.23	0.160
35.00	-66.83	-6.77	0.00	-615.41	0.00	615.41	4,111.84	2,055.92	8,737.86	4,375.42	0.98	-0.27	0.157
40.00	-64.70	-6.68	0.00	-581.58	0.00	581.58	4,051.98	2,025.99	8,408.36	4,210.43	1.28	-0.31	0.154
45.00	-62.61	-6.62	0.00	-548.20	0.00	548.20	3,990.40	1,995.20	8,081.34	4,046.68	1.63	-0.35	0.151
45.09	-62.57	-6.58	0.00	-547.62	0.00	547.62	3,989.32	1,994.66	8,075.70	4,043.85	1.64	-0.35	0.151
50.00	-59.36	-6.51	0.00	-515.27	0.00	515.27	3,927.10	1,963.55	7,757.08	3,884.30	2.02	-0.40	0.148
51.92	-58.12	-6.46	0.00	-502.78	0.00	502.78	3,942.33	1,971.16	7,834.02	3,922.83	2.19	-0.41	0.143
55.00	-56.86	-6.38	0.00	-482.89	0.00	482.89	3,902.73	1,951.36	7,635.30	3,823.33	2.46	-0.44	0.141
60.00	-54.85	-6.28	0.00	-451.00	0.00	451.00	3,837.05	1,918.52	7,315.25	3,663.06	2.94	-0.48	0.137
65.00	-52.88	-6.17	0.00	-419.62	0.00	419.62	3,769.65	1,884.82	6,998.55	3,504.48	3.47	-0.52	0.134
70.00	-50.95	-6.07	0.00	-388.76	0.00	388.76	3,700.53	1,850.26	6,685.47	3,347.71	4.03	-0.56	0.130
75.00	-49.06	-5.96	0.00	-358.43	0.00	358.43	3,629.69	1,814.84	6,376.27	3,192.88	4.64	-0.60	0.126
80.00	-47.21	-5.85	0.00	-328.63	0.00	328.63	3,557.12	1,778.56	6,071.21	3,040.12	5.30	-0.64	0.121
85.00	-45.41	-5.74	0.00	-299.36	0.00	299.36	3,482.83	1,741.42	5,770.54	2,889.56	6.00	-0.69	0.117
90.00	-43.65	-5.67	0.00	-270.64	0.00	270.64	3,406.82	1,703.41	5,474.52	2,741.33	6.74	-0.73	0.112
90.71	-43.40	-5.63	0.00	-266.59	0.00	266.59	3,395.84	1,697.92	5,432.68	2,720.38	6.85	-0.73	0.111
95.00	-41.24	-5.55	0.00	-242.48	0.00	242.48	3,329.09	1,664.55	5,183.41	2,595.56	7.52	-0.77	0.106
96.30	-40.59	-5.50	0.00	-235.28	0.00	235.28	2,649.38	1,324.69	4,172.95	2,089.58	7.73	-0.78	0.128
100.00	-39.45	-5.40	0.00	-214.93	0.00	214.93	2,607.49	1,303.74	4,010.55	2,008.26	8.35	-0.81	0.122
105.00	-37.94	-5.30	0.00	-187.91	0.00	187.91	2,549.43	1,274.72	3,793.98	1,899.81	9.22	-0.85	0.114
110.00	-31.35	-4.60	0.00	-161.43	0.00	161.43	2,489.65	1,244.83	3,580.72	1,793.02	10.13	-0.89	0.103
115.00	-29.94	-4.48	0.00	-138.45	0.00	138.45	2,428.15	1,214.08	3,371.05	1,688.03	11.09	-0.93	0.094
120.00	-28.57	-4.40	0.00	-116.03	0.00	116.03	2,364.93	1,182.47	3,165.21	1,584.96	12.08	-0.97	0.085
122.00	-27.43	-4.21	0.00	-107.10	0.00	107.10	2,339.16	1,169.58	3,084.00	1,544.29	12.49	-0.98	0.081
125.00	-26.64	-4.12	0.00	-94.48	0.00	94.48	2,299.99	1,149.99	2,963.46	1,483.93	13.12	-1.01	0.075
130.00	-25.35	-4.01	0.00	-73.88	0.00	73.88	2,226.60	1,113.30	2,757.75	1,380.92	14.19	-1.04	0.065
135.00	-24.11	-3.90	0.00	-53.83	0.00	53.83	2,137.76	1,068.88	2,540.99	1,272.38	15.29	-1.06	0.054
139.18	-23.10	-3.84	0.00	-37.52	0.00	37.52	2,063.55	1,031.78	2,366.73	1,185.12	16.23	-1.08	0.043
140.00	-15.22	-2.97	0.00	-34.36	0.00	34.36	2,048.92	1,024.46	2,333.10	1,168.29	16.42	-1.08	0.037
143.34	-14.27	-2.90	0.00	-24.44	0.00	24.44	1,066.86	533.43	1,206.73	604.26	17.18	-1.09	0.054
145.00	-13.99	-2.85	0.00	-19.64	0.00	19.64	1,057.77	528.89	1,178.96	590.35	17.56	-1.10	0.047
149.00	0.00	-2.58	0.00	-8.26	0.00	8.26	1,035.06	517.53	1,112.30	556.98	18.48	-1.11	0.015

Site Number: 413783

Code: ANSI/TIA-222-G

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Site Name: Kent Pcs CT, CT

Engineering Number: OAA692603_C3_01

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Customer: AT&T Mobility

Load Case: 1.0D + 1.0W

Serviceability 60 mph

21 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		67.4	0.0					0.0	0.0	67.4	0.0	0.0	0.0
5.00		133.5	1,205.3					0.0	180.6	133.5	1,385.9	0.0	0.0
10.00		130.8	1,180.9					0.0	180.6	130.8	1,361.5	0.0	0.0
15.00		130.1	1,156.5					0.0	180.6	130.1	1,337.0	0.0	0.0
20.00		132.8	1,132.1					0.0	180.6	132.8	1,312.6	0.0	0.0
25.00		136.2	1,107.7					0.0	180.6	136.2	1,288.2	0.0	0.0
30.00		138.5	1,083.3					0.0	180.6	138.5	1,263.8	0.0	0.0
35.00		139.8	1,058.8					0.0	180.6	139.8	1,239.4	0.0	0.0
40.00		140.5	1,034.4					0.0	180.6	140.5	1,215.0	0.0	0.0
45.00		71.6	1,010.0					0.0	180.6	71.6	1,190.6	0.0	0.0
45.09	Bot - Section 2	71.3	17.3					0.0	3.1	71.3	20.4	0.0	0.0
50.00		97.5	1,951.5					0.0	177.4	97.5	2,129.0	0.0	0.0
51.92	Top - Section 1	71.1	749.8					0.0	69.3	71.1	819.1	0.0	0.0
55.00		114.4	598.6					0.0	111.2	114.4	709.8	0.0	0.0
60.00		140.8	952.0					0.0	180.6	140.8	1,132.5	0.0	0.0
65.00		139.5	927.5					0.0	180.6	139.5	1,108.1	0.0	0.0
70.00		137.9	903.1					0.0	180.6	137.9	1,083.7	0.0	0.0
75.00		136.2	878.7					0.0	180.6	136.2	1,059.3	0.0	0.0
80.00		134.2	854.3					0.0	180.6	134.2	1,034.9	0.0	0.0
85.00		132.0	829.9					0.0	180.6	132.0	1,010.4	0.0	0.0
90.00		74.7	805.5					0.0	180.6	74.7	986.0	0.0	0.0
90.71	Bot - Section 3	65.1	112.9					0.0	25.8	65.1	138.7	0.0	0.0
95.00		72.6	1,234.9					0.0	154.8	72.6	1,389.7	0.0	0.0
96.30	Top - Section 2	64.0	367.1					0.0	46.8	64.0	413.9	0.0	0.0
100.00		109.9	473.7					0.0	133.7	109.9	607.4	0.0	0.0
105.00		123.8	621.8					0.0	180.6	123.8	802.3	0.0	0.0
110.00	Appertunance(s)	120.9	601.5	809.6	0.0	0.0	1,479.7	0.0	180.6	930.5	2,261.7	0.0	0.0
115.00		117.9	581.1					0.0	163.7	117.9	744.8	0.0	0.0
120.00		81.0	560.8					0.0	163.7	81.0	724.5	0.0	0.0
122.00	Appertunance(s)	56.6	218.6	152.5	0.0	152.7	192.0	0.0	65.5	209.1	476.1	0.0	0.0
125.00		88.7	321.8					0.0	95.2	88.7	417.1	0.0	0.0
130.00		108.1	520.1					0.0	158.8	108.1	678.8	0.0	0.0
135.00		96.3	499.7					0.0	158.8	96.3	658.5	0.0	0.0
139.18	Bot - Section 4	51.6	401.8					0.0	132.6	51.6	534.5	0.0	0.0
140.00	Appertunance(s)	42.3	124.9	989.6	0.0	0.0	2,506.7	0.0	26.1	1,032.0	2,657.7	0.0	0.0
143.34	Top - Section 3	50.4	498.1					0.0	52.7	50.4	550.8	0.0	0.0
145.00		55.5	91.6					0.0	26.1	55.5	117.7	0.0	0.0
149.00	Appertunance(s)	39.0	215.6	3,074.6	0.0	9,220.7	4,060.0	0.0	63.0	3,113.6	4,338.6	0.0	0.0
Totals:										8,840.53	40,199.8	0.00	0.00

