



1/22/2018

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

Regarding: Notice of Exempt Modification – Antenna Swap
Property Address: 131 Morris Hubbard Road, Haddam, CT 06438
AT&T Site: CTL02031 / FA: 10035050

Dear Ms. Bachman:

On behalf of AT&T, please accept this application as notification pursuant to R.C.S.A. §16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. §16- 50j-72(b) (2).

AT&T currently maintains a wireless telecommunications facility on an existing monopole at the above-referenced address. American Tower Asset Sub II, LLC c/o American Tower, Inc., owns said facility. The site consists of nine (9) wireless telecommunication antennas at an antenna centerline height of 153-feet on an existing 156 -foot monopole tower. AT&T now intends to remove (3) Powerwave 7770 panel antennas on position 4 all sectors, while retaining three (3) Powerwave 7770 panel antennas on position 2, all sectors, one (1) P65-16-XLH-RR panel antenna on position 1 in alpha sector, and two (2) AM-X-CD-16-65-00T-RET at position 1 in beta and gamma sectors. AT&T plans to install three (3) new Quintel QS66512-2 on position 4 all sectors (for a total of (9) panel antennas), at the 153-foot level. AT&T also intends to install three (3) RRU-32 B2, three (3) RRUS-32, and one (1) DC/Fiber surge suppression dome on the existing antenna masts.

Please accept this letter pursuant to Regulation of Connecticut State Agencies §16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-510j-72(b) (2). In accordance with R.C.S.A., a copy of this letter is being sent to Lizz Milardo, First Selectman of the Town of Haddam, Jim Puska, Zoning Enforcement Officer of the Town of Haddam, American Tower, Inc., and Joann Baroni Foristall, Property Owner.

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

1. The proposed modifications will not result in an increase in the height of the existing tower. AT&T's replacement antennas will be installed at the 115-foot level of the 125-foot monopole.
2. The proposed modifications will not involve any changes to ground-mounted equipment and, therefore, will not require an extension of the site boundary.
3. The proposed modifications will not increase the noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.



4. The operation of the modified facility will not increase radio frequency (RF) emissions at the facility to a level at or above the Federal Communications Commission (FCC) safety standard. A cumulative worst-case RF emissions calculation for AT&T's modified facility is provided in the RF Emissions Compliance Report, included.
5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
6. The tower and its foundation can support AT&T's proposed modifications. (See Structural Analysis Report included).

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

Sincerely,

Ryan Lynch
Real Estate Specialist | Smartlink, LLC
85 Rangeway Road, Building 3, Suite 102
North Billerica, MA 01862

Enclosures

CC w/ enclosures:

Lizz Milardo, First Selectman of the Town of Haddam,
Jim Puska, Zoning Enforcement Officer of the Town of Haddam,
American Tower, Inc., Tower Owner
Joann M. Baroni Foristall, Property Owner

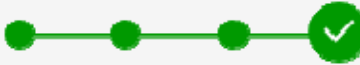
Ryan Lynch

From: TrackingUpdates@fedex.com
Sent: Wednesday, January 17, 2018 3:40 PM
To: Ryan Lynch
Subject: FedEx Shipment 771219163117 Delivered

Your package has been delivered

Tracking # 771219163117


Ship date: Tue, 1/16/2018	Delivery date: Wed, 1/17/2018 3:36 pm
Ryan Lynch Smartlink LLC North Billerica, MA 01862 US	ATTN: Lizz Milardo Town of Haddam 30 Field Park Drive HADDAM, CT 06438 US


Delivered

Shipment Facts

Our records indicate that the following package has been delivered.

Tracking number:	771219163117
Status:	Delivered: 01/17/2018 3:36 PM Signed for By: Signature Not Req
Signed for by:	Signature Not Req
Service type:	FedEx Ground
Packaging type:	Package
Number of pieces:	1
Weight:	1.00 lb.
Standard transit:	1/17/2018

 Please do not respond to this message. This email was sent from an unattended mailbox. This report was generated at approximately 2:39 PM CST on 01/17/2018.

All weights are estimated.

To track the latest status of your shipment, click on the tracking number above.

Standard transit is the date the package should be delivered by, based on the selected service, destination, and ship date. Limitations and exceptions may apply. Please see the FedEx Service Guide for terms and conditions of service, including the FedEx Money-Back Guarantee, or contact your FedEx Customer Support representative.



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Thank you for your business.

Ryan Lynch

From: TrackingUpdates@fedex.com
Sent: Wednesday, January 17, 2018 3:39 PM
To: Ryan Lynch
Subject: FedEx Shipment 771219202015 Delivered

Your package has been delivered

Tracking # 771219202015

Ship date:
Tue, 1/16/2018

Ryan Lynch
Smartlink LLC
North Billerica, MA 01862
US



Delivery date:
Wed, 1/17/2018 3:36 pm

ATTN: Jim Puska
Town of Haddam
30 Field Park Drive
HADDAM, CT 06438
US



Shipment Facts

Our records indicate that the following package has been delivered.

Tracking number:	771219202015
Status:	Delivered: 01/17/2018 3:36 PM Signed for By: Signature Not Req
Signed for by:	Signature Not Req
Service type:	FedEx Ground
Packaging type:	Package
Number of pieces:	1
Weight:	1.00 lb.
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Thank you for your business.

Tracking Number: 9505510019668016163079

Remove X

Expected Delivery on

THURSDAY

18 JANUARY
2018 ⓘ

by
8:00pm ⓘ

Status

 **Delivered**

January 18, 2018 at 12:08 pm
DELIVERED, FRONT DESK/RECEPTION
WOBURN, MA 01801

Get Updates 

Delivered

Text & Email Updates 

Tracking History 

Product Information 

See Less 

Tracking Number: 9505510019668018163923

Remove X

On Time

Expected Delivery on

SATURDAY

20 JANUARY
2018 ⓘ

by
8:00pm ⓘ

Status

 **Delivered**

January 20, 2018 at 11:55 am
Delivered, In/At Mailbox
HIGGANUM, CT 06441

Get Updates 

Delivered

Text & Email Updates



Tracking History



Product Information



See Less 

139 MORRIS HUBBARD RD

Location 139 MORRIS HUBBARD RD

Mblu 34/ 014/ 3/ /

Acct# M0405600

Owner FORISTALL JOANN M BARONI

Assessment \$179,710

Appraisal \$256,730

PID 664

Building Count 1

Current Value

Appraisal			
Valuation Year	Improvements	Land	Total
2016	\$163,640	\$93,090	\$256,730

Assessment			
Valuation Year	Improvements	Land	Total
2016	\$114,550	\$65,160	\$179,710

Owner of Record

Owner FORISTALL JOANN M BARONI
Co-Owner
Address 123 MORRIS HUBBARD RD
HIGGANUM, CT 06441

Sale Price \$0
Certificate
Book & Page 363/0110
Sale Date 07/31/2013
Instrument 25

Ownership History

Ownership History					
Owner	Sale Price	Certificate	Book & Page	Instrument	Sale Date
FORISTALL JOANN M BARONI	\$0		363/0110	25	07/31/2013
BARONI HELEN (EST OF)	\$0		363/0109	25	07/31/2013
BARONI HELEN S (EST OF)	\$0		357/ 684	25	12/05/2012
BARONI HELEN S	\$0		347/ 526	25	10/13/2011
BARONI LEONE (EST OF)+ HELEN	\$0		342/ 279	25	12/22/2010

Building Information

Building 1 : Section 1

Year Built: 1967
Living Area: 2,088
Replacement Cost: \$210,717

Building Percent 67

Good:

Replacement Cost

Less Depreciation: \$141,180

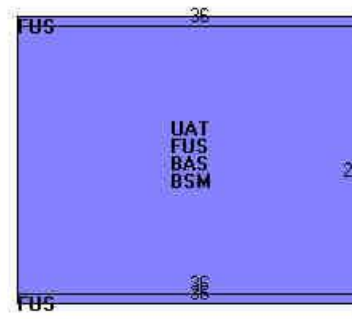
Building Attributes	
Field	Description
Style	Multi Family
Model	Residential
Grade:	C+
Stories	2
Occupancy	2
Exterior Wall 1	Wood Shingle
Exterior Wall 2	
Roof Structure	Gable
Roof Cover	Asphalt
Interior Wall 1	Drywall
Interior Wall 2	
Interior Flr 1	Linoleum
Interior Flr 2	Hardwood
Heat Fuel	Electric
Heat Type:	Elec Baseboard
AC Type:	None
Total Bedrooms:	4 Bedrooms
Full Bthrms:	2
Half Baths:	2
Extra Fixtures	
Total Rooms:	8
Bath Style:	Average
Kitchen Style:	Average
Extra Kitchens	
Fireplace(s)	1
Extra Opening(s)	
Gas Fireplace(s)	
Blocked FPL(s)	
Woodstove(s)	
Bsmt Garage(s)	
SF Fin Bsmt	0
FBM Quality	
Whirlpool	
Sauna	
Foundation	Poured Conc

Building Photo



(<http://images.vgsi.com/photos2/HaddamCTPhotos//\00\00\11/E>)

Building Layout



Building Sub-Areas (sq ft)			Legend
Code	Description	Gross Area	Living Area
FUS	Finished Upper Story	1,080	1,080
BAS	First Floor	1,008	1,008
BSM	Basement	1,008	0
UAT	Unfinished Attic	1,008	0
		4,104	2,088

Extra Features

Extra Features	Legend
No Data for Extra Features	

Land

Land Use	Land Line Valuation
Use Code 102	Size (Acres) 2
Description Two Family	Frontage
Zone R-2A	Depth
Neighborhood 400	Assessed Value \$65,160
Alt Land Appr Category No	Appraised Value \$93,090

Outbuildings

Outbuildings						Legend
Code	Description	Sub Code	Sub Description	Size	Value	Bldg #
FGR1	Garage	FR	Frame	288 S.F.	\$4,320	1
FGR2	Garage w/ Loft	FR	Frame	624 S.F.	\$13,100	1
LNT	Lean To			288 S.F.	\$1,080	1
SHD1	Shed	FR	Frame	440 S.F.	\$3,960	1

Valuation History

Appraisal			
Valuation Year	Improvements	Land	Total
2016	\$163,640	\$93,090	\$256,730
2015	\$163,640	\$93,090	\$256,730
2014	\$172,070	\$93,090	\$265,160

Assessment			
Valuation Year	Improvements	Land	Total
2016	\$114,550	\$65,160	\$179,710
2015	\$114,550	\$65,160	\$179,710
2014	\$120,450	\$65,160	\$185,610

DOCKET NO. 84 - AN APPLICATION OF SNET : CONNECTICUT SITING
CELLULAR, INC., FOR A CERTIFICATE OF :
ENVIRONMENTAL COMPATIBILITY AND PUBLIC : COUNCIL
NEED FOR A CELLULAR TELEPHONE ANTENNA :
TOWER AND ASSOCIATED EQUIPMENT IN THE : February 5, 1988
TOWN OF HADDAM, CONNECTICUT.

D E C I S I O N A N D O R D E R

Pursuant to the forgoing opinion, the Connecticut Siting Council hereby directs that a Certificate of Environmental Compatibility and Public Need, as provided by Section 16-50k of the General Statutes of Connecticut (CGS), be issued to Southern New England Telephone Cellular, Inc., (SNET) for the construction, operation, and maintenance of a cellular telephone tower and associated equipment in the Town of Haddam, Connecticut.

The facility shall be constructed, operated, and maintained as specified in the Council's record in this matter, and subject to the following conditions:

1. The monopole tower shall be no taller than necessary to provide the proposed service, and in no event shall exceed a height of 167 feet, including antennas.

2. The facility shall be constructed in accordance with all applicable federal, state, and municipal laws and regulations.

3. Unless necessary to comply with condition number 2, above, no lights shall be installed on this tower.

4. The Certificate Holder shall prepare a development and management (D&M) plan for the Haddam site in compliance with sections 16-50j-75 through 16-50j-77 of the Regulations of State Agencies. The D&M plan shall provide for evergreen screening around the outside perimeter of the eight-foot chain link fence which will surround the site and the color the tower will be painted.

5. The Certificate Holder or its successor shall notify the Council if and when directional antennas or any equipment other than that listed in this application is added to this facility.

6. The Certificate Holder or its successor shall permit public or private entities to share space on the Haddam tower, for due consideration, or shall provide any requesting entity with specific legal, technical, environmental, or economic reasons precluding such tower sharing.

7. If this facility does not provide or permanently ceases to provide cellular service following completion of construction, this Decision and Order shall be void, and the tower and all associated equipment in this application shall be dismantled and removed or reapplication for any new use shall be made to the Council before any such new use is made.

8. The Certificate Holder shall comply with any future radio frequency (RF) standards promulgated by State or federal regulatory agencies. Upon the establishment of any new governmental RF Standards, the facility granted in this Decision and Order shall be brought into compliance with such standards.

9. Unless otherwise approved by the Council, this Decision and Order shall be void if all construction authorized herein is not completed within three years of the issuance of this Decision and Order, or within three years of the completion of any appeal taken in this Decision and Order.

Pursuant to CGS Section 16-50p, we hereby direct that a copy of this Decision and Order be served on each person listed below. A notice of the issuance shall be published in the Middletown Press and the Hartford Courant.

The parties to this proceeding are:

SNET Cellular, Inc.
555 Long Warf Drive
New Haven CT 06511

(applicant)

Peter J. Tyrrell
Senior Attorney
227 Church Street
Room 1021
New Haven, CT 06506

(its representative)

Metro Mobile CTS of Hartford, Inc.
P.O. Box 1235
East Granby, Connecticut 06206

(intervenor)

Mr. Howard Slater
Ms. Jennifer Gaudet
Byrne, Slater, Sandler,
Schulman & Rouse, P.C.
330 Main Street
P.O. Box 3216
Hartford, CT 06103

(its representative)

Elizabeth Giurintano
119 Morris Hubbard Road
Higganum, CT 06441

(party)

CERTIFICATION

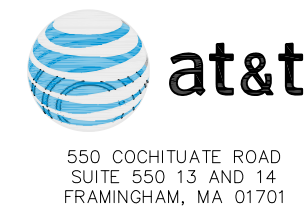
The undersigned members of the Connecticut Siting Council hereby certify that they have heard this case in Docket No. 84 or read the record thereof, and that we voted as follows:

Dated at New Britain, Connecticut the 5th day of February, 1988.

<u>Council Members</u>	<u>Vote Cast</u>
<u><i>Gloria Dibble Pond</i></u> Gloria Dibble Pond Chairperson	Yes
<u><i>Gerald Feinberg</i></u> Commissioner Peter Boucher Designee: Gerald Feinberg	Yes
<u><i>Brian Emerick</i></u> Commissioner Leslie Carothers Designee: Brian Emerick	Yes
<u><i>Owen L. Clark</i></u> Owen L. Clark	Yes
<u><i>Fred J. Doocy</i></u> Fred J. Doocy	Yes
<u><i>Mortimer A. Gelston</i></u> Mortimer A. Gelston	Yes
<u><i>James G. Horsfall</i></u> James G. Horsfall	Yes
<u>William H. Smith</u>	Absent
<u><i>Colin C. Tait</i></u> Colin C. Tait	Yes



PROJECT: LTE 2C/3C
SITE NUMBER: CTL02031
FA NUMBER: 10035050
PTN NUMBER: 2051A0D6QL
PACE NUMBER: MRCTB025384, MRCTB025403
ATC#: 302494
SITE NAME: HADDAM
SITE ADDRESS: 139 MORRIS HUBBARD ROAD
 HADDAM, CT 06438



PROJECT INFORMATION

SITE NAME: HADDAM
SITE NUMBER: CTL02031
SITE ADDRESS: 139 MORRIS HUBBARD ROAD, HADDAM, CT 06438
FA NUMBER: 10035050
PTN NUMBER: 2051A0D6QL
PACE NUMBER: MRCTB025384, MRCTB025403
USID NUMBER: 59407
ATC NUMBER: 302494
APPLICANT: AT&T WIRELESS, 550 COCHITUATE ROAD SUITE 550 13 AND 14, FRAMINGHAM, MA 01701
TOWER OWNER: AMERICAN TOWER CORPORATION, 111 SHILOH ST, PITTSBURGH, PA 15211
JURISDICTION: TOWN OF HADDAM
COUNTY: MIDDLESEX (RFDS)
SITE COORDINATES FROM: 41.4722419°
LATITUDE: -72.55461°
LONGITUDE: 364'
GROUND ELEV.: TELECOMMUNICATIONS FACILITY
PROPOSED USE: DEEPAK RATHORE (860) 965-3068, dr701e@att.com
AT&T RF MANAGER:

SCOPE OF WORK

LTE 850 WILL BE 2C/3C AT THE SITE WITH BRONZE CONFIGURATION. PROPOSED 2C/3C PROJECT SCOPE HEREIN BASED ON RFDS ID # 1833304, VERSION 2.00 LAST UPDATED 10/04/17.

- (3) NEW ANTENNAS TO REPLACE (3) EXISTING ANTENNAS
- (3) NEW RRUS-32 B2 UNITS
- (3) NEW RRUS-32 UNITS
- (1) NEW RAYCAP UNIT
- (1) FIBER CABLE AND (2) DC POWER CABLES
- UPGRADE DUL TO 5216 ADD XMU
- REPLACE EXISTING DIPLEXERS TO NEW LOW BAND COMBINERS

CONTRACTOR SHALL FURNISH ALL MATERIAL WITH THE EXCEPTION OF AT&T SUPPLIED MATERIAL. ALL MATERIAL SHALL BE INSTALLED BY THE CONTRACTOR, UNLESS STATED OTHERWISE.

APPLICABLE BUILDING CODES AND STANDARDS

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES.

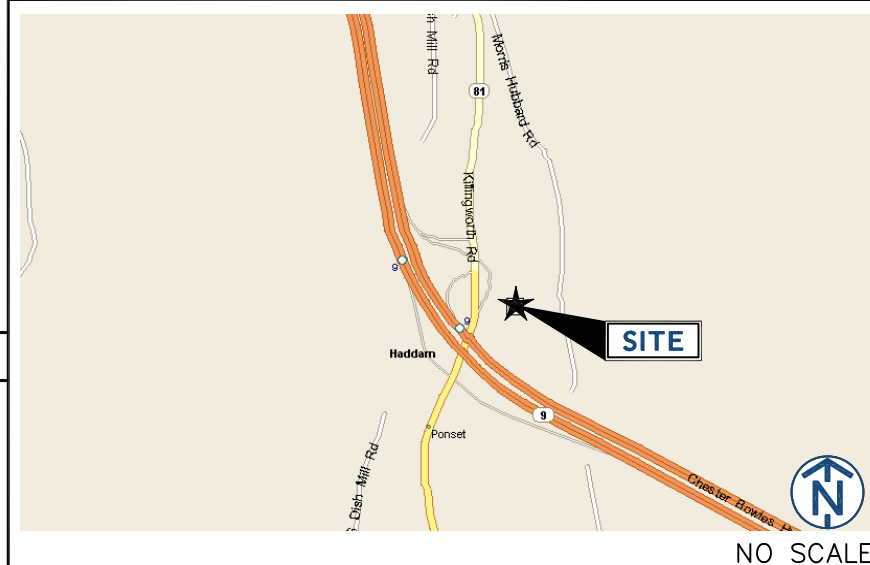
BUILDING CODE: 2012 INTERNATIONAL BUILDING CODE, 2016 CONNECTICUT STATE BUILDING CODE SUPPLEMENT
ELECTRICAL CODE: 2014 NATIONAL ELECTRIC CODE

- FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION.
- ADA ACCESS REQUIREMENTS ARE NOT REQUIRED.
- THIS FACILITY DOES NOT REQUIRE POTABLE WATER AND WILL NOT PRODUCE ANY SEWAGE

REV	DATE	DESCRIPTION	BY
0	09/25/17	90% REVIEW	EB
1	11/30/17	FOR PERMIT	EB

I HEREBY CERTIFY THAT THESE DRAWINGS WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND CONTROL, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF COMPLY WITH THE REQUIREMENTS OF ALL APPLICABLE CODES.

SITE LOCATION MAP



DRAWING INDEX

T1	TITLE SHEET
SP1	NOTES AND SPECIFICATIONS
SP2	NOTES AND SPECIFICATIONS
A1	COMPOUND PLAN
A2	EQUIPMENT PLAN
A3	ELEVATIONS
A4	ANTENNA PLANS
A5	EQUIPMENT DETAILS
A6	ANTENNA & CABLE CONFIGURATION
A7	CABLE NOTES AND COLOR CODING
A8	GROUNDING DETAILS

PROJECT CONSULTANTS

PROJECT MANAGER: SMARTLINK, 85 RANGEWAY ROAD, SUITE 102, NORTH BILLERICA, MA 01862, EDWARD WEISSMAN (917) 528-1857, Edward.Weissman@smartlinkllc.com
SITE ACQUISITION: SMARTLINK, 85 RANGEWAY ROAD, SUITE 102, NORTH BILLERICA, MA 01862, SHARON KEEFE (978) 930-3918, Sharon.Keefe@smartlinkllc.com
ENGINEER/ARCHITECT: FULLERTON ENGINEERING, 1100 E. WOODFIELD ROAD, SUITE 500, SCHAUMBURG, IL 60173, MILEN DIMITROV (847) 908-8439, MDimitrov@FullertonEngineering.com
CONSTRUCTION: SMARTLINK, 85 RANGEWAY ROAD, SUITE 102, NORTH BILLERICA, MA 01862, MARK DONNELLY (617) 515-2080, mark.donnely@smartlinkllc.com

DIRECTIONS

SCAN QR CODE FOR LINK TO SITE LOCATION MAP



NOTE: DRAWING SCALES ARE FOR 11"x17" SHEETS UNLESS OTHERWISE NOTED

SITE NAME
HADDAM

SITE NUMBER:
CTL02031

SITE ADDRESS
139 MORRIS HUBBARD ROAD
HADDAM, CT 06438

SHEET NAME
TITLE SHEET

SHEET NUMBER
T1

THESE DRAWINGS ARE THE PROPERTY OF FULLERTON ENGINEERING CONSULTANTS, INC. IT IS FOR THE EXCLUSIVE USE OF THIS PROJECT. ANY RE-USE OF THIS DRAWING WITHOUT THE EXPRESSED WRITTEN CONSENT OF FULLERTON ENGINEERING CONSULTANTS, INC. IS PROHIBITED.

GENERAL CONSTRUCTION

1. FOR THE PURPOSE OF CONSTRUCTION DRAWINGS, THE FOLLOWING DEFINITIONS SHALL APPLY:
CONTRACTOR/CM – SMARTLINK
OWNER – AT&T WIRELESS
2. ALL SITE WORK SHALL BE COMPLETED AS INDICATED ON THE DRAWINGS AND AT&T PROJECT SPECIFICATIONS.
3. GENERAL CONTRACTOR SHALL VISIT THE SITE AND SHALL FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING THE PROPOSED WORK AND SHALL MAKE PROVISIONS. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH ALL CONTRACT DOCUMENTS, FIELD CONDITIONS, DIMENSIONS, AND CONFIRMING THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
4. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. GENERAL 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 WORK.
5. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES, AND APPLICABLE REGULATIONS.
6. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
7. PLANS ARE NOT TO BE SCALED. THESE PLANS ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY UNLESS OTHERWISE NOTED. DIMENSIONS SHOWN ARE TO FINISH SURFACES UNLESS OTHERWISE NOTED. SPACING BETWEEN EQUIPMENT IS THE MINIMUM REQUIRED CLEARANCE. THEREFORE, IT IS CRITICAL TO FIELD VERIFY DIMENSIONS, SHOULD THERE BE ANY QUESTIONS REGARDING THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A CLARIFICATION FROM THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK. DETAILS ARE INTENDED TO SHOW DESIGN INTENT. MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF WORK AND PREPARED BY THE ENGINEER PRIOR TO PROCEEDING WITH WORK.
8. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
9. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION SPACE FOR APPROVAL BY THE ENGINEER PRIOR TO PROCEEDING.
10. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF WORK AREA, ADJACENT AREAS AND BUILDING OCCUPANTS THAT ARE LIKELY TO BE AFFECTED BY THE WORK UNDER THIS CONTRACT. WORK SHALL CONFIRM TO ALL OSHA REQUIREMENTS AND THE LOCAL JURISDICTION.
11. GENERAL CONTRACTOR SHALL COORDINATE WORK AND SCHEDULE WORK ACTIVITIES WITH OTHER DISCIPLINES.
12. ERECTION SHALL BE DONE IN A WORKMANLIKE MANNER BY COMPETENT EXPERIENCED WORKMAN IN ACCORDANCE WITH APPLICABLE CODES AND THE BEST ACCEPTED PRACTICE. ALL MEMBERS SHALL BE LAID PLUMB AND TRUE AS INDICATED ON THE DRAWINGS.
13. SEAL PENETRATIONS THROUGH FIRE RATED AREAS WITH UL LISTED MATERIALS APPROVED BY LOCAL JURISDICTION. CONTRACTOR SHALL KEEP AREA CLEAN, HAZARD FREE, AND DISPOSE OF ALL DEBRIS.
14. WORK PREVIOUSLY COMPLETED IS REPRESENTED BY LIGHT SHADED LINES AND NOTES. THE SCOPE OF WORK FOR THIS PROJECT IS REPRESENTED BY DARK SHADED LINES AND NOTES. CONTRACTOR SHALL NOTIFY THE GENERAL CONTRACTOR OF ANY EXISTING CONDITIONS THAT DEVIATE FROM THE DRAWINGS PRIOR TO BEGINNING CONSTRUCTION.
15. CONTRACTOR SHALL PROVIDE WRITTEN NOTICE TO THE CONSTRUCTION MANAGER 48 HOURS PRIOR TO COMMENCEMENT OF WORK.
16. 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.
17. THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
18. GENERAL CONTRACTOR SHALL COORDINATE AND MAINTAIN ACCESS FOR ALL TRADES AND CONTRACTORS TO THE SITE AND/OR BUILDING.
19. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SECURITY OF THE SITE FOR THE DURATION OF CONSTRUCTION UNTIL JOB COMPLETION.

20. THE GENERAL CONTRACTOR SHALL MAINTAIN IN GOOD CONDITION ONE COMPLETE SET OF PLANS WITH ALL REVISIONS, ADDENDA, AND CHANGE ORDERS ON THE PREMISES AT ALL TIMES.
21. THE GENERAL CONTRACTOR SHALL PROVIDE PORTABLE FIRE EXTINGUISHERS WITH A RATING OF NOT LESS THAN 2-A OT 2-A:10-B:C AND SHALL BE WITHIN 25 FEET OF TRAVEL DISTANCE TO ALL PORTIONS OF WHERE THE WORK IS BEING COMPLETED DURING CONSTRUCTION.
22. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY THE ENGINEER. 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 SHALL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION, B) CONFINED SPACE, C) ELECTRICAL SAFETY, AND D) TRENCHING & EXCAVATION.
23. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED, CAPPED, PLUGGED OR OTHERWISE DISCONNECTED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, AS DIRECTED BY THE RESPONSIBLE ENGINEER, AND SUBJECT TO THE APPROVAL OF THE OWNER AND/OR LOCAL UTILITIES.
24. 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.
25. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO THE EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE FEDERAL AND LOCAL JURISDICTION FOR EROSION AND SEDIMENT CONTROL.
26. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUNDING. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
27. THE SUBGRADE SHALL BE BROUGHT TO A SMOOTH UNIFORM GRADE AND COMPACTED TO 95 PERCENT STANDARD PROCTOR DENSITY UNDER PAVEMENT AND STRUCTURES AND 80 PERCENT STANDARD PROCTOR DENSITY IN OPEN SPACE. ALL TRENCHES IN PUBLIC RIGHT OF WAY SHALL BE BACKFILLED WITH FLOWABLE FILL OR OTHER MATERIAL PRE-APPROVED BY THE LOCAL JURISDICTION.
28. ALL NECESSARY RUBBISH, STUMPS, DEBRIS, STICKS, STONES, AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LAWFUL MANNER.
29. ALL BROCHURES, OPERATING AND MAINTENANCE MANUALS, CATALOGS, SHOP DRAWINGS, AND OTHER DOCUMENTS SHALL BE TURNED OVER TO THE GENERAL CONTRACTOR AT COMPLETION OF CONSTRUCTION AND PRIOR TO PAYMENT.
30. CONTRACTOR SHALL SUBMIT A COMPLETE SET OF AS-BUILT REDLINES TO THE GENERAL CONTRACTOR UPON COMPLETION OF PROJECT AND PRIOR TO FINAL PAYMENT.
31. CONTRACTOR SHALL LEAVE PREMISES IN A CLEAN CONDITION.
32. THE PROPOSED FACILITY WILL BE UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SEWER SERVICE, AND IS NOT FOR HUMAN HABITAT (NO HANDICAP ACCESS REQUIRED).
33. OCCUPANCY IS LIMITED TO PERIODIC MAINTENANCE AND INSPECTION, APPROXIMATELY 2 TIMES PER MONTH, BY AT&T TECHNICIANS.
34. NO OUTDOOR STORAGE OR SOLID WASTE CONTAINERS ARE PROPOSED.
35. ALL MATERIAL SHALL BE FURNISHED AND WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST REVISION AT&T MOBILITY GROUNDING STANDARD "TECHNICAL SPECIFICATION FOR CONSTRUCTION OF GSM/GPRS WIRELESS SITES" AND "TECHNICAL SPECIFICATION FOR FACILITY GROUNDING". IN CASE OF A CONFLICT BETWEEN THE CONSTRUCTION SPECIFICATION AND THE DRAWINGS, THE DRAWINGS SHALL GOVERN.
36. CONTRACTORS SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS REQUIRED FOR CONSTRUCTION. IF CONTRACTOR CANNOT OBTAIN A PERMIT, THEY MUST NOTIFY THE GENERAL CONTRACTOR IMMEDIATELY.
37. CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
38. INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FROM SITE VISITS AND/OR DRAWINGS PROVIDED BY THE SITE OWNER. CONTRACTORS SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
39. NO WHITE STROBE LIGHTS ARE PERMITTED. LIGHTING IF REQUIRED, WILL MEET FAA STANDARDS AND REQUIREMENTS.

ANTENNA MOUNTING

40. DESIGN AND CONSTRUCTION OF ANTENNA SUPPORTS SHALL

CONFORM TO CURRENT ANSI/TIA-222 OR APPLICABLE LOCAL CODES.

41. ALL STEEL MATERIALS SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 "ZINC (HOT-DIP GALVANIZED) COATINGS ON IRON AND STEEL PRODUCTS", UNLESS NOTED OTHERWISE.
42. ALL BOLTS, ANCHORS AND MISCELLANEOUS HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 "ZINC-COATING (HOT-DIP) ON IRON AND STEEL HARDWARE", UNLESS NOTED OTHERWISE.
43. DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED BY COLD GALVANIZING IN ACCORDANCE WITH ASTM A780.
44. ALL ANTENNA MOUNTS SHALL BE INSTALLED WITH LOCK NUTS, DOUBLE NUTS AND SHALL BE TORQUED TO MANUFACTURER'S RECOMMENDATIONS.
45. CONTRACTOR SHALL INSTALL ANTENNA PER MANUFACTURER'S RECOMMENDATION FOR INSTALLATION AND GROUNDING.
46. ALL UNUSED PORTS ON ANY ANTENNAS SHALL BE TERMINATED WITH A 50-OHM LOAD TO ENSURE ANTENNAS PERFORM AS DESIGNED.
47. PRIOR TO SETTING ANTENNA AZIMUTHS AND DOWNTILTS, ANTENNA CONTRACTOR SHALL CHECK THE ANTENNA MOUNT FOR TIGHTNESS AND ENSURE THAT THEY ARE PLUMB. ANTENNA AZIMUTHS SHALL BE SET FROM TRUE NORTH AND BE ORIENTED WITHIN +/- 5% AS DEFINED BY THE RFDS. ANTENNA DOWNTILTS SHALL BE WITHIN +/- 0.5% AS DEFINED BY THE RFDS. REFER TO ND-00246.
48. JUMPERS FROM THE TMA'S MUST TERMINATE TO OPPOSITE POLARIZATION'S IN EACH SECTOR.
49. CONTRACTOR SHALL RECORD THE SERIAL #, SECTOR, AND POSITION OF EACH ACTUATOR INSTALLED AT THE ANTENNAS AND PROVIDE THE INFORMATION TO AT&T.
50. TMA'S SHALL BE MOUNTED ON PIPE DIRECTLY BEHIND ANTENNAS AS CLOSE TO ANTENNA AS FEASIBLE IN A VERTICAL POSITION.

TORQUE REQUIREMENTS

51. ALL RF CONNECTIONS SHALL BE TIGHTENED BY A TORQUE WRENCH.
52. ALL RF CONNECTIONS, GROUNDING HARDWARE AND ANTENNA HARDWARE SHALL HAVE A TORQUE MARK INSTALLED IN A CONTINUOUS STRAIGHT LINE FROM BOTH SIDES OF THE CONNECTION.
A. RF CONNECTION BOTH SIDES OF THE CONNECTOR.
B. GROUNDING AND ANTENNA HARDWARE ON THE NUT SIDE STARTING FROM THE THREADS TO THE SOLID SURFACE. EXAMPLE OF SOLID SURFACE: GROUND BAR, ANTENNA BRACKET METAL.

FIBER & POWER CABLE MOUNTING

53. THE FIBER OPTIC TRUNK CABLES SHALL BE INSTALLED INTO CONDUITS, CHANNEL CABLE TRAYS, OR CABLE TRAY. WHEN INSTALLING FIBER OPTIC TRUNK CABLES INTO A CABLE TRAY SYSTEM, THEY SHALL BE INSTALLED INTO AN INTER DUCT AND A PARTITION BARRIER SHALL BE INSTALLED BETWEEN THE 600 VOLT CABLES AND THE INTER DUCT IN ORDER TO SEGREGATE CABLE TYPES. OPTIC FIBER TRUNK CABLES SHALL HAVE APPROVED CABLE RESTRAINTS EVERY (60) SIXTY FEET AND SECURELY FASTENED TO THE CABLE TRAY SYSTEM. NFPA 70 (NEC) ARTICLE 770 RULES SHALL APPLY.
54. THE TYPE TC-ER CABLES SHALL BE INSTALLED INTO CONDUITS, CHANNEL CABLE TRAYS, OR CABLE TRAY AND SHALL BE SECURED AT INTERVALS NOT EXCEEDING (6) SIX FEET. AN EXCEPTION; WHERE TYPE TC-ER CABLES ARE NOT SUBJECT TO PHYSICAL DAMAGE, CABLES SHALL BE PERMITTED TO MAKE A TRANSITION BETWEEN CONDUITS, CHANNEL CABLE TRAYS, OR CABLE TRAY WHICH ARE SERVING UTILIZATION EQUIPMENT OR DEVICES. A DISTANCE (6) SIX FEET SHALL NOT BE EXCEEDED WITHOUT CONTINUOUS SUPPORTING. NFPA 70 (NEC) ARTICLES 336 AND 392 RULES SHALL APPLY.
55. WHEN INSTALLING OPTIC FIBER TRUNK CABLES OR TYPE TC-ER CABLES INTO CONDUITS, NFPA 70 (NEC) ARTICLE 300 RULES SHALL APPLY.

COAXIAL CABLE NOTES

62. TYPES AND SIZES OF THE ANTENNA CABLE ARE BASED ON ESTIMATED LENGTHS. PRIOR TO ORDERING CABLE, CONTRACTOR SHALL VERIFY ACTUAL LENGTH BASED ON CONSTRUCTION LAYOUT AND NOTIFY THE PROJECT MANAGER IF ACTUAL LENGTHS EXCEED ESTIMATED LENGTHS.
63. CONTRACTOR SHALL VERIFY THE DOWN-TILT OF EACH ANTENNA WITH A DIGITAL LEVEL.
64. CONTRACTOR SHALL CONFIRM COAX COLOR CODING PRIOR TO CONSTRUCTION.
65. ALL JUMPERS TO THE ANTENNAS FROM THE MAIN

TRANSMISSION LINE SHALL BE 1/2" DIA. LDF AND SHALL NOT EXCEED 6'-0".

66. ALL COAXIAL CABLE SHALL BE SECURED TO THE DESIGNED SUPPORT STRUCTURE, IN AN APPROVED MANNER, AT DISTANCES NOT TO EXCEED 4'-0" OC.
67. CONTRACTOR SHALL FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS REGARDING BOTH THE INSTALLATION AND GROUNDING OF ALL COAXIAL CABLES, CONNECTORS, ANTENNAS, AND ALL OTHER EQUIPMENT.
68. CONTRACTOR SHALL GROUND ALL EQUIPMENT INCLUDING ANTENNAS, RET MOTORS, TMA'S, COAX CABLES, AND RET CONTROL CABLES AS A COMPLETE SYSTEM. GROUNDING SHALL BE EXECUTED BY QUALIFIED WIREMEN IN COMPLIANCE WITH MANUFACTURER'S SPECIFICATION AND RECOMMENDATION.
69. CONTRACTOR SHALL PROVIDE STRAIN-RELIEF AND CABLE SUPPORTS FOR ALL CABLE ASSEMBLIES, COAX CABLES, AND RET CONTROL CABLES. CABLE STRAIN-RELIEFS AND CABLE SUPPORTS SHALL BE APPROVED FOR THE PURPOSE. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
70. CONTRACTOR TO VERIFY THAT EXISTING COAX HANGERS ARE STACKABLE SNAP IN HANGERS. IF EXISTING HANGERS ARE NOT STACKABLE SNAP IN HANGERS THE CONTRACTOR SHALL REPLACE EXISTING HANGERS WITH NEW SNAP IN HANGERS IF APPLICABLE.

GENERAL CABLE AND EQUIPMENT NOTES

71. CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY ANTENNA, TMAS, DIPLEXERS, AND COAX CONFIGURATION, MAKE AND MODELS PRIOR TO INSTALLATION.
72. ALL CONNECTIONS FOR HANGERS, SUPPORTS, BRACING, ETC. SHALL BE INSTALLED PER TOWER MANUFACTURER'S RECOMMENDATIONS.
73. CONTRACTOR SHALL REFERENCE THE TOWER STRUCTURAL ANALYSIS/DESIGN DRAWINGS FOR DIRECTIONS ON CABLE DISTRIBUTION/ROUTING.
74. ALL OUTDOOR RF CONNECTORS/CONNECTIONS SHALL BE WEATHERPROOFED, EXCEPT THE RET CONNECTORS, USING BUTYL TAPE AFTER INSTALLATION AND FINAL CONNECTIONS ARE MADE. BUTYL TAPE SHALL HAVE A MINIMUM OF ONE-HALF TAPE WIDTH OVERLAP ON EACH TURN AND EACH LAYER SHALL BE WRAPPED THREE TIMES. WEATHERPROOFING SHALL BE SMOOTH WITHOUT BUCKLING. BUTYL BLEEDING IS NOT ALLOWED.
75. IF REQUIRED TO PAINT ANTENNAS AND/OR COAX:
A. TEMPERATURE SHALL BE ABOVE 50° F.
B. PAINT COLOR MUST BE APPROVED BY BUILDING OWNER/LANDLORD.
C. FOR REGULATED TOWERS, FAA/FCC APPROVED PAINT IS REQUIRED.
D. DO NOT PAINT OVER COLOR CODING OR ON EQUIPMENT MODEL NUMBERS
76. ALL CABLES SHALL BE GROUNDED WITH COAXIAL CABLE GROUND KITS. FOLLOW THE MANUFACTURER'S RECOMMENDATIONS.
A. GROUNDING AT THE ANTENNA LEVEL.
B. GROUNDING AT MID LEVEL, TOWERS WHICH ARE OVER 200'-0", ADDITIONAL CABLE GROUNDING REQUIRED.
C. GROUNDING AT BASE OF TOWER PRIOR TO TURNING HORIZONTAL.
D. GROUNDING OUTSIDE THE EQUIPMENT SHELTER AT ENTRY PORT.
E. GROUNDING INSIDE THE EQUIPMENT SHELTER AT THE ENTRY PORT.
77. ALL PROPOSED GROUND BAR DOWNLEADS ARE TO BE TERMINATED TO THE EXISTING ADJACENT GROUND BAR DOWNLEADS A MINIMUM DISTANCE OF 4'-0" BELOW GROUND BAR. TERMINATIONS MAY BE EXOTHERMIC OR COMPRESSION.



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SUITE 550 13 AND 14
FRAMINGHAM, MA 01701



1362 MELLON ROAD
SUITE 140
HANOVER, MD 21076



1100 E. WOODFIELD ROAD, SUITE 500
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www.FullertonEngineering.com

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1	11/30/17	FOR PERMIT	EB

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SITE NAME
HADDAM

SITE NUMBER:
CTL02031

SITE ADDRESS
139 MORRIS HUBBARD ROAD
HADDAM, CT 06438

SHEET NAME
NOTES AND SPECIFICATIONS

SHEET NUMBER
SP1

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NOTICE

Beyond This Point you are entering a controlled area where RF emissions *may exceed* the FCC General Population Exposure Limits.

Follow all posted signs and site guidelines for working in a RF environment.

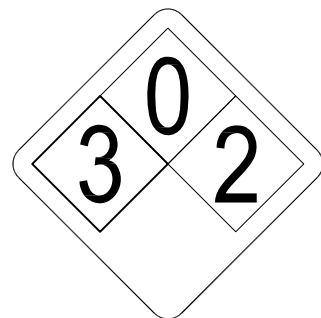
Ref: 47CFR 1.1307(b)

CAUTION

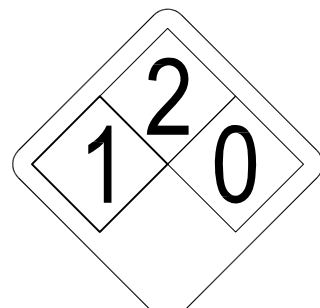
Beyond This Point you are entering a controlled area where RF emissions *may exceed* the FCC Occupational Exposure Limits.

Obey all posted signs and site guidelines for working in a RF environment.

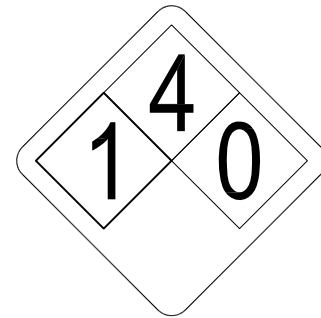
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ALERTING SIGN
(FOR CELL SITE BATTERIES)



ALERTING SIGN
(FOR DIESEL FUEL)



ALERTING SIGN
(FOR PROPANE)

550 COCHITUATE ROAD
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1362 MELLON ROAD
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ALERTING SIGNS

WARNING!

DANGER DO NOT TOUCH TOWER!

SERIOUS "RF" BURN HAZARD!

MAINTAIN AN ADEQUATE CLEARANCE BETWEEN TOWER SUPPORTS AND GUY WIRES

FAILURE TO OBEY ALL POSTED SIGNS AND SITE GUIDELINES FOR WORKING IN A RADIO FREQUENCY ENVIRONMENT COULD RESULT IN SERIOUS INJURY. CONTACT CURRENT MAY EXCEED LIMITS PRESCRIBED IN ANSI, IEEE C95.1-1992 FOR CONTROLLED ENVIRONMENTS.

PROPERTY OF AT&T

AUTHORIZED PERSONNEL ONLY

IN CASE OF EMERGENCY, OR PRIOR TO PERFORMING MAINTENANCE ON THIS SITE, CALL 800-638-2822 AND REFERENCE CELL SITE NUMBER _____

ALERTING SIGN

INFO SIGN #4

INFORMATION

AT&T operates telecommunications antennas at this location. Remain at least 3 feet away from any antenna and obey all posted signs.

Contact the owner(s) of the antenna(s) before working closer than 3 feet from the antenna.

Contact AT&T at _____ prior to performing any maintenance or repairs near AT&T antennas. This is Site# _____

Contact the management office if this door/hatch/gate is found unlocked.

INFORMACION

En esta propiedad se ubican antenas de telecomunicaciones operadas por AT&T. Favor mantener una distancia de no menos de 3 pies y obedecer todos los avisos.

Comuníquese con el propietario o los propietarios de las antenas antes de trabajar o caminar a una distancia de menos de 3 pies de la antena.

Comuníquese con AT&T _____ antes de realizar cualquier mantenimiento o reparaciones cerca de la antena de AT&T.

Esta es la estación base maestra. _____

Favor comunicarse con la oficina de la administración del edificio si esta puerta o compuerta se encuentra sin candado.

INFORMATION

ACTIVE ANTENNAS ARE MOUNTED

ON THE OUTSIDE OF THIS BUILDING

BEHIND THIS PANEL

ON THIS STRUCTURE

STAY BACK A MINIMUM OF 3 FEET FROM THESE ANTENNAS

Contact AT&T at _____ and follow their instructions prior to performing any maintenance or repairs closer than 3 feet from the antennas.

This is AT&T site# _____

INFO SIGN #1

INFO SIGN #2

INFO SIGN #3

STAY BACK 3 FEET FROM ANTENNA

GENERAL SIGNAGE GUIDELINES

STRUCTURE TYPE	INFO SIGN #1	INFO SIGN #2	INFO SIGN #3	INFO SIGN #4	STRIPING	NOTICE SIGN	CAUTION SIGN
TOWERS							
MONOPOLE/MONOPINE/MONOPALM	ENTRANCE GATES, SHELTER DOORS OR ON THE OUTDOOR CABINETS	CLIMBING SIDE OF THE TOWER	ON BACKSIDE OF ANTENNAS	ENTRANCE GATES, SHELTER DOORS OR ON THE OUTDOOR CABINETS			AT THE HEIGHT OF THE FIRST CLIMBING STEP, MIN 9 FT ABOVE GROUND
SEC TOWERS/TOWERS WITH HIGH VOLTAGE	ENTRANCE GATES, SHELTER DOORS OR ON THE OUTDOOR CABINETS	CLIMBING SIDE OF THE TOWER	ON BACKSIDE OF ANTENNAS	ENTRANCE GATES, SHELTER DOORS OR ON THE OUTDOOR CABINETS			
LIGHT POLES/FLAG POLES	ENTRANCE GATES, SHELTER DOORS OR ON THE OUTDOOR CABINETS	ON THE POLE, NO LESS THAN 3FT BELOW THE ANTENNA AND LESS THAN 9FT ABOVE GROUND	ON BACKSIDE OF ANTENNAS	ENTRANCE GATES, SHELTER DOORS OR ON THE OUTDOOR CABINETS			
UTILITY WOOD POLES (JPA)	ENTRANCE GATES, SHELTER DOORS OR ON THE OUTDOOR CABINETS	ON THE POLE, NO LESS THAN 3FT BELOW THE ANTENNA AND LESS THAN 9FT ABOVE GROUND	ON BACKSIDE OF ANTENNAS	ENTRANCE GATES, SHELTER DOORS OR ON THE OUTDOOR CABINETS		IF GP MAX VALUE OF MPE AT ANTENNA LEVEL IS: 0-99%: NOTICE SIGN; OVER 99%: CAUTION SIGN AT NO LESS THAN 3FT BELOW ANTENNA AND 9FT ABOVE GROUND	
MICROCELLS MOUNTED ON NON-JPA POLES	ENTRANCE GATES, SHELTER DOORS OR ON THE OUTDOOR CABINETS	ON THE POLE, NO LESS THAN 3FT BELOW THE ANTENNA AND LESS THAN 9FT ABOVE GROUND	ON BACKSIDE OF ANTENNAS	ENTRANCE GATES, SHELTER DOORS OR ON THE OUTDOOR CABINETS		NOTICE OR CAUTION SIGN AT NO LESS THAN 9FT ABOVE GROUND; ONLY IF THE EXPOSURE EXCEEDS 90% OF THE GENERAL PUBLIC EXPOSURE AT EXPOSURE AT 6FT ABOVE GROUND OR AT OUTSIDE OF SURFACE OF ADJACENT BUILDING	
TOWERS							
AT ALL ACCESS POINTS TO THE ROOF	X			X			
ON ANTENNAS	X		X	X			
CONCEALED ANTENNAS	X	X		X			
ANTENNAS MOUNTED FACING OUTSIDE THE BUILDING	X	X		X			
ANTENNAS ON SUPPORT STRUCTURE	X	X		X			
ROOFVIEW GRAPH							
RADIATION AREA IS WITHIN 3FT FROM ANTENNA	X	ADJACENT TO EACH ANTENNA		X		EITHER NOTICE OR CAUTION SIGN (BASED ON ROOFVIEW RESULTS) AT ANTENNA /BARRIER	
RADIATION AREA IS BEYOND 3FT FROM ANTENNA	X	ADJACENT TO EACH ANTENNA		X	DIAGONAL, YELLOW STRIPING AS TO ROOFVIEW GRAPH		
CHURCH STEEPLES	ACCESS TO STEEPLE	ADJACENT TO ANTENNAS IF ANTENNAS ARE CONCEALED	ON BACKSIDE OF ANTENNAS	ACCESS TO STEEPLE			CAUTION SIGN AT THE ANTENNAS
WATER STATIONS	ACCESS TO LADDER	ADJACENT TO ANTENNAS IF ANTENNAS ARE CONCEALED	ON BACKSIDE OF ANTENNAS	ACCESS TO LADDER			CAUTION SIGN BESIDE INFO SIGN #1, MIN. 9FT ABOVE GROUND

NOTES FOR ROOFTOP SITES:

- EITHER NOTICE OR CAUTION SIGNS NEED TO BE POSTED AT EACH SECTOR AS CLOSE AS POSSIBLE TO: THE OUTER EDGE OF THE STRIPED OFF AREA OR THE OUTER ANTENNAS OF THE SECTOR
- IF ROOFVIEWS SHOWS: ONLY BLUE = NOTICE SIGN, BLUE AND YELLOW = CAUTION SIGN, ONLY YELLOW = CAUTION SIGN TO BE INSTALLED
- SHOULD THE REQUIRED STRIPING AREAS INTERFERE WITH ANY STRUCTURE OR EQUIPMENT (A/C, VENTS, ROOF HATCH, DOORS, OTHER ANTENNAS, DISHES, ETC.). PLEASE NOTIFY AT&T TO MODIFY THE STRIPING AREA, PRIOR TO STARTING THE WORK.

REV	DATE	DESCRIPTION	BY
0	09/25/17	90% REVIEW	EB
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SITE ADDRESS

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HADDAM, CT 06438

SHEET NAME

NOTES AND SPECIFICATIONS

SHEET NUMBER

SP2

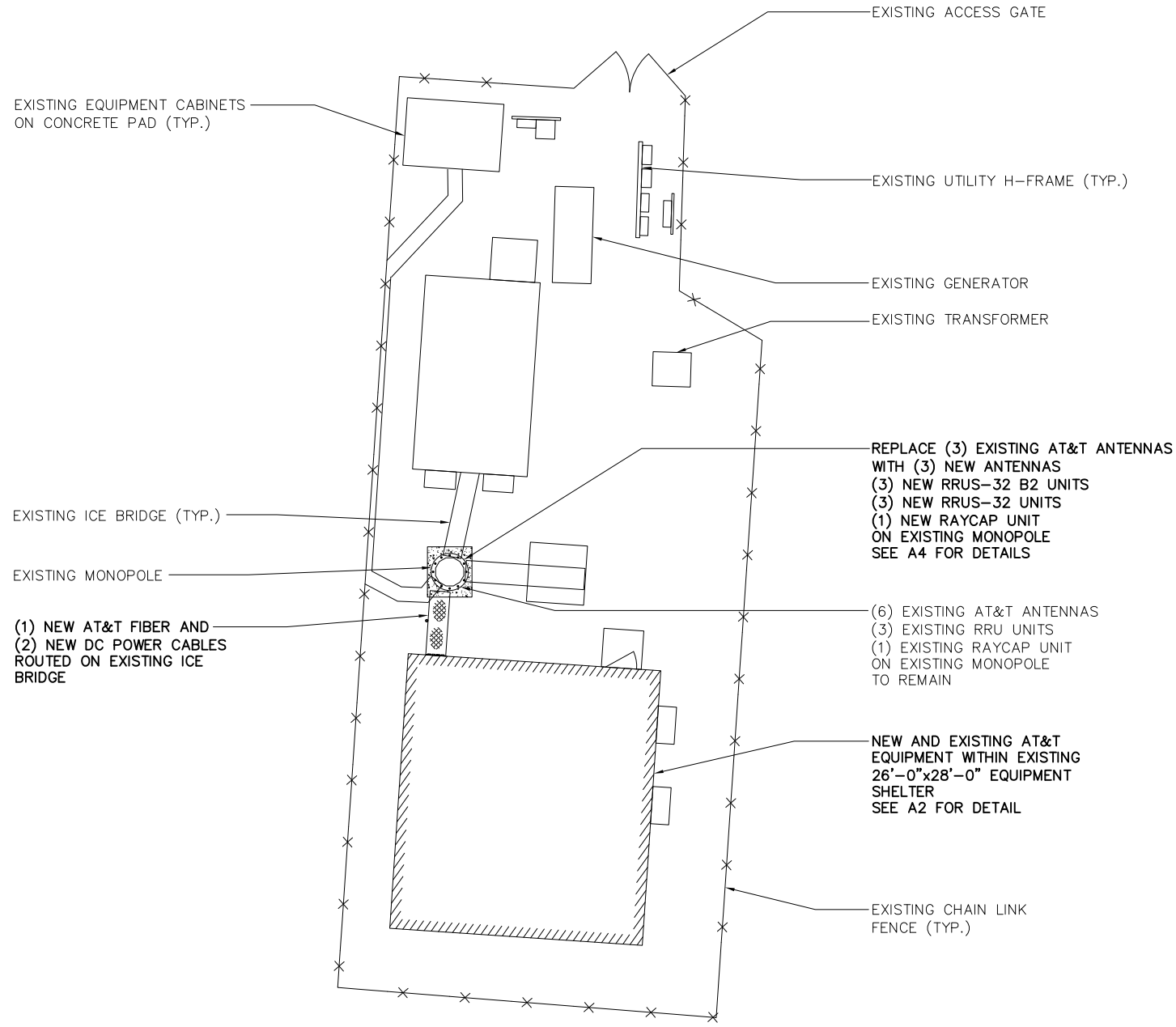
SIGNAGE GUIDELINES CHART

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AGL	ABOVE GRADE LEVEL
AMSL	ABOVE MEAN SEA LEVEL
APPROX	APPROXIMATE
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BLDG	BUILDING
BTS	BASE TRANSMISSION STATION
CL	CENTERLINE
CLR	CLEAR
COL	COLUMN
CONC	CONCRETE
CND	CONDUIT
DWG	DRAWING
FT	FOOT(FEET)
EGB	EQUIPMENT GROUND BAR
ELEC	ELECTRICAL
EMT	ELECTRICAL METALLIC TUBING
ELEV	ELEVATION
EQUIP	EQUIPMENT
(E)	EXISTING
EXT	EXTERIOR
FND	FOUNDATION
F	FIBER
FIF	FACILITY INTERFACE FRAME
GA	GAUGE
GALV	GALVANIZED
GPS	GLOBAL POSITIONING SYSTEM
GND	GROUND
GSM	GLOBAL SYSTEM FOR MOBILE COMMUNICATION
LTE	LONG TERM EVOLUTION
MAX	MAXIMUM
MCPA	MULTI-CARRIER POWER AMPLIFIER
MFR	MANUFACTURER
MGB	MASTER GROUND BAR
MIN	MINIMUM
MTS	MANUAL TRANSFER SWITCH
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
OE/OT	OVERHEAD ELECTRIC/TELCO
PPC	POWER PROTECTION CABINET
PL	PROPERTY LINE
RBS	RADIO BASED STATION
RET	REMOTE ELECTRIC TILT
RRU	REMOTE RADIO UNIT
RGS	RIGID GALVANIZED STEEL
IN	INCH(ES)
INT	INTERIOR
LB(S), #	POUND(S)
SF	SQUARE FOOT
STL	STEEL
TMA	TOWER MOUNTED AMPLIFIER
TYP	TYPICAL
UE/UT	UNDERGROUND ELECTRIC/TELCO
UNO	UNLESS NOTED OTHERWISE
UMTS	UNIVERSAL MOBILE TELE-COMMUNICATION SYSTEM
VIF	VERIFY IN FIELD
W/	WITH
XFMR	TRANSFORMER

SYMBOLS

	REVISION
	WORK POINT
	UTILITY POLE
	COMPRESSED STONE
	BRICK
	CONCRETE
	EARTH
	GRAVEL
	MASONRY
	STEEL
	CENTERLINE
	PROPERTY LINE
	LEASE LINE
	EASEMENT LINE
	CHAIN LINK FENCE
	WOOD FENCE
	BELOW GRADE ELECTRIC
	BELOW GRADE TELEPHONE
	OVERHEAD ELECTRIC/TELEPHONE
	SECTION REFERENCE



COMPOUND PLAN

SCALE: 1/16" = 1'-0" 1



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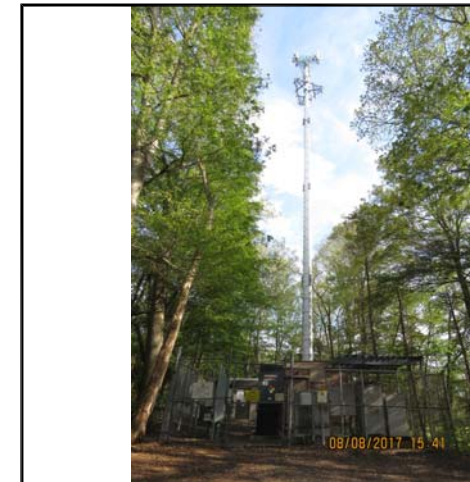
139 MORRIS HUBBARD ROAD
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SHEET NAME

COMPOUND PLAN

SHEET NUMBER

A1



SITE PHOTO 1

SCALE: N.T.S. 2



SITE PHOTO 2

SCALE: N.T.S. 3

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SITE NAME

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SITE ADDRESS

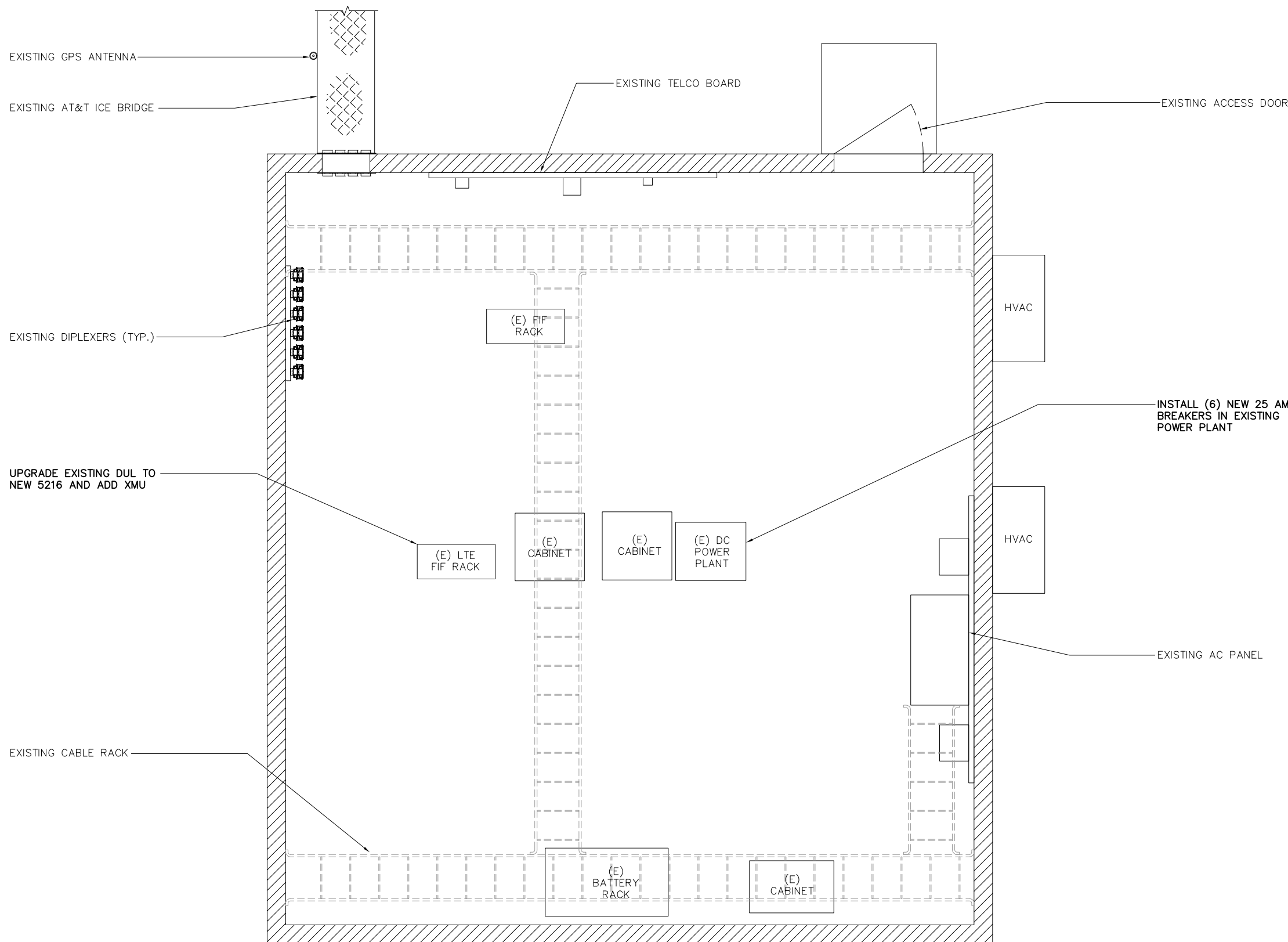
**139 MORRIS HUBBARD ROAD
HADDAM, CT 06438**

SHEET NAME

**EQUIPMENT
PLAN**

SHEET NUMBER

A2



NOTES:

1. CALCULATIONS FOR THE STRUCTURE AND ANTENNA MOUNTS WERE PREPARED BY OTHERS AND THOSE CALCULATIONS CERTIFY THE CAPACITY OF THE STRUCTURE TO SUPPORT THE NEW EQUIPMENT
2. CABLES NOT SHOWN FOR CLARITY



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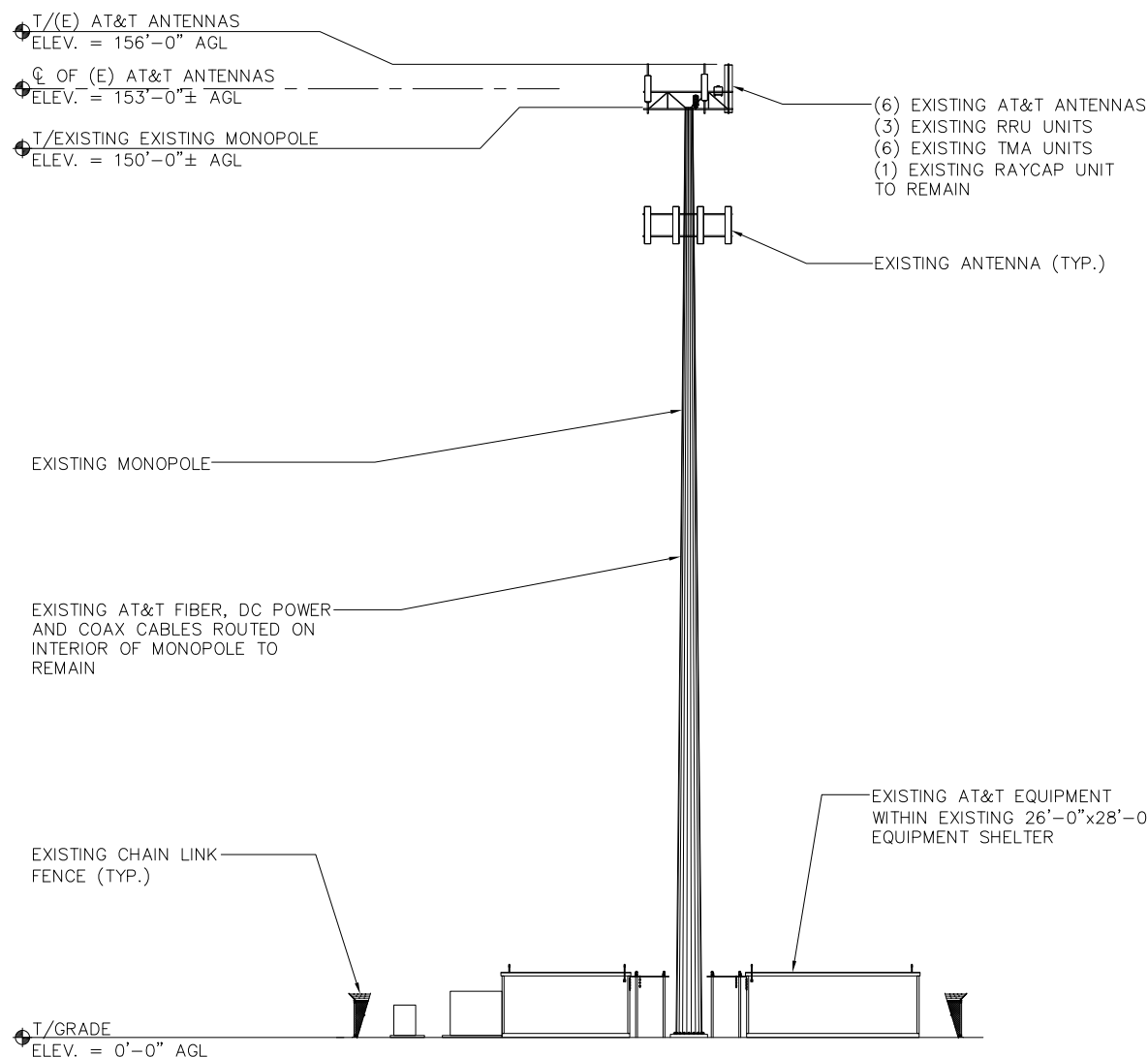
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ELEVATIONS

