Jennifer Iliades

From:UPS Quantum View <pkginfo@ups.com>Sent:Friday, August 3, 2018 10:12 AMTo:Jennifer IliadesSubject:UPS Delivery Notification, Tracking Number 1Z9Y45030721940595



Your package has been delivered.

 Delivery Date:
 Friday, 08/03/2018

 Delivery Time:
 10:09 AM

At the request of Centerline Communications, LLC this notice alerts you that the status of the shipment listed below has changed.

Shipment Detail

Tracking Number:	<u>1Z9Y45030721940595</u>
Ship To:	Town of Colchester Art Shilosky, First Selectman 127 NORWICH AVE COLCHESTER, CT 06415 US
UPS Service:	UPS 2ND DAY AIR A.M
Number of Packages:	1
Shipment Type:	Letter
Delivery Location:	FRONT DESK
	DEAN
Reference Number 1:	CT2046 - CSC to First Selectman

Hundreds of ticket deals & offers, updated daily.

START SAVING NOW >

UPS My Choice®



Download the UPS mobile app

© 2018 United Parcel Service of America, Inc. UPS, the UPS brandmark, and the color brown are trademarks of United Parcel Service of America, Inc. All rights reserved.

All trademarks, trade names, or service marks that appear in connection with UPS's services are the property of their respective owners.

Please do not reply directly to this e-mail. UPS will not receive any reply message. For more information on UPS's privacy practices, refer to the UPS Privacy Notice. For questions or comments, visit Contact UPS.

This communication contains proprietary information and may be confidential. If you are not the intended recipient, the reading, copying, disclosure or other use of the contents of this e-mail is strictly prohibited and you are instructed to please delete this e-mail immediately.

UPS Privacy Notice

Help and Support Center

Jennifer Iliades

From:UPS Quantum View <pkginfo@ups.com>Sent:Friday, August 3, 2018 10:12 AMTo:Jennifer IliadesSubject:UPS Delivery Notification, Tracking Number 1Z9Y45030724727203



Your package has been delivered.

 Delivery Date:
 Friday, 08/03/2018

 Delivery Time:
 10:09 AM

At the request of Centerline Communications, LLC this notice alerts you that the status of the shipment listed below has changed.

Shipment Detail

Tracking Number:	<u>1Z9Y45030724727203</u>
Ship To:	Town of Colchester Randall Benson, Town Planner 127 NORWICH AVE COLCHESTER, CT 06415 US
UPS Service:	UPS 2ND DAY AIR A.M
Number of Packages:	1
Shipment Type:	Letter
Delivery Location:	FRONT DESK
	DEAN
Reference Number 1:	CT2046 - CSC to Planner

Hundreds of ticket deals & offers, updated daily.

START SAVING NOW >

UPS My Choice®



Download the UPS mobile app

© 2018 United Parcel Service of America, Inc. UPS, the UPS brandmark, and the color brown are trademarks of United Parcel Service of America, Inc. All rights reserved.

All trademarks, trade names, or service marks that appear in connection with UPS's services are the property of their respective owners.

Please do not reply directly to this e-mail. UPS will not receive any reply message. For more information on UPS's privacy practices, refer to the UPS Privacy Notice. For questions or comments, visit Contact UPS.

This communication contains proprietary information and may be confidential. If you are not the intended recipient, the reading, copying, disclosure or other use of the contents of this e-mail is strictly prohibited and you are instructed to please delete this e-mail immediately.

UPS Privacy Notice

Help and Support Center

Jennifer Iliades

From:UPS Quantum View <pkginfo@ups.com>Sent:Friday, August 3, 2018 10:12 AMTo:Jennifer IliadesSubject:UPS Delivery Notification, Tracking Number 1Z9Y45030730106818



Your package has been delivered.

 Delivery Date:
 Friday, 08/03/2018

 Delivery Time:
 10:09 AM

At the request of Centerline Communications, LLC this notice alerts you that the status of the shipment listed below has changed.

Shipment Detail

Tracking Number:	1Z9Y45030730106818
Ship To:	Town of Colchester Daphne Schaub 127 NORWICH AVE COLCHESTER, CT 06415 US
UPS Service:	UPS 2ND DAY AIR A.M
Number of Packages:	1
Shipment Type:	Letter
Delivery Location:	FRONT DESK
	DEAN
Reference Number 1:	CT2046 - CSC to Zoning

Hundreds of ticket deals & offers, updated daily.

START SAVING NOW >

UPS My Choice®



Download the UPS mobile app

© 2018 United Parcel Service of America, Inc. UPS, the UPS brandmark, and the color brown are trademarks of United Parcel Service of America, Inc. All rights reserved.

All trademarks, trade names, or service marks that appear in connection with UPS's services are the property of their respective owners.

Please do not reply directly to this e-mail. UPS will not receive any reply message. For more information on UPS's privacy practices, refer to the UPS Privacy Notice. For questions or comments, visit Contact UPS.

This communication contains proprietary information and may be confidential. If you are not the intended recipient, the reading, copying, disclosure or other use of the contents of this e-mail is strictly prohibited and you are instructed to please delete this e-mail immediately.

UPS Privacy Notice

Help and Support Center

Jennifer Iliades

From:UPS Quantum View <pkginfo@ups.com>Sent:Friday, August 3, 2018 10:19 AMTo:Jennifer IliadesSubject:UPS Delivery Notification, Tracking Number 1Z9Y45030728979425



Your package has been delivered.

 Delivery Date:
 Friday, 08/03/2018

 Delivery Time:
 10:10 AM

At the request of Centerline Communications, LLC this notice alerts you that the status of the shipment listed below has changed.

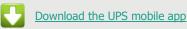
Shipment Detail

Tracking Number:	<u>1Z9Y45030728979425</u>
Ship To:	c/o Acre Group Colchester Realty LLC 2 CENTRAL AVE FLOOR 2 NEW HARTFORD, CT 06057 US
UPS Service:	UPS 2ND DAY AIR A.M
Number of Packages:	1
Shipment Type:	Letter
Delivery Location:	OFFICE
	CHAREST
Reference Number 1:	CT2046 - CSC to Colchester Realty

Hundreds of ticket deals & offers, updated daily.

START SAVING NOW ►

UPS My Choice®



© 2018 United Parcel Service of America, Inc. UPS, the UPS brandmark, and the color brown are trademarks of United Parcel Service of America, Inc. All rights reserved.

All trademarks, trade names, or service marks that appear in connection with UPS's services are the property of their respective owners.

Please do not reply directly to this e-mail. UPS will not receive any reply message. For more information on UPS's privacy practices, refer to the UPS Privacy Notice. For questions or comments, visit Contact UPS.

This communication contains proprietary information and may be confidential. If you are not the intended recipient, the reading, copying, disclosure or other use of the contents of this e-mail is strictly prohibited and you are instructed to please delete this e-mail immediately.

UPS Privacy Notice

Help and Support Center

Jennifer Iliades

From:UPS Quantum View <pkginfo@ups.com>Sent:Friday, August 3, 2018 10:19 AMTo:Jennifer IliadesSubject:UPS Delivery Notification, Tracking Number 1Z9Y45030711317475



Your package has been delivered.

 Delivery Date:
 Friday, 08/03/2018

 Delivery Time:
 10:12 AM

At the request of Centerline Communications, LLC this notice alerts you that the status of the shipment listed below has changed.

Shipment Detail

Tracking Number:	1Z9Y45030711317475
Ship To:	Ryan Tierney American Tower Corporation 10 PRESIDENTIAL WAY WOBURN, MA 01801 US
UPS Service:	UPS 2ND DAY AIR A.M
Number of Packages:	1
Shipment Type:	Letter
Delivery Location:	FRONT DESK
	LONG
Reference Number 1:	CT2046 - CSC to ATC

Hundreds of ticket deals & offers, updated daily.

START SAVING NOW >

UPS My Choice®



Download the UPS mobile app

© 2018 United Parcel Service of America, Inc. UPS, the UPS brandmark, and the color brown are trademarks of United Parcel Service of America, Inc. All rights reserved.

All trademarks, trade names, or service marks that appear in connection with UPS's services are the property of their respective owners.

Please do not reply directly to this e-mail. UPS will not receive any reply message. For more information on UPS's privacy practices, refer to the UPS Privacy Notice. For questions or comments, visit Contact UPS.

This communication contains proprietary information and may be confidential. If you are not the intended recipient, the reading, copying, disclosure or other use of the contents of this e-mail is strictly prohibited and you are instructed to please delete this e-mail immediately.

UPS Privacy Notice

Help and Support Center





July 31, 2018

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

Regarding:Notice of Exempt Modification – AT&T Site CT2046Address:Chestnut Hill Road, Colchester, CT 06415

Dear Ms. Bachman:

New Cingular Wireless, PCS, LLC ("AT&T") currently maintains a wireless telecommunications facility on an existing 180-foot monopole at the above-referenced address, latitude 41.5689361, longitude -72.3036661. Said monopole is operated by American Tower Corporation.

AT&T desires to modify its existing telecommunications facility by swapping (3) antennas, swapping (3) diplexers and adding (3) remote radio heads. The centerline height of the existing antennas is and will remain at 185 feet.

Please accept this letter as notification pursuant to R.C.S.A §16-50j-73 for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to Art Shilosky, First Selectman of the Town of Colchester, Randall Benson, Planner of the Town of Colchester, Daphne Schaub, Zoning Enforcement Officer of the Town of Colchester, American Tower Corporation as tower owner and Colchester Realty LLC, as property owner.

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

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

2. The proposed modifications will not require an extension of the site boundary.

3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.

4. The operation of the modified facility will not increase radio frequency emissions at the facility to a level at or above the Federal Communications Commission safety





standard. Please see the RF emissions calculation for AT&T's modified facility enclosed herewith.

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

6. The existing structure and its foundation can support the proposed loading. *Please see the structural analysis dated April 25, 2018 by Hudson Design Group LLC enclosed herewith.*

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

Sincerely,

Jennifer Iliades Site Acquisition Consultant Centerline Communications, LLC 750 West Center Street, Suite 301 West Bridgewater, MA 02379 jiliades@clinellc.com

Enclosures: Exhibit 1 – Field Card and GIS Map

Exhibit 2 – Construction Drawings

Exhibit 3 – Structural Analysis

Exhibit 4 - RF Emissions Analysis Report Evaluation

Exhibit 5 – Mount Analysis

cc: Art Shilosky, First Selectman, Town of Colchester Randall Benson, Town Planner, Town of Colchester Daphne Schaub, Zoning Enforcement Officer, Town of Colchester American Tower Corporation, Tower Operator Colchester Realty LLC, Property Owner

EXHIBIT 1



Town of Colchester, CT

Property Listing Report

Map Block Lot

4W-01/007-000/TW Account 11AT0004

PID

105114

Property Information

Property Location	СНЕ	CHESTNUT HILL RD			
Owner	AT&T MOBILITY				
Co-Owner	ATTN PROP TAX DEPT				
	909 CHESTNUT ST				
Mailing Address	ST.	LOUIS		МО	63101
Land Use	4310)	Tel Rel	Tw	
Land Class	I				
Zoning Code					
Census Tract					
Sub Lot					
Neighborhood					
Acreage	0				
Utilities					
Lot Setting/Desc					
Survey Map					
Additional Info					

Photo)		
Sketc	h	 	

Primary Construction Details

Year Built	
Stories	
Building Style	
Building Use	
Building Condition	
Floors	
Total Rooms	

Bedrooms	
Full Bathrooms	
Half Bathrooms	
Bath Style	
Kitchen Style	
Roof Style	
Roof Cover	



Property Listing Report

Map Block Lot 4W-01

ot 4W-01/007-000/TW

Account

11AT0004

Valuation Summary (Assessed value = 70% of Appraised Value)

Item	Appraised	Assessed	
Buildings	0	0	
Extras	0	0	
Outbuildings	469100	328400	
Land	0	0	
Total	469100	328400	

Sub Areas

Subarea Type	Gross Area (sq ft)	Living Area (sq ft)
Total Area		0

Outbuilding and Extra Items

Туре	Description
Fence 8' Chain	256.00 L.F.
Cell Shed	312.00 S.F.
Cell Tower	2.00 SITES

Sales History

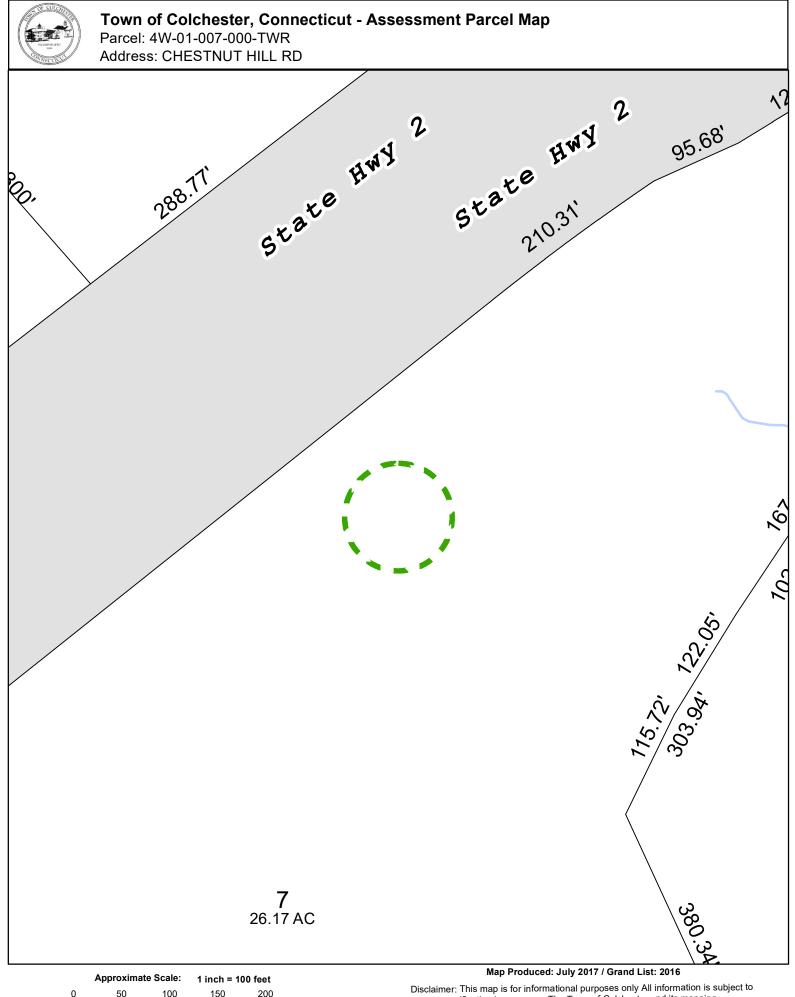
Owner of Record	Book/ Page	Sale Date	Sale Price

AT&T MOBILITY

000/ 000

10/1/2011

Report Created On **7/31/2018**



Feet

verification by any user. The Town of Colchester and its mapping contractors assume no legal responsibility for the information contained herein.

EXHIBIT 2

	PROJECT INFORMATION					
SCOPE OF WORK	***BIRDSITE***]			
	 NEW AT&T ANTENNAS (QS46512-2 FOR ALPHA SEC FOR BETA AND GAMMA SECTORS). NEW AT&T RRUS: (1) RRUS-32 B2 (PCS) (TYP. OI 					
	ITEMS TO BE MOUNTED INSIDE EXISTING SHELTER: • NEW AT&T RRUS: (1) 4478 RADIO MOUNTED ON NI • COAX JUMPERS (TYP. OF 4 PER SECTOR TOTAL OF • FIBER JUMPERS (TYP. OF 2 PER SECTOR TOTAL OF CABLE #12 SIZE FROM SQUID TO EACH RRU. • (1) FIF RACK. • (8) SURGE ARRESTORS (APTDC-BDFM-DB) MOUNTE • NEW (1) 5216, (1) XMU AND (1) DC12 TO REPLAC	12) FROM THE RRU. 6) TO RRU. SINGLE PAIR POWER D IN NEW RACK				
	ITEMS TO REMAIN: • (6) UMTS ANTENNAS, (6) TMAS, (3) RRU'S, (12) CO CABLES, (1) FIBER CABLE & (1) SURGE ARRESTOR.	DAX CABLES, (2) DC POWER		SITE	NUMBER: CT2046	
SITE ADDRESS:	CHESTNUT HILL ROAD COLCHESTER, CT 06415					
LATITUDE:	41.568936 N 41 34 08.16 N			SITE N	AME: COLCHESTER	
LONGITUDE:	72.303661 W 72 18 13.19 W			0.1210		
TYPE OF SITE:	MONOPOLE, INDOOR EQUIPMENT					
TOWER HEIGHT:	180'± A.G.L			PROJECT: L	TE 2C 3C 2018 UPG	
RAD CENTER:	183'± A.G.L					
CURRENT USE:						
PROPOSED USE:	TELECOMMUNICATIONS FACILITY			VICINITY MAP		
	DRAWING INDEX	· · · ·	DIRECTIONS TO SITE:		1. THIS DOCUMENT IS THE CREATIC	
SHEET NO. DES	SCRIPTION	REV.	DEPART ENTERPRISE DR TOW. WEST ST. TAKE RAMP LEFT F	ARD CAPITOL BLVD. TURN LEFT ONTO CAPITOL BLVD. TURN LEF FOR I-91 N. AT EXIT 25, TAKE RAMP RIGHT FOR CT-3 NORTH	T ONTO DUPLICATION OR USE WITHOUT E TOWARD AND USE BY GOVERNMENT AGEN	
T-1 TITL	LE SHEET	1	GLASTONBURY. TAKE RAMP R AND FOLLOW SIGNS FOR CHE SITE ON THE LEFT.	IGHT FOR CT-2 EAST TOWARD NORWICH. AT EXIT 21, TAKE RAI ESTNUT HILL ROAD. TURN RIGHT ONTO CHESTNUT HILL RD. ARR	IVE AT 2. THE FACILITY IS AN UNMANNED	
GN-1 GEN	NERAL NOTES	1			ACCESSED BY TRAINED TECHNICI NOT REQUIRE ANY WATER OR SA	
A-1 COM	MPOUND & EQUIPMENT PLANS	1			REGULATIONS REQUIRING PUBLIC	
		4	Maple Dr		3. CONTRACTOR SHALL VERIFY ALL AND SHALL IMMEDIATELY NOTIFY BEFORE PROCEEDING WITH THE	
	TENNA PLANS & ELEVATION	1		A THE A CONTRACTOR	4. CONSTRUCTION DRAWINGS ARE V	
A-3 DET	TAILS	1		A states and a state of the states of the st	SIGNED SUBMITTAL DATE LISTED	
SN-1 STR	RUCTURAL NOTES	1			and the second	
S-1 STR	RUCTURAL DETAILS	1				
S-2 STR	RUCTURAL DETAILS	1			3	
RF—1 RF	PLUMBING DIAGRAM	1	the lite	his for the second second	(P)	
G-1 GRC	DUNDING DETAILS	1	Bereway.	chest	BE	
		1		PROJECT	DLI 👻	
			1 Same	SIL	CALL TOLL FRE	
	AMERICAN TOWER SITE #: 302496		Edgewood Dr			
	AMERICAN TOWER SITE NAME: CLCHCO	DLCHESTER				
			2		UNDE	
			and the second	A CONTRACT OF		
			20	A PARTY A		
			UMBER: CT2046			
	HUDSON	SITE NAI	ME: COLCHESTER	at&t		
	Design Group LLC		E NUMBER: 302496 STNUT HILL ROAD		04/25/18 ISSUED FOR CONSTRUCTION SF 5 09/25/17 ISSUED FOR REVIEW SB AT	
45 BEECHWOOD DRIVE NORTH ANDOVER, MA 01	TEL: (978) 557-5553 95 RYAN DRIVE 1845 FAX: (978) 336-5586 RAYNHAM, MA 02767	COLC	HESTER, CT 06415 LONDON COUNTY	500 ENTERPRISE DRIVE, SUITE 3A NO. ROCKY HILL, CT 06067 SCAL	DATE REVISIONS BY CHK A .E: AS SHOWN DESIGNED BY AT DRAWN BY SB	
NUKIN ANDUVER, MA 01	1045 FAA: (7/0) 330-3300			SUCH THEE, OF BOOD, SUCH		

46

STER

UPGRADE

GENERAL NOTES

HE CREATION, DESIGN, PROPERTY AND COPYRIGHTED WORK OF AT&T. ANY WITHOUT EXPRESS WRITTEN CONSENT IS STRICTLY PROHIBITED. DUPLICATION MENT AGENCIES FOR THE PURPOSES OF CONDUCTING THEIR LAWFULLY ORY AND ADMINISTRATIVE FUNCTIONS IS SPECIFICALLY ALLOWED.