Site Number: 413783

Code: ANSI/TIA-222-G

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Site Name: Kent Pcs CT, CT

Engineering Number: OAA692603_C3_01

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Customer: AT&T Mobility

Load Case: 1.0D + 1.0W

Serviceability 60 mph

21 Iterations

Gust Response Factor :1.10

Wind Importance Factor 1.00

Dead Load Factor :1.00

Wind Load Factor :1.00

Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-40.20	-8.79	0.00	-1,012.52	0.00	1,012.52	4,482.64	2,241.32	11,092.4	5,554.46	0.00	0.00	0.191
5.00	-38.80	-8.68	0.00	-968.58	0.00	968.58	4,434.84	2,217.42	10,752.7	5,384.36	0.02	-0.04	0.189
10.00	-37.44	-8.58	0.00	-925.16	0.00	925.16	4,385.31	2,192.65	10,413.7	5,214.59	0.09	-0.09	0.186
15.00	-36.09	-8.48	0.00	-882.26	0.00	882.26	4,334.06	2,167.03	10,075.6	5,045.30	0.21	-0.13	0.183
20.00	-34.77	-8.37	0.00	-839.89	0.00	839.89	4,281.09	2,140.54	9,738.73	4,876.60	0.37	-0.18	0.180
25.00	-33.48	-8.25	0.00	-798.05	0.00	798.05	4,226.40	2,113.20	9,403.31	4,708.64	0.58	-0.22	0.177
30.00	-32.21	-8.14	0.00	-756.79	0.00	756.79	4,169.98	2,084.99	9,069.60	4,541.54	0.84	-0.27	0.174
35.00	-30.96	-8.01	0.00	-716.11	0.00	716.11	4,111.84	2,055.92	8,737.86	4,375.42	1.14	-0.32	0.171
40.00	-29.74	-7.89	0.00	-676.04	0.00	676.04	4,051.98	2,025.99	8,408.36	4,210.43	1.50	-0.36	0.168
45.00	-28.55	-7.82	0.00	-636.58	0.00	636.58	3,990.40	1,995.20	8,081.34	4,046.68	1.91	-0.41	0.164
45.09	-28.53	-7.77	0.00	-635.90	0.00	635.90	3,989.32	1,994.66	8,075.70	4,043.85	1.91	-0.41	0.164
50.00	-26.39	-7.67	0.00	-597.75	0.00	597.75	3,927.10	1,963.55	7,757.08	3,884.30	2.36	-0.46	0.161
51.92	-25.57	-7.60	0.00	-583.03	0.00	583.03	3,942.33	1,971.16	7,834.02	3,922.83	2.55	-0.48	0.155
55.00	-24.86	-7.50	0.00	-559.62	0.00	559.62	3,902.73	1,951.36	7,635.30	3,823.33	2.87	-0.51	0.153
60.00	-23.72	-7.37	0.00	-522.14	0.00	522.14	3,837.05	1,918.52	7,315.25	3,663.06	3.43	-0.56	0.149
65.00	-22.61	-7.23	0.00	-485.31	0.00	485.31	3,769.65	1,884.82	6,998.55	3,504.48	4.04	-0.61	0.144
70.00	-21.52	-7.10	0.00	-449.14	0.00	449.14	3,700.53	1,850.26	6,685.47	3,347.71	4.70	-0.65	0.140
75.00	-20.46	-6.97	0.00	-413.64	0.00	413.64	3,629.69	1,814.84	6,376.27	3,192.88	5.42	-0.70	0.135
80.00	-19.42	-6.84	0.00	-378.79	0.00	378.79	3,557.12	1,778.56	6,071.21	3,040.12	6.18	-0.75	0.130
85.00	-18.40	-6.71	0.00	-344.59	0.00	344.59	3,482.83	1,741.42	5,770.54	2,889.56	6.99	-0.80	0.125
90.00	-17.42	-6.63	0.00	-311.05	0.00	311.05	3,406.82	1,703.41	5,474.52	2,741.33	7.85	-0.84	0.119
90.71	-17.28	-6.57	0.00	-306.33	0.00	306.33	3,395.84	1,697.92	5,432.68	2,720.38	7.97	-0.85	0.118
95.00	-15.88	-6.48	0.00	-278.17	0.00	278.17	3,329.09	1,664.55	5,183.41	2,595.56	8.76	-0.89	0.112
96.30	-15.47	-6.42	0.00	-269.77	0.00	269.77	2,649.38	1,324.69	4,172.95	2,089.58	9.00	-0.90	0.135
100.00	-14.86	-6.31	0.00	-246.00	0.00	246.00	2,607.49	1,303.74	4,010.55	2,008.26	9.72	-0.94	0.128
105.00	-14.05	-6.18	0.00	-214.46	0.00	214.46	2,549.43	1,274.72	3,793.98	1,899.81	10.72	-0.99	0.118
110.00	-11.80	-5.22	0.00	-183.54	0.00	183.54	2,489.65	1,244.83	3,580.72	1,793.02	11.78	-1.03	0.107
115.00	-11.06	-5.10	0.00	-157.43	0.00	157.43	2,428.15	1,214.08	3,371.05	1,688.03	12.89	-1.08	0.098
120.00	-10.33	-5.01	0.00	-131.94	0.00	131.94	2,364.93	1,182.47	3,165.21	1,584.96	14.05	-1.12	0.088
122.00	-9.86	-4.79	0.00	-121.76	0.00	121.76	2,339.16	1,169.58	3,084.00	1,544.29	14.52	-1.14	0.083
125.00	-9.44	-4.70	0.00	-107.38	0.00	107.38	2,299.99	1,149.99	2,963.46	1,483.93	15.24	-1.16	0.076
130.00	-8.76	-4.59	0.00	-83.87	0.00	83.87	2,226.60	1,113.30	2,757.75	1,380.92	16.48	-1.20	0.065
135.00	-8.10	-4.48	0.00	-60.94	0.00	60.94	2,137.76	1,068.88	2,540.99	1,272.38	17.75	-1.23	0.052
139.18	-7.57	-4.42	0.00	-42.23	0.00	42.23	2,063.55	1,031.78	2,366.73	1,185.12	18.83	-1.25	0.039
140.00	-4.94	-3.33	0.00	-38.60	0.00	38.60	2,048.92	1,024.46	2,333.10	1,168.29	19.05	-1.25	0.035
143.34	-4.39	-3.27	0.00	-27.47	0.00	27.47	1,066.86	533.43	1,206.73	604.26	19.93	-1.26	0.050
145.00	-4.27	-3.21	0.00	-22.06	0.00	22.06	1,057.77	528.89	1,178.96	590.35	20.37	-1.27	0.041
149.00	0.00	-3.11	0.00	-9.22	0.00	9.22	1,035.06	517.53	1,112.30	556.98	21.43	-1.28	0.017

Site Number: 413783

Code: ANSI/TIA-222-G

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Site Name: Kent Pcs CT, CT

Engineering Number: OAA692603_C3_01

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Customer: AT&T Mobility

Equivalent Lateral Forces Method Analysis

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

Spectral Response Acceleration for Short Period (S_s):	0.19
Spectral Response Acceleration at 1.0 Second Period (S_1):	0.06
Long-Period Transition Period (T_L):	6
Importance Factor (I_E):	1.00
Site Coefficient F_a :	1.60
Site Coefficient F_v :	2.40
Response Modification Coefficient (R):	1.50
Design Spectral Response Acceleration at Short Period (S_{ds}):	0.20
Design Spectral Response Acceleration at 1.0 Second Period (S_{d1}):	0.10
Seismic Response Coefficient (C_s):	0.03
Upper Limit C_s	0.03
Lower Limit C_s	0.03
Period based on Rayleigh Method (sec):	2.01
Redundancy Factor (p):	1.30
Seismic Force Distribution Exponent (k):	1.76
Total Unfactored Dead Load:	40.20 k
Seismic Base Shear (E):	1.66 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)
37	147.00	279	1,776	0.017	28	346
36	144.17	118	725	0.007	11	146
35	141.67	551	3,290	0.031	51	683
34	139.59	151	879	0.008	14	187
33	137.09	534	3,014	0.028	47	663
32	132.50	658	3,498	0.033	54	817
31	127.50	679	3,370	0.031	52	842
30	123.50	417	1,958	0.018	30	517
29	121.00	284	1,287	0.012	20	352
28	117.50	724	3,116	0.029	48	899
27	112.50	745	2,968	0.028	46	924
26	107.50	782	2,878	0.027	45	970
25	102.50	802	2,716	0.025	42	995
24	98.15	607	1,905	0.018	30	753
23	95.65	414	1,241	0.012	19	513
22	92.86	1,390	3,955	0.037	61	1,724
21	90.36	139	376	0.004	6	172
20	87.50	986	2,528	0.024	39	1,223
19	82.50	1,010	2,336	0.022	36	1,253
18	77.50	1,035	2,144	0.020	33	1,284
17	72.50	1,059	1,952	0.018	30	1,314
16	67.50	1,084	1,762	0.016	27	1,344
15	62.50	1,108	1,574	0.015	24	1,374