SHEET NUMBER

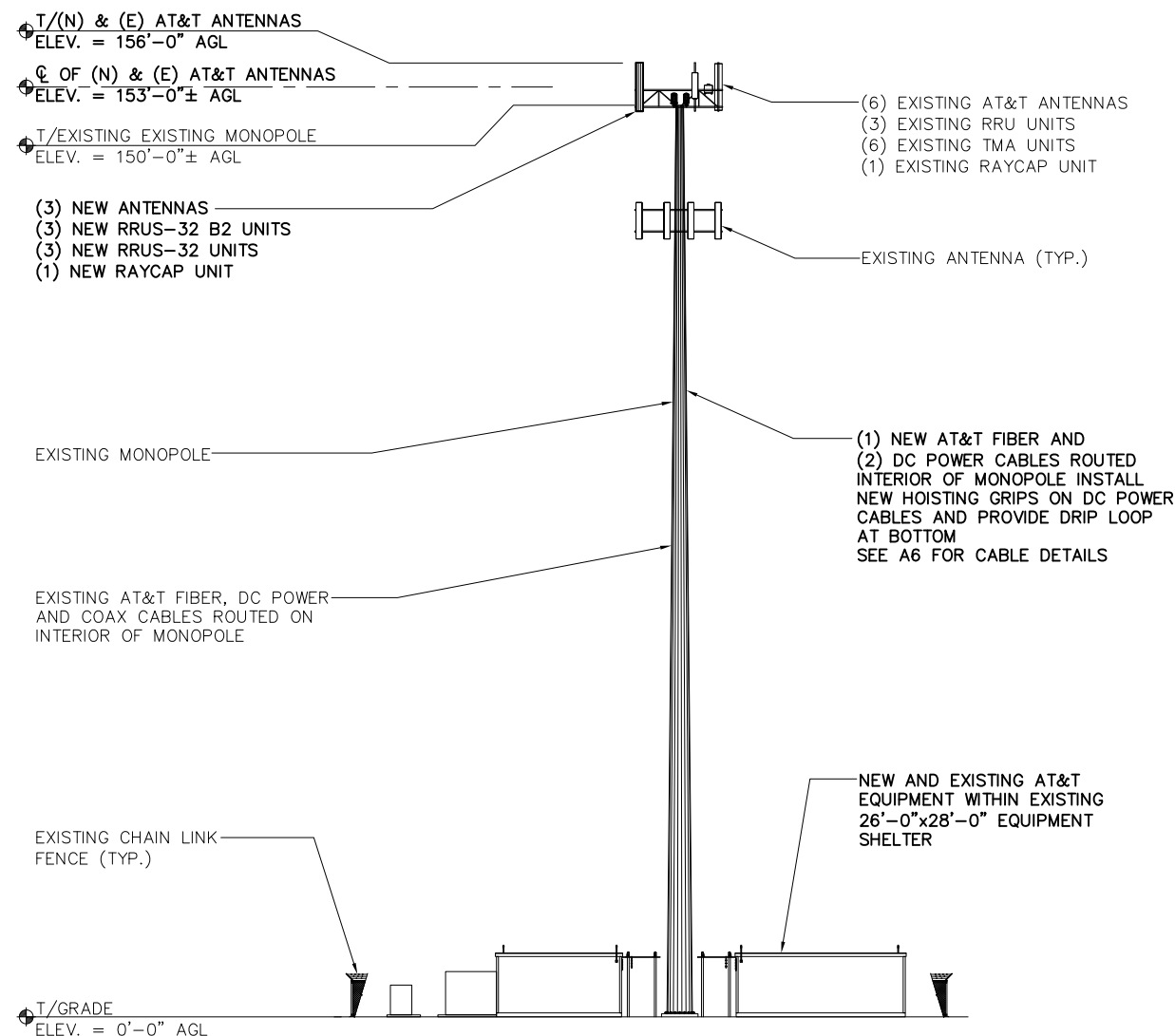
A3



EXISTING ELEVATION

SCALE: 1" = 30'-0"

1

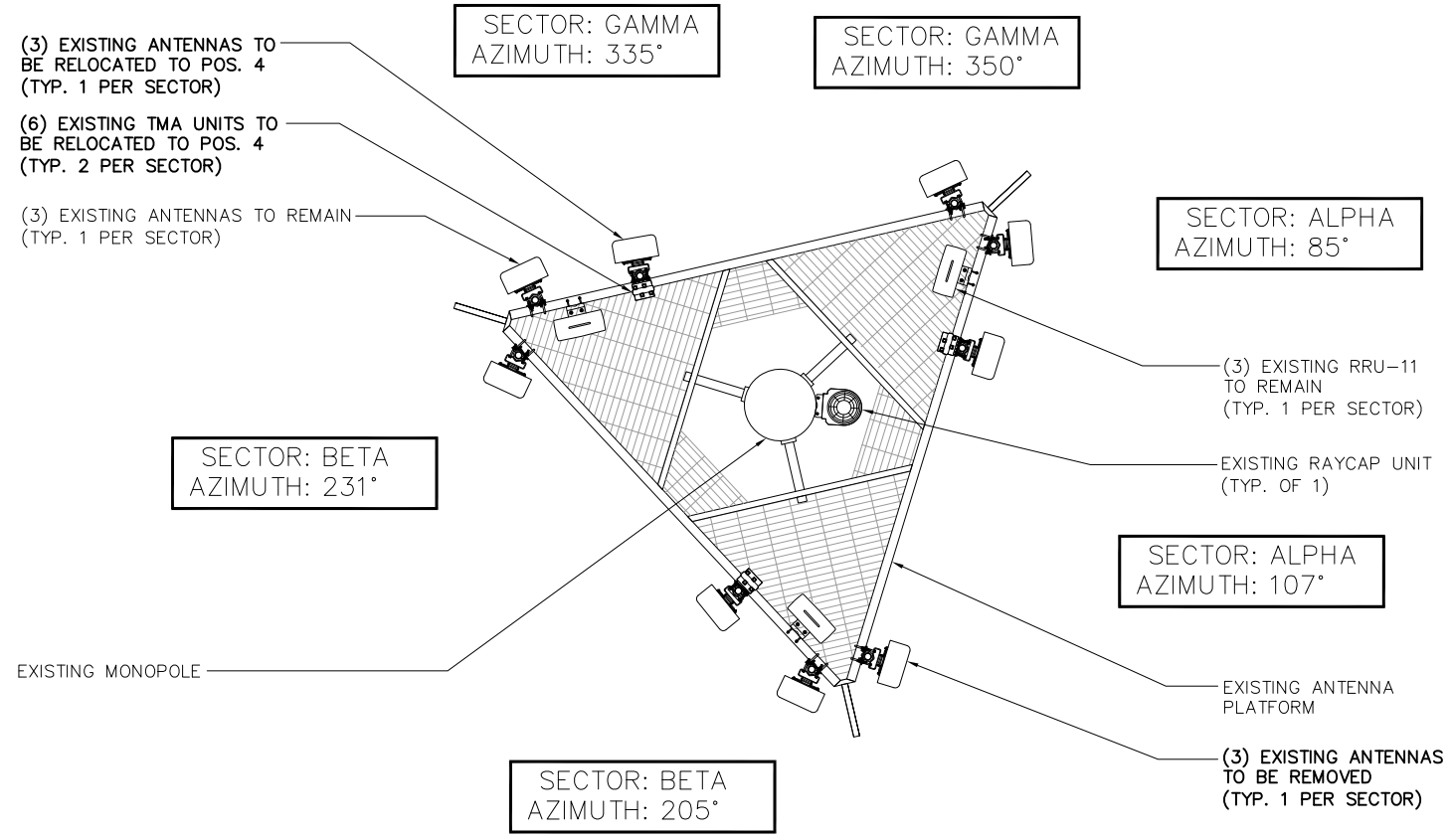


NEW ELEVATION

SCALE: 1" = 30'-0"

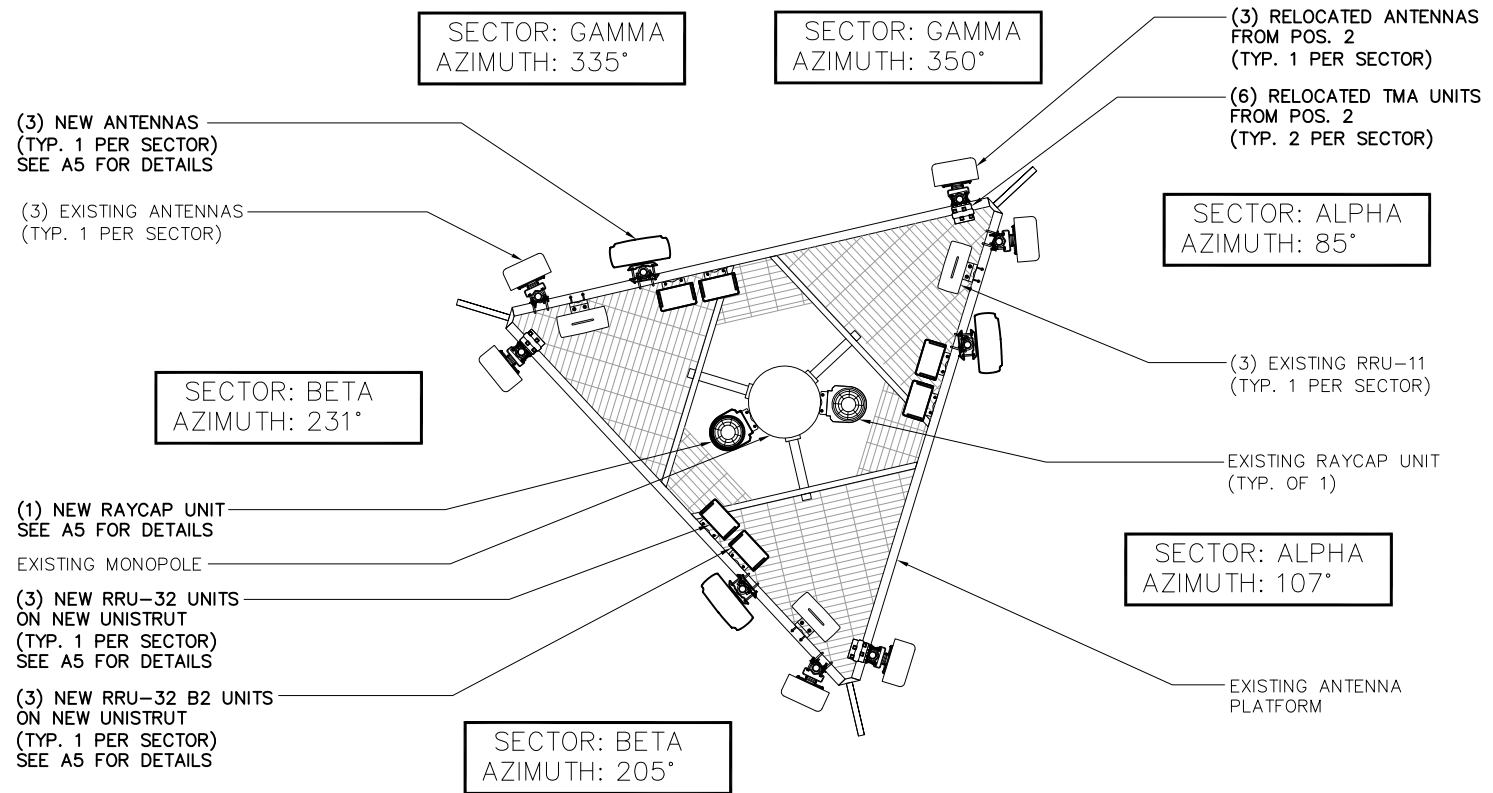
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EXISTING ANTENNA PLAN

SCALE: 3/16" = 1'-0" | 1



FINAL ANTENNA PLAN

SCALE: 3/16" = 1'-0" | 2



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SHEET NAME

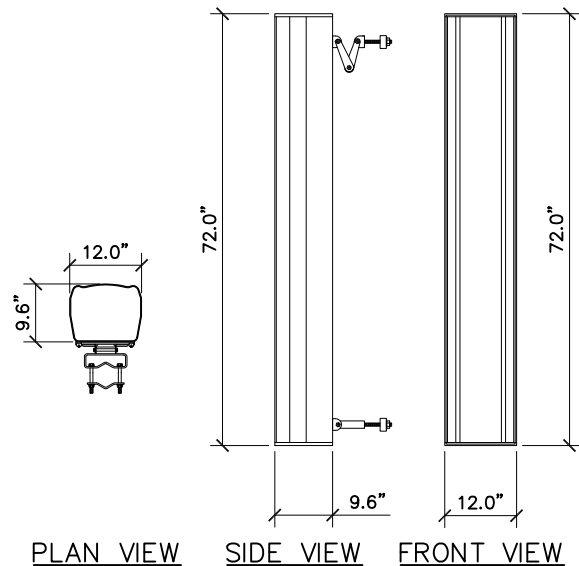
ANTENNA PLANS

SHEET NUMBER

A4



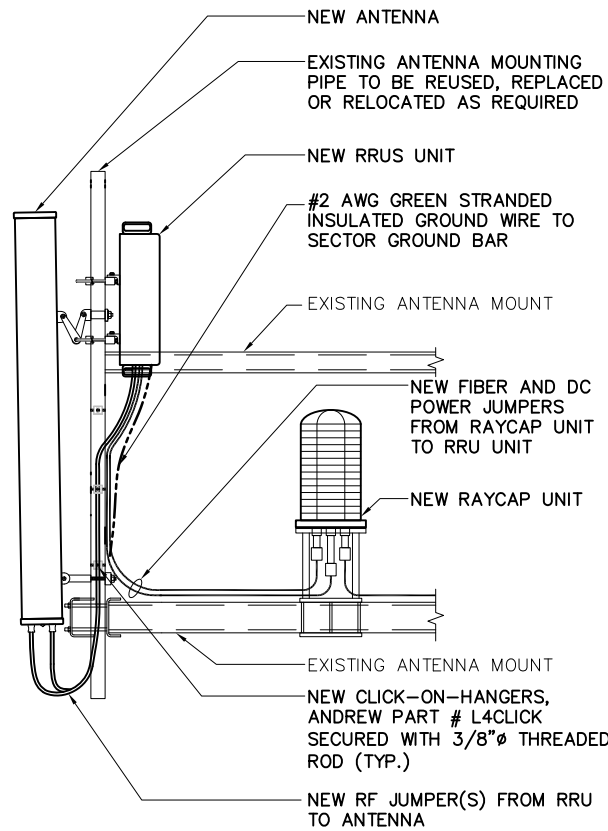
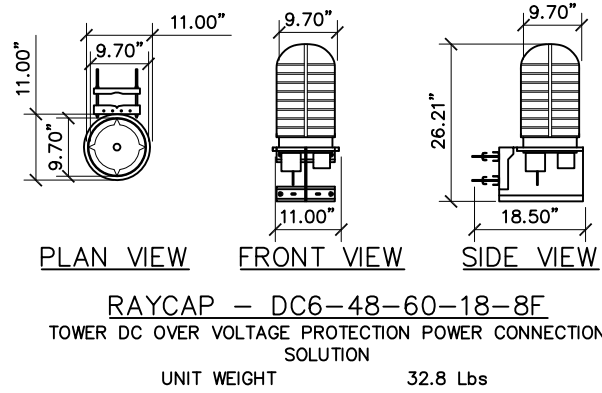
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QUINTEL - QS66512-2
 MULTISERVE MULTIBAND 12 PORT ANTENNA
 WITH QILT AND INTERNAL RET

FREQUENCY RANGE 2x698-806 MHz
 2x824-894 MHz
 4x1850-1990 MHz
 4x1695-1780 +2110-2400 MHz

ANTENNA 111 Lbs
 BRACKET 15 Lbs
 TOTAL WEIGHT 126 Lbs

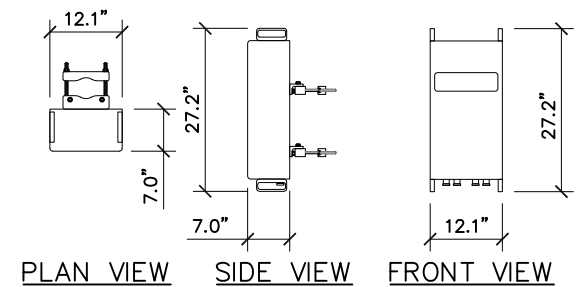


ANTENNA SPEC SCALE: N.T.S. 1

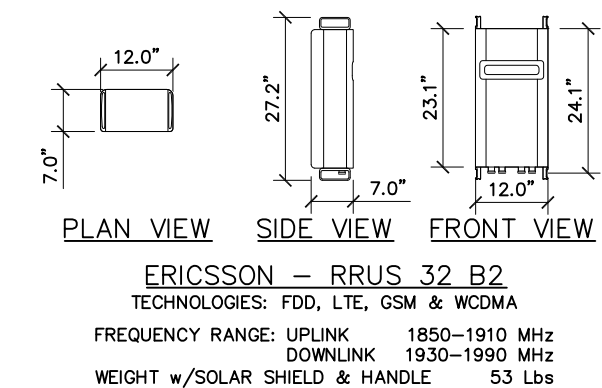
RAYCAP SPEC SCALE: N.T.S. 2

ANTENNA SCHEMATIC SCALE: N.T.S. 3

NOT USED SCALE: N.T.S. 4



ERICSSON - RRUS 32
 UNIT WEIGHT 60 Lbs



RRU SPEC SCALE: N.T.S. 5

RRU SPEC SCALE: N.T.S. 6

NOT USED SCALE: N.T.S. 7

NOT USED SCALE: N.T.S. 8



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SITE NAME
HADDAM

SITE NUMBER:
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SITE ADDRESS
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SHEET NAME
**EQUIPMENT
 DETAILS**

SHEET NUMBER
A5

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SITE NUMBER:

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SITE ADDRESS

**139 MORRIS HUBBARD ROAD
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SHEET NAME

**ANTENNA &
CABLE
CONFIGURATION**

SHEET NUMBER

A6

FINAL ANTENNA CONFIGURATION AND CABLE SCHEDULE
SUPPLIED BY AT&T WIRELESS, FROM RF CONFIG. DATED (10/04/17)

SECTOR	ANTENNA NUMBER	ANTENNA STATUS & TYPE	ANTENNA MODEL NUMBER	ANTENNA VENDOR	TMA/RRU UNIT	AZIMUTH	ANTENNA CL FROM GROUND	CABLE FEEDER		RAYCAP UNIT
								TYPE	LENGTH	
ALPHA	A-1	(E) LTE1C ANTENNA	P65-16-XLR-RR	POWERWAVE	(1) EXISTING RRUS-11 UNIT	85°	153'-0"	(1) EXISTING FIBER CABLE	200'-0"	(1) (E) DC6-48-60-18-8F UNIT (1) (N) DC6-48-60-18-8F UNIT
	A-2	(N) LTE2C/3C ANTENNA	QS66512-2	QUINTEL	(1) NEW RRUS-32 UNIT (1) NEW RRUS-32 B2 UNIT (2) NEW DBC0061F1V51-2 LOW BAND COMBINERS	85°	153'-0"	(1) NEW FIBER CABLE	200'-0"	
	A-3	-	-	-	-	-	-	-	-	
	A-4	(E) UMTS ANTENNA	7770	POWERWAVE	(2) EXISTING TMA UNITS	107°	153'-0"	7/8"φ LDF5-50A	200'-0"	
BETA	B-1	(E) LTE1C ANTENNA	P65-16-XLR-RR	POWERWAVE	(1) EXISTING RRUS-11 UNIT	205°	153'-0"	SEE ANTENNA A-1 FOR CABLE TYPE AND LENGTH		
	B-2	(N) LTE2C/3C ANTENNA	QS66512-2	QUINTEL	(1) NEW RRUS-32 UNIT (1) NEW RRUS-32 B2 UNIT (2) NEW DBC0061F1V51-2 LOW BAND COMBINERS	205°	153'-0"	SEE ANTENNA A-2 FOR CABLE TYPE AND LENGTH		
	B-3	-	-	-	-	-	-	-	-	
	B-4	(E) UMTS ANTENNA	7770	POWERWAVE	(2) EXISTING TMA UNITS	231°	153'-0"	7/8"φ LDF5-50A	200'-0"	
GAMMA	C-1	(E) LTE1C ANTENNA	P65-16-XLR-RR	POWERWAVE	(1) EXISTING RRUS-11 UNIT	335°	153'-0"	SEE ANTENNA A-1 FOR CABLE TYPE AND LENGTH		
	C-2	(N) LTE2C/3C ANTENNA	QS66512-2	QUINTEL	(1) NEW RRUS-32 UNIT (1) NEW RRUS-32 B2 UNIT (2) NEW DBC0061F1V51-2 LOW BAND COMBINERS	335°	153'-0"	SEE ANTENNA A-2 FOR CABLE TYPE AND LENGTH		
	C-3	-	-	-	-	-	-	-	-	
	C-4	(E) UMTS ANTENNA	7770	POWERWAVE	(2) EXISTING TMA UNITS	350°	153'-0"	7/8"φ LDF5-50A	200'-0"	
								7/8"φ LDF5-50A	200'-0"	

LEGEND

- (N) - NEW
- (E) - EXISTING

- CONTRACTOR IS TO REFER TO AT&T'S MOST CURRENT RADIO FREQUENCY DATA SHEET (RFDS) PRIOR TO CONSTRUCTION.
- THE SIZE, HEIGHT, AND DIRECTION OF THE ANTENNAS SHALL BE ADJUSTED TO ACHIEVE THE AZIMUTHS SPECIFIED AND LIMIT SHADOWING AND TO MEET THE SYSTEM REQUIREMENTS.
- CONTRACTOR SHALL VERIFY THE HEIGHT OF THE ANTENNA WITH THE AT&T WIRELESS PROJECT MANAGER.
- VERIFY TYPE AND SIZE OF TOWER LEG PRIOR TO ORDERING ANY ANTENNA MOUNT.
- UNLESS NOTED OTHERWISE THE CONTRACTOR MUST PROVIDE ALL MATERIAL NECESSARY.
- ANTENNA AZIMUTHS ARE DEGREES OFF OF TRUE NORTH, BEARING CLOCKWISE, IN WHICH ANTENNA FACE IS DIRECTED. ALL ANTENNAS (AND SUPPORTING STRUCTURES AS PRACTICAL) SHALL BE ACCURATELY ORIENTED IN THE SPECIFIED DIRECTION.
- CONTRACTOR SHALL VERIFY ALL RF INFORMATION PRIOR TO CONSTRUCTION.
- SWEEP TEST SHALL BE PERFORMED BY GENERAL CONTRACTOR AND SUBMITTED TO AT&T WIRELESS CONSTRUCTION SPECIALIST. TEST SHALL BE PERFORMED PER AT&T WIRELESS STANDARDS.
- CABLE LENGTHS WERE DETERMINED BASED ON THE DESIGN DRAWING. CONTRACTOR TO VERIFY ACTUAL LENGTH DURING PRE-CONSTRUCTION WALK.
- CONTRACTOR TO USE ROSENBERGER FIBER LINE HANGER COMPONENTS (OR ENGINEER APPROVED EQUAL).

ANTENNA AND CABLING NOTES

SCALE: N.T.S. 1

RF, DC, & COAX CABLE MARKING LOCATIONS TABLE	
NO	LOCATIONS
1	EACH TOP-JUMPER SHALL BE COLOR CODED WITH (1) SET OF 3" WIDE BANDS.
2	EACH MAIN COAX SHALL BE COLOR CODED WITH (1) SET OF 3" WIDE BANDS NEAR THE TOP-JUMPER CONNECTION AND WITH (1) SET OF 3/4" WIDE COLOR BANDS JUST PRIOR TO ENTERING THE BTS OR TRANSMITTER BUILDING.
3	CABLE ENTRY PORT ON THE INTERIOR OF THE SHELTER.
4	ALL BOTTOM JUMPERS SHALL BE COLOR CODED WITH (1) SET OF 3/4" WIDE BANDS ON EACH END OF THE BOTTOM JUMPER.
5	ALL BOTTOM JUMPERS SHALL BE COLOR CODED WITH (1) SET OF 3/4" WIDE BANDS ON EACH END OF THE BOTTOM JUMPER.

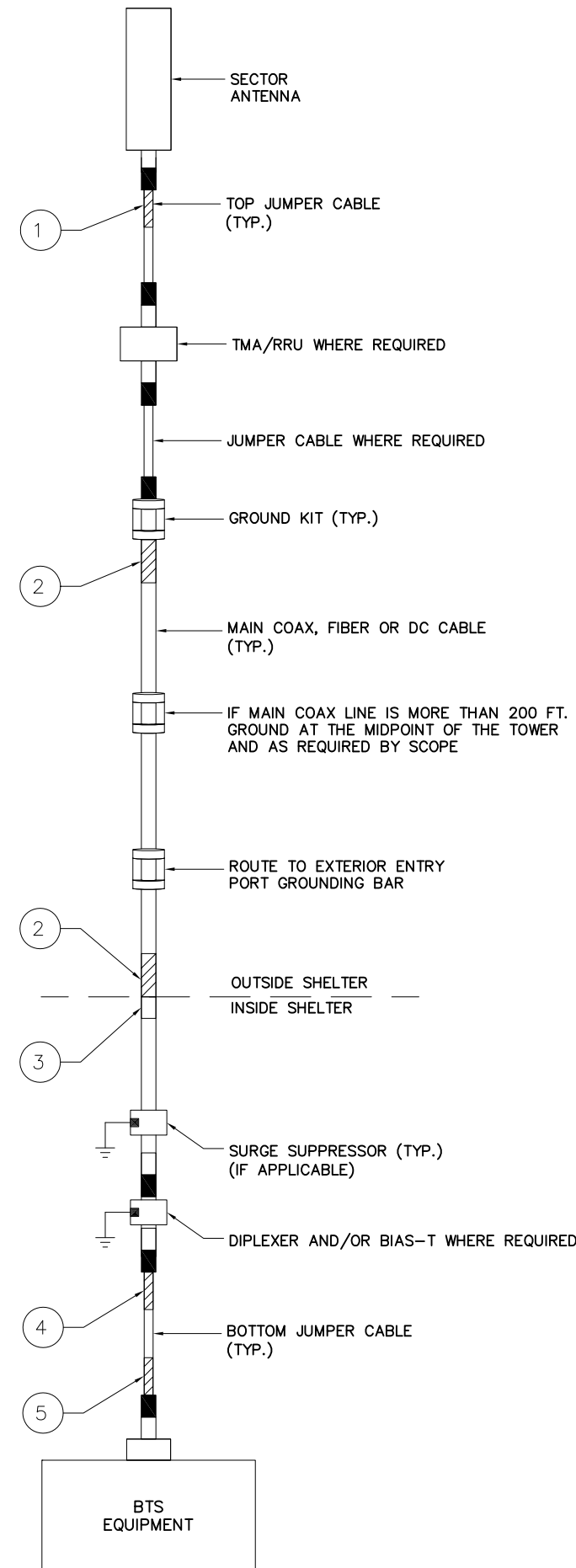
CABLE MARKING DIAGRAM

SCALE: N.T.S. 2

- THE ANTENNA SYSTEM COAX SHALL BE LABELED WITH VINYL TAPE.
- THE STANDARD IS BASED ON EIGHT COLORED TAPES-RED, BLUE, GREEN, YELLOW, ORANGE, BROWN, WHITE, AND VIOLET. THESE TAPES MUST BE 3/4" WIDE & UV RESISTANT SUCH AS SCOTCH 35 VINYL ELECTRICAL COLOR CODING TAPE AND SHOULD BE READILY AVAILABLE TO THE ELECTRICIAN OR CONTRACTOR ON SITE.
- USING COLOR BANDS ON THE CABLES, MARK ALL RF CABLE BY SECTOR AND CABLE NUMBER AS SHOWN ON "CABLE COLOR CHART".
- WHEN AN EXISTING COAXIAL LINE THAT IS INTENDED TO BE A SHARED LINE BETWEEN TECHNOLOGIES IS ENCOUNTERED, THE CONTRACTOR SHALL REMOVE THE EXISTING COLOR CODING SCHEME AND REPLACE IT WITH THE COLOR CODING STANDARD. IN THE ABSENCE OF AN EXISTING COLOR CODING AND TAGGING SCHEME, OR WHEN INSTALLING PROPOSED COAXIAL CABLES, THIS GUIDELINE SHALL BE IMPLEMENTED AT THAT SITE REGARDLESS OF TECHNOLOGY.
- ALL COLOR CODE TAPE SHALL BE 3M-35 AND SHALL BE INSTALLED USING A MINIMUM OF (3) THREE WRAPS OF TAPE AND SHALL BE NEATLY TRIMMED AND SMOOTHED OUT SO AS TO AVOID UNRAVELING.
- ALL COLOR BANDS INSTALLED AT THE TOP OF THE TOWER SHALL BE A MINIMUM OF 3" WIDE, AND SHALL HAVE A MINIMUM OF 3/4" OF SPACE BETWEEN EACH COLOR.
- ALL COLOR CODES SHALL BE INSTALLED SO AS TO ALIGN NEATLY WITH ONE ANOTHER FROM SIDE-TO-SIDE.
- IF EXISTING CABLES AT THE SITE ALREADY HAVE A COLOR CODING SCHEME AND THEY ARE NOT INTENDED TO BE REUSED OR SHARED WITH THE NEW TECHNOLOGY, THE EXISTING COLOR CODING SCHEME SHALL REMAIN UNTOUCHED.

CABLE MARKING NOTES

SCALE: N.T.S. 3



CABLE COLOR CODING DIAGRAM

SCALE: N.T.S. 4



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HADDAM

SITE NUMBER:

CTL02031

SITE ADDRESS

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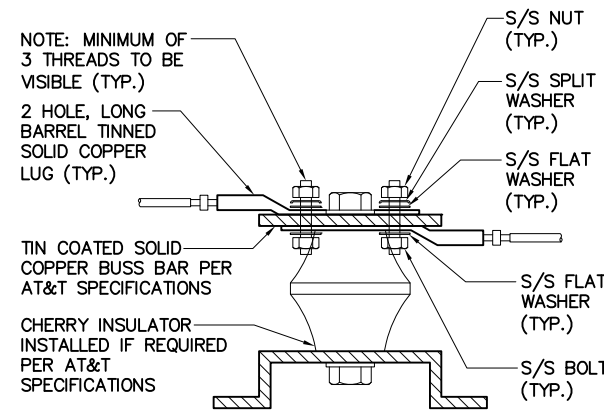
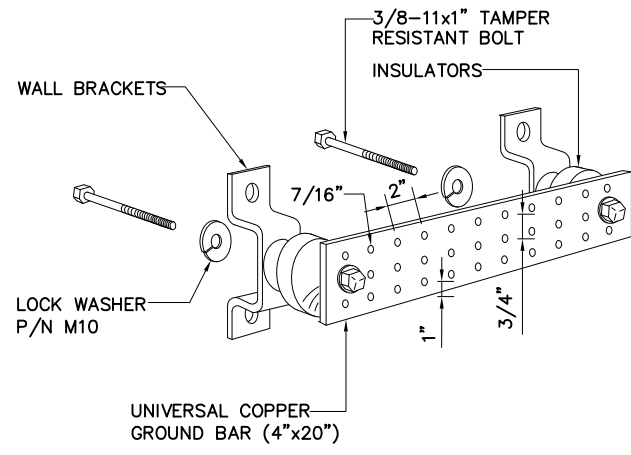
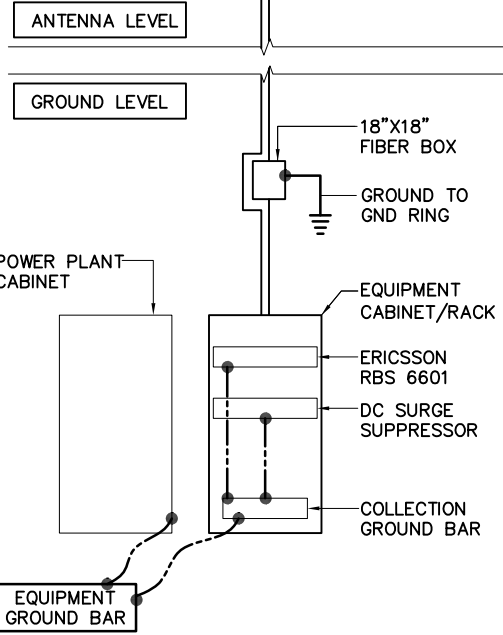
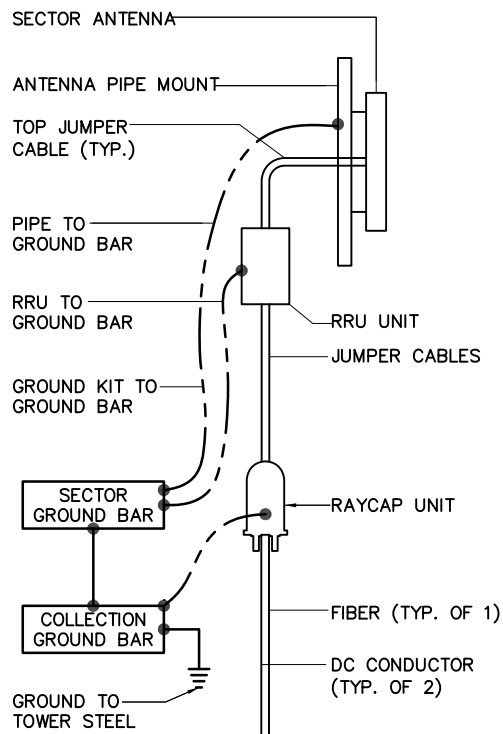
SHEET NAME

CABLE NOTES
AND COLOR
CODING

SHEET NUMBER

A7

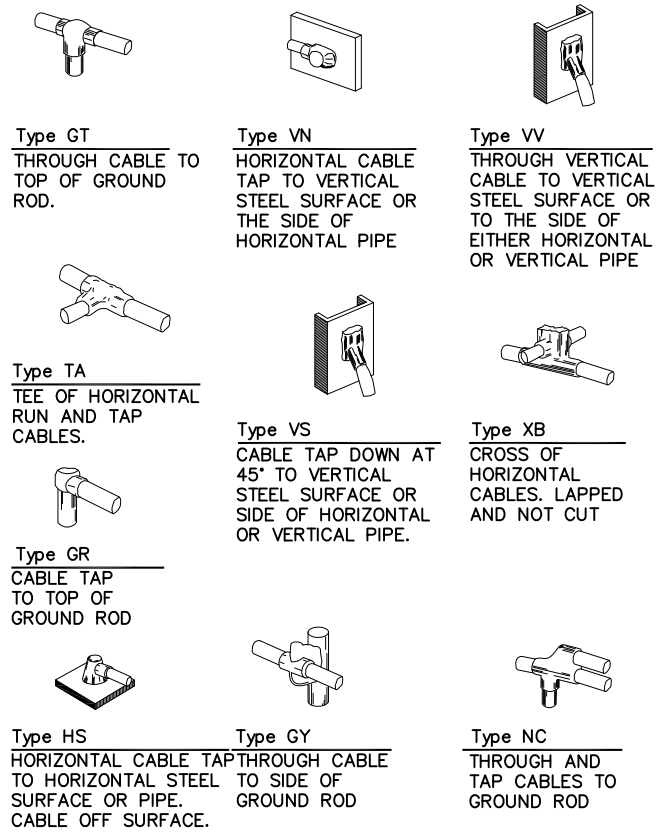
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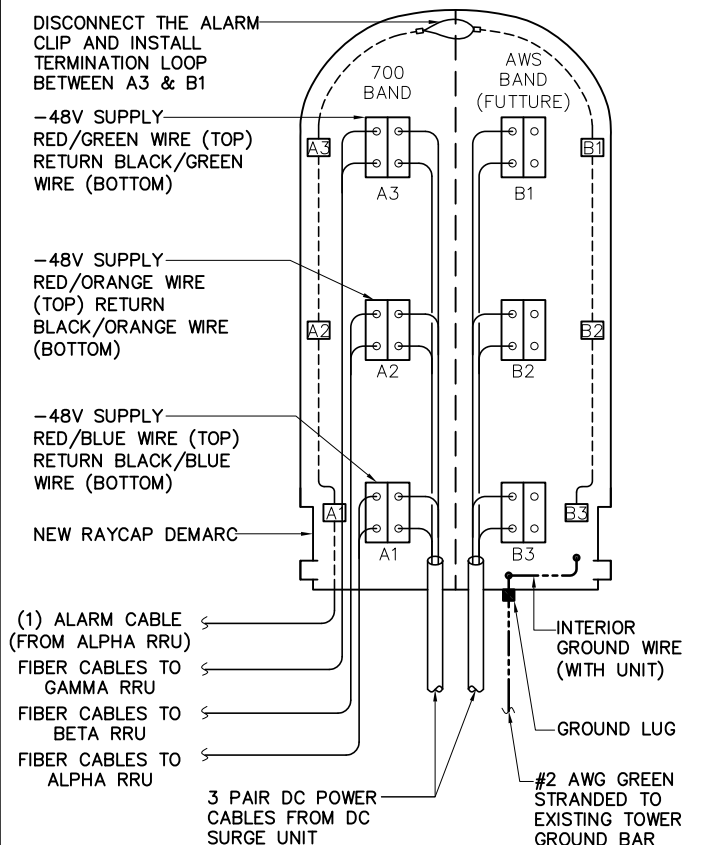
- NOTES:
1. ALL HARDWARE 18-8 STAINLESS STEEL INCLUDING SPLIT WASHERS.
 2. COAT WIRE END WITH ANTI-OXIDATION COMPOUND PRIOR TO INSERTION INTO LUG BARREL AND CRIMPING.
 3. APPLY ANTI-OXIDATION COMPOUND BETWEEN ALL LUGS AND BUSS BARS PRIOR TO MATING AND BOLTING.

GROUND BAR DETAIL SCALE: N.T.S. 2

LUG DETAIL SCALE: N.T.S. 3



EXOTHERMIC WELD DETAILS SCALE: N.T.S. 4



RAYCAP DC POWER AND ALARM DET. SCALE: N.T.S. 5

NOT USED SCALE: N.T.S. 6



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SITE NUMBER:

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SITE ADDRESS

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SHEET NAME

GROUNDING
DETAILS

SHEET NUMBER

A8

GROUNDING SCHEMATIC SCALE: N.T.S. 1

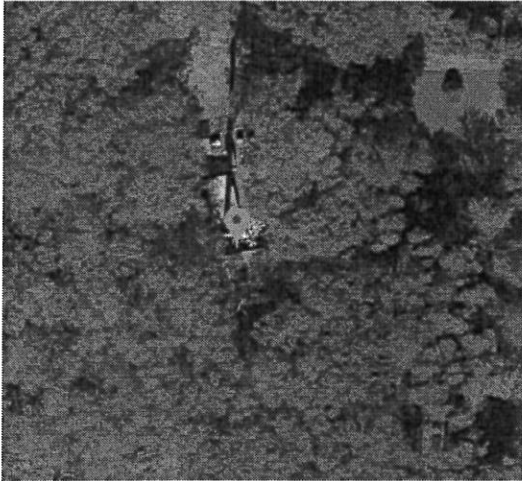
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**SmartLink, LLC on behalf of
AT&T Mobility, LLC
Site FA – 10035050
Site ID – CT2031 (MRCTB025384-
MRCTB025403)
USID – 59407
Site Name – Haddam
Site Compliance Report**

**139 Morris Hubbard Road
Haddam, CT 06438**

Latitude: N41-28-20.07
Longitude: W72-33-16.60
Structure Type: Monopole

Report generated date: December 12, 2017
Report by: Leo Romero
Customer Contact: Ryan Lynch

**AT&T Mobility, LLC will be compliant when the
remediation recommended in Section 5.2 or
other appropriate remediation is implemented.**

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1 General Site Summary

1.1 Report Summary

AT&T Mobility, LLC	Summary
Access to Antennas Locked?	Yes
RF Sign(s) @ access point(s)	No
RF Sign(s) @ antennas	No
Barrier(s) @ sectors	No
Max cumulative simulated RFE level on the Ground Level	<1% General Public Limit at AT&T Mobility, LLC Alpha, Beta and Gamma Sectors
FCC & AT&T Compliant?	Will Be Compliant

The following documents were provided by the client and were utilized to create this report:

RFDS: NEW-ENGLAND_CONNECTICUT_CTL02031_2018-LTE-Multi-Carrier_LTE_sp656b_2051A0D6QL_10035050_59407_06-21-2017_Final-Approved_v2.00

CD's: 10035050_AE201_171130_CTL02031_REV1

RF Powers Used: RFDS ERP Values

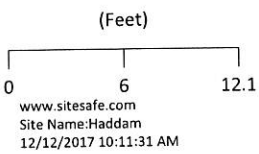
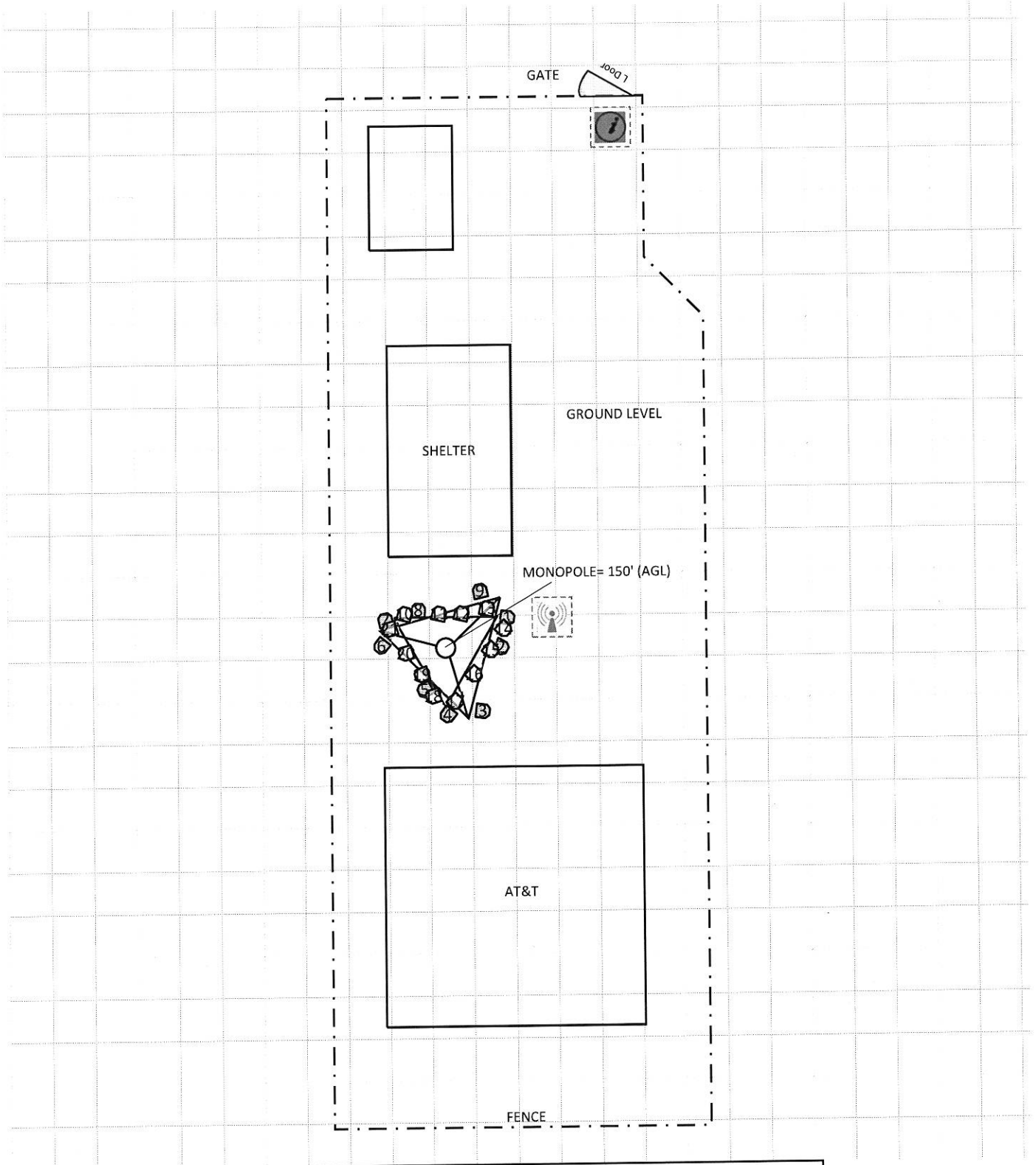


2 Scale Maps of Site

The following diagrams are included:

- Site Scale Map
- RF Exposure Diagram
- AT&T Mobility, LLC Contribution
- Elevation View

Site Scale Map For: Haddam



Carrier Identification					
Sign Legend					
Barrier			Proposed Barriers/ Signs		



3 Antenna Inventory

The following antenna inventory on this and the following page, were obtained by the customer and were utilized to create the site model diagrams:

Ant ID	Operator	Antenna Make & Model	Type	TX Freq (MHz)	Az (Deg)	Hor BW (Deg)	Ant Len (ft)	Ant Gain (dBd)	2G GSM Radio(s)	3G UMTS Radio(s)	4G Radio(s)	Total ERP (Watts)	X	Y	Z (AGL)
1	AT&T MOBILITY LLC	Powerwave P65-16-XLH-RR	Panel	737	85	66	6	12.71	0	0	1	1475.7	64'	88.2'	150'
2	AT&T MOBILITY LLC	Powerwave 7770	Panel	850	107	82	4.6	11.51	0	1	0	401.5	63.5'	85.6'	150.7'
3	AT&T MOBILITY LLC (Proposed)	Quintel QS66512-2	Panel	1900	85	68	6	14.16	0	0	1	3664.4	61.8'	80'	150'
3	AT&T MOBILITY LLC (Proposed)	Quintel QS66512-2	Panel	2300	85	64	6	14.56	0	0	1	1285.3	61.8'	80'	150'
4	AT&T MOBILITY LLC	KMW AM-X-CD-16-65-00T	Panel	737	205	65	6	13.36	0	0	1	1475.7	58.7'	79.6'	150'
5	AT&T MOBILITY LLC	Powerwave 7770	Panel	850	231	82	4.6	11.51	0	1	0	401.5	56.7'	81.9'	150.7'
6	AT&T MOBILITY LLC (Proposed)	Quintel QS66512-2	Panel	1900	205	68	6	14.16	0	0	1	3664.4	52.8'	85.8'	150'
6	AT&T MOBILITY LLC (Proposed)	Quintel QS66512-2	Panel	2300	205	64	6	14.56	0	0	1	1285.3	52.8'	85.8'	150'
7	AT&T MOBILITY LLC	KMW AM-X-CD-16-65-00T	Panel	737	335	65	6	13.36	0	0	1	1475.7	53.2'	88.1'	150'
8	AT&T MOBILITY LLC	Powerwave 7770	Panel	850	350	82	4.6	11.51	0	1	0	401.5	56.1'	89'	150.7'
9	AT&T MOBILITY LLC (Proposed)	Quintel QS66512-2	Panel	1900	335	68	6	14.16	0	0	1	3664.4	61.6'	90.6'	150'
9	AT&T MOBILITY LLC (Proposed)	Quintel QS66512-2	Panel	2300	335	64	6	14.56	0	0	1	1285.3	61.6'	90.6'	150'
10	UNKNOWN CARRIER	Generic Panel	Panel	850	0	65	4.6	12.77	-	-	-	1513.9	54.9'	88.7'	140.7'
11	UNKNOWN CARRIER	Generic Panel	Panel	1900	0	65	4.6	15.43	-	-	-	2094.8	58'	88.7'	140.7'
12	UNKNOWN CARRIER	Generic Panel	Panel	751	0	65	4.6	12.14	-	-	-	982.1	60'	88.7'	140.7'
13	UNKNOWN CARRIER	Generic Panel	Panel	2100	0	65	4.6	15.23	-	-	-	2000.6	62.2'	89.1'	140.7'
14	UNKNOWN CARRIER	Generic Panel	Panel	850	120	65	4.6	12.77	-	-	-	1513.9	63.7'	87.2'	140.7'
15	UNKNOWN CARRIER	Generic Panel	Panel	1900	120	65	4.6	15.43	-	-	-	2094.8	62.6'	85.4'	140.7'
16	UNKNOWN CARRIER	Generic Panel	Panel	751	120	65	4.6	12.14	-	-	-	982.1	61.1'	83.2'	140.7'
17	UNKNOWN CARRIER	Generic Panel	Panel	2100	120	65	4.6	15.23	-	-	-	2000.6	59.4'	80.8'	140.7'
18	UNKNOWN CARRIER	Generic Panel	Panel	850	240	65	4.6	12.77	-	-	-	1513.9	57.4'	81.3'	140.7'
19	UNKNOWN CARRIER	Generic Panel	Panel	1900	240	65	4.6	15.43	-	-	-	2094.8	56.4'	83.2'	140.7'
20	UNKNOWN CARRIER	Generic Panel	Panel	751	240	65	4.6	12.14	-	-	-	982.1	55'	85.2'	140.7'



Ant ID	Operator	Antenna Make & Model	Type	TX Freq (MHz)	Az (Deg)	Hor BW (Deg)	Ant Len (ft)	Ant Gain (dBd)	2G GSM Radio(s)	3G UMTS Radio(s)	4G Radio(s)	Total ERP (Watts)	X	Y	Z (AGL)
21	UNKNOWN CARRIER	Generic Panel	Panel	2100	240	65	4.6	15.23	-	-	-	2000.6	53.6'	87.3'	140.7'

NOTE: X, Y and Z indicate relative position of the bottom of the antenna to the origin location on the site, displayed in the model results diagram. Specifically, the Z reference indicates the bottom of the antenna height **above ground level (AGL)**. The distance to the bottom of the antenna is calculated by subtracting half of the length of the antenna from the antenna centerline. Effective Radiated Power (ERP) is provided by the operator or based on Sitesafe experience. The values used in the modeling may be greater than are currently deployed. For other operators at this site the use of "Generic" as an antenna model or "Unknown" for a wireless operator means the information with regard to operator, their FCC license and/or antenna information was not available nor could it be secured while on site. Other operator's equipment, antenna models and powers used for modeling are based on obtained information or Sitesafe experience.

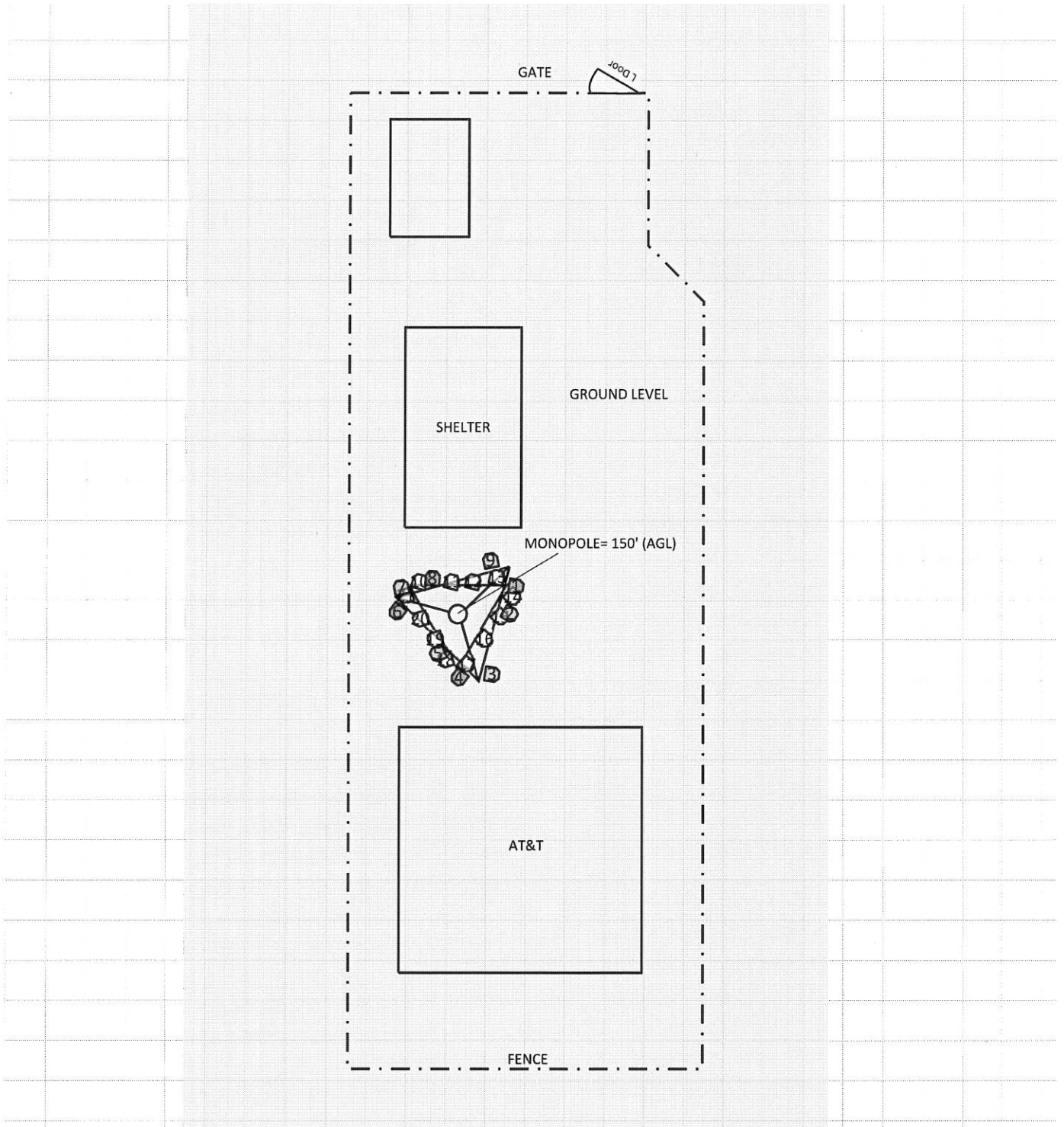


4 Emission Predictions

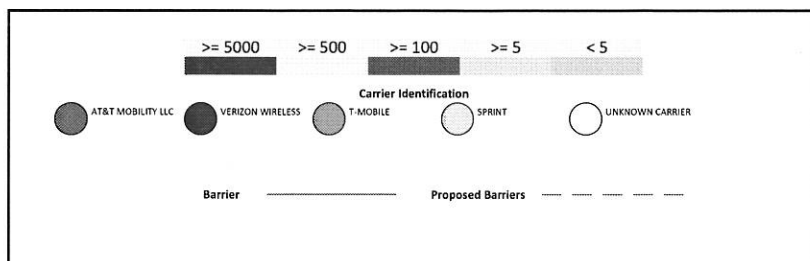
In the RF Exposure Simulations below all heights are reflected with respect to main site level. In most rooftop cases this is the height of the main rooftop and in other cases this can be ground level. Each different height area, rooftop, or platform level is labeled with its height relative to the main site level. Emissions are calculated appropriately based on the relative height and location of that area to all antennas.

The Antenna Inventory heights are referenced to the same level.

RF Exposure Simulation For: Haddam



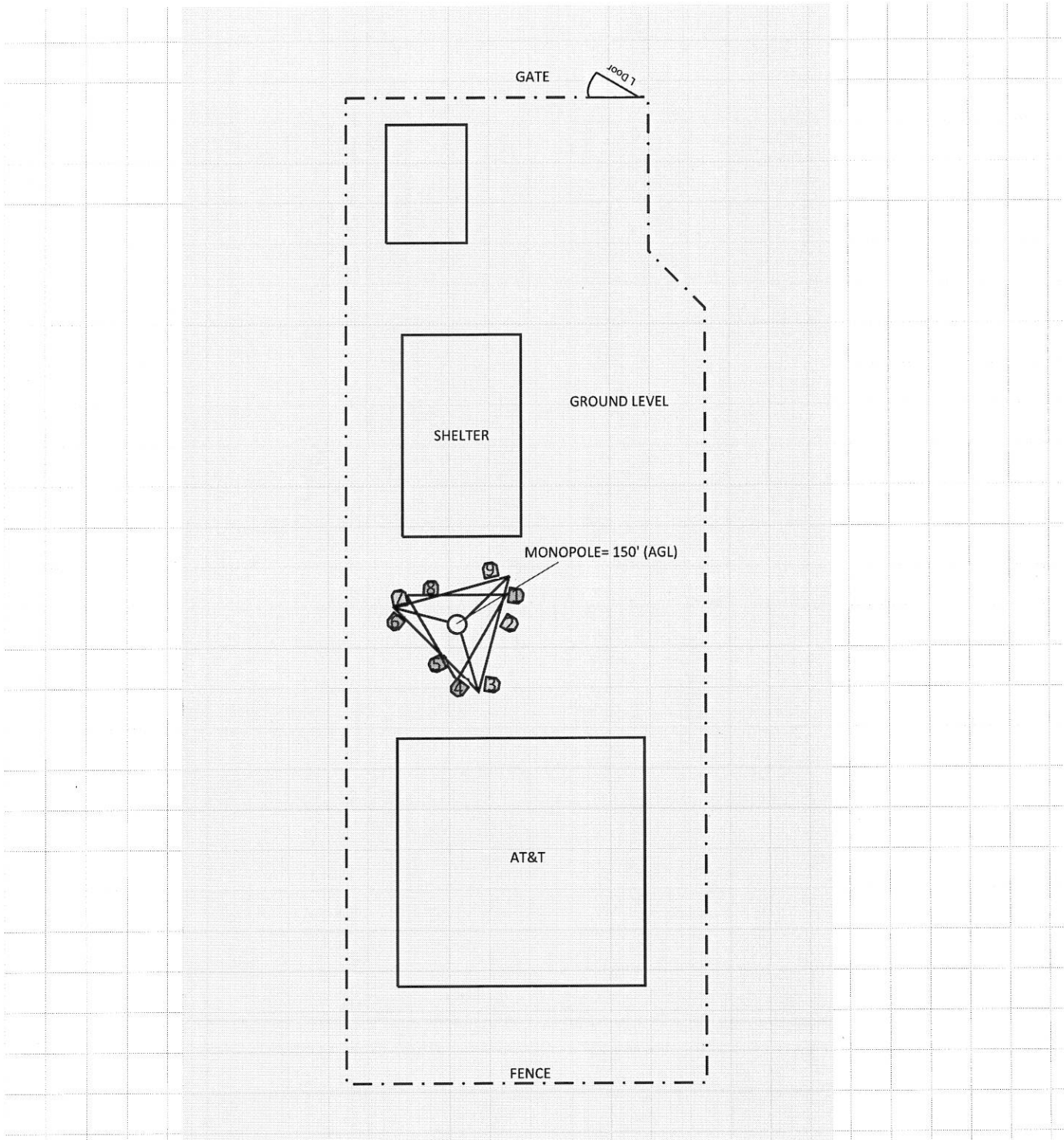
% of FCC Public Exposure Limit
Spatial average 0' - 6'



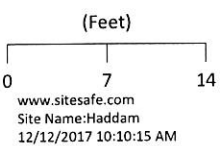
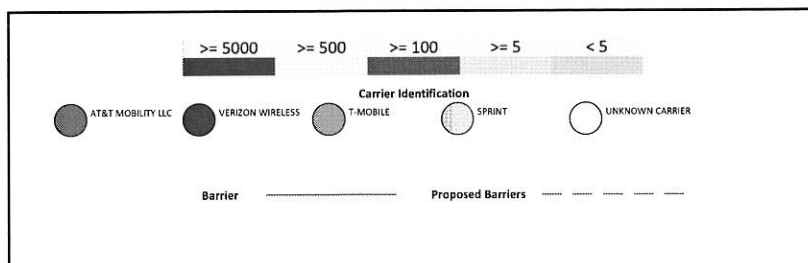
(Feet)
0 7 14
www.sitesafe.com
Site Name:Haddam
12/12/2017 10:09:18 AM

SitesafeTC Version:1.0.0.0 - 0.0.0.266
Sitesafe OET-65 Model
Near Field Boundary: 1.5 * Aperture
Reflection Factor: 1
Spatially Averaged

RF Exposure Simulation For: Haddam
 AT&T Mobility, LLC Contribution

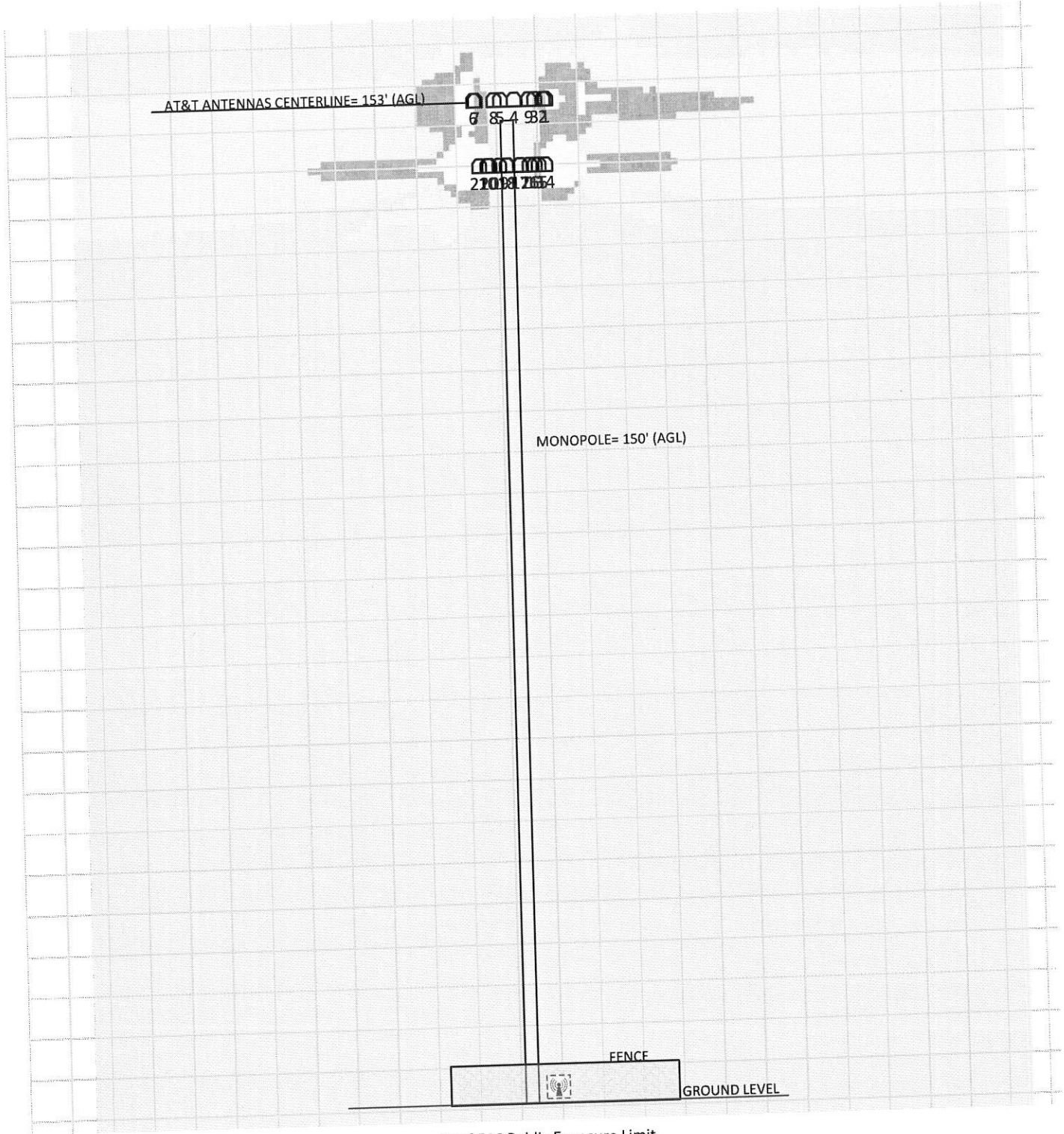


% of FCC Public Exposure Limit
 Spatial average 0' - 6'

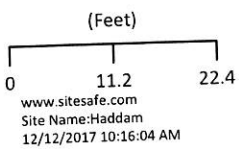


SitesafeTC Version: 1.0.0.0 - 0.0.0.266
 Sitesafe OET-65 Model
 Near Field Boundary: 1.5 * Aperture
 Reflection Factor: 1
 Spatially Averaged

RF Exposure Simulation For: Haddam



% of FCC Public Exposure Limit



	<p>Carrier Identification</p> <p>AT&T MOBILITY LLC VERIZON WIRELESS T-MOBILE SPRINT UNKNOWN CARRIER</p>
	<p>Sign Legend</p> <p>Caution 1 Caution 2 Notice 2 Notice 1 Warning Info 1 Info 2</p>
	<p>Barrier</p>
	<p>Proposed Barriers/Signs</p>

SitesafeTC Version:1.0.0.0 - 0.0.0.266
 Sitesafe OET-65 Model
 Near Field Boundary: 1.5 * Aperture
 Reflection Factor: 1
 Single Level (0)



5 Site Compliance

5.1 Site Compliance Statement

Upon evaluation of the cumulative RF emission levels from all operators at this site, RF hazard signage and antenna locations, Sitesafe has determined that:

AT&T Mobility, LLC will be compliant when the remediation recommended in Section 5.2 or other appropriate remediation is implemented.