INMANNED PRIVATE AND SECURED EQUIPMENT INSTALLATION. IT IS ONLY D TECHNICIANS FOR PERIODIC ROUTINE MAINTENANCE AND THEREFORE DOES ITER OR SANITARY SEWER SERVICE. THE FACILITY IS NOT GOVERNED BY IG PUBLIC ACCESS PER ADA REQUIREMENTS.

YERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE TLY NOTIFY THE AT&T MOBILITY REPRESENTATIVE IN WRITING OF DISCREPANCIES WITH THE WORK OR BE RESPONSIBLE FOR SAME.

NGS ARE VALID FOR SIX MONTHS AFTER ENGINEER OF RECORD'S STAMPED AND ITE LISTED HEREIN.



GROUNDING NOTES

- 1. THE SUBCONTRACTOR SHALL REVIEW AND INSPECT THE EXISTING FACILITY GROUNDING SYSTEM AND LIGHTNING PROTECTION SYSTEM (AS DESIGNED AND INSTALLED) FOR STRICT COMPLIANCE WITH THE NEC (AS ADOPTED BY THE AHJ), THE SITE-SPECIFIC (UL, LPI, OR NFPA) LIGHTING PROTECTION CODE, AND GENERAL COMPLIANCE WITH TELCORDIA AND TIA GROUNDING STANDARDS. THE SUBCONTRACTOR SHALL REPORT ANY VIOLATIONS OR ADVERSE FINDINGS TO THE CONTRACTOR FOR RESOLUTION.
- 2. ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION, AND AC POWER GES'S) SHALL BE BONDED TOGETHER, AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.
- THE SUBCONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH .3. TESTING (PER IEEE 1100 AND 81) FOR NEW GROUND ELECTRODE SYSTEMS. THE SUBCONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.
- 4. METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS FOUIPMENT
- 5. EACH BTS CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, 6 AWG STRANDED COPPER OR LARGER FOR INDOOR BTS 2 AWG STRANDED COPPER FOR OUTDOOR BTS.
- 6. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
- 7. APPROVED ANTIOXIDANT COATINGS (I.E., CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
- 8. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO GROUND BAR
- 9. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS
- 10. MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
- 11. METAL CONDUIT SHALL BE MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH 6 AWS COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
- 12. ALL NEW STRUCTURES WITH A FOUNDATION AND/OR FOOTING HAVING 20 FT. OR MORE OF 1/2 IN. OR GREATER ELECTRICALLY CONDUCTIVE REINFORCING STEEL MUST HAVE IT BONDED TO THE GROUND RING USING AN EXOTHERMIC WELD CONNECTION USING #2 AWG SOLID BARE TINNED COPPER GROUND WIRE, PER NEC 250,50

GENERAL NOTES

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

CONTRACTOR - CENTERLINE SUBCONTRACTOR - GENERAL CONTRACTOR (CONSTRUCTION) OWNER - AT&T MOBILITY

- 2. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR.
- 3. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. SUBCONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS
- 4. DRAWINGS PROVIDED HERE ARE NOT TO BE SCALED AND ARE INTENDED TO SHOW OUTLINE ONLY
- 5. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- 6. "KITTING LIST" SUPPLIED WITH THE BID PACKAGE IDENTIFIES ITEMS THAT WILL BE SUPPLIED BY CONTRACTOR. ITEMS NOT INCLUDED IN THE BILL OF MATERIALS AND KITTING LIST SHALL BE SUPPLIED BY THE SUBCONTRACTOR.
- 7. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
- 8. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION SPACE FOR APPROVAL BY THE CONTRACTOR.
- 9. SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND T1 CABLES, GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWING. SUBCONTRACTOR SHALL UTILIZE EXISTING TRAYS AND/OR SHALL ADD NEW TRAYS AS NECESSARY. SUBCONTRACTOR SHALL CONFIRM THE ACTUAL ROUTING WITH THE CONTRACTOR.
- 10. THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.
- 11. SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
- 12. SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION
- 13. ALL CONCRETE REPAIR WORK SHALL BE DONE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE (ACI) 301

14. ANY NEW CONCRETE NEEDED FOR THE CONSTRUCTION SHALL BE AIR-ENTRAINED AND SHALL HAVE 4000 PSI STRENGTH AT 28 DAYS. ALL CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH ACI 318 CODE REQUIREMENTS.

- AFTER MIDNIGHT.
 - EXPOSURE LEVELS
- 20. APPLICABLE BUILDING CODES:

STANDARDS

AMERICAN CONCRETE INSTITUTE (ACI) 318; BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE;

EQUIPMENT AND ANTENNA SUPPORTING STRUCTURES; REFER TO ELECTRICAL DRAWINGS FOR SPECIFIC ELECTRICAL STANDARDS.

						ABBREVIATIONS	
			AGL	ABOVE GRADE LEVEL	EQ	EQUAL	REQ
			AWG	AMERICAN WIRE GAUGE	GC	GENERAL CONTRACTOR	RF
			BBU	BATTERY BACKUP UNIT	GRC	GALVANIZED RIGID CON	DUIT TBD
			BTC	W BARE TINNED SOLID COPPER WIRE	MGB	MASTER GROUND BAR	TBR
			BGR	BURIED GROUND RING	MIN	MINIMUM	TBRR
			BTS	BASE TRANSCEIVER STATION	Ρ	PROPOSED	TYP
			E	EXISTING	NTS	NOT TO SCALE	UG
			EGB	EQUIPMENT GROUND BAR	RAD	RADIATION CENTER LINE (ANTENNA)	E VIF
			EGR	EQUIPMENT GROUND RING	REF	REFERENCE	
		SITE NUMBER: CT2046		A			
	CONTERLINE	SITE NAME: COLCHESTER		atot			
HUDSON Design Group LLC	CENTERLINE COMMUNICATIONS	ATC SITE NUMBER: 302496		at&t	1 04	4/25/18 ISSUED FOR CONSTRUCT	ION
Design Group LLG		CHESTNUT HILL ROAD			A 09	9/25/17 ISSUED FOR REVIEW	
45 BEECHWOOD DRIVE TEL: (978) 557-5553	95 RYAN DRIVE RAYNHAM, MA 02767	COLCHESTER, CT 06415 NEW LONDON COUNTY		PRISE DRIVE, SUITE 3A (Y HILL, CT 06067			ISIONS
NORTH ANDOVER, MA 01845 FAX: (978) 336-5586			RUCE	T HILL, CT 00007	SCALE:	: AS SHOWN DESIGNED E	BY: AT DRAWN

15. ALL STRUCTURAL STEEL WORK SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH AISC SPECIFICATIONS. ALL STRUCTURAL STEEL SHALL BE ASTM A36 (Fy = 36 ksi) UNLESS OTHERWISE NOTED. PIPES SHALL BE ASTM A53 TYPE E (Fy = 36 ksi). ALL STEEL EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED. TOUCHUP ALL SCRATCHES AND OTHER MARKS IN THE FIELD AFTER STEEL IS ERECTED USING A COMPATIBLE ZINC RICH PAINT.

16. CONSTRUCTION SHALL COMPLY WITH SPECIFICATIONS AND "GENERAL CONSTRUCTION SERVICES FOR CONSTRUCTION OF AT&T SITES."

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

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

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

SUBCONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION. THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN. BUILDING CODE: IBC 2012 WITH 2016 CT BUILDING CODE AMENDMENTS ELECTRICAL CODE: REFER TO ELECTRICAL DRAWINGS LIGHTENING CODE: REFER TO ELECTRICAL DRAWINGS

SUBCONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING

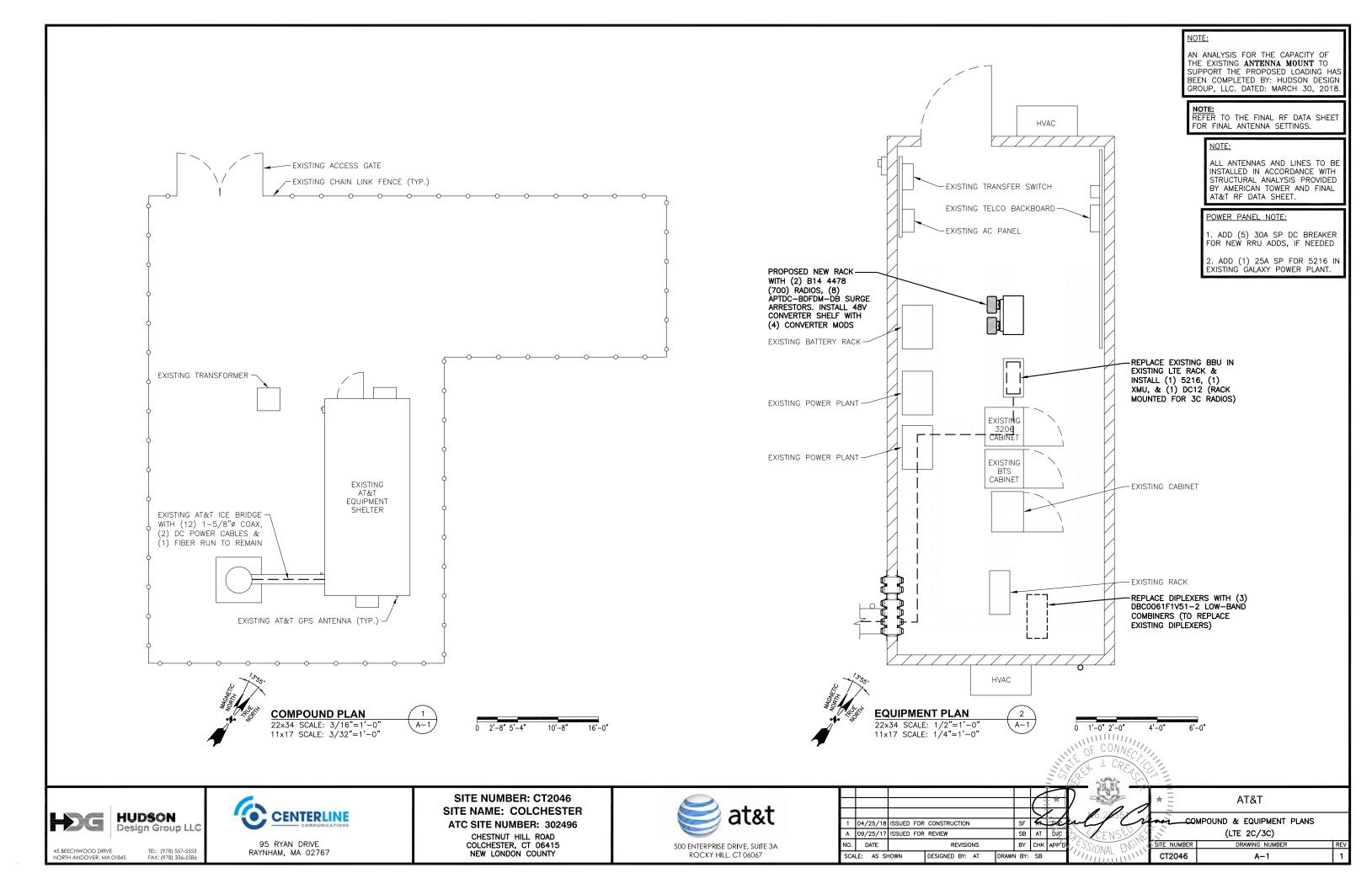
AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC)

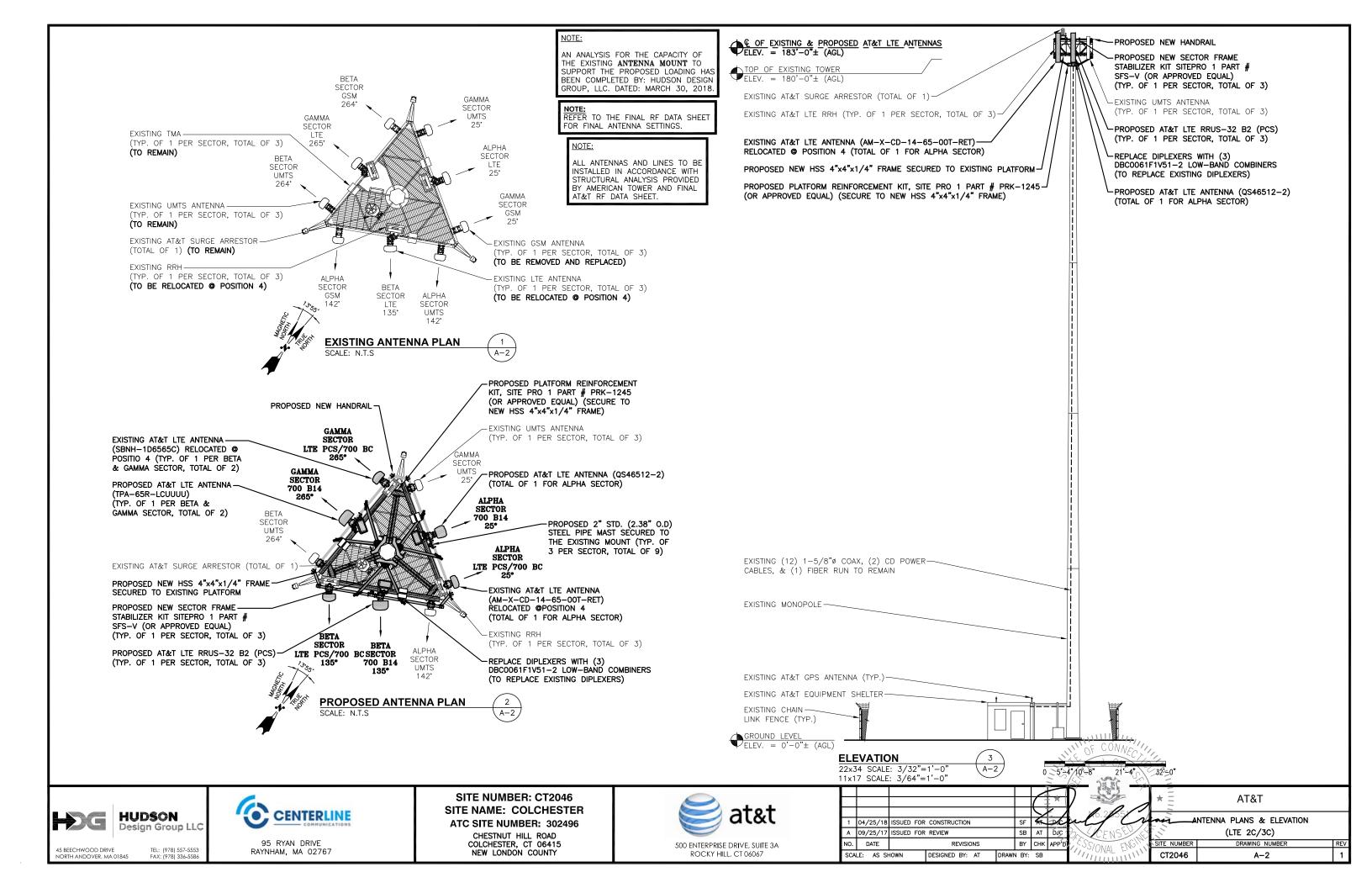
MANUAL OF STEEL CONSTRUCTION, ASD, FOURTEENTH EDITION;

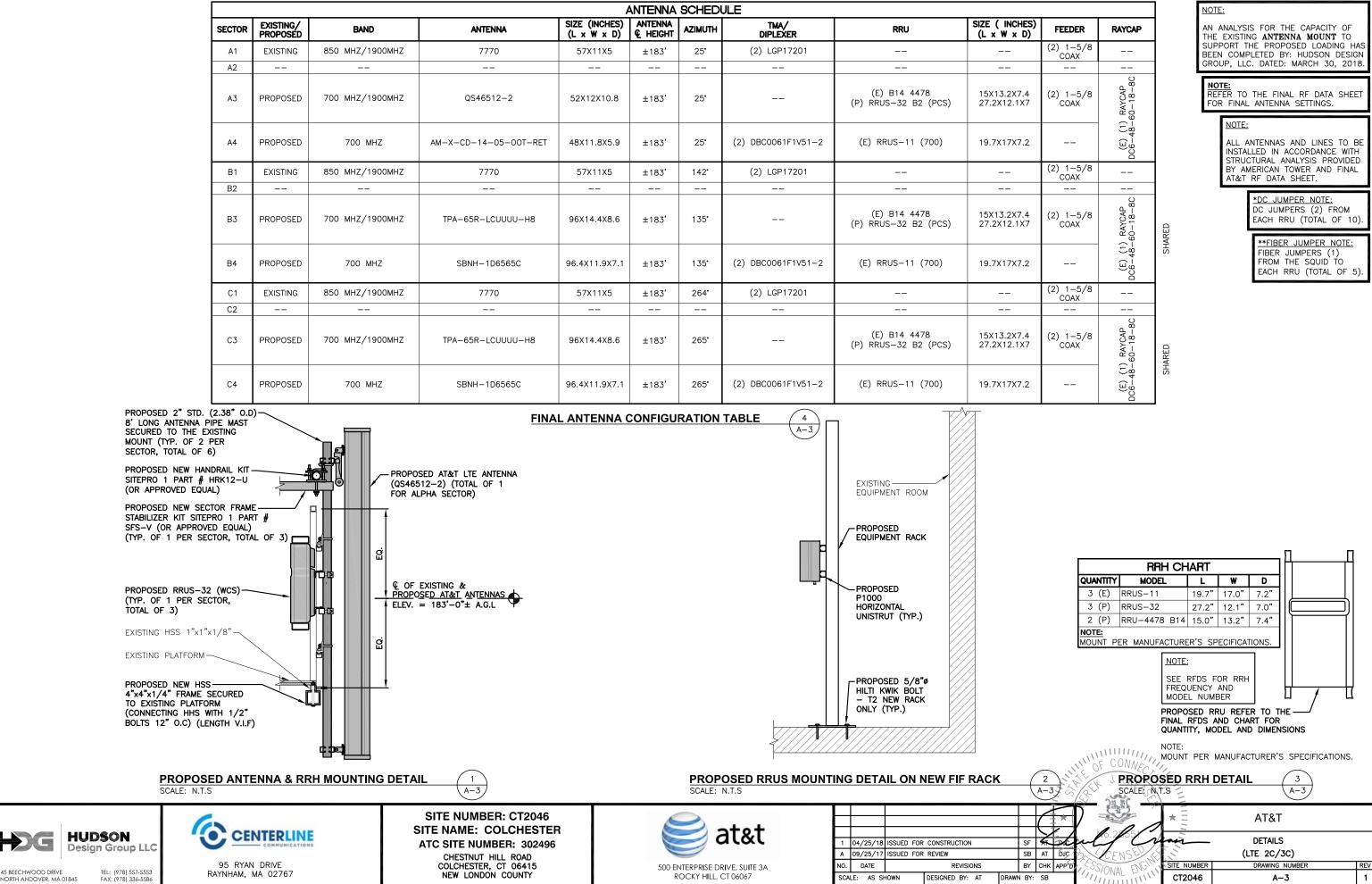
TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-G, STRUCTURAL STANDARDS FOR STEEL

FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE REQUIREMENT SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

REQUIRED			
RADIO FREQUENCY			
TO BE DETERMINED			
TO BE REMOVED			
TO BE REMOVED AND REPLACED			
TYPICAL			
UNDER GROUND			
VERIFY IN FIELD J. CR			
	* =	AT&T	
SF France Cr	for -	GENERAL NOTES	
SB AT DUC OCENSE		(LTE 2C/3C)	
BY CHK APP'DI	SITE NUMBER	DRAWING NUMBER	REV
N BY: SB	CT2046	GN-1	1
	RADIO FREQUENCY TO BE DETERMINED TO BE REMOVED TO BE REMOVED AND REPLACED TYPICAL UNDER GROUND VERIFY IN FIELD SF FR DOCUMENTS BB AT DOCUMENTS SF OR DOCUMENTS	RADIO FREQUENCY TO BE DETERMINED TO BE REMOVED TO BE REMOVED AND REPLACED TYPICAL UNDER GROUND VERIFY IN, FIELD SF ST DOC BY CHK APP'BI SITE NUMBER	RADIO FREQUENCY TO BE DETERMINED TO BE REMOVED TO BE REMOVED AND REPLACED TYPICAL UNDER GROUND VERIFY IN, FIELD VERIFY IN, FIELD XERIFY IN, FIELD







NCHES) x D)	FEEDER	RAYCAP		AN ANALYSIS FOR THE CAPACITY OF
-	(2) 1-5/8 COAX			THE EXISTING ANTENNA MOUNT TO SUPPORT THE PROPOSED LOADING I BEEN COMPLETED BY: HUDSON DES
-			1 [GROUP, LLC. DATED: MARCH 30, 20
2X7.4 2.1X7	(2) 1-5/8 COAX	(E) (1) RAYCAP DC6-48-60-18-BC		NOTE: REFER TO THE FINAL RF DATA SHE FOR FINAL ANTENNA SETTINGS.
7X7.2		(E) (1 DC6-48-		NOTE: ALL ANTENNAS AND LINES TO INSTALLED IN ACCORDANCE WIJ STRUCTURAL ANALYSIS PROVIDI
-	(2) 1-5/8 COAX			BY AMERICAN TOWER AND FINA AT&T RF DATA SHEET.
-			1	
2X7.4 2.1X7	(2) 1-5/8 COAX	(E) (1) RAYCAP DC6-48-60-18-8C	SHARED	*DC JUMPER NOTE: DC JUMPERS (2) FROM EACH RRU (TOTAL OF 1 **FIBER JUMPER NOTE:
7X7.2		(E) (1) DC6-48-	S	FIBER JUMPERS (1) FROM THE SQUID TO EACH RRU (TOTAL OF
-	(2) 1-5/8 COAX			
-				
2X7.4 2.1X7	(2) 1-5/8 COAX	E) (1) RAYCAP 48-60-18-8C	SHARED	
7X7.2		(E) (1 DC6-48-	Υ.	