Site Number: 413783

Code: ANSI/TIA-222-G

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Site Name: Kent Pcs CT, CT

Engineering Number: OAA692603_C3_01

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Customer: AT&T Mobility

14	57.50	1,133	1,390	0.013	22	1,405
13	53.46	710	766	0.007	12	880
12	50.96	819	813	0.008	13	1,016
11	47.54	2,129	1,871	0.017	29	2,641
10	45.04	20	16	0.000	0	25
9	42.50	1,191	859	0.008	13	1,477
8	37.50	1,215	704	0.007	11	1,507
7	32.50	1,239	559	0.005	9	1,537
6	27.50	1,264	425	0.004	7	1,568
5	22.50	1,288	304	0.003	5	1,598
4	17.50	1,313	200	0.002	3	1,628
3	12.50	1,337	113	0.001	2	1,658
2	7.50	1,361	47	0.000	1	1,689
1	2.50	1,386	7	0.000	0	1,719
3' Yagi	149.00	10	65	0.001	1	12
Amphenol Antel LPA-1	149.00	32	206	0.002	3	39
RFS Celwave PD220	149.00	50	326	0.003	5	62
Antel BXA-70063/6CF_	149.00	51	333	0.003	5	63
Antel LPA-80080/6CF	149.00	126	822	0.008	13	156
Flat Low Profile Pla	149.00	1,500	9,790	0.091	152	1,860
VZW Unused Reserve:	149.00	2,292	14,956	0.140	232	2,842
Andrew ABT-DFDM-ADB	140.00	1	6	0.000	0	1
Powerwave Allgon TT1	140.00	96	562	0.005	9	119
Powerwave Allgon TT0	140.00	66	386	0.004	6	82
Raycap DC6-48-60-18-	140.00	20	117	0.001	2	25
Ericsson RRUS A2 Mod	140.00	64	372	0.003	6	79
Ericsson RRUS 32 B2	140.00	159	930	0.009	14	197
Ericsson RRUS-11	140.00	165	965	0.009	15	205
Andrew SBNHH-1D65A (	140.00	67	392	0.004	6	83
Powerwave Allgon P90	140.00	318	1,860	0.017	29	394
CCI HPA-65R-BUU-H6	140.00	51	298	0.003	5	63
Round Low Profile PI	140.00	1,500	8,776	0.082	136	1,860
Decibel DB222	122.00	32	147	0.001	2	40
Stand Off	122.00	150	689	0.006	11	186
3' Yagi	122.00	10	46	0.000	1	12
Symmetricom 58532A	110.00	0	2	0.000	0	0
Ericsson RRUS 11 B12	110.00	152	583	0.005	9	189
Ericsson RRUS 11 B4	110.00	152	583	0.005	9	189
Ericsson RRUS 11 B2	110.00	152	583	0.005	9	189
RFS APX16DWV-16DWVS-	110.00	122	468	0.004	7	151
Commscope LNX-6515DS	110.00	151	578	0.005	9	187
Flat T-Arm	110.00	750	2,873	0.027	45	930
		40,200	107,034	1.000	1,663	49,861

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)
37	147.00	279	1,776	0.017	28	240
36	144.17	118	725	0.007	11	101
35	141.67	551	3,290	0.031	51	473
34	139.59	151	879	0.008	14	130
33	137.09	534	3,014	0.028	47	459
32	132.50	658	3,498	0.033	54	566
31	127.50	679	3,370	0.031	52	584
30	123.50	417	1,958	0.018	30	359
29	121.00	284	1,287	0.012	20	244
28	117.50	724	3,116	0.029	48	623
27	112.50	745	2,968	0.028	46	640
26	107.50	782	2,878	0.027	45	672

Site Number: 413783

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Site Name: Kent Pcs CT, CT

Engineering Number: OAA692603_C3_01

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Customer: AT&T Mobility

25	102.50	802	2,716	0.025	42	690
24	98.15	607	1,905	0.018	30	522
23	95.65	414	1,241	0.012	19	356
22	92.86	1,390	3,955	0.037	61	1,195
21	90.36	139	376	0.004	6	119
20	87.50	986	2,528	0.024	39	848
19	82.50	1,010	2,336	0.022	36	869
18	77.50	1,035	2,144	0.020	33	890
17	72.50	1,059	1,952	0.018	30	911
16	67.50	1,084	1,762	0.016	27	932
15	62.50	1,108	1,574	0.015	24	953
14	57.50	1,133	1,390	0.013	22	974
13	53.46	710	766	0.007	12	610
12	50.96	819	813	0.008	13	704
11	47.54	2,129	1,871	0.017	29	1,830
10	45.04	20	16	0.000	0	18
9	42.50	1,191	859	0.008	13	1,024
8	37.50	1,215	704	0.007	11	1,044
7	32.50	1,239	559	0.005	9	1,065
6	27.50	1,264	425	0.004	7	1,086
5	22.50	1,288	304	0.003	5	1,107
4	17.50	1,313	200	0.002	3	1,128
3	12.50	1,337	113	0.001	2	1,149
2	7.50	1,361	47	0.000	1	1,170
1	2.50	1,386	7	0.000	0	1,191
3' Yagi	149.00	10	65	0.001	1	9
Amphenol Antel LPA-1	149.00	32	206	0.002	3	27
RFS Celwave PD220	149.00	50	326	0.003	5	43
Antel BXA-70063/6CF_	149.00	51	333	0.003	5	44
Antel LPA-80080/6CF	149.00	126	822	0.008	13	108
Flat Low Profile Pla	149.00	1,500	9,790	0.091	152	1,290
VZW Unused Reserve:	149.00	2,292	14,956	0.140	232	1,970
Andrew ABT-DFDM-ADB	140.00	1	6	0.000	0	1
Powerwave Allgon TT1	140.00	96	562	0.005	9	83
Powerwave Allgon TT0	140.00	66	386	0.004	6	57
Raycap DC6-48-60-18-	140.00	20	117	0.001	2	17
Ericsson RRUS A2 Mod	140.00	64	372	0.003	6	55
Ericsson RRUS 32 B2	140.00	159	930	0.009	14	137
Ericsson RRUS-11	140.00	165	965	0.009	15	142
Andrew SBNHH-1D65A (	140.00	67	392	0.004	6	58
Powerwave Allgon P90	140.00	318	1,860	0.017	29	273
CCI HPA-65R-BUU-H6	140.00	51	298	0.003	5	44
Round Low Profile PI	140.00	1,500	8,776	0.082	136	1,290
Decibel DB222	122.00	32	147	0.001	2	28
Stand Off	122.00	150	689	0.006	11	129
3' Yagi	122.00	10	46	0.000	1	9
Symmetricon 58532A	110.00	0	2	0.000	0	0
Ericsson RRUS 11 B12	110.00	152	583	0.005	9	131
Ericsson RRUS 11 B4	110.00	152	583	0.005	9	131
Ericsson RRUS 11 B2	110.00	152	583	0.005	9	131
RFS APX16DWV-16DWVS-	110.00	122	468	0.004	7	105
Commscope LNX-6515DS	110.00	151	578	0.005	9	130
Flat T-Arm	110.00	750	2,873	0.027	45	645
		40,200	107,034	1.000	1,663	34,559