The compliance determination is based on General Public RFE levels derived from theoretical modeling, RF signage placement, proposed antenna inventory and the level of restricted access to the antennas at the site. Any deviation from the AT&T Mobility, LLC's proposed deployment plan could result in the site being rendered non-compliant.

Modeling is used for determining compliance and the percentage of MPE contribution.

5.2 Actions for Site Compliance

Based on FCC regulations, common industry practice, and our understanding of AT&T Mobility, LLC RF Safety Policy requirements, this section provides a statement of recommendations for site compliance. Recommendations have been proposed based on our understanding of existing access restrictions, signage, and an analysis of predicted RFE levels.

AT&T Mobility, LLC will be made compliant if the following changes are implemented:

Base of Monopole

Caution 2 sign required.

Compound Gate

Information 1 sign required.



6 Reviewer Certification

The reviewer whose signature appears below hereby certifies and affirms:

That I am an employee of Sitesafe, Inc., in Arlington, Virginia, at which place the staff and I provide RF compliance services to clients in the wireless communications industry; and

That I am thoroughly familiar with the Rules and Regulations of the Federal Communications Commission (FCC) as well as the regulations of the Occupational Safety and Health Administration (OSHA), both in general and specifically as they apply to the FCC Guidelines for Human Exposure to Radio-frequency Radiation; and

That I have thoroughly reviewed this Site Compliance Report and believe it to be true and accurate to the best of my knowledge as assembled by and attested to by Leo Romero.

December 12, 2017

A handwritten signature in black ink, appearing to read "Sam Cosgrove". The signature is fluid and cursive, with a large initial "S" and "C".

Samuel Cosgrove



Appendix A – Statement of Limiting Conditions

Sitesafe has provided computer generated model(s) in this Site Compliance Report to show approximate dimensions of the site, and the model is included to assist the reader of the compliance report to visualize the site area, and to provide supporting documentation for Sitesafe's recommendations.

Sitesafe may note in the Site Compliance Report any adverse physical conditions, such as needed repairs, that Sitesafe became aware of during the normal research involved in creating this report. Sitesafe will not be responsible for any such conditions that do exist or for any engineering or testing that might be required to discover whether such conditions exist. Because Sitesafe is not an expert in the field of mechanical engineering or building maintenance, the Site Compliance Report must not be considered a structural or physical engineering report.

Sitesafe obtained information used in this Site Compliance Report from sources that Sitesafe considers reliable and believes them to be true and correct. Sitesafe does not assume any responsibility for the accuracy of such items that were furnished by other parties. When conflicts in information occur between data collected by Sitesafe provided by a second party and data collected by Sitesafe, the data will be used.



Appendix B – Regulatory Background Information

FCC Rules and Regulations

In 1996, the Federal Communications Commission (FCC) adopted regulations for the evaluating of the effects of RF emissions in 47 CFR § 1.1307 and 1.1310. The guideline from the FCC Office of Engineering and Technology is Bulletin 65 ("OET Bulletin 65"), *Evaluating Compliance with FCC Guidelines for Human Exposure to Radio Frequency Electromagnetic Fields*, Edition 97-01, published August 1997. Since 1996 the FCC periodically reviews these rules and regulations as per their congressional mandate.

FCC regulations define two separate tiers of exposure limits: Occupational or "Controlled environment" and General Public or "Uncontrolled environment". The General Public limits are generally five times more conservative or restrictive than the Occupational limit. These limits apply to accessible areas where workers or the general public may be exposed to Radio Frequency (RF) electromagnetic fields.

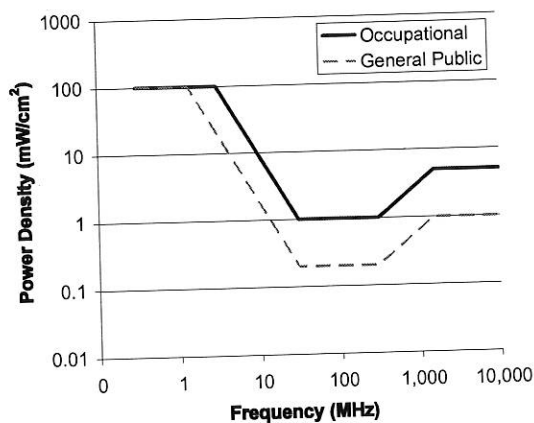
Occupational or Controlled limits apply in situations in which persons are exposed as a consequence of their employment and where those persons exposed have been made fully aware of the potential for exposure and can exercise control over their exposure.

An area is considered a Controlled environment when access is limited to these aware personnel. Typical criteria are restricted access (i.e. locked or alarmed doors, barriers, etc.) to the areas where antennas are located coupled with proper RF warning signage. A site with Controlled environments is evaluated with Occupational limits.

All other areas are considered Uncontrolled environments. If a site has no access controls or no RF warning signage it is evaluated with General Public limits.

The theoretical modeling of the RF electromagnetic fields has been performed in accordance with OET Bulletin 65. The Maximum Permissible Exposure (MPE) limits utilized in this analysis are outlined in the following diagram:

FCC Limits for Maximum Permissible Exposure (MPE)
Plane-wave Equivalent Power Density





Limits for Occupational/Controlled Exposure (MPE)

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

Limits for General Population/Uncontrolled Exposure (MPE)

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

f = frequency in MHz

*Plane-wave equivalent power density

OSHA Statement

The General Duty clause of the OSHA Act (Section 5) outlines the occupational safety and health responsibilities of the employer and employee. The General Duty clause in Section 5 states:

(a) Each employer –

- (1) shall furnish to each of his employees employment and a place of employment which are free from recognized hazards that are causing or are likely to cause death or serious physical harm to his employees;
- (2) shall comply with occupational safety and health standards promulgated under this Act.

(b) Each employee shall comply with occupational safety and health standards and all rules, regulations, and orders issued pursuant to this Act which are applicable to his own actions and conduct.

OSHA has defined Radiofrequency and Microwave Radiation safety standards for workers who may enter hazardous RF areas. Regulation Standards 29 CFR § 1910.147 identify a generic Lock Out Tag Out procedure aimed to control the unexpected energization or start up of machines when maintenance or service is being performed.



Appendix C – Safety Plan and Procedures

The following items are general safety recommendations that should be administered on a site by site basis as needed by the carrier.

General Maintenance Work: Any maintenance personnel required to work immediately in front of antennas and / or in areas indicated as above 100% of the Occupational MPE limits should coordinate with the wireless operators to disable transmitters during their work activities.

Training and Qualification Verification: All personnel accessing areas indicated as exceeding the General Population MPE limits should have a basic understanding of EME awareness and RF Safety procedures when working around transmitting antennas. Awareness training increases a workers understanding to potential RF exposure scenarios. Awareness can be achieved in a number of ways (e.g. videos, formal classroom lecture or internet based courses).

Physical Access Control: Access restrictions to transmitting antennas locations is the primary element in a site safety plan. Examples of access restrictions are as follows:

- Locked door or gate
- Alarmed door
- Locked ladder access
- Restrictive Barrier at antenna (e.g. Chain link with posted RF Sign)

RF Signage: Everyone should obey all posted signs at all times. RF signs play an important role in properly warning a worker prior to entering into a potential RF Exposure area.

Assume all antennas are active: Due to the nature of telecommunications transmissions, an antenna transmits intermittently. Always assume an antenna is transmitting. Never stop in front of an antenna. If you have to pass by an antenna, move through as quickly and safely as possible thereby reducing any exposure to a minimum.

Maintain a 3 foot clearance from all antennas: There is a direct correlation between the strength of an EME field and the distance from the transmitting antenna. The further away from an antenna, the lower the corresponding EME field is.

Site RF Emissions Diagram: Section 4 of this report contains an RF Diagram that outlines various theoretical Maximum Permissible Exposure (MPE) areas at the site. The modeling is a worst case scenario assuming a duty cycle of 100% for each transmitting antenna at full power. This analysis is based on one of two access control criteria: General Public criteria means the access to the site is uncontrolled and anyone can gain access. Occupational criteria means the access is restricted and only properly trained individuals can gain access to the antenna locations.



Appendix D – RF Emissions

The RF Emissions Simulation(s) in this report display theoretical spatially averaged percentage of the Maximum Permissible Exposure for all systems at the site unless otherwise noted. These diagrams use modeling as prescribed in OET Bulletin 65 and assumptions detailed in Appendix E.

The key at the bottom of each RF Emissions Simulation indicates percentages displayed referenced to FCC General Public Maximum Permissible Exposure (MPE) limits. Color coding on the diagram is as follows:

- Areas indicated as Gray are predicted to be below 5% of the MPE limits. **Gray represents areas more than 20 times below the most conservative exposure limit.**
- Green represents areas are predicted to be between 5% and 100% of the MPE limits. **Green areas are accessible to anyone.**
- Blue represents areas predicted to exceed the General Public MPE limits but are less than Occupational limits. **Blue areas should be accessible only to RF trained workers.**
- Yellow represents areas predicted to exceed Occupational MPE limits. **Yellow areas should be accessible only to RF trained workers able to assess current exposure levels.**
- Red represents areas predicted to have exposure more than 10 times the Occupational MPE limits. **Red indicates that the RF levels must be reduced prior to access.** An RF Safety Plan is required which outlines how to reduce the RF energy in these areas prior to access.



Appendix E – Assumptions and Definitions

General Model Assumptions

In this site compliance report, it is assumed that all antennas are operating at **full power at all times**. Software modeling was performed for all transmitting antennas located on the site. Sitesafe has further assumed a 100% duty cycle and maximum radiated power.

The modeling is based on recommendations from the FCC's OET-65 bulletin with the following variances per AT&T guidance. Reflection has not been considered in the modeling, i.e. the reflection factor is 1.0. The near / far field boundary has been set to 1.5 times the aperture height of the antenna and modeling beyond that point is the lesser of the near field cylindrical model and the far field model taking into account the gain of the antenna.

The site has been modeled with these assumptions to show the maximum RF energy density. Areas modeled with exposure greater than 100% of the General Public MPE level may not actually occur, but are shown as a prediction that could be realized. Sitesafe believes these areas to be safe for entry by occupationally trained personnel utilizing appropriate personal protective equipment (in most cases, a personal monitor).

Use of Generic Antennas

For the purposes of this report, the use of "Generic" as an antenna model, or "Unknown" for an operator means the information about a carrier, their FCC license and/or antenna information was not provided and could not be obtained while on site. In the event of unknown information, Sitesafe will use our industry specific knowledge of equipment, antenna models, and transmit power to model the site. If more specific information can be obtained for the unknown measurement criteria, Sitesafe recommends remodeling of the site utilizing the more complete and accurate data. Information about similar facilities is used when the service is identified and associated with a particular antenna. If no information is available regarding the transmitting service associated with an unidentified antenna, using the antenna manufacturer's published data regarding the antenna's physical characteristics makes more conservative assumptions.

Where the frequency is unknown, Sitesafe uses the closest frequency in the antenna's range that corresponds to the highest Maximum Permissible Exposure (MPE), resulting in a conservative analysis.



Definitions

5% Rule – The rules adopted by the FCC specify that, in general, at multiple transmitter sites actions necessary to bring the area into compliance with the guidelines are the shared responsibility of all licensees whose transmitters produce field strengths or power density levels at the area in question in excess of 5% of the exposure limits. In other words, any wireless operator that contributes 5% or greater of the MPE limit in an area that is identified to be greater than 100% of the MPE limit is responsible taking corrective actions to bring the site into compliance.

Compliance – The determination of whether a site is safe or not with regards to Human Exposure to Radio Frequency Radiation from transmitting antennas.

Decibel (dB) – A unit for measuring power or strength of a signal.

Duty Cycle – The percent of pulse duration to the pulse period of a periodic pulse train. Also, may be a measure of the temporal transmission characteristic of an intermittently transmitting RF source such as a paging antenna by dividing average transmission duration by the average period for transmission. A duty cycle of 100% corresponds to continuous operation.

Effective (or Equivalent) Isotropic Radiated Power (EIRP) – The product of the power supplied to the antenna and the antenna gain in a given direction relative to an isotropic antenna.

Effective Radiated Power (ERP) – In a given direction, the relative gain of a transmitting antenna with respect to the maximum directivity of a half wave dipole multiplied by the net power accepted by the antenna from the connecting transmitter.

Gain (of an antenna) – The ratio of the maximum intensity in a given direction to the maximum radiation in the same direction from an isotropic radiator. Gain is a measure of the relative efficiency of a directional antennas as compared to an omni directional antenna.

General Population/Uncontrolled Environment – Defined by the FCC, as an area where exposure to RF energy may occur to persons who are **unaware** of the potential for exposure and who have no control of their exposure. General Population is also referenced as General Public.

Generic Antenna – For the purposes of this report, the use of "Generic" as an antenna model means the antenna information was not provided and could not be obtained while on site. In the event of unknown information, Sitesafe will use our industry specific knowledge of antenna models to select a worst case scenario antenna to model the site.

Isotropic Antenna – An antenna that is completely non-directional. In other words, an antenna that radiates energy equally in all directions.

Maximum Measurement – This measurement represents the single largest measurement recorded when performing a spatial average measurement.

Maximum Permissible Exposure (MPE) – The maximum levels of RF exposure a person may be exposed to without harmful effect and with acceptable safety factor.

Occupational/Controlled Environment – Defined by the FCC, as an area where Radio Frequency Radiation (RFR) exposure may occur to persons who are **aware** of the



potential for exposure as a condition of employment or specific activity and can exercise control over their exposure.

OET Bulletin 65 – Technical guideline developed by the FCC's Office of Engineering and Technology to determine the impact of Radio Frequency radiation on Humans. The guideline was published in August 1997.

OSHA (Occupational Safety and Health Administration) – Under the Occupational Safety and Health Act of 1970, employers are responsible for providing a safe and healthy workplace for their employees. OSHA's role is to promote the safety and health of America's working men and women by setting and enforcing standards; providing training, outreach and education; establishing partnerships; and encouraging continual process improvement in workplace safety and health. For more information, visit www.osha.gov.

Radio Frequency (RF) – The frequencies of electromagnetic waves which are used for radio communications. Approximately 3 kHz to 300 GHz.

Radio Frequency Exposure (RFE) – The amount of RF power density that a person is or might be exposed to.

Spatial Average Measurement – A technique used to average a minimum of ten (10) measurements taken in a ten (10) second interval from zero (0) to six (6) feet. This measurement is intended to model the average power density an average sized human will be exposed to at a location.

Transmitter Power Output (TPO) – The radio frequency output power of a transmitter's final radio frequency stage as measured at the output terminal while connected to a load.



Appendix F – References

The following references can be followed for further information about RF Health and Safety.

Sitesafe, Inc.

<http://www.sitesafe.com>

FCC Radio Frequency Safety

<http://www.fcc.gov/encyclopedia/radio-frequency-safety>

National Council on Radiation Protection and Measurements (NCRP)

<http://www.ncrponline.org>

Institute of Electrical and Electronics Engineers, Inc., (IEEE)

<http://www.ieee.org>

American National Standards Institute (ANSI)

<http://www.ansi.org>

Environmental Protection Agency (EPA)

<http://www.epa.gov/radtown/wireless-tech.html>

National Institutes of Health (NIH)

<http://www.niehs.nih.gov/health/topics/agents/emf/>

Occupational Safety and Health Agency (OSHA)

<http://www.osha.gov/SLTC/radiofrequencyradiation/>

International Commission on Non-Ionizing Radiation Protection (ICNIRP)

<http://www.icnirp.org>

World Health Organization (WHO)

<http://www.who.int/peh-emf/en/>

National Cancer Institute

<http://www.cancer.gov/cancertopics/factsheet/Risk/cellphones>

American Cancer Society (ACS)

http://www.cancer.org/docroot/PED/content/PED_1_3X_Cellular_Phone_Towers.asp?sitearea=PED

European Commission Scientific Committee on Emerging and Newly Identified Health Risks

http://ec.europa.eu/health/ph_risk/committees/04_scenihr/docs/scenihr_o_022.pdf

Fairfax County, Virginia Public School Survey

<http://www.fcps.edu/fts/safety-security/RFEESurvey/>

UK Health Protection Agency Advisory Group on Non-ionising Radiation

http://www.hpa.org.uk/webw/HPAweb&HPAwebStandard/HPAweb_C/1317133826368

Norwegian Institute of Public Health

<http://www.fhi.no/dokumenter/545eea7147.pdf>



AMERICAN TOWER®
CORPORATION

This report was prepared for American Tower Corporation by



**TOWER
ENGINEERING
PROFESSIONALS**

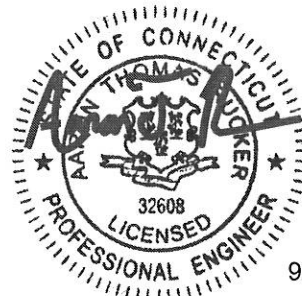
Structural Analysis Report

Structure : 150 ft Monopole
ATC Site Name : Hddm - Haddam, CT
ATC Site Number : 302494
Engineering Number : OAA713049_C3_01
Proposed Carrier : AT&T Mobility
Carrier Site Name : Higganum Morris Hubbard Road
Carrier Site Number : CTL02031 / 10035050
Site Location : 139 Morris Hubbard Rd
Higganum, CT 06441-4307
41.472200,-72.554600
County : Middlesex
Date : September 26, 2017
Max Usage : 88%
Result : Pass

Prepared By:
Charles Cages, E.I.
TEP

Charles Cages

Reviewed By:



9/26/17

COA: PEC.0001553



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Introduction

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

Supporting Documents

Tower Drawings	ITT Meyer Type "B", Mapping by Smith Cullum, Acq. #CT-0027, dated August 23, 2001
Foundation Drawing	Mapping by FDH, Project #01-1004, dated October 12, 2001
Geotechnical Report	GeoTechnologies Project #1-04-0265-EA, dated March 4, 2004
Modifications	VSI Job #MR-311, Rev. 1, dated April 28, 2006

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:	101 mph (3-Second Gust, V_{ASD}) / 130 mph (3-Second Gust, V_{ULT})
Basic Wind Speed w/ Ice:	50 mph (3-Second Gust) w/ 3/4" radial ice concurrent
Code:	ANSI/TIA-222-G / 2012 IBC / 2016 Connecticut State Building Code
Structure Class:	II
Exposure Category:	B
Topographic Category:	1
Spectral Response:	$S_s = 0.18, S_1 = 0.06$
Site Class:	D - Stiff Soil

Conclusion

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

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



Existing and Reserved Equipment

Elevation ¹ (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
150.0	160.0	2	Decibel DB910CE-M	Platform w/ Handrails	(2) 1 5/8" Coax	Sprint Nextel
	153.0	1	Raycap DC6-48-60-18-8F ("Squid")		(12) 1 5/8" Coax (2) 0.78" 8 AWG 6 (1) 3" Conduit	AT&T Mobility
		6	Powerwave LGP17201			
		3	Ericsson RRUS 11 (Band 12) (55 lb)			
		3	Powerwave 7770.00			
		2	KMW AM-X-CD-16-65-00T-RET			
		1	Powerwave P65-17-XLH-RR (50 lbs)			
141.0	141.0	3	RFS APXV18-206517LS-C	Flush	(6) 1 5/8" Coax	Metro PCS
131.0	131.0	6	Alcatel-Lucent RRH2x50-08	Low Profile Platform	(8) 1 1/4" Coax (4) 1 1/4" Hybriflex	Sprint Nextel
		3	Alcatel-Lucent 1900MHz 4x45 RRH			
		9	Decibel DB844H90E-XY			
		3	Alcatel-Lucent TD-RRH8x20-25 w/ Solar Shield			
		3	KMW ETCR-654L12H6			
50.0	50.0	1	Lucent KS-24019	Stand-Off	(1) 1/2" Coax	

Equipment to be Removed

Elevation ¹ (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
150.0	153.0	3	Powerwave 7770.00	-	(1) 0.39" Cable	AT&T Mobility
		6	LGP LGP21903			

Proposed Equipment

Elevation ¹ (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
150.0	153.0	6	Kaelus DBC0061F1V51-2	Platform w/ Handrails	(2) 0.78" 8 AWG 6 (1) 3" Conduit (2) 0.39" Fiber	AT&T Mobility
		1	Raycap DC6-48-60-18-8F ("Squid")			
		3	Ericsson RRUS 32 B2			
		3	Ericsson RRUS-32 (77 lbs)			
		3	Quintel QS66512-2			

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

Install proposed coax inside the pole shaft.



Structure Usages

Structural Component	Controlling Usage	Pass/Fail
Anchor Bolts	72%	Pass
Shaft	84%	Pass
Base Plate	28%	Pass
Flanges	80%	Pass
Reinforcement	88%	Pass

Foundations

Reaction Component	Analysis Reactions	% of Usage
Moment (Kips-Ft)	2,309.3	91%
Axial (Kips)	41.2	48%
Shear (Kips)	21.9	11%

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

Deflection and Sway*

Antenna Elevation (ft)	Antenna	Carrier	Deflection (ft)	Sway (Rotation) (°)
150.0	Kaelus DBC0061F1V51-2	AT&T Mobility	2.361	1.888
	Raycap DC6-48-60-18-8F ("Squid")			
	Ericsson RRUS 32 B2			
	Ericsson RRUS-32 (77 lbs)			
	Quintel QS66512-2			

*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:

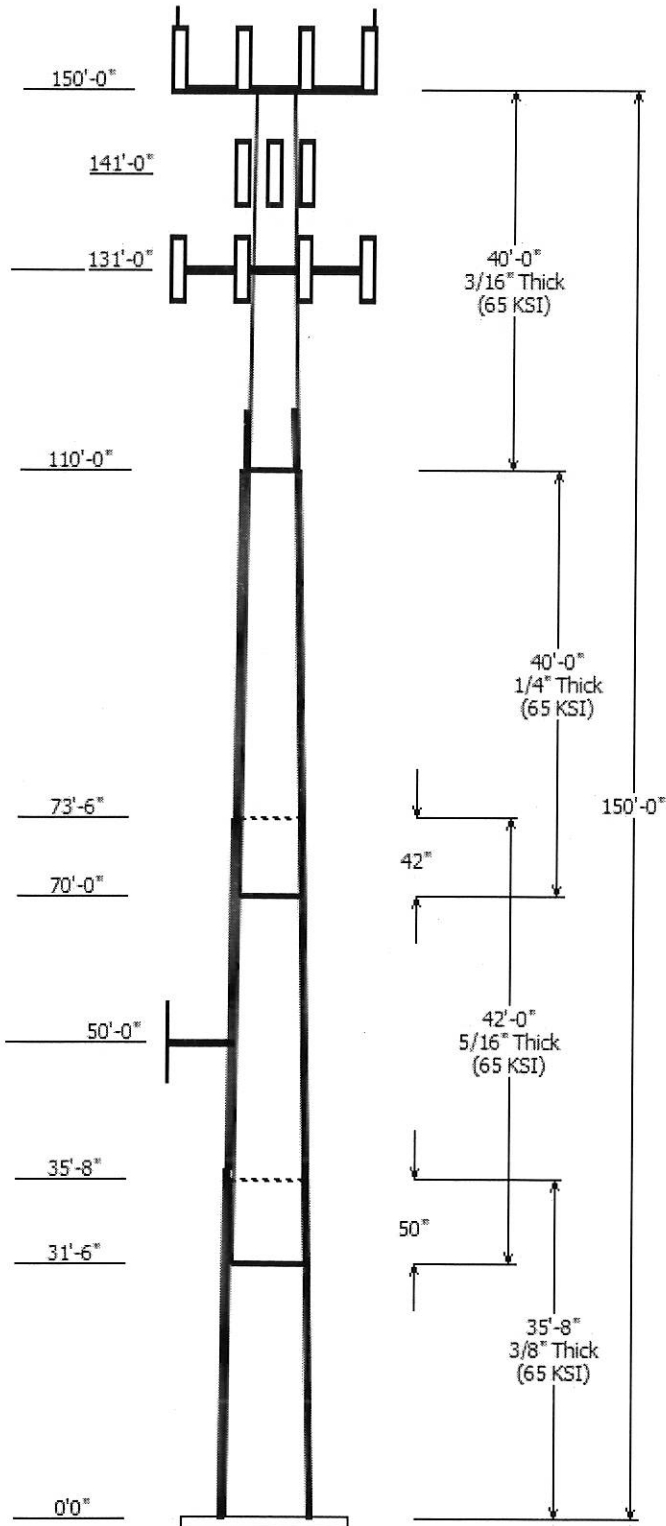
- Information supplied by the client regarding the structure itself, antenna, mounts and feed line loading on the structure and its components, or other relevant information.
- Information from drawings in the possession of American Tower Corporation, or generated by field inspections or measurements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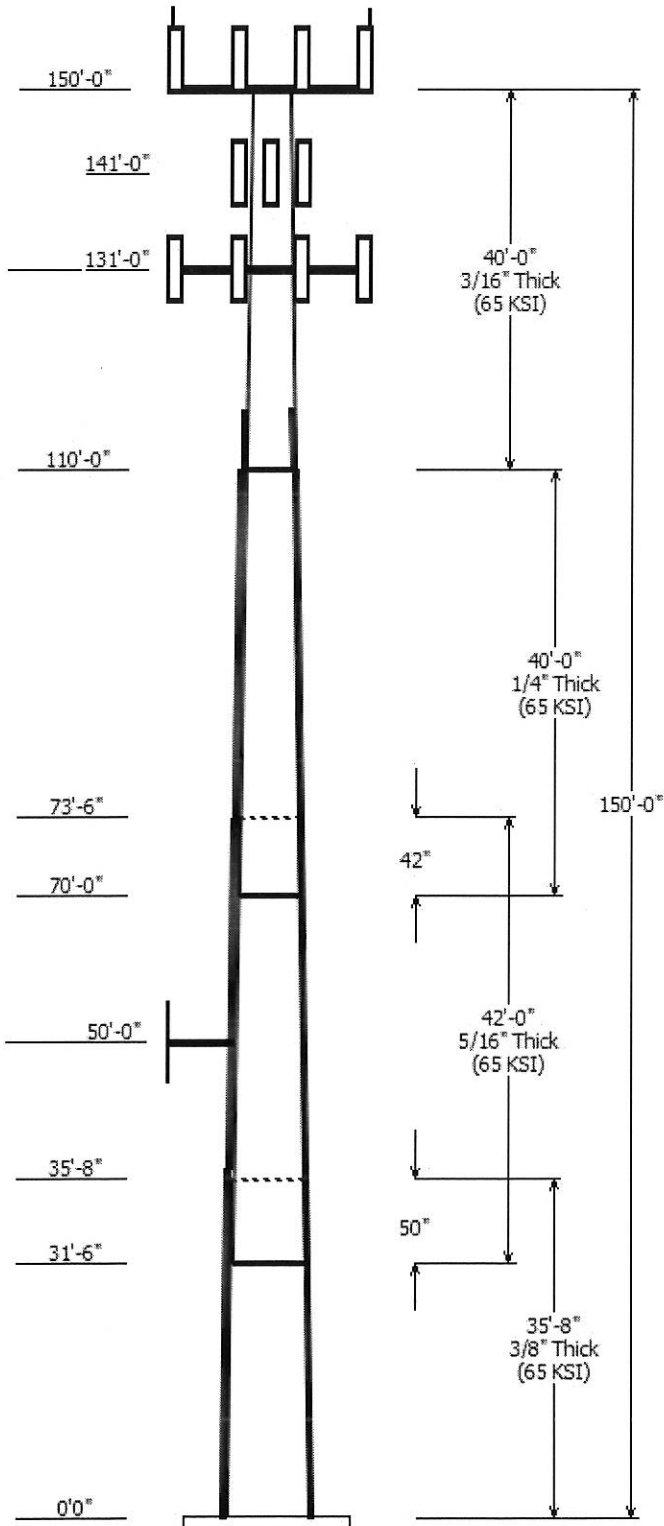


Job Information	
Pole :	302494
Code:	ANSI/TIA-222-G
Description :	150 ft ITT Meyer Type "B" Monopole
Client :	AT&T MOBILITY
Struct Class :	II
Location :	Hddm - Haddam, CT
Shape :	12 Sides
Exposure :	B
Height :	150.00 (ft)
Topo :	1
Base Elev (ft):	0.00
Taper:	0.15670@in/ft

Sections Properties								
Shaft Section	Length (ft)	Diameter (in)		Thick Joint (in)	Type	Overlap Length (in)	Taper (in/ft)	Steel Grade (ksi)
		Across Top	Flats Bottom					
1	35.667	31.79	37.38	0.375		0.000	0.156700	65
2	42.000	26.48	33.06	0.313	Slip Joint	50.000	0.156700	65
3	40.000	21.26	27.53	0.250	Slip Joint	42.000	0.156700	65
4	40.000	15.00	21.26	0.188	Butt Joint	0.000	0.156700	65

Discrete Appurtenance			
Attach Elev (ft)	Force Elev (ft)	Qty	Description
150.000	153.000	3	Quintel QS66512-2
150.000	153.000	3	Ericsson RRUS-32 (77 lbs)
150.000	153.000	3	Ericsson RRUS 32 B2
150.000	153.000	6	Kaelus DBC0061F1V51-2
150.000	153.000	1	Raycap DC6-48-60-18-8F
150.000	160.000	2	Decibel DB910CE-M
150.000	153.000	1	Powerwave P65-17-XLH-RR (50
150.000	153.000	2	KMW AM-X-CD-16-65-00T-RET
150.000	153.000	1	Raycap DC6-48-60-18-8F
150.000	153.000	3	Ericsson RRUS 11 (Band 12) (55
150.000	153.000	3	Powerwave Allgon 7770.00
150.000	153.000	6	Powerwave LGP17201
150.000	150.000	1	Round Platform w/ Handrails
141.000	141.000	3	RFS APXV18-206517LS-C
131.000	131.000	3	Alcatel-Lucent 1900 MHz 4x45
131.000	131.000	3	Alcatel-Lucent TD-RRH8x20-25
131.000	131.000	6	Alcatel-Lucent RRH2x50-08
131.000	131.000	3	KMW ETCR-654L12H6
131.000	131.000	1	Round Low Profile Platform
131.000	131.000	9	Decibel DB844H90E-XY
50.000	50.000	1	Stand-Off
50.000	50.000	1	Lucent KS-24019

Linear Appurtenance			
Elev (ft) From	To	Description	Exposed To Wind
8.000	131.0	1 1/4" Coax	Yes
8.000	131.0	1 1/4" Hybriflex	Yes
8.000	141.0	1 5/8" Coax	Yes
8.000	150.0	0.39" (10mm)	No
8.000	150.0	0.78" 8 AWG 6	No
8.000	150.0	0.78" 8 AWG 6	No
8.000	150.0	1 5/8" Coax	No
8.000	150.0	1 5/8" Coax	No
8.000	150.0	3" Conduit	No
8.000	150.0	3" Conduit	No
8.000	50.000	1/2" Coax	Yes
0.000	118.0	Reinf.	Yes

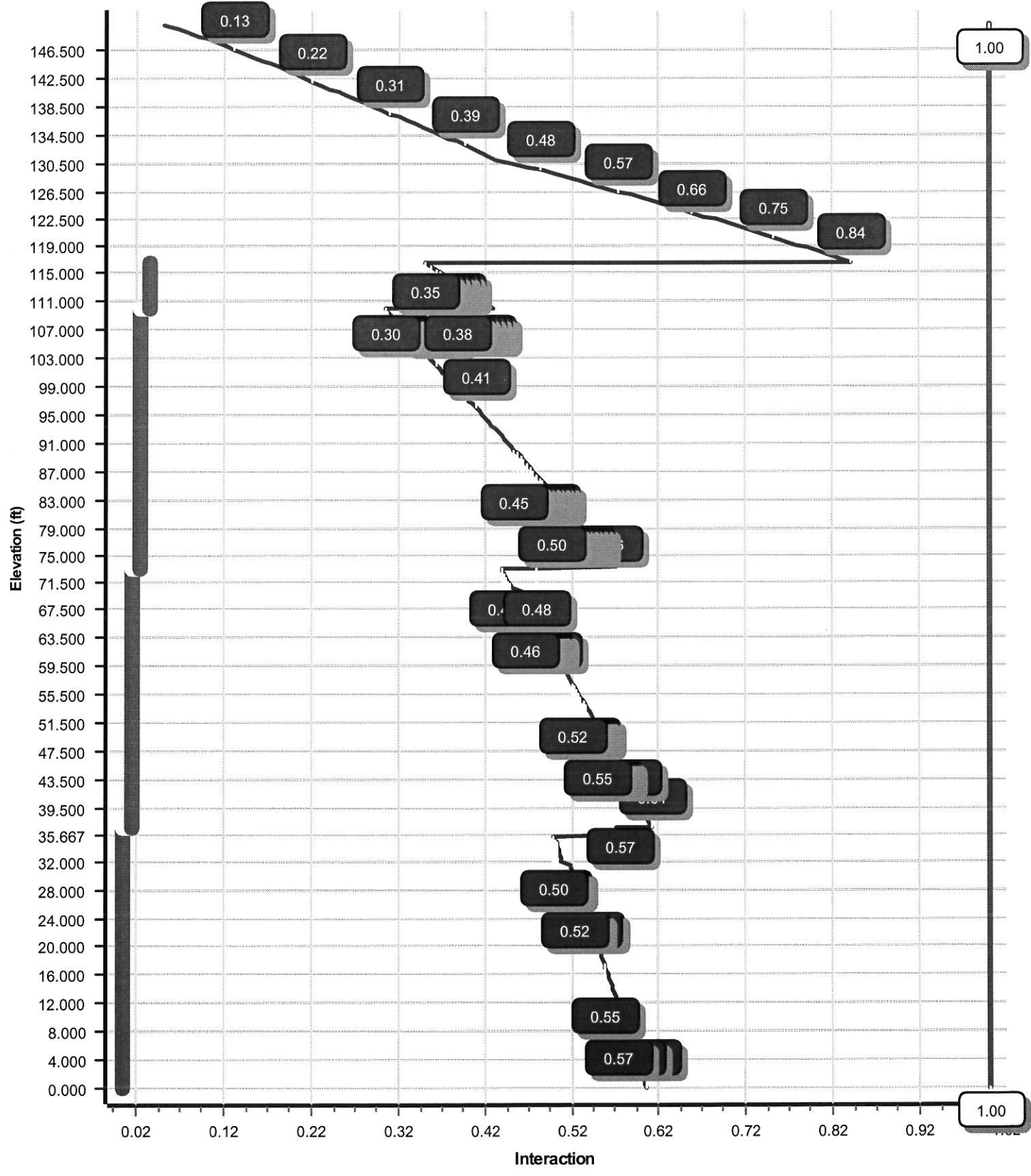


Load Cases	
1.2D + 1.6W	101 mph with No Ice
0.9D + 1.6W	101 mph with No Ice (Reduced DL)
1.2D + 1.0Di + 1.0Wi	50 mph with 0.75 in Radial Ice
(1.2 + 0.2Sds) * DL + E	Seismic Equivalent Lateral Forces Method
(1.2 + 0.2Sds) * DL + E	Seismic Equivalent Modal Analysis Method
(0.9 - 0.2Sds) * DL + E	Seismic (Reduced DL) Equivalent Lateral
(0.9 - 0.2Sds) * DL + E	Seismic (Reduced DL) Equivalent Modal
1.0D + 1.0W	Serviceability 60 mph

Reactions			
Load Case	Moment (kip-ft)	Shear (kip)	Axial (kip)
1.2D + 1.6W	2309.28	21.94	41.21
0.9D + 1.6W	2170.14	20.97	30.91
1.2D + 1.0Di + 1.0Wi	509.62	4.42	65.10
(1.2 + 0.2Sds) * DL + E ELFM	172.51	1.34	42.36
(1.2 + 0.2Sds) * DL + E EMAM	263.03	2.14	42.36
(0.9 - 0.2Sds) * DL + E ELFM	168.26	1.34	29.52
(0.9 - 0.2Sds) * DL + E EMAM	256.21	2.14	29.52
1.0D + 1.0W	482.26	4.62	34.35

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 83.85% at 116.5 ft



Site Number: 302494

Code: ANSI/TIA-222-G

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Site Name: Hddm - Haddam, CT

Engineering Number: OAA713049_C3_01

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Customer: AT&T MOBILITY

Analysis Parameters

Location:	MIDDLESEX County, CT	Height (ft):	150
Code:	ANSI/TIA-222-G	Base Diameter (in):	37.38
Shape:	12 Sides	Top Diameter (in):	15.00
Pole Type:	Taper	Taper (in/ft) :	0.157
Pole Manufacturer:	ITT Meyer	Rotation (deg) :	0.00

Ice & Wind Parameters

Structure Class:	II	Design Wind Speed Without Ice:	101 mph
Exposure Category:	B	Design Wind Speed With Ice:	50 mph
Topographic Category:	1	Operational Wind Speed:	60 mph
Crest Height:	0.0 ft	Design Ice Thickness:	0.75 in

Seismic Parameters

Analysis Method:	Equivalent Modal Analysis & Equivalent Lateral Force Methods		
Site Class:	D - Stiff Soil		
Period Based on Rayleigh Method (sec):	2.90		
T _L (sec):	6	p:	1.3
S _s :	0.176	S ₁ :	0.061
F _a :	1.600	F _v :	2.400
S _{ds} :	0.188	S _{d1} :	0.098
		C _s :	0.030
		C _s Max:	0.030
		C _s Min:	0.030

Load Cases

1.2D + 1.6W	101 mph with No Ice
0.9D + 1.6W	101 mph with No Ice (Reduced DL)
1.2D + 1.0Di + 1.0Wi	50 mph with 0.75 in Radial Ice
(1.2 + 0.2S _{ds}) * DL + E ELFM	Seismic Equivalent Lateral Forces Method
(1.2 + 0.2S _{ds}) * DL + E EMAM	Seismic Equivalent Modal Analysis Method
(0.9 - 0.2S _{ds}) * DL + E ELFM	Seismic (Reduced DL) Equivalent Lateral Forces Method
(0.9 - 0.2S _{ds}) * DL + E EMAM	Seismic (Reduced DL) Equivalent Modal Analysis Method
1.0D + 1.0W	Serviceability 60 mph

Site Number: 302494

Code: ANSI/TIA-222-G

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Site Name: Hddm - Haddam, CT

Engineering Number: OAA713049_C3_01

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Customer: AT&T MOBILITY

Shaft Section Properties

Sect Info	Length (ft)	Thick (in)	Fy (ksi)	Slip		Weight (lb)	Bottom						Top						
				Joint Type	Joint Len (in)		Dia (in)	Elev (ft)	Area (in ²)	Ix (in ⁴)	W/t Ratio	D/t Ratio	Dia (in)	Elev (ft)	Area (in ²)	Ix (in ⁴)	W/t Ratio	D/t Ratio	Taper (in/ft)
1-12	35.667	0.3750	65		0.00	5,014	37.38	0.00	44.68	7810.1	24.03	99.68	31.79	35.67	37.93	4778.9	20.04	84.78	0.156700
2-12	42.000	0.3125	65	Slip	50.00	4,237	33.06	31.50	32.96	4514.2	25.68	105.82	26.48	73.50	26.34	2303.3	20.03	84.76	0.156700
3-12	40.000	0.2500	65	Slip	42.00	2,646	27.53	70.00	21.97	2087.4	26.83	110.14	21.26	110.00	16.92	954.0	20.12	85.07	0.156700
4-12	40.000	0.1875	65	Butt	0.00	1,475	21.26	110.00	12.73	721.9	27.71	113.43	15.00	150.00	8.94	250.5	18.76	80.00	0.156700
Shaft Weight						13,372													

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		
150.00	Decibel DB910CE-M	2	8.00	1.280	1.00	76.67	2.979	1.00	0.000	10.000
150.00	Ericsson RRUS 11 (Band 12)	3	55.00	2.520	0.67	135.39	3.165	0.67	0.000	3.000
150.00	Ericsson RRUS 32 B2	3	53.00	2.740	0.67	141.09	3.473	0.67	0.000	3.000
150.00	Ericsson RRUS-32 (77 lbs)	3	77.00	3.310	0.67	174.44	4.595	0.67	0.000	3.000
150.00	Kaelus DBC0061F1V51-2	6	25.50	0.510	0.50	58.39	1.041	0.50	0.000	3.000
150.00	KMW AM-X-CD-16-65-00T-	2	48.50	8.020	0.67	237.29	9.314	0.67	0.000	3.000
150.00	Powerwave Allgon 7770.00	3	35.00	5.510	0.65	170.06	6.560	0.65	0.000	3.000
150.00	Powerwave LGP17201	6	31.00	1.670	0.50	79.54	2.210	0.50	0.000	3.000
150.00	Powerwave P65-17-XLH-RR	1	50.00	11.470	0.67	299.95	13.122	0.67	0.000	3.000
150.00	Quintel QS66512-2	3	111.00	8.130	0.74	338.24	9.429	0.74	0.000	3.000
150.00	Raycap DC6-48-60-18-8F	1	31.80	1.280	1.00	124.73	2.853	1.00	0.000	3.000
150.00	Raycap DC6-48-60-18-8F	1	31.80	1.280	1.00	124.73	2.853	1.00	0.000	3.000
150.00	Round Platform w/ Handrails	1	2000.00	27.100	1.00	3,298.22	51.500	1.00	0.000	0.000
141.00	RFS APXV18-206517LS-C	3	22.00	5.020	0.68	136.47	6.248	0.68	0.000	0.000
131.00	Alcatel-Lucent 1900 MHz	3	60.00	2.320	0.67	153.58	2.983	0.67	0.000	0.000
131.00	Alcatel-Lucent RRH2x50-08	6	52.90	1.700	0.50	123.22	2.241	0.50	0.000	0.000
131.00	Alcatel-Lucent TD-RRH8x20-	3	70.00	4.050	0.67	163.41	5.364	0.67	0.000	0.000
131.00	Decibel DB844H90E-XY	9	14.00	3.610	0.74	122.79	4.494	0.74	0.000	0.000
131.00	KMW ETCR-654L12H6	3	84.90	15.710	0.61	402.89	17.379	0.61	0.000	0.000
131.00	Round Low Profile Platform	1	1500.00	21.700	0.80	2,140.36	40.676	0.80	0.000	0.000
50.00	Lucent KS-24019	1	4.00	0.910	1.00	34.62	1.014	1.00	0.000	0.000
50.00	Stand-Off	1	100.00	3.000	0.67	143.76	4.407	0.67	0.000	0.000
Totals		65	6316.70			14,912.97			Number of Loadings : 22	

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
8.00	150.00	2	0.39" (10mm) Fiber	0.39	0.06	N	0.00	AT&T Mobility
8.00	150.00	2	0.78" 8 AWG 6	0.78	0.59	N	0.00	AT&T Mobility
8.00	150.00	2	0.78" 8 AWG 6	0.78	0.59	N	0.00	AT&T Mobility
8.00	150.00	12	1 5/8" Coax	1.98	0.82	N	0.00	AT&T Mobility
8.00	150.00	2	1 5/8" Coax	1.98	0.82	N	0.00	Sprint Nextel
8.00	150.00	1	3" Conduit	3.50	7.58	N	0.00	AT&T Mobility
8.00	150.00	1	3" Conduit	3.50	7.58	N	0.00	AT&T Mobility
8.00	141.00	6	1 5/8" Coax	1.98	0.82	N	1.98	Metro PCS
8.00	131.00	8	1 1/4" Coax	1.55	0.63	N	1.55	Sprint Nextel
8.00	131.00	4	1 1/4" Hybriflex Cable	1.54	1.00	N	0.00	Sprint Nextel
0.00	118.00	3	Reinf.	1.25	0.00	N	0.00	--
8.00	50.00	1	1/2" Coax	0.63	0.15	N	0.00	Sprint Nextel

Site Number: 302494

Code: ANSI/TIA-222-G

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Site Name: Hddm - Haddam, CT

Engineering Number: OAA713049_C3_01

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Customer: AT&T MOBILITY

Additional Steel

Elev From (ft)	Elev To (ft)	Qty	Description	Fy (ksi)	Offset (in)	— Intermediate Connections —		Connectors	Continuation?	
						Description	Spacing (in)			Len (in)
0.00	36.67	3	PL 7 x 1.25	65	0.00	5/8" Hollo Bolt	18.0	0.00	5/8" Hollo Bolt	No
36.67	73.33	3	PL 6 x 1.25	65	0.00	5/8" Hollo Bolt	18.0	0.00	5/8" Hollo Bolt	Yes
73.33	110.0	3	PL 5" x 1.25"	65	0.00	5/8" Hollo Bolt	18.0	0.00	5/8" Hollo Bolt	Yes
110.0	116.5	3	PL 4 x 1.25	65	0.00	5/8" Hollo Bolt	18.0	3.00	5/8" Hollo Bolt	Yes

Site Number: 302494

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Site Name: Hddm - Haddam, CT

Engineering Number: OAA713049_C3_01

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Customer: AT&T MOBILITY

Segment Properties (Max Len : 0. ft)

Seg Top Elev (ft)	Description	Thick (in)	Flat Dia (in)	Area (in ²)	Ix (in ⁴)	W/t Ratio	D/t Ratio	F'y (ksi)	S (in ³)	Z (in ³)	Weight (lb)	Additional Reinforcing		
												Area (in ²)	Ix (in ⁴)	Weight (lb)
0.00		0.3750	37.380	44.684	7,810.1	24.03	99.68	78.5	403.6	0.0	0.0	26.25	4,951	0.0
0.50		0.3750	37.302	44.589	7,760.6	23.97	99.47	78.6	401.9	0.0	75.9	26.25	4,932	44.6
1.00		0.3750	37.223	44.494	7,711.3	23.92	99.26	78.6	400.2	0.0	75.8	26.25	4,912	44.6
1.50		0.3750	37.145	44.400	7,662.2	23.86	99.05	78.7	398.5	0.0	75.6	26.25	4,892	44.6
2.00		0.3750	37.067	44.305	7,613.3	23.81	98.84	78.8	396.8	0.0	75.5	26.25	4,872	44.6
2.50		0.3750	36.988	44.210	7,564.6	23.75	98.64	78.8	395.1	0.0	75.3	26.25	4,853	44.6
3.00		0.3750	36.910	44.116	7,516.2	23.69	98.43	78.9	393.4	0.0	75.1	26.25	4,833	44.6
3.50		0.3750	36.832	44.021	7,467.9	23.64	98.22	78.9	391.7	0.0	75.0	26.25	4,813	44.6
4.00		0.3750	36.753	43.927	7,419.9	23.58	98.01	79.0	390.0	0.0	74.8	26.25	4,794	44.6
4.50		0.3750	36.675	43.832	7,372.0	23.53	97.80	79.1	388.3	0.0	74.7	26.25	4,774	44.6
5.00		0.3750	36.597	43.737	7,324.4	23.47	97.59	79.1	386.6	0.0	74.5	26.25	4,755	44.6
5.50		0.3750	36.518	43.643	7,277.0	23.41	97.38	79.2	385.0	0.0	74.3	26.25	4,735	44.6
6.00		0.3750	36.440	43.548	7,229.8	23.36	97.17	79.2	383.3	0.0	74.2	26.25	4,716	44.6
6.50		0.3750	36.361	43.454	7,182.7	23.30	96.96	79.3	381.6	0.0	74.0	26.25	4,697	44.6
7.00		0.3750	36.283	43.359	7,135.9	23.25	96.75	79.4	379.9	0.0	73.9	26.25	4,677	44.6
7.50		0.3750	36.205	43.264	7,089.3	23.19	96.55	79.4	378.3	0.0	73.7	26.25	4,658	44.6
8.00		0.3750	36.126	43.170	7,042.9	23.13	96.34	79.5	376.6	0.0	73.5	26.25	4,639	44.6
8.50		0.3750	36.048	43.075	6,996.7	23.08	96.13	79.5	375.0	0.0	73.4	26.25	4,620	44.6
9.00		0.3750	35.970	42.981	6,950.7	23.02	95.92	79.6	373.3	0.0	73.2	26.25	4,600	44.6
9.50		0.3750	35.891	42.886	6,904.9	22.97	95.71	79.7	371.7	0.0	73.0	26.25	4,581	44.6
10.00		0.3750	35.813	42.791	6,859.3	22.91	95.50	79.7	370.0	0.0	72.9	26.25	4,562	44.6
10.50		0.3750	35.735	42.697	6,813.9	22.85	95.29	79.8	368.4	0.0	72.7	26.25	4,543	44.6
11.00		0.3750	35.656	42.602	6,768.7	22.80	95.08	79.9	366.7	0.0	72.6	26.25	4,524	44.6
11.50		0.3750	35.578	42.508	6,723.7	22.74	94.87	79.9	365.1	0.0	72.4	26.25	4,505	44.6
12.00		0.3750	35.500	42.413	6,678.9	22.69	94.67	80.0	363.5	0.0	72.2	26.25	4,486	44.6
12.50		0.3750	35.421	42.318	6,634.3	22.63	94.46	80.0	361.8	0.0	72.1	26.25	4,467	44.6
13.00		0.3750	35.343	42.224	6,589.9	22.57	94.25	80.1	360.2	0.0	71.9	26.25	4,449	44.6
13.50		0.3750	35.265	42.129	6,545.7	22.52	94.04	80.2	358.6	0.0	71.8	26.25	4,430	44.6
14.00		0.3750	35.186	42.035	6,501.7	22.46	93.83	80.2	357.0	0.0	71.6	26.25	4,411	44.6
14.50		0.3750	35.108	41.940	6,457.9	22.41	93.62	80.3	355.4	0.0	71.4	26.25	4,392	44.6
15.00		0.3750	35.029	41.845	6,414.3	22.35	93.41	80.3	353.7	0.0	71.3	26.25	4,374	44.6
15.50		0.3750	34.951	41.751	6,370.9	22.29	93.20	80.4	352.1	0.0	71.1	26.25	4,355	44.6
16.00		0.3750	34.873	41.656	6,327.7	22.24	92.99	80.5	350.5	0.0	71.0	26.25	4,336	44.6
16.50		0.3750	34.794	41.561	6,284.7	22.18	92.79	80.5	348.9	0.0	70.8	26.25	4,318	44.6
17.00		0.3750	34.716	41.467	6,241.9	22.13	92.58	80.6	347.3	0.0	70.6	26.25	4,299	44.6
17.50		0.3750	34.638	41.372	6,199.3	22.07	92.37	80.6	345.8	0.0	70.5	26.25	4,281	44.6
18.00		0.3750	34.559	41.278	6,156.8	22.01	92.16	80.7	344.2	0.0	70.3	26.25	4,262	44.6
18.50		0.3750	34.481	41.183	6,114.6	21.96	91.95	80.8	342.6	0.0	70.1	26.25	4,244	44.6
19.00		0.3750	34.403	41.088	6,072.5	21.90	91.74	80.8	341.0	0.0	70.0	26.25	4,226	44.6
19.50		0.3750	34.324	40.994	6,030.7	21.85	91.53	80.9	339.4	0.0	69.8	26.25	4,207	44.6
20.00		0.3750	34.246	40.899	5,989.0	21.79	91.32	80.9	337.8	0.0	69.7	26.25	4,189	44.6
20.50		0.3750	34.168	40.805	5,947.6	21.73	91.11	81.0	336.3	0.0	69.5	26.25	4,171	44.6
21.00		0.3750	34.089	40.710	5,906.3	21.68	90.90	81.1	334.7	0.0	69.3	26.25	4,153	44.6
21.50		0.3750	34.011	40.615	5,865.2	21.62	90.70	81.1	333.1	0.0	69.2	26.25	4,135	44.6
22.00		0.3750	33.933	40.521	5,824.3	21.57	90.49	81.2	331.6	0.0	69.0	26.25	4,116	44.6
22.50		0.3750	33.854	40.426	5,783.6	21.51	90.28	81.3	330.0	0.0	68.9	26.25	4,098	44.6
23.00		0.3750	33.776	40.332	5,743.1	21.45	90.07	81.3	328.5	0.0	68.7	26.25	4,080	44.6
23.50		0.3750	33.698	40.237	5,702.8	21.40	89.86	81.4	326.9	0.0	68.5	26.25	4,062	44.6
24.00		0.3750	33.619	40.142	5,662.7	21.34	89.65	81.4	325.4	0.0	68.4	26.25	4,044	44.6
24.50		0.3750	33.541	40.048	5,622.7	21.29	89.44	81.5	323.9	0.0	68.2	26.25	4,026	44.6
25.00		0.3750	33.462	39.953	5,583.0	21.23	89.23	81.6	322.3	0.0	68.1	26.25	4,009	44.6
25.50		0.3750	33.384	39.859	5,543.4	21.17	89.02	81.6	320.8	0.0	67.9	26.25	3,991	44.6
26.00		0.3750	33.306	39.764	5,504.0	21.12	88.82	81.7	319.3	0.0	67.7	26.25	3,973	44.6
26.50		0.3750	33.227	39.669	5,464.8	21.06	88.61	81.7	317.7	0.0	67.6	26.25	3,955	44.6
27.00		0.3750	33.149	39.575	5,425.8	21.01	88.40	81.8	316.2	0.0	67.4	26.25	3,938	44.6
27.50		0.3750	33.071	39.480	5,387.0	20.95	88.19	81.9	314.7	0.0	67.3	26.25	3,920	44.6
28.00		0.3750	32.992	39.386	5,348.4	20.89	87.98	81.9	313.2	0.0	67.1	26.25	3,902	44.6
28.50		0.3750	32.914	39.291	5,309.9	20.84	87.77	81.9	311.7	0.0	66.9	26.25	3,885	44.6

Site Number: 302494

Code: ANSI/TIA-222-G

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Site Name: Hddm - Haddam, CT

Engineering Number: OAA713049_C3_01

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Customer: AT&T MOBILITY

29.00		0.3750	32.836	39.196	5,271.7	20.78	87.56	81.9	310.2	0.0	66.8	26.25	3,867	44.6
29.50		0.3750	32.757	39.102	5,233.6	20.73	87.35	81.9	308.6	0.0	66.6	26.25	3,850	44.6
30.00		0.3750	32.679	39.007	5,195.7	20.67	87.14	81.9	307.1	0.0	66.4	26.25	3,832	44.6
30.50		0.3750	32.601	38.912	5,158.0	20.61	86.94	81.9	305.7	0.0	66.3	26.25	3,815	44.6
31.00		0.3750	32.522	38.818	5,120.4	20.56	86.73	81.9	304.2	0.0	66.1	26.25	3,797	44.6
31.50	Bot - Section 2	0.3750	32.444	38.723	5,083.1	20.50	86.52	81.9	302.7	0.0	66.0	26.25	3,780	44.6
32.00		0.3750	32.366	38.629	5,045.9	20.45	86.31	81.9	301.2	0.0	121.8	26.25	3,902	44.6
32.50		0.3750	32.287	38.534	5,008.9	20.39	86.10	81.9	299.7	0.0	121.5	26.25	3,884	44.6
33.00		0.3750	32.209	38.439	4,972.1	20.33	85.89	81.9	298.2	0.0	121.2	26.25	3,867	44.6
33.50		0.3750	32.131	38.345	4,935.5	20.28	85.68	81.9	296.7	0.0	120.9	26.25	3,849	44.6
34.00		0.3750	32.052	38.250	4,899.1	20.22	85.47	81.9	295.3	0.0	120.6	26.25	3,832	44.6
34.50		0.3750	31.974	38.156	4,862.8	20.17	85.26	81.9	293.8	0.0	120.3	26.25	3,814	44.6
35.00		0.3750	31.895	38.061	4,826.7	20.11	85.05	81.9	292.3	0.0	120.0	26.25	3,797	44.6
35.50		0.3750	31.817	37.966	4,790.8	20.05	84.85	81.9	290.9	0.0	119.7	26.25	3,780	44.6
35.67	Top - Section 1	0.3125	32.416	32.304	4,249.6	25.12	103.73	77.3	253.3	0.0	39.8	26.25	3,774	14.9
36.00		0.3125	32.364	32.252	4,228.9	25.07	103.56	77.4	252.4	0.0	36.6	26.25	3,762	29.8
36.50		0.3125	32.285	32.173	4,198.0	25.00	103.31	77.4	251.2	0.0	54.8	26.25	3,745	44.6
36.67	Reinf. Top Reinf	0.3125	32.259	32.146	4,187.5	24.98	103.23	77.5	250.8	0.0	18.6	26.25	3,739	15.2
37.00		0.3125	32.207	32.094	4,167.2	24.94	103.06	77.5	250.0	0.0	36.1	22.50	3,183	25.2
37.50		0.3125	32.129	32.015	4,136.6	24.87	102.81	77.6	248.7	0.0	54.5	22.50	3,168	38.3
38.00		0.3125	32.050	31.936	4,106.1	24.80	102.56	77.7	247.5	0.0	54.4	22.50	3,154	38.3
38.50		0.3125	31.972	31.857	4,075.7	24.73	102.31	77.7	246.3	0.0	54.3	22.50	3,139	38.3
39.00		0.3125	31.894	31.779	4,045.6	24.67	102.06	77.8	245.0	0.0	54.1	22.50	3,124	38.3
39.50		0.3125	31.815	31.700	4,015.5	24.60	101.81	77.9	243.8	0.0	54.0	22.50	3,110	38.3
40.00		0.3125	31.737	31.621	3,985.6	24.53	101.56	78.0	242.6	0.0	53.9	22.50	3,095	38.3
40.50		0.3125	31.659	31.542	3,955.9	24.47	101.31	78.0	241.4	0.0	53.7	22.50	3,081	38.3
41.00		0.3125	31.580	31.463	3,926.3	24.40	101.06	78.1	240.2	0.0	53.6	22.50	3,066	38.3
41.50		0.3125	31.502	31.384	3,896.9	24.33	100.81	78.2	239.0	0.0	53.5	22.50	3,052	38.3
42.00		0.3125	31.424	31.306	3,867.6	24.26	100.56	78.3	237.8	0.0	53.3	22.50	3,037	38.3
42.50		0.3125	31.345	31.227	3,838.4	24.20	100.30	78.3	236.6	0.0	53.2	22.50	3,023	38.3
43.00		0.3125	31.267	31.148	3,809.4	24.13	100.05	78.4	235.4	0.0	53.1	22.50	3,009	38.3
43.50		0.3125	31.189	31.069	3,780.6	24.06	99.80	78.5	234.2	0.0	52.9	22.50	2,994	38.3
44.00		0.3125	31.110	30.990	3,751.9	24.00	99.55	78.5	233.0	0.0	52.8	22.50	2,980	38.3
44.50		0.3125	31.032	30.911	3,723.3	23.93	99.30	78.6	231.8	0.0	52.7	22.50	2,966	38.3
45.00		0.3125	30.953	30.833	3,694.9	23.86	99.05	78.7	230.6	0.0	52.5	22.50	2,952	38.3
45.50		0.3125	30.875	30.754	3,666.6	23.79	98.80	78.8	229.4	0.0	52.4	22.50	2,937	38.3
46.00		0.3125	30.797	30.675	3,638.5	23.73	98.55	78.8	228.2	0.0	52.3	22.50	2,923	38.3
46.50		0.3125	30.718	30.596	3,610.5	23.66	98.30	78.9	227.1	0.0	52.1	22.50	2,909	38.3
47.00		0.3125	30.640	30.517	3,582.7	23.59	98.05	79.0	225.9	0.0	52.0	22.50	2,895	38.3
47.50		0.3125	30.562	30.438	3,555.0	23.53	97.80	79.1	224.7	0.0	51.9	22.50	2,881	38.3
48.00		0.3125	30.483	30.359	3,527.4	23.46	97.55	79.1	223.5	0.0	51.7	22.50	2,867	38.3
48.50		0.3125	30.405	30.281	3,500.0	23.39	97.30	79.2	222.4	0.0	51.6	22.50	2,853	38.3
49.00		0.3125	30.327	30.202	3,472.7	23.32	97.05	79.3	221.2	0.0	51.5	22.50	2,839	38.3
49.50		0.3125	30.248	30.123	3,445.6	23.26	96.79	79.3	220.1	0.0	51.3	22.50	2,825	38.3
50.00		0.3125	30.170	30.044	3,418.6	23.19	96.54	79.4	218.9	0.0	51.2	22.50	2,811	38.3
50.50		0.3125	30.092	29.965	3,391.8	23.12	96.29	79.5	217.7	0.0	51.0	22.50	2,797	38.3
51.00		0.3125	30.013	29.886	3,365.1	23.06	96.04	79.6	216.6	0.0	50.9	22.50	2,784	38.3
51.50		0.3125	29.935	29.808	3,338.5	22.99	95.79	79.6	215.5	0.0	50.8	22.50	2,770	38.3
52.00		0.3125	29.857	29.729	3,312.1	22.92	95.54	79.7	214.3	0.0	50.6	22.50	2,756	38.3
52.50		0.3125	29.778	29.650	3,285.8	22.85	95.29	79.8	213.2	0.0	50.5	22.50	2,743	38.3
53.00		0.3125	29.700	29.571	3,259.7	22.79	95.04	79.9	212.0	0.0	50.4	22.50	2,729	38.3
53.50		0.3125	29.622	29.492	3,233.7	22.72	94.79	79.9	210.9	0.0	50.2	22.50	2,715	38.3
54.00		0.3125	29.543	29.413	3,207.8	22.65	94.54	80.0	209.8	0.0	50.1	22.50	2,702	38.3
54.50		0.3125	29.465	29.335	3,182.1	22.58	94.29	80.1	208.6	0.0	50.0	22.50	2,688	38.3
55.00		0.3125	29.386	29.256	3,156.5	22.52	94.04	80.2	207.5	0.0	49.8	22.50	2,675	38.3
55.50		0.3125	29.308	29.177	3,131.1	22.45	93.79	80.2	206.4	0.0	49.7	22.50	2,661	38.3
56.00		0.3125	29.230	29.098	3,105.7	22.38	93.54	80.3	205.3	0.0	49.6	22.50	2,648	38.3
56.50		0.3125	29.151	29.019	3,080.6	22.32	93.28	80.4	204.1	0.0	49.4	22.50	2,634	38.3
57.00		0.3125	29.073	28.940	3,055.5	22.25	93.03	80.4	203.0	0.0	49.3	22.50	2,621	38.3
57.50		0.3125	28.995	28.862	3,030.6	22.18	92.78	80.5	201.9	0.0	49.2	22.50	2,607	38.3
58.00		0.3125	28.916	28.783	3,005.9	22.11	92.53	80.6	200.8	0.0	49.0	22.50	2,594	38.3
58.50		0.3125	28.838	28.704	2,981.2	22.05	92.28	80.7	199.7	0.0	48.9	22.50	2,581	38.3
59.00		0.3125	28.760	28.625	2,956.7	21.98	92.03	80.7	198.6	0.0	48.8	22.50	2,568	38.3
59.50		0.3125	28.681	28.546	2,932.4	21.91	91.78	80.8	197.5	0.0	48.6	22.50	2,554	38.3

Site Number: 302494

Code: ANSI/TIA-222-G

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Site Name: Hddm - Haddam, CT