STRUCTURAL NOTES:

- 1. DESIGN REQUIREMENTS ARE PER STATE BUILDING CODE AND APPLICABLE SUPPLEMENTS, INTERNATIONAL BUILDING CODE, EIA/TIA-222-G STRUCTURAL STANDARDS FOR STEEL ANTENNA, TOWERS AND ANTENNA SUPPORTING STRUCTURES.
- 2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO FABRICATION AND ERECTION OF ANY MATERIAL. ANY UNUSUAL CONDITIONS SHALL BE REPORTED TO THE ATTENTION OF THE CONSTRUCTION MANAGER AND ENGINEER OF RECORD.
- 3. DESIGN AND CONSTRUCTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".
- 4. STRUCTURAL STEEL SHALL CONFORM TO ASTM A992 (Fy=50 ksi), MISCELLANEOUS STEEL SHALL CONFORM TO ASTM A36 UNLESS OTHERWISE INDICATED.
- 5. STEEL PIPE SHALL CONFORM TO ASTM A500 "COLD-FORMED WELDED & SEAMLESS CARBON STEEL STRUCTURAL TUBING", GRADE B, OR ASTM A53 PIPE STEEL BLACK AND HOT-DIPPED ZINC-COATED WELDED AND SEAMLESS TYPE E OR S, GRADE B. PIPE SIZES INDICATED ARE NOMINAL. ACTUAL OUTSIDE DIAMETER IS LARGER.
- 6. STRUCTURAL CONNECTION BOLTS SHALL BE HIGH STRENGTH BOLTS (BEARING TYPE) AND CONFORM TO ASTM A325 TYPE-X "HIGH STRENGTH BOLTS FOR STRUCTURAL JOINTS, INCLUDING SUITABLE NUTS AND PLAIN HARDENED WASHERS". ALL BOLTS SHALL BE 3/4" DIA UON.
- ALL STEEL MATERIALS SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 "ZINC (HOT-DIP GALVANIZED) COATINGS ON IRON AND STEEL PRODUCTS", UNLESS OTHERWISE NOTED.
- ALL BOLTS, ANCHORS AND MISCELLANEOUS HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 "ZINC-COATING (HOT-DIP) ON IRON AND STEEL HARDWARE", UNLESS OTHERWISE NOTED.
- 9. FIELD WELDS, DRILL HOLES, SAW CUTS AND ALL DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED WITH AN ORGANIC ZINC REPAIR PAINT COMPLYING WITH REQUIREMENTS OF ASTM A780. GALVANIZING REPAIR PAINT SHALL HAVE 65 PERCENT ZINC BY WEIGHT, ZIRP BY DUNCAN GALVANIZING, GALVA BRIGHT PREMIUM BY CROWN OR EQUAL. THICKNESS OF APPLIED GALVANIZING REPAIR PAINT SHALL BE NOT NOT LESS THAN 4 COATS (ALLOW TIME TO DRY BETWEEN COATS) WITH A RESULTING COATING THICKNESS REQUIRED BY ASTM A123 OR A153 AS APPLICABLE.
- 10. CONTRACTOR SHALL COMPLY WITH AWS CODE FOR PROCEDURES, APPEARANCE AND QUALITY OF WELDS, AND FOR METHODS USED IN CORRECTING WELDING. ALL WELDERS AND WELDING PROCESSES SHALL BE QUALIFIED IN ACCORDANCE WITH AWS "STANDARD QUALIFICATION PROCEDURES". ALL WELDING SHALL BE DONE USING E70XX ELECTRODES AND WELDING SHALL CONFORM TO AISC AND DI.I. WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "STEEL CONSTRUCTION MANUAL". 14TH EDITION.
- 11. INCORRECTLY FABRICATED, DAMAGED OR OTHERWISE MISFITTING OR NON-CONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE CONSTRUCTION MANAGER PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH ACTION SHALL REQUIRE CONSTRUCTION MANAGER APPROVAL.
- 12. UNISTRUT SHALL BE FORMED STEEL CHANNEL STRUT FRAMING AS MANUFACTURED BY UNISTRUT CORP., WAYNE, MI OR EQUAL. STRUT MEMBERS SHALL BE 1 5/8"x1 5/8"x12GA, UNLESS OTHERWISE NOTED, AND SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION.
- 13. EPOXY ANCHOR ASSEMBLY SHALL CONSIST OF STAINLESS STEEL ANCHOR ROD WITH NUTS & WASHERS. AN INTERNALLY THREADED INSERT, A SCREEN TUBE AND A EPOXY ADHESIVE. THE ANCHORING SYSTEM SHALL BE THE HILTI-HIT HY-70 AND OR HY-200 SYSTEMS (AS SPECIFIED IN DWG.) OR ENGINEERS APPROVED EQUAL.
- 14. EXPANSION BOLTS SHALL CONFORM TO FEDERAL SPECIFICATION FF-S-325, GROUP II, TYPE 4, CLASS I, HILTI KWIK BOLT III OR APPROVED EQUAL. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- 15. LUMBER SHALL COMPLY WITH THE REQUIREMENTS OF THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION AND THE NATIONAL FOREST PRODUCTS ASSOCIATION'S NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION. ALL LUMBER SHALL BE PRESSURE TREATED AND SHALL BE STRUCTURAL GRADE NO. 2 OR BETTER.
- 16. WHERE ROOF PENETRATIONS ARE REQUIRED, THE CONTRACTOR SHALL CONTACT AND COORDINATE RELATED WORK WITH THE BUILDING OWNER AND THE EXISTING ROOF INSTALLER. WORK SHALL BE PERFORMED IN SUCH A MANNER AS TO NOT VOID THE EXISTING ROOF WARRANTY. ROOF SHALL BE WATERTIGHT.
- 17. ALL FIBERGLASS MEMBERS USED ARE AS MANUFACTURED BY STRONGWELL COMPANY OF BRISTOL, VA 24203. ALL DESIGN CRITERIA FOR THESE MEMBERS IS BASED ON INFORMATION PROVIDED IN THE DESIGN MANUAL. ALL REQUIREMENTS PUBLISHED IN SAID MANUAL MUST BE STRICTLY ADHERED TO.
- 18. NO MATERIALS TO BE ORDERED AND NO WORK TO BE COMPLETED UNTIL SHOP DRAWINGS HAVE BEEN REVIEWED AND APPROVED IN WRITING.
- 19. SUBCONTRACTOR SHALL FIREPROOF ALL STEEL TO PRE-EXISTING CONDITIONS.





SPECIAL INSPECTIONS (REFERENCE IBC CHAPTER 17):

GENERAL: WHERE APPLICATION IS MADE FOR CONSTRUCTION, THE OWNER OR THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE ACTING AS THE OWNER'S AGENT SHALL EMPLOY ONE OR MORE APPROVED AGENCIES TO PERFORM INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED IN THE INSPECTION CHECKLIST ABOVE.

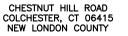
THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE AND ENGINEERS OF RECORD INVOLVED IN THE DESIGN OF THE PROJECT ARE PERMITTED TO ACT AS THE APPROVED AGENCY AND THEIR PERSONNEL ARE PERMITTED TO ACT AS THE SPECIAL INSPECTOR FOR THE WORK DESIGNED BY THEM, PROVIDED THOSE PERSONNEL MEET THE QUALIFICATION REQUIREMENTS.

STATEMENT OF SPECIAL INSPECTIONS: THE APPLICANT SHALL SUBMIT A STATEMENT OF SPECIAL INSPECTIONS PREPARED BY THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE IN ACCORDANCE WITH SECTION 107.1 AS A CONDITION FOR ISSUANCE. THIS STATEMENT SHALL BE IN ACCORDANCE WITH SECTION 1705.

REPORT REQUIREMENT: SPECIAL INSPECTORS SHALL KEEP RECORDS OF INSPECTIONS. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. REPORTS SHALL INDICATE THAT WORK INSPECTED WAS OR WAS NOT COMPLETED IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THEY ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. A FINAL REPORT DOCUMENTING REQUIRED SPECIAL INSPECTIONS SHALL BE SUBMITTED.

	CTION CHECKLIST
	ONSTRUCTION
CONSTRUCTION/INSTALLATION INSPECTIONS AND TESTING REQUIRED (COMPLETED BY ENGINEER OF RECORD)	REPORT ITEM
N/A	ENGINEER OF RECORD APPROVED SHOP DRAWINGS ¹
N/A	MATERIAL SPECIFICATIONS REPORT ²
N/A	FABRICATOR NDE INSPECTION
N/A	PACKING SLIPS ³
ADDITIONAL TESTING AND INSP	ECTIONS:
DURING C	ONSTRUCTION
CONSTRUCTION/INSTALLATION INSPECTIONS AND TESTING REQUIRED (COMPLETED BY ENGINEER OF RECORD)	REPORT ITEM
REQUIRED	STEEL INSPECTIONS
N/A	HIGH STRENGTH BOLT INSPECTIONS
N/A	HIGH WIND ZONE INSPECTIONS 4
N/A	FOUNDATION INSPECTIONS
N/A	CONCRETE COMP. STRENGTH, SLUMP TESTS AND PLACEMENT
N/A	POST INSTALLED ANCHOR VERIFICATION ⁵
N/A	GROUT VERIFICATION
N/A	CERTIFIED WELD INSPECTION
N/A	EARTHWORK: LIFT AND DENSITY
N/A	ON SITE COLD GALVANIZING VERIFICATION
N/A	GUY WIRE TENSION REPORT
ADDITIONAL TESTING AND INSP	ECTIONS:
AFTER CO	DNSTRUCTION
CONSTRUCTION/INSTALLATION INSPECTIONS AND TESTING REQUIRED (COMPLETED BY ENGINEER OF RECORD)	REPORT ITEM
REQUIRED	MODIFICATION INSPECTOR REDLINE OR RECORD DRAWINGS ⁶
N/A	POST INSTALLED ANCHOR PULL-OUT TESTING
REQUIRED	PHOTOGRAPHS
ADDITIONAL TESTING AND INSP	FCTIONS

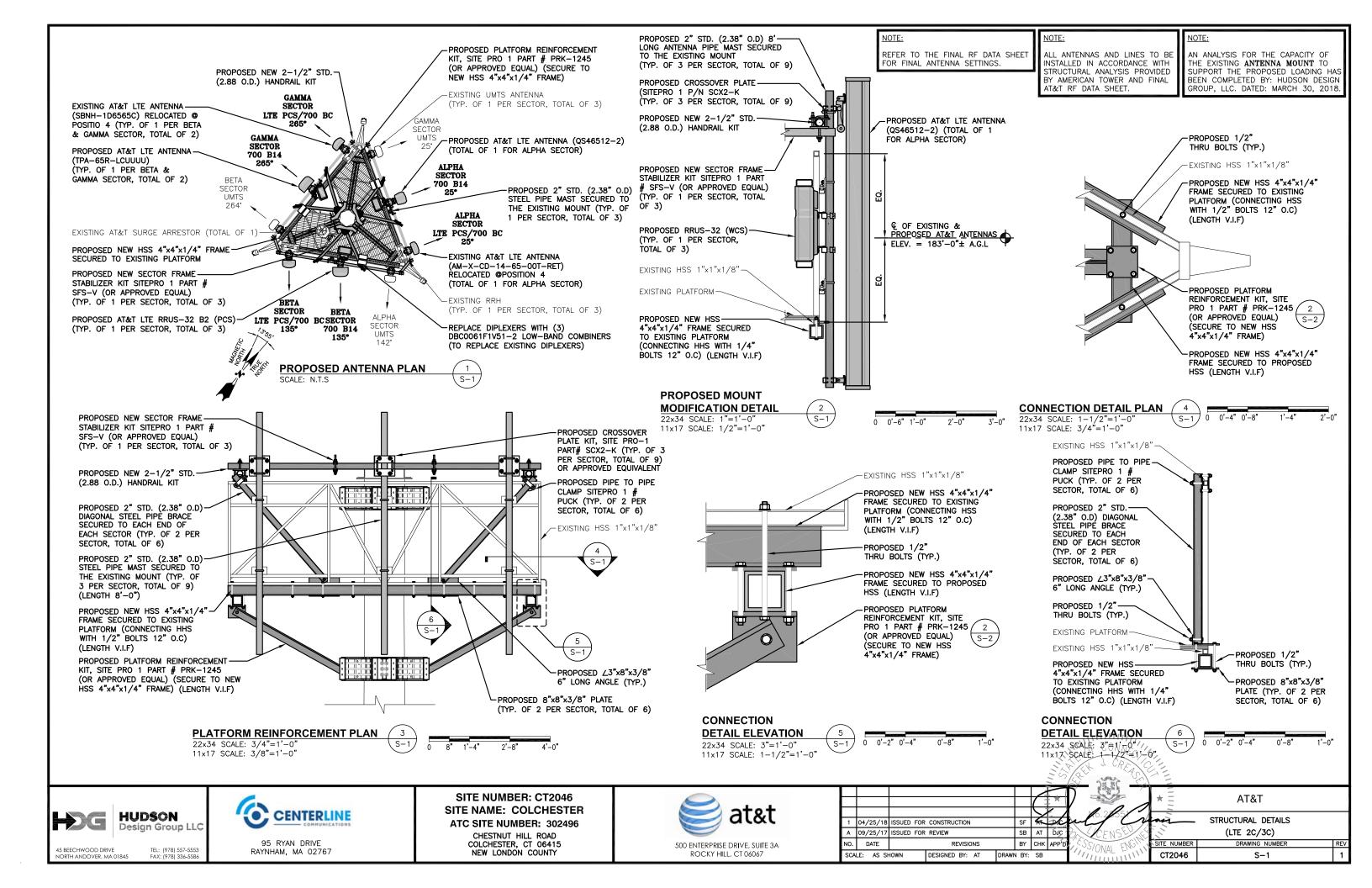
SITE NUMBER: CT2046 SITE NAME: COLCHESTER ATC SITE NUMBER: 302496

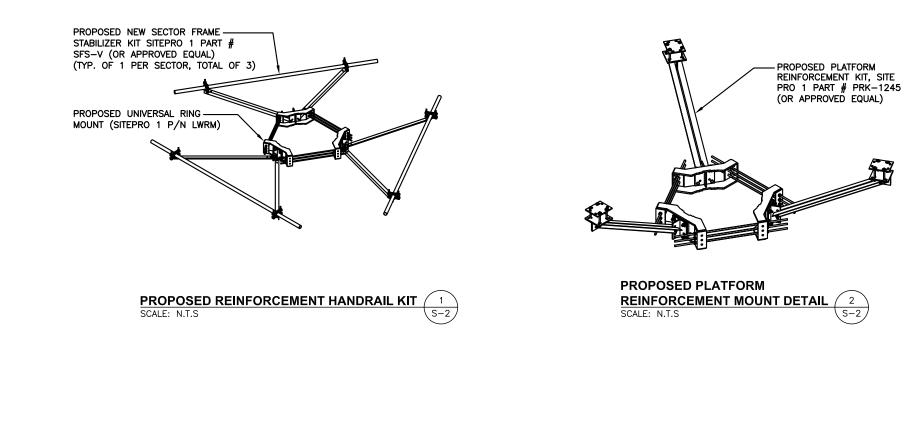


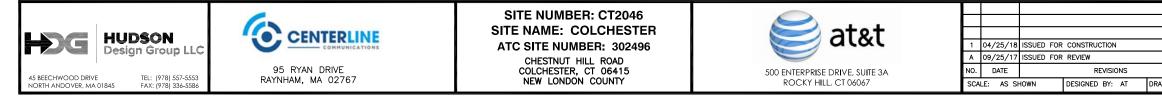


OF CONNECTURE											
								STATIC STATIS			
						$\left(\right)$	*		*	AT&T	
1	04/25/18	ISSUED FOR	CONSTRUCTION		SF	\mathbf{k}		ul Ch	mi	STRUCTURAL NOTES	
Α	09/25/17	ISSUED FOR	REVIEW		SB	AT	Doc	DALCENSE K		(LTE 2C/3C)	
NO.	DATE		REVISIONS		BY	снк	APP'D	SSIONIAL ENGLIN	SITE NUMBER	DRAWING NUMBER	REV
SCAL	LE: AS SH	HOWN	DESIGNED BY: AT	DRAWN	BY:	SB		MAL LUNN	CT2046	SN-1	1