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

Seismic Equivalent Lateral Forces Method

Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-48.14	-1.67	0.00	-201.51	0.00	201.51	4,482.64	2,241.32	11,092.4	5,554.46	0.00	0.00	0.047
5.00	-46.45	-1.67	0.00	-193.18	0.00	193.18	4,434.84	2,217.42	10,752.7	5,384.36	0.00	-0.01	0.046
10.00	-44.79	-1.68	0.00	-184.81	0.00	184.81	4,385.31	2,192.65	10,413.7	5,214.59	0.02	-0.02	0.046
15.00	-43.17	-1.68	0.00	-176.43	0.00	176.43	4,334.06	2,167.03	10,075.6	5,045.30	0.04	-0.03	0.045
20.00	-41.57	-1.68	0.00	-168.02	0.00	168.02	4,281.09	2,140.54	9,738.73	4,876.60	0.07	-0.04	0.044
25.00	-40.00	-1.68	0.00	-159.62	0.00	159.62	4,226.40	2,113.20	9,403.31	4,708.64	0.12	-0.04	0.043
30.00	-38.46	-1.68	0.00	-151.22	0.00	151.22	4,169.98	2,084.99	9,069.60	4,541.54	0.17	-0.05	0.043
35.00	-36.96	-1.67	0.00	-142.83	0.00	142.83	4,111.84	2,055.92	8,737.86	4,375.42	0.23	-0.06	0.042
40.00	-35.48	-1.66	0.00	-134.48	0.00	134.48	4,051.98	2,025.99	8,408.36	4,210.43	0.30	-0.07	0.041
45.00	-35.45	-1.66	0.00	-126.18	0.00	126.18	3,990.40	1,995.20	8,081.34	4,046.68	0.38	-0.08	0.040
45.09	-32.81	-1.63	0.00	-126.04	0.00	126.04	3,989.32	1,994.66	8,075.70	4,043.85	0.38	-0.08	0.039
50.00	-31.80	-1.62	0.00	-118.01	0.00	118.01	3,927.10	1,963.55	7,757.08	3,884.30	0.47	-0.09	0.038
51.92	-30.92	-1.61	0.00	-114.89	0.00	114.89	3,942.33	1,971.16	7,834.02	3,922.83	0.51	-0.10	0.037
55.00	-29.51	-1.59	0.00	-109.93	0.00	109.93	3,902.73	1,951.36	7,635.30	3,823.33	0.57	-0.10	0.036
60.00	-28.14	-1.57	0.00	-101.97	0.00	101.97	3,837.05	1,918.52	7,315.25	3,663.06	0.69	-0.11	0.035
65.00	-26.79	-1.54	0.00	-94.12	0.00	94.12	3,769.65	1,884.82	6,998.55	3,504.48	0.81	-0.12	0.034
70.00	-25.48	-1.52	0.00	-86.40	0.00	86.40	3,700.53	1,850.26	6,685.47	3,347.71	0.94	-0.13	0.033
75.00	-24.19	-1.48	0.00	-78.82	0.00	78.82	3,629.69	1,814.84	6,376.27	3,192.88	1.08	-0.14	0.031
80.00	-22.94	-1.45	0.00	-71.41	0.00	71.41	3,557.12	1,778.56	6,071.21	3,040.12	1.23	-0.15	0.030
85.00	-21.72	-1.41	0.00	-64.18	0.00	64.18	3,482.83	1,741.42	5,770.54	2,889.56	1.39	-0.16	0.028
90.00	-21.55	-1.40	0.00	-57.14	0.00	57.14	3,406.82	1,703.41	5,474.52	2,741.33	1.56	-0.17	0.027
90.71	-19.82	-1.34	0.00	-56.14	0.00	56.14	3,395.84	1,697.92	5,432.68	2,720.38	1.58	-0.17	0.026
95.00	-19.31	-1.32	0.00	-50.40	0.00	50.40	3,329.09	1,664.55	5,183.41	2,595.56	1.73	-0.17	0.025
96.30	-18.55	-1.29	0.00	-48.69	0.00	48.69	2,649.38	1,324.69	4,172.95	2,089.58	1.78	-0.18	0.030
100.00	-17.56	-1.25	0.00	-43.92	0.00	43.92	2,607.49	1,303.74	4,010.55	2,008.26	1.92	-0.18	0.029
105.00	-16.59	-1.20	0.00	-37.69	0.00	37.69	2,549.43	1,274.72	3,793.98	1,899.81	2.12	-0.19	0.026
110.00	-13.83	-1.06	0.00	-31.69	0.00	31.69	2,489.65	1,244.83	3,580.72	1,793.02	2.32	-0.20	0.023
115.00	-12.93	-1.01	0.00	-26.40	0.00	26.40	2,428.15	1,214.08	3,371.05	1,688.03	2.53	-0.21	0.021
120.00	-12.58	-0.99	0.00	-21.36	0.00	21.36	2,364.93	1,182.47	3,165.21	1,584.96	2.76	-0.21	0.019
122.00	-11.82	-0.94	0.00	-19.38	0.00	19.38	2,339.16	1,169.58	3,084.00	1,544.29	2.85	-0.22	0.018
125.00	-10.98	-0.89	0.00	-16.56	0.00	16.56	2,299.99	1,149.99	2,963.46	1,483.93	2.98	-0.22	0.016
130.00	-10.17	-0.83	0.00	-12.12	0.00	12.12	2,226.60	1,113.30	2,757.75	1,380.92	3.22	-0.23	0.013
135.00	-9.50	-0.78	0.00	-7.97	0.00	7.97	2,137.76	1,068.88	2,540.99	1,272.38	3.46	-0.23	0.011
139.18	-9.32	-0.77	0.00	-4.71	0.00	4.71	2,063.55	1,031.78	2,366.73	1,185.12	3.66	-0.23	0.008
140.00	-5.53	-0.47	0.00	-4.08	0.00	4.08	2,048.92	1,024.46	2,333.10	1,168.29	3.70	-0.23	0.006
143.34	-5.38	-0.46	0.00	-2.49	0.00	2.49	1,066.86	533.43	1,206.73	604.26	3.86	-0.23	0.009
145.00	-5.03	-0.43	0.00	-1.73	0.00	1.73	1,057.77	528.89	1,178.96	590.35	3.94	-0.23	0.008
149.00	0.00	-0.41	0.00	0.00	0.00	0.00	1,035.06	517.53	1,112.30	556.98	4.14	-0.23	0.000

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Site Name: Kent Pcs CT, CT

Engineering Number: OAA692603_C3_01

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Customer: AT&T Mobility

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

Seismic (Reduced DL) Equivalent Lateral Forces Method

Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-33.37	-1.67	0.00	-199.46	0.00	199.46	4,482.64	2,241.32	11,092.4	5,554.46	0.00	0.00	0.043
5.00	-32.20	-1.67	0.00	-191.14	0.00	191.14	4,434.84	2,217.42	10,752.7	5,384.36	0.00	-0.01	0.043
10.00	-31.05	-1.67	0.00	-182.79	0.00	182.79	4,385.31	2,192.65	10,413.7	5,214.59	0.02	-0.02	0.042
15.00	-29.92	-1.67	0.00	-174.43	0.00	174.43	4,334.06	2,167.03	10,075.6	5,045.30	0.04	-0.03	0.041
20.00	-28.81	-1.67	0.00	-166.06	0.00	166.06	4,281.09	2,140.54	9,738.73	4,876.60	0.07	-0.03	0.041
25.00	-27.72	-1.67	0.00	-157.70	0.00	157.70	4,226.40	2,113.20	9,403.31	4,708.64	0.11	-0.04	0.040
30.00	-26.66	-1.66	0.00	-149.36	0.00	149.36	4,169.98	2,084.99	9,069.60	4,541.54	0.17	-0.05	0.039
35.00	-25.61	-1.66	0.00	-141.04	0.00	141.04	4,111.84	2,055.92	8,737.86	4,375.42	0.23	-0.06	0.038
40.00	-24.59	-1.65	0.00	-132.75	0.00	132.75	4,051.98	2,025.99	8,408.36	4,210.43	0.30	-0.07	0.038
45.00	-24.57	-1.65	0.00	-124.52	0.00	124.52	3,990.40	1,995.20	8,081.34	4,046.68	0.38	-0.08	0.037
45.09	-22.74	-1.62	0.00	-124.38	0.00	124.38	3,989.32	1,994.66	8,075.70	4,043.85	0.38	-0.08	0.036
50.00	-22.04	-1.61	0.00	-116.43	0.00	116.43	3,927.10	1,963.55	7,757.08	3,884.30	0.47	-0.09	0.036
51.92	-21.43	-1.60	0.00	-113.35	0.00	113.35	3,942.33	1,971.16	7,834.02	3,922.83	0.50	-0.09	0.034
55.00	-20.45	-1.58	0.00	-108.43	0.00	108.43	3,902.73	1,951.36	7,635.30	3,823.33	0.57	-0.10	0.034
60.00	-19.50	-1.55	0.00	-100.56	0.00	100.56	3,837.05	1,918.52	7,315.25	3,663.06	0.68	-0.11	0.033
65.00	-18.57	-1.53	0.00	-92.80	0.00	92.80	3,769.65	1,884.82	6,998.55	3,504.48	0.80	-0.12	0.031
70.00	-17.66	-1.50	0.00	-85.17	0.00	85.17	3,700.53	1,850.26	6,685.47	3,347.71	0.93	-0.13	0.030
75.00	-16.77	-1.46	0.00	-77.69	0.00	77.69	3,629.69	1,814.84	6,376.27	3,192.88	1.07	-0.14	0.029
80.00	-15.90	-1.43	0.00	-70.37	0.00	70.37	3,557.12	1,778.56	6,071.21	3,040.12	1.21	-0.15	0.028
85.00	-15.05	-1.39	0.00	-63.24	0.00	63.24	3,482.83	1,741.42	5,770.54	2,889.56	1.37	-0.15	0.026
90.00	-14.93	-1.38	0.00	-56.29	0.00	56.29	3,406.82	1,703.41	5,474.52	2,741.33	1.54	-0.16	0.025
90.71	-13.74	-1.32	0.00	-55.31	0.00	55.31	3,395.84	1,697.92	5,432.68	2,720.38	1.56	-0.16	0.024
95.00	-13.38	-1.30	0.00	-49.65	0.00	49.65	3,329.09	1,664.55	5,183.41	2,595.56	1.71	-0.17	0.023
96.30	-12.86	-1.27	0.00	-47.97	0.00	47.97	2,649.38	1,324.69	4,172.95	2,089.58	1.76	-0.17	0.028
100.00	-12.17	-1.23	0.00	-43.26	0.00	43.26	2,607.49	1,303.74	4,010.55	2,008.26	1.90	-0.18	0.026
105.00	-11.50	-1.18	0.00	-37.13	0.00	37.13	2,549.43	1,274.72	3,793.98	1,899.81	2.09	-0.19	0.024
110.00	-9.59	-1.04	0.00	-31.22	0.00	31.22	2,489.65	1,244.83	3,580.72	1,793.02	2.29	-0.20	0.021
115.00	-8.96	-0.99	0.00	-26.00	0.00	26.00	2,428.15	1,214.08	3,371.05	1,688.03	2.50	-0.20	0.019
120.00	-8.72	-0.97	0.00	-21.03	0.00	21.03	2,364.93	1,182.47	3,165.21	1,584.96	2.72	-0.21	0.017
122.00	-8.19	-0.93	0.00	-19.09	0.00	19.09	2,339.16	1,169.58	3,084.00	1,544.29	2.81	-0.21	0.016
125.00	-7.61	-0.87	0.00	-16.31	0.00	16.31	2,299.99	1,149.99	2,963.46	1,483.93	2.95	-0.22	0.014
130.00	-7.05	-0.82	0.00	-11.94	0.00	11.94	2,226.60	1,113.30	2,757.75	1,380.92	3.18	-0.22	0.012
135.00	-6.59	-0.77	0.00	-7.85	0.00	7.85	2,137.76	1,068.88	2,540.99	1,272.38	3.41	-0.23	0.009
139.18	-6.46	-0.76	0.00	-4.64	0.00	4.64	2,063.55	1,031.78	2,366.73	1,185.12	3.61	-0.23	0.007
140.00	-3.83	-0.47	0.00	-4.01	0.00	4.01	2,048.92	1,024.46	2,333.10	1,168.29	3.65	-0.23	0.005
143.34	-3.73	-0.45	0.00	-2.46	0.00	2.46	1,066.86	533.43	1,206.73	604.26	3.81	-0.23	0.008
145.00	-3.49	-0.43	0.00	-1.70	0.00	1.70	1,057.77	528.89	1,178.96	590.35	3.89	-0.23	0.006
149.00	0.00	-0.41	0.00	0.00	0.00	0.00	1,035.06	517.53	1,112.30	556.98	4.09	-0.23	0.000