Engineering Number: OAA713049_C3_01

9/26/2017 3:56:22 PM

Customer: AT&T MOBILITY

60.00	0.3125	28.603	28.467	2,908.1	21.85	91.53	80.9	196.4	0.0	48.5	22.50	2,541	38.3	
60.50	0.3125	28.525	28.388	2,884.0	21.78	91.28	81.0	195.3	0.0	48.4	22.50	2,528	38.3	
61.00	0.3125	28.446	28.310	2,860.1	21.71	91.03	81.0	194.2	0.0	48.2	22.50	2,515	38.3	
61.50	0.3125	28.368	28.231	2,836.2	21.64	90.78	81.1	193.1	0.0	48.1	22.50	2,502	38.3	
62.00	0.3125	28.290	28.152	2,812.5	21.58	90.53	81.2	192.1	0.0	48.0	22.50	2,489	38.3	
62.50	0.3125	28.211	28.073	2,789.0	21.51	90.28	81.3	191.0	0.0	47.8	22.50	2,476	38.3	
63.00	0.3125	28.133	27.994	2,765.6	21.44	90.03	81.3	189.9	0.0	47.7	22.50	2,463	38.3	
63.50	0.3125	28.055	27.915	2,742.3	21.38	89.77	81.4	188.8	0.0	47.6	22.50	2,450	38.3	
64.00	0.3125	27.976	27.837	2,719.1	21.31	89.52	81.5	187.8	0.0	47.4	22.50	2,437	38.3	
64.50	0.3125	27.898	27.758	2,696.0	21.24	89.27	81.5	186.7	0.0	47.3	22.50	2,424	38.3	
65.00	0.3125	27.819	27.679	2,673.1	21.17	89.02	81.6	185.6	0.0	47.2	22.50	2,411	38.3	
65.50	0.3125	27.741	27.600	2,650.4	21.11	88.77	81.7	184.6	0.0	47.0	22.50	2,399	38.3	
66.00	0.3125	27.663	27.521	2,627.7	21.04	88.52	81.8	183.5	0.0	46.9	22.50	2,386	38.3	
66.50	0.3125	27.584	27.442	2,605.2	20.97	88.27	81.8	182.5	0.0	46.8	22.50	2,373	38.3	
67.00	0.3125	27.506	27.364	2,582.8	20.91	88.02	81.9	181.4	0.0	46.6	22.50	2,360	38.3	
67.50	0.3125	27.428	27.285	2,560.5	20.84	87.77	81.9	180.3	0.0	46.5	22.50	2,348	38.3	
68.00	0.3125	27.349	27.206	2,538.4	20.77	87.52	81.9	179.3	0.0	46.4	22.50	2,335	38.3	
68.50	0.3125	27.271	27.127	2,516.4	20.70	87.27	81.9	178.3	0.0	46.2	22.50	2,323	38.3	
69.00	0.3125	27.193	27.048	2,494.5	20.64	87.02	81.9	177.2	0.0	46.1	22.50	2,310	38.3	
69.50	0.3125	27.114	26.969	2,472.8	20.57	86.77	81.9	176.2	0.0	46.0	22.50	2,298	38.3	
70.00	Bot - Section 3	0.3125	27.036	26.891	2,451.2	20.50	86.52	81.9	175.1	0.0	45.8	22.50	2,285	38.2
70.50		0.3125	26.958	26.812	2,429.7	20.44	86.26	81.9	174.1	0.0	83.0	22.50	2,353	38.3
71.00		0.3125	26.879	26.733	2,408.3	20.37	86.01	81.9	173.1	0.0	82.8	22.50	2,340	38.3
71.50		0.3125	26.801	26.654	2,387.0	20.30	85.76	81.9	172.1	0.0	82.5	22.50	2,327	38.3
72.00		0.3125	26.723	26.575	2,365.9	20.23	85.51	81.9	171.0	0.0	82.3	22.50	2,315	38.3
72.50		0.3125	26.644	26.496	2,344.9	20.17	85.26	81.9	170.0	0.0	82.0	22.50	2,302	38.3
73.00		0.3125	26.566	26.417	2,324.1	20.10	85.01	81.9	169.0	0.0	81.8	22.50	2,290	38.3
73.33	Reinf. Top Reinf	0.3125	26.514	26.365	2,310.4	20.05	84.85	81.9	168.3	0.0	53.9	22.50	2,282	25.2
73.50	Top - Section 2	0.2500	26.988	21.524	1,964.0	26.25	107.95	76.1	140.6	0.0	27.7	18.75	1,889	10.9
74.00		0.2500	26.909	21.461	1,946.8	26.16	107.64	76.2	139.8	0.0	36.6	18.75	1,879	32.0
74.50		0.2500	26.831	21.398	1,929.7	26.08	107.32	76.3	138.9	0.0	36.5	18.75	1,868	31.9
75.00		0.2500	26.752	21.335	1,912.7	25.99	107.01	76.4	138.1	0.0	36.4	18.75	1,858	31.9
75.50		0.2500	26.674	21.271	1,895.8	25.91	106.70	76.5	137.3	0.0	36.2	18.75	1,848	31.9
76.00		0.2500	26.596	21.208	1,879.0	25.83	106.38	76.5	136.5	0.0	36.1	18.75	1,838	31.9
76.50		0.2500	26.517	21.145	1,862.2	25.74	106.07	76.6	135.7	0.0	36.0	18.75	1,827	31.9
77.00		0.2500	26.439	21.082	1,845.6	25.66	105.76	76.7	134.9	0.0	35.9	18.75	1,817	31.9
77.50		0.2500	26.361	21.019	1,829.1	25.57	105.44	76.8	134.0	0.0	35.8	18.75	1,807	31.9
78.00		0.2500	26.282	20.956	1,812.7	25.49	105.13	76.9	133.2	0.0	35.7	18.75	1,797	31.9
78.50		0.2500	26.204	20.893	1,796.4	25.41	104.82	77.0	132.4	0.0	35.6	18.75	1,787	31.9
79.00		0.2500	26.126	20.830	1,780.2	25.32	104.50	77.1	131.6	0.0	35.5	18.75	1,777	31.9
79.50		0.2500	26.047	20.767	1,764.0	25.24	104.19	77.2	130.8	0.0	35.4	18.75	1,767	31.9
80.00		0.2500	25.969	20.704	1,748.0	25.15	103.88	77.3	130.0	0.0	35.3	18.75	1,757	31.9
80.50		0.2500	25.891	20.641	1,732.1	25.07	103.56	77.4	129.2	0.0	35.2	18.75	1,747	31.9
81.00		0.2500	25.812	20.578	1,716.3	24.99	103.25	77.5	128.4	0.0	35.1	18.75	1,737	31.9
81.50		0.2500	25.734	20.515	1,700.5	24.90	102.94	77.6	127.7	0.0	35.0	18.75	1,727	31.9
82.00		0.2500	25.656	20.452	1,684.9	24.82	102.62	77.6	126.9	0.0	34.8	18.75	1,717	31.9
82.50		0.2500	25.577	20.388	1,669.3	24.73	102.31	77.7	126.1	0.0	34.7	18.75	1,707	31.9
83.00		0.2500	25.499	20.325	1,653.9	24.65	102.00	77.8	125.3	0.0	34.6	18.75	1,697	31.9
83.50		0.2500	25.421	20.262	1,638.5	24.57	101.68	77.9	124.5	0.0	34.5	18.75	1,687	31.9
84.00		0.2500	25.342	20.199	1,623.3	24.48	101.37	78.0	123.7	0.0	34.4	18.75	1,678	31.9
84.50		0.2500	25.264	20.136	1,608.1	24.40	101.06	78.1	123.0	0.0	34.3	18.75	1,668	31.9
85.00		0.2500	25.185	20.073	1,593.1	24.31	100.74	78.2	122.2	0.0	34.2	18.75	1,658	31.9
85.50		0.2500	25.107	20.010	1,578.1	24.23	100.43	78.3	121.4	0.0	34.1	18.75	1,648	31.9
86.00		0.2500	25.029	19.947	1,563.2	24.15	100.12	78.4	120.7	0.0	34.0	18.75	1,639	31.9
86.50		0.2500	24.950	19.884	1,548.4	24.06	99.80	78.5	119.9	0.0	33.9	18.75	1,629	31.9
87.00		0.2500	24.872	19.821	1,533.8	23.98	99.49	78.6	119.1	0.0	33.8	18.75	1,620	31.9
87.50		0.2500	24.794	19.758	1,519.2	23.89	99.17	78.7	118.4	0.0	33.7	18.75	1,610	31.9
88.00		0.2500	24.715	19.695	1,504.7	23.81	98.86	78.7	117.6	0.0	33.6	18.75	1,600	31.9
88.50		0.2500	24.637	19.632	1,490.3	23.73	98.55	78.8	116.9	0.0	33.5	18.75	1,591	31.9
89.00		0.2500	24.559	19.568	1,475.9	23.64	98.23	78.9	116.1	0.0	33.3	18.75	1,581	31.9
89.50		0.2500	24.480	19.505	1,461.7	23.56	97.92	79.0	115.3	0.0	33.2	18.75	1,572	31.9
90.00		0.2500	24.402	19.442	1,447.6	23.47	97.61	79.1	114.6	0.0	33.1	18.75	1,563	31.9
90.50		0.2500	24.324	19.379	1,433.5	23.39	97.29	79.2	113.9	0.0	33.0	18.75	1,553	31.9
91.00		0.2500	24.245	19.316	1,419.6	23.31	96.98	79.3	113.1	0.0	32.9	18.75	1,544	31.9

Site Number: 302494

Code: ANSI/TIA-222-G

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Site Name: Hddm - Haddam, CT

Engineering Number: OAA713049_C3_01

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Customer: AT&T MOBILITY

91.50	0.2500	24.167	19.253	1,405.7	23.22	96.67	79.4	112.4	0.0	32.8	18.75	1,534	31.9	
92.00	0.2500	24.089	19.190	1,392.0	23.14	96.35	79.5	111.6	0.0	32.7	18.75	1,525	31.9	
92.50	0.2500	24.010	19.127	1,378.3	23.05	96.04	79.6	110.9	0.0	32.6	18.75	1,516	31.9	
93.00	0.2500	23.932	19.064	1,364.7	22.97	95.73	79.7	110.2	0.0	32.5	18.75	1,507	31.9	
93.50	0.2500	23.854	19.001	1,351.2	22.89	95.41	79.8	109.4	0.0	32.4	18.75	1,497	31.9	
94.00	0.2500	23.775	18.938	1,337.8	22.80	95.10	79.8	108.7	0.0	32.3	18.75	1,488	31.9	
94.50	0.2500	23.697	18.875	1,324.4	22.72	94.79	79.9	108.0	0.0	32.2	18.75	1,479	31.9	
95.00	0.2500	23.618	18.812	1,311.2	22.63	94.47	80.0	107.2	0.0	32.1	18.75	1,470	31.9	
95.50	0.2500	23.540	18.749	1,298.1	22.55	94.16	80.1	106.5	0.0	32.0	18.75	1,461	31.9	
96.00	0.2500	23.462	18.685	1,285.0	22.47	93.85	80.2	105.8	0.0	31.8	18.75	1,452	31.9	
96.50	0.2500	23.383	18.622	1,272.0	22.38	93.53	80.3	105.1	0.0	31.7	18.75	1,442	31.9	
97.00	0.2500	23.305	18.559	1,259.2	22.30	93.22	80.4	104.4	0.0	31.6	18.75	1,433	31.9	
97.50	0.2500	23.227	18.496	1,246.4	22.21	92.91	80.5	103.7	0.0	31.5	18.75	1,424	31.9	
98.00	0.2500	23.148	18.433	1,233.7	22.13	92.59	80.6	103.0	0.0	31.4	18.75	1,415	31.9	
98.50	0.2500	23.070	18.370	1,221.0	22.05	92.28	80.7	102.2	0.0	31.3	18.75	1,407	31.9	
99.00	0.2500	22.992	18.307	1,208.5	21.96	91.97	80.8	101.5	0.0	31.2	18.75	1,398	31.9	
99.50	0.2500	22.913	18.244	1,196.1	21.88	91.65	80.9	100.8	0.0	31.1	18.75	1,389	31.9	
100.0	0.2500	22.835	18.181	1,183.7	21.79	91.34	80.9	100.1	0.0	31.0	18.75	1,380	31.9	
100.5	0.2500	22.757	18.118	1,171.4	21.71	91.03	81.0	99.4	0.0	30.9	18.75	1,371	31.9	
101.0	0.2500	22.678	18.055	1,159.2	21.63	90.71	81.1	98.7	0.0	30.8	18.75	1,362	31.9	
101.5	0.2500	22.600	17.992	1,147.1	21.54	90.40	81.2	98.1	0.0	30.7	18.75	1,353	31.9	
102.0	0.2500	22.522	17.929	1,135.1	21.46	90.09	81.3	97.4	0.0	30.6	18.75	1,345	31.9	
102.5	0.2500	22.443	17.866	1,123.2	21.38	89.77	81.4	96.7	0.0	30.4	18.75	1,336	31.9	
103.0	0.2500	22.365	17.802	1,111.3	21.29	89.46	81.5	96.0	0.0	30.3	18.75	1,327	31.9	
103.5	0.2500	22.287	17.739	1,099.5	21.21	89.15	81.6	95.3	0.0	30.2	18.75	1,319	31.9	
104.0	0.2500	22.208	17.676	1,087.9	21.12	88.83	81.7	94.6	0.0	30.1	18.75	1,310	31.9	
104.5	0.2500	22.130	17.613	1,076.3	21.04	88.52	81.8	94.0	0.0	30.0	18.75	1,301	31.9	
105.0	0.2500	22.051	17.550	1,064.7	20.96	88.21	81.9	93.3	0.0	29.9	18.75	1,293	31.9	
105.5	0.2500	21.973	17.487	1,053.3	20.87	87.89	81.9	92.6	0.0	29.8	18.75	1,284	31.9	
106.0	0.2500	21.895	17.424	1,041.9	20.79	87.58	81.9	91.9	0.0	29.7	18.75	1,276	31.9	
106.5	0.2500	21.816	17.361	1,030.7	20.70	87.27	81.9	91.3	0.0	29.6	18.75	1,267	31.9	
107.0	0.2500	21.738	17.298	1,019.5	20.62	86.95	81.9	90.6	0.0	29.5	18.75	1,259	31.9	
107.5	0.2500	21.660	17.235	1,008.4	20.54	86.64	81.9	89.9	0.0	29.4	18.75	1,250	31.9	
108.0	0.2500	21.581	17.172	997.3	20.45	86.33	81.9	89.3	0.0	29.3	18.75	1,242	31.9	
108.5	0.2500	21.503	17.109	986.4	20.37	86.01	81.9	88.6	0.0	29.2	18.75	1,234	31.9	
109.0	0.2500	21.425	17.046	975.5	20.28	85.70	81.9	88.0	0.0	29.1	18.75	1,225	31.9	
109.5	0.2500	21.346	16.983	964.7	20.20	85.39	81.9	87.3	0.0	28.9	18.75	1,217	31.9	
110.0	Top - Section 3	0.2500	21.268	16.919	954.0	20.12	85.07	81.9	86.7	0.0	28.8	18.75	1,209	31.9
110.0	Bot - Section 4	0.1875	21.268	12.727	721.9	27.71	113.43	74.5	65.6	0.0	15.00	961.7		
110.5		0.1875	21.190	12.680	713.9	27.60	113.01	74.6	65.1	0.0	21.6	15.00	955.1	25.5
111.0		0.1875	21.111	12.633	705.9	27.49	112.59	74.7	64.6	0.0	21.5	15.00	948.5	25.5
111.5		0.1875	21.033	12.585	698.0	27.38	112.18	74.9	64.1	0.0	21.5	15.00	942.0	25.5
112.0		0.1875	20.955	12.538	690.2	27.27	111.76	75.0	63.6	0.0	21.4	15.00	935.4	25.5
112.5		0.1875	20.876	12.491	682.4	27.15	111.34	75.1	63.1	0.0	21.3	15.00	928.9	25.5
113.0		0.1875	20.798	12.444	674.7	27.04	110.92	75.2	62.7	0.0	21.2	15.00	922.4	25.5
113.5		0.1875	20.720	12.396	667.0	26.93	110.50	75.3	62.2	0.0	21.1	15.00	916.0	25.5
114.0		0.1875	20.641	12.349	659.4	26.82	110.09	75.5	61.7	0.0	21.1	15.00	909.5	25.5
114.5		0.1875	20.563	12.302	651.9	26.71	109.67	75.6	61.2	0.0	21.0	15.00	903.1	25.5
115.0		0.1875	20.484	12.254	644.4	26.59	109.25	75.7	60.8	0.0	20.9	15.00	896.7	25.5
115.5		0.1875	20.406	12.207	636.9	26.48	108.83	75.8	60.3	0.0	20.8	15.00	890.3	25.5
116.0		0.1875	20.328	12.160	629.6	26.37	108.41	76.0	59.8	0.0	20.7	15.00	884.0	25.5
116.5	Reinf. Top	0.1875	20.249	12.112	622.2	26.26	108.00	76.1	59.4	0.0	20.6	15.00	877.7	25.5
117.0		0.1875	20.171	12.065	615.0	26.15	107.58	76.2	58.9	0.0	20.6			
117.5		0.1875	20.093	12.018	607.8	26.03	107.16	76.3	58.4	0.0	20.5			
118.0		0.1875	20.014	11.970	600.6	25.92	106.74	76.4	58.0	0.0	20.4			
118.5		0.1875	19.936	11.923	593.5	25.81	106.33	76.6	57.5	0.0	20.3			
119.0		0.1875	19.858	11.876	586.5	25.70	105.91	76.7	57.1	0.0	20.2			
119.5		0.1875	19.779	11.829	579.5	25.59	105.49	76.8	56.6	0.0	20.2			
120.0		0.1875	19.701	11.781	572.6	25.47	105.07	76.9	56.1	0.0	20.1			
120.5		0.1875	19.623	11.734	565.7	25.36	104.65	77.1	55.7	0.0	20.0			
121.0		0.1875	19.544	11.687	558.9	25.25	104.24	77.2	55.2	0.0	19.9			
121.5		0.1875	19.466	11.639	552.2	25.14	103.82	77.3	54.8	0.0	19.8			
122.0		0.1875	19.388	11.592	545.4	25.03	103.40	77.4	54.4	0.0	19.8			
122.5		0.1875	19.309	11.545	538.8	24.91	102.98	77.5	53.9	0.0	19.7			

Site Number: 302494

Code: ANSI/TIA-222-G

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Site Name: Hddm - Haddam, CT

Engineering Number: OAA713049_C3_01

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123.0	0.1875	19.231	11.497	532.2	24.80	102.56	77.7	53.5	0.0	19.6
123.5	0.1875	19.153	11.450	525.7	24.69	102.15	77.8	53.0	0.0	19.5
124.0	0.1875	19.074	11.403	519.2	24.58	101.73	77.9	52.6	0.0	19.4
124.5	0.1875	18.996	11.356	512.7	24.47	101.31	78.0	52.1	0.0	19.4
125.0	0.1875	18.917	11.308	506.4	24.35	100.89	78.2	51.7	0.0	19.3
125.5	0.1875	18.839	11.261	500.0	24.24	100.48	78.3	51.3	0.0	19.2
126.0	0.1875	18.761	11.214	493.8	24.13	100.06	78.4	50.8	0.0	19.1
126.5	0.1875	18.682	11.166	487.5	24.02	99.64	78.5	50.4	0.0	19.0
127.0	0.1875	18.604	11.119	481.4	23.91	99.22	78.6	50.0	0.0	19.0
127.5	0.1875	18.526	11.072	475.2	23.79	98.80	78.8	49.6	0.0	18.9
128.0	0.1875	18.447	11.024	469.2	23.68	98.39	78.9	49.1	0.0	18.8
128.5	0.1875	18.369	10.977	463.2	23.57	97.97	79.0	48.7	0.0	18.7
129.0	0.1875	18.291	10.930	457.2	23.46	97.55	79.1	48.3	0.0	18.6
129.5	0.1875	18.212	10.882	451.3	23.35	97.13	79.3	47.9	0.0	18.6
130.0	0.1875	18.134	10.835	445.4	23.24	96.71	79.4	47.5	0.0	18.5
130.5	0.1875	18.056	10.788	439.6	23.12	96.30	79.5	47.0	0.0	18.4
131.0	0.1875	17.977	10.741	433.9	23.01	95.88	79.6	46.6	0.0	18.3
131.5	0.1875	17.899	10.693	428.2	22.90	95.46	79.7	46.2	0.0	18.2
132.0	0.1875	17.821	10.646	422.5	22.79	95.04	79.9	45.8	0.0	18.2
132.5	0.1875	17.742	10.599	416.9	22.68	94.63	80.0	45.4	0.0	18.1
133.0	0.1875	17.664	10.551	411.3	22.56	94.21	80.1	45.0	0.0	18.0
133.5	0.1875	17.586	10.504	405.8	22.45	93.79	80.2	44.6	0.0	17.9
134.0	0.1875	17.507	10.457	400.4	22.34	93.37	80.4	44.2	0.0	17.8
134.5	0.1875	17.429	10.409	395.0	22.23	92.95	80.5	43.8	0.0	17.8
135.0	0.1875	17.350	10.362	389.6	22.12	92.54	80.6	43.4	0.0	17.7
135.5	0.1875	17.272	10.315	384.3	22.00	92.12	80.7	43.0	0.0	17.6
136.0	0.1875	17.194	10.268	379.0	21.89	91.70	80.8	42.6	0.0	17.5
136.5	0.1875	17.115	10.220	373.8	21.78	91.28	81.0	42.2	0.0	17.4
137.0	0.1875	17.037	10.173	368.6	21.67	90.86	81.1	41.8	0.0	17.3
137.5	0.1875	16.959	10.126	363.5	21.56	90.45	81.2	41.4	0.0	17.3
138.0	0.1875	16.880	10.078	358.5	21.44	90.03	81.3	41.0	0.0	17.2
138.5	0.1875	16.802	10.031	353.4	21.33	89.61	81.4	40.6	0.0	17.1
139.0	0.1875	16.724	9.984	348.5	21.22	89.19	81.6	40.3	0.0	17.0
139.5	0.1875	16.645	9.936	343.5	21.11	88.78	81.7	39.9	0.0	16.9
140.0	0.1875	16.567	9.889	338.6	21.00	88.36	81.8	39.5	0.0	16.9
140.5	0.1875	16.489	9.842	333.8	20.88	87.94	81.9	39.1	0.0	16.8
141.0	0.1875	16.410	9.795	329.0	20.77	87.52	81.9	38.7	0.0	16.7
141.5	0.1875	16.332	9.747	324.3	20.66	87.10	81.9	38.4	0.0	16.6
142.0	0.1875	16.254	9.700	319.6	20.55	86.69	81.9	38.0	0.0	16.5
142.5	0.1875	16.175	9.653	314.9	20.44	86.27	81.9	37.6	0.0	16.5
143.0	0.1875	16.097	9.605	310.3	20.32	85.85	81.9	37.2	0.0	16.4
143.5	0.1875	16.019	9.558	305.8	20.21	85.43	81.9	36.9	0.0	16.3
144.0	0.1875	15.940	9.511	301.2	20.10	85.01	81.9	36.5	0.0	16.2
144.5	0.1875	15.862	9.463	296.8	19.99	84.60	81.9	36.1	0.0	16.1
145.0	0.1875	15.783	9.416	292.3	19.88	84.18	81.9	35.8	0.0	16.1
145.5	0.1875	15.705	9.369	288.0	19.76	83.76	81.9	35.4	0.0	16.0
146.0	0.1875	15.627	9.321	283.6	19.65	83.34	81.9	35.1	0.0	15.9
146.5	0.1875	15.548	9.274	279.3	19.54	82.93	81.9	34.7	0.0	15.8
147.0	0.1875	15.470	9.227	275.1	19.43	82.51	81.9	34.3	0.0	15.7
147.5	0.1875	15.392	9.180	270.9	19.32	82.09	81.9	34.0	0.0	15.7
148.0	0.1875	15.313	9.132	266.7	19.20	81.67	81.9	33.6	0.0	15.6
148.5	0.1875	15.235	9.085	262.6	19.09	81.25	81.9	33.3	0.0	15.5
149.0	0.1875	15.157	9.038	258.5	18.98	80.84	81.9	32.9	0.0	15.4
149.5	0.1875	15.078	8.990	254.4	18.87	80.42	81.9	32.6	0.0	15.3
150.0	0.1875	15.000	8.943	250.5	18.76	80.00	81.9	32.3	0.0	15.3

13,372.1

8,752.2

Site Number: 302494
 Site Name: Hddm - Haddam, CT
 Customer: AT&T MOBILITY

Code: ANSI/TIA-222-G
 Engineering Number: OAA713049_C3_01

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 9/26/2017 3:56:22 PM

Load Case: 1.2D + 1.6W 101 mph with No Ice 41 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		24.6	0.0					0.0	0.0	24.6	0.0	0.0	0.0
0.50		49.2	91.1					0.0	53.6	49.2	144.7	0.0	0.0
1.00		49.1	90.9					0.0	53.6	49.1	144.5	0.0	0.0
1.50		49.0	90.7					0.0	53.6	49.0	144.3	0.0	0.0
2.00		48.9	90.6					0.0	53.6	48.9	144.1	0.0	0.0
2.50		48.8	90.4					0.0	53.6	48.8	143.9	0.0	0.0
3.00		48.7	90.2					0.0	53.6	48.7	143.7	0.0	0.0
3.50		48.6	90.0					0.0	53.6	48.6	143.5	0.0	0.0
4.00		48.5	89.8					0.0	53.6	48.5	143.3	0.0	0.0
4.50		48.4	89.6					0.0	53.6	48.4	143.1	0.0	0.0
5.00		48.3	89.4					0.0	53.6	48.3	142.9	0.0	0.0
5.50		48.1	89.2					0.0	53.6	48.1	142.8	0.0	0.0
6.00		48.0	89.0					0.0	53.6	48.0	142.6	0.0	0.0
6.50		47.9	88.8					0.0	53.6	47.9	142.4	0.0	0.0
7.00		47.8	88.6					0.0	53.6	47.8	142.2	0.0	0.0
7.50		47.7	88.4					0.0	53.6	47.7	142.0	0.0	0.0
8.00		47.6	88.2					0.0	53.6	47.6	141.8	0.0	0.0
8.50		47.5	88.0					0.0	79.5	47.5	167.5	0.0	0.0
9.00		47.4	87.8					0.0	79.5	47.4	167.3	0.0	0.0
9.50		47.3	87.7					0.0	79.5	47.3	167.1	0.0	0.0
10.00		47.2	87.5					0.0	79.5	47.2	166.9	0.0	0.0
10.50		47.1	87.3					0.0	79.5	47.1	166.8	0.0	0.0
11.00		47.0	87.1					0.0	79.5	47.0	166.6	0.0	0.0
11.50		46.9	86.9					0.0	79.5	46.9	166.4	0.0	0.0
12.00		46.8	86.7					0.0	79.5	46.8	166.2	0.0	0.0
12.50		46.7	86.5					0.0	79.5	46.7	166.0	0.0	0.0
13.00		46.6	86.3					0.0	79.5	46.6	165.8	0.0	0.0
13.50		46.5	86.1					0.0	79.5	46.5	165.6	0.0	0.0
14.00		46.4	85.9					0.0	79.5	46.4	165.4	0.0	0.0
14.50		46.3	85.7					0.0	79.5	46.3	165.2	0.0	0.0
15.00		46.2	85.5					0.0	79.5	46.2	165.0	0.0	0.0
15.50		46.1	85.3					0.0	79.5	46.1	164.8	0.0	0.0
16.00		46.0	85.1					0.0	79.5	46.0	164.6	0.0	0.0
16.50		45.9	85.0					0.0	79.5	45.9	164.4	0.0	0.0
17.00		45.8	84.8					0.0	79.5	45.8	164.2	0.0	0.0
17.50		45.7	84.6					0.0	79.5	45.7	164.1	0.0	0.0
18.00		45.6	84.4					0.0	79.5	45.6	163.9	0.0	0.0
18.50		45.5	84.2					0.0	79.5	45.5	163.7	0.0	0.0
19.00		45.4	84.0					0.0	79.5	45.4	163.5	0.0	0.0
19.50		45.3	83.8					0.0	79.5	45.3	163.3	0.0	0.0
20.00		45.2	83.6					0.0	79.5	45.2	163.1	0.0	0.0
20.50		45.0	83.4					0.0	79.5	45.0	162.9	0.0	0.0
21.00		44.9	83.2					0.0	79.5	44.9	162.7	0.0	0.0
21.50		44.9	83.0					0.0	79.5	44.9	162.5	0.0	0.0
22.00		44.8	82.8					0.0	79.5	44.8	162.3	0.0	0.0
22.50		44.7	82.6					0.0	79.5	44.7	162.1	0.0	0.0
23.00		44.7	82.4					0.0	79.5	44.7	161.9	0.0	0.0
23.50		44.6	82.2					0.0	79.5	44.6	161.7	0.0	0.0

Site Number: 302494

Code: ANSI/TIA-222-G

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Site Name: Hddm - Haddam, CT

Engineering Number: OAA713049_C3_01

9/26/2017 3:56:38 PM

Customer: AT&T MOBILITY

Load Case: 1.2D + 1.6W			101 mph with No Ice				41 Iterations			
Gust Response Factor :1.10									Wind Importance Factor 1.00	
Dead Load Factor :1.20										
Wind Load Factor :1.60										
24.00	44.5	82.1	0.0	79.5	44.5	161.5	0.0	0.0		
24.50	44.4	81.9	0.0	79.5	44.4	161.3	0.0	0.0		
25.00	44.4	81.7	0.0	79.5	44.4	161.2	0.0	0.0		
25.50	44.3	81.5	0.0	79.5	44.3	161.0	0.0	0.0		
26.00	44.2	81.3	0.0	79.5	44.2	160.8	0.0	0.0		
26.50	44.2	81.1	0.0	79.5	44.2	160.6	0.0	0.0		
27.00	44.1	80.9	0.0	79.5	44.1	160.4	0.0	0.0		
27.50	44.0	80.7	0.0	79.5	44.0	160.2	0.0	0.0		
28.00	43.9	80.5	0.0	79.5	43.9	160.0	0.0	0.0		
28.50	43.9	80.3	0.0	79.5	43.9	159.8	0.0	0.0		
29.00	43.8	80.1	0.0	79.5	43.8	159.6	0.0	0.0		
29.50	43.7	79.9	0.0	79.5	43.7	159.4	0.0	0.0		
30.00	43.7	79.7	0.0	79.5	43.7	159.2	0.0	0.0		
30.50	43.8	79.5	0.0	79.5	43.8	159.0	0.0	0.0		
31.00	43.9	79.3	0.0	79.5	43.9	158.8	0.0	0.0		
31.50	Bot - Section 2	44.5	79.1	0.0	79.5	44.5	158.6	0.0	0.0	
32.00		45.1	146.2	0.0	79.5	45.1	225.7	0.0	0.0	
32.50		45.2	145.8	0.0	79.5	45.2	225.3	0.0	0.0	
33.00		45.3	145.5	0.0	79.5	45.3	225.0	0.0	0.0	
33.50		45.4	145.1	0.0	79.5	45.4	224.6	0.0	0.0	
34.00		45.5	144.8	0.0	79.5	45.5	224.2	0.0	0.0	
34.50		45.7	144.4	0.0	79.5	45.7	223.9	0.0	0.0	
35.00		45.8	144.1	0.0	79.5	45.8	223.5	0.0	0.0	
35.50		30.6	143.7	0.0	79.5	30.6	223.2	0.0	0.0	
35.67	Top - Section 1	22.9	47.8	0.0	26.5	22.9	74.3	0.0	0.0	
36.00		38.1	43.9	0.0	53.0	38.1	96.9	0.0	0.0	
36.50		30.7	65.8	0.0	79.5	30.7	145.3	0.0	0.0	
36.67	Reinf. Top Reinf	22.9	22.3	0.0	27.0	22.9	49.3	0.0	0.0	
37.00		38.1	43.3	0.0	47.4	38.1	90.7	0.0	0.0	
37.50		46.0	65.4	0.0	71.8	46.0	137.3	0.0	0.0	
38.00		46.1	65.3	0.0	71.8	46.1	137.1	0.0	0.0	
38.50		46.2	65.1	0.0	71.8	46.2	137.0	0.0	0.0	
39.00		46.3	65.0	0.0	71.8	46.3	136.8	0.0	0.0	
39.50		46.4	64.8	0.0	71.8	46.4	136.6	0.0	0.0	
40.00		46.5	64.6	0.0	71.8	46.5	136.5	0.0	0.0	
40.50		46.6	64.5	0.0	71.8	46.6	136.3	0.0	0.0	
41.00		46.7	64.3	0.0	71.8	46.7	136.2	0.0	0.0	
41.50		46.7	64.2	0.0	71.8	46.7	136.0	0.0	0.0	
42.00		46.8	64.0	0.0	71.8	46.8	135.8	0.0	0.0	
42.50		46.9	63.8	0.0	71.8	46.9	135.7	0.0	0.0	
43.00		47.0	63.7	0.0	71.8	47.0	135.5	0.0	0.0	
43.50		47.0	63.5	0.0	71.8	47.0	135.3	0.0	0.0	
44.00		47.1	63.4	0.0	71.8	47.1	135.2	0.0	0.0	
44.50		47.2	63.2	0.0	71.8	47.2	135.0	0.0	0.0	
45.00		47.3	63.0	0.0	71.8	47.3	134.9	0.0	0.0	
45.50		47.3	62.9	0.0	71.8	47.3	134.7	0.0	0.0	
46.00		47.4	62.7	0.0	71.8	47.4	134.5	0.0	0.0	
46.50		47.5	62.5	0.0	71.8	47.5	134.4	0.0	0.0	
47.00		47.5	62.4	0.0	71.8	47.5	134.2	0.0	0.0	
47.50		47.6	62.2	0.0	71.8	47.6	134.1	0.0	0.0	
48.00		47.6	62.1	0.0	71.8	47.6	133.9	0.0	0.0	
48.50		47.7	61.9	0.0	71.8	47.7	133.7	0.0	0.0	
49.00		47.8	61.7	0.0	71.8	47.8	133.6	0.0	0.0	
49.50		47.8	61.6	0.0	71.8	47.8	133.4	0.0	0.0	
50.00	Appertunance(s)	47.9	61.4	103.4	0.0	0.0	124.8	0.0	0.0	
50.50		47.9	61.3		0.0	71.7	47.9	133.0	0.0	0.0
51.00		48.0	61.1		0.0	71.7	48.0	132.8	0.0	0.0

Site Number: 302494

Code: ANSI/TIA-222-G

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Site Name: Hddm - Haddam, CT

Engineering Number: OAA713049_C3_01

9/26/2017 3:56:38 PM

Customer: AT&T MOBILITY

Load Case: 1.2D + 1.6W		101 mph with No Ice				41 Iterations			
Gust Response Factor :1.10						Wind Importance Factor 1.00			
Dead Load Factor :1.20									
Wind Load Factor :1.60									
51.50		48.0	60.9	0.0	71.7	48.0	132.7	0.0	0.0
52.00		48.1	60.8	0.0	71.7	48.1	132.5	0.0	0.0
52.50		48.1	60.6	0.0	71.7	48.1	132.4	0.0	0.0
53.00		48.2	60.5	0.0	71.7	48.2	132.2	0.0	0.0
53.50		48.2	60.3	0.0	71.7	48.2	132.0	0.0	0.0
54.00		48.2	60.1	0.0	71.7	48.2	131.9	0.0	0.0
54.50		48.3	60.0	0.0	71.7	48.3	131.7	0.0	0.0
55.00		48.3	59.8	0.0	71.7	48.3	131.6	0.0	0.0
55.50		48.4	59.6	0.0	71.7	48.4	131.4	0.0	0.0
56.00		48.4	59.5	0.0	71.7	48.4	131.2	0.0	0.0
56.50		48.4	59.3	0.0	71.7	48.4	131.1	0.0	0.0
57.00		48.5	59.2	0.0	71.7	48.5	130.9	0.0	0.0
57.50		48.5	59.0	0.0	71.7	48.5	130.8	0.0	0.0
58.00		48.5	58.8	0.0	71.7	48.5	130.6	0.0	0.0
58.50		48.6	58.7	0.0	71.7	48.6	130.4	0.0	0.0
59.00		48.6	58.5	0.0	71.7	48.6	130.3	0.0	0.0
59.50		48.6	58.4	0.0	71.7	48.6	130.1	0.0	0.0
60.00		48.7	58.2	0.0	71.7	48.7	129.9	0.0	0.0
60.50		48.7	58.0	0.0	71.7	48.7	129.8	0.0	0.0
61.00		48.7	57.9	0.0	71.7	48.7	129.6	0.0	0.0
61.50		48.7	57.7	0.0	71.7	48.7	129.5	0.0	0.0
62.00		48.8	57.6	0.0	71.7	48.8	129.3	0.0	0.0
62.50		48.8	57.4	0.0	71.7	48.8	129.1	0.0	0.0
63.00		48.8	57.2	0.0	71.7	48.8	129.0	0.0	0.0
63.50		48.8	57.1	0.0	71.7	48.8	128.8	0.0	0.0
64.00		48.8	56.9	0.0	71.7	48.8	128.7	0.0	0.0
64.50		48.9	56.8	0.0	71.7	48.9	128.5	0.0	0.0
65.00		48.9	56.6	0.0	71.7	48.9	128.3	0.0	0.0
65.50		48.9	56.4	0.0	71.7	48.9	128.2	0.0	0.0
66.00		48.9	56.3	0.0	71.7	48.9	128.0	0.0	0.0
66.50		48.9	56.1	0.0	71.7	48.9	127.9	0.0	0.0
67.00		48.9	55.9	0.0	71.7	48.9	127.7	0.0	0.0
67.50		49.0	55.8	0.0	71.7	49.0	127.5	0.0	0.0
68.00		49.0	55.6	0.0	71.7	49.0	127.4	0.0	0.0
68.50		49.0	55.5	0.0	71.7	49.0	127.2	0.0	0.0
69.00		49.0	55.3	0.0	71.7	49.0	127.1	0.0	0.0
69.50		49.0	55.1	0.0	71.7	49.0	126.9	0.0	0.0
70.00	Bot - Section 3	49.5	55.0	0.0	71.7	49.5	126.7	0.0	0.0
70.50		49.9	99.6	0.0	71.8	49.9	171.4	0.0	0.0
71.00		49.9	99.3	0.0	71.7	49.9	171.1	0.0	0.0
71.50		49.9	99.0	0.0	71.7	49.9	170.8	0.0	0.0
72.00		49.9	98.7	0.0	71.7	49.9	170.5	0.0	0.0
72.50		50.0	98.4	0.0	71.7	50.0	170.2	0.0	0.0
73.00		41.5	98.2	0.0	71.7	41.5	169.9	0.0	0.0
73.33	Reinf. Top Reinf	25.0	64.6	0.0	47.4	25.0	112.0	0.0	0.0
73.50	Top - Section 2	33.3	33.2	0.0	21.8	33.3	55.0	0.0	0.0
74.00		49.6	43.9	0.0	64.2	49.6	108.1	0.0	0.0
74.50		49.6	43.8	0.0	64.2	49.6	107.9	0.0	0.0
75.00		49.6	43.6	0.0	64.2	49.6	107.8	0.0	0.0
75.50		49.6	43.5	0.0	64.2	49.6	107.7	0.0	0.0
76.00		49.6	43.4	0.0	64.2	49.6	107.6	0.0	0.0
76.50		49.6	43.2	0.0	64.2	49.6	107.4	0.0	0.0
77.00		49.6	43.1	0.0	64.2	49.6	107.3	0.0	0.0
77.50		49.6	43.0	0.0	64.2	49.6	107.2	0.0	0.0
78.00		49.6	42.8	0.0	64.2	49.6	107.0	0.0	0.0
78.50		49.6	42.7	0.0	64.2	49.6	106.9	0.0	0.0
79.00		49.6	42.6	0.0	64.2	49.6	106.8	0.0	0.0

Site Number: 302494

Code: ANSI/TIA-222-G

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Site Name: Hddm - Haddam, CT

Engineering Number: OAA713049_C3_01

9/26/2017 3:56:38 PM

Customer: AT&T MOBILITY

Load Case: 1.2D + 1.6W			101 mph with No Ice				41 Iterations			
Gust Response Factor :1.10									Wind Importance Factor 1.00	
Dead Load Factor :1.20										
Wind Load Factor :1.60										
79.50	49.6	42.5	0.0	64.2	49.6	106.7	0.0	0.0		
80.00	49.6	42.3	0.0	64.2	49.6	106.5	0.0	0.0		
80.50	49.6	42.2	0.0	64.2	49.6	106.4	0.0	0.0		
81.00	49.6	42.1	0.0	64.2	49.6	106.3	0.0	0.0		
81.50	49.6	41.9	0.0	64.2	49.6	106.1	0.0	0.0		
82.00	49.6	41.8	0.0	64.2	49.6	106.0	0.0	0.0		
82.50	49.6	41.7	0.0	64.2	49.6	105.9	0.0	0.0		
83.00	49.6	41.6	0.0	64.2	49.6	105.7	0.0	0.0		
83.50	49.5	41.4	0.0	64.2	49.5	105.6	0.0	0.0		
84.00	49.5	41.3	0.0	64.2	49.5	105.5	0.0	0.0		
84.50	49.5	41.2	0.0	64.2	49.5	105.4	0.0	0.0		
85.00	49.5	41.0	0.0	64.2	49.5	105.2	0.0	0.0		
85.50	49.5	40.9	0.0	64.2	49.5	105.1	0.0	0.0		
86.00	49.5	40.8	0.0	64.2	49.5	105.0	0.0	0.0		
86.50	49.5	40.7	0.0	64.2	49.5	104.8	0.0	0.0		
87.00	49.4	40.5	0.0	64.2	49.4	104.7	0.0	0.0		
87.50	49.4	40.4	0.0	64.2	49.4	104.6	0.0	0.0		
88.00	49.4	40.3	0.0	64.2	49.4	104.5	0.0	0.0		
88.50	49.4	40.1	0.0	64.2	49.4	104.3	0.0	0.0		
89.00	49.4	40.0	0.0	64.2	49.4	104.2	0.0	0.0		
89.50	49.3	39.9	0.0	64.2	49.3	104.1	0.0	0.0		
90.00	49.3	39.8	0.0	64.2	49.3	103.9	0.0	0.0		
90.50	49.3	39.6	0.0	64.2	49.3	103.8	0.0	0.0		
91.00	49.3	39.5	0.0	64.2	49.3	103.7	0.0	0.0		
91.50	49.3	39.4	0.0	64.2	49.3	103.6	0.0	0.0		
92.00	49.2	39.2	0.0	64.2	49.2	103.4	0.0	0.0		
92.50	49.2	39.1	0.0	64.2	49.2	103.3	0.0	0.0		
93.00	49.2	39.0	0.0	64.2	49.2	103.2	0.0	0.0		
93.50	49.2	38.9	0.0	64.2	49.2	103.0	0.0	0.0		
94.00	49.1	38.7	0.0	64.2	49.1	102.9	0.0	0.0		
94.50	49.1	38.6	0.0	64.2	49.1	102.8	0.0	0.0		
95.00	49.1	38.5	0.0	64.2	49.1	102.7	0.0	0.0		
95.50	49.1	38.3	0.0	64.2	49.1	102.5	0.0	0.0		
96.00	49.0	38.2	0.0	64.2	49.0	102.4	0.0	0.0		
96.50	49.0	38.1	0.0	64.2	49.0	102.3	0.0	0.0		
97.00	49.0	38.0	0.0	64.2	49.0	102.1	0.0	0.0		
97.50	48.9	37.8	0.0	64.2	48.9	102.0	0.0	0.0		
98.00	48.9	37.7	0.0	64.2	48.9	101.9	0.0	0.0		
98.50	48.9	37.6	0.0	64.2	48.9	101.8	0.0	0.0		
99.00	48.9	37.4	0.0	64.2	48.9	101.6	0.0	0.0		
99.50	48.8	37.3	0.0	64.2	48.8	101.5	0.0	0.0		
100.00	48.8	37.2	0.0	64.2	48.8	101.4	0.0	0.0		
100.50	48.8	37.1	0.0	64.2	48.8	101.2	0.0	0.0		
101.00	48.7	36.9	0.0	64.2	48.7	101.1	0.0	0.0		
101.50	48.7	36.8	0.0	64.2	48.7	101.0	0.0	0.0		
102.00	48.7	36.7	0.0	64.2	48.7	100.9	0.0	0.0		
102.50	48.6	36.5	0.0	64.2	48.6	100.7	0.0	0.0		
103.00	48.6	36.4	0.0	64.2	48.6	100.6	0.0	0.0		
103.50	48.6	36.3	0.0	64.2	48.6	100.5	0.0	0.0		
104.00	48.5	36.2	0.0	64.2	48.5	100.3	0.0	0.0		
104.50	48.5	36.0	0.0	64.2	48.5	100.2	0.0	0.0		
105.00	48.4	35.9	0.0	64.2	48.4	100.1	0.0	0.0		
105.50	48.4	35.8	0.0	64.2	48.4	100.0	0.0	0.0		
106.00	48.4	35.6	0.0	64.2	48.4	99.8	0.0	0.0		
106.50	48.3	35.5	0.0	64.2	48.3	99.7	0.0	0.0		
107.00	48.3	35.4	0.0	64.2	48.3	99.6	0.0	0.0		
107.50	48.2	35.3	0.0	64.2	48.2	99.4	0.0	0.0		

Site Number: 302494

Code: ANSI/TIA-222-G

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Site Name: Hddm - Haddam, CT

Engineering Number: OAA713049_C3_01

9/26/2017 3:56:38 PM

Customer: AT&T MOBILITY

Load Case: 1.2D + 1.6W	101 mph with No Ice						41 Iterations	
Gust Response Factor :1.10							Wind Importance Factor :1.00	
Dead Load Factor :1.20								
Wind Load Factor :1.60								

108.00	48.2	35.1					0.0	64.2	48.2	99.3	0.0	0.0	
108.50	48.2	35.0					0.0	64.2	48.2	99.2	0.0	0.0	
109.00	48.1	34.9					0.0	64.2	48.1	99.1	0.0	0.0	
109.50	48.1	34.7					0.0	64.2	48.1	98.9	0.0	0.0	
110.00	Top - Section 3	48.0	34.6				0.0	64.2	48.0	98.8	0.0	0.0	
110.50		48.0	25.9				0.0	56.5	48.0	82.4	0.0	0.0	
111.00		48.0	25.8				0.0	56.5	48.0	82.3	0.0	0.0	
111.50		47.9	25.7				0.0	56.5	47.9	82.2	0.0	0.0	
112.00		47.9	25.6				0.0	56.5	47.9	82.1	0.0	0.0	
112.50		47.8	25.6				0.0	56.5	47.8	82.0	0.0	0.0	
113.00		47.8	25.5				0.0	56.5	47.8	81.9	0.0	0.0	
113.50		47.7	25.4				0.0	56.5	47.7	81.8	0.0	0.0	
114.00		47.7	25.3				0.0	56.5	47.7	81.7	0.0	0.0	
114.50		47.6	25.2				0.0	56.5	47.6	81.6	0.0	0.0	
115.00		47.6	25.1				0.0	56.5	47.6	81.5	0.0	0.0	
115.50		47.5	25.0				0.0	56.5	47.5	81.4	0.0	0.0	
116.00		47.5	24.9				0.0	56.5	47.5	81.3	0.0	0.0	
116.50	Reinf. Top	47.4	24.8				0.0	56.5	47.4	81.2	0.0	0.0	
117.00		47.4	24.7				0.0	25.8	47.4	50.5	0.0	0.0	
117.50		47.4	24.6				0.0	25.8	47.4	50.4	0.0	0.0	
118.00		47.3	24.5				0.0	25.8	47.3	50.3	0.0	0.0	
118.50		47.3	24.4				0.0	25.8	47.3	50.2	0.0	0.0	
119.00		47.2	24.3				0.0	25.8	47.2	50.1	0.0	0.0	
119.50		47.2	24.2				0.0	25.8	47.2	50.0	0.0	0.0	
120.00		47.1	24.1				0.0	25.8	47.1	49.9	0.0	0.0	
120.50		47.0	24.0				0.0	25.8	47.0	49.9	0.0	0.0	
121.00		47.0	23.9				0.0	25.8	47.0	49.8	0.0	0.0	
121.50		46.9	23.8				0.0	25.8	46.9	49.7	0.0	0.0	
122.00		46.9	23.7				0.0	25.8	46.9	49.6	0.0	0.0	
122.50		46.8	23.6				0.0	25.8	46.8	49.5	0.0	0.0	
123.00		46.8	23.5				0.0	25.8	46.8	49.4	0.0	0.0	
123.50		46.7	23.4				0.0	25.8	46.7	49.3	0.0	0.0	
124.00		46.7	23.3				0.0	25.8	46.7	49.2	0.0	0.0	
124.50		46.6	23.2				0.0	25.8	46.6	49.1	0.0	0.0	
125.00		46.6	23.1				0.0	25.8	46.6	49.0	0.0	0.0	
125.50		46.5	23.0				0.0	25.8	46.5	48.9	0.0	0.0	
126.00		46.5	22.9				0.0	25.8	46.5	48.8	0.0	0.0	
126.50		46.4	22.8				0.0	25.8	46.4	48.7	0.0	0.0	
127.00		46.3	22.7				0.0	25.8	46.3	48.6	0.0	0.0	
127.50		46.3	22.7				0.0	25.8	46.3	48.5	0.0	0.0	
128.00		46.2	22.6				0.0	25.8	46.2	48.4	0.0	0.0	
128.50		46.2	22.5				0.0	25.8	46.2	48.3	0.0	0.0	
129.00		46.1	22.4				0.0	25.8	46.1	48.2	0.0	0.0	
129.50		46.0	22.3				0.0	25.8	46.0	48.1	0.0	0.0	
130.00		46.0	22.2				0.0	25.8	46.0	48.0	0.0	0.0	
130.50		45.9	22.1				0.0	25.8	45.9	47.9	0.0	0.0	
131.00	Appertunance(s)	41.4	22.0	3,445.3	0.0	0.0	3,105.7	0.0	25.8	3,486.6	3,153.5	0.0	0.0
131.50		36.8	21.9					0.0	20.4	36.8	42.3	0.0	0.0
132.00		36.7	21.8					0.0	20.4	36.7	42.2	0.0	0.0
132.50		36.6	21.7					0.0	20.4	36.6	42.1	0.0	0.0
133.00		36.6	21.6					0.0	20.4	36.6	42.0	0.0	0.0
133.50		36.5	21.5					0.0	20.4	36.5	41.9	0.0	0.0
134.00		36.4	21.4					0.0	20.4	36.4	41.8	0.0	0.0
134.50		36.3	21.3					0.0	20.4	36.3	41.7	0.0	0.0
135.00		36.3	21.2					0.0	20.4	36.3	41.6	0.0	0.0
135.50		36.2	21.1					0.0	20.4	36.2	41.5	0.0	0.0
136.00		36.1	21.0					0.0	20.4	36.1	41.4	0.0	0.0

Site Number: 302494

Code: ANSI/TIA-222-G

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Site Name: Hddm - Haddam, CT

Engineering Number: OAA713049_C3_01

9/26/2017 3:56:38 PM

Customer: AT&T MOBILITY

Load Case: 1.2D + 1.6W		101 mph with No Ice						41 Iterations					
Gust Response Factor :1.10								Wind Importance Factor :1.00					
Dead Load Factor :1.20													
Wind Load Factor :1.60													
136.50		36.0	20.9				0.0	20.4	36.0	41.3	0.0	0.0	
137.00		36.0	20.8				0.0	20.4	36.0	41.2	0.0	0.0	
137.50		35.9	20.7				0.0	20.4	35.9	41.1	0.0	0.0	
138.00		35.8	20.6				0.0	20.4	35.8	41.0	0.0	0.0	
138.50		35.7	20.5				0.0	20.4	35.7	41.0	0.0	0.0	
139.00		35.7	20.4				0.0	20.4	35.7	40.9	0.0	0.0	
139.50		35.6	20.3				0.0	20.4	35.6	40.8	0.0	0.0	
140.00		35.5	20.2				0.0	20.4	35.5	40.7	0.0	0.0	
140.50		35.4	20.1				0.0	20.4	35.4	40.6	0.0	0.0	
141.00	Appertunance(s)	34.5	20.0	487.5	0.0	0.0	79.2	0.0	20.4	522.0	119.7	0.0	0.0
141.50		33.6	19.9					0.0	17.5	33.6	37.4	0.0	0.0
142.00		33.4	19.9					0.0	17.5	33.4	37.3	0.0	0.0
142.50		33.3	19.8					0.0	17.5	33.3	37.2	0.0	0.0
143.00		33.2	19.7					0.0	17.5	33.2	37.1	0.0	0.0
143.50		33.1	19.6					0.0	17.5	33.1	37.0	0.0	0.0
144.00		32.9	19.5					0.0	17.5	32.9	36.9	0.0	0.0
144.50		32.8	19.4					0.0	17.5	32.8	36.8	0.0	0.0
145.00		32.7	19.3					0.0	17.5	32.7	36.7	0.0	0.0
145.50		32.5	19.2					0.0	17.5	32.5	36.6	0.0	0.0
146.00		32.4	19.1					0.0	17.5	32.4	36.6	0.0	0.0
146.50		32.3	19.0					0.0	17.5	32.3	36.5	0.0	0.0
147.00		32.1	18.9					0.0	17.5	32.1	36.4	0.0	0.0
147.50		32.0	18.8					0.0	17.5	32.0	36.3	0.0	0.0
148.00		31.9	18.7					0.0	17.5	31.9	36.2	0.0	0.0
148.50		31.7	18.6					0.0	17.5	31.7	36.1	0.0	0.0
149.00		31.6	18.5					0.0	17.5	31.6	36.0	0.0	0.0
149.50		31.5	18.4					0.0	17.5	31.5	35.9	0.0	0.0
150.00	Appertunance(s)	15.7	18.3	4,127.1	0.0	9,326.7	4,270.3	0.0	17.5	4,142.8	4,306.1	0.0	0.0
								Totals:	21,954.5	41,218.0	0.00	0.00	

Site Number: 302494

Code: ANSI/TIA-222-G

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Site Name: Hddm - Haddam, CT

Engineering Number: OAA713049_C3_01

9/26/2017 3:56:38 PM

Customer: AT&T MOBILITY

Load Case: 1.2D + 1.6W	101 mph with No Ice	41 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	-41.21	-21.94	0.00	-2,309.28	0.00	2,309.28	3,157.17	1,578.58	4,812.28	2,376.61	0.00	0.00	0.603
0.50	-41.06	-21.91	0.00	-2,298.32	0.00	2,298.32	3,152.93	1,576.47	4,795.55	2,368.34	0.00	-0.03	0.602
1.00	-40.90	-21.88	0.00	-2,287.36	0.00	2,287.36	3,148.69	1,574.34	4,778.83	2,360.09	0.01	-0.05	0.600
1.50	-40.75	-21.85	0.00	-2,276.42	0.00	2,276.42	3,144.43	1,572.22	4,762.13	2,351.84	0.01	-0.08	0.599
2.00	-40.60	-21.81	0.00	-2,265.50	0.00	2,265.50	3,140.17	1,570.08	4,745.43	2,343.59	0.02	-0.10	0.598
2.50	-40.44	-21.78	0.00	-2,254.60	0.00	2,254.60	3,135.89	1,567.94	4,728.75	2,335.35	0.03	-0.13	0.596
3.00	-40.29	-21.75	0.00	-2,243.70	0.00	2,243.70	3,131.60	1,565.80	4,712.08	2,327.12	0.05	-0.15	0.595
3.50	-40.14	-21.72	0.00	-2,232.83	0.00	2,232.83	3,127.31	1,563.65	4,695.42	2,318.89	0.07	-0.18	0.594
4.00	-39.98	-21.69	0.00	-2,221.97	0.00	2,221.97	3,123.00	1,561.50	4,678.77	2,310.67	0.09	-0.21	0.592
4.50	-39.83	-21.66	0.00	-2,211.12	0.00	2,211.12	3,118.68	1,559.34	4,662.14	2,302.45	0.11	-0.23	0.591
5.00	-39.68	-21.63	0.00	-2,200.29	0.00	2,200.29	3,114.35	1,557.18	4,645.51	2,294.24	0.14	-0.26	0.590
5.50	-39.52	-21.60	0.00	-2,189.48	0.00	2,189.48	3,110.02	1,555.01	4,628.91	2,286.04	0.17	-0.28	0.588
6.00	-39.37	-21.57	0.00	-2,178.68	0.00	2,178.68	3,105.67	1,552.83	4,612.31	2,277.85	0.20	-0.31	0.587
6.50	-39.22	-21.54	0.00	-2,167.90	0.00	2,167.90	3,101.31	1,550.65	4,595.73	2,269.66	0.23	-0.34	0.586
7.00	-39.07	-21.50	0.00	-2,157.13	0.00	2,157.13	3,096.94	1,548.47	4,579.16	2,261.47	0.27	-0.36	0.584
7.50	-38.92	-21.47	0.00	-2,146.38	0.00	2,146.38	3,092.56	1,546.28	4,562.60	2,253.30	0.31	-0.39	0.583
8.00	-38.77	-21.44	0.00	-2,135.64	0.00	2,135.64	3,088.17	1,544.08	4,546.06	2,245.13	0.35	-0.41	0.581
8.50	-38.59	-21.41	0.00	-2,124.92	0.00	2,124.92	3,083.77	1,541.88	4,529.53	2,236.96	0.39	-0.44	0.580
9.00	-38.41	-21.38	0.00	-2,114.21	0.00	2,114.21	3,079.36	1,539.68	4,513.01	2,228.81	0.44	-0.46	0.579
9.50	-38.24	-21.35	0.00	-2,103.52	0.00	2,103.52	3,074.94	1,537.47	4,496.51	2,220.66	0.49	-0.49	0.577
10.00	-38.06	-21.32	0.00	-2,092.85	0.00	2,092.85	3,070.50	1,535.25	4,480.02	2,212.51	0.54	-0.52	0.576
10.50	-37.88	-21.29	0.00	-2,082.19	0.00	2,082.19	3,066.06	1,533.03	4,463.54	2,204.38	0.60	-0.54	0.575
11.00	-37.71	-21.25	0.00	-2,071.55	0.00	2,071.55	3,061.61	1,530.80	4,447.08	2,196.25	0.66	-0.57	0.573
11.50	-37.53	-21.22	0.00	-2,060.92	0.00	2,060.92	3,057.15	1,528.57	4,430.63	2,188.12	0.72	-0.59	0.572
12.00	-37.36	-21.19	0.00	-2,050.31	0.00	2,050.31	3,052.67	1,526.34	4,414.20	2,180.01	0.78	-0.62	0.570
12.50	-37.18	-21.16	0.00	-2,039.71	0.00	2,039.71	3,048.19	1,524.09	4,397.78	2,171.90	0.85	-0.65	0.569
13.00	-37.01	-21.13	0.00	-2,029.13	0.00	2,029.13	3,043.69	1,521.85	4,381.37	2,163.80	0.92	-0.67	0.568
13.50	-36.83	-21.10	0.00	-2,018.57	0.00	2,018.57	3,039.19	1,519.59	4,364.98	2,155.70	0.99	-0.70	0.566
14.00	-36.66	-21.06	0.00	-2,008.02	0.00	2,008.02	3,034.67	1,517.34	4,348.61	2,147.61	1.07	-0.73	0.565
14.50	-36.49	-21.03	0.00	-1,997.49	0.00	1,997.49	3,030.15	1,515.07	4,332.24	2,139.53	1.14	-0.75	0.563
15.00	-36.31	-21.00	0.00	-1,986.97	0.00	1,986.97	3,025.61	1,512.81	4,315.90	2,131.46	1.22	-0.78	0.562
15.50	-36.14	-20.97	0.00	-1,976.47	0.00	1,976.47	3,021.07	1,510.53	4,299.57	2,123.39	1.31	-0.80	0.560
16.00	-35.96	-20.94	0.00	-1,965.99	0.00	1,965.99	3,016.51	1,508.25	4,283.25	2,115.33	1.39	-0.83	0.559
16.50	-35.79	-20.91	0.00	-1,955.52	0.00	1,955.52	3,011.94	1,505.97	4,266.95	2,107.28	1.48	-0.86	0.558
17.00	-35.62	-20.87	0.00	-1,945.07	0.00	1,945.07	3,007.37	1,503.68	4,250.66	2,099.24	1.57	-0.88	0.556
17.50	-35.44	-20.84	0.00	-1,934.63	0.00	1,934.63	3,002.78	1,501.39	4,234.39	2,091.20	1.67	-0.91	0.555
18.00	-35.27	-20.81	0.00	-1,924.21	0.00	1,924.21	2,998.18	1,499.09	4,218.13	2,083.18	1.76	-0.93	0.553
18.50	-35.10	-20.78	0.00	-1,913.81	0.00	1,913.81	2,993.57	1,496.79	4,201.89	2,075.15	1.86	-0.96	0.552
19.00	-34.93	-20.74	0.00	-1,903.42	0.00	1,903.42	2,988.95	1,494.48	4,185.66	2,067.14	1.96	-0.99	0.550
19.50	-34.76	-20.71	0.00	-1,893.05	0.00	1,893.05	2,984.32	1,492.16	4,169.45	2,059.13	2.07	-1.01	0.549
20.00	-34.58	-20.68	0.00	-1,882.69	0.00	1,882.69	2,979.68	1,489.84	4,153.25	2,051.14	2.18	-1.04	0.547
20.50	-34.41	-20.65	0.00	-1,872.35	0.00	1,872.35	2,975.03	1,487.52	4,137.08	2,043.15	2.29	-1.07	0.546
21.00	-34.24	-20.62	0.00	-1,862.03	0.00	1,862.03	2,970.37	1,485.19	4,120.91	2,035.16	2.40	-1.09	0.544
21.50	-34.07	-20.58	0.00	-1,851.72	0.00	1,851.72	2,965.70	1,482.85	4,104.77	2,027.19	2.52	-1.12	0.543
22.00	-33.90	-20.55	0.00	-1,841.43	0.00	1,841.43	2,961.02	1,480.51	4,088.63	2,019.22	2.63	-1.14	0.541
22.50	-33.73	-20.52	0.00	-1,831.15	0.00	1,831.15	2,956.33	1,478.16	4,072.52	2,011.26	2.76	-1.17	0.540
23.00	-33.56	-20.49	0.00	-1,820.89	0.00	1,820.89	2,951.62	1,475.81	4,056.42	2,003.31	2.88	-1.20	0.538
23.50	-33.39	-20.45	0.00	-1,810.65	0.00	1,810.65	2,946.91	1,473.46	4,040.34	1,995.37	3.01	-1.22	0.537
24.00	-33.22	-20.42	0.00	-1,800.42	0.00	1,800.42	2,942.19	1,471.09	4,024.27	1,987.44	3.14	-1.25	0.535
24.50	-33.05	-20.39	0.00	-1,790.21	0.00	1,790.21	2,937.46	1,468.73	4,008.22	1,979.51	3.27	-1.28	0.534
25.00	-32.88	-20.35	0.00	-1,780.02	0.00	1,780.02	2,932.71	1,466.36	3,992.19	1,971.59	3.40	-1.30	0.532

Site Number: 302494

Code: ANSI/TIA-222-G

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Site Name: Hddm - Haddam, CT