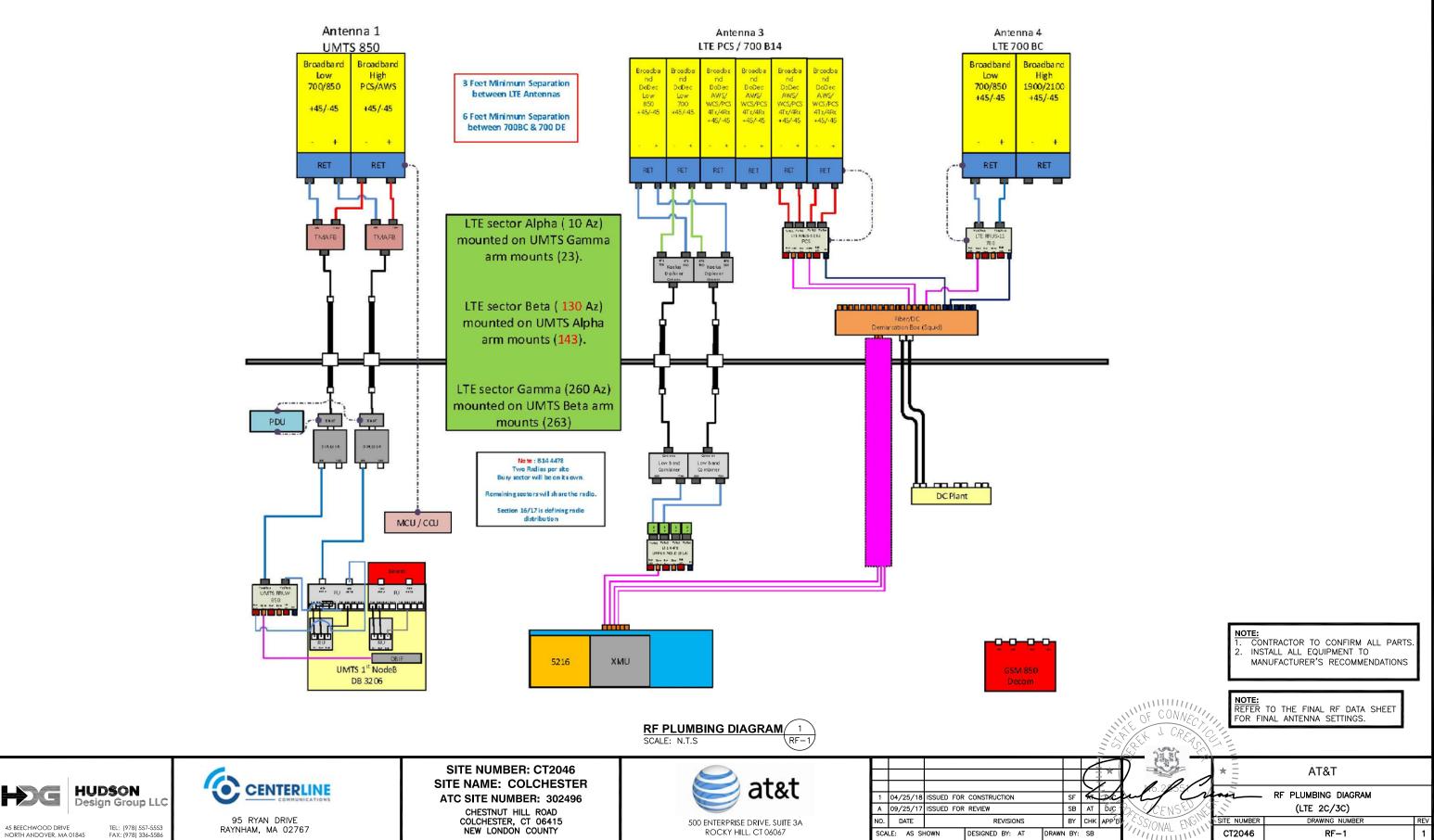
NO	TES:
1. 2.	REQUIRED FOR ANY <u>NEW</u> SHOP FABRICATED FRP OR STEEL. PROVIDED BY MANUFACTURER, REQUIRED IF HIGH STRENGTH
3. 4.	BOLTS OR STEEL. PROVIDED BY GENERAL CONTRACTOR; PROOF OF MATERIALS. HIGH WIND ZONE INSPECTION CATB 120MPH OR CAT C,D 110MPH INSPECT FRAMING OF WALLS, ANCHORING, FASTENING SCHEDULE.
5.	ADHESIVE FOR REBAR AND ANCHORS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ACI 355.4 AND ICC-ES AC308 FOR CRACKED CONCRETE AND SEISMIC APPLICATIONS. DESIGN ADHESIVE BOND STRENGTH HAS BEEN BASED ON ACI 355.4 TEMPERATURE CATEGORY B WITH INSTALLATIONS INTO DRY HOLES DRILLED USING A CARBIDE BIT INTO CRACKED CONCRETE THAT HAS CURED FOR AT LEAST 21 DAYS. ADHESIVE ANCHORS REQUIRING CERTIFIED INSTALLATIONS SHALL BE INSTALLED BY A CERTIFIED ADHESIVE ANCHOR INSTALLER PER ACI 318-11 D.9.2.2. INSTALLATIONS REQUIRING CERTIFIED INSTALLATIONS SHALL BE INSPECTED PER ACI 318-11 D.8.2.4.
6.	AS REQUIRED: FOR ANY FIELD CHANGES TO THE ITEMS IN
0.	THIS TABLE.
	THIS TABLE.
NC 1. 2.	THIS TABLE. TES: ALL CONNECTIONS TO BE SHOP WELDED & FIELD BOLTED USING 3/4"@ A325-X BOLTS, UNLESS OTHERWISE NOTIFIED. SHOP DRAWING ENGINEER REVIEW & APPROVAL REQUIRED BEFORE ORDERING MATERIAL.
NC 1. 2. 3.	THIS TABLE. TES: ALL CONNECTIONS TO BE SHOP WELDED & FIELD BOLTED USING 3/4" & A325-X BOLTS, UNLESS OTHERWISE NOTIFIED. SHOP DRAWING ENGINEER REVIEW & APPROVAL REQUIRED BEFORE ORDERING MATERIAL. SHOP DRAWING ENGINEER REVIEW & APPROVAL REQUIRED PRIOR TO STEEL FABRICATION.
NC 1. 2.	THIS TABLE. TES: ALL CONNECTIONS TO BE SHOP WELDED & FIELD BOLTED USING 3/4"¢ A325-X BOLTS, UNLESS OTHERWISE NOTIFIED. SHOP DRAWING ENGINEER REVIEW & APPROVAL REQUIRED BEFORE ORDERING MATERIAL. SHOP DRAWING ENGINEER REVIEW & APPROVAL REQUIRED
NC 1. 2. 3.	THIS TABLE. TTES: ALL CONNECTIONS TO BE SHOP WELDED & FIELD BOLTED USING 3/4" & A325-X BOLTS, UNLESS OTHERWISE NOTIFIED. SHOP DRAWING ENGINEER REVIEW & APPROVAL REQUIRED BEFORE ORDERING MATERIAL. SHOP DRAWING ENGINEER REVIEW & APPROVAL REQUIRED PRIOR TO STEEL FABRICATION. VERIFICATION OF EXISTING ROOF CONSTRUCTION IS REQUIRED PRIOR TO THE INSTALLATION OF THE ROOF PLATFORM. ENGINEER OF RECORD IS TO APPROVE EXISTING







		REAL	CONNECTOR				
	Č.			*	AT&T		
SF SB	AT DOC	ful	ENSE	m	STRUCTURAL D (LTE 2C/30	C)	
BY BY:	CHK APP	DY, SSION	VAL ENGINI	SITE NUMBER CT2046	DRAWING N S-2		RE 1





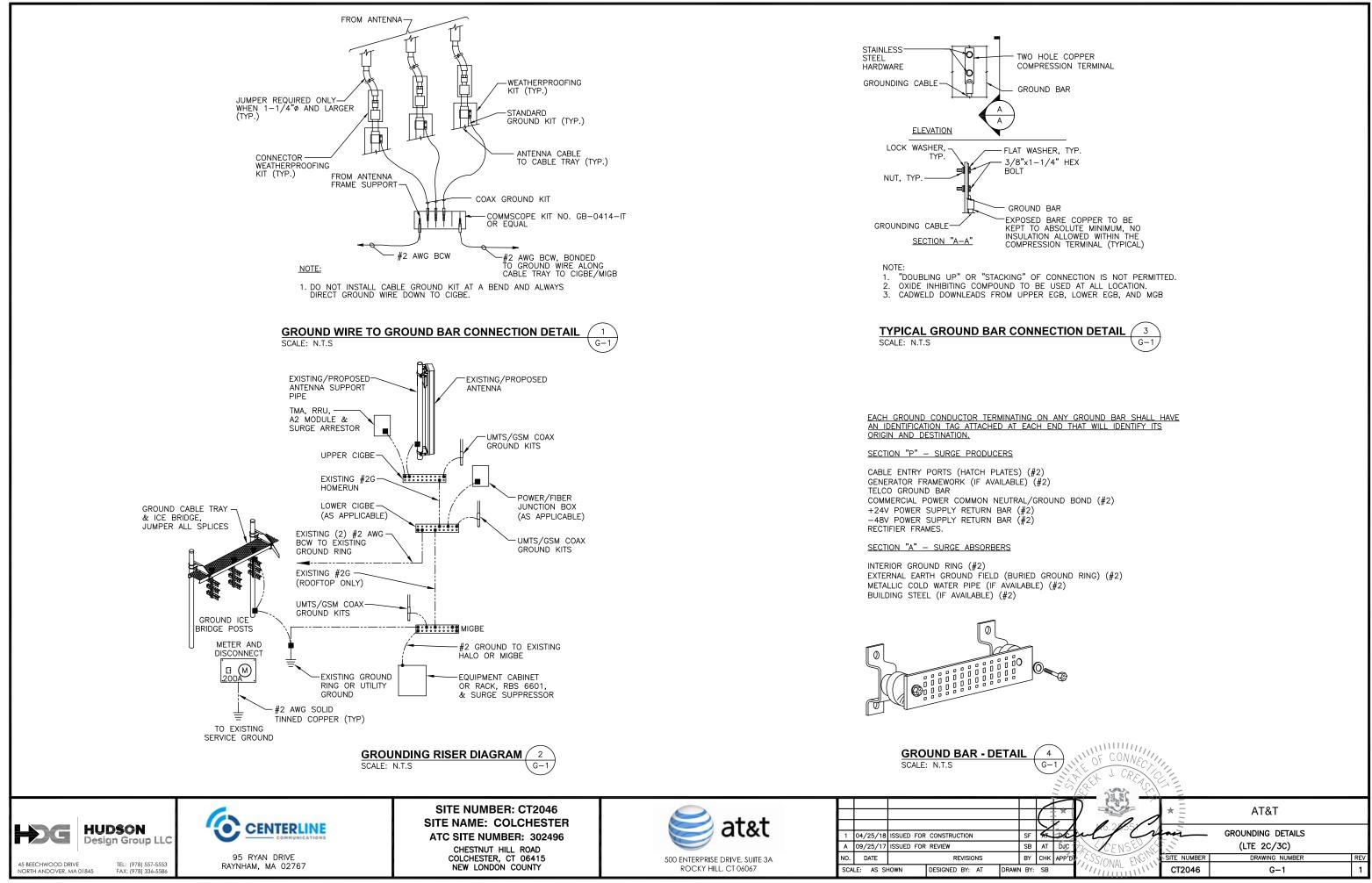




EXHIBIT 3

EXHIBIT 4



Radio Frequency Emissions Analysis Report

AT&T Existing Facility

Site ID: CT2046

FA#: 10035002

Colchester Chestnut Hill Road Colchester, CT 06415

July 24, 2018

Centerline Communications Project Number: 950012-130

Site Compliance Summary							
Compliance Status:	COMPLIANT						
Site total MPE% of FCC general population allowable limit:	1.98 %						



July 24, 2018

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

Emissions Analysis for Site: CT2046 - Colchester

Centerline Communications, LLC ("Centerline") was directed to analyze the proposed AT&T facility located at **Chestnut Hill Road, Colchester, CT**, for the purpose of determining whether the emissions from the Proposed AT&T Antenna Installation located on this property are within specified federal limits.

All information used in this report was analyzed as a percentage of current Maximum Permissible Exposure (% MPE) as listed in the FCC OET Bulletin 65 Edition 97-01 and ANSI/IEEE Std C95.1. The FCC regulates Maximum Permissible Exposure in units of microwatts per square centimeter (μ W/cm2). The number of μ W/cm² calculated at each sample point is called the power density. The exposure limit for power density varies depending upon the frequencies being utilized. Wireless Carriers and Paging Services use different frequency bands each with different exposure limits, therefore it is necessary to report results and limits in terms of percent MPE rather than power density.

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

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

Population exposure to radio frequencies is regulated and enforced in units of microwatts per square centimeter (μ W/cm²). The general population exposure limits for the 700 and 850 MHz Bands are approximately 467 μ W/cm² and 567 μ W/cm² respectively. The general population exposure limit for the 1900 MHz (PCS), 2100 MHz (AWS) and 2300 MHz (WCS) bands is 1000 μ W/cm². Because each carrier will be using different frequency bands, and each frequency band has different exposure limits, it is necessary to report percent of MPE rather than power density.



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

Additional details can be found in FCC OET 65.



CALCULATIONS

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

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

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

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

Technology	Frequency Band	Channel Count	Transmit Power per Channel (W)
UMTS	850 MHz	2	30
UMTS	1900 MHz (PCS)	2	30
LTE	700 MHz (Band 14)	4	40
LTE	1900 MHz (PCS)	4	40
LTE	700 MHz	2	40

Table 1: Channel Data Table



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

			Antenna
	Antenna		Centerline
Sector	Number	Antenna Make / Model	(ft)
А	1	Powerwave 7770	183
А	2	Quintel QS46512-2	183
А	3	KMW AM-X-CD-14-65-00T-RET	183
В	1	Powerwave 7770	183
В	2	CCI TPA-65R-LCUUUU-H8	183
В	3	Commscope SBNH-1D6565C	183
С	1	Powerwave 7770	183
С	2	CCI TPA-65R-LCUUUU-H8	183
С	3	Commscope SBNH-1D6565C	183

Table 2: Antenna Data

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



RESULTS

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

Antenna			Antenna Gain	Channel	Total TX Power		
ID	Antenna Make / Model	Frequency Bands	(dBd)	Count	(W)	ERP (W)	MPE %
Antenna A1	Powerwave 7770	850 MHz / 1900 MHz (PCS)	11.4 / 13.4	4	120	2,140.89	0.32
Antenna A2	Quintel QS46512-2	700 MHz (Band 14) / 1900 MHz (PCS)	10.55 / 13.15	8	320	5,120.63	0.83
Antenna	KMW	1900 MHZ (1 CD)	10.55715.15	0	520	5,120.05	0.05
A3	AM-X-CD-14-65-00T-RET	700 MHz	11.85	2	80	1,224.87	0.30
Sector A Composite MPE%				1.44			
Antenna B1	Powerwave 7770	850 MHz / 1900 MHz (PCS)	11.4 / 13.4	4	120	2,140.89	0.32
Antenna B2	CCI TPA-65R-LCUUUU-H8	700 MHz (Band 14) / 1900 MHz (PCS)	12.95 / 13.75	8	320	6,950.07	1.21
Antenna B3	Commscope SBNH-1D6565C	700 MHz	13.65	2	80	1,853.92	0.46
Sector B Composite MPE%						1.98	
Antenna C1	Powerwave 7770	850 MHz / 1900 MHz (PCS)	11.4 / 13.4	4	120	2,140.89	0.32
Antenna C2	CCI TPA-65R-LCUUUU-H8	700 MHz (Band 14) / 1900 MHz (PCS)	12.95 / 13.75	8	320	6,950.07	1.21
Antenna C3	Commscope SBNH-1D6565C	700 MHz	13.65	2	80	1,853.92	0.46
Sector C Composite MPE%						1.98	

Table 3: AT&T Emissions Levels



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

Site Composite MPE%				
Carrier	MPE%			
AT&T – Sectors B & C	1.98 %			
No Additional Carriers at This Facility	NA			
Site Total MPE %:	1.98 %			

Table 4: All Carrier MPE Contributions

AT&T Sector A Total:	1.44 %		
AT&T Sector B Total:	1.98 %		
AT&T Sector C Total:	1.98 %		
Site Total:	1.98 %		

Table 5: Site MPE Summary



FCC OET 65 specifies that for carriers utilizing directional antennas that the highest recorded sector value be used for composite site MPE values due to their greatly reduced emissions contributions in the directions of the adjacent sectors. *Table 6* below details a breakdown by frequency band and technology for the MPE power values for the maximum calculated AT&T sector(s). For this site, the sectors with the largest calculated MPE% are Sectors B & C.

AT&T _ Frequency Band / Technology Max Power Values (Sectors B & C)	# Channels	Watts ERP (Per Channel)	Height (feet)	Total Power Density (µW/cm ²)	Frequency (MHz)	Allowable MPE (µW/cm ²)	Calculated % MPE
AT&T 850 MHz UMTS- Antenna 1	2	414.12	183	0.95	850 MHz	567	0.17%
AT&T 1900 MHz (PCS) UMTS – Antenna 1	2	656.33	183	1.51	1900 MHz (PCS)	1000	0.15%
AT&T 700 MHz LTE (Band 14) – Antenna 2	4	788.97	183	3.62	700 MHz	467	0.77%
AT&T 1900 MHz (PCS) LTE – Antenna 2	4	948.55	183	4.35	1900 MHz (PCS)	1000	0.44%
AT&T 700 MHz LTE – Antenna 3	2	926.96	183	2.13	700 MHz	467	0.46%
						Total:	1.98%

Table 6: AT&T Maximum Sector MPE Power Values



Summary

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

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

AT&T Sector	Power Density Value (%)
Sector A:	1.44 %
Sector B:	1.98 %
Sector C:	1.98 %
AT&T Maximum Total (Sectors B & C):	1.98 %
Site Total:	1.98 %
Site Compliance Status:	COMPLIANT

The anticipated composite MPE value for this site assuming all carriers present is **1.98** % of the allowable FCC established general population limit sampled at the ground level. This is based upon values listed in the Connecticut Siting Council database for existing carrier emissions.

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

Scott Heffernan RF Engineering Director Centerline Communications, LLC 95 Ryan Drive, Suite 1 Raynham, MA 02767

EXHIBIT 5



March 19, 2018



Centerline Communications 95 Ryan Drive Raynham, MA 02767

RE: Site Number: CT2046 (LTE 2C/3C) FA Number: 10035002 PACE Number: MRCTB023521 PTN Number: 2051 A0B8WQ Site Name: COLCHESTER Site Address: Chestnut Hill Road Colchester, CT 06415

To Whom It May Concern:

Hudson Design Group LLC (HDG) has been authorized by Centerline Communications to perform a mount analysis on the existing AT&T antenna mount to determine their capability of supporting the following equipment loading:

- (3) 7770 Antennas (55.0"x11.0"x5.0" Wt. = 35 lbs. /each)
- (1) AM-X-CD-14-05-OOT-RET Antenna (48.0"x11.8"x5.9" Wt. ≈ 37 lbs.)
- (3) RRUS-11 RRH's (19.7"x17.0"x7.2" Wt. = 51 lbs. /each)
- (1) B14 4478 RRH (18.1"x13.4"x8.3" Wt. = 60 lbs. /each)
- (6) LPG 17201 TMA's (14.0"x7.0"x2.7" Wt. = 19 lbs. /each)
- (1) Squid Surge Arrestor (24.0"x9.7"ø Wt. = 33 lbs.) (Tower Mounted)
- (1) Q\$46512-2 Antenna (52.0"x12.0"x10.8" Wt. = 75 lbs.)
- (2) SBNH-1D6565C Antennas (96.4"x11.9"x7.1" Wt. = 61 lbs. /each)
- (2) TPA-65R-LCUUUU-H8 Antennas (96.0"x14.4"x8.6" Wt. = 75 lbs. /each)
- (3) RRUS-32 B2 RRH's (27.2"x12.1"x7" Wt. = 60 lbs. /each)
- (6) DBC0061F151-2 Diplexers (8.0"x6.2"x6.5" Wt. = 26 lbs. /each)

*Proposed Loading Shown in Bold.

No original structural design documents or fabrication drawings were available for the existing mounts. HDG's subconsultant, ProVertic LLC, conducted a survey climb and mapping of the existing AT&T antenna mounts on September 18, 2017. Based on our analysis, we have determined that the existing antenna mount **<u>IS NOT CAPABLE</u>** of supporting the proposed installation. HDG recommends the following modifications:

- Install new 2-1/2" std. (2.88" O.D.) handrail kit (typ. of 1 per sector, total of 3).
- Install new sector frame stabilizer kit, SitePro1 P/N SFS-v (or approved equal) (typ. of 1 per sector, total of 3).
- Install new HSS 4x4x1/4 frame, secure to existing platform.
- Install new platform reinforcement kit, SitePro1 P/N PRK-1245 (or approved equal), secure to new HSS 4x4x1/4 frame.
- Install new 2" std. (2.38" O.D.) diagonal pipe braces, typ. each end of each sector (typ. of 2 per sector, total of 6).
- Install new 2" std. (2.38" O.D.) pipe mast, secure to existing mount (typ. of 2 per sector, total of 6).
- Secure new and existing pipe masts to each horizontal member.

	Member	Controlling Load Case	Stress Ratio	Pass/Fail
Existing 2C/3C Mount Rating	79	LC2	446%	FAIL
Proposed 2C/3C Mount Rating	81	LC5	97%	PASS

This analysis was conducted in accordance with EIA/TIA-222-G, Structural Standards for Steel Antenna Towers and Antenna Supporting Structures, International Building Code 2012, and 2005 Connecticut Supplement with 2016 amendments. (See the attached analysis).

Reference Documents:

• Mount mapping data prepared by ProVertic LLC.

This determination was based on the following limitations and assumptions:

- 1. HDG is not responsible for any modifications completed prior to and hereafter which HDG was not directly involved.
- 2. All structural members and their connections are assumed to be in good condition and are free from defects with no deterioration to its member capacities.
- 3. All antennas, coax cables and waveguide cables are assumed to be properly installed and supported as per the manufacturer's requirements.
- 4. The existing mount has been adequately secured to the tower structure per the mount manufacturer's specifications.
- 5. All components pertaining to AT&T's mounts must be tightened and re-plumbed prior to the installation of new appurtenances.
- 6. HDG performed a localized analysis on the mount itself and not on the supporting tower structure.

Please feel free to contact our office should you have any questions.

Respectfully Submitted, Hudson Design Group LLC

ulad Clf

Michael Cabral Structural Dept. Head



p: 978.557.5553 f: 978.336.5586 a: 45 Beechwood Drive, N. Andover, MA 01845 p: 413.588.8139 f: 413.517.0590 a: 116 Pleasant Street, Ste 302, Easthampton, MA 01027

Page 3 of 4 Re: CT2046 March 19, 2018

FIELD PHOTOS:





p: 978.557.5553 f: 978.336.5586 a: 45 Beechwood Drive, N. Andover, MA 01845 p: 413.588.8139 f: 413.517.0590 a: 116 Pleasant Street, Ste 302, Easthampton, MA 01027



Wind & Ice Calculations



2.6.5.2 Velocity Pressure Coeff:

$K_z = 2.01 (z/z_g)^{2/\alpha}$		z=	183 (ft)
		z _g =	1200 (ft)
K _z =	1.174	α=	7.0

Kzmin \leq Kz \leq 2.01

Table 2-4

Exposure	Zg	α K _{zmin}		K _e
В	1200 ft	7.0	0.70	0.9
С	900 ft	9.5	0.85	1.0
D	700 ft	11.5	1.03	1.1

2.6.6.4 Topographic Factor:

Table 2-5

Topo. Category	K _t	f	
2	0.43	1.25	
3	0.53	2.0	
4	0.72	1.5	

 $K_{zt} = [1 + (K_e K_t / K_h)]^2$

K_{zt}= #DIV/0!