Site Number: 413783

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Site Name: Kent Pcs CT, CT

Engineering Number: OAA692603_C3_01

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Customer: AT&T Mobility

Equivalent Modal Forces Analysis

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

Spectral Response Acceleration for Short Period (S_s):	0.19
Spectral Response Acceleration at 1.0 Second Period (S_1):	0.06
Importance Factor (I_E):	1.00
Site Coefficient F_a :	1.60
Site Coefficient F_v :	2.40
Response Modification Coefficient (R):	1.50
Design Spectral Response Acceleration at Short Period (S_{ds}):	0.20
Design Spectral Response Acceleration at 1.0 Second Period (S_{d1}):	0.10
Period Based on Rayleigh Method (sec):	2.01
Redundancy Factor (ρ):	1.30

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

Seismic Equivalent Modal Analysis Method

Segment	Height Above Base (ft)	Weight (lb)	a	b	c	Saz	Horizontal Force (lb)	Vertical Force (lb)
37	147.00	279	1.840	1.725	1.047	0.351	85	346
36	144.17	118	1.769	1.403	0.926	0.306	31	146
35	141.67	551	1.709	1.155	0.828	0.268	128	683
34	139.59	151	1.659	0.972	0.753	0.239	31	187
33	137.09	534	1.600	0.778	0.670	0.205	95	663
32	132.50	658	1.495	0.488	0.536	0.150	85	817
31	127.50	679	1.384	0.254	0.415	0.097	57	842
30	123.50	417	1.298	0.118	0.335	0.062	22	517
29	121.00	284	1.246	0.053	0.291	0.042	10	352
28	117.50	724	1.175	-0.017	0.237	0.018	11	899
27	112.50	745	1.077	-0.082	0.173	-0.009	-6	924
26	107.50	782	0.984	-0.114	0.123	-0.028	-19	970
25	102.50	802	0.894	-0.122	0.085	-0.038	-27	995
24	98.15	607	0.820	-0.115	0.060	-0.041	-22	753
23	95.65	414	0.779	-0.108	0.048	-0.040	-14	513
22	92.86	1,390	0.734	-0.097	0.037	-0.037	-44	1,724
21	90.36	139	0.695	-0.085	0.029	-0.032	-4	172
20	87.50	986	0.652	-0.071	0.021	-0.025	-21	1,223
19	82.50	1,010	0.579	-0.045	0.012	-0.010	-9	1,253
18	77.50	1,035	0.511	-0.020	0.008	0.007	6	1,284
17	72.50	1,059	0.447	0.002	0.006	0.022	20	1,314
16	67.50	1,084	0.388	0.022	0.007	0.035	33	1,344
15	62.50	1,108	0.333	0.037	0.010	0.044	42	1,374
14	57.50	1,133	0.281	0.049	0.014	0.050	49	1,405
13	53.46	710	0.243	0.056	0.018	0.052	32	880
12	50.96	819	0.221	0.060	0.021	0.053	37	1,016
11	47.54	2,129	0.192	0.064	0.024	0.053	98	2,641
10	45.04	20	0.173	0.066	0.027	0.053	1	25
9	42.50	1,191	0.154	0.068	0.030	0.052	54	1,477
8	37.50	1,215	0.120	0.070	0.034	0.051	54	1,507
7	32.50	1,239	0.090	0.071	0.038	0.050	54	1,537
6	27.50	1,264	0.064	0.072	0.041	0.049	53	1,568
5	22.50	1,288	0.043	0.071	0.042	0.047	52	1,598
4	17.50	1,313	0.026	0.067	0.040	0.045	51	1,628

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Site Name: Kent Pcs CT, CT

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3	12.50	1,337	0.013	0.059	0.034	0.040	46	1,658
2	7.50	1,361	0.005	0.044	0.025	0.031	37	1,689
1	2.50	1,386	0.001	0.018	0.010	0.014	17	1,719
3' Yagi	149.00	10	1.890	1.980	1.140	0.385	3	12
Amphenol Antel LPA-1	149.00	32	1.890	1.980	1.140	0.385	10	39
RFS Celwave PD220	149.00	50	1.890	1.980	1.140	0.385	17	62
Antel BXA-70063/6CF_	149.00	51	1.890	1.980	1.140	0.385	17	63
Antel LPA-80080/6CF	149.00	126	1.890	1.980	1.140	0.385	42	156
Flat Low Profile Pla	149.00	1,500	1.890	1.980	1.140	0.385	500	1,860
VZW Unused Reserve:	149.00	2,292	1.890	1.980	1.140	0.385	764	2,842
Andrew ABT-DFDM-ADB	140.00	1	1.669	1.007	0.767	0.244	0	1
Powerwave Allgon TT1	140.00	96	1.669	1.007	0.767	0.244	20	119
Powerwave Allgon TT0	140.00	66	1.669	1.007	0.767	0.244	14	82
Raycap DC6-48-60-18-	140.00	20	1.669	1.007	0.767	0.244	4	25
Ericsson RRUS A2 Mod	140.00	64	1.669	1.007	0.767	0.244	13	79
Ericsson RRUS 32 B2	140.00	159	1.669	1.007	0.767	0.244	34	197
Ericsson RRUS-11	140.00	165	1.669	1.007	0.767	0.244	35	205
Andrew SBNHH-1D65A (	140.00	67	1.669	1.007	0.767	0.244	14	83
Powerwave Allgon P90	140.00	318	1.669	1.007	0.767	0.244	67	394
CCI HPA-65R-BUU-H6	140.00	51	1.669	1.007	0.767	0.244	11	63
Round Low Profile PI	140.00	1,500	1.669	1.007	0.767	0.244	318	1,860
Decibel DB222	122.00	32	1.267	0.077	0.308	0.050	1	40
Stand Off	122.00	150	1.267	0.077	0.308	0.050	6	186
3' Yagi	122.00	10	1.267	0.077	0.308	0.050	0	12
Symmetricom 58532A	110.00	0	1.030	-0.101	0.147	-0.019	0	0
Ericsson RRUS 11 B12	110.00	152	1.030	-0.101	0.147	-0.019	-3	189
Ericsson RRUS 11 B4	110.00	152	1.030	-0.101	0.147	-0.019	-3	189
Ericsson RRUS 11 B2	110.00	152	1.030	-0.101	0.147	-0.019	-3	189
RFS APX16DWV-	110.00	122	1.030	-0.101	0.147	-0.019	-2	151
Commscope LNX-	110.00	151	1.030	-0.101	0.147	-0.019	-3	187
Flat T-Arm	110.00	750	1.030	-0.101	0.147	-0.019	-13	930
		40,200	68.292	31.425	25.425	7.620	2,997	49,861

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)
37	147.00	279	1.840	1.725	1.047	0.351	85	240
36	144.17	118	1.769	1.403	0.926	0.306	31	101
35	141.67	551	1.709	1.155	0.828	0.268	128	473
34	139.59	151	1.659	0.972	0.753	0.239	31	130
33	137.09	534	1.600	0.778	0.670	0.205	95	459
32	132.50	658	1.495	0.488	0.536	0.150	85	566
31	127.50	679	1.384	0.254	0.415	0.097	57	584
30	123.50	417	1.298	0.118	0.335	0.062	22	359
29	121.00	284	1.246	0.053	0.291	0.042	10	244
28	117.50	724	1.175	-0.017	0.237	0.018	11	623
27	112.50	745	1.077	-0.082	0.173	-0.009	-6	640
26	107.50	782	0.984	-0.114	0.123	-0.028	-19	672
25	102.50	802	0.894	-0.122	0.085	-0.038	-27	690
24	98.15	607	0.820	-0.115	0.060	-0.041	-22	522
23	95.65	414	0.779	-0.108	0.048	-0.040	-14	356
22	92.86	1,390	0.734	-0.097	0.037	-0.037	-44	1,195
21	90.36	139	0.695	-0.085	0.029	-0.032	-4	119
20	87.50	986	0.652	-0.071	0.021	-0.025	-21	848
19	82.50	1,010	0.579	-0.045	0.012	-0.010	-9	869
18	77.50	1,035	0.511	-0.020	0.008	0.007	6	890
17	72.50	1,059	0.447	0.002	0.006	0.022	20	911
16	67.50	1,084	0.388	0.022	0.007	0.035	33	932