Engineering Number: OAA713049_C3_01

9/26/2017 3:56:38 PM

Customer: AT&T MOBILITY

Load Case: 1.2D + 1.6W				101 mph with No Ice				41 Iterations					
Gust Response Factor :1.10								Wind Importance Factor 1.00					
Dead Load Factor :1.20													
Wind Load Factor :1.60													
25.50	-32.71	-20.32	0.00	-1,769.84	0.00	1,769.84	2,927.96	1,463.98	3,976.18	1,963.68	3.54	-1.33	0.531
26.00	-32.54	-20.29	0.00	-1,759.68	0.00	1,759.68	2,923.19	1,461.60	3,960.18	1,955.78	3.68	-1.35	0.529
26.50	-32.37	-20.26	0.00	-1,749.54	0.00	1,749.54	2,918.42	1,459.21	3,944.20	1,947.89	3.83	-1.38	0.528
27.00	-32.20	-20.22	0.00	-1,739.41	0.00	1,739.41	2,913.63	1,456.82	3,928.23	1,940.01	3.97	-1.41	0.526
27.50	-32.04	-20.19	0.00	-1,729.30	0.00	1,729.30	2,910.08	1,455.04	3,913.96	1,932.96	4.12	-1.43	0.525
28.00	-31.87	-20.16	0.00	-1,719.20	0.00	1,719.20	2,903.11	1,451.55	3,895.11	1,923.65	4.27	-1.46	0.523
28.50	-31.70	-20.12	0.00	-1,709.13	0.00	1,709.13	2,896.13	1,448.07	3,876.32	1,914.37	4.43	-1.49	0.522
29.00	-31.53	-20.09	0.00	-1,699.06	0.00	1,699.06	2,889.16	1,444.58	3,857.57	1,905.11	4.58	-1.51	0.521
29.50	-31.36	-20.06	0.00	-1,689.02	0.00	1,689.02	2,882.19	1,441.09	3,838.86	1,895.87	4.74	-1.54	0.520
30.00	-31.20	-20.02	0.00	-1,678.99	0.00	1,678.99	2,875.21	1,437.61	3,820.20	1,886.65	4.91	-1.57	0.519
30.50	-31.03	-19.99	0.00	-1,668.98	0.00	1,668.98	2,868.24	1,434.12	3,801.59	1,877.46	5.07	-1.59	0.518
31.00	-30.86	-19.95	0.00	-1,658.99	0.00	1,658.99	2,861.26	1,430.63	3,783.02	1,868.29	5.24	-1.62	0.516
31.50	-30.70	-19.92	0.00	-1,649.01	0.00	1,649.01	2,854.29	1,427.15	3,764.50	1,859.14	5.41	-1.64	0.515
32.00	-30.46	-19.88	0.00	-1,639.05	0.00	1,639.05	2,847.32	1,423.66	3,746.02	1,850.02	5.59	-1.67	0.506
32.50	-30.23	-19.84	0.00	-1,629.11	0.00	1,629.11	2,840.34	1,420.17	3,727.58	1,840.91	5.76	-1.70	0.505
33.00	-30.00	-19.81	0.00	-1,619.19	0.00	1,619.19	2,833.37	1,416.69	3,709.20	1,831.83	5.94	-1.72	0.504
33.50	-29.77	-19.77	0.00	-1,609.29	0.00	1,609.29	2,826.40	1,413.20	3,690.85	1,822.77	6.12	-1.75	0.502
34.00	-29.53	-19.73	0.00	-1,599.40	0.00	1,599.40	2,819.42	1,409.71	3,672.56	1,813.74	6.31	-1.77	0.501
34.50	-29.30	-19.69	0.00	-1,589.54	0.00	1,589.54	2,812.45	1,406.22	3,654.31	1,804.72	6.50	-1.80	0.500
35.00	-29.07	-19.65	0.00	-1,579.70	0.00	1,579.70	2,805.48	1,402.74	3,636.10	1,795.73	6.69	-1.83	0.499
35.50	-28.84	-19.62	0.00	-1,569.87	0.00	1,569.87	2,798.50	1,399.25	3,617.94	1,786.76	6.88	-1.85	0.497
35.67	-28.77	-19.60	0.00	-1,566.60	0.00	1,566.60	2,248.07	1,124.03	2,973.91	1,468.70	6.94	-1.86	0.572
36.00	-28.66	-19.57	0.00	-1,560.07	0.00	1,560.07	2,245.83	1,122.91	2,966.06	1,464.83	7.07	-1.88	0.571
36.50	-28.51	-19.54	0.00	-1,550.28	0.00	1,550.28	2,242.46	1,121.23	2,954.30	1,459.02	7.27	-1.91	0.569
36.67	-28.46	-19.53	0.00	-1,546.96	0.00	1,546.96	2,241.31	1,120.65	2,950.31	1,457.05	7.34	-1.92	0.568
36.67	-28.46	-19.53	0.00	-1,546.96	0.00	1,546.96	2,241.31	1,120.65	2,950.31	1,457.05	7.34	-1.92	0.610
37.00	-28.36	-19.50	0.00	-1,540.52	0.00	1,540.52	2,239.08	1,119.54	2,942.55	1,453.22	7.47	-1.93	0.609
37.50	-28.22	-19.46	0.00	-1,530.77	0.00	1,530.77	2,235.69	1,117.84	2,930.81	1,447.42	7.68	-1.96	0.607
38.00	-28.07	-19.43	0.00	-1,521.04	0.00	1,521.04	2,232.29	1,116.14	2,919.08	1,441.62	7.89	-1.99	0.604
38.50	-27.93	-19.39	0.00	-1,511.33	0.00	1,511.33	2,228.88	1,114.44	2,907.36	1,435.83	8.10	-2.02	0.602
39.00	-27.78	-19.35	0.00	-1,501.63	0.00	1,501.63	2,225.46	1,112.73	2,895.64	1,430.05	8.31	-2.05	0.600
39.50	-27.64	-19.32	0.00	-1,491.96	0.00	1,491.96	2,222.03	1,111.01	2,883.93	1,424.27	8.53	-2.08	0.598
40.00	-27.49	-19.28	0.00	-1,482.30	0.00	1,482.30	2,218.59	1,109.29	2,872.23	1,418.49	8.75	-2.11	0.596
40.50	-27.35	-19.24	0.00	-1,472.66	0.00	1,472.66	2,215.14	1,107.57	2,860.55	1,412.72	8.97	-2.14	0.594
41.00	-27.20	-19.20	0.00	-1,463.04	0.00	1,463.04	2,211.67	1,105.84	2,848.87	1,406.95	9.20	-2.17	0.591
41.50	-27.06	-19.16	0.00	-1,453.44	0.00	1,453.44	2,208.20	1,104.10	2,837.20	1,401.18	9.42	-2.20	0.589
42.00	-26.91	-19.13	0.00	-1,443.86	0.00	1,443.86	2,204.72	1,102.36	2,825.53	1,395.42	9.66	-2.23	0.587
42.50	-26.77	-19.09	0.00	-1,434.29	0.00	1,434.29	2,201.23	1,100.61	2,813.88	1,389.67	9.89	-2.26	0.585
43.00	-26.63	-19.05	0.00	-1,424.75	0.00	1,424.75	2,197.72	1,098.86	2,802.24	1,383.92	10.13	-2.29	0.583
43.50	-26.48	-19.01	0.00	-1,415.22	0.00	1,415.22	2,194.21	1,097.10	2,790.61	1,378.18	10.37	-2.32	0.580
44.00	-26.34	-18.97	0.00	-1,405.72	0.00	1,405.72	2,190.68	1,095.34	2,778.98	1,372.44	10.62	-2.35	0.578
44.50	-26.20	-18.93	0.00	-1,396.23	0.00	1,396.23	2,187.15	1,093.57	2,767.37	1,366.70	10.87	-2.38	0.576
45.00	-26.06	-18.89	0.00	-1,386.77	0.00	1,386.77	2,183.60	1,091.80	2,755.77	1,360.97	11.12	-2.41	0.574
45.50	-25.91	-18.85	0.00	-1,377.32	0.00	1,377.32	2,180.05	1,090.02	2,744.17	1,355.24	11.37	-2.44	0.571
46.00	-25.77	-18.81	0.00	-1,367.89	0.00	1,367.89	2,176.48	1,088.24	2,732.59	1,349.52	11.63	-2.47	0.569
46.50	-25.63	-18.77	0.00	-1,358.49	0.00	1,358.49	2,172.91	1,086.45	2,721.02	1,343.81	11.89	-2.50	0.567
47.00	-25.49	-18.73	0.00	-1,349.10	0.00	1,349.10	2,169.32	1,084.66	2,709.45	1,338.10	12.15	-2.53	0.565
47.50	-25.35	-18.69	0.00	-1,339.73	0.00	1,339.73	2,165.72	1,082.86	2,697.90	1,332.39	12.42	-2.56	0.562
48.00	-25.20	-18.65	0.00	-1,330.39	0.00	1,330.39	2,162.11	1,081.06	2,686.36	1,326.69	12.69	-2.59	0.560
48.50	-25.06	-18.61	0.00	-1,321.06	0.00	1,321.06	2,158.50	1,079.25	2,674.83	1,321.00	12.96	-2.62	0.558
49.00	-24.92	-18.57	0.00	-1,311.75	0.00	1,311.75	2,154.87	1,077.43	2,663.31	1,315.31	13.23	-2.65	0.556
49.50	-24.78	-18.53	0.00	-1,302.47	0.00	1,302.47	2,151.23	1,075.61	2,651.80	1,309.62	13.51	-2.67	0.553
50.00	-24.52	-18.38	0.00	-1,293.20	0.00	1,293.20	2,147.58	1,073.79	2,640.30	1,303.95	13.79	-2.70	0.551
50.50	-24.38	-18.34	0.00	-1,284.01	0.00	1,284.01	2,143.92	1,071.96	2,628.81	1,298.27	14.08	-2.73	0.549
51.00	-24.24	-18.30	0.00	-1,274.85	0.00	1,274.85	2,140.25	1,070.13	2,617.34	1,292.60	14.37	-2.76	0.546
51.50	-24.10	-18.25	0.00	-1,265.70	0.00	1,265.70	2,136.57	1,068.29	2,605.87	1,286.94	14.66	-2.79	0.544
52.00	-23.96	-18.21	0.00	-1,256.57	0.00	1,256.57	2,132.88	1,066.44	2,594.42	1,281.29	14.95	-2.82	0.542

Site Number: 302494

Code: ANSI/TIA-222-G

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Site Name: Hddm - Haddam, CT

Engineering Number: OAA713049_C3_01

9/26/2017 3:56:38 PM

Customer: AT&T MOBILITY

Load Case: 1.2D + 1.6W				101 mph with No Ice				41 Iterations					
Gust Response Factor :1.10								Wind Importance Factor 1.00					
Dead Load Factor :1.20													
Wind Load Factor :1.60													
52.50	-23.82	-18.17	0.00	-1,247.47	0.00	1,247.47	2,129.18	1,064.59	2,582.98	1,275.64	15.25	-2.85	0.540
53.00	-23.69	-18.13	0.00	-1,238.38	0.00	1,238.38	2,125.47	1,062.73	2,571.55	1,269.99	15.55	-2.88	0.537
53.50	-23.55	-18.08	0.00	-1,229.32	0.00	1,229.32	2,121.75	1,060.87	2,560.13	1,264.35	15.85	-2.91	0.535
54.00	-23.41	-18.04	0.00	-1,220.28	0.00	1,220.28	2,118.01	1,059.01	2,548.72	1,258.72	16.16	-2.94	0.533
54.50	-23.27	-18.00	0.00	-1,211.26	0.00	1,211.26	2,114.27	1,057.14	2,537.32	1,253.09	16.47	-2.97	0.530
55.00	-23.13	-17.95	0.00	-1,202.26	0.00	1,202.26	2,110.52	1,055.26	2,525.94	1,247.47	16.78	-3.00	0.528
55.50	-22.99	-17.91	0.00	-1,193.28	0.00	1,193.28	2,106.75	1,053.38	2,514.57	1,241.85	17.10	-3.03	0.526
56.00	-22.86	-17.87	0.00	-1,184.33	0.00	1,184.33	2,102.98	1,051.49	2,503.21	1,236.24	17.42	-3.06	0.524
56.50	-22.72	-17.82	0.00	-1,175.39	0.00	1,175.39	2,099.20	1,049.60	2,491.86	1,230.64	17.74	-3.08	0.521
57.00	-22.58	-17.78	0.00	-1,166.48	0.00	1,166.48	2,095.40	1,047.70	2,480.53	1,225.04	18.06	-3.11	0.519
57.50	-22.45	-17.74	0.00	-1,157.59	0.00	1,157.59	2,091.60	1,045.80	2,469.21	1,219.45	18.39	-3.14	0.517
58.00	-22.31	-17.69	0.00	-1,148.72	0.00	1,148.72	2,087.78	1,043.89	2,457.90	1,213.86	18.72	-3.17	0.514
58.50	-22.17	-17.65	0.00	-1,139.88	0.00	1,139.88	2,083.96	1,041.98	2,446.60	1,208.28	19.05	-3.20	0.512
59.00	-22.04	-17.60	0.00	-1,131.06	0.00	1,131.06	2,080.12	1,040.06	2,435.32	1,202.71	19.39	-3.23	0.510
59.50	-21.90	-17.56	0.00	-1,122.25	0.00	1,122.25	2,076.27	1,038.14	2,424.04	1,197.14	19.73	-3.26	0.507
60.00	-21.76	-17.51	0.00	-1,113.48	0.00	1,113.48	2,072.41	1,036.21	2,412.79	1,191.58	20.07	-3.29	0.505
60.50	-21.63	-17.47	0.00	-1,104.72	0.00	1,104.72	2,068.55	1,034.27	2,401.54	1,186.03	20.42	-3.32	0.502
61.00	-21.49	-17.42	0.00	-1,095.99	0.00	1,095.99	2,064.67	1,032.33	2,390.31	1,180.48	20.77	-3.35	0.500
61.50	-21.36	-17.38	0.00	-1,087.28	0.00	1,087.28	2,060.78	1,030.39	2,379.09	1,174.94	21.12	-3.38	0.498
62.00	-21.22	-17.33	0.00	-1,078.59	0.00	1,078.59	2,056.88	1,028.44	2,367.88	1,169.41	21.48	-3.40	0.495
62.50	-21.09	-17.28	0.00	-1,069.92	0.00	1,069.92	2,052.97	1,026.49	2,356.69	1,163.88	21.83	-3.43	0.493
63.00	-20.95	-17.24	0.00	-1,061.28	0.00	1,061.28	2,049.05	1,024.53	2,345.51	1,158.36	22.19	-3.46	0.491
63.50	-20.82	-17.19	0.00	-1,052.66	0.00	1,052.66	2,045.12	1,022.56	2,334.35	1,152.85	22.56	-3.49	0.488
64.00	-20.69	-17.15	0.00	-1,044.07	0.00	1,044.07	2,041.18	1,020.59	2,323.20	1,147.34	22.93	-3.52	0.486
64.50	-20.55	-17.10	0.00	-1,035.49	0.00	1,035.49	2,037.23	1,018.62	2,312.06	1,141.84	23.30	-3.55	0.483
65.00	-20.42	-17.05	0.00	-1,026.94	0.00	1,026.94	2,033.27	1,016.64	2,300.94	1,136.35	23.67	-3.58	0.481
65.50	-20.29	-17.01	0.00	-1,018.42	0.00	1,018.42	2,029.30	1,014.65	2,289.83	1,130.86	24.04	-3.60	0.478
66.00	-20.15	-16.96	0.00	-1,009.91	0.00	1,009.91	2,025.32	1,012.66	2,278.74	1,125.38	24.42	-3.63	0.476
66.50	-20.02	-16.91	0.00	-1,001.43	0.00	1,001.43	2,021.33	1,010.66	2,267.65	1,119.91	24.81	-3.66	0.474
67.00	-19.89	-16.87	0.00	-992.98	0.00	992.98	2,017.33	1,008.67	2,256.56	1,114.45	25.19	-3.69	0.471
67.50	-19.75	-16.82	0.00	-984.55	0.00	984.55	2,013.33	1,006.67	2,245.47	1,108.98	25.58	-3.72	0.469
68.00	-19.62	-16.77	0.00	-976.14	0.00	976.14	2,009.33	1,004.67	2,234.38	1,103.51	25.97	-3.75	0.467
68.50	-19.49	-16.72	0.00	-967.75	0.00	967.75	2,005.34	1,002.67	2,223.29	1,098.04	26.36	-3.78	0.465
69.00	-19.36	-16.68	0.00	-959.39	0.00	959.39	2,001.33	1,000.66	2,212.14	1,092.56	26.76	-3.80	0.463
69.50	-19.23	-16.63	0.00	-951.05	0.00	951.05	1,997.33	998.66	2,201.04	1,087.07	27.16	-3.83	0.461
70.00	-19.10	-16.58	0.00	-942.74	0.00	942.74	1,993.33	996.66	2,190.00	1,081.58	27.56	-3.86	0.459
70.50	-18.92	-16.53	0.00	-934.45	0.00	934.45	1,989.33	994.66	2,179.00	1,076.09	27.97	-3.89	0.449
71.00	-18.74	-16.47	0.00	-926.19	0.00	926.19	1,985.33	992.66	2,168.00	1,070.60	28.38	-3.92	0.447
71.50	-18.57	-16.42	0.00	-917.95	0.00	917.95	1,981.33	990.66	2,157.00	1,065.11	28.79	-3.94	0.445
72.00	-18.40	-16.37	0.00	-909.74	0.00	909.74	1,977.33	988.66	2,146.00	1,059.62	29.20	-3.97	0.443
72.50	-18.22	-16.32	0.00	-901.55	0.00	901.55	1,973.33	986.66	2,135.00	1,054.13	29.62	-4.00	0.441
73.00	-18.05	-16.27	0.00	-893.40	0.00	893.40	1,969.33	984.66	2,124.00	1,048.64	30.04	-4.03	0.439
73.33	-17.93	-16.24	0.00	-888.03	0.00	888.03	1,965.33	982.66	2,113.00	1,043.15	30.46	-4.06	0.437
73.33	-17.93	-16.24	0.00	-888.03	0.00	888.03	1,961.33	980.66	2,102.00	1,037.66	30.88	-4.09	0.435
73.50	-17.88	-16.21	0.00	-885.27	0.00	885.27	1,957.33	978.66	2,091.00	1,032.17	31.30	-4.12	0.433
74.00	-17.76	-16.16	0.00	-877.16	0.00	877.16	1,953.33	976.66	2,080.00	1,026.68	31.72	-4.15	0.431
74.50	-17.65	-16.12	0.00	-869.08	0.00	869.08	1,949.33	974.66	2,069.00	1,021.19	32.14	-4.18	0.429
75.00	-17.54	-16.07	0.00	-861.02	0.00	861.02	1,945.33	972.66	2,058.00	1,015.70	32.56	-4.21	0.427
75.50	-17.42	-16.02	0.00	-852.99	0.00	852.99	1,941.33	970.66	2,047.00	1,010.21	32.98	-4.24	0.425
76.00	-17.31	-15.97	0.00	-844.98	0.00	844.98	1,937.33	968.66	2,036.00	1,004.72	33.40	-4.27	0.423
76.50	-17.20	-15.93	0.00	-836.99	0.00	836.99	1,933.33	966.66	2,025.00	1,000.00	33.82	-4.30	0.421
77.00	-17.09	-15.88	0.00	-829.03	0.00	829.03	1,929.33	964.66	2,014.00	995.29	34.24	-4.33	0.419
77.50	-16.97	-15.83	0.00	-821.09	0.00	821.09	1,925.33	962.66	2,003.00	990.58	34.66	-4.36	0.417
78.00	-16.86	-15.78	0.00	-813.17	0.00	813.17	1,921.33	960.66	1,992.00	985.87	35.08	-4.39	0.415
78.50	-16.75	-15.73	0.00	-805.28	0.00	805.28	1,917.33	958.66	1,981.00	981.16	35.50	-4.42	0.413
79.00	-16.64	-15.69	0.00	-797.42	0.00	797.42	1,913.33	956.66	1,970.00	976.45	35.92	-4.45	0.411
79.50	-16.53	-15.64	0.00	-789.57	0.00	789.57	1,909.33	954.66	1,959.00	971.74	36.34	-4.48	0.409

Site Number: 302494

Code: ANSI/TIA-222-G

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Site Name: Hddm - Haddam, CT

Engineering Number: OAA713049_C3_01

9/26/2017 3:56:39 PM

Customer: AT&T MOBILITY

Load Case: 1.2D + 1.6W				101 mph with No Ice				41 Iterations					
Gust Response Factor :1.10								Wind Importance Factor :1.00					
Dead Load Factor :1.20													
Wind Load Factor :1.60													
80.00	-16.42	-15.59	0.00	-781.75	0.00	781.75	1,440.00	720.00	1,526.12	753.69	36.26	-4.47	0.524
80.50	-16.31	-15.54	0.00	-773.96	0.00	773.96	1,437.32	718.66	1,518.59	749.97	36.73	-4.50	0.520
81.00	-16.20	-15.49	0.00	-766.19	0.00	766.19	1,434.62	717.31	1,511.06	746.26	37.21	-4.53	0.517
81.50	-16.09	-15.44	0.00	-758.45	0.00	758.45	1,431.91	715.96	1,503.54	742.54	37.68	-4.56	0.513
82.00	-15.98	-15.39	0.00	-750.73	0.00	750.73	1,429.20	714.60	1,496.03	738.83	38.16	-4.59	0.509
82.50	-15.87	-15.34	0.00	-743.03	0.00	743.03	1,426.47	713.23	1,488.53	735.13	38.64	-4.63	0.506
83.00	-15.76	-15.29	0.00	-735.36	0.00	735.36	1,423.73	711.87	1,481.03	731.43	39.13	-4.66	0.502
83.50	-15.65	-15.24	0.00	-727.71	0.00	727.71	1,420.98	710.49	1,473.54	727.73	39.62	-4.69	0.499
84.00	-15.54	-15.19	0.00	-720.09	0.00	720.09	1,418.23	709.11	1,466.06	724.03	40.11	-4.72	0.495
84.50	-15.43	-15.14	0.00	-712.49	0.00	712.49	1,415.46	707.73	1,458.58	720.34	40.61	-4.75	0.492
85.00	-15.32	-15.09	0.00	-704.92	0.00	704.92	1,412.68	706.34	1,451.11	716.65	41.10	-4.78	0.488
85.50	-15.21	-15.04	0.00	-697.37	0.00	697.37	1,409.89	704.94	1,443.65	712.97	41.61	-4.81	0.484
86.00	-15.10	-14.99	0.00	-689.85	0.00	689.85	1,407.09	703.54	1,436.20	709.28	42.11	-4.84	0.481
86.50	-14.99	-14.94	0.00	-682.36	0.00	682.36	1,404.28	702.14	1,428.75	705.61	42.62	-4.87	0.477
87.00	-14.89	-14.89	0.00	-674.88	0.00	674.88	1,401.46	700.73	1,421.32	701.93	43.13	-4.90	0.473
87.50	-14.78	-14.84	0.00	-667.44	0.00	667.44	1,398.63	699.31	1,413.89	698.26	43.65	-4.93	0.470
88.00	-14.67	-14.79	0.00	-660.01	0.00	660.01	1,395.79	697.89	1,406.46	694.60	44.16	-4.96	0.466
88.50	-14.56	-14.74	0.00	-652.62	0.00	652.62	1,392.93	696.47	1,399.05	690.94	44.68	-4.99	0.463
89.00	-14.46	-14.69	0.00	-645.25	0.00	645.25	1,390.07	695.04	1,391.64	687.28	45.21	-5.02	0.459
89.50	-14.35	-14.64	0.00	-637.90	0.00	637.90	1,387.20	693.60	1,384.25	683.63	45.74	-5.05	0.455
90.00	-14.24	-14.59	0.00	-630.58	0.00	630.58	1,384.32	692.16	1,376.86	679.98	46.27	-5.08	0.452
90.50	-14.14	-14.54	0.00	-623.29	0.00	623.29	1,381.42	690.71	1,369.48	676.33	46.80	-5.11	0.448
91.00	-14.03	-14.49	0.00	-616.02	0.00	616.02	1,378.52	689.26	1,362.10	672.69	47.34	-5.14	0.444
91.50	-13.92	-14.44	0.00	-608.77	0.00	608.77	1,375.61	687.80	1,354.74	669.06	47.88	-5.17	0.441
92.00	-13.82	-14.39	0.00	-601.55	0.00	601.55	1,372.68	686.34	1,347.39	665.42	48.42	-5.20	0.437
92.50	-13.71	-14.33	0.00	-594.36	0.00	594.36	1,369.75	684.87	1,340.04	661.80	48.96	-5.23	0.433
93.00	-13.61	-14.28	0.00	-587.20	0.00	587.20	1,366.80	683.40	1,332.70	658.17	49.51	-5.26	0.429
93.50	-13.50	-14.23	0.00	-580.05	0.00	580.05	1,363.85	681.92	1,325.38	654.55	50.06	-5.29	0.426
94.00	-13.40	-14.18	0.00	-572.94	0.00	572.94	1,360.88	680.44	1,318.06	650.94	50.62	-5.32	0.422
94.50	-13.29	-14.13	0.00	-565.85	0.00	565.85	1,357.90	678.95	1,310.75	647.33	51.18	-5.35	0.418
95.00	-13.19	-14.08	0.00	-558.79	0.00	558.79	1,354.92	677.46	1,303.45	643.72	51.74	-5.37	0.415
95.50	-13.08	-14.02	0.00	-551.75	0.00	551.75	1,351.92	675.96	1,296.16	640.12	52.30	-5.40	0.411
96.00	-12.98	-13.97	0.00	-544.74	0.00	544.74	1,348.91	674.46	1,288.88	636.53	52.87	-5.43	0.407
96.50	-12.87	-13.92	0.00	-537.75	0.00	537.75	1,345.89	672.95	1,281.61	632.94	53.44	-5.46	0.403
97.00	-12.77	-13.87	0.00	-530.79	0.00	530.79	1,342.86	671.43	1,274.35	629.35	54.01	-5.49	0.399
97.50	-12.67	-13.81	0.00	-523.86	0.00	523.86	1,339.82	669.91	1,267.09	625.77	54.59	-5.51	0.396
98.00	-12.56	-13.76	0.00	-516.95	0.00	516.95	1,336.78	668.39	1,259.85	622.19	55.16	-5.54	0.392
98.50	-12.46	-13.71	0.00	-510.07	0.00	510.07	1,333.72	666.86	1,252.62	618.62	55.75	-5.57	0.388
99.00	-12.36	-13.66	0.00	-503.22	0.00	503.22	1,330.65	665.32	1,245.40	615.06	56.33	-5.60	0.384
99.50	-12.26	-13.60	0.00	-496.39	0.00	496.39	1,327.57	663.78	1,238.19	611.50	56.92	-5.62	0.381
100.00	-12.15	-13.55	0.00	-489.59	0.00	489.59	1,324.47	662.24	1,230.99	607.94	57.51	-5.65	0.377
100.50	-12.05	-13.50	0.00	-482.81	0.00	482.81	1,321.37	660.69	1,223.80	604.39	58.10	-5.68	0.373
101.00	-11.95	-13.45	0.00	-476.06	0.00	476.06	1,318.26	659.13	1,216.62	600.84	58.69	-5.71	0.369
101.50	-11.85	-13.39	0.00	-469.34	0.00	469.34	1,315.14	657.57	1,209.45	597.30	59.29	-5.73	0.365
102.00	-11.75	-13.34	0.00	-462.64	0.00	462.64	1,312.01	656.00	1,202.30	593.77	59.89	-5.76	0.361
102.50	-11.64	-13.29	0.00	-455.97	0.00	455.97	1,308.86	654.43	1,195.15	590.24	60.50	-5.78	0.358
103.00	-11.54	-13.23	0.00	-449.33	0.00	449.33	1,305.71	652.86	1,188.02	586.72	61.10	-5.81	0.354
103.50	-11.44	-13.18	0.00	-442.71	0.00	442.71	1,302.55	651.27	1,180.89	583.20	61.71	-5.84	0.350
104.00	-11.34	-13.13	0.00	-436.12	0.00	436.12	1,299.37	649.69	1,173.78	579.69	62.32	-5.86	0.346
104.50	-11.24	-13.07	0.00	-429.56	0.00	429.56	1,296.19	648.09	1,166.68	576.18	62.94	-5.89	0.342
105.00	-11.14	-13.02	0.00	-423.02	0.00	423.02	1,292.99	646.50	1,159.59	572.68	63.56	-5.91	0.338
105.50	-11.04	-12.97	0.00	-416.51	0.00	416.51	1,288.98	644.49	1,151.78	568.82	64.18	-5.94	0.334
106.00	-10.94	-12.91	0.00	-410.03	0.00	410.03	1,284.33	642.16	1,143.44	564.70	64.80	-5.96	0.331
106.50	-10.84	-12.86	0.00	-403.58	0.00	403.58	1,279.68	639.84	1,135.13	560.60	65.42	-5.99	0.327
107.00	-10.74	-12.80	0.00	-397.15	0.00	397.15	1,275.03	637.51	1,126.85	556.51	66.05	-6.01	0.324
107.50	-10.64	-12.75	0.00	-390.74	0.00	390.74	1,270.38	635.19	1,118.60	552.44	66.68	-6.04	0.320
108.00	-10.54	-12.70	0.00	-384.37	0.00	384.37	1,265.73	632.87	1,110.38	548.38	67.31	-6.06	0.316

Site Number: 302494

Code: ANSI/TIA-222-G

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Site Name: Hddm - Haddam, CT

Engineering Number: OAA713049_C3_01

9/26/2017 3:56:39 PM

Customer: AT&T MOBILITY

Load Case: 1.2D + 1.6W				101 mph with No Ice				41 Iterations					
Gust Response Factor :1.10								Wind Importance Factor 1.00					
Dead Load Factor :1.20													
Wind Load Factor :1.60													
108.50	-10.44	-12.64	0.00	-378.02	0.00	378.02	1,261.08	630.54	1,102.19	544.33	67.95	-6.09	0.313
109.00	-10.34	-12.59	0.00	-371.70	0.00	371.70	1,256.43	628.22	1,094.04	540.30	68.59	-6.11	0.309
109.50	-10.25	-12.53	0.00	-365.40	0.00	365.40	1,251.78	625.89	1,085.91	536.29	69.23	-6.14	0.306
110.00	-10.15	-12.48	0.00	-359.14	0.00	359.14	1,247.14	623.57	1,077.81	532.29	69.87	-6.16	0.302
110.00	-10.15	-12.48	0.00	-359.14	0.00	359.14	853.24	426.62	741.79	366.34	69.87	-6.16	0.000
110.50	-10.07	-12.43	0.00	-352.90	0.00	352.90	851.46	425.73	737.46	364.21	70.51	-6.18	0.421
111.00	-9.98	-12.38	0.00	-346.68	0.00	346.68	849.67	424.84	733.15	362.07	71.16	-6.21	0.415
111.50	-9.90	-12.33	0.00	-340.49	0.00	340.49	847.87	423.94	728.83	359.94	71.81	-6.24	0.409
112.00	-9.82	-12.27	0.00	-334.33	0.00	334.33	846.07	423.03	724.52	357.81	72.47	-6.27	0.403
112.50	-9.73	-12.22	0.00	-328.19	0.00	328.19	844.25	422.12	720.21	355.68	73.13	-6.30	0.397
113.00	-9.65	-12.17	0.00	-322.08	0.00	322.08	842.42	421.21	715.90	353.56	73.79	-6.33	0.391
113.50	-9.57	-12.12	0.00	-316.00	0.00	316.00	840.58	420.29	711.60	351.43	74.45	-6.36	0.385
114.00	-9.49	-12.07	0.00	-309.94	0.00	309.94	838.73	419.36	707.30	349.31	75.12	-6.38	0.379
114.50	-9.41	-12.02	0.00	-303.90	0.00	303.90	836.87	418.43	703.00	347.19	75.78	-6.41	0.373
115.00	-9.33	-11.96	0.00	-297.90	0.00	297.90	834.99	417.50	698.71	345.06	76.46	-6.44	0.367
115.50	-9.24	-11.91	0.00	-291.91	0.00	291.91	833.11	416.56	694.42	342.95	77.13	-6.47	0.361
116.00	-9.16	-11.86	0.00	-285.96	0.00	285.96	831.22	415.61	690.13	340.83	77.81	-6.49	0.355
116.50	-9.08	-11.81	0.00	-280.03	0.00	280.03	829.32	414.66	685.85	338.71	78.49	-6.52	0.349
116.50	-9.08	-11.81	0.00	-280.03	0.00	280.03	829.32	414.66	685.85	338.71	78.49	-6.52	0.839
117.00	-9.03	-11.76	0.00	-274.13	0.00	274.13	827.41	413.70	681.57	336.60	79.17	-6.55	0.826
117.50	-8.97	-11.72	0.00	-268.24	0.00	268.24	825.48	412.74	677.29	334.49	79.86	-6.61	0.814
118.00	-8.91	-11.68	0.00	-262.39	0.00	262.39	823.55	411.77	673.02	332.38	80.55	-6.67	0.801
118.50	-8.86	-11.63	0.00	-256.55	0.00	256.55	821.61	410.80	668.75	330.27	81.26	-6.73	0.788
119.00	-8.80	-11.59	0.00	-250.73	0.00	250.73	819.65	409.83	664.49	328.17	81.96	-6.79	0.776
119.50	-8.74	-11.55	0.00	-244.94	0.00	244.94	817.69	408.84	660.23	326.06	82.68	-6.85	0.763
120.00	-8.69	-11.50	0.00	-239.17	0.00	239.17	815.71	407.86	655.98	323.96	83.40	-6.91	0.750
120.50	-8.63	-11.46	0.00	-233.42	0.00	233.42	813.73	406.86	651.73	321.87	84.12	-6.97	0.737
121.00	-8.58	-11.41	0.00	-227.69	0.00	227.69	811.73	405.86	647.49	319.77	84.85	-7.03	0.723
121.50	-8.52	-11.37	0.00	-221.98	0.00	221.98	809.72	404.86	643.25	317.68	85.59	-7.09	0.710
122.00	-8.47	-11.32	0.00	-216.30	0.00	216.30	807.71	403.85	639.01	315.58	86.33	-7.14	0.697
122.50	-8.41	-11.28	0.00	-210.63	0.00	210.63	805.68	402.84	634.78	313.49	87.08	-7.20	0.683
123.00	-8.36	-11.24	0.00	-204.99	0.00	204.99	803.64	401.82	630.56	311.41	87.84	-7.25	0.669
123.50	-8.31	-11.19	0.00	-199.38	0.00	199.38	801.59	400.80	626.34	309.32	88.60	-7.31	0.656
124.00	-8.25	-11.15	0.00	-193.78	0.00	193.78	799.54	399.77	622.12	307.24	89.37	-7.36	0.642
124.50	-8.20	-11.10	0.00	-188.21	0.00	188.21	797.47	398.73	617.91	305.16	90.14	-7.41	0.628
125.00	-8.15	-11.06	0.00	-182.66	0.00	182.66	795.39	397.69	613.71	303.09	90.92	-7.47	0.614
125.50	-8.10	-11.01	0.00	-177.13	0.00	177.13	793.30	396.65	609.51	301.01	91.70	-7.52	0.599
126.00	-8.05	-10.96	0.00	-171.63	0.00	171.63	791.20	395.60	605.32	298.94	92.49	-7.57	0.585
126.50	-7.99	-10.92	0.00	-166.14	0.00	166.14	789.09	394.54	601.13	296.88	93.28	-7.61	0.571
127.00	-7.94	-10.87	0.00	-160.68	0.00	160.68	786.97	393.48	596.95	294.81	94.08	-7.66	0.556
127.50	-7.89	-10.83	0.00	-155.25	0.00	155.25	784.84	392.42	592.78	292.75	94.88	-7.71	0.541
128.00	-7.84	-10.78	0.00	-149.83	0.00	149.83	782.69	391.35	588.61	290.69	95.69	-7.75	0.526
128.50	-7.79	-10.73	0.00	-144.44	0.00	144.44	780.54	390.27	584.44	288.64	96.50	-7.80	0.511
129.00	-7.74	-10.69	0.00	-139.08	0.00	139.08	778.38	389.19	580.29	286.58	97.32	-7.84	0.496
129.50	-7.69	-10.64	0.00	-133.73	0.00	133.73	776.21	388.10	576.14	284.53	98.14	-7.89	0.481
130.00	-7.65	-10.60	0.00	-128.41	0.00	128.41	774.02	387.01	572.00	282.49	98.96	-7.93	0.465
130.50	-7.60	-10.55	0.00	-123.11	0.00	123.11	771.83	385.91	567.86	280.44	99.79	-7.97	0.450
131.00	-4.95	-6.66	0.00	-117.84	0.00	117.84	769.63	384.81	563.73	278.40	100.63	-8.01	0.430
131.50	-4.91	-6.62	0.00	-114.51	0.00	114.51	767.41	383.71	559.60	276.37	101.47	-8.04	0.421
132.00	-4.87	-6.58	0.00	-111.20	0.00	111.20	765.19	382.59	555.49	274.33	102.31	-8.08	0.412
132.50	-4.83	-6.54	0.00	-107.91	0.00	107.91	762.95	381.48	551.38	272.31	103.15	-8.12	0.403
133.00	-4.79	-6.50	0.00	-104.64	0.00	104.64	760.71	380.35	547.28	270.28	104.00	-8.15	0.394
133.50	-4.75	-6.46	0.00	-101.39	0.00	101.39	758.45	379.23	543.18	268.26	104.86	-8.19	0.384
134.00	-4.71	-6.43	0.00	-98.15	0.00	98.15	756.18	378.09	539.09	266.24	105.71	-8.23	0.375
134.50	-4.67	-6.39	0.00	-94.94	0.00	94.94	753.91	376.95	535.01	264.22	106.57	-8.26	0.366
135.00	-4.63	-6.35	0.00	-91.75	0.00	91.75	751.62	375.81	530.94	262.21	107.44	-8.29	0.356
135.50	-4.59	-6.31	0.00	-88.57	0.00	88.57	749.32	374.66	526.87	260.20	108.30	-8.33	0.347

Site Number: 302494

Code: ANSI/TIA-222-G

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Site Name: Hddm - Haddam, CT

Engineering Number: OAA713049_C3_01

9/26/2017 3:56:39 PM

Customer: AT&T MOBILITY

Load Case: 1.2D + 1.6W				101 mph with No Ice				41 Iterations					
Gust Response Factor :1.10								Wind Importance Factor :1.00					
Dead Load Factor :1.20													
Wind Load Factor :1.60													
136.00	-4.55	-6.27	0.00	-85.42	0.00	85.42	747.01	373.51	522.82	258.20	109.17	-8.36	0.337
136.50	-4.51	-6.23	0.00	-82.28	0.00	82.28	744.70	372.35	518.77	256.20	110.05	-8.39	0.328
137.00	-4.47	-6.19	0.00	-79.17	0.00	79.17	742.37	371.18	514.72	254.20	110.93	-8.42	0.318
137.50	-4.44	-6.15	0.00	-76.07	0.00	76.07	740.03	370.01	510.69	252.21	111.81	-8.45	0.308
138.00	-4.40	-6.11	0.00	-73.00	0.00	73.00	737.68	368.84	506.66	250.22	112.69	-8.48	0.298
138.50	-4.36	-6.07	0.00	-69.94	0.00	69.94	735.32	367.66	502.65	248.24	113.58	-8.51	0.288
139.00	-4.32	-6.03	0.00	-66.91	0.00	66.91	732.95	366.47	498.64	246.26	114.47	-8.54	0.278
139.50	-4.28	-5.99	0.00	-63.89	0.00	63.89	730.57	365.28	494.64	244.28	115.36	-8.56	0.268
140.00	-4.25	-5.96	0.00	-60.89	0.00	60.89	728.18	364.09	490.64	242.31	116.25	-8.59	0.257
140.50	-4.21	-5.92	0.00	-57.92	0.00	57.92	725.44	362.72	486.44	240.23	117.15	-8.61	0.247
141.00	-4.17	-5.88	0.00	-54.96	0.00	54.96	721.95	360.98	481.74	237.92	118.05	-8.64	0.237
141.50	-4.13	-5.85	0.00	-52.27	0.00	52.27	718.47	359.23	477.08	235.61	118.95	-8.66	0.228
142.00	-4.10	-5.81	0.00	-49.59	0.00	49.59	714.98	357.49	472.43	233.32	119.86	-8.68	0.219
142.50	-4.07	-5.77	0.00	-46.94	0.00	46.94	711.49	355.75	467.81	231.03	120.76	-8.70	0.209
143.00	-4.03	-5.74	0.00	-44.30	0.00	44.30	708.01	354.00	463.21	228.76	121.67	-8.72	0.200
143.50	-4.00	-5.70	0.00	-41.68	0.00	41.68	704.52	352.26	458.63	226.50	122.58	-8.74	0.190
144.00	-3.97	-5.66	0.00	-39.09	0.00	39.09	701.03	350.52	454.07	224.25	123.50	-8.76	0.180
144.50	-3.93	-5.62	0.00	-36.51	0.00	36.51	697.55	348.77	449.54	222.01	124.41	-8.78	0.170
145.00	-3.90	-5.59	0.00	-33.94	0.00	33.94	694.06	347.03	445.03	219.78	125.33	-8.80	0.160
145.50	-3.87	-5.55	0.00	-31.40	0.00	31.40	690.57	345.29	440.55	217.57	126.25	-8.81	0.150
146.00	-3.83	-5.51	0.00	-28.87	0.00	28.87	687.09	343.54	436.08	215.36	127.17	-8.83	0.140
146.50	-3.80	-5.48	0.00	-26.37	0.00	26.37	683.60	341.80	431.64	213.17	128.09	-8.84	0.129
147.00	-3.77	-5.44	0.00	-23.88	0.00	23.88	680.11	340.06	427.22	210.99	129.01	-8.86	0.119
147.50	-3.74	-5.41	0.00	-21.41	0.00	21.41	676.63	338.31	422.83	208.82	129.94	-8.87	0.108
148.00	-3.71	-5.37	0.00	-18.95	0.00	18.95	673.14	336.57	418.45	206.66	130.86	-8.88	0.097
148.50	-3.68	-5.34	0.00	-16.52	0.00	16.52	669.65	334.83	414.10	204.51	131.79	-8.89	0.086
149.00	-3.64	-5.30	0.00	-14.10	0.00	14.10	666.16	333.08	409.78	202.37	132.72	-8.90	0.075
149.50	-3.61	-5.27	0.00	-11.71	0.00	11.71	662.68	331.34	405.47	200.25	133.65	-8.90	0.064
150.00	0.00	-4.14	0.00	-9.33	0.00	9.33	659.19	329.60	401.19	198.13	134.58	-8.91	0.047

Site Number: 302494

Code: ANSI/TIA-222-G

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Site Name: Hddm - Haddam, CT

Engineering Number: OAA713049_C3_01

9/26/2017 3:57:30 PM

Customer: AT&T MOBILITY

89.50	-15.96	-1.19	0.00	-52.24	0.00	52.24	1,387.20	693.60	1,384.25	683.63	3.57	-0.40	0.043
90.00	-15.85	-1.19	0.00	-51.64	0.00	51.64	1,384.32	692.16	1,376.86	679.98	3.62	-0.40	0.042
90.50	-15.75	-1.18	0.00	-51.05	0.00	51.05	1,381.42	690.71	1,369.48	676.33	3.66	-0.41	0.042
91.00	-15.64	-1.18	0.00	-50.46	0.00	50.46	1,378.52	689.26	1,362.10	672.69	3.70	-0.41	0.042
91.50	-15.53	-1.18	0.00	-49.87	0.00	49.87	1,375.61	687.80	1,354.74	669.06	3.74	-0.41	0.041
92.00	-15.43	-1.17	0.00	-49.28	0.00	49.28	1,372.68	686.34	1,347.39	665.42	3.79	-0.41	0.041
92.50	-15.32	-1.17	0.00	-48.69	0.00	48.69	1,369.75	684.87	1,340.04	661.80	3.83	-0.42	0.041
93.00	-15.21	-1.16	0.00	-48.11	0.00	48.11	1,366.80	683.40	1,332.70	658.17	3.87	-0.42	0.040
93.50	-15.11	-1.16	0.00	-47.53	0.00	47.53	1,363.85	681.92	1,325.38	654.55	3.92	-0.42	0.040
94.00	-15.00	-1.16	0.00	-46.95	0.00	46.95	1,360.88	680.44	1,318.06	650.94	3.96	-0.42	0.040
94.50	-14.90	-1.15	0.00	-46.37	0.00	46.37	1,357.90	678.95	1,310.75	647.33	4.01	-0.42	0.039
95.00	-14.79	-1.15	0.00	-45.79	0.00	45.79	1,354.92	677.46	1,303.45	643.72	4.05	-0.43	0.039
95.50	-14.68	-1.14	0.00	-45.22	0.00	45.22	1,351.92	675.96	1,296.16	640.12	4.10	-0.43	0.039
96.00	-14.58	-1.14	0.00	-44.65	0.00	44.65	1,348.91	674.46	1,288.88	636.53	4.14	-0.43	0.038
96.50	-14.47	-1.14	0.00	-44.08	0.00	44.08	1,345.89	672.95	1,281.61	632.94	4.19	-0.43	0.038
97.00	-14.37	-1.13	0.00	-43.51	0.00	43.51	1,342.86	671.43	1,274.35	629.35	4.23	-0.44	0.038
97.50	-14.26	-1.13	0.00	-42.94	0.00	42.94	1,339.82	669.91	1,267.09	625.77	4.28	-0.44	0.037
98.00	-14.16	-1.12	0.00	-42.38	0.00	42.38	1,336.78	668.39	1,259.85	622.19	4.32	-0.44	0.037
98.50	-14.05	-1.12	0.00	-41.82	0.00	41.82	1,333.72	666.86	1,252.62	618.62	4.37	-0.44	0.037
99.00	-13.95	-1.11	0.00	-41.26	0.00	41.26	1,330.65	665.32	1,245.40	615.06	4.42	-0.45	0.036
99.50	-13.84	-1.11	0.00	-40.70	0.00	40.70	1,327.57	663.78	1,238.19	611.50	4.46	-0.45	0.036
100.00	-13.74	-1.10	0.00	-40.15	0.00	40.15	1,324.47	662.24	1,230.99	607.94	4.51	-0.45	0.036
100.50	-13.64	-1.10	0.00	-39.60	0.00	39.60	1,321.37	660.69	1,223.80	604.39	4.56	-0.45	0.035
101.00	-13.53	-1.10	0.00	-39.05	0.00	39.05	1,318.26	659.13	1,216.62	600.84	4.61	-0.45	0.035
101.50	-13.43	-1.09	0.00	-38.50	0.00	38.50	1,315.14	657.57	1,209.45	597.30	4.65	-0.46	0.035
102.00	-13.32	-1.09	0.00	-37.96	0.00	37.96	1,312.01	656.00	1,202.30	593.77	4.70	-0.46	0.034
102.50	-13.22	-1.08	0.00	-37.41	0.00	37.41	1,308.86	654.43	1,195.15	590.24	4.75	-0.46	0.034
103.00	-13.12	-1.08	0.00	-36.87	0.00	36.87	1,305.71	652.86	1,188.02	586.72	4.80	-0.46	0.034
103.50	-13.01	-1.07	0.00	-36.33	0.00	36.33	1,302.55	651.27	1,180.89	583.20	4.85	-0.47	0.033
104.00	-12.91	-1.07	0.00	-35.80	0.00	35.80	1,299.37	649.69	1,173.78	579.69	4.89	-0.47	0.033
104.50	-12.81	-1.06	0.00	-35.27	0.00	35.27	1,296.19	648.09	1,166.68	576.18	4.94	-0.47	0.032
105.00	-12.70	-1.06	0.00	-34.73	0.00	34.73	1,292.99	646.50	1,159.59	572.68	4.99	-0.47	0.032
105.50	-12.60	-1.05	0.00	-34.21	0.00	34.21	1,289.88	644.49	1,151.78	568.82	5.04	-0.47	0.032
106.00	-12.50	-1.05	0.00	-33.68	0.00	33.68	1,286.33	642.16	1,143.44	564.70	5.09	-0.48	0.031
106.50	-12.39	-1.04	0.00	-33.16	0.00	33.16	1,279.68	639.84	1,135.13	560.60	5.14	-0.48	0.031
107.00	-12.29	-1.04	0.00	-32.64	0.00	32.64	1,275.03	637.51	1,126.85	556.51	5.19	-0.48	0.031
107.50	-12.19	-1.03	0.00	-32.12	0.00	32.12	1,270.38	635.19	1,118.60	552.44	5.24	-0.48	0.031
108.00	-12.09	-1.03	0.00	-31.60	0.00	31.60	1,265.73	632.87	1,110.38	548.38	5.29	-0.48	0.030
108.50	-11.98	-1.02	0.00	-31.09	0.00	31.09	1,261.08	630.54	1,102.19	544.33	5.34	-0.49	0.030
109.00	-11.88	-1.01	0.00	-30.58	0.00	30.58	1,256.43	628.22	1,094.04	540.30	5.40	-0.49	0.030
109.50	-11.78	-1.01	0.00	-30.08	0.00	30.08	1,251.78	625.89	1,085.91	536.29	5.45	-0.49	0.029
110.00	-11.70	-1.00	0.00	-29.57	0.00	29.57	1,247.14	623.57	1,077.81	532.29	5.50	-0.49	0.029
110.00	-11.70	-1.00	0.00	-29.57	0.00	29.57	853.24	426.62	741.79	366.34	5.50	-0.49	0.000
110.50	-11.61	-1.00	0.00	-29.07	0.00	29.07	851.46	425.73	737.46	364.21	5.55	-0.49	0.040
111.00	-11.53	-1.00	0.00	-28.57	0.00	28.57	849.67	424.84	733.15	362.07	5.60	-0.50	0.040
111.50	-11.44	-0.99	0.00	-28.07	0.00	28.07	847.87	423.94	728.83	359.94	5.65	-0.50	0.039
112.00	-11.36	-0.99	0.00	-27.58	0.00	27.58	846.07	423.03	724.52	357.81	5.71	-0.50	0.039
112.50	-11.27	-0.98	0.00	-27.08	0.00	27.08	844.25	422.12	720.21	355.68	5.76	-0.50	0.038
113.00	-11.19	-0.98	0.00	-26.59	0.00	26.59	842.42	421.21	715.90	353.56	5.81	-0.51	0.038
113.50	-11.10	-0.97	0.00	-26.10	0.00	26.10	840.58	420.29	711.60	351.43	5.86	-0.51	0.037
114.00	-11.02	-0.97	0.00	-25.62	0.00	25.62	838.73	419.36	707.30	349.31	5.92	-0.51	0.037
114.50	-10.94	-0.96	0.00	-25.13	0.00	25.13	836.87	418.43	703.00	347.19	5.97	-0.51	0.036
115.00	-10.85	-0.96	0.00	-24.65	0.00	24.65	834.99	417.50	698.71	345.06	6.02	-0.51	0.036
115.50	-10.77	-0.95	0.00	-24.18	0.00	24.18	833.11	416.56	694.42	342.95	6.08	-0.52	0.035
116.00	-10.68	-0.95	0.00	-23.70	0.00	23.70	831.22	415.61	690.13	340.83	6.13	-0.52	0.035
116.50	-10.63	-0.94	0.00	-23.22	0.00	23.22	829.32	414.66	685.85	338.71	6.19	-0.52	0.034
116.50	-10.63	-0.94	0.00	-23.22	0.00	23.22	829.32	414.66	685.85	338.71	6.19	-0.52	0.081
117.00	-10.58	-0.94	0.00	-22.75	0.00	22.75	827.41	413.70	681.57	336.60	6.24	-0.52	0.080
117.50	-10.53	-0.94	0.00	-22.28	0.00	22.28	825.48	412.74	677.29	334.49	6.30	-0.53	0.079
118.00	-10.48	-0.94	0.00	-21.81	0.00	21.81	823.55	411.77	673.02	332.38	6.35	-0.53	0.078
118.50	-10.42	-0.93	0.00	-21.34	0.00	21.34	821.61	410.80	668.75	330.27	6.41	-0.54	0.077
119.00	-10.37	-0.93	0.00	-20.88	0.00	20.88	819.65	409.83	664.49	328.17	6.47	-0.54	0.076
119.50	-10.32	-0.93	0.00	-20.41	0.00	20.41	817.69	408.84	660.23	326.06	6.52	-0.55	0.075
120.00	-10.27	-0.93	0.00	-19.95	0.00	19.95	815.71	407.86	655.98	323.96	6.58	-0.55	0.074

Site Number: 302494

Code: ANSI/TIA-222-G

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Site Name: Hddm - Haddam, CT

Engineering Number: OAA713049_C3_01

9/26/2017 3:57:30 PM

Customer: AT&T MOBILITY

120.50	-10.22	-0.92	0.00	-19.48	0.00	19.48	813.73	406.86	651.73	321.87	6.64	-0.56	0.073
121.00	-10.17	-0.92	0.00	-19.02	0.00	19.02	811.73	405.86	647.49	319.77	6.70	-0.56	0.072
121.50	-10.12	-0.92	0.00	-18.56	0.00	18.56	809.72	404.86	643.25	317.68	6.76	-0.57	0.071
122.00	-10.06	-0.92	0.00	-18.10	0.00	18.10	807.71	403.85	639.01	315.58	6.82	-0.57	0.070
122.50	-10.01	-0.91	0.00	-17.64	0.00	17.64	805.68	402.84	634.78	313.49	6.88	-0.58	0.069
123.00	-9.96	-0.91	0.00	-17.19	0.00	17.19	803.64	401.82	630.56	311.41	6.94	-0.58	0.068
123.50	-9.91	-0.91	0.00	-16.73	0.00	16.73	801.59	400.80	626.34	309.32	7.00	-0.59	0.066
124.00	-9.86	-0.90	0.00	-16.28	0.00	16.28	799.54	399.77	622.12	307.24	7.06	-0.59	0.065
124.50	-9.81	-0.90	0.00	-15.83	0.00	15.83	797.47	398.73	617.91	305.16	7.12	-0.60	0.064
125.00	-9.76	-0.90	0.00	-15.37	0.00	15.37	795.39	397.69	613.71	303.09	7.19	-0.60	0.063
125.50	-9.71	-0.90	0.00	-14.93	0.00	14.93	793.30	396.65	609.51	301.01	7.25	-0.60	0.062
126.00	-9.66	-0.89	0.00	-14.48	0.00	14.48	791.20	395.60	605.32	298.94	7.31	-0.61	0.061
126.50	-9.61	-0.89	0.00	-14.03	0.00	14.03	789.09	394.54	601.13	296.88	7.38	-0.61	0.059
127.00	-9.56	-0.89	0.00	-13.59	0.00	13.59	786.97	393.48	596.95	294.81	7.44	-0.62	0.058
127.50	-9.51	-0.88	0.00	-13.14	0.00	13.14	784.84	392.42	592.78	292.75	7.51	-0.62	0.057
128.00	-9.46	-0.88	0.00	-12.70	0.00	12.70	782.69	391.35	588.61	290.69	7.57	-0.62	0.056
128.50	-9.41	-0.88	0.00	-12.26	0.00	12.26	780.54	390.27	584.44	288.64	7.64	-0.63	0.055
129.00	-9.36	-0.87	0.00	-11.83	0.00	11.83	778.38	389.19	580.29	286.58	7.70	-0.63	0.053
129.50	-9.31	-0.87	0.00	-11.39	0.00	11.39	776.21	388.10	576.14	284.53	7.77	-0.64	0.052
130.00	-9.26	-0.87	0.00	-10.95	0.00	10.95	774.02	387.01	572.00	282.49	7.84	-0.64	0.051
130.50	-9.21	-0.86	0.00	-10.52	0.00	10.52	771.83	385.91	567.86	280.44	7.90	-0.64	0.049
131.00	-5.97	-0.60	0.00	-10.09	0.00	10.09	769.63	384.81	563.73	278.40	7.97	-0.65	0.044
131.50	-5.93	-0.60	0.00	-9.79	0.00	9.79	767.41	383.71	559.60	276.37	8.04	-0.65	0.043
132.00	-5.88	-0.59	0.00	-9.49	0.00	9.49	765.19	382.59	555.49	274.33	8.11	-0.65	0.042
132.50	-5.84	-0.59	0.00	-9.20	0.00	9.20	762.95	381.48	551.38	272.31	8.18	-0.66	0.041
133.00	-5.80	-0.59	0.00	-8.90	0.00	8.90	760.71	380.35	547.28	270.28	8.25	-0.66	0.041
133.50	-5.75	-0.58	0.00	-8.61	0.00	8.61	758.45	379.23	543.18	268.26	8.31	-0.66	0.040
134.00	-5.71	-0.58	0.00	-8.32	0.00	8.32	756.18	378.09	539.09	266.24	8.38	-0.66	0.039
134.50	-5.67	-0.58	0.00	-8.03	0.00	8.03	753.91	376.95	535.01	264.22	8.45	-0.67	0.038
135.00	-5.62	-0.57	0.00	-7.74	0.00	7.74	751.62	375.81	530.94	262.21	8.52	-0.67	0.037
135.50	-5.58	-0.57	0.00	-7.46	0.00	7.46	749.32	374.66	526.87	260.20	8.59	-0.67	0.036
136.00	-5.54	-0.57	0.00	-7.17	0.00	7.17	747.01	373.51	522.82	258.20	8.66	-0.68	0.035
136.50	-5.50	-0.56	0.00	-6.89	0.00	6.89	744.70	372.35	518.77	256.20	8.74	-0.68	0.034
137.00	-5.45	-0.56	0.00	-6.61	0.00	6.61	742.37	371.18	514.72	254.20	8.81	-0.68	0.033
137.50	-5.41	-0.55	0.00	-6.33	0.00	6.33	740.03	370.01	510.69	252.21	8.88	-0.68	0.032
138.00	-5.37	-0.55	0.00	-6.05	0.00	6.05	737.68	368.84	506.66	250.22	8.95	-0.69	0.031
138.50	-5.33	-0.55	0.00	-5.78	0.00	5.78	735.32	367.66	502.65	248.24	9.02	-0.69	0.031
139.00	-5.28	-0.54	0.00	-5.50	0.00	5.50	732.95	366.47	498.64	246.26	9.09	-0.69	0.030
139.50	-5.24	-0.54	0.00	-5.23	0.00	5.23	730.57	365.28	494.64	244.28	9.17	-0.69	0.029
140.00	-5.20	-0.54	0.00	-4.96	0.00	4.96	728.18	364.09	490.64	242.31	9.24	-0.70	0.028
140.50	-5.16	-0.53	0.00	-4.69	0.00	4.69	725.44	362.72	486.44	240.23	9.31	-0.70	0.027
141.00	-5.04	-0.52	0.00	-4.42	0.00	4.42	721.95	360.98	481.74	237.92	9.39	-0.70	0.026
141.50	-5.00	-0.52	0.00	-4.16	0.00	4.16	718.47	359.23	477.08	235.61	9.46	-0.70	0.025
142.00	-4.96	-0.52	0.00	-3.90	0.00	3.90	714.98	357.49	472.43	233.32	9.53	-0.70	0.024
142.50	-4.92	-0.51	0.00	-3.65	0.00	3.65	711.49	355.75	467.81	231.03	9.61	-0.70	0.023
143.00	-4.89	-0.51	0.00	-3.39	0.00	3.39	708.01	354.00	463.21	228.76	9.68	-0.71	0.022
143.50	-4.85	-0.50	0.00	-3.14	0.00	3.14	704.52	352.26	458.63	226.50	9.75	-0.71	0.021
144.00	-4.81	-0.50	0.00	-2.88	0.00	2.88	701.03	350.52	454.07	224.25	9.83	-0.71	0.020
144.50	-4.77	-0.50	0.00	-2.63	0.00	2.63	697.55	348.77	449.54	222.01	9.90	-0.71	0.019
145.00	-4.73	-0.49	0.00	-2.39	0.00	2.39	694.06	347.03	445.03	219.78	9.98	-0.71	0.018
145.50	-4.70	-0.49	0.00	-2.14	0.00	2.14	690.57	345.29	440.55	217.57	10.05	-0.71	0.017
146.00	-4.66	-0.49	0.00	-1.89	0.00	1.89	687.09	343.54	436.08	215.36	10.13	-0.71	0.016
146.50	-4.62	-0.48	0.00	-1.65	0.00	1.65	683.60	341.80	431.64	213.17	10.20	-0.71	0.015
147.00	-4.58	-0.48	0.00	-1.41	0.00	1.41	680.11	340.06	427.22	210.99	10.28	-0.72	0.013
147.50	-4.55	-0.48	0.00	-1.17	0.00	1.17	676.63	338.31	422.83	208.82	10.35	-0.72	0.012
148.00	-4.51	-0.47	0.00	-0.93	0.00	0.93	673.14	336.57	418.45	206.66	10.43	-0.72	0.011
148.50	-4.47	-0.47	0.00	-0.70	0.00	0.70	669.65	334.83	414.10	204.51	10.50	-0.72	0.010
149.00	-4.44	-0.46	0.00	-0.46	0.00	0.46	666.16	333.08	409.78	202.37	10.58	-0.72	0.009
149.50	-4.40	-0.46	0.00	-0.23	0.00	0.23	662.68	331.34	405.47	200.25	10.65	-0.72	0.008
150.00	0.00	-0.41	0.00	0.00	0.00	0.00	659.19	329.60	401.19	198.13	10.73	-0.72	0.000

Site Number: 302494

Code: ANSI/TIA-222-G

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Site Name: Hddm - Haddam, CT

Engineering Number: OAA713049_C3_01

9/26/2017 3:57:30 PM

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	-29.52	-1.34	0.00	-168.26	0.00	168.26	3,157.17	1,578.58	4,812.28	2,376.61	0.00	0.00	0.049
0.50	-29.42	-1.34	0.00	-167.59	0.00	167.59	3,152.93	1,576.47	4,795.55	2,368.34	0.00	0.00	0.049
1.00	-29.31	-1.34	0.00	-166.92	0.00	166.92	3,148.69	1,574.34	4,778.83	2,360.09	0.00	0.00	0.049
1.50	-29.21	-1.34	0.00	-166.26	0.00	166.26	3,144.43	1,572.22	4,762.13	2,351.84	0.00	-0.01	0.049
2.00	-29.11	-1.34	0.00	-165.59	0.00	165.59	3,140.17	1,570.08	4,745.43	2,343.59	0.00	-0.01	0.049
2.50	-29.00	-1.34	0.00	-164.92	0.00	164.92	3,135.89	1,567.94	4,728.75	2,335.35	0.00	-0.01	0.049
3.00	-28.90	-1.34	0.00	-164.25	0.00	164.25	3,131.60	1,565.80	4,712.08	2,327.12	0.00	-0.01	0.049
3.50	-28.80	-1.34	0.00	-163.58	0.00	163.58	3,127.31	1,563.65	4,695.42	2,318.89	0.00	-0.01	0.049
4.00	-28.69	-1.34	0.00	-162.91	0.00	162.91	3,123.00	1,561.50	4,678.77	2,310.67	0.01	-0.02	0.049
4.50	-28.59	-1.34	0.00	-162.23	0.00	162.23	3,118.68	1,559.34	4,662.14	2,302.45	0.01	-0.02	0.048
5.00	-28.49	-1.34	0.00	-161.56	0.00	161.56	3,114.35	1,557.18	4,645.51	2,294.24	0.01	-0.02	0.048
5.50	-28.38	-1.35	0.00	-160.89	0.00	160.89	3,110.02	1,555.01	4,628.91	2,286.04	0.01	-0.02	0.048
6.00	-28.28	-1.35	0.00	-160.22	0.00	160.22	3,105.67	1,552.83	4,612.31	2,277.85	0.01	-0.02	0.048
6.50	-28.18	-1.35	0.00	-159.54	0.00	159.54	3,101.31	1,550.65	4,595.73	2,269.66	0.02	-0.02	0.048
7.00	-28.08	-1.35	0.00	-158.87	0.00	158.87	3,096.94	1,548.47	4,579.16	2,261.47	0.02	-0.03	0.048
7.50	-27.98	-1.35	0.00	-158.20	0.00	158.20	3,092.56	1,546.28	4,562.60	2,253.30	0.02	-0.03	0.048
8.00	-27.86	-1.35	0.00	-157.52	0.00	157.52	3,088.17	1,544.08	4,546.06	2,245.13	0.03	-0.03	0.048
8.50	-27.74	-1.35	0.00	-156.85	0.00	156.85	3,083.77	1,541.88	4,529.53	2,236.96	0.03	-0.03	0.048
9.00	-27.62	-1.35	0.00	-156.17	0.00	156.17	3,079.36	1,539.68	4,513.01	2,228.81	0.03	-0.03	0.048
9.50	-27.50	-1.35	0.00	-155.50	0.00	155.50	3,074.94	1,537.47	4,496.51	2,220.66	0.04	-0.04	0.048
10.00	-27.38	-1.35	0.00	-154.82	0.00	154.82	3,070.50	1,535.25	4,480.02	2,212.51	0.04	-0.04	0.048
10.50	-27.26	-1.35	0.00	-154.14	0.00	154.14	3,066.06	1,533.03	4,463.54	2,204.38	0.04	-0.04	0.047
11.00	-27.14	-1.35	0.00	-153.47	0.00	153.47	3,061.61	1,530.80	4,447.08	2,196.25	0.05	-0.04	0.047
11.50	-27.02	-1.36	0.00	-152.79	0.00	152.79	3,057.15	1,528.57	4,430.63	2,188.12	0.05	-0.04	0.047
12.00	-26.90	-1.36	0.00	-152.11	0.00	152.11	3,052.67	1,526.34	4,414.20	2,180.01	0.06	-0.05	0.047
12.50	-26.78	-1.36	0.00	-151.43	0.00	151.43	3,048.19	1,524.09	4,397.78	2,171.90	0.06	-0.05	0.047
13.00	-26.66	-1.36	0.00	-150.75	0.00	150.75	3,043.69	1,521.85	4,381.37	2,163.80	0.07	-0.05	0.047
13.50	-26.54	-1.36	0.00	-150.08	0.00	150.08	3,039.19	1,519.59	4,364.98	2,155.70	0.07	-0.05	0.047
14.00	-26.42	-1.36	0.00	-149.40	0.00	149.40	3,034.67	1,517.34	4,348.61	2,147.61	0.08	-0.05	0.047
14.50	-26.30	-1.36	0.00	-148.72	0.00	148.72	3,030.15	1,515.07	4,332.24	2,139.53	0.08	-0.06	0.047
15.00	-26.18	-1.36	0.00	-148.04	0.00	148.04	3,025.61	1,512.81	4,315.90	2,131.46	0.09	-0.06	0.047
15.50	-26.07	-1.36	0.00	-147.36	0.00	147.36	3,021.07	1,510.53	4,299.57	2,123.39	0.10	-0.06	0.047
16.00	-25.95	-1.36	0.00	-146.68	0.00	146.68	3,016.51	1,508.25	4,283.25	2,115.33	0.10	-0.06	0.046
16.50	-25.83	-1.36	0.00	-146.00	0.00	146.00	3,011.94	1,505.97	4,266.95	2,107.28	0.11	-0.06	0.046
17.00	-25.71	-1.36	0.00	-145.32	0.00	145.32	3,007.37	1,503.68	4,250.66	2,099.24	0.12	-0.07	0.046
17.50	-25.59	-1.36	0.00	-144.64	0.00	144.64	3,002.78	1,501.39	4,234.39	2,091.20	0.12	-0.07	0.046
18.00	-25.48	-1.36	0.00	-143.95	0.00	143.95	2,998.18	1,499.09	4,218.13	2,083.18	0.13	-0.07	0.046
18.50	-25.36	-1.36	0.00	-143.27	0.00	143.27	2,993.57	1,496.79	4,201.89	2,075.15	0.14	-0.07	0.046
19.00	-25.24	-1.36	0.00	-142.59	0.00	142.59	2,988.95	1,494.48	4,185.66	2,067.14	0.14	-0.07	0.046
19.50	-25.12	-1.36	0.00	-141.91	0.00	141.91	2,984.32	1,492.16	4,169.45	2,059.13	0.15	-0.07	0.046
20.00	-25.01	-1.36	0.00	-141.23	0.00	141.23	2,979.68	1,489.84	4,153.25	2,051.14	0.16	-0.08	0.046
20.50	-24.89	-1.37	0.00	-140.54	0.00	140.54	2,975.03	1,487.52	4,137.08	2,043.15	0.17	-0.08	0.046
21.00	-24.77	-1.37	0.00	-139.86	0.00	139.86	2,970.37	1,485.19	4,120.91	2,035.16	0.18	-0.08	0.045
21.50	-24.66	-1.37	0.00	-139.18	0.00	139.18	2,965.70	1,482.85	4,104.77	2,027.19	0.19	-0.08	0.045
22.00	-24.54	-1.37	0.00	-138.50	0.00	138.50	2,961.02	1,480.51	4,088.63	2,019.22	0.19	-0.08	0.045
22.50	-24.42	-1.37	0.00	-137.81	0.00	137.81	2,956.33	1,478.16	4,072.52	2,011.26	0.20	-0.09	0.045
23.00	-24.31	-1.37	0.00	-137.13	0.00	137.13	2,951.62	1,475.81	4,056.42	2,003.31	0.21	-0.09	0.045
23.50	-24.19	-1.37	0.00	-136.45	0.00	136.45	2,946.91	1,473.46	4,040.34	1,995.37	0.22	-0.09	0.045
24.00	-24.07	-1.37	0.00	-135.76	0.00	135.76	2,942.19	1,471.09	4,024.27	1,987.44	0.23	-0.09	0.045
24.50	-23.96	-1.37	0.00	-135.08	0.00	135.08	2,937.46	1,468.73	4,008.22	1,979.51	0.24	-0.09	0.045
25.00	-23.84	-1.37	0.00	-134.39	0.00	134.39	2,932.71	1,466.36	3,992.19	1,971.59	0.25	-0.10	0.045
25.50	-23.73	-1.37	0.00	-133.71	0.00	133.71	2,927.96	1,463.98	3,976.18	1,963.68	0.26	-0.10	0.044
26.00	-23.61	-1.37	0.00	-133.03	0.00	133.03	2,923.19	1,461.60	3,960.18	1,955.78	0.27	-0.10	0.044
26.50	-23.50	-1.37	0.00	-132.34	0.00	132.34	2,918.42	1,459.21	3,944.20	1,947.89	0.28	-0.10	0.044
27.00	-23.38	-1.37	0.00	-131.66	0.00	131.66	2,913.63	1,456.82	3,928.23	1,940.01	0.29	-0.10	0.044
27.50	-23.27	-1.37	0.00	-130.97	0.00	130.97	2,910.08	1,455.04	3,913.96	1,932.96	0.30	-0.11	0.044