(If Category 1 then K _{zt} =1.0)

Category=	1

 $K_h = e^{(f^*z/H)}$

K _h =	#DIV/0!
K _e =	0 (from Table 2-4)
K _t =	0 (from Table 2-5)
f=	0 (from Table 2-5)
z=	183
H=	0 (Ht. of the crest above surrounding terrain)
K _{zt} =	1.00



Gh= 1.35	cructures on buildings (ht. : width ratio > 5) Gh= 1.10	
(Cantiliverea tubular or latticea spines, pole, sti	ructures on buildings (ht. : width ratio > 5)	
(Constitutioned to be low an last in advantage on the st		
2.6.7.4 Structures Supported on Other Structure	<u>es</u>	
2.6.9 Appurtenances	Gh= 1.0	
2.6.7.3 Pole Structures	Gh= 1.1	
2.6.7.2. Polo Structuros	Ch- 11	
2.6.7.2 Guyed Masts	Gh= 0.85	
h= 180	Gh= 0.85	
Gh = 0.85 + 0.15 [h/150 - 3.0]	h= ht. of structure	
Gh = 0.85 Latticed Structures 450 ft or less		
Gh = 1.0 Latticed Structures > 600 ft		
2.6.7.1 Self Supporting Lattice Structures		
2 6 7 1 Colf Cupporting Lattice Structures		

Structure Type	Wind Direction Probability Factor, Kd
Latticed structures with triangular, square or rectangular cross sections	0.85
Tubular pole structures, latticed structures with other cross sections, appurtenances	0.95



Determine Ca:

Table 2-8

Force Coefficients (Ca) for Appurtenances							
Member Type Flat		Aspect Ratio ≤ 2.5	Aspect Ratio = 7	Aspect Ratio ≥ 25 Ca 2.0 1.2			
		Ca	Ca				
		1.2	1,4				
Round C < 32 (Subcritical)		0.7	0.8				
	32 ≤ C ≤ 64 (Transitional)	3.76/(C ^{0,485})	3.37/(C ^{0,415})	38.4/(C ^{-1,0})			
	C > 64 (Supercritical)	0.5	0.6	0.6			

Aspect Ratio is the overall length/width ratio in the plane normal to the wind direction.

(Aspect ratio is independent of the spacing between support points of a linear appurtenance,

Note: Linear interpolation may be used for aspect ratios other than those shown.

Ice Thickness =	0.75	in	Angle =	0 (deg)	E	Equival	ent Angle =	180 (deg)
Appurtenances	<u>Height</u>	Width	<u>Depth</u>	Flat Area	<u>Aspect</u> <u>Ratio</u>	Ca	Force (lbs)	Force (lbs) (w/ lce)
7770 Antenna	55.0	11.0	5.0	4.20	5.00	1.31	249	51
QS46512-2 Antenna	52.0	12.0	10.8	4.33	4.33	1.28	251	50
AM-X-CD-14-05-OOT-RET Antenna	48.0	11.8	5.9	3.93	4.07	1.27	226	46
SBNH-1D6565C Antenna	96.4	11.9	7.1	7.97	8.10	1.44	518	103
TPA-65R-LCUUUU-H8 Antenna	96.0	14.4	8.6	9.60	6.67	1.39	602	117
RRUS-11 RRH	19.7	17.0	7.2	2.33	1.16	1.20	126	26
RRUS-11 RRH (Shielded)	19.7	5.0	7.2	0.68	3.94	1.26	39	10
RRUS-11 RRH (Shielded)	19.7	2.6	7.2	0.36	7.58	1.42	23	7
RRUS-32 B2 RRH	27.2	12.1	7.0	2.29	2.25	1.20	124	26
B14 4478 RRH	18.1	13.4	8.3	1.68	1.35	1.20	91	19
B14 4478 RRH (Shielded)	18.1	1.4	8.3	0.18	12.93	1.60	13	5
LPG 17201 TMA	14.0	7.0	2.7	0.68	2.00	1.20	37	9
DBC0061F151-2 Diplexer	8.0	6.2	6.5	0.34	1.29	1.20	19	5
Squid Surge Arrestor	24.0	9.7	9.7	1.62	2.47	0.70	51	11
S Tube 1x1x1/8	1.0	12.0		0.08	0.08	1.20	5	2
2" Pipe	2.4	12.0		0.20	0.20	0.70	6	2
Unistrut P1000	1.6	12.0		0.14	0.14	1.20	7	3
C 3x6	3.0	12.0		0.25	0.25	1.20	14	4
L 3x3x1/4 Angle	3.0	12.0		0.25	0.25	1.20	14	4

Angle = 30	Ideal		Ice Thickr		0.75	in 1		1	Eautor	lant Angle -	210	(deal
Angle = 30	(deg)			1622 =	0.75	in.			Equiva	lent Angle =	210	(deg)
WIND LOADS WITH NO ICE:												
ppurtenances	<u>Height</u>	<u>Width</u>	Depth	Flat Area (normal)	Flat Area (side)	Aspect Ratio	Aspect Ratio	Ca (normal)	<u>Ca</u>	Force (lbs) (normal)	Force (lbs) (side)	Force (lbs) (angle)
7770 Antenna	55.0	11.0	5.0	4.20	1.91	5.00	11,00	1.31	1,53	249	132	220
QS46512-2 Antenna	52.0	12.0	10.8	4.33	3.90	4,33	4,81	1.28	1.30	251	230	246
AM-X-CD-14-05-OOT-RET Ant	enna 48.0	11.8	5.9	3.93	1.97	4.07	8.14	1.27	1.44	226	128	201
SBNH-1D656SC Antenna	96.4	11.9	7.1	7.97	4.75	8.10	13.58	1.44	1.62	518	348	475
TPA-65R-LCUUUU-H8 Antenn	a 96.0	14.4	8.6	9.60	5.73	6.67	11.16	1,39	1.54	602	399	551
RRUS-11 RRH	19.7	17.0	7.2	2.33	0.99	1,16	2,74	1,20	1.21	126	54	108
RRUS-11 RRH (Shielded)	19.7	8,5	7.2	1.16	0.99	2.32	2.74	1.20	1.21	63	54	61
RRUS-32 B2 RRH	27.2	12.1	7.0	2.29	1.32	2.25	3.89	1,20	1,26	124	75	112
B14 4478 RRH	18.1	13.4	8.3	1.68	1.04	1.35	2.18	1.20	1.20	91	57	83
B14 4478 RRH (Shielded)	18.1	6.7	8,3	0.84	1.04	2.70	2.18	1,21	1,20	46	57	49
LPG 17201 TMA	14.0	7.0	2.7	0.68	0.26	2.00	5,19	1,20	1,32	37	16	32
DBC0061F151-2 Diplexer	8.0	6.2	6.5	0.34	0.36	1,29	1,23	1.20	1.20	19	20	19
Squid Surge Arrestor	24.0	9.7	9.7	1.62	1.62	2.47	2.47	1.20	1.20	88	88	88
WIND LOADS WITH ICE:												
7770 Antenna	55.0	11.0	5.0	4.20	1.91	5.00	11,00	1,31	1,53	43	23	38
QS46512-2 Antenna	52.0	12.0	10.8	4.33	3.90	4.33	4.81	1.28	1.30	44	40	43
AM-X-CD-14-05-OOT-RET Ant	enna 48.0	11.8	5.9	3.93	1.97	4.07	8.14	1.27	1,44	39	22	35
5BNH-1D6565C Antenna	96.4	11.9	7.1	7.97	4.75	8.10	13,58	1.44	1.62	90	60	83
IPA-65R-LCUUUU-H8 Antenn	a 96.0	14.4	8.6	9.60	5.73	6.67	11.16	1.39	1.54	104	69	96
RUS-11 RRH RRUS-11 RRH (Shielded)	19.7 19.7	17.0 8.5	7.2 7.2	2.33 1.16	0.99 0.99	1.16 2.32	2.74 2.74	1.20 1.20	1,21 1.21	22 11	9 9	19 11
RRUS-32 B2 RRH	27.2	12.1	7.0	2.29	1.32	2.25	3,89	1,20	1,26	22	13	19
314 4478 RRH 314 4478 RRH (Shielded)	18.1 18.1	13.4 6.7	8.3 8.3	1.68 0.84	1.04 1.04	1.35 2.70	2.18 2.18	1.20 1.21	1.20 1.20	16 8	10 10	14 8
.PG 17201 TMA	14.0	7.0	2.7	0.68	0.26	2.00	5.19	1,20	1.32	6	3	5
DBC0061F151-2 Diplexer	8.0	6.2	6.5	0.34	0.36	1.29	1.23	1.20	1.20	3	3	3
Squid Surge Arrestor	24.0	9.7	9.7	1.62	1.62	2.47	2.47	1.20	1.20	15	15	15

RRUS-32 B2 RRH

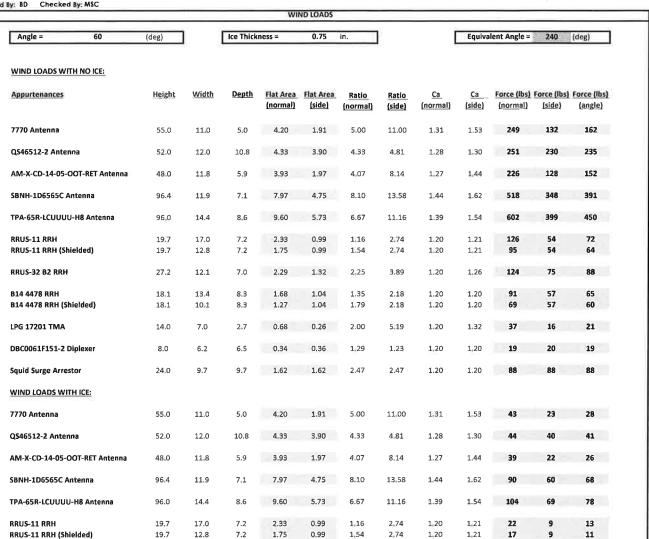
B14 4478 RRH (Shielded)

DBC0061F151-2 Diplexer

Squid Surge Arrestor

B14 4478 RRH

LPG 17201 TMA



2.29

1.27

1.68

0.68

0.34 0.36

1.62 1.62

7.0

8.3

8.3

2.7

6.5

9.7

27.2

18.1

18.1

14.0

8.0

24.0

12,1

13.4

10.1

7.0

6.2

9.7

1.32

1.04

1.04

0.26

2.25

1.35

1.79

2.00

1.29

2.47

3.89

2.18

2.18

5,19

1.23

2.47

1.20

1.20

1.20

1.20

1.20

1.20

1.26

1.20

1.20

1,32

1,20

1.20

22

16

12

6

3

13

10

10

3

3

15 15

15

11

4

3

15

10

HUDSON

Design Group LLC

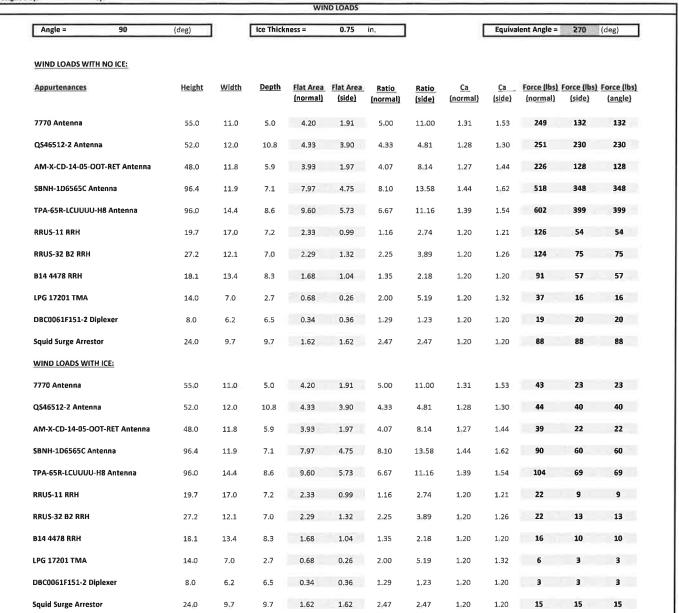
HOG

 Dale:
 3/19/2018

 Project Name:
 COLCHESTER

 Project Number:
 CT2046

 Designed By:
 BD
 Checked By: MSC





HUDSON Design Group LLC



Angle = 120	(deg)		Ice Thick	ness =	0.75	in,			Foulse	lent Angle =	300	(deg)
Augue - 120	(neg)		Lice Thick		0.75	m,		ļ	Edula	ent Angre =	500	(deg)
WIND LOADS WITH NO ICE:												
Appurtenances	<u>Height</u>	<u>Width</u>	Depth	Flat Area	Flat Area	Ratio	Ratio	Ca	Ca	Force (lbs)	Force (lhs)	Force (lbs)
reportentites	Incigite	<u>irracii</u>	<u>beptin</u>	(normal)	(side)	(normal)	(side)	(normal)	(side)	(normal)	(side)	(angle)
7770 Antenna	55.0	11.0	5.0	4.20	1.91	5.00	11,00	1.31	1.53	249	132	162
QS46512-2 Antenna	52.0	12.0	10.8	4,99	3.90	4,33	4_81	1.28	1.30	251	230	235
AM-X-CD-14-05-OOT-RET Antenna	48.0	11.8	5.9	3.93	1.97	4.07	8,14	1,27	1_44	226	128	152
SBNH-1D6565C Antenna	96.4	11.9	7.1	7.97	4.75	8.10	13.58	1,44	1.62	518	348	391
TPA-65R-LCUUUU-H8 Antenna	96.0	14.4	8.6	9.60	5.73	6.67	11.16	1.39	1.54	602	399	450
RRUS-11 RRH	19.7	17.0	7.2	2.33	0.99	1,16	2.74	1.20	1.21	126	54	72
RRUS-11 RRH (Shielded)	19.7	8.5	7.2	1.16	0.99	2,32	2.74	1,20	1.21	63	54	56
RRUS-32 B2 RRH	27.2	12.1	7.0	2.29	1.32	2.25	3.89	1.20	1,26	124	75	88
B14 4478 RRH	18.1	13.4	8.3	1.68	1.04	1.35	2.18	1.20	1.20	91	57	65
B14 4478 RRH (Shielded)	18.1	6.7	8.3	0.84	1.04	2.70	2.18	1.21	1.20	46	57	54
LPG 17201 TMA	14.0	7.0	2.7	0.68	0.26	2.00	5.19	1.20	1.32	37	16	21
DBC0061F151-2 Diplexer	8.0	6.2	6.5	0,34	0.36	1,29	1,23	1,20	1,20	19	20	19
Squid Surge Arrestor	24.0	9.7	9.7	1.62	1.62	2.47	2,47	1,20	1,20	88	88	88
WIND LOADS WITH ICE:												
7770 Antenna	55.0	11.0	5.0	4.20	1.91	5.00	11.00	1,31	1.53	43	23	28
Q546512-2 Antenna	52.0	12.0	10.8	4.33	3.90	4.33	4.81	1,28	1,30	44	40	41
AM-X-CD-14-05-OOT-RET Antenna	48.0	11.8	5.9	3.93	1.97	4.07	8.14	1.27	1.44	39	22	26
SBNH-1D6565C Antenna	96.4	11.9	7,1	7.97	4.75	8.10	13,58	1,44	1.62	90	60	68
TPA-65R-LCUUUU-H8 Antenna	96.0	14.4	8.6	9.60	5.73	6.67	11.16	1.39	1,54	104	69	78
RRUS-11 RRH	19.7	17.0	7.2	2.33	0.99	1.16	2.74	1.20	1.21	22	9	13
RRUS-11 RRH (Shielded)	19.7	8,5	7.2	1.16	0.99	2.32	2.74	1,20	1.21	11	9	10
RRUS-32 B2 RRH	27.2	12.1	7.0	2.29	1.32	2.25	3,89	1.20	1,26	22	13	15
B14 4478 RRH	18.1	13,4	8.3	1.68	1.04	1.35	2.18	1,20	1,20	16	10	11
B14 4478 RRH (Shielded)	18.1	6.7	8.3	0.84	1.04	2,70	2,18	1,21	1,20	8	10	9
LPG 17201 TMA	14.0	7.0	2.7	0.68	0.26	2.00	5.19	1.20	1.32	6	3	4
DBC0061F151-2 Diplexer	8.0	6.2	6.5	0.34	0.36	1.29	1.23	1.20	1.20	Э	Э	3
Squid Surge Arrestor	24.0	9.7	9.7	1.62	1.62	2.47	2.47	1.20	1,20	15	15	15



							5	2				
Angle = 150	(deg)		Ice Thick	ness =	0.75	in.		[Equiva	lent Angle =	330	(deg)
WIND LOADS WITH NO ICE:												
Appurtenances	<u>Height</u>	<u>Width</u>	<u>Depth</u>	Flat Area (normal)	Flat Area (side)	Ratio (normal)	Ratio (side)	<u>Ca</u> (normal)	<u>Ca</u> (side)	Force (lbs) (normal)	Force (lbs) (side)	Force (lbs) (angle)
7770 Antenna	55.0	11.0	5.0	4.20	1.91	5.00	11.00	1,31	1,53	249	132	220
QS46512-2 Antenna	52.0	12.0	10.8	4.33	3.90	4.33	4.81	1.28	1.30	251	230	246
AM-X-CD-14-05-OOT-RET Antenna	48.0	11.8	5,9	3.93	1.97	4.07	8.14	1.27	1.44	226	128	201
SBNH-1D6565C Antenna	96.4	11.9	7.1	7.97	4.75	8,10	13,58	1,44	1.62	518	348	475
TPA-65R-LCUUUU-H8 Antenna	96,0	14.4	8.6	9.60	5.73	6.67	11,16	1,39	1,54	602	399	551
RRUS-11 RRH	19.7	17.0	7.2	2.33	0.99	1.16	2.74	1.20	1,21	126	54	108
RRUS-11 RRH (Shielded)	19.7	12.8	7,2	1.75	0.99	1.54	2.74	1.20	1.21	95	54	85
RRUS-32 B2 RRH	27.2	12.1	7,0	2.29	1.32	2,25	3,89	1.20	1.26	124	75	112
B14 4478 RRH	18.1	13.4	8.3	1.68	1.04	1,35	2,18	1,20	1,20	91	57	83
B14 4478 RRH (Shielded)	18.1	10.1	8.3	1.27	1.04	1.79	2.18	1,20	1.20	69	57	66
LPG 17201 TMA	14.0	7.0	2.7	0.68	0.26	2.00	5.19	1.20	1,32	37	16	32
DBC0061F151-2 Diplexer	8.0	6.2	6,5	0.34	0.36	1.29	1.23	1.20	1.20	19	20	19
Squid Surge Arrestor	24.0	9.7	9.7	1.62	1.62	2,47	2,47	1,20	1,20	88	88	88
WIND LOADS WITH ICE:												
7770 Antenna	55.0	11.0	5.0	4.20	1.91	5.00	11.00	1.31	1.53	43	23	38
Q546512-2 Antenna	52.0	12.0	10.8	4.33	3.90	4,33	4.81	1,28	1.30	44	40	43
AM-X-CD-14-05-OOT-RET Antenna	48.0	11.8	5.9	3.93	1.97	4.07	8,14	1,27	1,44	39	22	35
SBNH-1D6565C Antenna	96.4	11.9	7.1	7.97	4.75	8.10	13.58	1.44	1.62	90	60	83
TPA-65R-LCUUUU-H8 Antenna	96.0	14.4	8.6	9.60	5.73	6,67	11,16	1,39	1,54	104	69	96
RRUS-11 RRH	19.7	17.0	7.2	2.33	0.99	1.16	2.74	1.20	1.21	22	9	19
RRUS-11 RRH (Shielded)	19.7	12.8	7,2	1.75	0.99	1.54	2.74	1.20	1.21	17	9	15
RRUS-32 B2 RRH	27.2	12.1	7.0	2.29	1.32	2,25	3.89	1.20	1.26	22	13	19
B14 4478 RRH	18.1	13.4	8.3	1.68	1.04	1.35	2.18	1.20	1.20	16	10	14
B14 4478 RRH (Shielded)	18.1	10.1	8,3	1.27	1.04	1.79	2,18	1,20	1.20	12	10	11
LPG 17201 TMA	14.0	7,0	2.7	0.68	0.26	2.00	5.19	1.20	1,32	6	3	5
DBC0061F151-2 Diplexer	8.0	6.2	6.5	0.34	0.36	1.29	1.23	1.20	1.20	3	3	3
Squid Surge Arrestor	24.0	9.7	9.7	1.62	1.62	2.47	2.47	1,20	1.20	15	15	15