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Customer: AT&T Mobility

15	62.50	1,108	0.333	0.037	0.010	0.044	42	953
14	57.50	1,133	0.281	0.049	0.014	0.050	49	974
13	53.46	710	0.243	0.056	0.018	0.052	32	610
12	50.96	819	0.221	0.060	0.021	0.053	37	704
11	47.54	2,129	0.192	0.064	0.024	0.053	98	1,830
10	45.04	20	0.173	0.066	0.027	0.053	1	18
9	42.50	1,191	0.154	0.068	0.030	0.052	54	1,024
8	37.50	1,215	0.120	0.070	0.034	0.051	54	1,044
7	32.50	1,239	0.090	0.071	0.038	0.050	54	1,065
6	27.50	1,264	0.064	0.072	0.041	0.049	53	1,086
5	22.50	1,288	0.043	0.071	0.042	0.047	52	1,107
4	17.50	1,313	0.026	0.067	0.040	0.045	51	1,128
3	12.50	1,337	0.013	0.059	0.034	0.040	46	1,149
2	7.50	1,361	0.005	0.044	0.025	0.031	37	1,170
1	2.50	1,386	0.001	0.018	0.010	0.014	17	1,191
3' Yagi	149.00	10	1.890	1.980	1.140	0.385	3	9
Amphenol Antel LPA-1	149.00	32	1.890	1.980	1.140	0.385	10	27
RFS Celwave PD220	149.00	50	1.890	1.980	1.140	0.385	17	43
Antel BXA-70063/6CF_	149.00	51	1.890	1.980	1.140	0.385	17	44
Antel LPA-80080/6CF	149.00	126	1.890	1.980	1.140	0.385	42	108
Flat Low Profile Pla	149.00	1,500	1.890	1.980	1.140	0.385	500	1,290
VZW Unused Reserve:	149.00	2,292	1.890	1.980	1.140	0.385	764	1,970
Andrew ABT-DFDM-ADB	140.00	1	1.669	1.007	0.767	0.244	0	1
Powerwave Allgon TT1	140.00	96	1.669	1.007	0.767	0.244	20	83
Powerwave Allgon TT0	140.00	66	1.669	1.007	0.767	0.244	14	57
Raycap DC6-48-60-18-	140.00	20	1.669	1.007	0.767	0.244	4	17
Ericsson RRUS A2 Mod	140.00	64	1.669	1.007	0.767	0.244	13	55
Ericsson RRUS 32 B2	140.00	159	1.669	1.007	0.767	0.244	34	137
Ericsson RRUS-11	140.00	165	1.669	1.007	0.767	0.244	35	142
Andrew SBNHH-1D65A (	140.00	67	1.669	1.007	0.767	0.244	14	58
Powerwave Allgon P90	140.00	318	1.669	1.007	0.767	0.244	67	273
CCI HPA-65R-BUU-H6	140.00	51	1.669	1.007	0.767	0.244	11	44
Round Low Profile PI	140.00	1,500	1.669	1.007	0.767	0.244	318	1,290
Decibel DB222	122.00	32	1.267	0.077	0.308	0.050	1	28
Stand Off	122.00	150	1.267	0.077	0.308	0.050	6	129
3' Yagi	122.00	10	1.267	0.077	0.308	0.050	0	9
Symmetricom 58532A	110.00	0	1.030	-0.101	0.147	-0.019	0	0
Ericsson RRUS 11 B12	110.00	152	1.030	-0.101	0.147	-0.019	-3	131
Ericsson RRUS 11 B4	110.00	152	1.030	-0.101	0.147	-0.019	-3	131
Ericsson RRUS 11 B2	110.00	152	1.030	-0.101	0.147	-0.019	-3	131
RFS APX16DWV-	110.00	122	1.030	-0.101	0.147	-0.019	-2	105
Commscope LNX-	110.00	151	1.030	-0.101	0.147	-0.019	-3	130
Flat T-Arm	110.00	750	1.030	-0.101	0.147	-0.019	-13	645
		40,200	68.292	31.425	25.425	7.620	2,997	34,559

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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	-48.14	-2.99	0.00	-373.55	0.00	373.55	4,482.64	2,241.32	11,092.4	5,554.46	0.00	0.00	0.078
5.00	-46.45	-2.96	0.00	-358.62	0.00	358.62	4,434.84	2,217.42	10,752.7	5,384.36	0.01	-0.02	0.077
10.00	-44.79	-2.93	0.00	-343.82	0.00	343.82	4,385.31	2,192.65	10,413.7	5,214.59	0.03	-0.03	0.076
15.00	-43.16	-2.89	0.00	-329.18	0.00	329.18	4,334.06	2,167.03	10,075.6	5,045.30	0.08	-0.05	0.075
20.00	-41.57	-2.85	0.00	-314.75	0.00	314.75	4,281.09	2,140.54	9,738.73	4,876.60	0.14	-0.07	0.074
25.00	-40.00	-2.80	0.00	-300.52	0.00	300.52	4,226.40	2,113.20	9,403.31	4,708.64	0.21	-0.08	0.073
30.00	-38.46	-2.76	0.00	-286.50	0.00	286.50	4,169.98	2,084.99	9,069.60	4,541.54	0.31	-0.10	0.072
35.00	-36.95	-2.71	0.00	-272.71	0.00	272.71	4,111.84	2,055.92	8,737.86	4,375.42	0.43	-0.12	0.071
40.00	-35.47	-2.67	0.00	-259.15	0.00	259.15	4,051.98	2,025.99	8,408.36	4,210.43	0.56	-0.14	0.070
45.00	-35.45	-2.67	0.00	-245.82	0.00	245.82	3,990.40	1,995.20	8,081.34	4,046.68	0.71	-0.16	0.070
45.09	-32.81	-2.57	0.00	-245.58	0.00	245.58	3,989.32	1,994.66	8,075.70	4,043.85	0.71	-0.16	0.069
50.00	-31.79	-2.54	0.00	-232.95	0.00	232.95	3,927.10	1,963.55	7,757.08	3,884.30	0.88	-0.17	0.068
51.92	-30.91	-2.51	0.00	-228.07	0.00	228.07	3,942.33	1,971.16	7,834.02	3,922.83	0.96	-0.18	0.066
55.00	-29.50	-2.46	0.00	-220.34	0.00	220.34	3,902.73	1,951.36	7,635.30	3,823.33	1.08	-0.19	0.065
60.00	-28.13	-2.43	0.00	-208.02	0.00	208.02	3,837.05	1,918.52	7,315.25	3,663.06	1.29	-0.21	0.064
65.00	-26.79	-2.40	0.00	-195.89	0.00	195.89	3,769.65	1,884.82	6,998.55	3,504.48	1.52	-0.23	0.063
70.00	-25.47	-2.38	0.00	-183.90	0.00	183.90	3,700.53	1,850.26	6,685.47	3,347.71	1.78	-0.25	0.062
75.00	-24.19	-2.38	0.00	-172.00	0.00	172.00	3,629.69	1,814.84	6,376.27	3,192.88	2.05	-0.27	0.061
80.00	-22.93	-2.39	0.00	-160.12	0.00	160.12	3,557.12	1,778.56	6,071.21	3,040.12	2.34	-0.29	0.059
85.00	-21.71	-2.41	0.00	-148.18	0.00	148.18	3,482.83	1,741.42	5,770.54	2,889.56	2.66	-0.31	0.058
90.00	-21.54	-2.42	0.00	-136.13	0.00	136.13	3,406.82	1,703.41	5,474.52	2,741.33	3.00	-0.33	0.056
90.71	-19.81	-2.46	0.00	-134.41	0.00	134.41	3,395.84	1,697.92	5,432.68	2,720.38	3.05	-0.33	0.055
95.00	-19.30	-2.47	0.00	-123.88	0.00	123.88	3,329.09	1,664.55	5,183.41	2,595.56	3.35	-0.35	0.054
96.30	-18.54	-2.49	0.00	-120.68	0.00	120.68	2,649.38	1,324.69	4,172.95	2,089.58	3.45	-0.36	0.065
100.00	-17.55	-2.52	0.00	-111.45	0.00	111.45	2,607.49	1,303.74	4,010.55	2,008.26	3.73	-0.37	0.062
105.00	-16.58	-2.54	0.00	-98.87	0.00	98.87	2,549.43	1,274.72	3,793.98	1,899.81	4.14	-0.40	0.059
110.00	-13.82	-2.55	0.00	-86.19	0.00	86.19	2,489.65	1,244.83	3,580.72	1,793.02	4.56	-0.42	0.054
115.00	-12.92	-2.54	0.00	-73.43	0.00	73.43	2,428.15	1,214.08	3,371.05	1,688.03	5.01	-0.44	0.049
120.00	-12.56	-2.53	0.00	-60.73	0.00	60.73	2,364.93	1,182.47	3,165.21	1,584.96	5.48	-0.46	0.044
122.00	-11.81	-2.49	0.00	-55.68	0.00	55.68	2,339.16	1,169.58	3,084.00	1,544.29	5.68	-0.47	0.041
125.00	-10.97	-2.43	0.00	-48.20	0.00	48.20	2,299.99	1,149.99	2,963.46	1,483.93	5.97	-0.48	0.037
130.00	-10.15	-2.34	0.00	-36.03	0.00	36.03	2,226.60	1,113.30	2,757.75	1,380.92	6.48	-0.49	0.031
135.00	-9.49	-2.24	0.00	-24.32	0.00	24.32	2,137.76	1,068.88	2,540.99	1,272.38	7.00	-0.50	0.024
139.18	-9.30	-2.21	0.00	-14.95	0.00	14.95	2,063.55	1,031.78	2,366.73	1,185.12	7.45	-0.51	0.017
140.00	-5.51	-1.52	0.00	-13.13	0.00	13.13	2,048.92	1,024.46	2,333.10	1,168.29	7.54	-0.51	0.014
143.34	-5.37	-1.49	0.00	-8.06	0.00	8.06	1,066.86	533.43	1,206.73	604.26	7.90	-0.52	0.018
145.00	-5.02	-1.40	0.00	-5.59	0.00	5.59	1,057.77	528.89	1,178.96	590.35	8.08	-0.52	0.014
149.00	0.00	-1.35	0.00	0.00	0.00	0.00	1,035.06	517.53	1,112.30	556.98	8.51	-0.52	0.000