Site Number: 302494

Code: ANSI/TIA-222-G

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Site Name: Hddm - Haddam, CT

Engineering Number: OAA713049_C3_01

9/26/2017 3:57:30 PM

Customer: AT&T MOBILITY

28.00	-23.15	-1.37	0.00	-130.29	0.00	130.29	2,903.11	1,451.55	3,895.11	1,923.65	0.32	-0.11	0.044
28.50	-23.04	-1.37	0.00	-129.60	0.00	129.60	2,896.13	1,448.07	3,876.32	1,914.37	0.33	-0.11	0.044
29.00	-22.92	-1.37	0.00	-128.92	0.00	128.92	2,889.16	1,444.58	3,857.57	1,905.11	0.34	-0.11	0.044
29.50	-22.81	-1.37	0.00	-128.24	0.00	128.24	2,882.19	1,441.09	3,838.86	1,895.87	0.35	-0.11	0.044
30.00	-22.69	-1.37	0.00	-127.55	0.00	127.55	2,875.21	1,437.61	3,820.20	1,886.65	0.36	-0.12	0.044
30.50	-22.58	-1.37	0.00	-126.87	0.00	126.87	2,868.24	1,434.12	3,801.59	1,877.46	0.38	-0.12	0.044
31.00	-22.46	-1.37	0.00	-126.18	0.00	126.18	2,861.26	1,430.63	3,783.02	1,868.29	0.39	-0.12	0.043
31.50	-22.30	-1.37	0.00	-125.50	0.00	125.50	2,854.29	1,427.15	3,764.50	1,859.14	0.40	-0.12	0.043
32.00	-22.14	-1.37	0.00	-124.82	0.00	124.82	2,847.32	1,423.66	3,746.02	1,850.02	0.41	-0.12	0.043
32.50	-21.98	-1.37	0.00	-124.13	0.00	124.13	2,840.34	1,420.17	3,727.58	1,840.91	0.43	-0.13	0.043
33.00	-21.82	-1.37	0.00	-123.45	0.00	123.45	2,833.37	1,416.69	3,709.20	1,831.83	0.44	-0.13	0.042
33.50	-21.66	-1.37	0.00	-122.76	0.00	122.76	2,826.40	1,413.20	3,690.85	1,822.77	0.45	-0.13	0.042
34.00	-21.50	-1.36	0.00	-122.08	0.00	122.08	2,819.42	1,409.71	3,672.56	1,813.74	0.47	-0.13	0.042
34.50	-21.33	-1.36	0.00	-121.40	0.00	121.40	2,812.45	1,406.22	3,654.31	1,804.72	0.48	-0.13	0.042
35.00	-21.17	-1.36	0.00	-120.72	0.00	120.72	2,805.48	1,402.74	3,636.10	1,795.73	0.50	-0.14	0.042
35.50	-21.12	-1.36	0.00	-120.04	0.00	120.04	2,798.50	1,399.25	3,617.94	1,786.76	0.51	-0.14	0.042
35.67	-21.05	-1.36	0.00	-119.81	0.00	119.81	2,248.07	1,124.03	2,973.91	1,468.70	0.51	-0.14	0.048
36.00	-20.95	-1.36	0.00	-119.35	0.00	119.35	2,245.83	1,122.91	2,966.06	1,464.83	0.52	-0.14	0.048
36.50	-20.91	-1.36	0.00	-118.67	0.00	118.67	2,242.46	1,121.23	2,954.30	1,459.02	0.54	-0.14	0.048
36.67	-20.85	-1.36	0.00	-118.44	0.00	118.44	2,241.31	1,120.65	2,950.31	1,457.05	0.54	-0.14	0.048
36.67	-20.85	-1.36	0.00	-118.44	0.00	118.44	2,241.31	1,120.65	2,950.31	1,457.05	0.54	-0.14	0.052
37.00	-20.75	-1.36	0.00	-117.99	0.00	117.99	2,239.08	1,119.54	2,942.55	1,453.22	0.55	-0.14	0.051
37.50	-20.65	-1.36	0.00	-117.31	0.00	117.31	2,235.69	1,117.84	2,930.81	1,447.42	0.57	-0.15	0.051
38.00	-20.55	-1.36	0.00	-116.63	0.00	116.63	2,232.29	1,116.14	2,919.08	1,441.62	0.59	-0.15	0.051
38.50	-20.45	-1.36	0.00	-115.95	0.00	115.95	2,228.88	1,114.44	2,907.36	1,435.83	0.60	-0.15	0.051
39.00	-20.35	-1.36	0.00	-115.27	0.00	115.27	2,225.46	1,112.73	2,895.64	1,430.05	0.62	-0.15	0.051
39.50	-20.26	-1.36	0.00	-114.59	0.00	114.59	2,222.03	1,111.01	2,883.93	1,424.27	0.63	-0.16	0.051
40.00	-20.16	-1.36	0.00	-113.91	0.00	113.91	2,218.59	1,109.29	2,872.23	1,418.49	0.65	-0.16	0.051
40.50	-20.06	-1.36	0.00	-113.23	0.00	113.23	2,215.14	1,107.57	2,860.55	1,412.72	0.67	-0.16	0.050
41.00	-19.96	-1.36	0.00	-112.55	0.00	112.55	2,211.67	1,105.84	2,848.87	1,406.95	0.68	-0.16	0.050
41.50	-19.86	-1.36	0.00	-111.87	0.00	111.87	2,208.20	1,104.10	2,837.20	1,401.18	0.70	-0.17	0.050
42.00	-19.77	-1.36	0.00	-111.19	0.00	111.19	2,204.72	1,102.36	2,825.53	1,395.42	0.72	-0.17	0.050
42.50	-19.67	-1.36	0.00	-110.51	0.00	110.51	2,201.23	1,100.61	2,813.88	1,389.67	0.74	-0.17	0.050
43.00	-19.57	-1.36	0.00	-109.83	0.00	109.83	2,197.72	1,098.86	2,802.24	1,383.92	0.75	-0.17	0.050
43.50	-19.47	-1.36	0.00	-109.15	0.00	109.15	2,194.21	1,097.10	2,790.61	1,378.18	0.77	-0.17	0.049
44.00	-19.38	-1.36	0.00	-108.48	0.00	108.48	2,190.68	1,095.34	2,778.98	1,372.44	0.79	-0.18	0.049
44.50	-19.28	-1.36	0.00	-107.80	0.00	107.80	2,187.15	1,093.57	2,767.37	1,366.70	0.81	-0.18	0.049
45.00	-19.18	-1.35	0.00	-107.12	0.00	107.12	2,183.60	1,091.80	2,755.77	1,360.97	0.83	-0.18	0.049
45.50	-19.09	-1.35	0.00	-106.44	0.00	106.44	2,180.05	1,090.02	2,744.17	1,355.24	0.85	-0.18	0.049
46.00	-18.99	-1.35	0.00	-105.77	0.00	105.77	2,176.48	1,088.24	2,732.59	1,349.52	0.87	-0.19	0.048
46.50	-18.89	-1.35	0.00	-105.09	0.00	105.09	2,172.91	1,086.45	2,721.02	1,343.81	0.89	-0.19	0.048
47.00	-18.80	-1.35	0.00	-104.42	0.00	104.42	2,169.32	1,084.66	2,709.45	1,338.10	0.91	-0.19	0.048
47.50	-18.70	-1.35	0.00	-103.74	0.00	103.74	2,165.72	1,082.86	2,697.90	1,332.39	0.93	-0.19	0.048
48.00	-18.60	-1.35	0.00	-103.06	0.00	103.06	2,162.11	1,081.06	2,686.36	1,326.69	0.95	-0.19	0.048
48.50	-18.51	-1.35	0.00	-102.39	0.00	102.39	2,158.50	1,079.25	2,674.83	1,321.00	0.97	-0.20	0.048
49.00	-18.41	-1.35	0.00	-101.72	0.00	101.72	2,154.87	1,077.43	2,663.31	1,315.31	0.99	-0.20	0.047
49.50	-18.32	-1.35	0.00	-101.04	0.00	101.04	2,151.23	1,075.61	2,651.80	1,309.62	1.01	-0.20	0.047
50.00	-18.13	-1.34	0.00	-100.37	0.00	100.37	2,147.58	1,073.79	2,640.30	1,303.95	1.03	-0.20	0.047
50.50	-18.04	-1.34	0.00	-99.70	0.00	99.70	2,143.92	1,071.96	2,628.81	1,298.27	1.05	-0.21	0.047
51.00	-17.94	-1.34	0.00	-99.03	0.00	99.03	2,140.25	1,070.13	2,617.34	1,292.60	1.07	-0.21	0.047
51.50	-17.85	-1.34	0.00	-98.35	0.00	98.35	2,136.57	1,068.29	2,605.87	1,286.94	1.10	-0.21	0.047
52.00	-17.75	-1.34	0.00	-97.68	0.00	97.68	2,132.88	1,066.44	2,594.42	1,281.29	1.12	-0.21	0.046
52.50	-17.66	-1.34	0.00	-97.01	0.00	97.01	2,129.18	1,064.59	2,582.98	1,275.64	1.14	-0.22	0.046
53.00	-17.56	-1.34	0.00	-96.35	0.00	96.35	2,125.47	1,062.73	2,571.55	1,269.99	1.16	-0.22	0.046
53.50	-17.47	-1.34	0.00	-95.68	0.00	95.68	2,121.75	1,060.87	2,560.13	1,264.35	1.19	-0.22	0.046
54.00	-17.37	-1.33	0.00	-95.01	0.00	95.01	2,118.01	1,059.01	2,548.72	1,258.72	1.21	-0.22	0.046
54.50	-17.28	-1.33	0.00	-94.34	0.00	94.34	2,114.27	1,057.14	2,537.32	1,253.09	1.23	-0.22	0.045
55.00	-17.18	-1.33	0.00	-93.68	0.00	93.68	2,110.52	1,055.26	2,525.94	1,247.47	1.26	-0.23	0.045
55.50	-17.09	-1.33	0.00	-93.01	0.00	93.01	2,106.75	1,053.38	2,514.57	1,241.85	1.28	-0.23	0.045
56.00	-16.99	-1.33	0.00	-92.34	0.00	92.34	2,102.98	1,051.49	2,503.21	1,236.24	1.30	-0.23	0.045
56.50	-16.90	-1.33	0.00	-91.68	0.00	91.68	2,099.20	1,049.60	2,491.86	1,230.64	1.33	-0.23	0.045
57.00	-16.80	-1.33	0.00	-91.02	0.00	91.02	2,095.40	1,047.70	2,480.53	1,225.04	1.35	-0.24	0.045
57.50	-16.71	-1.32	0.00	-90.35	0.00	90.35	2,091.60	1,045.80	2,469.21	1,219.45	1.38	-0.24	0.044
58.00	-16.62	-1.32	0.00	-89.69	0.00	89.69	2,087.78	1,043.89	2,457.90	1,213.86	1.40	-0.24	0.044

Site Number: 302494

Code: ANSI/TIA-222-G

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Site Name: Hddm - Haddam, CT

Engineering Number: OAA713049_C3_01

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Customer: AT&T MOBILITY

58.50	-16.52	-1.32	0.00	-89.03	0.00	89.03	2,083.96	1,041.98	2,446.60	1,208.28	1.43	-0.24	0.044
59.00	-16.43	-1.32	0.00	-88.37	0.00	88.37	2,080.12	1,040.06	2,435.32	1,202.71	1.45	-0.25	0.044
59.50	-16.34	-1.32	0.00	-87.71	0.00	87.71	2,076.27	1,038.14	2,424.04	1,197.14	1.48	-0.25	0.044
60.00	-16.24	-1.32	0.00	-87.05	0.00	87.05	2,072.41	1,036.21	2,412.79	1,191.58	1.51	-0.25	0.043
60.50	-16.15	-1.31	0.00	-86.39	0.00	86.39	2,068.55	1,034.27	2,401.54	1,186.03	1.53	-0.25	0.043
61.00	-16.06	-1.31	0.00	-85.74	0.00	85.74	2,064.67	1,032.33	2,390.31	1,180.48	1.56	-0.25	0.043
61.50	-15.96	-1.31	0.00	-85.08	0.00	85.08	2,060.78	1,030.39	2,379.09	1,174.94	1.58	-0.26	0.043
62.00	-15.87	-1.31	0.00	-84.42	0.00	84.42	2,056.88	1,028.44	2,367.88	1,169.41	1.61	-0.26	0.043
62.50	-15.78	-1.31	0.00	-83.77	0.00	83.77	2,052.97	1,026.49	2,356.69	1,163.88	1.64	-0.26	0.042
63.00	-15.69	-1.30	0.00	-83.12	0.00	83.12	2,049.05	1,024.53	2,345.51	1,158.36	1.67	-0.26	0.042
63.50	-15.59	-1.30	0.00	-82.46	0.00	82.46	2,045.12	1,022.56	2,334.35	1,152.85	1.69	-0.27	0.042
64.00	-15.50	-1.30	0.00	-81.81	0.00	81.81	2,041.18	1,020.59	2,323.20	1,147.34	1.72	-0.27	0.042
64.50	-15.41	-1.30	0.00	-81.16	0.00	81.16	2,037.23	1,018.62	2,312.06	1,141.84	1.75	-0.27	0.042
65.00	-15.32	-1.30	0.00	-80.51	0.00	80.51	2,033.27	1,016.64	2,300.94	1,136.35	1.78	-0.27	0.041
65.50	-15.22	-1.29	0.00	-79.86	0.00	79.86	2,029.30	1,014.65	2,289.83	1,130.86	1.81	-0.27	0.041
66.00	-15.13	-1.29	0.00	-79.22	0.00	79.22	2,025.32	1,012.66	2,278.74	1,125.38	1.84	-0.28	0.041
66.50	-15.04	-1.29	0.00	-78.57	0.00	78.57	2,021.33	1,010.66	2,267.65	1,119.91	1.87	-0.28	0.041
67.00	-14.95	-1.29	0.00	-77.93	0.00	77.93	2,016.97	1,008.48	2,256.19	1,114.25	1.89	-0.28	0.041
67.50	-14.86	-1.29	0.00	-77.28	0.00	77.28	2,011.16	1,005.58	2,243.13	1,107.80	1.92	-0.28	0.040
68.00	-14.77	-1.28	0.00	-76.64	0.00	76.64	2,005.34	1,002.67	2,230.12	1,101.37	1.95	-0.29	0.040
68.50	-14.67	-1.28	0.00	-76.00	0.00	76.00	1,999.53	999.77	2,217.14	1,094.96	1.98	-0.29	0.040
69.00	-14.58	-1.28	0.00	-75.36	0.00	75.36	1,993.72	996.86	2,204.19	1,088.57	2.01	-0.29	0.040
69.50	-14.49	-1.28	0.00	-74.72	0.00	74.72	1,987.91	993.96	2,191.29	1,082.20	2.04	-0.29	0.040
70.00	-14.37	-1.27	0.00	-74.08	0.00	74.08	1,982.10	991.05	2,178.42	1,075.84	2.08	-0.29	0.040
70.50	-14.25	-1.27	0.00	-73.45	0.00	73.45	1,976.29	988.14	2,165.59	1,069.51	2.11	-0.30	0.039
71.00	-14.12	-1.26	0.00	-72.81	0.00	72.81	1,970.48	985.24	2,152.80	1,063.19	2.14	-0.30	0.039
71.50	-14.00	-1.26	0.00	-72.18	0.00	72.18	1,964.67	982.33	2,140.05	1,056.89	2.17	-0.30	0.038
72.00	-13.88	-1.26	0.00	-71.55	0.00	71.55	1,958.85	979.43	2,127.34	1,050.61	2.20	-0.30	0.038
72.50	-13.76	-1.25	0.00	-70.92	0.00	70.92	1,953.04	976.52	2,114.66	1,044.35	2.23	-0.31	0.038
73.00	-13.68	-1.25	0.00	-70.30	0.00	70.30	1,947.23	973.62	2,102.02	1,038.11	2.26	-0.31	0.038
73.33	-13.64	-1.25	0.00	-69.88	0.00	69.88	1,943.40	971.70	2,093.70	1,034.00	2.29	-0.31	0.038
73.33	-13.64	-1.25	0.00	-69.88	0.00	69.88	1,943.40	971.70	2,093.70	1,034.00	2.29	-0.31	0.041
73.50	-13.56	-1.25	0.00	-69.67	0.00	69.67	1,473.96	736.98	1,624.57	802.32	2.30	-0.31	0.049
74.00	-13.48	-1.24	0.00	-69.05	0.00	69.05	1,471.41	735.71	1,616.97	798.56	2.33	-0.31	0.049
74.50	-13.40	-1.24	0.00	-68.42	0.00	68.42	1,468.85	734.43	1,609.36	794.80	2.36	-0.31	0.049
75.00	-13.33	-1.24	0.00	-67.80	0.00	67.80	1,466.28	733.14	1,601.77	791.05	2.40	-0.32	0.048
75.50	-13.25	-1.24	0.00	-67.18	0.00	67.18	1,463.70	731.85	1,594.18	787.30	2.43	-0.32	0.048
76.00	-13.17	-1.23	0.00	-66.57	0.00	66.57	1,461.11	730.55	1,586.59	783.56	2.46	-0.32	0.048
76.50	-13.09	-1.23	0.00	-65.95	0.00	65.95	1,458.51	729.25	1,579.01	779.81	2.50	-0.32	0.047
77.00	-13.02	-1.23	0.00	-65.33	0.00	65.33	1,455.89	727.95	1,571.44	776.07	2.53	-0.33	0.047
77.50	-12.94	-1.23	0.00	-64.72	0.00	64.72	1,453.27	726.64	1,563.87	772.34	2.57	-0.33	0.047
78.00	-12.86	-1.22	0.00	-64.10	0.00	64.10	1,450.64	725.32	1,556.31	768.60	2.60	-0.33	0.047
78.50	-12.79	-1.22	0.00	-63.49	0.00	63.49	1,447.99	724.00	1,548.75	764.87	2.63	-0.33	0.046
79.00	-12.71	-1.22	0.00	-62.88	0.00	62.88	1,445.34	722.67	1,541.20	761.14	2.67	-0.34	0.046
79.50	-12.63	-1.22	0.00	-62.27	0.00	62.27	1,442.68	721.34	1,533.65	757.41	2.71	-0.34	0.046
80.00	-12.56	-1.21	0.00	-61.66	0.00	61.66	1,440.00	720.00	1,526.12	753.69	2.74	-0.34	0.045
80.50	-12.48	-1.21	0.00	-61.06	0.00	61.06	1,437.32	718.66	1,518.59	749.97	2.78	-0.34	0.045
81.00	-12.40	-1.21	0.00	-60.45	0.00	60.45	1,434.62	717.31	1,511.06	746.26	2.81	-0.35	0.045
81.50	-12.33	-1.20	0.00	-59.85	0.00	59.85	1,431.91	715.96	1,503.54	742.54	2.85	-0.35	0.044
82.00	-12.25	-1.20	0.00	-59.25	0.00	59.25	1,429.20	714.60	1,496.03	738.83	2.89	-0.35	0.044
82.50	-12.18	-1.20	0.00	-58.64	0.00	58.64	1,426.47	713.23	1,488.53	735.13	2.92	-0.35	0.044
83.00	-12.10	-1.20	0.00	-58.05	0.00	58.05	1,423.73	711.87	1,481.03	731.43	2.96	-0.36	0.044
83.50	-12.02	-1.19	0.00	-57.45	0.00	57.45	1,420.98	710.49	1,473.54	727.73	3.00	-0.36	0.043
84.00	-11.95	-1.19	0.00	-56.85	0.00	56.85	1,418.23	709.11	1,466.06	724.03	3.04	-0.36	0.043
84.50	-11.87	-1.19	0.00	-56.26	0.00	56.26	1,415.46	707.73	1,458.58	720.34	3.07	-0.36	0.043
85.00	-11.80	-1.18	0.00	-55.66	0.00	55.66	1,412.68	706.34	1,451.11	716.65	3.11	-0.37	0.042
85.50	-11.72	-1.18	0.00	-55.07	0.00	55.07	1,409.89	704.94	1,443.65	712.97	3.15	-0.37	0.042
86.00	-11.65	-1.18	0.00	-54.48	0.00	54.48	1,407.09	703.54	1,436.20	709.28	3.19	-0.37	0.042
86.50	-11.57	-1.17	0.00	-53.89	0.00	53.89	1,404.28	702.14	1,428.75	705.61	3.23	-0.37	0.041
87.00	-11.50	-1.17	0.00	-53.31	0.00	53.31	1,401.46	700.73	1,421.32	701.93	3.27	-0.38	0.041
87.50	-11.42	-1.17	0.00	-52.72	0.00	52.72	1,398.63	699.31	1,413.89	698.26	3.31	-0.38	0.041
88.00	-11.35	-1.16	0.00	-52.14	0.00	52.14	1,395.79	697.89	1,406.46	694.60	3.35	-0.38	0.041
88.50	-11.27	-1.16	0.00	-51.56	0.00	51.56	1,392.93	696.47	1,399.05	690.94	3.39	-0.38	0.040
89.00	-11.20	-1.16	0.00	-50.98	0.00	50.98	1,390.07	695.04	1,391.64	687.28	3.43	-0.39	0.040

Site Number: 302494

Code: ANSI/TIA-222-G

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Site Name: Hddm - Haddam, CT

Engineering Number: OAA713049_C3_01

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89.50	-11.12	-1.15	0.00	-50.40	0.00	50.40	1,387.20	693.60	1,384.25	683.63	3.47	-0.39	0.040
90.00	-11.05	-1.15	0.00	-49.82	0.00	49.82	1,384.32	692.16	1,376.86	679.98	3.51	-0.39	0.039
90.50	-10.97	-1.15	0.00	-49.25	0.00	49.25	1,381.42	690.71	1,369.48	676.33	3.55	-0.39	0.039
91.00	-10.90	-1.14	0.00	-48.67	0.00	48.67	1,378.52	689.26	1,362.10	672.69	3.59	-0.40	0.039
91.50	-10.82	-1.14	0.00	-48.10	0.00	48.10	1,375.61	687.80	1,354.74	669.06	3.63	-0.40	0.038
92.00	-10.75	-1.13	0.00	-47.53	0.00	47.53	1,372.68	686.34	1,347.39	665.42	3.68	-0.40	0.038
92.50	-10.67	-1.13	0.00	-46.97	0.00	46.97	1,369.75	684.87	1,340.04	661.80	3.72	-0.40	0.038
93.00	-10.60	-1.13	0.00	-46.40	0.00	46.40	1,366.80	683.40	1,332.70	658.17	3.76	-0.40	0.037
93.50	-10.53	-1.12	0.00	-45.84	0.00	45.84	1,363.85	681.92	1,325.38	654.55	3.80	-0.41	0.037
94.00	-10.45	-1.12	0.00	-45.28	0.00	45.28	1,360.88	680.44	1,318.06	650.94	3.85	-0.41	0.037
94.50	-10.38	-1.11	0.00	-44.72	0.00	44.72	1,357.90	678.95	1,310.75	647.33	3.89	-0.41	0.036
95.00	-10.30	-1.11	0.00	-44.16	0.00	44.16	1,354.92	677.46	1,303.45	643.72	3.93	-0.41	0.036
95.50	-10.23	-1.11	0.00	-43.60	0.00	43.60	1,351.92	675.96	1,296.16	640.12	3.98	-0.42	0.036
96.00	-10.16	-1.10	0.00	-43.05	0.00	43.05	1,348.91	674.46	1,288.88	636.53	4.02	-0.42	0.036
96.50	-10.08	-1.10	0.00	-42.50	0.00	42.50	1,345.89	672.95	1,281.61	632.94	4.06	-0.42	0.035
97.00	-10.01	-1.09	0.00	-41.95	0.00	41.95	1,342.86	671.43	1,274.35	629.35	4.11	-0.42	0.035
97.50	-9.94	-1.09	0.00	-41.40	0.00	41.40	1,339.82	669.91	1,267.09	625.77	4.15	-0.42	0.035
98.00	-9.86	-1.09	0.00	-40.86	0.00	40.86	1,336.78	668.39	1,259.85	622.19	4.20	-0.43	0.034
98.50	-9.79	-1.08	0.00	-40.32	0.00	40.32	1,333.72	666.86	1,252.62	618.62	4.24	-0.43	0.034
99.00	-9.72	-1.08	0.00	-39.78	0.00	39.78	1,330.65	665.32	1,245.40	615.06	4.29	-0.43	0.034
99.50	-9.65	-1.07	0.00	-39.24	0.00	39.24	1,327.57	663.78	1,238.19	611.50	4.33	-0.43	0.033
100.00	-9.57	-1.07	0.00	-38.70	0.00	38.70	1,324.47	662.24	1,230.99	607.94	4.38	-0.44	0.033
100.50	-9.50	-1.06	0.00	-38.17	0.00	38.17	1,321.37	660.69	1,223.80	604.39	4.42	-0.44	0.033
101.00	-9.43	-1.06	0.00	-37.63	0.00	37.63	1,318.26	659.13	1,216.62	600.84	4.47	-0.44	0.032
101.50	-9.36	-1.05	0.00	-37.11	0.00	37.11	1,315.14	657.57	1,209.45	597.30	4.52	-0.44	0.032
102.00	-9.28	-1.05	0.00	-36.58	0.00	36.58	1,312.01	656.00	1,202.30	593.77	4.56	-0.44	0.032
102.50	-9.21	-1.05	0.00	-36.05	0.00	36.05	1,308.86	654.43	1,195.15	590.24	4.61	-0.45	0.031
103.00	-9.14	-1.04	0.00	-35.53	0.00	35.53	1,305.71	652.86	1,188.02	586.72	4.66	-0.45	0.031
103.50	-9.07	-1.04	0.00	-35.01	0.00	35.01	1,302.55	651.27	1,180.89	583.20	4.70	-0.45	0.031
104.00	-8.99	-1.03	0.00	-34.49	0.00	34.49	1,299.37	649.69	1,173.78	579.69	4.75	-0.45	0.030
104.50	-8.92	-1.03	0.00	-33.98	0.00	33.98	1,296.19	648.09	1,166.68	576.18	4.80	-0.45	0.030
105.00	-8.85	-1.02	0.00	-33.46	0.00	33.46	1,292.99	646.50	1,159.59	572.68	4.84	-0.46	0.030
105.50	-8.78	-1.02	0.00	-32.95	0.00	32.95	1,289.88	644.49	1,151.78	568.82	4.89	-0.46	0.029
106.00	-8.71	-1.01	0.00	-32.45	0.00	32.45	1,284.33	642.16	1,143.44	564.70	4.94	-0.46	0.029
106.50	-8.64	-1.01	0.00	-31.94	0.00	31.94	1,279.68	639.84	1,135.13	560.60	4.99	-0.46	0.029
107.00	-8.56	-1.00	0.00	-31.44	0.00	31.44	1,275.03	637.51	1,126.85	556.51	5.04	-0.46	0.028
107.50	-8.49	-1.00	0.00	-30.94	0.00	30.94	1,270.38	635.19	1,118.60	552.44	5.09	-0.47	0.028
108.00	-8.42	-0.99	0.00	-30.44	0.00	30.44	1,265.73	632.87	1,110.38	548.38	5.14	-0.47	0.028
108.50	-8.35	-0.99	0.00	-29.94	0.00	29.94	1,261.08	630.54	1,102.19	544.33	5.18	-0.47	0.028
109.00	-8.28	-0.98	0.00	-29.45	0.00	29.45	1,256.43	628.22	1,094.04	540.30	5.23	-0.47	0.027
109.50	-8.21	-0.97	0.00	-28.96	0.00	28.96	1,251.78	625.89	1,085.91	536.29	5.28	-0.47	0.027
110.00	-8.15	-0.97	0.00	-28.47	0.00	28.47	1,247.14	623.57	1,077.81	532.29	5.33	-0.48	0.027
110.00	-8.15	-0.97	0.00	-28.47	0.00	28.47	853.24	426.62	741.79	366.34	5.33	-0.48	0.000
110.50	-8.09	-0.97	0.00	-27.99	0.00	27.99	851.46	425.73	737.46	364.21	5.38	-0.48	0.037
111.00	-8.03	-0.96	0.00	-27.51	0.00	27.51	849.67	424.84	733.15	362.07	5.43	-0.48	0.037
111.50	-7.97	-0.96	0.00	-27.02	0.00	27.02	847.87	423.94	728.83	359.94	5.48	-0.48	0.036
112.00	-7.91	-0.95	0.00	-26.55	0.00	26.55	846.07	423.03	724.52	357.81	5.53	-0.48	0.036
112.50	-7.85	-0.95	0.00	-26.07	0.00	26.07	844.25	422.12	720.21	355.68	5.59	-0.49	0.035
113.00	-7.79	-0.94	0.00	-25.60	0.00	25.60	842.42	421.21	715.90	353.56	5.64	-0.49	0.035
113.50	-7.74	-0.94	0.00	-25.12	0.00	25.12	840.58	420.29	711.60	351.43	5.69	-0.49	0.034
114.00	-7.68	-0.93	0.00	-24.65	0.00	24.65	838.73	419.36	707.30	349.31	5.74	-0.49	0.034
114.50	-7.62	-0.93	0.00	-24.19	0.00	24.19	836.87	418.43	703.00	347.19	5.79	-0.50	0.033
115.00	-7.56	-0.92	0.00	-23.72	0.00	23.72	834.99	417.50	698.71	345.06	5.84	-0.50	0.033
115.50	-7.50	-0.92	0.00	-23.26	0.00	23.26	833.11	416.56	694.42	342.95	5.90	-0.50	0.032
116.00	-7.44	-0.92	0.00	-22.80	0.00	22.80	831.22	415.61	690.13	340.83	5.95	-0.50	0.032
116.50	-7.41	-0.91	0.00	-22.34	0.00	22.34	829.32	414.66	685.85	338.71	6.00	-0.50	0.031
116.50	-7.41	-0.91	0.00	-22.34	0.00	22.34	829.32	414.66	685.85	338.71	6.00	-0.50	0.075
117.00	-7.37	-0.91	0.00	-21.89	0.00	21.89	827.41	413.70	681.57	336.60	6.05	-0.51	0.074
117.50	-7.33	-0.91	0.00	-21.43	0.00	21.43	825.48	412.74	677.29	334.49	6.11	-0.51	0.073
118.00	-7.30	-0.90	0.00	-20.98	0.00	20.98	823.55	411.77	673.02	332.38	6.16	-0.52	0.072
118.50	-7.26	-0.90	0.00	-20.53	0.00	20.53	821.61	410.80	668.75	330.27	6.22	-0.52	0.071
119.00	-7.23	-0.90	0.00	-20.08	0.00	20.08	819.65	409.83	664.49	328.17	6.27	-0.53	0.070
119.50	-7.19	-0.90	0.00	-19.63	0.00	19.63	817.69	408.84	660.23	326.06	6.33	-0.53	0.069
120.00	-7.15	-0.89	0.00	-19.18	0.00	19.18	815.71	407.86	655.98	323.96	6.38	-0.54	0.068

Site Number: 302494

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Site Name: Hddm - Haddam, CT

Engineering Number: OAA713049_C3_01

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120.50	-7.12	-0.89	0.00	-18.73	0.00	18.73	813.73	406.86	651.73	321.87	6.44	-0.54	0.067
121.00	-7.08	-0.89	0.00	-18.29	0.00	18.29	811.73	405.86	647.49	319.77	6.50	-0.55	0.066
121.50	-7.05	-0.88	0.00	-17.84	0.00	17.84	809.72	404.86	643.25	317.68	6.55	-0.55	0.065
122.00	-7.01	-0.88	0.00	-17.40	0.00	17.40	807.71	403.85	639.01	315.58	6.61	-0.55	0.064
122.50	-6.98	-0.88	0.00	-16.96	0.00	16.96	805.68	402.84	634.78	313.49	6.67	-0.56	0.063
123.00	-6.94	-0.88	0.00	-16.52	0.00	16.52	803.64	401.82	630.56	311.41	6.73	-0.56	0.062
123.50	-6.91	-0.87	0.00	-16.08	0.00	16.08	801.59	400.80	626.34	309.32	6.79	-0.57	0.061
124.00	-6.87	-0.87	0.00	-15.65	0.00	15.65	799.54	399.77	622.12	307.24	6.85	-0.57	0.060
124.50	-6.84	-0.87	0.00	-15.21	0.00	15.21	797.47	398.73	617.91	305.16	6.91	-0.58	0.058
125.00	-6.80	-0.86	0.00	-14.78	0.00	14.78	795.39	397.69	613.71	303.09	6.97	-0.58	0.057
125.50	-6.76	-0.86	0.00	-14.34	0.00	14.34	793.30	396.65	609.51	301.01	7.03	-0.58	0.056
126.00	-6.73	-0.86	0.00	-13.91	0.00	13.91	791.20	395.60	605.32	298.94	7.09	-0.59	0.055
126.50	-6.69	-0.85	0.00	-13.49	0.00	13.49	789.09	394.54	601.13	296.88	7.15	-0.59	0.054
127.00	-6.66	-0.85	0.00	-13.06	0.00	13.06	786.97	393.48	596.95	294.81	7.21	-0.60	0.053
127.50	-6.63	-0.85	0.00	-12.63	0.00	12.63	784.84	392.42	592.78	292.75	7.28	-0.60	0.052
128.00	-6.59	-0.85	0.00	-12.21	0.00	12.21	782.69	391.35	588.61	290.69	7.34	-0.60	0.050
128.50	-6.56	-0.84	0.00	-11.79	0.00	11.79	780.54	390.27	584.44	288.64	7.40	-0.61	0.049
129.00	-6.52	-0.84	0.00	-11.36	0.00	11.36	778.38	389.19	580.29	286.58	7.47	-0.61	0.048
129.50	-6.49	-0.84	0.00	-10.95	0.00	10.95	776.21	388.10	576.14	284.53	7.53	-0.61	0.047
130.00	-6.45	-0.83	0.00	-10.53	0.00	10.53	774.02	387.01	572.00	282.49	7.60	-0.62	0.046
130.50	-6.42	-0.83	0.00	-10.11	0.00	10.11	771.83	385.91	567.86	280.44	7.66	-0.62	0.044
131.00	-4.16	-0.58	0.00	-9.70	0.00	9.70	769.63	384.81	563.73	278.40	7.73	-0.62	0.040
131.50	-4.13	-0.57	0.00	-9.41	0.00	9.41	767.41	383.71	559.60	276.37	7.79	-0.63	0.039
132.00	-4.10	-0.57	0.00	-9.12	0.00	9.12	765.19	382.59	555.49	274.33	7.86	-0.63	0.039
132.50	-4.07	-0.57	0.00	-8.84	0.00	8.84	762.95	381.48	551.38	272.31	7.92	-0.63	0.038
133.00	-4.04	-0.56	0.00	-8.56	0.00	8.56	760.71	380.35	547.28	270.28	7.99	-0.64	0.037
133.50	-4.01	-0.56	0.00	-8.27	0.00	8.27	758.45	379.23	543.18	268.26	8.06	-0.64	0.036
134.00	-3.98	-0.56	0.00	-7.99	0.00	7.99	756.18	378.09	539.09	266.24	8.12	-0.64	0.035
134.50	-3.95	-0.55	0.00	-7.72	0.00	7.72	753.91	376.95	535.01	264.22	8.19	-0.65	0.034
135.00	-3.92	-0.55	0.00	-7.44	0.00	7.44	751.62	375.81	530.94	262.21	8.26	-0.65	0.034
135.50	-3.89	-0.55	0.00	-7.16	0.00	7.16	749.32	374.66	526.87	260.20	8.33	-0.65	0.033
136.00	-3.86	-0.54	0.00	-6.89	0.00	6.89	747.01	373.51	522.82	258.20	8.40	-0.65	0.032
136.50	-3.83	-0.54	0.00	-6.62	0.00	6.62	744.70	372.35	518.77	256.20	8.46	-0.66	0.031
137.00	-3.80	-0.54	0.00	-6.35	0.00	6.35	742.37	371.18	514.72	254.20	8.53	-0.66	0.030
137.50	-3.77	-0.53	0.00	-6.08	0.00	6.08	740.03	370.01	510.69	252.21	8.60	-0.66	0.029
138.00	-3.74	-0.53	0.00	-5.81	0.00	5.81	737.68	368.84	506.66	250.22	8.67	-0.66	0.028
138.50	-3.71	-0.53	0.00	-5.55	0.00	5.55	735.32	367.66	502.65	248.24	8.74	-0.67	0.027
139.00	-3.68	-0.52	0.00	-5.29	0.00	5.29	732.95	366.47	498.64	246.26	8.81	-0.67	0.026
139.50	-3.65	-0.52	0.00	-5.02	0.00	5.02	730.57	365.28	494.64	244.28	8.88	-0.67	0.026
140.00	-3.62	-0.52	0.00	-4.76	0.00	4.76	728.18	364.09	490.64	242.31	8.95	-0.67	0.025
140.50	-3.59	-0.51	0.00	-4.51	0.00	4.51	725.44	362.72	486.44	240.23	9.02	-0.67	0.024
141.00	-3.51	-0.50	0.00	-4.25	0.00	4.25	721.95	360.98	481.74	237.92	9.09	-0.68	0.023
141.50	-3.48	-0.50	0.00	-4.00	0.00	4.00	718.47	359.23	477.08	235.61	9.16	-0.68	0.022
142.00	-3.46	-0.49	0.00	-3.75	0.00	3.75	714.98	357.49	472.43	233.32	9.23	-0.68	0.021
142.50	-3.43	-0.49	0.00	-3.50	0.00	3.50	711.49	355.75	467.81	231.03	9.31	-0.68	0.020
143.00	-3.40	-0.49	0.00	-3.26	0.00	3.26	708.01	354.00	463.21	228.76	9.38	-0.68	0.019
143.50	-3.38	-0.48	0.00	-3.01	0.00	3.01	704.52	352.26	458.63	226.50	9.45	-0.68	0.018
144.00	-3.35	-0.48	0.00	-2.77	0.00	2.77	701.03	350.52	454.07	224.25	9.52	-0.68	0.017
144.50	-3.32	-0.48	0.00	-2.53	0.00	2.53	697.55	348.77	449.54	222.01	9.59	-0.69	0.016
145.00	-3.30	-0.47	0.00	-2.29	0.00	2.29	694.06	347.03	445.03	219.78	9.66	-0.69	0.015
145.50	-3.27	-0.47	0.00	-2.05	0.00	2.05	690.57	345.29	440.55	217.57	9.74	-0.69	0.014
146.00	-3.25	-0.47	0.00	-1.82	0.00	1.82	687.09	343.54	436.08	215.36	9.81	-0.69	0.013
146.50	-3.22	-0.46	0.00	-1.59	0.00	1.59	683.60	341.80	431.64	213.17	9.88	-0.69	0.012
147.00	-3.19	-0.46	0.00	-1.35	0.00	1.35	680.11	340.06	427.22	210.99	9.95	-0.69	0.011
147.50	-3.17	-0.46	0.00	-1.12	0.00	1.12	676.63	338.31	422.83	208.82	10.03	-0.69	0.010
148.00	-3.14	-0.45	0.00	-0.90	0.00	0.90	673.14	336.57	418.45	206.66	10.10	-0.69	0.009
148.50	-3.12	-0.45	0.00	-0.67	0.00	0.67	669.65	334.83	414.10	204.51	10.17	-0.69	0.008
149.00	-3.09	-0.45	0.00	-0.44	0.00	0.44	666.16	333.08	409.78	202.37	10.24	-0.69	0.007
149.50	-3.06	-0.44	0.00	-0.22	0.00	0.22	662.68	331.34	405.47	200.25	10.32	-0.69	0.006
150.00	0.00	-0.41	0.00	0.00	0.00	0.00	659.19	329.60	401.19	198.13	10.39	-0.69	0.000

Site Number: 302494

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Site Name: Hddm - Haddam, CT

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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):	0.18
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}):	0.19
Design Spectral Response Acceleration at 1.0 Second Period (S_{d1}):	0.10
Period Based on Rayleigh Method (sec):	2.90
Redundancy Factor (p):	1.30

Load Case $(1.2 + 0.2S_{ds}) * DL + E$ EMAM Seismic Equivalent Modal Analysis Method

Segment	Height Above Base (ft)	Weight (lb)	a	b	c	Saz	Horizontal Force (lb)	Vertical Force (lb)
303	149.75	30	1.884	1.947	1.128	0.350	9	37
302	149.25	30	1.871	1.882	1.105	0.342	9	37
301	148.75	30	1.859	1.819	1.081	0.334	9	37
300	148.25	30	1.846	1.757	1.059	0.326	9	37
299	147.75	30	1.834	1.696	1.036	0.319	8	37
298	147.25	30	1.821	1.637	1.014	0.311	8	37
297	146.75	30	1.809	1.580	0.993	0.304	8	37
296	146.25	30	1.797	1.523	0.972	0.296	8	38
295	145.75	30	1.784	1.469	0.951	0.289	8	38
294	145.25	31	1.772	1.415	0.930	0.282	7	38
293	144.75	31	1.760	1.363	0.910	0.275	7	38
292	144.25	31	1.748	1.312	0.890	0.267	7	38
291	143.75	31	1.736	1.263	0.871	0.260	7	38
290	143.25	31	1.724	1.214	0.851	0.254	7	38
289	142.75	31	1.712	1.167	0.833	0.247	7	38
288	142.25	31	1.700	1.121	0.814	0.240	6	38
287	141.75	31	1.688	1.077	0.796	0.233	6	38
286	141.25	31	1.676	1.033	0.778	0.227	6	39
285	140.75	34	1.664	0.991	0.761	0.220	6	42
284	140.25	34	1.652	0.950	0.743	0.214	6	42
283	139.75	34	1.641	0.909	0.726	0.207	6	42
282	139.25	34	1.629	0.870	0.710	0.201	6	42
281	138.75	34	1.617	0.832	0.694	0.195	6	42
280	138.25	34	1.605	0.796	0.678	0.189	6	42
279	137.75	34	1.594	0.760	0.662	0.183	5	42
278	137.25	34	1.582	0.725	0.646	0.177	5	42
277	136.75	34	1.571	0.691	0.631	0.171	5	43
276	136.25	34	1.559	0.658	0.616	0.165	5	43
275	135.75	35	1.548	0.626	0.602	0.159	5	43
274	135.25	35	1.537	0.595	0.587	0.154	5	43
273	134.75	35	1.525	0.565	0.573	0.148	4	43
272	134.25	35	1.514	0.536	0.560	0.143	4	43
271	133.75	35	1.503	0.508	0.546	0.137	4	43
270	133.25	35	1.491	0.480	0.533	0.132	4	43

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269	132.75	35	1.480	0.454	0.520	0.127	4	43
268	132.25	35	1.469	0.428	0.507	0.122	4	43
267	131.75	35	1.458	0.403	0.494	0.116	4	44
266	131.25	35	1.447	0.379	0.482	0.111	3	44
265	130.75	40	1.436	0.356	0.470	0.106	4	49
264	130.25	40	1.425	0.333	0.458	0.102	4	49
263	129.75	40	1.414	0.311	0.447	0.097	3	50
262	129.25	40	1.403	0.290	0.435	0.092	3	50
261	128.75	40	1.392	0.270	0.424	0.087	3	50
260	128.25	40	1.382	0.250	0.413	0.083	3	50
259	127.75	40	1.371	0.231	0.402	0.078	3	50
258	127.25	40	1.360	0.213	0.392	0.074	3	50
257	126.75	40	1.350	0.195	0.382	0.070	2	50
256	126.25	41	1.339	0.178	0.372	0.065	2	50
255	125.75	41	1.328	0.162	0.362	0.061	2	50
254	125.25	41	1.318	0.146	0.352	0.057	2	50
253	124.75	41	1.307	0.131	0.343	0.053	2	51
252	124.25	41	1.297	0.116	0.333	0.049	2	51
251	123.75	41	1.286	0.102	0.324	0.045	2	51
250	123.25	41	1.276	0.089	0.315	0.041	1	51
249	122.75	41	1.266	0.076	0.307	0.038	1	51
248	122.25	41	1.255	0.063	0.298	0.034	1	51
247	121.75	41	1.245	0.052	0.290	0.030	1	51
246	121.25	41	1.235	0.040	0.282	0.027	1	51
245	120.75	41	1.225	0.029	0.274	0.023	1	51
244	120.25	42	1.215	0.019	0.266	0.020	1	51
243	119.75	42	1.205	0.009	0.258	0.017	1	52
242	119.25	42	1.195	0.000	0.251	0.013	0	52
241	118.75	42	1.185	-0.009	0.243	0.010	0	52
240	118.25	42	1.175	-0.018	0.236	0.007	0	52
239	117.75	42	1.165	-0.026	0.229	0.004	0	52
238	117.25	42	1.155	-0.034	0.222	0.001	0	52
237	116.75	42	1.145	-0.041	0.216	-0.002	0	52
236	116.25	68	1.135	-0.048	0.209	-0.004	0	84
235	115.75	68	1.125	-0.054	0.203	-0.007	0	84
234	115.25	68	1.116	-0.061	0.197	-0.010	-1	84
233	114.75	68	1.106	-0.066	0.191	-0.012	-1	84
232	114.25	68	1.096	-0.072	0.185	-0.015	-1	84
231	113.75	68	1.087	-0.077	0.179	-0.017	-1	84
230	113.25	68	1.077	-0.082	0.173	-0.019	-1	84
229	112.75	68	1.068	-0.086	0.168	-0.022	-1	84
228	112.25	68	1.058	-0.090	0.162	-0.024	-1	85
227	111.75	68	1.049	-0.094	0.157	-0.026	-2	85
226	111.25	69	1.040	-0.098	0.152	-0.028	-2	85
225	110.75	69	1.030	-0.101	0.147	-0.030	-2	85
224	110.25	69	1.021	-0.104	0.142	-0.032	-2	85
223	109.75	82	1.012	-0.107	0.137	-0.034	-2	102
222	109.25	82	1.003	-0.109	0.133	-0.036	-3	102
221	108.75	83	0.993	-0.111	0.128	-0.037	-3	102
220	108.25	83	0.984	-0.113	0.124	-0.039	-3	102
219	107.75	83	0.975	-0.115	0.119	-0.040	-3	102
218	107.25	83	0.966	-0.117	0.115	-0.042	-3	103
217	106.75	83	0.957	-0.118	0.111	-0.043	-3	103
216	106.25	83	0.948	-0.119	0.107	-0.045	-3	103
215	105.75	83	0.939	-0.120	0.103	-0.046	-3	103
214	105.25	83	0.931	-0.121	0.100	-0.047	-3	103
213	104.75	83	0.922	-0.121	0.096	-0.048	-3	103
212	104.25	84	0.913	-0.122	0.092	-0.049	-4	103
211	103.75	84	0.904	-0.122	0.089	-0.050	-4	103
210	103.25	84	0.895	-0.122	0.086	-0.051	-4	104
209	102.75	84	0.887	-0.122	0.082	-0.052	-4	104
208	102.25	84	0.878	-0.121	0.079	-0.052	-4	104
207	101.75	84	0.870	-0.121	0.076	-0.053	-4	104
206	101.25	84	0.861	-0.120	0.073	-0.053	-4	104

Site Number: 302494

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205	100.75	84	0.853	-0.119	0.070	-0.054	-4	104
204	100.25	84	0.844	-0.119	0.067	-0.054	-4	104
203	99.75	84	0.836	-0.118	0.065	-0.055	-4	105
202	99.25	85	0.827	-0.116	0.062	-0.055	-4	105
201	98.75	85	0.819	-0.115	0.059	-0.055	-4	105
200	98.25	85	0.811	-0.114	0.057	-0.055	-4	105
199	97.75	85	0.803	-0.112	0.055	-0.055	-4	105
198	97.25	85	0.794	-0.111	0.052	-0.055	-4	105
197	96.75	85	0.786	-0.109	0.050	-0.055	-4	105
196	96.25	85	0.778	-0.108	0.048	-0.055	-4	105
195	95.75	85	0.770	-0.106	0.046	-0.054	-4	106
194	95.25	85	0.762	-0.104	0.044	-0.054	-4	106
193	94.75	86	0.754	-0.102	0.042	-0.054	-4	106
192	94.25	86	0.746	-0.100	0.040	-0.053	-4	106
191	93.75	86	0.738	-0.098	0.038	-0.052	-4	106
190	93.25	86	0.730	-0.096	0.036	-0.052	-4	106
189	92.75	86	0.723	-0.094	0.034	-0.051	-4	106
188	92.25	86	0.715	-0.091	0.033	-0.050	-4	107
187	91.75	86	0.707	-0.089	0.031	-0.049	-4	107
186	91.25	86	0.699	-0.087	0.030	-0.048	-4	107
185	90.75	86	0.692	-0.084	0.028	-0.047	-4	107
184	90.25	87	0.684	-0.082	0.027	-0.046	-3	107
183	89.75	87	0.677	-0.080	0.026	-0.045	-3	107
182	89.25	87	0.669	-0.077	0.024	-0.044	-3	107
181	88.75	87	0.662	-0.075	0.023	-0.043	-3	107
180	88.25	87	0.654	-0.072	0.022	-0.041	-3	108
179	87.75	87	0.647	-0.070	0.021	-0.040	-3	108
178	87.25	87	0.639	-0.067	0.020	-0.038	-3	108
177	86.75	87	0.632	-0.064	0.019	-0.037	-3	108
176	86.25	87	0.625	-0.062	0.018	-0.035	-3	108
175	85.75	87	0.618	-0.059	0.017	-0.033	-3	108
174	85.25	88	0.610	-0.057	0.016	-0.032	-2	108
173	84.75	88	0.603	-0.054	0.015	-0.030	-2	109
172	84.25	88	0.596	-0.052	0.014	-0.028	-2	109
171	83.75	88	0.589	-0.049	0.013	-0.026	-2	109
170	83.25	88	0.582	-0.046	0.013	-0.025	-2	109
169	82.75	88	0.575	-0.044	0.012	-0.023	-2	109
168	82.25	88	0.568	-0.041	0.011	-0.021	-2	109
167	81.75	88	0.561	-0.039	0.011	-0.019	-1	109
166	81.25	88	0.555	-0.036	0.010	-0.017	-1	109
165	80.75	89	0.548	-0.034	0.010	-0.015	-1	110
164	80.25	89	0.541	-0.031	0.009	-0.013	-1	110
163	79.75	89	0.534	-0.029	0.009	-0.011	-1	110
162	79.25	89	0.528	-0.026	0.008	-0.009	-1	110
161	78.75	89	0.521	-0.024	0.008	-0.007	-1	110
160	78.25	89	0.514	-0.021	0.008	-0.005	0	110
159	77.75	89	0.508	-0.019	0.007	-0.002	0	110
158	77.25	89	0.501	-0.017	0.007	0.000	0	111
157	76.75	89	0.495	-0.014	0.007	0.002	0	111
156	76.25	90	0.488	-0.012	0.007	0.004	0	111
155	75.75	90	0.482	-0.010	0.006	0.006	0	111
154	75.25	90	0.476	-0.007	0.006	0.008	1	111
153	74.75	90	0.469	-0.005	0.006	0.010	1	111
152	74.25	90	0.463	-0.003	0.006	0.012	1	111
151	73.75	90	0.457	-0.001	0.006	0.013	1	111
150	73.41	46	0.453	0.001	0.006	0.015	1	57
149	73.17	93	0.450	0.002	0.006	0.016	1	115
148	72.75	142	0.445	0.003	0.006	0.017	2	175
147	72.25	142	0.438	0.006	0.006	0.019	2	176
146	71.75	142	0.432	0.008	0.006	0.021	3	176
145	71.25	142	0.426	0.010	0.006	0.022	3	176
144	70.75	143	0.420	0.012	0.006	0.024	3	176
143	70.25	143	0.415	0.013	0.006	0.026	3	177
142	69.75	106	0.409	0.015	0.006	0.027	2	131

Site Number: 302494

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141	69.25	106	0.403	0.017	0.006	0.029		
140	68.75	106	0.397	0.019	0.007	0.030	3	131
139	68.25	106	0.391	0.021	0.007	0.032	3	131
138	67.75	106	0.386	0.023	0.007	0.033	3	131
137	67.25	106	0.380	0.024	0.007	0.034	3	131
136	66.75	106	0.374	0.026	0.007	0.036	3	132
135	66.25	107	0.369	0.028	0.008	0.037	3	132
134	65.75	107	0.363	0.029	0.008	0.038	3	132
133	65.25	107	0.358	0.031	0.008	0.039	4	132
132	64.75	107	0.352	0.032	0.009	0.040	4	132
131	64.25	107	0.347	0.034	0.009	0.042	4	132
130	63.75	107	0.341	0.035	0.009	0.043	4	133
129	63.25	107	0.336	0.037	0.010	0.044	4	133
128	62.75	107	0.331	0.038	0.010	0.044	4	133
127	62.25	108	0.326	0.039	0.010	0.045	4	133
126	61.75	108	0.320	0.040	0.011	0.046	4	133
125	61.25	108	0.315	0.042	0.011	0.047	4	133
124	60.75	108	0.310	0.043	0.011	0.048	4	134
123	60.25	108	0.305	0.044	0.012	0.048	4	134
122	59.75	108	0.300	0.045	0.012	0.049	5	134
121	59.25	108	0.295	0.046	0.013	0.050	5	134
120	58.75	109	0.290	0.048	0.013	0.050	5	134
119	58.25	109	0.285	0.049	0.014	0.051	5	134
118	57.75	109	0.280	0.050	0.014	0.051	5	135
117	57.25	109	0.275	0.051	0.014	0.052	5	135
116	56.75	109	0.271	0.051	0.015	0.052	5	135
115	56.25	109	0.266	0.052	0.015	0.052	5	135
114	55.75	109	0.261	0.053	0.016	0.053	5	135
113	55.25	109	0.256	0.054	0.016	0.053	5	135
112	54.75	110	0.252	0.055	0.017	0.053	5	136
111	54.25	110	0.247	0.056	0.017	0.054	5	136
110	53.75	110	0.243	0.057	0.018	0.054	5	136
109	53.25	110	0.238	0.057	0.018	0.054	5	136
108	52.75	110	0.234	0.058	0.019	0.054	5	136
107	52.25	110	0.229	0.059	0.020	0.055	5	136
106	51.75	110	0.225	0.059	0.020	0.055	5	137
105	51.25	111	0.221	0.060	0.021	0.055	5	137
104	50.75	111	0.216	0.061	0.021	0.055	5	137
103	50.25	111	0.212	0.061	0.022	0.055	5	137
102	49.75	111	0.208	0.062	0.022	0.055	5	137
101	49.25	111	0.204	0.062	0.023	0.055	5	137
100	48.75	111	0.200	0.063	0.023	0.055	5	138
99	48.25	111	0.196	0.063	0.024	0.055	5	138
98	47.75	112	0.192	0.064	0.024	0.055	5	138
97	47.25	112	0.188	0.064	0.025	0.055	5	138
96	46.75	112	0.184	0.065	0.025	0.055	5	138
95	46.25	112	0.180	0.065	0.026	0.055	5	138
94	45.75	112	0.176	0.066	0.026	0.055	5	139
93	45.25	112	0.172	0.066	0.027	0.055	5	139
92	44.75	112	0.168	0.066	0.028	0.055	5	139
91	44.25	113	0.164	0.067	0.028	0.055	5	139
90	43.75	113	0.161	0.067	0.029	0.055	5	139
89	43.25	113	0.157	0.067	0.029	0.055	5	139
88	42.75	113	0.154	0.068	0.030	0.055	5	140
87	42.25	113	0.150	0.068	0.030	0.055	5	140
86	41.75	113	0.146	0.068	0.031	0.055	5	140
85	41.25	113	0.143	0.068	0.031	0.054	5	140
84	40.75	113	0.139	0.069	0.032	0.054	5	140
83	40.25	114	0.136	0.069	0.032	0.054	5	140
82	39.75	114	0.133	0.069	0.033	0.054	5	141
81	39.25	114	0.129	0.069	0.033	0.054	5	141
80	38.75	114	0.126	0.070	0.034	0.054	5	141
79	38.25	114	0.123	0.070	0.034	0.054	5	141
78	37.75	114	0.120	0.070	0.034	0.054	5	141

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Customer: AT&T MOBILITY

77	37.25	114	0.117	0.070	0.035	0.054	5	142
76	36.83	76	0.114	0.070	0.035	0.053	4	94
75	36.58	41	0.112	0.070	0.035	0.053	2	51
74	36.25	121	0.110	0.070	0.036	0.053	6	150
73	35.83	81	0.108	0.071	0.036	0.053	4	100
72	35.58	62	0.106	0.071	0.036	0.053	3	77
71	35.25	186	0.104	0.071	0.037	0.053	9	230
70	34.75	186	0.101	0.071	0.037	0.053	9	231
69	34.25	187	0.099	0.071	0.037	0.053	9	231
68	33.75	187	0.096	0.071	0.038	0.053	9	231
67	33.25	187	0.093	0.071	0.038	0.053	9	232
66	32.75	187	0.090	0.071	0.038	0.052	9	232
65	32.25	188	0.087	0.071	0.039	0.052	9	232
64	31.75	188	0.085	0.071	0.039	0.052	9	233
63	31.25	132	0.082	0.072	0.039	0.052	6	164
62	30.75	132	0.079	0.072	0.040	0.052	6	164
61	30.25	133	0.077	0.072	0.040	0.052	6	164
60	29.75	133	0.074	0.072	0.040	0.052	6	164
59	29.25	133	0.072	0.072	0.040	0.052	6	164
58	28.75	133	0.069	0.072	0.041	0.051	6	165
57	28.25	133	0.067	0.072	0.041	0.051	6	165
56	27.75	133	0.065	0.072	0.041	0.051	6	165
55	27.25	133	0.062	0.072	0.041	0.051	6	165
54	26.75	134	0.060	0.072	0.041	0.051	6	165
53	26.25	134	0.058	0.072	0.041	0.051	6	166
52	25.75	134	0.056	0.071	0.042	0.051	6	166
51	25.25	134	0.054	0.071	0.042	0.050	6	166
50	24.75	134	0.051	0.071	0.042	0.050	6	166
49	24.25	134	0.049	0.071	0.042	0.050	6	166
48	23.75	135	0.047	0.071	0.042	0.050	6	167
47	23.25	135	0.045	0.071	0.042	0.050	6	167
46	22.75	135	0.043	0.071	0.042	0.050	6	167
45	22.25	135	0.042	0.070	0.042	0.050	6	167
44	21.75	135	0.040	0.070	0.042	0.049	6	167
43	21.25	135	0.038	0.070	0.041	0.049	6	168
42	20.75	136	0.036	0.070	0.041	0.049	6	168
41	20.25	136	0.034	0.069	0.041	0.049	6	168
40	19.75	136	0.033	0.069	0.041	0.048	6	168
39	19.25	136	0.031	0.068	0.041	0.048	6	168
38	18.75	136	0.030	0.068	0.040	0.048	6	169
37	18.25	136	0.028	0.068	0.040	0.048	6	169
36	17.75	137	0.026	0.067	0.040	0.047	6	169
35	17.25	137	0.025	0.066	0.039	0.047	6	169
34	16.75	137	0.024	0.066	0.039	0.047	6	169
33	16.25	137	0.022	0.065	0.039	0.046	6	170
32	15.75	137	0.021	0.065	0.038	0.046	5	170
31	15.25	137	0.020	0.064	0.038	0.046	5	170
30	14.75	138	0.018	0.063	0.037	0.045	5	170
29	14.25	138	0.017	0.062	0.037	0.045	5	170
28	13.75	138	0.016	0.061	0.036	0.044	5	171
27	13.25	138	0.015	0.060	0.035	0.044	5	171
26	12.75	138	0.014	0.059	0.035	0.043	5	171
25	12.25	138	0.013	0.058	0.034	0.043	5	171
24	11.75	138	0.012	0.057	0.033	0.042	5	171
23	11.25	139	0.011	0.056	0.032	0.041	5	172
22	10.75	139	0.010	0.054	0.031	0.041	5	172
21	10.25	139	0.009	0.053	0.031	0.040	5	172
20	9.75	139	0.008	0.052	0.030	0.039	5	172
19	9.25	139	0.007	0.050	0.029	0.038	5	172
18	8.75	139	0.006	0.048	0.028	0.037	5	173
17	8.25	140	0.006	0.047	0.026	0.036	4	173
16	7.75	118	0.005	0.045	0.025	0.035	4	146
15	7.25	118	0.004	0.043	0.024	0.034	3	146
14	6.75	118	0.004	0.041	0.023	0.033	3	147

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13	6.25	119	0.003	0.039	0.022	0.031	3	147
12	5.75	119	0.003	0.036	0.020	0.030	3	147
11	5.25	119	0.002	0.034	0.019	0.028	3	147
10	4.75	119	0.002	0.031	0.017	0.026	3	147
9	4.25	119	0.002	0.029	0.016	0.025	3	148
8	3.75	119	0.001	0.026	0.014	0.023	2	148
7	3.25	120	0.001	0.023	0.012	0.020	2	148
6	2.75	120	0.001	0.020	0.011	0.018	2	148
5	2.25	120	0.000	0.017	0.009	0.015	2	148
4	1.75	120	0.000	0.013	0.007	0.012	1	149
3	1.25	120	0.000	0.010	0.005	0.009	1	149
2	0.75	120	0.000	0.006	0.003	0.006	1	149
1	0.25	121	0.000	0.002	0.001	0.002	0	149
Kaelus DBC0061F1V51-	150.00	153	1.890	1.980	1.140	0.354	47	189
Decibel DB910CE-M	150.00	16	1.890	1.980	1.140	0.354	5	20
Raycap DC6-48-60-18-	150.00	32	1.890	1.980	1.140	0.354	10	39
Raycap DC6-48-60-18-	150.00	32	1.890	1.980	1.140	0.354	10	39
Powerwave LGP17201	150.00	186	1.890	1.980	1.140	0.354	57	230
Ericsson RRUS 11 (Ba	150.00	165	1.890	1.980	1.140	0.354	51	204
Ericsson RRUS 32 B2	150.00	159	1.890	1.980	1.140	0.354	49	197
Ericsson RRUS-32 (77	150.00	231	1.890	1.980	1.140	0.354	71	286
Powerwave Allgon 777	150.00	105	1.890	1.980	1.140	0.354	32	130
KMW AM-X-CD-16-65-00	150.00	97	1.890	1.980	1.140	0.354	30	120
Quintel QS66512-2	150.00	333	1.890	1.980	1.140	0.354	102	412
Powerwave P65-17-XLH	150.00	50	1.890	1.980	1.140	0.354	15	62
Round Platform w/ Ha	150.00	2,000	1.890	1.980	1.140	0.354	613	2,475
RFS APXV18-206517LS-	141.00	66	1.670	1.012	0.769	0.223	13	82
Alcatel-Lucent RRH2x	131.00	317	1.442	0.367	0.476	0.109	30	393
Alcatel-Lucent 1900	131.00	180	1.442	0.367	0.476	0.109	17	223
Decibel DB844H90E-XY	131.00	126	1.442	0.367	0.476	0.109	12	156
Alcatel-Lucent TD-RR	131.00	210	1.442	0.367	0.476	0.109	20	260
KMW ETCR-654L12H6	131.00	255	1.442	0.367	0.476	0.109	24	315
Round Low Profile PI	131.00	1,500	1.442	0.367	0.476	0.109	142	1,856
Lucent KS-24019	50.00	4	0.210	0.061	0.022	0.055	0	5
Stand-Off	50.00	100	0.210	0.061	0.022	0.055	5	124
		34,348	224.980	73.217	66.716	19.264	2,144	42,508