3/19/201	8	
COLCHE	STER	
CT2046		
BD	Checked by:	MSC
	COLCHE CT2046	



ICE WEIGHT CALCULATIONS

Thickness of ice:	0.75	in.
Density of ice:	56	pcf

7770 Antenna

Weight of ice based on total radial SF area; Height (in): 55.0 Width (in): 11.0 Depth (in): 5.0 Total weight of ice on object: 51 lbs Weight of object: 35 lbs Combined weight of ice and object: 86 lbs

AM-X-CD-14-05-OOT-RET Antenna

Farea:
48.0
11.8
5.9
50 lbs
37 lbs
87 lbs

TPA-65R-LCUUUU-H8 Antenna

Weight of ice based on total radial S	Farea:
Height (in):	96.0
Width (in):	14.4
Depth (in):	8.6
Total weight of ice on object:	122 lbs
Weight of object:	75 lbs
Combined weight of ice and object:	197 lbs

B14 4478 RRH

Farea:	
18.1	
13.4	
8.3	
28 I	bs
60 lbs	
88	bs
	13.4 8.3 28 60 bs

DBC0061F151-2 Diplexer

Weight of ice based on total radial SI	Farea:
Height (in):	8.0
Width (in):	6.2
Depth (in):	6.5
Total weight of ice on object:	9 lbs
Weight of object:	26 lbs
Combined weight of ice and object:	35 lbs

Squid Surge Arrestor

Combined weight of ice and object:	63 lbs
Weight of object:	33 lbs
Total weight of ice on object:	30 lbs
Depth (in):	9.7
Width (in):	9.7
Height (in):	24.0
Weight of ice based on total radial S	F area:

Unistrut P1000

Weight of ice based on total radia	al SF area:		
Height (in):	1.625		
Width (in):	1.625		
Per foot weight of ice on object:		3 plf	

<u>C 3x6</u>

Weight of ice based on total radia	al SF area:	
Height (in):	3	
Width (in):	1.625	
Per foot weight of ice on object:		4 plf

Q\$46512-2 Antenna

Combined weight of ice and object:	6	44	lbs
Weight of object:	75 lbs		
Total weight of ice on object:		69	lbs
Depth (in):	10.8		
Width (in):	12.0		
Height (in):	52.0		
Weight of ice based on total radial S	SF area:		

SBNH-1D6565C Antenna

Weight of ice based on total radial !	SF area	э:
Height (in):	96.4	
Width (in):	11.9	
Depth (in):	7.1	
Total weight of ice on object:		102 lbs
Weight of object:	61 i	bs
Combined weight of ice and object:		163 lbs

RRUS-11 RRH

al SF area	:
19.7	
17.0	
7.2	
	32 lbs
51 lb	s
ct:	83 lbs
	19.7 17.0 7.2 51 lb

RRUS-32 B2 RRH

Weight of ice based on total rad	ial SF area:		
Height (in):	27.2		
Width (in):	12.1		
Depth (in):	7.0		
Total weight of ice on object:		33	lbs
Weight of object:	60 lb:	s	
Combined weight of ice and obje	ect:	93	lbs

LPG 17201 TMA

Weight of ice based on total radial S	SF area:	
Height (in):	14.0	
Width (in):	7.0	
Depth (in):	2.7	
Total weight of ice on object:		9 lbs
Weight of object:	19 lbs	
Combined weight of ice and object:		28 lbs

<u>S Tube 1x1x1/8</u>

Per foot weight of ice on object		1 plf	
Width (in):	1		
Height (in):	1		
Thickness (in):	0.125		
Weight of ice based on total rad	lial SF area:		

L 3x3x1/4

Per foot weight of ice on object:		4 plf	
Width (in):	3		
Height (in):	з		
Thickness (in):	0.25		
Weight of ice based on total radia	l SF area:		

2" pipe

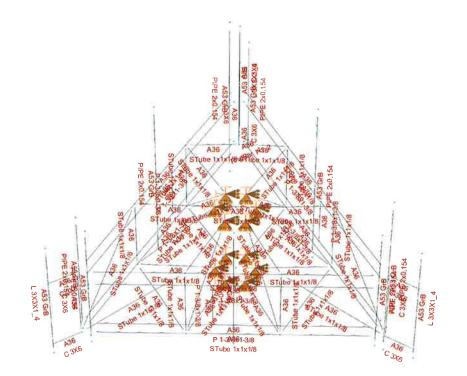
Per foot weight of ice:		
diameter (in):	2.38	
Per foot weight of ice on object:		3 lbs/ft



Mount Calculations (Existing Conditions) Current Date: 3/19/2018 6:05 PM Units system: English File name: W\STRUCTURAL DEPARTMENT\ANALYSIS SOFTWARE\RAM Elements\RAM Projects\AT&T\CT\CT2046\CT2046.etz\

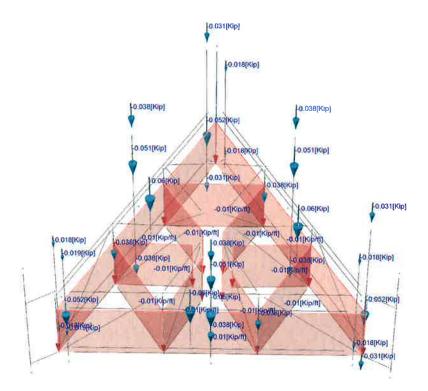


Current Date: 3/19/2018 6:05 PM Units system: English File name: W:\STRUCTURAL DEPARTMENT\ANALYSIS SOFTWARE\RAM Elements\RAM Projects\AT&T\CT\CT2046\CT2046.etz\



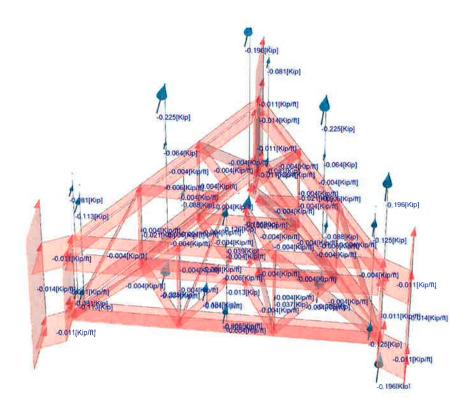
Current Date: 3/19/2018 6:05 PM Units system: English File name: W:\STRUCTURAL DEPARTMENT\ANALYSIS SOFTWARE\RAM Elements\RAM Projects\AT&T\CT\CT2046\CT2046.etz\ Load condition: DL=Dead Load





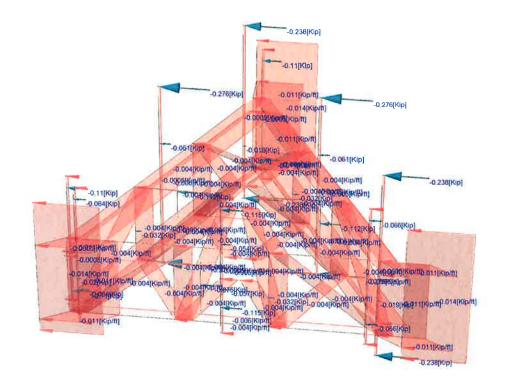
Current Date: 3/19/2018 6:06 PM Units system: English File name: W:\STRUCTURAL DEPARTMENT\ANALYSIS SOFTWARE\RAM Elements\RAM Projects\AT&T\CT\CT2046\CT2046.etz\ Load condition: W0=Wind Load 0/60deg





Current Date: 3/19/2018 6:06 PM Units system: English File name: W:\STRUCTURAL DEPARTMENT\ANALYSIS SOFTWARE\RAM Elements\RAM Projects\AT&T\CT\CT2046\CT2046.etz\ Load condition: W30=Wind Load 30/90deg

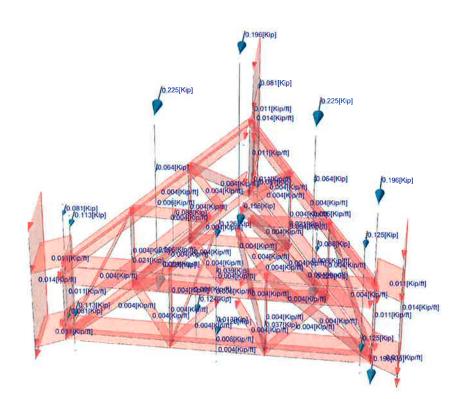
Loads



Current Date: 3/19/2018 6:06 PM Units system: English File name: W:\STRUCTURAL DEPARTMENT\ANALYSIS SOFTWARE\RAM Elements\RAM Projects\AT&T\CT\CT2046\CT2046.etz\ Load condition: W180=-W0

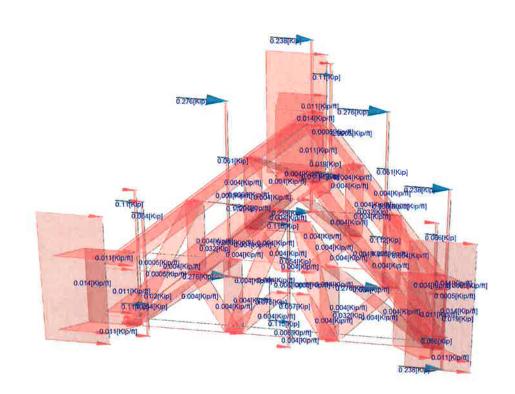


Distributed user loads - Members Concentrated user loads - Members



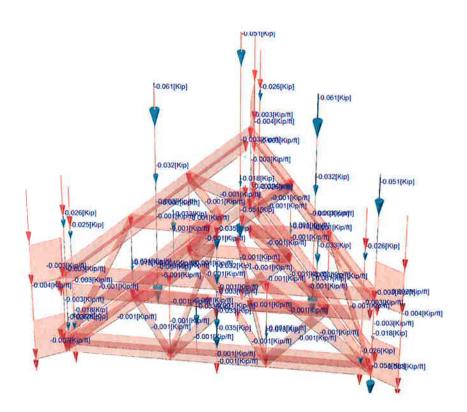
Current Date: 3/19/2018 6:06 PM Units system: English File name: W:\STRUCTURAL DEPARTMENT\ANALYSIS SOFTWARE\RAM Elements\RAM Projects\AT&T\CT\CT2046\CT2046.etz\ Load condition: W210=-W30

Loads



Current Date: 3/19/2018 6:06 PM Units system: English File name: W:\STRUCTURAL DEPARTMENT\ANALYSIS SOFTWARE\RAM Elements\RAM Projects\AT&T\CT\CT2046\CT2046.etz\ Load condition: Di=lce Load

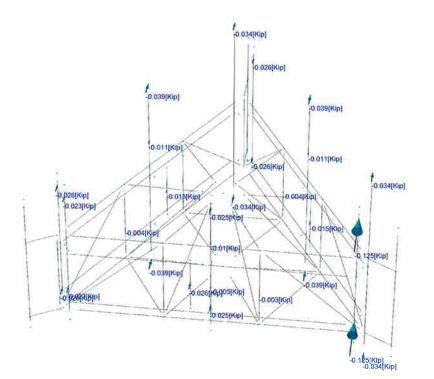


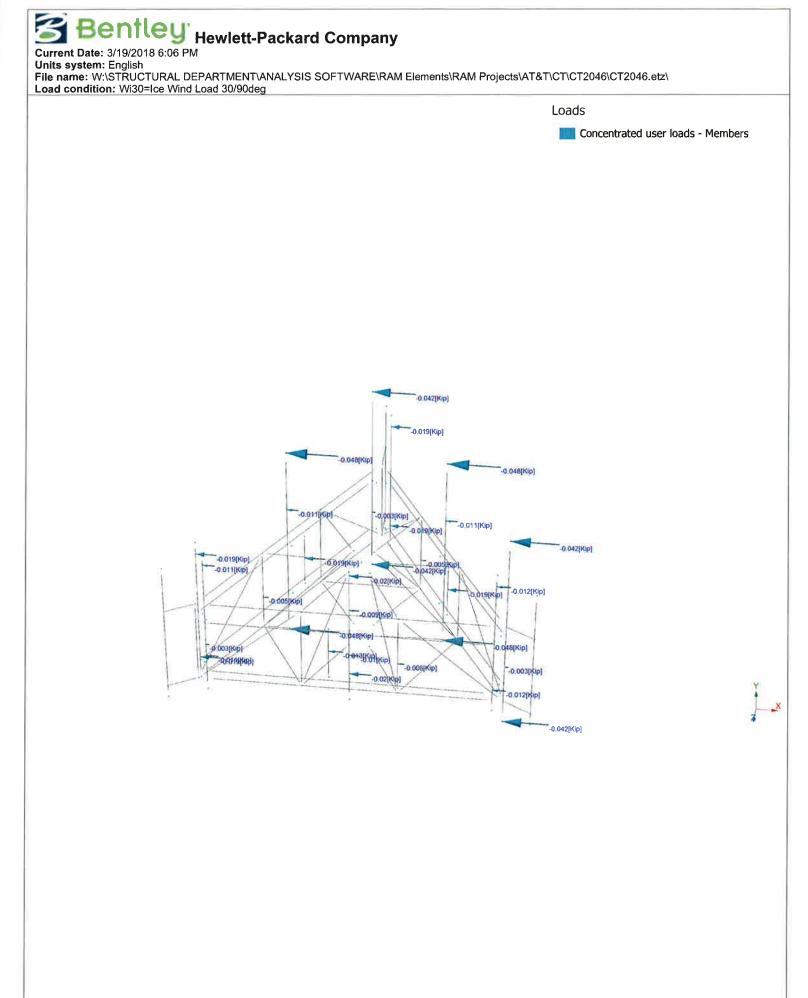


Current Date: 3/19/2018 6:06 PM Units system: English File name: W:\STRUCTURAL DEPARTMENT\ANALYSIS SOFTWARE\RAM Elements\RAM Projects\AT&T\CT\CT2046\CT2046.etz\ Load condition: Wi0=Ice Wind Load 0/60deg



Concentrated user loads - Members

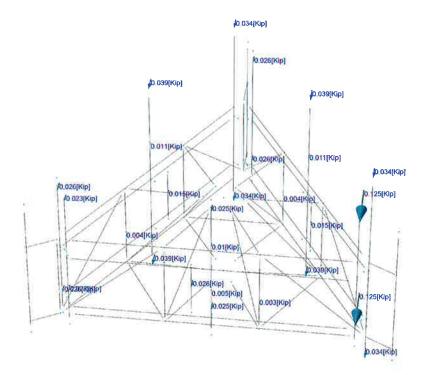




Current Date: 3/19/2018 6:06 PM Units system: English File name: W:\STRUCTURAL DEPARTMENT\ANALYSIS SOFTWARE\RAM Elements\RAM Projects\AT&T\CT\CT2046\CT2046.etz\ Load condition: Wi180=-Wi0



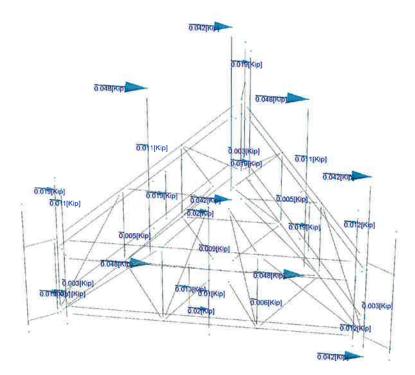
Concentrated user loads - Members



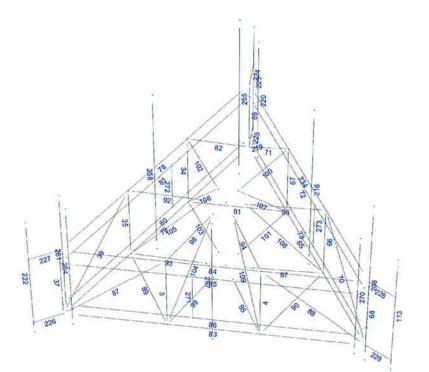
Current Date: 3/19/2018 6:06 PM Units system: English File name: W:\STRUCTURAL DEPARTMENT\ANALYSIS SOFTWARE\RAM Elements\RAM Projects\AT&T\CT\CT2046\CT2046.etz\ Load condition: Wi210=-Wi30

Loads

Concentrated user loads - Members

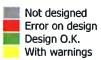


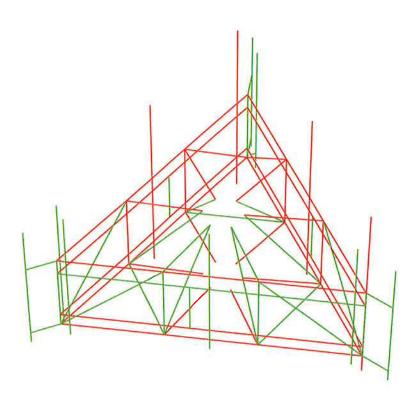
Current Date: 3/19/2018 6:06 PM Units system: English File name: W:\STRUCTURAL DEPARTMENT\ANALYSIS SOFTWARE\RAM Elements\RAM Projects\AT&T\CT\CT2046\CT2046.etz\



Current Date: 3/19/2018 6:07 PM Units system: English File name: W:\STRUCTURAL DEPARTMENT\ANALYSIS SOFTWARE\RAM Elements\RAM Projects\AT&T\CT\CT2046\CT2046.etz\

Design status





Bentley Hewlett-Packard Company

Current Date: 3/19/2018 6:07 PM Units system: English File name: W:\STRUCTURAL DEPARTMENT\ANALYSIS SOFTWARE\RAM Elements\RAM Projects\AT&T\CT\CT2046\CT2046.etz\

Steel Code Check

Report: Summary - For all selected load conditions

Load conditions to be included in design :

W180=-W0 W210=-W30 Wi180=-Wi0 Wi210=-Wi30 LC1=1.2DL+1.6W0 LC2=1.2DL+1.6W30 LC3=1.2DL-1.6W0 LC4=1.2DL-1.6W30 LC5=0.9DL+1.6W0 LC6=0.9DL+1.6W30 LC7=0.9DL-1.6W0 LC8=0.9DL-1.6W30 LC9=1.2DL+Di+Wi0 LC10=1.2DL+Di+Wi30 LC11=1.2DL+Di-Wi0 LC12=1.2DL+Di-Wi30 LC13=1.2DL LC14=0.9DL

Description	Section	Member	Ctrl Eq.	Ratio	Status	Reference
C 3 <i>X</i> 6	C 3X6	37	LC1 at 18.75%	0.35	OK	
			LC10 at 100.00%	0.04	OK	
			LC11 at 85.42%	0.05	OK	
			LC12 at 18.75%	0.05	OK	
			LC13 at 85.42%	0.03	OK	
			LC14 at 85.42%	0.02	OK	
			LC2 at 18.75%	0.33	OK	
			LC3 at 18.75%	0.34	OK	
			LC4 at 18.75%	0.35	ок	Eq. H1-1b
			LC5 at 18.75%	0.35	OK	
			LC6 at 18.75%	0.33	ок	
			LC7 at 18.75%	0.34	ОК	
			LC8 at 18.75%	0.35	ОК	
			LC9 at 18.75%	0.05	OK	
			W180 at 18.75%	0.21	ОК	
			W210 at 18.75%	0.21	OK	
			Wi180 at 18.75%	0.05	OK	
			Wi210 at 18.75%	0.03	ОК	
		68	LC1 at 81.25%	0.39	ок	
			LC10 at 81.25%	0.06	ОК	
			LC11 at 81.25%	0.10	ок	
			LC12 at 81.25%	0.06	ОК	
			LC13 at 14.58%	0.02	ок	
			LC14 at 14.58%	0.01	ОК	
			LC2 at 81.25%	0.55	ОК	
			LC3 at 81.25%	0.38	ОК	
			LC4 at 81.25%	0.55	ок	Eq. H1-1b
			LC5 at 81.25%	0.39	ОК	
			LC6 at 81.25%	0.55	OK	
			LC7 at 81.25%	0.38	ОК	
			Dage1			