Site Number: 413783

Code: ANSI/TIA-222-G

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Site Name: Kent Pcs CT, CT

Engineering Number: OAA692603_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	-33.37	-2.98	0.00	-369.46	0.00	369.46	4,482.64	2,241.32	11,092.4	5,554.46	0.00	0.00	0.074
5.00	-32.20	-2.95	0.00	-354.54	0.00	354.54	4,434.84	2,217.42	10,752.7	5,384.36	0.01	-0.02	0.073
10.00	-31.05	-2.92	0.00	-339.77	0.00	339.77	4,385.31	2,192.65	10,413.7	5,214.59	0.03	-0.03	0.072
15.00	-29.92	-2.87	0.00	-325.19	0.00	325.19	4,334.06	2,167.03	10,075.6	5,045.30	0.08	-0.05	0.071
20.00	-28.81	-2.83	0.00	-310.82	0.00	310.82	4,281.09	2,140.54	9,738.73	4,876.60	0.14	-0.06	0.070
25.00	-27.72	-2.78	0.00	-296.67	0.00	296.67	4,226.40	2,113.20	9,403.31	4,708.64	0.21	-0.08	0.070
30.00	-26.65	-2.74	0.00	-282.76	0.00	282.76	4,169.98	2,084.99	9,069.60	4,541.54	0.31	-0.10	0.069
35.00	-25.61	-2.69	0.00	-269.09	0.00	269.09	4,111.84	2,055.92	8,737.86	4,375.42	0.42	-0.12	0.068
40.00	-24.59	-2.64	0.00	-255.65	0.00	255.65	4,051.98	2,025.99	8,408.36	4,210.43	0.55	-0.13	0.067
45.00	-24.57	-2.64	0.00	-242.46	0.00	242.46	3,990.40	1,995.20	8,081.34	4,046.68	0.70	-0.15	0.066
45.09	-22.74	-2.54	0.00	-242.23	0.00	242.23	3,989.32	1,994.66	8,075.70	4,043.85	0.71	-0.15	0.066
50.00	-22.03	-2.51	0.00	-229.74	0.00	229.74	3,927.10	1,963.55	7,757.08	3,884.30	0.87	-0.17	0.065
51.92	-21.42	-2.48	0.00	-224.92	0.00	224.92	3,942.33	1,971.16	7,834.02	3,922.83	0.94	-0.18	0.063
55.00	-20.45	-2.43	0.00	-217.29	0.00	217.29	3,902.73	1,951.36	7,635.30	3,823.33	1.06	-0.19	0.062
60.00	-19.49	-2.39	0.00	-205.14	0.00	205.14	3,837.05	1,918.52	7,315.25	3,663.06	1.27	-0.21	0.061
65.00	-18.56	-2.36	0.00	-193.18	0.00	193.18	3,769.65	1,884.82	6,998.55	3,504.48	1.50	-0.23	0.060
70.00	-17.65	-2.34	0.00	-181.37	0.00	181.37	3,700.53	1,850.26	6,685.47	3,347.71	1.75	-0.25	0.059
75.00	-16.76	-2.34	0.00	-169.65	0.00	169.65	3,629.69	1,814.84	6,376.27	3,192.88	2.02	-0.27	0.058
80.00	-15.89	-2.35	0.00	-157.95	0.00	157.95	3,557.12	1,778.56	6,071.21	3,040.12	2.31	-0.29	0.056
85.00	-15.04	-2.37	0.00	-146.21	0.00	146.21	3,482.83	1,741.42	5,770.54	2,889.56	2.63	-0.31	0.055
90.00	-14.92	-2.38	0.00	-134.35	0.00	134.35	3,406.82	1,703.41	5,474.52	2,741.33	2.96	-0.33	0.053
90.71	-13.73	-2.42	0.00	-132.65	0.00	132.65	3,395.84	1,697.92	5,432.68	2,720.38	3.01	-0.33	0.053
95.00	-13.37	-2.43	0.00	-122.29	0.00	122.29	3,329.09	1,664.55	5,183.41	2,595.56	3.31	-0.35	0.051
96.30	-12.85	-2.45	0.00	-119.13	0.00	119.13	2,649.38	1,324.69	4,172.95	2,089.58	3.41	-0.35	0.062
100.00	-12.16	-2.48	0.00	-110.05	0.00	110.05	2,607.49	1,303.74	4,010.55	2,008.26	3.69	-0.37	0.059
105.00	-11.48	-2.50	0.00	-97.65	0.00	97.65	2,549.43	1,274.72	3,793.98	1,899.81	4.08	-0.39	0.056
110.00	-9.57	-2.52	0.00	-85.16	0.00	85.16	2,489.65	1,244.83	3,580.72	1,793.02	4.50	-0.41	0.051
115.00	-8.95	-2.51	0.00	-72.56	0.00	72.56	2,428.15	1,214.08	3,371.05	1,688.03	4.95	-0.43	0.047
120.00	-8.70	-2.50	0.00	-60.02	0.00	60.02	2,364.93	1,182.47	3,165.21	1,584.96	5.41	-0.45	0.042
122.00	-8.18	-2.46	0.00	-55.03	0.00	55.03	2,339.16	1,169.58	3,084.00	1,544.29	5.60	-0.46	0.039
125.00	-7.59	-2.40	0.00	-47.64	0.00	47.64	2,299.99	1,149.99	2,963.46	1,483.93	5.90	-0.47	0.035
130.00	-7.03	-2.31	0.00	-35.63	0.00	35.63	2,226.60	1,113.30	2,757.75	1,380.92	6.40	-0.49	0.029
135.00	-6.57	-2.22	0.00	-24.05	0.00	24.05	2,137.76	1,068.88	2,540.99	1,272.38	6.91	-0.50	0.022
139.18	-6.44	-2.18	0.00	-14.80	0.00	14.80	2,063.55	1,031.78	2,366.73	1,185.12	7.35	-0.51	0.016
140.00	-3.82	-1.50	0.00	-13.00	0.00	13.00	2,048.92	1,024.46	2,333.10	1,168.29	7.44	-0.51	0.013
143.34	-3.72	-1.47	0.00	-7.97	0.00	7.97	1,066.86	533.43	1,206.73	604.26	7.80	-0.51	0.017
145.00	-3.48	-1.38	0.00	-5.54	0.00	5.54	1,057.77	528.89	1,178.96	590.35	7.97	-0.51	0.013
149.00	0.00	-1.35	0.00	0.00	0.00	0.00	1,035.06	517.53	1,112.30	556.98	8.40	-0.51	0.000

Site Number: 413783

Code: ANSI/TIA-222-G

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Site Name: Kent Pcs CT, CT

Engineering Number: OAA692603_C3_01

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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	31.65	0.00	48.20	0.00	0.00	3663.06	0.00	0.67
0.9D + 1.6W	31.63	0.00	36.14	0.00	0.00	3631.52	0.00	0.66
1.2D + 1.0Di + 1.0Wi	7.28	0.00	82.51	0.00	0.00	862.97	0.00	0.17
(1.2 + 0.2Sds) * DL + E ELFM	1.67	0.00	48.14	0.00	0.00	201.51	0.00	0.05
(1.2 + 0.2Sds) * DL + E EMAM	2.99	0.00	48.14	0.00	0.00	373.55	0.00	0.08
(0.9 - 0.2Sds) * DL + E ELFM	1.67	0.00	33.37	0.00	0.00	199.46	0.00	0.04
(0.9 - 0.2Sds) * DL + E EMAM	2.98	0.00	33.37	0.00	0.00	369.46	0.00	0.07
1.0D + 1.0W	8.79	0.00	40.20	0.00	0.00	1012.52	0.00	0.19