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)
303	149.75	30	1.884	1.947	1.128	0.350	9	26
302	149.25	30	1.871	1.882	1.105	0.342	9	26
301	148.75	30	1.859	1.819	1.081	0.334	9	26
300	148.25	30	1.846	1.757	1.059	0.326	9	26
299	147.75	30	1.834	1.696	1.036	0.319	8	26
298	147.25	30	1.821	1.637	1.014	0.311	8	26
297	146.75	30	1.809	1.580	0.993	0.304	8	26
296	146.25	30	1.797	1.523	0.972	0.296	8	26
295	145.75	30	1.784	1.469	0.951	0.289	8	26
294	145.25	31	1.772	1.415	0.930	0.282	7	26
293	144.75	31	1.760	1.363	0.910	0.275	7	26
292	144.25	31	1.748	1.312	0.890	0.267	7	26
291	143.75	31	1.736	1.263	0.871	0.260	7	27
290	143.25	31	1.724	1.214	0.851	0.254	7	27
289	142.75	31	1.712	1.167	0.833	0.247	7	27
288	142.25	31	1.700	1.121	0.814	0.240	6	27
287	141.75	31	1.688	1.077	0.796	0.233	6	27
286	141.25	31	1.676	1.033	0.778	0.227	6	27

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285	140.75	34	1.664	0.991	0.761	0.220	6	29
284	140.25	34	1.652	0.950	0.743	0.214	6	29
283	139.75	34	1.641	0.909	0.726	0.207	6	29
282	139.25	34	1.629	0.870	0.710	0.201	6	29
281	138.75	34	1.617	0.832	0.694	0.195	6	29
280	138.25	34	1.605	0.796	0.678	0.189	6	29
279	137.75	34	1.594	0.760	0.662	0.183	5	30
278	137.25	34	1.582	0.725	0.646	0.177	5	30
277	136.75	34	1.571	0.691	0.631	0.171	5	30
276	136.25	34	1.559	0.658	0.616	0.165	5	30
275	135.75	35	1.548	0.626	0.602	0.159	5	30
274	135.25	35	1.537	0.595	0.587	0.154	5	30
273	134.75	35	1.525	0.565	0.573	0.148	4	30
272	134.25	35	1.514	0.536	0.560	0.143	4	30
271	133.75	35	1.503	0.508	0.546	0.137	4	30
270	133.25	35	1.491	0.480	0.533	0.132	4	30
269	132.75	35	1.480	0.454	0.520	0.127	4	30
268	132.25	35	1.469	0.428	0.507	0.122	4	30
267	131.75	35	1.458	0.403	0.494	0.116	4	30
266	131.25	35	1.447	0.379	0.482	0.111	3	30
265	130.75	40	1.436	0.356	0.470	0.106	4	34
264	130.25	40	1.425	0.333	0.458	0.102	4	34
263	129.75	40	1.414	0.311	0.447	0.097	3	35
262	129.25	40	1.403	0.290	0.435	0.092	3	35
261	128.75	40	1.392	0.270	0.424	0.087	3	35
260	128.25	40	1.382	0.250	0.413	0.083	3	35
259	127.75	40	1.371	0.231	0.402	0.078	3	35
258	127.25	40	1.360	0.213	0.392	0.074	3	35
257	126.75	40	1.350	0.195	0.382	0.070	2	35
256	126.25	41	1.339	0.178	0.372	0.065	2	35
255	125.75	41	1.328	0.162	0.362	0.061	2	35
254	125.25	41	1.318	0.146	0.352	0.057	2	35
253	124.75	41	1.307	0.131	0.343	0.053	2	35
252	124.25	41	1.297	0.116	0.333	0.049	2	35
251	123.75	41	1.286	0.102	0.324	0.045	2	35
250	123.25	41	1.276	0.089	0.315	0.041	1	35
249	122.75	41	1.266	0.076	0.307	0.038	1	35
248	122.25	41	1.255	0.063	0.298	0.034	1	36
247	121.75	41	1.245	0.052	0.290	0.030	1	36
246	121.25	41	1.235	0.040	0.282	0.027	1	36
245	120.75	41	1.225	0.029	0.274	0.023	1	36
244	120.25	42	1.215	0.019	0.266	0.020	1	36
243	119.75	42	1.205	0.009	0.258	0.017	1	36
242	119.25	42	1.195	0.000	0.251	0.013	0	36
241	118.75	42	1.185	-0.009	0.243	0.010	0	36
240	118.25	42	1.175	-0.018	0.236	0.007	0	36
239	117.75	42	1.165	-0.026	0.229	0.004	0	36
238	117.25	42	1.155	-0.034	0.222	0.001	0	36
237	116.75	42	1.145	-0.041	0.216	-0.002	0	36
236	116.25	68	1.135	-0.048	0.209	-0.004	0	58
235	115.75	68	1.125	-0.054	0.203	-0.007	0	58
234	115.25	68	1.116	-0.061	0.197	-0.010	-1	59
233	114.75	68	1.106	-0.066	0.191	-0.012	-1	59
232	114.25	68	1.096	-0.072	0.185	-0.015	-1	59
231	113.75	68	1.087	-0.077	0.179	-0.017	-1	59
230	113.25	68	1.077	-0.082	0.173	-0.019	-1	59
229	112.75	68	1.068	-0.086	0.168	-0.022	-1	59
228	112.25	68	1.058	-0.090	0.162	-0.024	-1	59
227	111.75	68	1.049	-0.094	0.157	-0.026	-2	59
226	111.25	69	1.040	-0.098	0.152	-0.028	-2	59
225	110.75	69	1.030	-0.101	0.147	-0.030	-2	59
224	110.25	69	1.021	-0.104	0.142	-0.032	-2	59
223	109.75	82	1.012	-0.107	0.137	-0.034	-2	71
222	109.25	82	1.003	-0.109	0.133	-0.036	-3	71

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221	108.75	83	0.993	-0.111	0.128	-0.037	-3	71
220	108.25	83	0.984	-0.113	0.124	-0.039	-3	71
219	107.75	83	0.975	-0.115	0.119	-0.040	-3	71
218	107.25	83	0.966	-0.117	0.115	-0.042	-3	71
217	106.75	83	0.957	-0.118	0.111	-0.043	-3	72
216	106.25	83	0.948	-0.119	0.107	-0.045	-3	72
215	105.75	83	0.939	-0.120	0.103	-0.046	-3	72
214	105.25	83	0.931	-0.121	0.100	-0.047	-3	72
213	104.75	83	0.922	-0.121	0.096	-0.048	-3	72
212	104.25	84	0.913	-0.122	0.092	-0.049	-4	72
211	103.75	84	0.904	-0.122	0.089	-0.050	-4	72
210	103.25	84	0.895	-0.122	0.086	-0.051	-4	72
209	102.75	84	0.887	-0.122	0.082	-0.052	-4	72
208	102.25	84	0.878	-0.121	0.079	-0.052	-4	72
207	101.75	84	0.870	-0.121	0.076	-0.053	-4	72
206	101.25	84	0.861	-0.120	0.073	-0.053	-4	73
205	100.75	84	0.853	-0.119	0.070	-0.054	-4	73
204	100.25	84	0.844	-0.119	0.067	-0.054	-4	73
203	99.75	84	0.836	-0.118	0.065	-0.055	-4	73
202	99.25	85	0.827	-0.116	0.062	-0.055	-4	73
201	98.75	85	0.819	-0.115	0.059	-0.055	-4	73
200	98.25	85	0.811	-0.114	0.057	-0.055	-4	73
199	97.75	85	0.803	-0.112	0.055	-0.055	-4	73
198	97.25	85	0.794	-0.111	0.052	-0.055	-4	73
197	96.75	85	0.786	-0.109	0.050	-0.055	-4	73
196	96.25	85	0.778	-0.108	0.048	-0.055	-4	74
195	95.75	85	0.770	-0.106	0.046	-0.054	-4	74
194	95.25	85	0.762	-0.104	0.044	-0.054	-4	74
193	94.75	86	0.754	-0.102	0.042	-0.054	-4	74
192	94.25	86	0.746	-0.100	0.040	-0.053	-4	74
191	93.75	86	0.738	-0.098	0.038	-0.052	-4	74
190	93.25	86	0.730	-0.096	0.036	-0.052	-4	74
189	92.75	86	0.723	-0.094	0.034	-0.051	-4	74
188	92.25	86	0.715	-0.091	0.033	-0.050	-4	74
187	91.75	86	0.707	-0.089	0.031	-0.049	-4	74
186	91.25	86	0.699	-0.087	0.030	-0.048	-4	74
185	90.75	86	0.692	-0.084	0.028	-0.047	-4	74
184	90.25	87	0.684	-0.082	0.027	-0.046	-3	75
183	89.75	87	0.677	-0.080	0.026	-0.045	-3	75
182	89.25	87	0.669	-0.077	0.024	-0.044	-3	75
181	88.75	87	0.662	-0.075	0.023	-0.043	-3	75
180	88.25	87	0.654	-0.072	0.022	-0.041	-3	75
179	87.75	87	0.647	-0.070	0.021	-0.040	-3	75
178	87.25	87	0.639	-0.067	0.020	-0.038	-3	75
177	86.75	87	0.632	-0.064	0.019	-0.037	-3	75
176	86.25	87	0.625	-0.062	0.018	-0.035	-3	75
175	85.75	87	0.618	-0.059	0.017	-0.033	-3	75
174	85.25	88	0.610	-0.057	0.016	-0.032	-2	76
173	84.75	88	0.603	-0.054	0.015	-0.030	-2	76
172	84.25	88	0.596	-0.052	0.014	-0.028	-2	76
171	83.75	88	0.589	-0.049	0.013	-0.026	-2	76
170	83.25	88	0.582	-0.046	0.013	-0.025	-2	76
169	82.75	88	0.575	-0.044	0.012	-0.023	-2	76
168	82.25	88	0.568	-0.041	0.011	-0.021	-2	76
167	81.75	88	0.561	-0.039	0.011	-0.019	-1	76
166	81.25	88	0.555	-0.036	0.010	-0.017	-1	76
165	80.75	89	0.548	-0.034	0.010	-0.015	-1	76
164	80.25	89	0.541	-0.031	0.009	-0.013	-1	76
163	79.75	89	0.534	-0.029	0.009	-0.011	-1	77
162	79.25	89	0.528	-0.026	0.008	-0.009	-1	77
161	78.75	89	0.521	-0.024	0.008	-0.007	-1	77
160	78.25	89	0.514	-0.021	0.008	-0.005	0	77
159	77.75	89	0.508	-0.019	0.007	-0.002	0	77
158	77.25	89	0.501	-0.017	0.007	0.000	0	77

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157	76.75	89	0.495	-0.014	0.007	0.002	0	77
156	76.25	90	0.488	-0.012	0.007	0.004	0	77
155	75.75	90	0.482	-0.010	0.006	0.006	0	77
154	75.25	90	0.476	-0.007	0.006	0.008	1	77
153	74.75	90	0.469	-0.005	0.006	0.010	1	77
152	74.25	90	0.463	-0.003	0.006	0.012	1	78
151	73.75	90	0.457	-0.001	0.006	0.013	1	78
150	73.41	46	0.453	0.001	0.006	0.015	1	40
149	73.17	93	0.450	0.002	0.006	0.016	1	80
148	72.75	142	0.445	0.003	0.006	0.017	2	122
147	72.25	142	0.438	0.006	0.006	0.019	2	122
146	71.75	142	0.432	0.008	0.006	0.021	3	123
145	71.25	142	0.426	0.010	0.006	0.022	3	123
144	70.75	143	0.420	0.012	0.006	0.024	3	123
143	70.25	143	0.415	0.013	0.006	0.026	3	123
142	69.75	106	0.409	0.015	0.006	0.027	2	91
141	69.25	106	0.403	0.017	0.006	0.029	3	91
140	68.75	106	0.397	0.019	0.007	0.030	3	91
139	68.25	106	0.391	0.021	0.007	0.032	3	91
138	67.75	106	0.386	0.023	0.007	0.033	3	92
137	67.25	106	0.380	0.024	0.007	0.034	3	92
136	66.75	106	0.374	0.026	0.007	0.036	3	92
135	66.25	107	0.369	0.028	0.008	0.037	3	92
134	65.75	107	0.363	0.029	0.008	0.038	4	92
133	65.25	107	0.358	0.031	0.008	0.039	4	92
132	64.75	107	0.352	0.032	0.009	0.040	4	92
131	64.25	107	0.347	0.034	0.009	0.042	4	92
130	63.75	107	0.341	0.035	0.009	0.043	4	92
129	63.25	107	0.336	0.037	0.010	0.044	4	93
128	62.75	107	0.331	0.038	0.010	0.044	4	93
127	62.25	108	0.326	0.039	0.010	0.045	4	93
126	61.75	108	0.320	0.040	0.011	0.046	4	93
125	61.25	108	0.315	0.042	0.011	0.047	4	93
124	60.75	108	0.310	0.043	0.011	0.048	4	93
123	60.25	108	0.305	0.044	0.012	0.048	5	93
122	59.75	108	0.300	0.045	0.012	0.049	5	93
121	59.25	108	0.295	0.046	0.013	0.050	5	94
120	58.75	109	0.290	0.048	0.013	0.050	5	94
119	58.25	109	0.285	0.049	0.014	0.051	5	94
118	57.75	109	0.280	0.050	0.014	0.051	5	94
117	57.25	109	0.275	0.051	0.014	0.052	5	94
116	56.75	109	0.271	0.051	0.015	0.052	5	94
115	56.25	109	0.266	0.052	0.015	0.052	5	94
114	55.75	109	0.261	0.053	0.016	0.053	5	94
113	55.25	109	0.256	0.054	0.016	0.053	5	94
112	54.75	110	0.252	0.055	0.017	0.053	5	95
111	54.25	110	0.247	0.056	0.017	0.054	5	95
110	53.75	110	0.243	0.057	0.018	0.054	5	95
109	53.25	110	0.238	0.057	0.018	0.054	5	95
108	52.75	110	0.234	0.058	0.019	0.054	5	95
107	52.25	110	0.229	0.059	0.020	0.055	5	95
106	51.75	110	0.225	0.059	0.020	0.055	5	95
105	51.25	111	0.221	0.060	0.021	0.055	5	95
104	50.75	111	0.216	0.061	0.021	0.055	5	95
103	50.25	111	0.212	0.061	0.022	0.055	5	96
102	49.75	111	0.208	0.062	0.022	0.055	5	96
101	49.25	111	0.204	0.062	0.023	0.055	5	96
100	48.75	111	0.200	0.063	0.023	0.055	5	96
99	48.25	111	0.196	0.063	0.024	0.055	5	96
98	47.75	112	0.192	0.064	0.024	0.055	5	96
97	47.25	112	0.188	0.064	0.025	0.055	5	96
96	46.75	112	0.184	0.065	0.025	0.055	5	96
95	46.25	112	0.180	0.065	0.026	0.055	5	97
94	45.75	112	0.176	0.066	0.026	0.055	5	97

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93	45.25	112	0.172	0.066	0.027	0.055	5	97
92	44.75	112	0.168	0.066	0.028	0.055	5	97
91	44.25	113	0.164	0.067	0.028	0.055	5	97
90	43.75	113	0.161	0.067	0.029	0.055	5	97
89	43.25	113	0.157	0.067	0.029	0.055	5	97
88	42.75	113	0.154	0.068	0.030	0.055	5	97
87	42.25	113	0.150	0.068	0.030	0.055	5	98
86	41.75	113	0.146	0.068	0.031	0.055	5	98
85	41.25	113	0.143	0.068	0.031	0.054	5	98
84	40.75	113	0.139	0.069	0.032	0.054	5	98
83	40.25	114	0.136	0.069	0.032	0.054	5	98
82	39.75	114	0.133	0.069	0.033	0.054	5	98
81	39.25	114	0.129	0.069	0.033	0.054	5	98
80	38.75	114	0.126	0.070	0.034	0.054	5	98
79	38.25	114	0.123	0.070	0.034	0.054	5	98
78	37.75	114	0.120	0.070	0.034	0.054	5	99
77	37.25	114	0.117	0.070	0.035	0.054	5	99
76	36.83	76	0.114	0.070	0.035	0.053	4	65
75	36.58	41	0.112	0.070	0.035	0.053	2	35
74	36.25	121	0.110	0.070	0.036	0.053	6	104
73	35.83	81	0.108	0.071	0.036	0.053	4	70
72	35.58	62	0.106	0.071	0.036	0.053	3	53
71	35.25	186	0.104	0.071	0.037	0.053	9	160
70	34.75	186	0.101	0.071	0.037	0.053	9	161
69	34.25	187	0.099	0.071	0.037	0.053	9	161
68	33.75	187	0.096	0.071	0.038	0.053	9	161
67	33.25	187	0.093	0.071	0.038	0.053	9	161
66	32.75	187	0.090	0.071	0.038	0.052	9	162
65	32.25	188	0.087	0.071	0.039	0.052	9	162
64	31.75	188	0.085	0.071	0.039	0.052	9	162
63	31.25	132	0.082	0.072	0.039	0.052	6	114
62	30.75	132	0.079	0.072	0.040	0.052	6	114
61	30.25	133	0.077	0.072	0.040	0.052	6	114
60	29.75	133	0.074	0.072	0.040	0.052	6	114
59	29.25	133	0.072	0.072	0.040	0.052	6	115
58	28.75	133	0.069	0.072	0.041	0.051	6	115
57	28.25	133	0.067	0.072	0.041	0.051	6	115
56	27.75	133	0.065	0.072	0.041	0.051	6	115
55	27.25	133	0.062	0.072	0.041	0.051	6	115
54	26.75	134	0.060	0.072	0.041	0.051	6	115
53	26.25	134	0.058	0.072	0.041	0.051	6	115
52	25.75	134	0.056	0.071	0.042	0.051	6	116
51	25.25	134	0.054	0.071	0.042	0.050	6	116
50	24.75	134	0.051	0.071	0.042	0.050	6	116
49	24.25	134	0.049	0.071	0.042	0.050	6	116
48	23.75	135	0.047	0.071	0.042	0.050	6	116
47	23.25	135	0.045	0.071	0.042	0.050	6	116
46	22.75	135	0.043	0.071	0.042	0.050	6	116
45	22.25	135	0.042	0.070	0.042	0.050	6	117
44	21.75	135	0.040	0.070	0.042	0.049	6	117
43	21.25	135	0.038	0.070	0.041	0.049	6	117
42	20.75	136	0.036	0.070	0.041	0.049	6	117
41	20.25	136	0.034	0.069	0.041	0.049	6	117
40	19.75	136	0.033	0.069	0.041	0.048	6	117
39	19.25	136	0.031	0.068	0.041	0.048	6	117
38	18.75	136	0.030	0.068	0.040	0.048	6	117
37	18.25	136	0.028	0.068	0.040	0.048	6	118
36	17.75	137	0.026	0.067	0.040	0.047	6	118
35	17.25	137	0.025	0.066	0.039	0.047	6	118
34	16.75	137	0.024	0.066	0.039	0.047	6	118
33	16.25	137	0.022	0.065	0.039	0.046	6	118
32	15.75	137	0.021	0.065	0.038	0.046	5	118
31	15.25	137	0.020	0.064	0.038	0.046	5	118
30	14.75	138	0.018	0.063	0.037	0.045	5	119

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29	14.25	138	0.017	0.062	0.037	0.045	5	119
28	13.75	138	0.016	0.061	0.036	0.044	5	119
27	13.25	138	0.015	0.060	0.035	0.044	5	119
26	12.75	138	0.014	0.059	0.035	0.043	5	119
25	12.25	138	0.013	0.058	0.034	0.043	5	119
24	11.75	138	0.012	0.057	0.033	0.042	5	119
23	11.25	139	0.011	0.056	0.032	0.041	5	120
22	10.75	139	0.010	0.054	0.031	0.041	5	120
21	10.25	139	0.009	0.053	0.031	0.040	5	120
20	9.75	139	0.008	0.052	0.030	0.039	5	120
19	9.25	139	0.007	0.050	0.029	0.038	5	120
18	8.75	139	0.006	0.048	0.028	0.037	5	120
17	8.25	140	0.006	0.047	0.026	0.036	4	120
16	7.75	118	0.005	0.045	0.025	0.035	4	102
15	7.25	118	0.004	0.043	0.024	0.034	3	102
14	6.75	118	0.004	0.041	0.023	0.033	3	102
13	6.25	119	0.003	0.039	0.022	0.031	3	102
12	5.75	119	0.003	0.036	0.020	0.030	3	102
11	5.25	119	0.002	0.034	0.019	0.028	3	103
10	4.75	119	0.002	0.031	0.017	0.026	3	103
9	4.25	119	0.002	0.029	0.016	0.025	3	103
8	3.75	119	0.001	0.026	0.014	0.023	2	103
7	3.25	120	0.001	0.023	0.012	0.020	2	103
6	2.75	120	0.001	0.020	0.011	0.018	2	103
5	2.25	120	0.000	0.017	0.009	0.015	2	103
4	1.75	120	0.000	0.013	0.007	0.012	1	104
3	1.25	120	0.000	0.010	0.005	0.009	1	104
2	0.75	120	0.000	0.006	0.003	0.006	1	104
1	0.25	121	0.000	0.002	0.001	0.002	0	104
Kaelus DBC0061F1V51-	150.00	153	1.890	1.980	1.140	0.354	47	132
Decibel DB910CE-M	150.00	16	1.890	1.980	1.140	0.354	5	14
Raycap DC6-48-60-18-	150.00	32	1.890	1.980	1.140	0.354	10	27
Raycap DC6-48-60-18-	150.00	32	1.890	1.980	1.140	0.354	10	27
Powerwave LGP17201	150.00	186	1.890	1.980	1.140	0.354	57	160
Ericsson RRUS 11 (Ba	150.00	165	1.890	1.980	1.140	0.354	51	142
Ericsson RRUS 32 B2	150.00	159	1.890	1.980	1.140	0.354	49	137
Ericsson RRUS-32 (77	150.00	231	1.890	1.980	1.140	0.354	71	199
Powerwave Allgon 777	150.00	105	1.890	1.980	1.140	0.354	32	91
KMW AM-X-CD-16-65-00	150.00	97	1.890	1.980	1.140	0.354	30	84
Quintel QS66512-2	150.00	333	1.890	1.980	1.140	0.354	102	287
Powerwave P65-17-XLH	150.00	50	1.890	1.980	1.140	0.354	15	43
Round Platform w/ Ha	150.00	2,000	1.890	1.980	1.140	0.354	613	1,725
RFS APXV18-206517LS-	141.00	66	1.670	1.012	0.769	0.223	13	57
Alcatel-Lucent RRH2x	131.00	317	1.442	0.367	0.476	0.109	30	274
Alcatel-Lucent 1900	131.00	180	1.442	0.367	0.476	0.109	17	155
Decibel DB844H90E-XY	131.00	126	1.442	0.367	0.476	0.109	12	109
Alcatel-Lucent TD-RR	131.00	210	1.442	0.367	0.476	0.109	20	181
KMW ETCR-654L12H6	131.00	255	1.442	0.367	0.476	0.109	24	220
Round Low Profile PI	131.00	1,500	1.442	0.367	0.476	0.109	142	1,294
Lucent KS-24019	50.00	4	0.210	0.061	0.022	0.055	0	3
Stand-Off	50.00	100	0.210	0.061	0.022	0.055	5	86
		34,348	224.980	73.217	66.716	19.264	2,144	29,624

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Customer: AT&T MOBILITY

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

Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-42.36	-2.14	0.00	-263.03	0.00	263.03	3,157.17	1,578.58	4,812.28	2,376.61	0.00	0.00	0.076
0.50	-42.21	-2.14	0.00	-261.96	0.00	261.96	3,152.93	1,576.47	4,795.55	2,368.34	0.00	0.00	0.076
1.00	-42.06	-2.14	0.00	-260.89	0.00	260.89	3,148.69	1,574.34	4,778.83	2,360.09	0.00	-0.01	0.076
1.50	-41.91	-2.15	0.00	-259.82	0.00	259.82	3,144.43	1,572.22	4,762.13	2,351.84	0.00	-0.01	0.076
2.00	-41.76	-2.15	0.00	-258.74	0.00	258.74	3,140.17	1,570.08	4,745.43	2,343.59	0.00	-0.01	0.076
2.50	-41.61	-2.15	0.00	-257.67	0.00	257.67	3,135.89	1,567.94	4,728.75	2,335.35	0.00	-0.01	0.076
3.00	-41.47	-2.15	0.00	-256.60	0.00	256.60	3,131.60	1,565.80	4,712.08	2,327.12	0.01	-0.02	0.075
3.50	-41.32	-2.15	0.00	-255.52	0.00	255.52	3,127.31	1,563.65	4,695.42	2,318.89	0.01	-0.02	0.075
4.00	-41.17	-2.15	0.00	-254.45	0.00	254.45	3,123.00	1,561.50	4,678.77	2,310.67	0.01	-0.02	0.075
4.50	-41.02	-2.15	0.00	-253.38	0.00	253.38	3,118.68	1,559.34	4,662.14	2,302.45	0.01	-0.03	0.075
5.00	-40.88	-2.14	0.00	-252.31	0.00	252.31	3,114.35	1,557.18	4,645.51	2,294.24	0.02	-0.03	0.075
5.50	-40.73	-2.14	0.00	-251.23	0.00	251.23	3,110.02	1,555.01	4,628.91	2,286.04	0.02	-0.03	0.075
6.00	-40.58	-2.14	0.00	-250.16	0.00	250.16	3,105.67	1,552.83	4,612.31	2,277.85	0.02	-0.04	0.075
6.50	-40.44	-2.14	0.00	-249.09	0.00	249.09	3,101.31	1,550.65	4,595.73	2,269.66	0.03	-0.04	0.074
7.00	-40.29	-2.14	0.00	-248.02	0.00	248.02	3,096.94	1,548.47	4,579.16	2,261.47	0.03	-0.04	0.074
7.50	-40.14	-2.14	0.00	-246.95	0.00	246.95	3,092.56	1,546.28	4,562.60	2,253.30	0.03	-0.04	0.074
8.00	-39.97	-2.14	0.00	-245.88	0.00	245.88	3,088.17	1,544.08	4,546.06	2,245.13	0.04	-0.05	0.074
8.50	-39.80	-2.13	0.00	-244.82	0.00	244.82	3,083.77	1,541.88	4,529.53	2,236.96	0.04	-0.05	0.074
9.00	-39.62	-2.13	0.00	-243.75	0.00	243.75	3,079.36	1,539.68	4,513.01	2,228.81	0.05	-0.05	0.074
9.50	-39.45	-2.13	0.00	-242.68	0.00	242.68	3,074.94	1,537.47	4,496.51	2,220.66	0.06	-0.06	0.074
10.00	-39.28	-2.12	0.00	-241.62	0.00	241.62	3,070.50	1,535.25	4,480.02	2,212.51	0.06	-0.06	0.074
10.50	-39.11	-2.12	0.00	-240.56	0.00	240.56	3,066.06	1,533.03	4,463.54	2,204.38	0.07	-0.06	0.073
11.00	-38.94	-2.12	0.00	-239.50	0.00	239.50	3,061.61	1,530.80	4,447.08	2,196.25	0.08	-0.07	0.073
11.50	-38.76	-2.11	0.00	-238.44	0.00	238.44	3,057.15	1,528.57	4,430.63	2,188.12	0.08	-0.07	0.073
12.00	-38.59	-2.11	0.00	-237.38	0.00	237.38	3,052.67	1,526.34	4,414.20	2,180.01	0.09	-0.07	0.073
12.50	-38.42	-2.11	0.00	-236.33	0.00	236.33	3,048.19	1,524.09	4,397.78	2,171.90	0.10	-0.07	0.073
13.00	-38.25	-2.10	0.00	-235.27	0.00	235.27	3,043.69	1,521.85	4,381.37	2,163.80	0.11	-0.08	0.073
13.50	-38.08	-2.10	0.00	-234.22	0.00	234.22	3,039.19	1,519.59	4,364.98	2,155.70	0.11	-0.08	0.073
14.00	-37.91	-2.10	0.00	-233.17	0.00	233.17	3,034.67	1,517.34	4,348.61	2,147.61	0.12	-0.08	0.072
14.50	-37.74	-2.09	0.00	-232.12	0.00	232.12	3,030.15	1,515.07	4,332.24	2,139.53	0.13	-0.09	0.072
15.00	-37.57	-2.09	0.00	-231.07	0.00	231.07	3,025.61	1,512.81	4,315.90	2,131.46	0.14	-0.09	0.072
15.50	-37.40	-2.09	0.00	-230.03	0.00	230.03	3,021.07	1,510.53	4,299.57	2,123.39	0.15	-0.09	0.072
16.00	-37.23	-2.08	0.00	-228.99	0.00	228.99	3,016.51	1,508.25	4,283.25	2,115.33	0.16	-0.10	0.072
16.50	-37.06	-2.08	0.00	-227.95	0.00	227.95	3,011.94	1,505.97	4,266.95	2,107.28	0.17	-0.10	0.072
17.00	-36.89	-2.07	0.00	-226.91	0.00	226.91	3,007.37	1,503.68	4,250.66	2,099.24	0.18	-0.10	0.072
17.50	-36.72	-2.07	0.00	-225.87	0.00	225.87	3,002.78	1,501.39	4,234.39	2,091.20	0.19	-0.10	0.071
18.00	-36.55	-2.07	0.00	-224.83	0.00	224.83	2,998.18	1,499.09	4,218.13	2,083.18	0.20	-0.11	0.071
18.50	-36.39	-2.06	0.00	-223.80	0.00	223.80	2,993.57	1,496.79	4,201.89	2,075.15	0.21	-0.11	0.071
19.00	-36.22	-2.06	0.00	-222.77	0.00	222.77	2,988.95	1,494.48	4,185.66	2,067.14	0.23	-0.11	0.071
19.50	-36.05	-2.05	0.00	-221.74	0.00	221.74	2,984.32	1,492.16	4,169.45	2,059.13	0.24	-0.12	0.071
20.00	-35.88	-2.05	0.00	-220.71	0.00	220.71	2,979.68	1,489.84	4,153.25	2,051.14	0.25	-0.12	0.071
20.50	-35.71	-2.05	0.00	-219.69	0.00	219.69	2,975.03	1,487.52	4,137.08	2,043.15	0.26	-0.12	0.071
21.00	-35.54	-2.04	0.00	-218.66	0.00	218.66	2,970.37	1,485.19	4,120.91	2,035.16	0.28	-0.13	0.070
21.50	-35.38	-2.04	0.00	-217.64	0.00	217.64	2,965.70	1,482.85	4,104.77	2,027.19	0.29	-0.13	0.070
22.00	-35.21	-2.03	0.00	-216.62	0.00	216.62	2,961.02	1,480.51	4,088.63	2,019.22	0.30	-0.13	0.070
22.50	-35.04	-2.03	0.00	-215.61	0.00	215.61	2,956.33	1,478.16	4,072.52	2,011.26	0.32	-0.14	0.070
23.00	-34.88	-2.02	0.00	-214.59	0.00	214.59	2,951.62	1,475.81	4,056.42	2,003.31	0.33	-0.14	0.070
23.50	-34.71	-2.02	0.00	-213.58	0.00	213.58	2,946.91	1,473.46	4,040.34	1,995.37	0.35	-0.14	0.070
24.00	-34.54	-2.02	0.00	-212.57	0.00	212.57	2,942.19	1,471.09	4,024.27	1,987.44	0.36	-0.14	0.069
24.50	-34.38	-2.01	0.00	-211.56	0.00	211.56	2,937.46	1,468.73	4,008.22	1,979.51	0.38	-0.15	0.069
25.00	-34.21	-2.01	0.00	-210.56	0.00	210.56	2,932.71	1,466.36	3,992.19	1,971.59	0.39	-0.15	0.069
25.50	-34.04	-2.00	0.00	-209.55	0.00	209.55	2,927.96	1,463.98	3,976.18	1,963.68	0.41	-0.15	0.069
26.00	-33.88	-2.00	0.00	-208.55	0.00	208.55	2,923.19	1,461.60	3,960.18	1,955.78	0.42	-0.16	0.069
26.50	-33.71	-1.99	0.00	-207.55	0.00	207.55	2,918.42	1,459.21	3,944.20	1,947.89	0.44	-0.16	0.069
27.00	-33.55	-1.99	0.00	-206.56	0.00	206.56	2,913.63	1,456.82	3,928.23	1,940.01	0.46	-0.16	0.069
27.50	-33.38	-1.98	0.00	-205.56	0.00	205.56	2,910.08	1,455.04	3,913.96	1,932.96	0.48	-0.17	0.068

Site Number: 302494

Code: ANSI/TIA-222-G

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Site Name: Hddm - Haddam, CT

Engineering Number: OAA713049_C3_01

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28.00	-33.22	-1.98	0.00	-204.57	0.00	204.57	2,903.11	1,451.55	3,895.11	1,923.65	0.49	-0.17	0.068
28.50	-33.05	-1.98	0.00	-203.58	0.00	203.58	2,896.13	1,448.07	3,876.32	1,914.37	0.51	-0.17	0.068
29.00	-32.89	-1.97	0.00	-202.59	0.00	202.59	2,889.16	1,444.58	3,857.57	1,905.11	0.53	-0.18	0.068
29.50	-32.72	-1.97	0.00	-201.61	0.00	201.61	2,882.19	1,441.09	3,838.86	1,895.87	0.55	-0.18	0.068
30.00	-32.56	-1.96	0.00	-200.62	0.00	200.62	2,875.21	1,437.61	3,820.20	1,886.65	0.57	-0.18	0.068
30.50	-32.40	-1.96	0.00	-199.64	0.00	199.64	2,868.24	1,434.12	3,801.59	1,877.46	0.59	-0.19	0.068
31.00	-32.23	-1.95	0.00	-198.67	0.00	198.67	2,861.26	1,430.63	3,783.02	1,868.29	0.61	-0.19	0.068
31.50	-32.00	-1.94	0.00	-197.69	0.00	197.69	2,854.29	1,427.15	3,764.50	1,859.14	0.63	-0.19	0.068
32.00	-31.77	-1.94	0.00	-196.72	0.00	196.72	2,847.32	1,423.66	3,746.02	1,850.02	0.65	-0.19	0.067
32.50	-31.54	-1.93	0.00	-195.75	0.00	195.75	2,840.34	1,420.17	3,727.58	1,840.91	0.67	-0.20	0.066
33.00	-31.30	-1.92	0.00	-194.78	0.00	194.78	2,833.37	1,416.69	3,709.20	1,831.83	0.69	-0.20	0.066
33.50	-31.07	-1.91	0.00	-193.82	0.00	193.82	2,826.40	1,413.20	3,690.85	1,822.77	0.71	-0.20	0.066
34.00	-30.84	-1.91	0.00	-192.87	0.00	192.87	2,819.42	1,409.71	3,672.56	1,813.74	0.73	-0.21	0.066
34.50	-30.61	-1.90	0.00	-191.91	0.00	191.91	2,812.45	1,406.22	3,654.31	1,804.72	0.75	-0.21	0.066
35.00	-30.38	-1.89	0.00	-190.96	0.00	190.96	2,805.48	1,402.74	3,636.10	1,795.73	0.77	-0.21	0.066
35.50	-30.30	-1.89	0.00	-190.02	0.00	190.02	2,798.50	1,399.25	3,617.94	1,786.76	0.80	-0.22	0.066
35.67	-30.20	-1.89	0.00	-189.70	0.00	189.70	2,248.07	1,124.03	2,973.91	1,468.70	0.80	-0.22	0.076
36.00	-30.05	-1.88	0.00	-189.07	0.00	189.07	2,245.83	1,122.91	2,966.06	1,464.83	0.82	-0.22	0.076
36.50	-30.00	-1.88	0.00	-188.13	0.00	188.13	2,242.46	1,121.23	2,954.30	1,459.02	0.84	-0.22	0.076
36.67	-29.91	-1.88	0.00	-187.81	0.00	187.81	2,241.31	1,120.65	2,950.31	1,457.05	0.85	-0.22	0.075
36.67	-29.91	-1.88	0.00	-187.81	0.00	187.81	2,241.31	1,120.65	2,950.31	1,457.05	0.85	-0.22	0.081
37.00	-29.77	-1.87	0.00	-187.20	0.00	187.20	2,239.08	1,119.54	2,942.55	1,453.22	0.87	-0.23	0.081
37.50	-29.63	-1.87	0.00	-186.26	0.00	186.26	2,235.69	1,117.84	2,930.81	1,447.42	0.89	-0.23	0.081
38.00	-29.49	-1.86	0.00	-185.32	0.00	185.32	2,232.29	1,116.14	2,919.08	1,441.62	0.91	-0.23	0.080
38.50	-29.34	-1.86	0.00	-184.39	0.00	184.39	2,228.88	1,114.44	2,907.36	1,435.83	0.94	-0.24	0.080
39.00	-29.20	-1.86	0.00	-183.46	0.00	183.46	2,225.46	1,112.73	2,895.64	1,430.05	0.96	-0.24	0.080
39.50	-29.06	-1.85	0.00	-182.53	0.00	182.53	2,222.03	1,111.01	2,883.93	1,424.27	0.99	-0.24	0.080
40.00	-28.92	-1.85	0.00	-181.61	0.00	181.61	2,218.59	1,109.29	2,872.23	1,418.49	1.02	-0.25	0.080
40.50	-28.78	-1.84	0.00	-180.68	0.00	180.68	2,215.14	1,107.57	2,860.55	1,412.72	1.04	-0.25	0.079
41.00	-28.64	-1.84	0.00	-179.76	0.00	179.76	2,211.67	1,105.84	2,848.87	1,406.95	1.07	-0.26	0.079
41.50	-28.50	-1.84	0.00	-178.84	0.00	178.84	2,208.20	1,104.10	2,837.20	1,401.18	1.10	-0.26	0.079
42.00	-28.36	-1.83	0.00	-177.92	0.00	177.92	2,204.72	1,102.36	2,825.53	1,395.42	1.12	-0.26	0.079
42.50	-28.22	-1.83	0.00	-177.01	0.00	177.01	2,201.23	1,100.61	2,813.88	1,389.67	1.15	-0.27	0.079
43.00	-28.08	-1.82	0.00	-176.09	0.00	176.09	2,197.72	1,098.86	2,802.24	1,383.92	1.18	-0.27	0.079
43.50	-27.94	-1.82	0.00	-175.18	0.00	175.18	2,194.21	1,097.10	2,790.61	1,378.18	1.21	-0.27	0.078
44.00	-27.80	-1.81	0.00	-174.27	0.00	174.27	2,190.68	1,095.34	2,778.98	1,372.44	1.24	-0.28	0.078
44.50	-27.66	-1.81	0.00	-173.37	0.00	173.37	2,187.15	1,093.57	2,767.37	1,366.70	1.27	-0.28	0.078
45.00	-27.52	-1.81	0.00	-172.46	0.00	172.46	2,183.60	1,091.80	2,755.77	1,360.97	1.30	-0.29	0.078
45.50	-27.39	-1.80	0.00	-171.56	0.00	171.56	2,180.05	1,090.02	2,744.17	1,355.24	1.33	-0.29	0.078
46.00	-27.25	-1.80	0.00	-170.66	0.00	170.66	2,176.48	1,088.24	2,732.59	1,349.52	1.36	-0.29	0.077
46.50	-27.11	-1.79	0.00	-169.76	0.00	169.76	2,172.91	1,086.45	2,721.02	1,343.81	1.39	-0.30	0.077
47.00	-26.97	-1.79	0.00	-168.86	0.00	168.86	2,169.32	1,084.66	2,709.45	1,338.10	1.42	-0.30	0.077
47.50	-26.83	-1.78	0.00	-167.97	0.00	167.97	2,165.72	1,082.86	2,697.90	1,332.39	1.45	-0.30	0.077
48.00	-26.69	-1.78	0.00	-167.07	0.00	167.07	2,162.11	1,081.06	2,686.36	1,326.69	1.48	-0.31	0.077
48.50	-26.56	-1.78	0.00	-166.18	0.00	166.18	2,158.50	1,079.25	2,674.83	1,321.00	1.51	-0.31	0.076
49.00	-26.42	-1.77	0.00	-165.30	0.00	165.30	2,154.87	1,077.43	2,663.31	1,315.31	1.55	-0.31	0.076
49.50	-26.28	-1.77	0.00	-164.41	0.00	164.41	2,151.23	1,075.61	2,651.80	1,309.62	1.58	-0.32	0.076
50.00	-26.01	-1.76	0.00	-163.53	0.00	163.53	2,147.58	1,073.79	2,640.30	1,303.95	1.61	-0.32	0.076
50.50	-25.88	-1.75	0.00	-162.65	0.00	162.65	2,143.92	1,071.96	2,628.81	1,298.27	1.65	-0.33	0.076
51.00	-25.74	-1.75	0.00	-161.77	0.00	161.77	2,140.25	1,070.13	2,617.34	1,292.60	1.68	-0.33	0.075
51.50	-25.60	-1.74	0.00	-160.90	0.00	160.90	2,136.57	1,068.29	2,605.87	1,286.94	1.72	-0.33	0.075
52.00	-25.47	-1.74	0.00	-160.03	0.00	160.03	2,132.88	1,066.44	2,594.42	1,281.29	1.75	-0.34	0.075
52.50	-25.33	-1.74	0.00	-159.16	0.00	159.16	2,129.18	1,064.59	2,582.98	1,275.64	1.79	-0.34	0.075
53.00	-25.19	-1.73	0.00	-158.29	0.00	158.29	2,125.47	1,062.73	2,571.55	1,269.99	1.82	-0.34	0.075
53.50	-25.06	-1.73	0.00	-157.42	0.00	157.42	2,121.75	1,060.87	2,560.13	1,264.35	1.86	-0.35	0.074
54.00	-24.92	-1.72	0.00	-156.56	0.00	156.56	2,118.01	1,059.01	2,548.72	1,258.72	1.90	-0.35	0.074
54.50	-24.79	-1.72	0.00	-155.70	0.00	155.70	2,114.27	1,057.14	2,537.32	1,253.09	1.93	-0.36	0.074
55.00	-24.65	-1.71	0.00	-154.84	0.00	154.84	2,110.52	1,055.26	2,525.94	1,247.47	1.97	-0.36	0.074
55.50	-24.52	-1.71	0.00	-153.98	0.00	153.98	2,106.75	1,053.38	2,514.57	1,241.85	2.01	-0.36	0.074
56.00	-24.38	-1.71	0.00	-153.13	0.00	153.13	2,102.98	1,051.49	2,503.21	1,236.24	2.05	-0.37	0.073
56.50	-24.25	-1.70	0.00	-152.27	0.00	152.27	2,099.20	1,049.60	2,491.86	1,230.64	2.09	-0.37	0.073
57.00	-24.11	-1.70	0.00	-151.42	0.00	151.42	2,095.40	1,047.70	2,480.53	1,225.04	2.12	-0.37	0.073
57.50	-23.98	-1.69	0.00	-150.58	0.00	150.58	2,091.60	1,045.80	2,469.21	1,219.45	2.16	-0.38	0.073
58.00	-23.84	-1.69	0.00	-149.73	0.00	149.73	2,087.78	1,043.89	2,457.90	1,213.86	2.20	-0.38	0.073

Site Number: 302494

Code: ANSI/TIA-222-G

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Site Name: Hddm - Haddam, CT

Engineering Number: OAA713049_C3_01

9/26/2017 3:57:31 PM

Customer: AT&T MOBILITY

58.50	-23.71	-1.68	0.00	-148.88	0.00	148.88	2,083.96	1,041.98	2,446.60	1,208.28	2.24	-0.39	0.072
59.00	-23.57	-1.68	0.00	-148.04	0.00	148.04	2,080.12	1,040.06	2,435.32	1,202.71	2.28	-0.39	0.072
59.50	-23.44	-1.68	0.00	-147.20	0.00	147.20	2,076.27	1,038.14	2,424.04	1,197.14	2.33	-0.39	0.072
60.00	-23.30	-1.67	0.00	-146.36	0.00	146.36	2,072.41	1,036.21	2,412.79	1,191.58	2.37	-0.40	0.072
60.50	-23.17	-1.67	0.00	-145.53	0.00	145.53	2,068.55	1,034.27	2,401.54	1,186.03	2.41	-0.40	0.072
61.00	-23.04	-1.67	0.00	-144.69	0.00	144.69	2,064.67	1,032.33	2,390.31	1,180.48	2.45	-0.40	0.071
61.50	-22.90	-1.66	0.00	-143.86	0.00	143.86	2,060.78	1,030.39	2,379.09	1,174.94	2.49	-0.41	0.071
62.00	-22.77	-1.66	0.00	-143.03	0.00	143.03	2,056.88	1,028.44	2,367.88	1,169.41	2.54	-0.41	0.071
62.50	-22.64	-1.65	0.00	-142.20	0.00	142.20	2,052.97	1,026.49	2,356.69	1,163.88	2.58	-0.42	0.071
63.00	-22.50	-1.65	0.00	-141.37	0.00	141.37	2,049.05	1,024.53	2,345.51	1,158.36	2.62	-0.42	0.071
63.50	-22.37	-1.65	0.00	-140.55	0.00	140.55	2,045.12	1,022.56	2,334.35	1,152.85	2.67	-0.42	0.070
64.00	-22.24	-1.64	0.00	-139.72	0.00	139.72	2,041.18	1,020.59	2,323.20	1,147.34	2.71	-0.43	0.070
64.50	-22.11	-1.64	0.00	-138.90	0.00	138.90	2,037.23	1,018.62	2,312.06	1,141.84	2.76	-0.43	0.070
65.00	-21.97	-1.64	0.00	-138.08	0.00	138.08	2,033.27	1,016.64	2,300.94	1,136.35	2.80	-0.44	0.070
65.50	-21.84	-1.63	0.00	-137.26	0.00	137.26	2,029.30	1,014.65	2,289.83	1,130.86	2.85	-0.44	0.070
66.00	-21.71	-1.63	0.00	-136.44	0.00	136.44	2,025.32	1,012.66	2,278.74	1,125.38	2.90	-0.44	0.069
66.50	-21.58	-1.63	0.00	-135.63	0.00	135.63	2,021.33	1,010.66	2,267.65	1,119.91	2.94	-0.45	0.069
67.00	-21.45	-1.63	0.00	-134.81	0.00	134.81	2,016.97	1,008.48	2,256.19	1,114.25	2.99	-0.45	0.069
67.50	-21.32	-1.62	0.00	-134.00	0.00	134.00	2,011.16	1,005.58	2,243.13	1,107.80	3.04	-0.45	0.069
68.00	-21.18	-1.62	0.00	-133.19	0.00	133.19	2,005.34	1,002.67	2,230.12	1,101.37	3.08	-0.46	0.069
68.50	-21.05	-1.62	0.00	-132.38	0.00	132.38	1,999.53	999.77	2,217.14	1,094.96	3.13	-0.46	0.069
69.00	-20.92	-1.62	0.00	-131.57	0.00	131.57	1,993.72	996.86	2,204.19	1,088.57	3.18	-0.47	0.068
69.50	-20.79	-1.61	0.00	-130.76	0.00	130.76	1,987.91	993.96	2,191.29	1,082.20	3.23	-0.47	0.068
70.00	-20.61	-1.61	0.00	-129.95	0.00	129.95	1,982.10	991.05	2,178.42	1,075.84	3.28	-0.47	0.068
70.50	-20.44	-1.61	0.00	-129.15	0.00	129.15	1,976.29	988.14	2,165.59	1,069.51	3.33	-0.48	0.067
71.00	-20.26	-1.60	0.00	-128.35	0.00	128.35	1,970.48	985.24	2,152.80	1,063.19	3.38	-0.48	0.067
71.50	-20.09	-1.60	0.00	-127.54	0.00	127.54	1,964.67	982.33	2,140.05	1,056.89	3.43	-0.49	0.067
72.00	-19.91	-1.60	0.00	-126.74	0.00	126.74	1,958.85	979.43	2,127.34	1,050.61	3.48	-0.49	0.066
72.50	-19.73	-1.60	0.00	-125.94	0.00	125.94	1,953.04	976.52	2,114.66	1,044.35	3.53	-0.49	0.066
73.00	-19.62	-1.60	0.00	-125.14	0.00	125.14	1,947.23	973.62	2,102.02	1,038.11	3.59	-0.50	0.066
73.33	-19.56	-1.60	0.00	-124.62	0.00	124.62	1,943.40	971.70	2,093.70	1,034.00	3.62	-0.50	0.066
73.33	-19.56	-1.60	0.00	-124.62	0.00	124.62	1,943.40	971.70	2,093.70	1,034.00	3.62	-0.50	0.072
73.50	-19.45	-1.59	0.00	-124.35	0.00	124.35	1,473.96	736.98	1,624.57	802.32	3.64	-0.50	0.086
74.00	-19.34	-1.59	0.00	-123.55	0.00	123.55	1,471.41	735.71	1,616.97	798.56	3.69	-0.51	0.086
74.50	-19.23	-1.59	0.00	-122.75	0.00	122.75	1,468.85	734.43	1,609.36	794.80	3.74	-0.51	0.085
75.00	-19.12	-1.59	0.00	-121.95	0.00	121.95	1,466.28	733.14	1,601.77	791.05	3.80	-0.51	0.085
75.50	-19.01	-1.59	0.00	-121.16	0.00	121.16	1,463.70	731.85	1,594.18	787.30	3.85	-0.52	0.085
76.00	-18.90	-1.59	0.00	-120.36	0.00	120.36	1,461.11	730.55	1,586.59	783.56	3.91	-0.52	0.085
76.50	-18.78	-1.59	0.00	-119.56	0.00	119.56	1,458.51	729.25	1,579.01	779.81	3.96	-0.53	0.084
77.00	-18.67	-1.60	0.00	-118.76	0.00	118.76	1,455.89	727.95	1,571.44	776.07	4.02	-0.53	0.084
77.50	-18.56	-1.60	0.00	-117.97	0.00	117.97	1,453.27	726.64	1,563.87	772.34	4.07	-0.54	0.084
78.00	-18.45	-1.60	0.00	-117.17	0.00	117.17	1,450.64	725.32	1,556.31	768.60	4.13	-0.54	0.083
78.50	-18.34	-1.60	0.00	-116.37	0.00	116.37	1,447.99	724.00	1,548.75	764.87	4.19	-0.55	0.083
79.00	-18.23	-1.60	0.00	-115.57	0.00	115.57	1,445.34	722.67	1,541.20	761.14	4.24	-0.55	0.083
79.50	-18.12	-1.60	0.00	-114.77	0.00	114.77	1,442.68	721.34	1,533.65	757.41	4.30	-0.56	0.082
80.00	-18.01	-1.60	0.00	-113.97	0.00	113.97	1,440.00	720.00	1,526.12	753.69	4.36	-0.56	0.082
80.50	-17.90	-1.60	0.00	-113.17	0.00	113.17	1,437.32	718.66	1,518.59	749.97	4.42	-0.57	0.082
81.00	-17.79	-1.60	0.00	-112.37	0.00	112.37	1,434.62	717.31	1,511.06	746.26	4.48	-0.57	0.081
81.50	-17.68	-1.61	0.00	-111.57	0.00	111.57	1,431.91	715.96	1,503.54	742.54	4.54	-0.57	0.081
82.00	-17.57	-1.61	0.00	-110.76	0.00	110.76	1,429.20	714.60	1,496.03	738.83	4.60	-0.58	0.081
82.50	-17.47	-1.61	0.00	-109.96	0.00	109.96	1,426.47	713.23	1,488.53	735.13	4.66	-0.58	0.080
83.00	-17.36	-1.61	0.00	-109.15	0.00	109.15	1,423.73	711.87	1,481.03	731.43	4.72	-0.59	0.080
83.50	-17.25	-1.61	0.00	-108.35	0.00	108.35	1,420.98	710.49	1,473.54	727.73	4.78	-0.59	0.080
84.00	-17.14	-1.62	0.00	-107.54	0.00	107.54	1,418.23	709.11	1,466.06	724.03	4.85	-0.60	0.079
84.50	-17.03	-1.62	0.00	-106.73	0.00	106.73	1,415.46	707.73	1,458.58	720.34	4.91	-0.60	0.079
85.00	-16.92	-1.62	0.00	-105.92	0.00	105.92	1,412.68	706.34	1,451.11	716.65	4.97	-0.61	0.079
85.50	-16.81	-1.63	0.00	-105.11	0.00	105.11	1,409.89	704.94	1,443.65	712.97	5.04	-0.61	0.078
86.00	-16.70	-1.63	0.00	-104.30	0.00	104.30	1,407.09	703.54	1,436.20	709.28	5.10	-0.62	0.078
86.50	-16.60	-1.63	0.00	-103.49	0.00	103.49	1,404.28	702.14	1,428.75	705.61	5.17	-0.62	0.078
87.00	-16.49	-1.63	0.00	-102.67	0.00	102.67	1,401.46	700.73	1,421.32	701.93	5.23	-0.63	0.077
87.50	-16.38	-1.64	0.00	-101.85	0.00	101.85	1,398.63	699.31	1,413.89	698.26	5.30	-0.63	0.077
88.00	-16.27	-1.64	0.00	-101.03	0.00	101.03	1,395.79	697.89	1,406.46	694.60	5.36	-0.63	0.076
88.50	-16.17	-1.64	0.00	-100.21	0.00	100.21	1,392.93	696.47	1,399.05	690.94	5.43	-0.64	0.076
89.00	-16.06	-1.65	0.00	-99.39	0.00	99.39	1,390.07	695.04	1,391.64	687.28	5.50	-0.64	0.076

Site Number: 302494

Code: ANSI/TIA-222-G

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Site Name: Hddm - Haddam, CT

Engineering Number: OAA713049_C3_01

9/26/2017 3:57:31 PM

Customer: AT&T MOBILITY

89.50	-15.95	-1.65	0.00	-98.57	0.00	98.57	1,387.20	693.60	1,384.25	683.63	5.56	-0.65	0.075
90.00	-15.84	-1.65	0.00	-97.74	0.00	97.74	1,384.32	692.16	1,376.86	679.98	5.63	-0.65	0.075
90.50	-15.74	-1.66	0.00	-96.92	0.00	96.92	1,381.42	690.71	1,369.48	676.33	5.70	-0.66	0.075
91.00	-15.63	-1.66	0.00	-96.09	0.00	96.09	1,378.52	689.26	1,362.10	672.69	5.77	-0.66	0.074
91.50	-15.52	-1.67	0.00	-95.26	0.00	95.26	1,375.61	687.80	1,354.74	669.06	5.84	-0.67	0.074
92.00	-15.42	-1.67	0.00	-94.42	0.00	94.42	1,372.68	686.34	1,347.39	665.42	5.91	-0.67	0.073
92.50	-15.31	-1.67	0.00	-93.59	0.00	93.59	1,369.75	684.87	1,340.04	661.80	5.98	-0.68	0.073
93.00	-15.20	-1.68	0.00	-92.75	0.00	92.75	1,366.80	683.40	1,332.70	658.17	6.05	-0.68	0.073
93.50	-15.10	-1.68	0.00	-91.92	0.00	91.92	1,363.85	681.92	1,325.38	654.55	6.12	-0.68	0.072
94.00	-14.99	-1.68	0.00	-91.08	0.00	91.08	1,360.88	680.44	1,318.06	650.94	6.19	-0.69	0.072
94.50	-14.88	-1.69	0.00	-90.23	0.00	90.23	1,357.90	678.95	1,310.75	647.33	6.27	-0.69	0.071
95.00	-14.78	-1.69	0.00	-89.39	0.00	89.39	1,354.92	677.46	1,303.45	643.72	6.34	-0.70	0.071
95.50	-14.67	-1.70	0.00	-88.54	0.00	88.54	1,351.92	675.96	1,296.16	640.12	6.41	-0.70	0.071
96.00	-14.57	-1.70	0.00	-87.70	0.00	87.70	1,348.91	674.46	1,288.88	636.53	6.49	-0.71	0.070
96.50	-14.46	-1.70	0.00	-86.85	0.00	86.85	1,345.89	672.95	1,281.61	632.94	6.56	-0.71	0.070
97.00	-14.36	-1.71	0.00	-85.99	0.00	85.99	1,342.86	671.43	1,274.35	629.35	6.64	-0.72	0.069
97.50	-14.25	-1.71	0.00	-85.14	0.00	85.14	1,339.82	669.91	1,267.09	625.77	6.71	-0.72	0.069
98.00	-14.15	-1.72	0.00	-84.28	0.00	84.28	1,336.78	668.39	1,259.85	622.19	6.79	-0.73	0.068
98.50	-14.04	-1.72	0.00	-83.43	0.00	83.43	1,333.72	666.86	1,252.62	618.62	6.86	-0.73	0.068
99.00	-13.94	-1.72	0.00	-82.57	0.00	82.57	1,330.65	665.32	1,245.40	615.06	6.94	-0.73	0.067
99.50	-13.83	-1.73	0.00	-81.71	0.00	81.71	1,327.57	663.78	1,238.19	611.50	7.02	-0.74	0.067
100.00	-13.73	-1.73	0.00	-80.84	0.00	80.84	1,324.47	662.24	1,230.99	607.94	7.10	-0.74	0.066
100.50	-13.62	-1.73	0.00	-79.98	0.00	79.98	1,321.37	660.69	1,223.80	604.39	7.17	-0.75	0.066
101.00	-13.52	-1.74	0.00	-79.11	0.00	79.11	1,318.26	659.13	1,216.62	600.84	7.25	-0.75	0.066
101.50	-13.41	-1.74	0.00	-78.24	0.00	78.24	1,315.14	657.57	1,209.45	597.30	7.33	-0.76	0.065
102.00	-13.31	-1.74	0.00	-77.37	0.00	77.37	1,312.01	656.00	1,202.30	593.77	7.41	-0.76	0.065
102.50	-13.21	-1.75	0.00	-76.50	0.00	76.50	1,308.86	654.43	1,195.15	590.24	7.49	-0.77	0.064
103.00	-13.10	-1.75	0.00	-75.63	0.00	75.63	1,305.71	652.86	1,188.02	586.72	7.57	-0.77	0.064
103.50	-13.00	-1.75	0.00	-74.75	0.00	74.75	1,302.55	651.27	1,180.89	583.20	7.65	-0.77	0.063
104.00	-12.89	-1.76	0.00	-73.87	0.00	73.87	1,299.37	649.69	1,173.78	579.69	7.73	-0.78	0.063
104.50	-12.79	-1.76	0.00	-72.99	0.00	72.99	1,296.19	648.09	1,166.68	576.18	7.82	-0.78	0.062
105.00	-12.69	-1.76	0.00	-72.11	0.00	72.11	1,292.99	646.50	1,159.59	572.68	7.90	-0.79	0.062
105.50	-12.58	-1.77	0.00	-71.23	0.00	71.23	1,288.98	644.49	1,151.78	568.82	7.98	-0.79	0.061
106.00	-12.48	-1.77	0.00	-70.35	0.00	70.35	1,284.33	642.16	1,143.44	564.70	8.06	-0.80	0.061
106.50	-12.38	-1.77	0.00	-69.46	0.00	69.46	1,279.68	639.84	1,135.13	560.60	8.15	-0.80	0.060
107.00	-12.28	-1.77	0.00	-68.58	0.00	68.58	1,275.03	637.51	1,126.85	556.51	8.23	-0.80	0.060
107.50	-12.17	-1.78	0.00	-67.69	0.00	67.69	1,270.38	635.19	1,118.60	552.44	8.32	-0.81	0.059
108.00	-12.07	-1.78	0.00	-66.80	0.00	66.80	1,265.73	632.87	1,110.38	548.38	8.40	-0.81	0.059
108.50	-11.97	-1.78	0.00	-65.91	0.00	65.91	1,261.08	630.54	1,102.19	544.33	8.49	-0.82	0.058
109.00	-11.87	-1.78	0.00	-65.02	0.00	65.02	1,256.43	628.22	1,094.04	540.30	8.57	-0.82	0.058
109.50	-11.76	-1.78	0.00	-64.13	0.00	64.13	1,251.78	625.89	1,085.91	536.29	8.66	-0.83	0.057
110.00	-11.68	-1.79	0.00	-63.24	0.00	63.24	1,247.14	623.57	1,077.81	532.29	8.75	-0.83	0.057
110.00	-11.68	-1.79	0.00	-63.24	0.00	63.24	853.24	426.62	741.79	366.34	8.75	-0.83	0.000
110.50	-11.59	-1.79	0.00	-62.35	0.00	62.35	851.46	425.73	737.46	364.21	8.83	-0.83	0.079
111.00	-11.51	-1.79	0.00	-61.45	0.00	61.45	849.67	424.84	733.15	362.07	8.92	-0.84	0.079
111.50	-11.42	-1.79	0.00	-60.56	0.00	60.56	847.87	423.94	728.83	359.94	9.01	-0.84	0.078
112.00	-11.34	-1.79	0.00	-59.66	0.00	59.66	846.07	423.03	724.52	357.81	9.10	-0.85	0.077
112.50	-11.26	-1.79	0.00	-58.77	0.00	58.77	844.25	422.12	720.21	355.68	9.19	-0.86	0.076
113.00	-11.17	-1.79	0.00	-57.87	0.00	57.87	842.42	421.21	715.90	353.56	9.28	-0.86	0.075
113.50	-11.09	-1.79	0.00	-56.97	0.00	56.97	840.58	420.29	711.60	351.43	9.37	-0.87	0.074
114.00	-11.00	-1.80	0.00	-56.08	0.00	56.08	838.73	419.36	707.30	349.31	9.46	-0.87	0.073
114.50	-10.92	-1.80	0.00	-55.18	0.00	55.18	836.87	418.43	703.00	347.19	9.55	-0.88	0.073
115.00	-10.83	-1.80	0.00	-54.28	0.00	54.28	834.99	417.50	698.71	345.06	9.64	-0.88	0.072
115.50	-10.75	-1.80	0.00	-53.38	0.00	53.38	833.11	416.56	694.42	342.95	9.73	-0.89	0.071
116.00	-10.67	-1.80	0.00	-52.48	0.00	52.48	831.22	415.61	690.13	340.83	9.83	-0.89	0.070
116.50	-10.61	-1.80	0.00	-51.59	0.00	51.59	829.32	414.66	685.85	338.71	9.92	-0.90	0.069
116.50	-10.61	-1.80	0.00	-51.59	0.00	51.59	829.32	414.66	685.85	338.71	9.92	-0.90	0.165
117.00	-10.56	-1.80	0.00	-50.69	0.00	50.69	827.41	413.70	681.57	336.60	10.01	-0.90	0.163
117.50	-10.51	-1.80	0.00	-49.79	0.00	49.79	825.48	412.74	677.29	334.49	10.11	-0.91	0.162
118.00	-10.46	-1.80	0.00	-48.89	0.00	48.89	823.55	411.77	673.02	332.38	10.21	-0.92	0.160
118.50	-10.40	-1.80	0.00	-47.99	0.00	47.99	821.61	410.80	668.75	330.27	10.30	-0.93	0.158
119.00	-10.35	-1.80	0.00	-47.09	0.00	47.09	819.65	409.83	664.49	328.17	10.40	-0.95	0.156
119.50	-10.30	-1.80	0.00	-46.19	0.00	46.19	817.69	408.84	660.23	326.06	10.50	-0.96	0.154
120.00	-10.25	-1.80	0.00	-45.29	0.00	45.29	815.71	407.86	655.98	323.96	10.60	-0.97	0.152

Site Number: 302494

Code: ANSI/TIA-222-G

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Site Name: Hddm - Haddam, CT