LC8 at 81.25% LC9 at 81.25% W180 at 81.25% W210 at 81.25%	0.55 0.13 0.24 0.35	OK OK OK OK	
Wi180 at 81.25% Wi210 at 81.25%	0.12 0.06	OK OK	
LC1 at 18.75%	0.52	ОК	
LC10 at 85.42%	0.04	OK	
LC11 at 18.75%	0.08	OK	
LC12 at 85.42%	0.04	OK	
LC13 at 85.42%	0.03	OK	
LC14 at 85.42%	0.02	OK	
LC2 at 20.83%	0.22	OK	
LC3 at 18.75%	0.52	OK	Eq. H1-1b
LC4 at 20.83%	0.23	OK	Eq. H1-1b
LC5 at 18.75%	0.52	OK	
LC6 at 20.83%	0.22	OK	
LC7 at 18.75%	0.52	OK OK	
LC8 at 20.83% LC9 at 18.75%	0.23 0.07	OK	
W180 at 18.75%	0.32	OK	
W210 at 20.83%	0.02	OK	
Wi180 at 18.75%	0.07	OK	
Wi210 at 20.83%	0.02	OK	
LC1 at 0.00%	0.25	ок	Eq. H1-1b
LC10 at 0.00%	0.02	OK	
LC11 at 87.50%	0.02	OK	
LC12 at 0.00%	0.02	OK	
LC13 at 0.00%	0.02	OK	
LC14 at 0.00%	0.01	OK	
LC2 at 0.00%	0.06	OK	
LC3 at 0.00%	0.22	OK	
LC4 at 0.00%	0.04	OK	
LC5 at 0.00%	0.25	OK	
LC6 at 0.00% LC7 at 0.00%	0.05	OK	
LC8 at 0.00%	0.22 0.04	OK OK	
LC9 at 0.00%	0.04	OK	
W180 at 0.00%	0.00	OK	
W210 at 0.00%	0.03	OK	
Wi180 at 0.00%	0.03	OK	
Wi210 at 0.00%	0.00	OK	
LC1 at 0.00%	0.14	OK	
LC10 at 0.00%	0.02	OK	
LC11 at 0.00%	0.04	OK	
LC12 at 0.00%	0.02	OK	
LC13 at 0.00%	0.02	OK	
LC14 at 0.00%	0.01	OK	
LC2 at 0.00%	0.04	OK	
LC3 at 0.00%	0.18	OK	Eq. H1-1b
LC4 at 0.00%	0.04	OK	
LC5 at 0.00%	0.14	OK	
LC6 at 0.00%	0.03	OK	
LC7 at 0.00%	0.17	OK	
LC8 at 0.00% LC9 at 75.00%	0.04	OK OK	
W180 at 0.00%	0.01 0.10	OK	
W180 at 0.00%	0.10	OK	
	0.01	OK	
Wi180 at 0.00%			

226	LC1 at 0.00% LC10 at 100.00% LC11 at 100.00% LC12 at 0.00% LC13 at 0.00% LC2 at 0.00% LC2 at 0.00% LC3 at 0.00% LC5 at 0.00% LC5 at 0.00% LC6 at 0.00% LC8 at 0.00% W180 at 0.00% W180 at 0.00% W180 at 0.00%	0.14 0.01 0.03 0.02 0.01 0.12 0.10 0.16 0.13 0.13 0.13 0.13 0.15 0.03 0.08 0.09 0.02 0.01	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Eq. H1-1b
227	LC1 at 0.00% LC10 at 0.00% LC11 at 0.00% LC12 at 100.00% LC13 at 0.00% LC14 at 0.00% LC2 at 0.00% LC3 at 0.00% LC4 at 0.00% LC5 at 0.00% LC6 at 0.00% LC7 at 0.00% LC9 at 100.00% W180 at 0.00% Wi180 at 0.00%	0.15 0.04 0.02 0.02 0.01 0.21 0.18 0.15 0.21 0.18 0.15 0.21 0.18 0.12 0.02 0.10 0.12 0.02 0.02	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Eq. H1-1b
228	LC1 at 0.00% LC10 at 100.00% LC11 at 0.00% LC12 at 0.00% LC13 at 0.00% LC14 at 0.00% LC2 at 0.00% LC3 at 0.00% LC4 at 0.00% LC5 at 0.00% LC6 at 0.00% LC7 at 0.00% LC8 at 0.00% W180 at 0.00% Wi180 at 0.00% Wi1210 at 0.00%	0.11 0.02 0.04 0.02 0.01 0.19 0.15 0.23 0.12 0.20 0.14 0.22 0.02 0.08 0.13 0.02 0.02	ОК ОК ОС ОС ОС ОС ОС ОС ОС ОС ОС ОС ОС ОС ОС	Eq. H1-1b
229	LC1 at 0.00% LC10 at 0.00% LC11 at 0.00% LC12 at 0.00% LC13 at 0.00% LC14 at 0.00% LC2 at 0.00%	0.09 0.03 0.02 0.01 0.02 0.02 0.02 0.15	ок ок ок ок ок ок	Eq. H1-1b

LC3 at 0.00% LC4 at 0.00% LC5 at 0.00% LC6 at 0.00% LC7 at 0.00% LC8 at 0.00% W180 at 0.00% W210 at 0.00% Wi180 at 100.00% Wi210 at 0.00%	0.05 0.11 0.09 0.14 0.05 0.11 0.02 0.04 0.08 0.01 0.01	ОК ОК ОК ОК ОК ОК ОК	
LC1 at 66.67% LC10 at 10.42% LC11 at 66.67% LC12 at 66.67% LC13 at 10.42% LC14 at 10.42% LC2 at 10.42% LC3 at 66.67% LC4 at 66.67% LC5 at 66.67% LC6 at 10.42% LC7 at 66.67% LC9 at 10.42% W180 at 66.67% W210 at 10.42% W180 at 10.42%	0.04 0.01 0.01 0.01 0.03 0.03 0.04 0.03 0.05 0.03 0.04 0.02 0.02 0.02 0.03 0.01 0.00	ОК К К К К К К К К К К К К К К К К К К	Eq. H2-1 Eq. H3-8
LC1 at 66.67% LC10 at 66.67% LC11 at 66.67% LC12 at 10.42% LC13 at 10.42% LC14 at 10.42% LC2 at 66.67% LC3 at 66.67% LC4 at 10.42% LC5 at 66.67% LC6 at 66.67% LC7 at 66.67% LC8 at 10.42% W180 at 66.67% W180 at 66.67% W180 at 10.42%	0.05 0.01 0.01 0.01 0.01 0.01 0.05 0.05	ОК ОК ОК ОК ОК ОК ОК ОК ОК ОК ОК ОК ОК О	Eq. H2-1 Eq. H3-8 Eq. H2-1
LC1 at 66.67% LC10 at 66.67% LC11 at 10.42% LC12 at 10.42% LC13 at 10.42% LC14 at 10.42% LC2 at 66.67% LC3 at 10.42% LC4 at 66.67% LC5 at 10.42% LC6 at 66.67% LC7 at 10.42% LC8 at 66.67% LC9 at 66.67%	0.04 0.01 0.02 0.01 0.01 0.05 0.06 0.04 0.04 0.04 0.04 0.04 0.04 0.01	ок ок ок ок ок ок ок ок ок ок ок	Eq. H2-1 Eq. H3-8 Eq. H2-1

L 3X3X1_4

.

222

113

223

P 1-3/8x1-3/8

72

73

80

81

W180 at 10.42%	0.03	ОК	
W210 at 66.67%	0.03	OK	
Wi180 at 10.42%	0.01	OK	
Wi210 at 66.67%	0.00	ОК	
LC1 at 50.00%	1.89	N.G.	
LC10 at 50.00%	0.43	OK	
LC11 at 49.31%	0.35	OK	
LC12 at 49.31%	0.36	OK	
LC13 at 50.00%	0.13	OK	
LC14 at 50.00%	0.10	OK	
LC2 at 50.00%	2.12	N.G.	Sec. C5.2
LC3 at 49.31%	1.87	N.G.	Sec. C5.2
LC4 at 49.31%	1.75	N.G.	Sec. C5.2
LC5 at 50.00%	1.86	N.G.	
LC6 at 50.00% LC7 at 49.31%	2.09 1.85	N.G. N.G.	
LC8 at 49.31%	1.65	N.G.	
LC9 at 50.00%	0.44	OK	
W180 at 49.31%	1.11	N.G.	
W210 at 50.00%	1.04	N.G.	
Wi180 at 2.78%	0.20	OK	
Wi210 at 50.00%	0.18	ОК	
LC1 at 65.28%	1.41	N.G.	Sec. C5.2
LC10 at 43.06%	0.33	OK	
LC11 at 43.06%	0.46	OK	
LC12 at 43.06%	0.44	OK	
LC13 at 43.06%	0.24	OK	
LC14 at 43.06%	0.18	OK	
LC2 at 49.31%	0.53	OK	Sec. 05.0
LC3 at 43.06% LC4 at 34.72%	0.76	OK	Sec. C5.2 Sec. C5.2
LC5 at 65.28%	1.28 1.33	N.G. N.G.	Sec. C5.2
LC6 at 49.31%	0.51	OK	
LC7 at 43.06%	0.72	OK	
LC8 at 34.72%	1.17	N.G.	
LC9 at 50.00%	0.48	OK	
W180 at 2.78%	0.42	OK	
W210 at 49.31%	0.61	ОК	
Wi180 at 65.28%	0.11	OK	
Wi210 at 49.31%	0.09	ОК	
LC1 at 34.72%	0.98	OK	Sec. C5.2
LC10 at 50.00%	0.38	OK	
LC11 at 50.00%	0.33	OK	
LC12 at 43.06%	0.40	OK	
LC13 at 43.06%	0.23	OK	
LC14 at 43.06%	0.17	OK	Sec CE 2
LC2 at 2.78% LC3 at 50.00%	1.13 0.84	N.G. OK	Sec. C5.2 Sec. C5.2
LC3 at 50.00%	0.84	OK	Sec. C5.2 Sec. C5.2
LC5 at 34.72%	0.91	OK	000. 00.Z
LC6 at 2.78%	1.12	N.G.	
LC7 at 50.00%	0.81	OK	
LC8 at 43.06%	0.69	OK	
LC9 at 43.06%	0.44	OK	
W180 at 50.00%	0.45	OK	
W210 at 43.06%	0.36	ОК	
Wi180 at 50.00%	0.07	ОК	
Wi210 at 2.78%	0.06	OK	
LC1 at 50.00%	1.95	N.G.	Sec. C5.2
C10 at 50 69%	0.39	OK	

LC10 at 50.69%

0.39

ОК

LC11 at 50.69% LC12 at 50.00% LC13 at 43.06% LC14 at 43.06% LC2 at 50.69% LC3 at 50.69% LC4 at 50.00% LC5 at 50.00% LC6 at 50.69% LC7 at 50.69% LC8 at 50.00% W180 at 50.69% W210 at 50.00% Wi180 at 50.69%	0.41 0.42 0.14 0.10 1.94 2.03 2.15 1.92 1.92 2.00 2.12 0.41 1.10 1.17 0.20 0.21	OK OK OK N.G. N.G. N.G. N.G. N.G. OK OK OK	Sec. C5.2 Sec. C5.2 Sec. C5.2
LC1 at 50.00% LC10 at 49.31% LC11 at 50.00% LC12 at 50.00% LC13 at 50.00% LC14 at 50.00% LC2 at 49.31% LC3 at 50.00% LC4 at 50.00% LC5 at 50.00% LC6 at 49.31% LC7 at 50.00% LC8 at 50.00% W180 at 50.00% W180 at 50.00% W180 at 97.22% Wi210 at 50.00%	0.85 0.26 0.39 0.37 0.19 0.14 0.82 0.97 0.99 0.81 0.79 0.93 0.94 0.35 0.48 0.50 0.24 0.07	OK OK OK OK OK OK OK OK OK OK OK	Sec. C5.2 Sec. C5.2
LC1 at 43.06% LC10 at 43.06% LC11 at 50.00% LC12 at 50.00% LC13 at 50.00% LC14 at 50.00% LC2 at 43.06% LC3 at 94.44% LC4 at 50.00% LC5 at 43.06% LC6 at 43.06% LC7 at 94.44% LC8 at 50.00% W180 at 94.44% W210 at 50.00% Wi180 at 94.44%	0.37 0.41 0.49 0.46 0.26 0.20 0.70 1.08 1.07 0.33 0.63 1.05 0.99 0.31 0.54 0.48 0.19 0.07	ok ok ok ok ok n.g. ok ok ok ok ok ok ok ok	Sec. C5.2 Sec. C5.2
LC1 at 50.00% LC10 at 100.00% LC11 at 100.00% LC12 at 0.00% LC13 at 100.00% LC14 at 100.00% LC2 at 100.00% LC3 at 43.75% LC4 at 100.00%	0.34 0.20 0.15 0.13 0.11 0.08 0.52 0.33 0.29	ок ок ок ок ок ок ок	Sec. C5.2 Sec. C5.2 Sec. C5.2

	LC5 at 50.00% LC6 at 100.00% LC7 at 43.75% LC8 at 100.00% W180 at 50.00% W210 at 100.00% Wi180 at 50.00% Wi210 at 100.00%	0.34 0.49 0.32 0.31 0.18 0.20 0.25 0.04 0.04	ок ок ок ок ок ок	
272	LC1 at 100.00% LC10 at 0.00% LC11 at 0.00% LC12 at 100.00% LC13 at 100.00% LC14 at 100.00% LC2 at 43.75% LC3 at 0.00% LC4 at 100.00% LC5 at 100.00% LC6 at 43.75% LC7 at 0.00% LC8 at 100.00% W180 at 100.00% W180 at 100.00%	0.50 0.14 0.12 0.21 0.10 0.07 0.42 0.33 0.63 0.48 0.42 0.34 0.60 0.21 0.24 0.33 0.05 0.05	ок ок ок ок ок ок ок ок ок ок ок ок	Sec. C5.2
273	LC1 at 100.00% LC10 at 100.00% LC11 at 100.00% LC12 at 100.00% LC13 at 100.00% LC14 at 100.00% LC2 at 43.75% LC3 at 100.00% LC4 at 43.75% LC5 at 100.00% LC6 at 43.75% LC7 at 100.00% W180 at 100.00% W180 at 100.00% W210 at 43.75%	0.48 0.14 0.24 0.16 0.09 0.07 0.28 0.73 0.29 0.50 0.28 0.71 0.29 0.11 0.40 0.18 0.08 0.03	ок ок ок ок ок ок ок ок ок ок ок ок ок о	Sec. C5.2
208	LC1 at 50.00% LC10 at 50.00% LC11 at 50.00% LC12 at 50.00% LC13 at 77.08% LC2 at 50.00% LC3 at 50.00% LC4 at 50.00% LC5 at 50.00% LC6 at 50.00% LC7 at 50.00% LC8 at 50.00% W180 at 50.00% W210 at 50.00%	1.38 0.19 0.15 0.19 0.02 0.01 1.68 1.38 1.68 1.38 1.68 1.38 1.68 1.38 1.68 1.38 1.68 1.38 1.68 1.38 1.68 1.38 1.68 0.15 0.86 1.05	N.G. OK OK OK OK N.G. N.G. N.G. N.G. N.G. OK OK N.G.	Eq. H1-1b

PIPE 2x0.154

20

Page7

	Wi180 at 50.00%	0.15	OK	
	Wi210 at 50.00%	0.18	OK	
040	1.04 -4 50 000/	4 75	N.O.	
216	LC1 at 50.00%	1.75	N.G.	
	LC10 at 50.00%	0.24	OK	
	LC11 at 50.00%	0.20	OK	
	LC12 at 50.00%	0.24	OK	
	LC13 at 50.00%	0.01	OK OK	
	LC14 at 50.00%	0.01		
	LC2 at 50.00% LC3 at 50.00%	2.11 1.75	N.G. N.G.	Eq. H1-1b
	LC4 at 50.00%		N.G.	
	LC5 at 50.00%	2.11	N.G.	
		1.75		
	LC6 at 50.00% LC7 at 50.00%	2.11 1.75	N.G. N.G.	
	LC8 at 50.00%		N.G.	
	LC9 at 50.00%	2.11	OK	
	W180 at 50.00%	0.20	N.G.	
	W180 at 50.00%	1.09	N.G.	
	Wi180 at 50.00%	1.32 0.19	OK	
	Wi210 at 50.00%		OK	
	WIZ TO at 50.00%	0.23	UK .	
220	LC1 at 50.00%	0.36	OK	
220	LC10 at 50.00%	0.05	OK	
	LC11 at 50.00%	0.03	OK	
	LC12 at 50.00%	0.05	OK	
	LC13 at 85.42%	0.03	OK	
	LC13 at 85.42%	0.01	OK	
	LC2 at 50.00%	0.49	OK	Eq. H1-1b
	LC3 at 50.00%	0.36	OK	Eq. 111-10
	LC4 at 50.00%	0.49	OK	
	LC5 at 50.00%	0.36	OK	
	LC6 at 50.00%	0.49	OK	
	LC7 at 50.00%	0.45	OK	
	LC8 at 50.00%	0.30	OK	
	LC9 at 50.00%	0.43	OK	
	W180 at 50.00%	0.22	OK	
	W210 at 50.00%	0.22	OK	
	Wi180 at 50.00%	0.07	OK	
	Wi210 at 50.00%	0.05	OK	
		0.00		
255	LC1 at 50.00%	1.38	N.G.	
	LC10 at 50.00%	0.19	OK	
	LC11 at 50.00%	0.15	OK	
	LC12 at 50.00%	0.19	OK	
	LC13 at 77.08%	0.01	OK	Eq. H1-2
	LC14 at 77.08%	0.01	OK	
	LC2 at 50.00%	1.68	N.G.	Eg. H1-1b
	LC3 at 50.00%	1.38	N.G.	
	LC4 at 50.00%	1.68	N.G.	
	LC5 at 50.00%	1.38	N.G.	
	LC6 at 50.00%	1.68	N.G.	
	LC7 at 50.00%	1.38	N.G.	
	LC8 at 50.00%	1.68	N.G.	
	LC9 at 50.00%	0.15	OK	
	W180 at 50.00%	0.86	OK	
	W210 at 50.00%	1.05	N.G.	
	Wi180 at 50.00%	0.15	OK	
	Wi210 at 50.00%	0.18	OK	
258	LC1 at 50.00%	1.75	N.G.	
	LC10 at 50.00%	0.24	OK	
	LC11 at 50.00%	0.20	OK	
	LC12 at 50.00%	0.24	OK	

LC13 at 50.00% LC14 at 50.00% LC2 at 50.00% LC3 at 50.00% LC4 at 50.00% LC5 at 50.00% LC6 at 50.00% LC7 at 50.00% LC8 at 50.00% W180 at 50.00% W180 at 50.00% W180 at 50.00% W180 at 50.00%	0.01 0.01 2.11 1.75 2.11 1.75 2.11 1.75 2.11 0.20 1.09 1.32 0.19 0.23	OK OK N.G. N.G. N.G. N.G. N.G. OK N.G. OK	Eq. H1-1b
LC1 at 50.00% LC10 at 50.00% LC11 at 50.00% LC12 at 50.00% LC13 at 85.42% LC14 at 85.42% LC2 at 50.00% LC3 at 50.00% LC4 at 50.00% LC5 at 50.00% LC6 at 50.00% LC7 at 50.00% V180 at 50.00% W180 at 50.00% W180 at 50.00%	0.36 0.05 0.07 0.05 0.01 0.00 0.49 0.36 0.49 0.36 0.49 0.36 0.49 0.36 0.49 0.36 0.49 0.36 0.49 0.07 0.22 0.30 0.07	0K 0K 0K 0K 0K 0K 0K 0K 0K 0K 0K 0K 0K 0	Eq. H1-1b
LC1 at 52.08% LC10 at 50.00% LC11 at 52.08% LC12 at 50.00% LC13 at 85.42% LC14 at 85.42% LC2 at 50.00% LC3 at 52.08% LC4 at 50.00% LC5 at 52.08% LC6 at 50.00% LC7 at 52.08% W180 at 52.08% W180 at 52.08% W180 at 52.08%	0.37 0.02 0.05 0.02 0.01 0.21 0.21 0.37 0.21 0.37 0.21 0.37 0.21 0.37 0.21 0.05 0.23 0.13 0.05 0.02	ок ок ок ок ок ок ок ок ок ок ок ок	Eq. H1-1b Eq. H1-1b
LC1 at 52.08% LC10 at 50.00% LC11 at 52.08% LC12 at 50.00% LC13 at 85.42% LC14 at 85.42% LC2 at 50.00% LC3 at 52.08% LC4 at 50.00% LC5 at 52.08% LC6 at 50.00%	0.47 0.05 0.08 0.05 0.01 0.01 0.45 0.48 0.45 0.47 0.44	ок ок ок ок ок ок ок ок	Eq. H1-1b