Site Number: 413783

Code: ANSI/TIA-222-G

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Site Name: Kent Pcs CT, CT

Engineering Number: OAA692603_C3_01

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Customer: AT&T Mobility

Base Summary

Reactions

Original Design			Analysis			
Moment (kip-ft)	Axial (kip)	Shear (kip)	Moment (kip-ft)	Axial (kip)	Shear (kip)	Moment Design %
4,897.90	42.70	39.50	3,663.06	82.51	31.65	74.79

Base Plate

Yield (ksi)	Thick (in)	Width (in)	Style	Poly Sides	Clip Len (in)	Effective Len (in)	Mu (kip-in)	Phi Mn (kip-in)	Ratio
50.0	3.250	75.000	Round	0	0.00	8.001	465.86	950.72	0.49

Anchor Bolts

Bolt Circle	Num Bolts	Bolt Type	Bolt Dia (in)	Yield (ksi)	Ultimate (ksi)	Arrange	Cluster Dist (in)	Start Angle (deg)	Compression			Tension		
									Force (kip)	Allow (kip)	Ratio	Force (kip)	Allow (kip)	Ratio
69.00	24	2.25" 18J	2.25	75.00	100.00	Radial	0.00	0.0	109.61	260.00	0.43	102.74	260.00	0.41



Town of Kent, CT Tax Assessor



Recent Sales in Neighborhood	Previous Parcel	Next Parcel	Field Definitions	Return to Main Search	Kent Home
Owner and Parcel Information					
Owner Name	KENT TOWN OF (TOWN GARAGE)	Today's Date	January 18, 2017		
		Parcel ID	246 (Account #: 4 12 4)		
		Fire District			
Location Address	38 MAPLE ST	Census Tract	00129900		
Map / Block / Lot	4 / 12 / 4	Acreage	10.19		
Use Class / Description	920C Town MDL94	Parcel Map	Show Parcel Map	Owner List By Radius	
Assessing Neighborhood	0001A	Utilities	Public Water,Public Sewer		

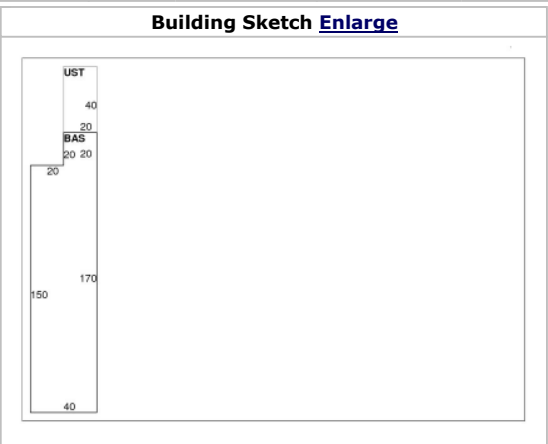
Current Appraised Value Information							
Building Value	XF Value	OB Value	Land Value	Special Land Value	Total Appraised Value	Net Appraised Value	Current Assessment
\$ 188,800	\$ 0	\$ 81,200	\$ 343,600		\$ 613,600	\$ 613,600	\$ 429,500

Assessment History				
Year	Building	OB/Misc	Land	Total Assessment
Current	\$ 132,200	\$ 56,800	\$ 240,500	\$ 429,500
2015	\$ 132,200	\$ 56,800	\$ 240,500	\$ 429,500
2014	\$ 132,200	\$ 56,800	\$ 240,500	\$ 429,500

Land Information				
Use	Class	Zoning	Area	Value
Town MDL94	E	I	2 AC	\$ 241,400
Town MDL94	E		8.19 AC	\$ 102,200

Commercial Building Information										
Style	Year Built	Eff Year Built	Gross Area	Stories	Grade	Exterior Wall	Interior Wall	Wall Height	# Units	
Warehouse	1974	1995	7,200	1	Average	Pre-finish Metl	Drywall/Sheet	14	1	
Roof Cover	Roof Structure	Floor Type	Heat Type	Heat Fuel	AC Type	Sprinkler	Construction	Plumbing	Comm Walls	
Asph/F Gls/Cmp	Gable/Hip	Concr-Finished	Oil	Forced Air-Duc	NONE	%	STEEL	AVERAGE	0%	

Building Sub Areas				
Code	Description	Living Area	Gross Area	Effective Area
BAS	First Floor	6,400	6,400	
UST	Utility, Storage, Unfinished	0	800	
Totals		6,400	7,200	6,640



Building Photo
NA

Out Buildings / Extra Features				
Description	Sub Description	Area	Year Built	Value
SHED METAL		3,360 S.F.		\$ 25,200
TENNIS COURT		2 UNITS		\$ 45,000
IMPLEMENT SHED		800 S.F.		\$ 3,600
IMPLEMENT SHED		1,650 S.F.		\$ 7,400

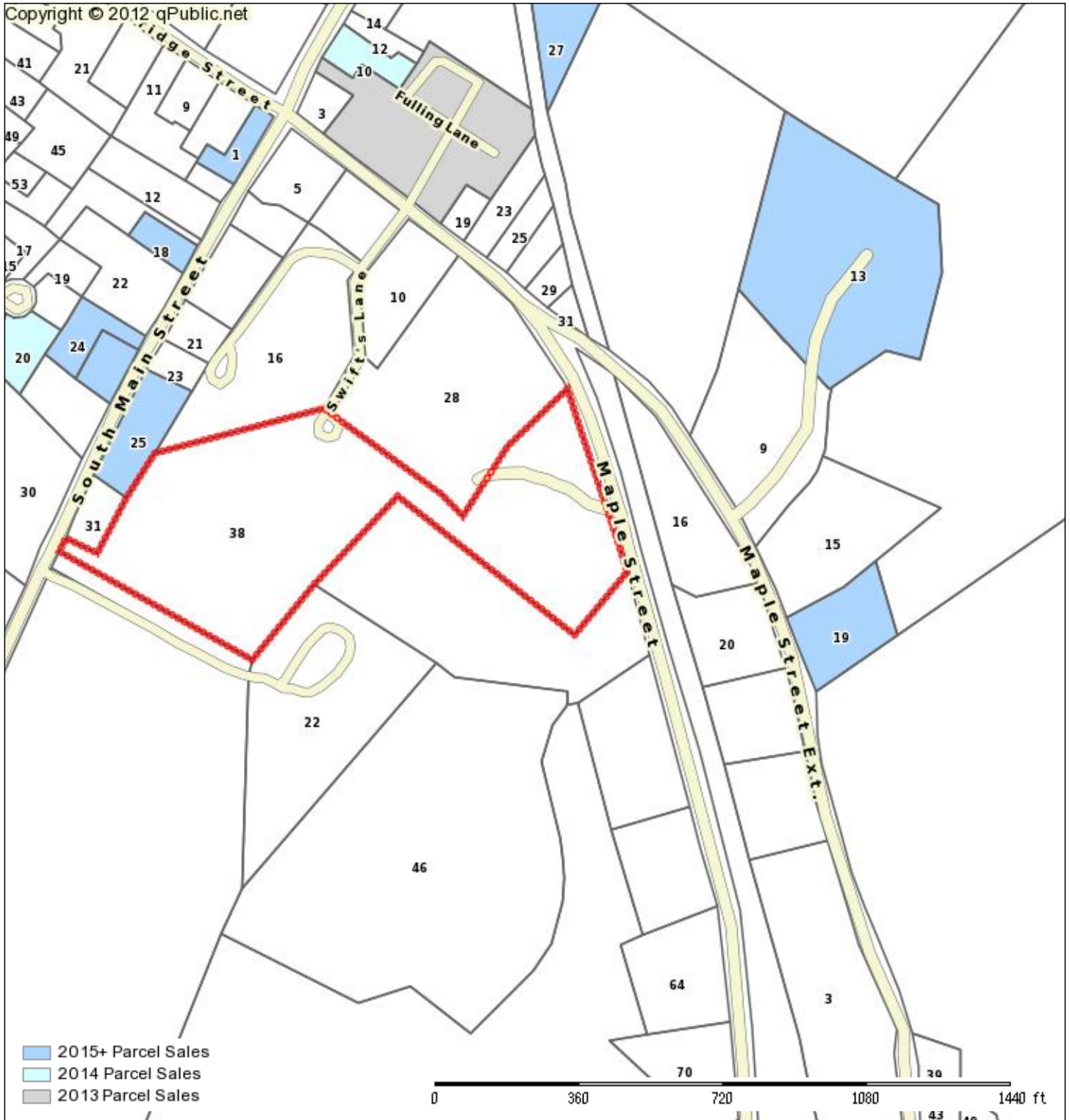
Sale Information

Sale Date	Sale Price	Deed Book/Page	Vacant or Improved	Owner
01/15/1973		61/ 346		KENT TOWN OF (TOWN GARAGE)

<u>Recent Sales in Neighborhood</u>	<u>Previous Parcel</u>	<u>Next Parcel</u>	<u>Field Definitions</u>	<u>Return to Main Search Page</u>	<u>Kent Home</u>
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Town of Kent			
Parcel: 246 Acres: 10.19			
Name:	KENT TOWN OF	Land Value:	343600
Site:	38 MAPLE ST	Improvement Value:	188800
Sale:	\$0 on 1973-01-15 Reason= Qual=U	Accessory Value:	0
Mail:	PO BOX 678	Total Value:	613600
	KENT, CT 06757		



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 Date printed: 01/18/17 : 11:52:55