Engineering Number: OAA713049_C3_01

9/26/2017 3:57:31 PM

Customer: AT&T MOBILITY

120.50	-10.20	-1.80	0.00	-44.39	0.00	44.39	813.73	406.86	651.73	321.87	10.70	-0.98	0.150
121.00	-10.15	-1.80	0.00	-43.49	0.00	43.49	811.73	405.86	647.49	319.77	10.81	-0.99	0.149
121.50	-10.09	-1.80	0.00	-42.59	0.00	42.59	809.72	404.86	643.25	317.68	10.91	-1.00	0.147
122.00	-10.04	-1.80	0.00	-41.69	0.00	41.69	807.71	403.85	639.01	315.58	11.02	-1.01	0.145
122.50	-9.99	-1.80	0.00	-40.79	0.00	40.79	805.68	402.84	634.78	313.49	11.12	-1.02	0.143
123.00	-9.94	-1.80	0.00	-39.89	0.00	39.89	803.64	401.82	630.56	311.41	11.23	-1.03	0.140
123.50	-9.89	-1.80	0.00	-38.99	0.00	38.99	801.59	400.80	626.34	309.32	11.34	-1.04	0.138
124.00	-9.84	-1.80	0.00	-38.09	0.00	38.09	799.54	399.77	622.12	307.24	11.45	-1.06	0.136
124.50	-9.79	-1.80	0.00	-37.19	0.00	37.19	797.47	398.73	617.91	305.16	11.56	-1.07	0.134
125.00	-9.74	-1.80	0.00	-36.29	0.00	36.29	795.39	397.69	613.71	303.09	11.67	-1.08	0.132
125.50	-9.69	-1.80	0.00	-35.39	0.00	35.39	793.30	396.65	609.51	301.01	11.79	-1.09	0.130
126.00	-9.64	-1.79	0.00	-34.49	0.00	34.49	791.20	395.60	605.32	298.94	11.90	-1.10	0.128
126.50	-9.59	-1.79	0.00	-33.59	0.00	33.59	789.09	394.54	601.13	296.88	12.02	-1.11	0.125
127.00	-9.54	-1.79	0.00	-32.70	0.00	32.70	786.97	393.48	596.95	294.81	12.13	-1.12	0.123
127.50	-9.49	-1.79	0.00	-31.80	0.00	31.80	784.84	392.42	592.78	292.75	12.25	-1.12	0.121
128.00	-9.44	-1.79	0.00	-30.91	0.00	30.91	782.69	391.35	588.61	290.69	12.37	-1.13	0.118
128.50	-9.39	-1.78	0.00	-30.02	0.00	30.02	780.54	390.27	584.44	288.64	12.49	-1.14	0.116
129.00	-9.34	-1.78	0.00	-29.12	0.00	29.12	778.38	389.19	580.29	286.58	12.61	-1.15	0.114
129.50	-9.29	-1.78	0.00	-28.23	0.00	28.23	776.21	388.10	576.14	284.53	12.73	-1.16	0.111
130.00	-9.24	-1.77	0.00	-27.35	0.00	27.35	774.02	387.01	572.00	282.49	12.85	-1.17	0.109
130.50	-9.19	-1.77	0.00	-26.46	0.00	26.46	771.83	385.91	567.86	280.44	12.98	-1.18	0.106
131.00	-5.95	-1.46	0.00	-25.57	0.00	25.57	769.63	384.81	563.73	278.40	13.10	-1.19	0.100
131.50	-5.90	-1.45	0.00	-24.84	0.00	24.84	767.41	383.71	559.60	276.37	13.22	-1.20	0.098
132.00	-5.86	-1.45	0.00	-24.12	0.00	24.12	765.19	382.59	555.49	274.33	13.35	-1.20	0.096
132.50	-5.82	-1.45	0.00	-23.39	0.00	23.39	762.95	381.48	551.38	272.31	13.48	-1.21	0.094
133.00	-5.77	-1.44	0.00	-22.67	0.00	22.67	760.71	380.35	547.28	270.28	13.60	-1.22	0.091
133.50	-5.73	-1.44	0.00	-21.95	0.00	21.95	758.45	379.23	543.18	268.26	13.73	-1.23	0.089
134.00	-5.69	-1.43	0.00	-21.23	0.00	21.23	756.18	378.09	539.09	266.24	13.86	-1.23	0.087
134.50	-5.64	-1.43	0.00	-20.51	0.00	20.51	753.91	376.95	535.01	264.22	13.99	-1.24	0.085
135.00	-5.60	-1.42	0.00	-19.80	0.00	19.80	751.62	375.81	530.94	262.21	14.12	-1.25	0.083
135.50	-5.56	-1.42	0.00	-19.09	0.00	19.09	749.32	374.66	526.87	260.20	14.25	-1.26	0.081
136.00	-5.51	-1.41	0.00	-18.38	0.00	18.38	747.01	373.51	522.82	258.20	14.38	-1.26	0.079
136.50	-5.47	-1.41	0.00	-17.67	0.00	17.67	744.70	372.35	518.77	256.20	14.52	-1.27	0.076
137.00	-5.43	-1.40	0.00	-16.97	0.00	16.97	742.37	371.18	514.72	254.20	14.65	-1.28	0.074
137.50	-5.39	-1.40	0.00	-16.26	0.00	16.26	740.03	370.01	510.69	252.21	14.78	-1.28	0.072
138.00	-5.34	-1.39	0.00	-15.57	0.00	15.57	737.68	368.84	506.66	250.22	14.92	-1.29	0.069
138.50	-5.30	-1.38	0.00	-14.87	0.00	14.87	735.32	367.66	502.65	248.24	15.05	-1.30	0.067
139.00	-5.26	-1.38	0.00	-14.18	0.00	14.18	732.95	366.47	498.64	246.26	15.19	-1.30	0.065
139.50	-5.22	-1.37	0.00	-13.49	0.00	13.49	730.57	365.28	494.64	244.28	15.33	-1.31	0.062
140.00	-5.18	-1.37	0.00	-12.80	0.00	12.80	728.18	364.09	490.64	242.31	15.46	-1.31	0.060
140.50	-5.14	-1.36	0.00	-12.12	0.00	12.12	725.44	362.72	486.44	240.23	15.60	-1.32	0.058
141.00	-5.02	-1.34	0.00	-11.44	0.00	11.44	721.95	360.98	481.74	237.92	15.74	-1.32	0.055
141.50	-4.98	-1.33	0.00	-10.77	0.00	10.77	718.47	359.23	477.08	235.61	15.88	-1.33	0.053
142.00	-4.94	-1.32	0.00	-10.11	0.00	10.11	714.98	357.49	472.43	233.32	16.02	-1.33	0.050
142.50	-4.90	-1.32	0.00	-9.45	0.00	9.45	711.49	355.75	467.81	231.03	16.16	-1.34	0.048
143.00	-4.86	-1.31	0.00	-8.79	0.00	8.79	708.01	354.00	463.21	228.76	16.30	-1.34	0.045
143.50	-4.82	-1.30	0.00	-8.13	0.00	8.13	704.52	352.26	458.63	226.50	16.44	-1.34	0.043
144.00	-4.79	-1.29	0.00	-7.48	0.00	7.48	701.03	350.52	454.07	224.25	16.58	-1.35	0.040
144.50	-4.75	-1.29	0.00	-6.83	0.00	6.83	697.55	348.77	449.54	222.01	16.72	-1.35	0.038
145.00	-4.71	-1.28	0.00	-6.19	0.00	6.19	694.06	347.03	445.03	219.78	16.86	-1.35	0.035
145.50	-4.67	-1.27	0.00	-5.55	0.00	5.55	690.57	345.29	440.55	217.57	17.01	-1.36	0.032
146.00	-4.64	-1.26	0.00	-4.92	0.00	4.92	687.09	343.54	436.08	215.36	17.15	-1.36	0.030
146.50	-4.60	-1.25	0.00	-4.29	0.00	4.29	683.60	341.80	431.64	213.17	17.29	-1.36	0.027
147.00	-4.56	-1.24	0.00	-3.66	0.00	3.66	680.11	340.06	427.22	210.99	17.43	-1.36	0.024
147.50	-4.52	-1.23	0.00	-3.04	0.00	3.04	676.63	338.31	422.83	208.82	17.58	-1.37	0.021
148.00	-4.49	-1.23	0.00	-2.42	0.00	2.42	673.14	336.57	418.45	206.66	17.72	-1.37	0.018
148.50	-4.45	-1.22	0.00	-1.81	0.00	1.81	669.65	334.83	414.10	204.51	17.86	-1.37	0.016
149.00	-4.41	-1.21	0.00	-1.20	0.00	1.20	666.16	333.08	409.78	202.37	18.01	-1.37	0.013
149.50	-4.38	-1.20	0.00	-0.60	0.00	0.60	662.68	331.34	405.47	200.25	18.15	-1.37	0.010
150.00	0.00	-1.09	0.00	0.00	0.00	0.00	659.19	329.60	401.19	198.13	18.29	-1.37	0.000

Site Number: 302494

Code: ANSI/TIA-222-G

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Site Name: Hddm - Haddam, CT

Engineering Number: OAA713049_C3_01

9/26/2017 3:57:31 PM

Customer: AT&T MOBILITY

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

Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-29.52	-2.14	0.00	-256.21	0.00	256.21	3,157.17	1,578.58	4,812.28	2,376.61	0.00	0.00	0.072
0.50	-29.42	-2.14	0.00	-255.14	0.00	255.14	3,152.93	1,576.47	4,795.55	2,368.34	0.00	0.00	0.072
1.00	-29.31	-2.14	0.00	-254.07	0.00	254.07	3,148.69	1,574.34	4,778.83	2,360.09	0.00	-0.01	0.072
1.50	-29.21	-2.14	0.00	-253.00	0.00	253.00	3,144.43	1,572.22	4,762.13	2,351.84	0.00	-0.01	0.071
2.00	-29.10	-2.14	0.00	-251.93	0.00	251.93	3,140.17	1,570.08	4,745.43	2,343.59	0.00	-0.01	0.071
2.50	-29.00	-2.14	0.00	-250.86	0.00	250.86	3,135.89	1,567.94	4,728.75	2,335.35	0.00	-0.01	0.071
3.00	-28.90	-2.14	0.00	-249.79	0.00	249.79	3,131.60	1,565.80	4,712.08	2,327.12	0.01	-0.02	0.071
3.50	-28.80	-2.14	0.00	-248.72	0.00	248.72	3,127.31	1,563.65	4,695.42	2,318.89	0.01	-0.02	0.071
4.00	-28.69	-2.14	0.00	-247.65	0.00	247.65	3,123.00	1,561.50	4,678.77	2,310.67	0.01	-0.02	0.071
4.50	-28.59	-2.14	0.00	-246.58	0.00	246.58	3,118.68	1,559.34	4,662.14	2,302.45	0.01	-0.03	0.071
5.00	-28.49	-2.14	0.00	-245.51	0.00	245.51	3,114.35	1,557.18	4,645.51	2,294.24	0.02	-0.03	0.071
5.50	-28.38	-2.13	0.00	-244.45	0.00	244.45	3,110.02	1,555.01	4,628.91	2,286.04	0.02	-0.03	0.070
6.00	-28.28	-2.13	0.00	-243.38	0.00	243.38	3,105.67	1,552.83	4,612.31	2,277.85	0.02	-0.03	0.070
6.50	-28.18	-2.13	0.00	-242.31	0.00	242.31	3,101.31	1,550.65	4,595.73	2,269.66	0.03	-0.04	0.070
7.00	-28.08	-2.13	0.00	-241.25	0.00	241.25	3,096.94	1,548.47	4,579.16	2,261.47	0.03	-0.04	0.070
7.50	-27.98	-2.13	0.00	-240.18	0.00	240.18	3,092.56	1,546.28	4,562.60	2,253.30	0.03	-0.04	0.070
8.00	-27.85	-2.12	0.00	-239.12	0.00	239.12	3,088.17	1,544.08	4,546.06	2,245.13	0.04	-0.05	0.070
8.50	-27.73	-2.12	0.00	-238.06	0.00	238.06	3,083.77	1,541.88	4,529.53	2,236.96	0.04	-0.05	0.070
9.00	-27.61	-2.12	0.00	-237.00	0.00	237.00	3,079.36	1,539.68	4,513.01	2,228.81	0.05	-0.05	0.070
9.50	-27.49	-2.11	0.00	-235.94	0.00	235.94	3,074.94	1,537.47	4,496.51	2,220.66	0.05	-0.05	0.069
10.00	-27.37	-2.11	0.00	-234.89	0.00	234.89	3,070.50	1,535.25	4,480.02	2,212.51	0.06	-0.06	0.069
10.50	-27.25	-2.11	0.00	-233.83	0.00	233.83	3,066.06	1,533.03	4,463.54	2,204.38	0.07	-0.06	0.069
11.00	-27.13	-2.10	0.00	-232.78	0.00	232.78	3,061.61	1,530.80	4,447.08	2,196.25	0.07	-0.06	0.069
11.50	-27.01	-2.10	0.00	-231.73	0.00	231.73	3,057.15	1,528.57	4,430.63	2,188.12	0.08	-0.07	0.069
12.00	-26.90	-2.09	0.00	-230.68	0.00	230.68	3,052.67	1,526.34	4,414.20	2,180.01	0.09	-0.07	0.069
12.50	-26.78	-2.09	0.00	-229.63	0.00	229.63	3,048.19	1,524.09	4,397.78	2,171.90	0.09	-0.07	0.069
13.00	-26.66	-2.09	0.00	-228.59	0.00	228.59	3,043.69	1,521.85	4,381.37	2,163.80	0.10	-0.08	0.068
13.50	-26.54	-2.08	0.00	-227.54	0.00	227.54	3,039.19	1,519.59	4,364.98	2,155.70	0.11	-0.08	0.068
14.00	-26.42	-2.08	0.00	-226.50	0.00	226.50	3,034.67	1,517.34	4,348.61	2,147.61	0.12	-0.08	0.068
14.50	-26.30	-2.07	0.00	-225.46	0.00	225.46	3,030.15	1,515.07	4,332.24	2,139.53	0.13	-0.08	0.068
15.00	-26.18	-2.07	0.00	-224.43	0.00	224.43	3,025.61	1,512.81	4,315.90	2,131.46	0.14	-0.09	0.068
15.50	-26.06	-2.06	0.00	-223.39	0.00	223.39	3,021.07	1,510.53	4,299.57	2,123.39	0.15	-0.09	0.068
16.00	-25.95	-2.06	0.00	-222.36	0.00	222.36	3,016.51	1,508.25	4,283.25	2,115.33	0.16	-0.09	0.068
16.50	-25.83	-2.06	0.00	-221.33	0.00	221.33	3,011.94	1,505.97	4,266.95	2,107.28	0.17	-0.10	0.068
17.00	-25.71	-2.05	0.00	-220.30	0.00	220.30	3,007.37	1,503.68	4,250.66	2,099.24	0.18	-0.10	0.067
17.50	-25.59	-2.05	0.00	-219.28	0.00	219.28	3,002.78	1,501.39	4,234.39	2,091.20	0.19	-0.10	0.067
18.00	-25.47	-2.04	0.00	-218.25	0.00	218.25	2,998.18	1,499.09	4,218.13	2,083.18	0.20	-0.10	0.067
18.50	-25.36	-2.04	0.00	-217.23	0.00	217.23	2,993.57	1,496.79	4,201.89	2,075.15	0.21	-0.11	0.067
19.00	-25.24	-2.03	0.00	-216.21	0.00	216.21	2,988.95	1,494.48	4,185.66	2,067.14	0.22	-0.11	0.067
19.50	-25.12	-2.03	0.00	-215.20	0.00	215.20	2,984.32	1,492.16	4,169.45	2,059.13	0.23	-0.11	0.067
20.00	-25.00	-2.02	0.00	-214.18	0.00	214.18	2,979.68	1,489.84	4,153.25	2,051.14	0.24	-0.12	0.067
20.50	-24.89	-2.02	0.00	-213.17	0.00	213.17	2,975.03	1,487.52	4,137.08	2,043.15	0.26	-0.12	0.066
21.00	-24.77	-2.01	0.00	-212.16	0.00	212.16	2,970.37	1,485.19	4,120.91	2,035.16	0.27	-0.12	0.066
21.50	-24.65	-2.01	0.00	-211.15	0.00	211.15	2,965.70	1,482.85	4,104.77	2,027.19	0.28	-0.13	0.066
22.00	-24.54	-2.01	0.00	-210.15	0.00	210.15	2,961.02	1,480.51	4,088.63	2,019.22	0.29	-0.13	0.066
22.50	-24.42	-2.00	0.00	-209.15	0.00	209.15	2,956.33	1,478.16	4,072.52	2,011.26	0.31	-0.13	0.066
23.00	-24.30	-2.00	0.00	-208.15	0.00	208.15	2,951.62	1,475.81	4,056.42	2,003.31	0.32	-0.13	0.066
23.50	-24.19	-1.99	0.00	-207.15	0.00	207.15	2,946.91	1,473.46	4,040.34	1,995.37	0.34	-0.14	0.066
24.00	-24.07	-1.99	0.00	-206.15	0.00	206.15	2,942.19	1,471.09	4,024.27	1,987.44	0.35	-0.14	0.065
24.50	-23.96	-1.98	0.00	-205.16	0.00	205.16	2,937.46	1,468.73	4,008.22	1,979.51	0.37	-0.14	0.065
25.00	-23.84	-1.98	0.00	-204.17	0.00	204.17	2,932.71	1,466.36	3,992.19	1,971.59	0.38	-0.15	0.065
25.50	-23.72	-1.97	0.00	-203.18	0.00	203.18	2,927.96	1,463.98	3,976.18	1,963.68	0.40	-0.15	0.065
26.00	-23.61	-1.97	0.00	-202.20	0.00	202.20	2,923.19	1,461.60	3,960.18	1,955.78	0.41	-0.15	0.065
26.50	-23.49	-1.96	0.00	-201.21	0.00	201.21	2,918.42	1,459.21	3,944.20	1,947.89	0.43	-0.16	0.065
27.00	-23.38	-1.96	0.00	-200.23	0.00	200.23	2,913.63	1,456.82	3,928.23	1,940.01	0.45	-0.16	0.065
27.50	-23.26	-1.95	0.00	-199.25	0.00	199.25	2,910.08	1,455.04	3,913.96	1,932.96	0.46	-0.16	0.064

Site Number: 302494

Code: ANSI/TIA-222-G

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Site Name: Hddm - Haddam, CT

Engineering Number: OAA713049_C3_01

9/26/2017 3:57:31 PM

Customer: AT&T MOBILITY

28.00	-23.15	-1.95	0.00	-198.28	0.00	198.28	2,903.11	1,451.55	3,895.11	1,923.65	0.48	-0.16	0.064
28.50	-23.03	-1.94	0.00	-197.30	0.00	197.30	2,896.13	1,448.07	3,876.32	1,914.37	0.50	-0.17	0.064
29.00	-22.92	-1.94	0.00	-196.33	0.00	196.33	2,889.16	1,444.58	3,857.57	1,905.11	0.51	-0.17	0.064
29.50	-22.80	-1.93	0.00	-195.37	0.00	195.37	2,882.19	1,441.09	3,838.86	1,895.87	0.53	-0.17	0.064
30.00	-22.69	-1.93	0.00	-194.40	0.00	194.40	2,875.21	1,437.61	3,820.20	1,886.65	0.55	-0.18	0.064
30.50	-22.58	-1.92	0.00	-193.44	0.00	193.44	2,868.24	1,434.12	3,801.59	1,877.46	0.57	-0.18	0.064
31.00	-22.46	-1.92	0.00	-192.48	0.00	192.48	2,861.26	1,430.63	3,783.02	1,868.29	0.59	-0.18	0.064
31.50	-22.30	-1.91	0.00	-191.52	0.00	191.52	2,854.29	1,427.15	3,764.50	1,859.14	0.61	-0.19	0.064
32.00	-22.14	-1.90	0.00	-190.56	0.00	190.56	2,847.32	1,423.66	3,746.02	1,850.02	0.63	-0.19	0.063
32.50	-21.98	-1.89	0.00	-189.61	0.00	189.61	2,840.34	1,420.17	3,727.58	1,840.91	0.65	-0.19	0.063
33.00	-21.81	-1.88	0.00	-188.67	0.00	188.67	2,833.37	1,416.69	3,709.20	1,831.83	0.67	-0.20	0.063
33.50	-21.65	-1.88	0.00	-187.73	0.00	187.73	2,826.40	1,413.20	3,690.85	1,822.77	0.69	-0.20	0.062
34.00	-21.49	-1.87	0.00	-186.79	0.00	186.79	2,819.42	1,409.71	3,672.56	1,813.74	0.71	-0.20	0.062
34.50	-21.33	-1.86	0.00	-185.85	0.00	185.85	2,812.45	1,406.22	3,654.31	1,804.72	0.73	-0.20	0.062
35.00	-21.17	-1.85	0.00	-184.92	0.00	184.92	2,805.48	1,402.74	3,636.10	1,795.73	0.75	-0.21	0.062
35.50	-21.12	-1.85	0.00	-184.00	0.00	184.00	2,798.50	1,399.25	3,617.94	1,786.76	0.77	-0.21	0.062
35.67	-21.05	-1.85	0.00	-183.69	0.00	183.69	2,248.07	1,124.03	2,973.91	1,468.70	0.78	-0.21	0.071
36.00	-20.94	-1.84	0.00	-183.07	0.00	183.07	2,245.83	1,122.91	2,966.06	1,464.83	0.80	-0.21	0.071
36.50	-20.91	-1.84	0.00	-182.15	0.00	182.15	2,242.46	1,121.23	2,954.30	1,459.02	0.82	-0.22	0.071
36.67	-20.84	-1.84	0.00	-181.84	0.00	181.84	2,241.31	1,120.65	2,950.31	1,457.05	0.83	-0.22	0.071
36.67	-20.84	-1.84	0.00	-181.84	0.00	181.84	2,241.31	1,120.65	2,950.31	1,457.05	0.83	-0.22	0.076
37.00	-20.74	-1.83	0.00	-181.23	0.00	181.23	2,239.08	1,119.54	2,942.55	1,453.22	0.84	-0.22	0.076
37.50	-20.65	-1.83	0.00	-180.32	0.00	180.32	2,235.69	1,117.84	2,930.81	1,447.42	0.87	-0.22	0.076
38.00	-20.55	-1.82	0.00	-179.40	0.00	179.40	2,232.29	1,116.14	2,919.08	1,441.62	0.89	-0.23	0.076
38.50	-20.45	-1.82	0.00	-178.49	0.00	178.49	2,228.88	1,114.44	2,907.36	1,435.83	0.91	-0.23	0.076
39.00	-20.35	-1.81	0.00	-177.58	0.00	177.58	2,225.46	1,112.73	2,895.64	1,430.05	0.94	-0.23	0.075
39.50	-20.25	-1.81	0.00	-176.67	0.00	176.67	2,222.03	1,111.01	2,883.93	1,424.27	0.96	-0.24	0.075
40.00	-20.15	-1.81	0.00	-175.77	0.00	175.77	2,218.59	1,109.29	2,872.23	1,418.49	0.99	-0.24	0.075
40.50	-20.06	-1.80	0.00	-174.87	0.00	174.87	2,215.14	1,107.57	2,860.55	1,412.72	1.01	-0.24	0.075
41.00	-19.96	-1.80	0.00	-173.97	0.00	173.97	2,211.67	1,105.84	2,848.87	1,406.95	1.04	-0.25	0.075
41.50	-19.86	-1.79	0.00	-173.07	0.00	173.07	2,208.20	1,104.10	2,837.20	1,401.18	1.06	-0.25	0.075
42.00	-19.76	-1.79	0.00	-172.17	0.00	172.17	2,204.72	1,102.36	2,825.53	1,395.42	1.09	-0.26	0.074
42.50	-19.66	-1.78	0.00	-171.28	0.00	171.28	2,201.23	1,100.61	2,813.88	1,389.67	1.12	-0.26	0.074
43.00	-19.57	-1.78	0.00	-170.39	0.00	170.39	2,197.72	1,098.86	2,802.24	1,383.92	1.15	-0.26	0.074
43.50	-19.47	-1.77	0.00	-169.50	0.00	169.50	2,194.21	1,097.10	2,790.61	1,378.18	1.17	-0.27	0.074
44.00	-19.37	-1.77	0.00	-168.61	0.00	168.61	2,190.68	1,095.34	2,778.98	1,372.44	1.20	-0.27	0.074
44.50	-19.28	-1.76	0.00	-167.73	0.00	167.73	2,187.15	1,093.57	2,767.37	1,366.70	1.23	-0.27	0.073
45.00	-19.18	-1.76	0.00	-166.84	0.00	166.84	2,183.60	1,091.80	2,755.77	1,360.97	1.26	-0.28	0.073
45.50	-19.08	-1.76	0.00	-165.96	0.00	165.96	2,180.05	1,090.02	2,744.17	1,355.24	1.29	-0.28	0.073
46.00	-18.99	-1.75	0.00	-165.09	0.00	165.09	2,176.48	1,088.24	2,732.59	1,349.52	1.32	-0.28	0.073
46.50	-18.89	-1.75	0.00	-164.21	0.00	164.21	2,172.91	1,086.45	2,721.02	1,343.81	1.35	-0.29	0.073
47.00	-18.79	-1.74	0.00	-163.34	0.00	163.34	2,169.32	1,084.66	2,709.45	1,338.10	1.38	-0.29	0.072
47.50	-18.70	-1.74	0.00	-162.47	0.00	162.47	2,165.72	1,082.86	2,697.90	1,332.39	1.41	-0.29	0.072
48.00	-18.60	-1.73	0.00	-161.60	0.00	161.60	2,162.11	1,081.06	2,686.36	1,326.69	1.44	-0.30	0.072
48.50	-18.50	-1.73	0.00	-160.73	0.00	160.73	2,158.50	1,079.25	2,674.83	1,321.00	1.47	-0.30	0.072
49.00	-18.41	-1.72	0.00	-159.87	0.00	159.87	2,154.87	1,077.43	2,663.31	1,315.31	1.50	-0.31	0.072
49.50	-18.31	-1.72	0.00	-159.01	0.00	159.01	2,151.23	1,075.61	2,651.80	1,309.62	1.53	-0.31	0.072
50.00	-18.13	-1.71	0.00	-158.15	0.00	158.15	2,147.58	1,073.79	2,640.30	1,303.95	1.57	-0.31	0.071
50.50	-18.03	-1.70	0.00	-157.29	0.00	157.29	2,143.92	1,071.96	2,628.81	1,298.27	1.60	-0.32	0.071
51.00	-17.94	-1.70	0.00	-156.44	0.00	156.44	2,140.25	1,070.13	2,617.34	1,292.60	1.63	-0.32	0.071
51.50	-17.84	-1.69	0.00	-155.59	0.00	155.59	2,136.57	1,068.29	2,605.87	1,286.94	1.67	-0.32	0.071
52.00	-17.75	-1.69	0.00	-154.75	0.00	154.75	2,132.88	1,066.44	2,594.42	1,281.29	1.70	-0.33	0.071
52.50	-17.65	-1.68	0.00	-153.90	0.00	153.90	2,129.18	1,064.59	2,582.98	1,275.64	1.74	-0.33	0.070
53.00	-17.56	-1.68	0.00	-153.06	0.00	153.06	2,125.47	1,062.73	2,571.55	1,269.99	1.77	-0.33	0.070
53.50	-17.46	-1.68	0.00	-152.22	0.00	152.22	2,121.75	1,060.87	2,560.13	1,264.35	1.81	-0.34	0.070
54.00	-17.37	-1.67	0.00	-151.38	0.00	151.38	2,118.01	1,059.01	2,548.72	1,258.72	1.84	-0.34	0.070
54.50	-17.27	-1.67	0.00	-150.55	0.00	150.55	2,114.27	1,057.14	2,537.32	1,253.09	1.88	-0.34	0.070
55.00	-17.18	-1.66	0.00	-149.71	0.00	149.71	2,110.52	1,055.26	2,525.94	1,247.47	1.91	-0.35	0.070
55.50	-17.08	-1.66	0.00	-148.88	0.00	148.88	2,106.75	1,053.38	2,514.57	1,241.85	1.95	-0.35	0.069
56.00	-16.99	-1.65	0.00	-148.05	0.00	148.05	2,102.98	1,051.49	2,503.21	1,236.24	1.99	-0.36	0.069
56.50	-16.89	-1.65	0.00	-147.23	0.00	147.23	2,099.20	1,049.60	2,491.86	1,230.64	2.02	-0.36	0.069
57.00	-16.80	-1.64	0.00	-146.40	0.00	146.40	2,095.40	1,047.70	2,480.53	1,225.04	2.06	-0.36	0.069
57.50	-16.71	-1.64	0.00	-145.58	0.00	145.58	2,091.60	1,045.80	2,469.21	1,219.45	2.10	-0.37	0.069
58.00	-16.61	-1.64	0.00	-144.76	0.00	144.76	2,087.78	1,043.89	2,457.90	1,213.86	2.14	-0.37	0.068

Site Number: 302494

Code: ANSI/TIA-222-G

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Site Name: Hddm - Haddam, CT

Engineering Number: OAA713049_C3_01

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58.50	-16.52	-1.63	0.00	-143.94	0.00	143.94	2,083.96	1,041.98	2,446.60	1,208.28	2.18	-0.37	0.068
59.00	-16.42	-1.63	0.00	-143.13	0.00	143.13	2,080.12	1,040.06	2,435.32	1,202.71	2.22	-0.38	0.068
59.50	-16.33	-1.62	0.00	-142.31	0.00	142.31	2,076.27	1,038.14	2,424.04	1,197.14	2.26	-0.38	0.068
60.00	-16.24	-1.62	0.00	-141.50	0.00	141.50	2,072.41	1,036.21	2,412.79	1,191.58	2.30	-0.39	0.068
60.50	-16.14	-1.61	0.00	-140.69	0.00	140.69	2,068.55	1,034.27	2,401.54	1,186.03	2.34	-0.39	0.068
61.00	-16.05	-1.61	0.00	-139.89	0.00	139.89	2,064.67	1,032.33	2,390.31	1,180.48	2.38	-0.39	0.067
61.50	-15.96	-1.61	0.00	-139.08	0.00	139.08	2,060.78	1,030.39	2,379.09	1,174.94	2.42	-0.40	0.067
62.00	-15.87	-1.60	0.00	-138.28	0.00	138.28	2,056.88	1,028.44	2,367.88	1,169.41	2.46	-0.40	0.067
62.50	-15.77	-1.60	0.00	-137.47	0.00	137.47	2,052.97	1,026.49	2,356.69	1,163.88	2.50	-0.40	0.067
63.00	-15.68	-1.60	0.00	-136.68	0.00	136.68	2,049.05	1,024.53	2,345.51	1,158.36	2.55	-0.41	0.067
63.50	-15.59	-1.59	0.00	-135.88	0.00	135.88	2,045.12	1,022.56	2,334.35	1,152.85	2.59	-0.41	0.066
64.00	-15.50	-1.59	0.00	-135.08	0.00	135.08	2,041.18	1,020.59	2,323.20	1,147.34	2.63	-0.41	0.066
64.50	-15.40	-1.59	0.00	-134.29	0.00	134.29	2,037.23	1,018.62	2,312.06	1,141.84	2.68	-0.42	0.066
65.00	-15.31	-1.58	0.00	-133.49	0.00	133.49	2,033.27	1,016.64	2,300.94	1,136.35	2.72	-0.42	0.066
65.50	-15.22	-1.58	0.00	-132.70	0.00	132.70	2,029.30	1,014.65	2,289.83	1,130.86	2.76	-0.43	0.066
66.00	-15.13	-1.58	0.00	-131.91	0.00	131.91	2,025.32	1,012.66	2,278.74	1,125.38	2.81	-0.43	0.066
66.50	-15.04	-1.57	0.00	-131.13	0.00	131.13	2,021.33	1,010.66	2,267.65	1,119.91	2.85	-0.43	0.065
67.00	-14.94	-1.57	0.00	-130.34	0.00	130.34	2,016.97	1,008.48	2,256.19	1,114.25	2.90	-0.44	0.065
67.50	-14.85	-1.57	0.00	-129.56	0.00	129.56	2,011.16	1,005.58	2,243.13	1,107.80	2.95	-0.44	0.065
68.00	-14.76	-1.56	0.00	-128.77	0.00	128.77	2,005.34	1,002.67	2,230.12	1,101.37	2.99	-0.44	0.065
68.50	-14.67	-1.56	0.00	-127.99	0.00	127.99	1,999.53	999.77	2,217.14	1,094.96	3.04	-0.45	0.065
69.00	-14.58	-1.56	0.00	-127.21	0.00	127.21	1,993.72	996.86	2,204.19	1,088.57	3.09	-0.45	0.065
69.50	-14.49	-1.56	0.00	-126.43	0.00	126.43	1,987.91	993.96	2,191.29	1,082.20	3.13	-0.46	0.065
70.00	-14.36	-1.55	0.00	-125.65	0.00	125.65	1,982.10	991.05	2,178.42	1,075.84	3.18	-0.46	0.064
70.50	-14.24	-1.55	0.00	-124.87	0.00	124.87	1,976.29	988.14	2,165.59	1,069.51	3.23	-0.46	0.063
71.00	-14.12	-1.55	0.00	-124.10	0.00	124.10	1,970.48	985.24	2,152.80	1,063.19	3.28	-0.47	0.063
71.50	-13.99	-1.55	0.00	-123.33	0.00	123.33	1,964.67	982.33	2,140.05	1,056.89	3.33	-0.47	0.063
72.00	-13.87	-1.54	0.00	-122.55	0.00	122.55	1,958.85	979.43	2,127.34	1,050.61	3.38	-0.47	0.063
72.50	-13.75	-1.54	0.00	-121.78	0.00	121.78	1,953.04	976.52	2,114.66	1,044.35	3.43	-0.48	0.063
73.00	-13.67	-1.54	0.00	-121.01	0.00	121.01	1,947.23	973.62	2,102.02	1,038.11	3.48	-0.48	0.063
73.33	-13.63	-1.54	0.00	-120.50	0.00	120.50	1,943.40	971.70	2,093.70	1,034.00	3.51	-0.48	0.062
73.50	-13.55	-1.54	0.00	-120.24	0.00	120.24	1,943.40	971.70	2,093.70	1,034.00	3.51	-0.48	0.062
74.00	-13.47	-1.54	0.00	-119.47	0.00	119.47	1,473.96	736.98	1,624.57	802.32	3.53	-0.49	0.081
74.50	-13.40	-1.54	0.00	-118.70	0.00	118.70	1,471.41	735.71	1,616.97	798.56	3.58	-0.49	0.081
75.00	-13.32	-1.54	0.00	-117.94	0.00	117.94	1,468.85	734.43	1,609.36	794.80	3.63	-0.49	0.081
75.50	-13.24	-1.54	0.00	-117.17	0.00	117.17	1,466.28	733.14	1,601.77	791.05	3.68	-0.50	0.080
76.00	-13.16	-1.54	0.00	-116.40	0.00	116.40	1,463.70	731.85	1,594.18	787.30	3.74	-0.50	0.080
76.50	-13.09	-1.54	0.00	-115.63	0.00	115.63	1,461.11	730.55	1,586.59	783.56	3.79	-0.51	0.080
77.00	-13.01	-1.54	0.00	-114.86	0.00	114.86	1,458.51	729.25	1,579.01	779.81	3.84	-0.51	0.080
77.50	-12.93	-1.54	0.00	-114.09	0.00	114.09	1,455.89	727.95	1,571.44	776.07	3.90	-0.52	0.079
78.00	-12.86	-1.54	0.00	-113.32	0.00	113.32	1,453.27	726.64	1,563.87	772.34	3.95	-0.52	0.079
78.50	-12.78	-1.54	0.00	-112.56	0.00	112.56	1,450.64	725.32	1,556.31	768.60	4.01	-0.53	0.079
79.00	-12.70	-1.54	0.00	-111.79	0.00	111.79	1,447.99	724.00	1,548.75	764.87	4.06	-0.53	0.078
79.50	-12.63	-1.54	0.00	-111.02	0.00	111.02	1,445.34	722.67	1,541.20	761.14	4.12	-0.53	0.078
80.00	-12.55	-1.54	0.00	-110.24	0.00	110.24	1,442.68	721.34	1,533.65	757.41	4.17	-0.54	0.078
80.50	-12.47	-1.54	0.00	-109.47	0.00	109.47	1,440.00	720.00	1,526.12	753.69	4.23	-0.54	0.078
81.00	-12.40	-1.55	0.00	-108.70	0.00	108.70	1,437.32	718.66	1,518.59	749.97	4.29	-0.55	0.077
81.50	-12.32	-1.55	0.00	-107.93	0.00	107.93	1,434.62	717.31	1,511.06	746.26	4.34	-0.55	0.077
82.00	-12.24	-1.55	0.00	-107.16	0.00	107.16	1,431.91	715.96	1,503.54	742.54	4.40	-0.56	0.077
82.50	-12.17	-1.55	0.00	-106.38	0.00	106.38	1,429.20	714.60	1,496.03	738.83	4.46	-0.56	0.076
83.00	-12.09	-1.55	0.00	-105.61	0.00	105.61	1,426.47	713.23	1,488.53	735.13	4.52	-0.57	0.076
83.50	-12.02	-1.56	0.00	-104.83	0.00	104.83	1,423.73	711.87	1,481.03	731.43	4.58	-0.57	0.076
84.00	-11.94	-1.56	0.00	-104.05	0.00	104.05	1,420.98	710.49	1,473.54	727.73	4.64	-0.57	0.075
84.50	-11.86	-1.56	0.00	-103.27	0.00	103.27	1,418.23	709.11	1,466.06	724.03	4.70	-0.58	0.075
85.00	-11.79	-1.56	0.00	-102.49	0.00	102.49	1,415.46	707.73	1,458.58	720.34	4.76	-0.58	0.075
85.50	-11.71	-1.57	0.00	-101.71	0.00	101.71	1,412.68	706.34	1,451.11	716.65	4.82	-0.59	0.074
86.00	-11.64	-1.57	0.00	-100.93	0.00	100.93	1,409.89	704.94	1,443.65	712.97	4.88	-0.59	0.074
86.50	-11.56	-1.57	0.00	-100.14	0.00	100.14	1,407.09	703.54	1,436.20	709.28	4.95	-0.60	0.074
87.00	-11.49	-1.57	0.00	-99.36	0.00	99.36	1,404.28	702.14	1,428.75	705.61	5.01	-0.60	0.073
87.50	-11.41	-1.58	0.00	-98.57	0.00	98.57	1,401.46	700.73	1,421.32	701.93	5.07	-0.61	0.073
88.00	-11.34	-1.58	0.00	-97.78	0.00	97.78	1,398.63	699.31	1,413.89	698.26	5.13	-0.61	0.073
88.50	-11.26	-1.58	0.00	-96.99	0.00	96.99	1,395.79	697.89	1,406.46	694.60	5.20	-0.61	0.072
89.00	-11.19	-1.59	0.00	-96.20	0.00	96.20	1,392.93	696.47	1,399.05	690.94	5.26	-0.62	0.072
							1,390.07	695.04	1,391.64	687.28	5.33	-0.62	0.072

Site Number: 302494

Code: ANSI/TIA-222-G

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Site Name: Hddm - Haddam, CT

Engineering Number: OAA713049_C3_01

9/26/2017 3:57:31 PM

Customer: AT&T MOBILITY

89.50	-11.11	-1.59	0.00	-95.41	0.00	95.41	1,387.20	693.60	1,384.25	683.63	5.39	-0.63	0.071
90.00	-11.04	-1.59	0.00	-94.61	0.00	94.61	1,384.32	692.16	1,376.86	679.98	5.46	-0.63	0.071
90.50	-10.96	-1.60	0.00	-93.82	0.00	93.82	1,381.42	690.71	1,369.48	676.33	5.53	-0.64	0.071
91.00	-10.89	-1.60	0.00	-93.02	0.00	93.02	1,378.52	689.26	1,362.10	672.69	5.59	-0.64	0.070
91.50	-10.81	-1.60	0.00	-92.22	0.00	92.22	1,375.61	687.80	1,354.74	669.06	5.66	-0.65	0.070
92.00	-10.74	-1.61	0.00	-91.41	0.00	91.41	1,372.68	686.34	1,347.39	665.42	5.73	-0.65	0.070
92.50	-10.66	-1.61	0.00	-90.61	0.00	90.61	1,369.75	684.87	1,340.04	661.80	5.80	-0.65	0.069
93.00	-10.59	-1.62	0.00	-89.80	0.00	89.80	1,366.80	683.40	1,332.70	658.17	5.87	-0.66	0.069
93.50	-10.52	-1.62	0.00	-89.00	0.00	89.00	1,363.85	681.92	1,325.38	654.55	5.94	-0.66	0.068
94.00	-10.44	-1.62	0.00	-88.19	0.00	88.19	1,360.88	680.44	1,318.06	650.94	6.01	-0.67	0.068
94.50	-10.37	-1.63	0.00	-87.37	0.00	87.37	1,357.90	678.95	1,310.75	647.33	6.08	-0.67	0.068
95.00	-10.29	-1.63	0.00	-86.56	0.00	86.56	1,354.92	677.46	1,303.45	643.72	6.15	-0.68	0.067
95.50	-10.22	-1.64	0.00	-85.74	0.00	85.74	1,351.92	675.96	1,296.16	640.12	6.22	-0.68	0.067
96.00	-10.15	-1.64	0.00	-84.93	0.00	84.93	1,348.91	674.46	1,288.88	636.53	6.29	-0.69	0.066
96.50	-10.07	-1.64	0.00	-84.11	0.00	84.11	1,345.89	672.95	1,281.61	632.94	6.36	-0.69	0.066
97.00	-10.00	-1.65	0.00	-83.28	0.00	83.28	1,342.86	671.43	1,274.35	629.35	6.43	-0.69	0.066
97.50	-9.93	-1.65	0.00	-82.46	0.00	82.46	1,339.82	669.91	1,267.09	625.77	6.51	-0.70	0.065
98.00	-9.85	-1.66	0.00	-81.64	0.00	81.64	1,336.78	668.39	1,259.85	622.19	6.58	-0.70	0.065
98.50	-9.78	-1.66	0.00	-80.81	0.00	80.81	1,333.72	666.86	1,252.62	618.62	6.65	-0.71	0.064
99.00	-9.71	-1.66	0.00	-79.98	0.00	79.98	1,330.65	665.32	1,245.40	615.06	6.73	-0.71	0.064
99.50	-9.63	-1.67	0.00	-79.15	0.00	79.15	1,327.57	663.78	1,238.19	611.50	6.80	-0.72	0.063
100.00	-9.56	-1.67	0.00	-78.31	0.00	78.31	1,324.47	662.24	1,230.99	607.94	6.88	-0.72	0.063
100.50	-9.49	-1.67	0.00	-77.48	0.00	77.48	1,321.37	660.69	1,223.80	604.39	6.95	-0.72	0.063
101.00	-9.41	-1.68	0.00	-76.64	0.00	76.64	1,318.26	659.13	1,216.62	600.84	7.03	-0.73	0.062
101.50	-9.34	-1.68	0.00	-75.80	0.00	75.80	1,315.14	657.57	1,209.45	597.30	7.11	-0.73	0.062
102.00	-9.27	-1.69	0.00	-74.96	0.00	74.96	1,312.01	656.00	1,202.30	593.77	7.18	-0.74	0.061
102.50	-9.20	-1.69	0.00	-74.12	0.00	74.12	1,308.86	654.43	1,195.15	590.24	7.26	-0.74	0.061
103.00	-9.12	-1.69	0.00	-73.27	0.00	73.27	1,305.71	652.86	1,188.02	586.72	7.34	-0.75	0.060
103.50	-9.05	-1.70	0.00	-72.43	0.00	72.43	1,302.55	651.27	1,180.89	583.20	7.42	-0.75	0.060
104.00	-8.98	-1.70	0.00	-71.58	0.00	71.58	1,299.37	649.69	1,173.78	579.69	7.50	-0.75	0.059
104.50	-8.91	-1.70	0.00	-70.73	0.00	70.73	1,296.19	648.09	1,166.68	576.18	7.58	-0.76	0.059
105.00	-8.84	-1.71	0.00	-69.88	0.00	69.88	1,292.99	646.50	1,159.59	572.68	7.65	-0.76	0.058
105.50	-8.76	-1.71	0.00	-69.02	0.00	69.02	1,289.86	644.99	1,151.78	568.82	7.73	-0.77	0.058
106.00	-8.69	-1.71	0.00	-68.17	0.00	68.17	1,284.33	642.16	1,143.44	564.70	7.82	-0.77	0.058
106.50	-8.62	-1.71	0.00	-67.31	0.00	67.31	1,279.68	639.84	1,135.13	560.60	7.90	-0.78	0.057
107.00	-8.55	-1.72	0.00	-66.46	0.00	66.46	1,275.03	637.51	1,126.85	556.51	7.98	-0.78	0.057
107.50	-8.48	-1.72	0.00	-65.60	0.00	65.60	1,270.38	635.19	1,118.60	552.44	8.06	-0.78	0.056
108.00	-8.41	-1.72	0.00	-64.74	0.00	64.74	1,265.73	632.87	1,110.38	548.38	8.14	-0.79	0.056
108.50	-8.33	-1.72	0.00	-63.88	0.00	63.88	1,261.08	630.54	1,102.19	544.33	8.22	-0.79	0.055
109.00	-8.26	-1.73	0.00	-63.02	0.00	63.02	1,256.43	628.22	1,094.04	540.30	8.31	-0.80	0.055
109.50	-8.19	-1.73	0.00	-62.15	0.00	62.15	1,251.78	625.89	1,085.91	536.29	8.39	-0.80	0.054
110.00	-8.13	-1.73	0.00	-61.29	0.00	61.29	1,247.14	623.57	1,077.81	532.29	8.48	-0.80	0.054
110.00	-8.13	-1.73	0.00	-61.29	0.00	61.29	853.24	426.62	741.79	366.34	8.48	-0.80	0.000
110.50	-8.07	-1.73	0.00	-60.42	0.00	60.42	851.46	425.73	737.46	364.21	8.56	-0.81	0.075
111.00	-8.01	-1.73	0.00	-59.56	0.00	59.56	849.67	424.84	733.15	362.07	8.65	-0.81	0.075
111.50	-7.96	-1.73	0.00	-58.69	0.00	58.69	847.87	423.94	728.83	359.94	8.73	-0.82	0.074
112.00	-7.90	-1.74	0.00	-57.82	0.00	57.82	846.07	423.03	724.52	357.81	8.82	-0.82	0.073
112.50	-7.84	-1.74	0.00	-56.96	0.00	56.96	844.25	422.12	720.21	355.68	8.90	-0.83	0.072
113.00	-7.78	-1.74	0.00	-56.09	0.00	56.09	842.42	421.21	715.90	353.56	8.99	-0.83	0.071
113.50	-7.72	-1.74	0.00	-55.22	0.00	55.22	840.58	420.29	711.60	351.43	9.08	-0.84	0.070
114.00	-7.66	-1.74	0.00	-54.35	0.00	54.35	838.73	419.36	707.30	349.31	9.17	-0.84	0.070
114.50	-7.60	-1.74	0.00	-53.48	0.00	53.48	836.87	418.43	703.00	347.19	9.25	-0.85	0.069
115.00	-7.54	-1.74	0.00	-52.61	0.00	52.61	834.99	417.50	698.71	345.06	9.34	-0.85	0.068
115.50	-7.48	-1.74	0.00	-51.74	0.00	51.74	833.11	416.56	694.42	342.95	9.43	-0.86	0.067
116.00	-7.43	-1.74	0.00	-50.87	0.00	50.87	831.22	415.61	690.13	340.83	9.52	-0.86	0.066
116.50	-7.39	-1.74	0.00	-50.00	0.00	50.00	829.32	414.66	685.85	338.71	9.61	-0.87	0.065
116.50	-7.39	-1.74	0.00	-50.00	0.00	50.00	829.32	414.66	685.85	338.71	9.61	-0.87	0.157
117.00	-7.35	-1.74	0.00	-49.13	0.00	49.13	827.41	413.70	681.57	336.60	9.71	-0.87	0.155
117.50	-7.32	-1.74	0.00	-48.26	0.00	48.26	825.48	412.74	677.29	334.49	9.80	-0.88	0.153
118.00	-7.28	-1.74	0.00	-47.39	0.00	47.39	823.55	411.77	673.02	332.38	9.89	-0.89	0.151
118.50	-7.24	-1.74	0.00	-46.51	0.00	46.51	821.61	410.80	668.75	330.27	9.98	-0.91	0.150
119.00	-7.21	-1.74	0.00	-45.64	0.00	45.64	819.65	409.83	664.49	328.17	10.08	-0.92	0.148
119.50	-7.17	-1.74	0.00	-44.77	0.00	44.77	817.69	408.84	660.23	326.06	10.18	-0.93	0.146
120.00	-7.14	-1.74	0.00	-43.90	0.00	43.90	815.71	407.86	655.98	323.96	10.27	-0.94	0.144

Site Number: 302494

Code: ANSI/TIA-222-G

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Site Name: Hddm - Haddam, CT

Engineering Number: OAA713049_C3_01

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Customer: AT&T MOBILITY

120.50	-7.10	-1.74	0.00	-43.03	0.00	43.03	813.73	406.86	651.73	321.87	10.37	-0.95	0.142
121.00	-7.06	-1.74	0.00	-42.16	0.00	42.16	811.73	405.86	647.49	319.77	10.47	-0.96	0.141
121.50	-7.03	-1.74	0.00	-41.28	0.00	41.28	809.72	404.86	643.25	317.68	10.57	-0.97	0.139
122.00	-6.99	-1.74	0.00	-40.41	0.00	40.41	807.71	403.85	639.01	315.58	10.68	-0.98	0.137
122.50	-6.96	-1.74	0.00	-39.54	0.00	39.54	805.68	402.84	634.78	313.49	10.78	-0.99	0.135
123.00	-6.92	-1.74	0.00	-38.67	0.00	38.67	803.64	401.82	630.56	311.41	10.88	-1.00	0.133
123.50	-6.88	-1.74	0.00	-37.80	0.00	37.80	801.59	400.80	626.34	309.32	10.99	-1.01	0.131
124.00	-6.85	-1.74	0.00	-36.93	0.00	36.93	799.54	399.77	622.12	307.24	11.10	-1.02	0.129
124.50	-6.81	-1.74	0.00	-36.06	0.00	36.06	797.47	398.73	617.91	305.16	11.20	-1.03	0.127
125.00	-6.78	-1.74	0.00	-35.19	0.00	35.19	795.39	397.69	613.71	303.09	11.31	-1.04	0.125
125.50	-6.74	-1.73	0.00	-34.32	0.00	34.32	793.30	396.65	609.51	301.01	11.42	-1.05	0.123
126.00	-6.71	-1.73	0.00	-33.45	0.00	33.45	791.20	395.60	605.32	298.94	11.53	-1.06	0.120
126.50	-6.67	-1.73	0.00	-32.59	0.00	32.59	789.09	394.54	601.13	296.88	11.64	-1.07	0.118
127.00	-6.64	-1.73	0.00	-31.72	0.00	31.72	786.97	393.48	596.95	294.81	11.76	-1.08	0.116
127.50	-6.60	-1.73	0.00	-30.86	0.00	30.86	784.84	392.42	592.78	292.75	11.87	-1.09	0.114
128.00	-6.57	-1.72	0.00	-30.00	0.00	30.00	782.69	391.35	588.61	290.69	11.99	-1.10	0.112
128.50	-6.53	-1.72	0.00	-29.13	0.00	29.13	780.54	390.27	584.44	288.64	12.10	-1.11	0.109
129.00	-6.50	-1.72	0.00	-28.27	0.00	28.27	778.38	389.19	580.29	286.58	12.22	-1.12	0.107
129.50	-6.46	-1.72	0.00	-27.41	0.00	27.41	776.21	388.10	576.14	284.53	12.34	-1.13	0.105
130.00	-6.43	-1.71	0.00	-26.56	0.00	26.56	774.02	387.01	572.00	282.49	12.45	-1.13	0.102
130.50	-6.39	-1.71	0.00	-25.70	0.00	25.70	771.83	385.91	567.86	280.44	12.57	-1.14	0.100
131.00	-4.14	-1.42	0.00	-24.84	0.00	24.84	769.63	384.81	563.73	278.40	12.69	-1.15	0.095
131.50	-4.11	-1.41	0.00	-24.14	0.00	24.14	767.41	383.71	559.60	276.37	12.81	-1.16	0.093
132.00	-4.08	-1.41	0.00	-23.43	0.00	23.43	765.19	382.59	555.49	274.33	12.94	-1.17	0.091
132.50	-4.05	-1.41	0.00	-22.73	0.00	22.73	762.95	381.48	551.38	272.31	13.06	-1.17	0.089
133.00	-4.01	-1.40	0.00	-22.02	0.00	22.02	760.71	380.35	547.28	270.28	13.18	-1.18	0.087
133.50	-3.98	-1.40	0.00	-21.32	0.00	21.32	758.45	379.23	543.18	268.26	13.31	-1.19	0.085
134.00	-3.95	-1.39	0.00	-20.62	0.00	20.62	756.18	378.09	539.09	266.24	13.43	-1.20	0.083
134.50	-3.92	-1.39	0.00	-19.93	0.00	19.93	753.91	376.95	535.01	264.22	13.56	-1.20	0.081
135.00	-3.89	-1.38	0.00	-19.23	0.00	19.23	751.62	375.81	530.94	262.21	13.68	-1.21	0.079
135.50	-3.86	-1.38	0.00	-18.54	0.00	18.54	749.32	374.66	526.87	260.20	13.81	-1.22	0.076
136.00	-3.84	-1.37	0.00	-17.85	0.00	17.85	747.01	373.51	522.82	258.20	13.94	-1.22	0.074
136.50	-3.81	-1.37	0.00	-17.17	0.00	17.17	744.70	372.35	518.77	256.20	14.07	-1.23	0.072
137.00	-3.78	-1.36	0.00	-16.48	0.00	16.48	742.37	371.18	514.72	254.20	14.20	-1.24	0.070
137.50	-3.75	-1.36	0.00	-15.80	0.00	15.80	740.03	370.01	510.69	252.21	14.33	-1.24	0.068
138.00	-3.72	-1.35	0.00	-15.12	0.00	15.12	737.68	368.84	506.66	250.22	14.46	-1.25	0.065
138.50	-3.69	-1.35	0.00	-14.45	0.00	14.45	735.32	367.66	502.65	248.24	14.59	-1.26	0.063
139.00	-3.66	-1.34	0.00	-13.77	0.00	13.77	732.95	366.47	498.64	246.26	14.72	-1.26	0.061
139.50	-3.63	-1.33	0.00	-13.10	0.00	13.10	730.57	365.28	494.64	244.28	14.85	-1.27	0.059
140.00	-3.60	-1.33	0.00	-12.44	0.00	12.44	728.18	364.09	490.64	242.31	14.98	-1.27	0.056
140.50	-3.57	-1.32	0.00	-11.77	0.00	11.77	725.44	362.72	486.44	240.23	15.12	-1.28	0.054
141.00	-3.49	-1.30	0.00	-11.11	0.00	11.11	721.95	360.98	481.74	237.92	15.25	-1.28	0.052
141.50	-3.46	-1.29	0.00	-10.46	0.00	10.46	718.47	359.23	477.08	235.61	15.39	-1.29	0.049
142.00	-3.43	-1.29	0.00	-9.82	0.00	9.82	714.98	357.49	472.43	233.32	15.52	-1.29	0.047
142.50	-3.41	-1.28	0.00	-9.18	0.00	9.18	711.49	355.75	467.81	231.03	15.66	-1.30	0.045
143.00	-3.38	-1.27	0.00	-8.54	0.00	8.54	708.01	354.00	463.21	228.76	15.79	-1.30	0.042
143.50	-3.35	-1.26	0.00	-7.90	0.00	7.90	704.52	352.26	458.63	226.50	15.93	-1.30	0.040
144.00	-3.33	-1.26	0.00	-7.27	0.00	7.27	701.03	350.52	454.07	224.25	16.07	-1.31	0.037
144.50	-3.30	-1.25	0.00	-6.64	0.00	6.64	697.55	348.77	449.54	222.01	16.20	-1.31	0.035
145.00	-3.28	-1.24	0.00	-6.01	0.00	6.01	694.06	347.03	445.03	219.78	16.34	-1.31	0.032
145.50	-3.25	-1.23	0.00	-5.39	0.00	5.39	690.57	345.29	440.55	217.57	16.48	-1.32	0.030
146.00	-3.22	-1.23	0.00	-4.78	0.00	4.78	687.09	343.54	436.08	215.36	16.62	-1.32	0.027
146.50	-3.20	-1.22	0.00	-4.16	0.00	4.16	683.60	341.80	431.64	213.17	16.75	-1.32	0.024
147.00	-3.17	-1.21	0.00	-3.56	0.00	3.56	680.11	340.06	427.22	210.99	16.89	-1.32	0.022
147.50	-3.15	-1.20	0.00	-2.95	0.00	2.95	676.63	338.31	422.83	208.82	17.03	-1.32	0.019
148.00	-3.12	-1.19	0.00	-2.35	0.00	2.35	673.14	336.57	418.45	206.66	17.17	-1.33	0.016
148.50	-3.09	-1.18	0.00	-1.76	0.00	1.76	669.65	334.83	414.10	204.51	17.31	-1.33	0.013
149.00	-3.07	-1.17	0.00	-1.17	0.00	1.17	666.16	333.08	409.78	202.37	17.45	-1.33	0.010
149.50	-3.04	-1.16	0.00	-0.58	0.00	0.58	662.68	331.34	405.47	200.25	17.59	-1.33	0.008
150.00	0.00	-1.09	0.00	0.00	0.00	0.00	659.19	329.60	401.19	198.13	17.73	-1.33	0.000

Site Number: 302494

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Site Name: Hddm - Haddam, CT

Engineering Number: OAA713049_C3_01

9/26/2017 3:57:31 PM

Customer: AT&T MOBILITY

Analysis Summary

Load Case	Reactions						Max Usage	
	Shear FX (kips)	Shear FZ (kips)	Axial FY (kips)	Moment MX (ft-kips)	Moment MY (ft-kips)	Moment MZ (ft-kips)	Elev (ft)	Interaction Ratio
1.2D + 1.6W	21.94	0.00	41.21	0.00	0.00	2309.28	116.50	0.84
0.9D + 1.6W	20.97	0.00	30.91	0.00	0.00	2170.14	116.50	0.80
1.2D + 1.0Di + 1.0Wi	4.42	0.00	65.10	0.00	0.00	509.62	116.50	0.23
(1.2 + 0.2Sds) * DL + E ELFM	1.34	0.00	42.36	0.00	0.00	172.51	116.50	0.08
(1.2 + 0.2Sds) * DL + E EMAM	2.14	0.00	42.36	0.00	0.00	263.03	116.50	0.17
(0.9 - 0.2Sds) * DL + E ELFM	1.34	0.00	29.52	0.00	0.00	168.26	116.50	0.07
(0.9 - 0.2Sds) * DL + E EMAM	2.14	0.00	29.52	0.00	0.00	256.21	116.50	0.16
1.0D + 1.0W	4.62	0.00	34.35	0.00	0.00	482.26	116.50	0.19

Base/Flange Plate	Plate Type	Baseplate
	Pole Diameter	37.38 in
	Pole Thickness	0.375 in
	Plate Length	44 in
	Plate Thickness	2.5 in
	Plate Fy	60 ksi
	Weld Length	0.3125 in
	ϕ_s Resistance	2209.25 k-in
	Applied	629.31 k-in
Stiffeners	#	8 Show
	Thickness	0.5 in
	Length	5.25 in
	Height	10.5 in
	Chamfer	0 in
	Offset Angle	0°
	Fy	50 ksi

Code Rev. **G**

Date **9/26/2017**
 Engineer **Charles.Cages**
 Site # **302494**
 Carrier **AT&T MOBILITY**

Moment **2309.3 k-ft**
 Axial **41.2 k**

Bolts	#	8
	Bolt Circle	44 in
	(R)adial / (S)quare	S
	Bolt Gap	6 in
	Diameter	2.25 in
	Hole Diameter	2.625 in
	Type	A615-75
	Fy	75 ksi
	Fu	100 ksi
	ϕ_s Resistance	259.82 k
Applied	186.74 k	
Reinforcement	#	0
Extra Bolts	#	4
	Bolt Circle	52.67 in
	(R)adial / (S)quare	R
	Offset Angle	0°
	Diameter	2.25 in
	Type	A615-75
	Fy	75 ksi
	Fu	100 ksi
ϕ_s Resistance	259.82 k	
Applied	229.71 k	

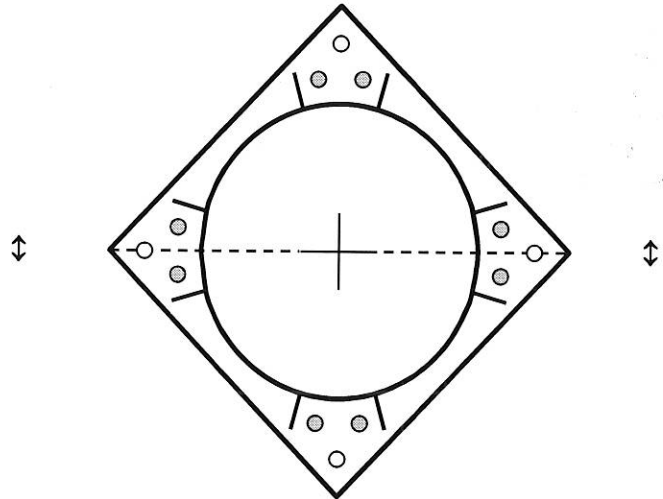


Plate Stress Ratio:
0.28 (Pass)

Bolt Stress Ratio:
0.72 (Pass)

Extra Bolt Stress Ratio:
0.88 (Pass)

Base/Flange Plate	Plate Type	Flange @ 110.0 ft
	Pole Diameter	21.25 in
	Pole Thickness	0.25 in
	Plate Diameter	28.5 in
	Plate Thickness	1 in
	Plate Fy	60 ksi
	Weld Length	0.25 in
	ϕ_s Resistance	210.10 k-in
	Applied	75.49 k-in
	Stiffeners	#
	Thickness	0.5 in
	Length	2.5 in
	Height	5 in
	Chamfer	0 in
	Offset Angle	0°
	Fy	36 ksi

Code Rev. **G**

Date **9/26/2017**
 Engineer **Charles.Cages**
 Site # **302494**
 Carrier **AT&T MOBILITY**

Moment **359.1 k-ft**
 Axial **10.2 k**

Bolts	#	12
	Bolt Circle	25.75 in
	(R)adial / (S)quare	R
	Diameter	1.125 in
	Hole Diameter	1.25 in
	Type	A325
	Fy	92 ksi
	Fu	120 ksi
ϕ_s Resistance		68.69 k
	Applied	54.90 k
Reinforcement	#	0
Extra Bolts	#	0

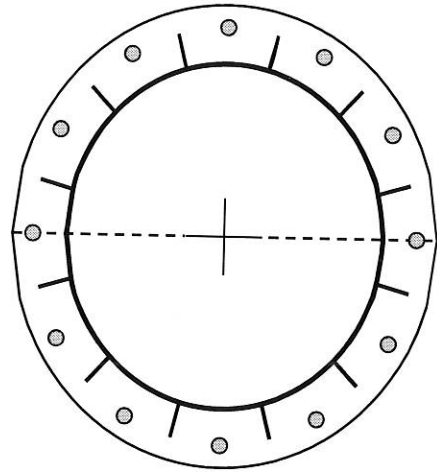
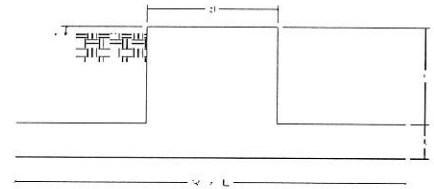


Plate Stress Ratio:
0.36 (Pass)

Bolt Stress Ratio:
0.80 (Pass)

Site Name: Hddm-Haddam, CT
 Site Number: 302494
 Engineering Number: OAA713049
 Engineer: Charles.Cages
 Date: 09/26/17
 Tower Type: MP

Program Last Updated: 5/13/2014



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

Design / Analysis / Mapping:	Mapping
Compression/Leg:	41.2 k
Uplift/Leg:	0.0 k
Total Shear:	21.9 k
Moment:	2309.3 k-ft
Tower + Appurtenance Weight:	41.2 k
Depth to Base of Foundation (l + t - h):	4.40 ft
Diameter of Pier (d):	5.64 ft
Height of Pier above Ground (h):	1.80
Width of Pad (W):	20.00 ft
Length of Pad (L):	19.40 ft
Thickness of Pad (t):	2.20 ft
Tower Leg Center to Center:	0.00 ft
Number of Tower Legs:	1.0 (1 if MP or GT)
Tower Center from Mat Center:	0.00 ft
Depth Below Ground Surface to Water Table:	8.00 ft
Unit Weight of Concrete:	150.0 pcf
Unit Weight of Soil Above Water Table:	125.0 pcf
Unit Weight of Water:	62.4 pcf
Unit Weight of Soil Below Water Table:	65.0 pcf
Friction Angle of Uplift:	43.0 Degrees
Ultimate Coefficient of Shear Friction:	0.40
Ultimate Compressive Bearing Pressure:	10600.0 psf
Ultimate Passive Pressure on Pad Face:	4000.0 psf
$\phi_{\text{Soil and Concrete Weight}}$:	0.9
ϕ_{Soil} :	0.75

Overturning Moment Usage

Design OTM:	2445.3 k-ft
OTM Resistance:	2692.3 k-ft
Design OTM / OTM Resistance:	0.91 Result: OK

Soil Bearing Pressure Usage

Net Bearing Pressure:	3852 psf
Factored Nominal Bearing Pressure:	7950 psf
Net Bearing Pressure/Factored Nominal Bearing Pressure:	0.48 Result: OK
Load Direction Controlling Design Bearing Pressure:	Diagonal to Pad Edge

Sliding Factor of Safety

Total Factored Sliding Resistance:	202.0 k
Sliding Design / Sliding Resistance:	0.11 Result: OK

Nominal and Design Moment Capacity and Factored Design Loads