		LC7 at 52.08%	0.48	OK	
		LC8 at 50.00%	0.44	OK	
		LC9 at 50.00%	0.06	OK	
		W180 at 52.08%	0.30	OK	
		W210 at 50.00%	0.28	OK	
		Wi180 at 52.08%	0.06	ОК	
		Wi210 at 50.00%	0.05	ОК	
	270	LC1 at 52.08%	0.43	OK	
		LC10 at 50.00%	0.03	OK	
		LC11 at 52.08%	0.27	OK	
		LC12 at 50.00%	0.03	OK	
		LC13 at 85.42%	0.02	OK	
		LC14 at 85.42%	0.01	OK	
		LC2 at 50.00%	0.22	OK	
		LC3 at 52.08%	0.44	OK	Eq. H1-1b
		LC4 at 50.00%	0.22	OK	
		LC5 at 52.08%	0.43	OK	Eq. H1-1b
		LC6 at 50.00%	0.22	OK	
		LC7 at 52.08%	0.44	OK	
		LC8 at 50.00%	0.22	OK	
		LC9 at 52.08%	0.26	OK	
		W180 at 52.08%	0.27	OK	
		W210 at 50.00%	0.13	OK	
		Wi180 at 52.08%	0.26	OK	
		Wi210 at 50.00%	0.02	OK	
Dec 10	040			01/	
RndBar 1-1_2	219	LC1 at 0.00%	0.07	OK	Eq. H3-1
		LC10 at 0.00%	0.02	OK	
		LC11 at 0.00%	0.02	OK	
		LC12 at 0.00%	0.02	OK	
		LC13 at 0.00%	0.01	OK	
		LC14 at 0.00%	0.01	OK	
		LC2 at 0.00%	0.04	OK	
		LC3 at 0.00%	0.05	OK	
		LC4 at 0.00%	0.05	OK	
		LC5 at 0.00%	0.07	OK	
		LC6 at 0.00%	0.04	OK	
		LC7 at 0.00%	0.05	OK	
		LC8 at 0.00%	0.05	OK	
		LC9 at 0.00%	0.02	ОК	
		W180 at 0.00%	0.04	ОК	
		W210 at 0.00%	0.02	OK	
		Wi180 at 0.00%	0.01	OK	
		Wi210 at 0.00%	0.00	OK	
STube 1x1x1/8	3	LC1 at 20.83%	0.72	OK	Eq. H1-1b
		LC10 at 85.42%	0.29	OK	
		LC11 at 85.42%	0.30	OK	
		LC12 at 85.42%	0.21	OK	
		LC13 at 85.42%	0.13	OK	
		LC14 at 85.42%	0.10	OK	
		LC2 at 85.42%	0.60	OK	Eq. H1-1b
		LC3 at 18.75%	0.83	ок	Eq. H1-1a
		LC4 at 85.42%	0.40	OK	
		LC5 at 20.83%	0.70	OK	
		LC6 at 85.42%	0.56	OK	
		LC7 at 20.83%	0.81	OK	
		LC8 at 85.42%	0.42	OK	
		LC9 at 85.42%	0.19	OK	
		W180 at 20.83%	0.46	OK	
		W210 at 85.42%	0.30	OK	
		Wi180 at 20.83%	0.08	OK	
		Wi210 at 85.42%	0.04	OK	

LC1 at 20.83%	0.69	ОК	Eq. H1-1b
LC10 at 85.42%	0.12	OK	Eq. H1-1b
LC11 at 18.75%	0.23	OK	Eq. 111 15
LC12 at 85.42%	0.26	OK	
LC13 at 85.42%	0.11	OK	
LC14 at 85.42%	0.08	OK	
LC2 at 85.42%	0.53	OK	
LC3 at 100.00%	0.81	ОК	Eq. H1-1a
LC4 at 85.42%	0.70	OK	Eq. H1-1b
LC5 at 20.83%	0.68	ОК	
LC6 at 85.42%	0.55	OK	
LC7 at 20.83%	0.80	OK	
LC8 at 85.42%	0.67	OK	
LC9 at 85.42%	0.22	OK	
W180 at 20.83%	0.45	OK	
W210 at 85.42%	0.37	OK	
Wi180 at 100.00%	0.13	OK	
Wi210 at 85.42%	0.05	ОК	
LC1 at 18.75%	0.77	ОК	
LC10 at 18.75%	0.27	OK	
LC11 at 85.42%	0.21	OK	
LC12 at 85.42%	0.28	OK	
LC12 at 85.42%	0.28	OK	
LC14 at 85.42%	0.09	OK	F 110.0
LC2 at 18.75%	1.53	N.G.	Eq. H3-6
LC3 at 18.75%	0.62	OK	
LC4 at 18.75%	1.17	N.G.	
LC5 at 18.75%	0.75	OK	
LC6 at 18.75%	1.50	N.G.	
LC7 at 18.75%	0.63	OK	
LC8 at 18.75%	1.20	N.G.	
LC9 at 85.42%	0.32	OK	
W180 at 18.75%	0.42	OK	
W210 at 18.75%	0.60	OK	
Wi180 at 18.75%	0.08	OK	
140040 -140 750/		OK	
Wi210 at 18.75%	0.10		
LC1 at 20.83%	0.74	ОК	Eq. H1-1a
******	*******	OK OK	Eq. H1-1a
LC1 at 20.83%	0.74		Eq. H1-1a
LC1 at 20.83% LC10 at 85.42% LC11 at 85.42%	0.74 0.23 0.22	OK OK	Eq. H1-1a
LC1 at 20.83% LC10 at 85.42% LC11 at 85.42% LC12 at 85.42%	0.74 0.23 0.22 0.16	ok ok ok	Eq. H1-1a
LC1 at 20.83% LC10 at 85.42% LC11 at 85.42% LC12 at 85.42% LC12 at 85.42% LC13 at 85.42%	0.74 0.23 0.22 0.16 0.09	ok ok ok ok	Eq. H1-1a
LC1 at 20.83% LC10 at 85.42% LC11 at 85.42% LC12 at 85.42% LC13 at 85.42% LC13 at 85.42% LC14 at 85.42%	0.74 0.23 0.22 0.16 0.09 0.07	OK OK OK OK	
LC1 at 20.83% LC10 at 85.42% LC11 at 85.42% LC12 at 85.42% LC13 at 85.42% LC14 at 85.42% LC14 at 85.42% LC2 at 18.75%	0.74 0.23 0.22 0.16 0.09 0.07 1.15	ok ok ok ok ok n.g .	Eq. H1-1b
LC1 at 20.83% LC10 at 85.42% LC11 at 85.42% LC12 at 85.42% LC13 at 85.42% LC14 at 85.42% LC2 at 18.75% LC3 at 20.83%	0.74 0.23 0.22 0.16 0.09 0.07 1.15 0.69	ok ok ok ok ok n.g . ok	
LC1 at 20.83% LC10 at 85.42% LC11 at 85.42% LC12 at 85.42% LC13 at 85.42% LC14 at 85.42% LC2 at 18.75% LC3 at 20.83% LC4 at 18.75%	0.74 0.23 0.22 0.16 0.09 0.07 1.15 0.69 1.00	ок ок ок ок ок ок ок	Eq. H1-1b
LC1 at 20.83% LC10 at 85.42% LC11 at 85.42% LC12 at 85.42% LC13 at 85.42% LC14 at 85.42% LC2 at 18.75% LC3 at 20.83% LC4 at 18.75% LC5 at 20.83%	0.74 0.23 0.22 0.16 0.09 0.07 1.15 0.69	ок ок ок ок ок ок ок ок	Eq. H1-1b
LC1 at 20.83% LC10 at 85.42% LC11 at 85.42% LC12 at 85.42% LC13 at 85.42% LC14 at 85.42% LC2 at 18.75% LC3 at 20.83% LC4 at 18.75%	0.74 0.23 0.22 0.16 0.09 0.07 1.15 0.69 1.00	ок ок ок ок ок ок ок	Eq. H1-1b
LC1 at 20.83% LC10 at 85.42% LC11 at 85.42% LC12 at 85.42% LC13 at 85.42% LC14 at 85.42% LC2 at 18.75% LC3 at 20.83% LC4 at 18.75% LC5 at 20.83%	0.74 0.23 0.22 0.16 0.09 0.07 1.15 0.69 1.00 0.74	ок ок ок ок ок ок ок ок	Eq. H1-1b
LC1 at 20.83% LC10 at 85.42% LC11 at 85.42% LC12 at 85.42% LC13 at 85.42% LC14 at 85.42% LC2 at 18.75% LC3 at 20.83% LC4 at 18.75% LC5 at 20.83% LC6 at 18.75%	0.74 0.23 0.22 0.16 0.09 0.07 1.15 0.69 1.00 0.74 1.13	ok ok ok ok ok ok ok ok ok	Eq. H1-1b
LC1 at 20.83% LC10 at 85.42% LC11 at 85.42% LC12 at 85.42% LC13 at 85.42% LC14 at 85.42% LC2 at 18.75% LC3 at 20.83% LC4 at 18.75% LC5 at 20.83% LC6 at 18.75% LC7 at 20.83%	0.74 0.23 0.22 0.16 0.09 0.07 1.15 0.69 1.00 0.74 1.13 0.68 1.01	ok ok ok ok ok ok ok ok ok ok ok	Eq. H1-1b
LC1 at 20.83% LC10 at 85.42% LC11 at 85.42% LC12 at 85.42% LC13 at 85.42% LC14 at 85.42% LC2 at 18.75% LC3 at 20.83% LC4 at 18.75% LC5 at 20.83% LC6 at 18.75% LC7 at 20.83% LC8 at 18.75%	0.74 0.23 0.22 0.16 0.09 0.07 1.15 0.69 1.00 0.74 1.13 0.68 1.01 0.16	ok ok ok ok ok ok ok ok n.g. ok	Eq. H1-1b
LC1 at 20.83% LC10 at 85.42% LC11 at 85.42% LC12 at 85.42% LC13 at 85.42% LC14 at 85.42% LC2 at 18.75% LC3 at 20.83% LC4 at 18.75% LC5 at 20.83% LC6 at 18.75% LC7 at 20.83% LC8 at 18.75% LC9 at 85.42% W180 at 20.83%	0.74 0.23 0.22 0.16 0.09 0.07 1.15 0.69 1.00 0.74 1.13 0.68 1.01 0.16 0.41	ok ok ok ok ok ok ok ok ok ok	Eq. H1-1b
LC1 at 20.83% LC10 at 85.42% LC11 at 85.42% LC12 at 85.42% LC13 at 85.42% LC14 at 85.42% LC2 at 18.75% LC3 at 20.83% LC4 at 18.75% LC5 at 20.83% LC6 at 18.75% LC7 at 20.83% LC8 at 18.75%	0.74 0.23 0.22 0.16 0.09 0.07 1.15 0.69 1.00 0.74 1.13 0.68 1.01 0.16 0.41 0.66	ок ок ок ок ок ок ок ок ок ок ок	Eq. H1-1b
LC1 at 20.83% LC10 at 85.42% LC11 at 85.42% LC12 at 85.42% LC13 at 85.42% LC14 at 85.42% LC2 at 18.75% LC3 at 20.83% LC4 at 18.75% LC5 at 20.83% LC6 at 18.75% LC7 at 20.83% LC8 at 18.75% LC9 at 85.42% W180 at 20.83%	0.74 0.23 0.22 0.16 0.09 0.07 1.15 0.69 1.00 0.74 1.13 0.68 1.01 0.16 0.41	ок ок ок ок ок ок ок ок ок ок ок	Eq. H1-1b
LC1 at 20.83% LC10 at 85.42% LC11 at 85.42% LC12 at 85.42% LC13 at 85.42% LC14 at 85.42% LC2 at 18.75% LC3 at 20.83% LC4 at 18.75% LC5 at 20.83% LC6 at 18.75% LC7 at 20.83% W180 at 20.83% W210 at 18.75% W180 at 20.83%	0.74 0.23 0.22 0.16 0.09 0.07 1.15 0.69 1.00 0.74 1.13 0.68 1.01 0.16 0.41 0.66 0.07 0.11	ок ок ок ок ок ок ок ок ок ок ок ок	Eq. H1-1b Eq. H1-1b
LC1 at 20.83% LC10 at 85.42% LC11 at 85.42% LC12 at 85.42% LC13 at 85.42% LC14 at 85.42% LC2 at 18.75% LC3 at 20.83% LC4 at 18.75% LC5 at 20.83% LC6 at 18.75% LC7 at 20.83% W180 at 20.83% W210 at 18.75% W180 at 20.83% W210 at 18.75%	0.74 0.23 0.22 0.16 0.09 0.07 1.15 0.69 1.00 0.74 1.13 0.68 1.01 0.16 0.41 0.66 0.07 0.11	ок ок ок ок ок ок ок ок ок ок ок ок	Eq. H1-1b
LC1 at 20.83% LC10 at 85.42% LC11 at 85.42% LC12 at 85.42% LC13 at 85.42% LC13 at 85.42% LC2 at 18.75% LC3 at 20.83% LC4 at 18.75% LC5 at 20.83% LC6 at 18.75% LC7 at 20.83% W180 at 20.83% W210 at 18.75% W180 at 20.83% W1210 at 18.75% LC1 at 20.83%	0.74 0.23 0.22 0.16 0.09 0.07 1.15 0.69 1.00 0.74 1.13 0.68 1.01 0.16 0.41 0.66 0.07 0.11	ок ок ок ок ок ок ок ок ок ок ок ок	Eq. H1-1b Eq. H1-1b
LC1 at 20.83% LC10 at 85.42% LC11 at 85.42% LC12 at 85.42% LC13 at 85.42% LC14 at 85.42% LC2 at 18.75% LC3 at 20.83% LC4 at 18.75% LC5 at 20.83% LC6 at 18.75% LC7 at 20.83% W180 at 20.83% W210 at 18.75% W180 at 20.83% W210 at 18.75%	0.74 0.23 0.22 0.16 0.09 0.07 1.15 0.69 1.00 0.74 1.13 0.68 1.01 0.16 0.41 0.66 0.07 0.11	ок ок ок ок ок ок ок ок ок ок ок ок	Eq. H1-1b Eq. H1-1b
LC1 at 20.83% LC10 at 85.42% LC11 at 85.42% LC12 at 85.42% LC13 at 85.42% LC13 at 85.42% LC2 at 18.75% LC3 at 20.83% LC4 at 18.75% LC5 at 20.83% LC6 at 18.75% LC7 at 20.83% W180 at 20.83% W210 at 18.75% W180 at 20.83% W1210 at 18.75% LC1 at 20.83%	0.74 0.23 0.22 0.16 0.09 0.07 1.15 0.69 1.00 0.74 1.13 0.68 1.01 0.16 0.41 0.66 0.07 0.11	ок ок ок ок ок ок ок ок ок ок ок ок ок	Eq. H1-1b Eq. H1-1b
LC1 at 20.83% LC10 at 85.42% LC11 at 85.42% LC12 at 85.42% LC13 at 85.42% LC14 at 85.42% LC2 at 18.75% LC3 at 20.83% LC4 at 18.75% LC5 at 20.83% LC6 at 18.75% LC7 at 20.83% W180 at 20.83% W210 at 18.75% W180 at 20.83% W210 at 18.75% LC1 at 20.83% LC1 at 20.83% LC1 at 20.83%	0.74 0.23 0.22 0.16 0.09 0.07 1.15 0.69 1.00 0.74 1.13 0.68 1.01 0.16 0.41 0.66 0.07 0.11 0.39 0.07 0.06	ок ок ок ок ок ок ок ок ок ок ок ок ок	Eq. H1-1b Eq. H1-1b

LC2 at 0.00%	0.46	ОК	Eq. H1-1b
LC3 at 20.83%	0.93	OK	
LC4 at 0.00%	0.71	OK	
LC5 at 20.83%	0.39	OK	
LC6 at 0.00%	0.46	OK	
LC7 at 20.83%	0.96	OK	Eq. H1-1a
LC8 at 0.00%	0.73	OK	
LC9 at 85.42%	0.07	OK	
W180 at 20.83%	0.64	OK	
W210 at 0.00%	0.50	OK	
Wi180 at 20.83%	0.12	OK	
Wi210 at 0.00%	0.04	OK	Eq. H1-1b
LC1 at 66.67% LC10 at 35.42%	3.19 0.58	N.G.	Eq. H1-1a
LC10 at 35.42 %	0.58 0.63	With warnings With warnings	
LC12 at 64.58%	1.10	N.G.	Eq. H1-1a
LC12 at 35.42%	0.59	With warnings	сч. П - Та
LC13 at 35.42%	0.33	With warnings	
LC2 at 66.67%	0.44	With warnings	
LC3 at 33.33%	1.53	N.G.	
LC3 at 53.55%	1.55 4.11	N.G.	Eq. H1-1a
LC5 at 66.67%	3.11	N.G.	Lq. 111-1a
LC6 at 35.42%	0.39	With warnings	
LC7 at 33.33%	1.45	N.G.	
LC8 at 64.58%	3.96	N.G.	
LC9 at 35.42%	1.10	N.G.	
W180 at 33.33%	0.76	With warnings	
W210 at 35.42%	2.21	N.G.	
Wi180 at 0.00%	0.14	With warnings	
Wi210 at 35.42%	0.28	With warnings	
LC1 at 100.00%	0.80	ОК	
LC10 at 85.42%	0.22	ОК	
LC11 at 85.42%	0.30	OK	
LC12 at 85.42%	0.28	OK	
LC13 at 85.42%	0.12	OK	Eq. H1-1b
LC14 at 85.42%	0.09	OK	
LC2 at 18.75%	0.88	OK	
LC3 at 20.83%	0.63	ОК	
LC4 at 18.75%	1.08	N.G.	Eq. H1-1b
LC5 at 100.00%	0.77	OK	
LC6 at 18.75%	0.90	OK	
LC7 at 20.83%	0.62	OK	
LC8 at 18.75%	1.06	N.G.	
LC9 at 100.00%	0.25	OK	
W180 at 100.00%	0.37	OK	
W210 at 18.75%	0.62	OK	
Wi180 at 100.00%	0.11	OK	
Wi210 at 18.75%	0.10	OK	************************
LC1 at 18.75%	0.71	OK	
LC10 at 85.42%	0.19	OK	
LC11 at 100.00%	0.13	OK	Eq. H1-1b
LC12 at 85.42%	0.22	OK	
LC13 at 85.42%	0.10	OK	Eq. H1-1b
LC14 at 85.42%	0.07	OK	
LC2 at 0.00%	1.08	N.G. OK	
LC3 at 18.75%	0.62		Ea H2 6
LC4 at 0.00%	1.24	N.G. OK	Eq. H3-6
LC5 at 18.75% LC6 at 0.00%	0.69	N.G.	
LC7 at 18.75%	1.08 0.63	N.G. OK	Eq. H3-6
LC8 at 0.00%	1.23	N.G.	
200 at 0.00 /0	1.20	N.U.	

LC9 at 85.42%	0.29	ОК	
W180 at 18.75%	0.41	OK	
W210 at 20.83%	0.65	OK	
Wi180 at 85.42%	0.08	ОК	
Wi210 at 20.83%	0.10	ОК	
LC1 at 79.17%	0.40	ОК	Eq. H1-1a
LC10 at 81.25%	0.08	OK	
LC11 at 81.25%	0.06	OK	
LC12 at 14.58%	0.09	OK	
LC13 at 81.25%	0.05	OK	
LC14 at 81.25%	0.04	OK	
LC2 at 100.00%	0.66	OK	
LC3 at 79.17%	0.89	OK	
LC4 at 100.00%	0.48	OK	Eq. H1-1b
LC5 at 79.17%	0.39	OK	
LC6 at 100.00%	0.69	OK	-
LC7 at 79.17%	0.93	OK	Eq. H1-1a
LC8 at 100.00%	0.47	OK	
LC9 at 100.00%	0.12	OK	
W180 at 79.17%	0.65	OK	
W210 at 100.00%	0.29	OK	
Wi180 at 16.67%	0.14	OK	
Wi210 at 100.00%	0.04	OK	
LC1 at 0.00%	0.31	OK	
LC10 at 18.75%	0.06	OK	
LC11 at 0.00%	0.09	OK	
LC12 at 0.00%	0.08	OK	
LC13 at 18.75%	0.04	OK	
LC14 at 18.75%	0.03	OK	
LC2 at 20.83%	1.11	N.G.	
LC3 at 0.00%	0.31	OK	
LC4 at 0.00%	0.54	OK	Eq. H1-1a
LC5 at 0.00%	0.31	OK	
LC6 at 20.83% LC7 at 0.00%	1.14	N.G. OK	Eq. H1-1a
LC8 at 0.00%	0.31 0.53	OK	
LC9 at 0.00%		OK	
W180 at 0.00%	0.10 0.19	OK	
W180 at 0.00%	0.19	OK	
Wi180 at 0.00%	0.27	OK	
Wi210 at 0.00%	0.07	OK	
	_0.04		
LC1 at 100.00% LC10 at 0.00%	2.17 0.26	N.G. With warnings	
LC10 at 0.00%	0.28	With warnings	
LC12 at 66.67%	0.14	With warnings	
LC12 at 85.67%	0.04	With warnings	
LC13 at 35.42%	0.02	With warnings	
LC14 at 35.42 %	2.41	N.G.	Eg. H1-1a
LC3 at 0.00%	1.21	N.G.	Ly. 111-1a
LC4 at 64.58%	0.54	With warnings	
LC5 at 100.00%	2.18	N.G.	Eq. H1-1a
LC6 at 0.00%	2.18	N.G.	ш <u>ч</u> , ттт-та
LC7 at 0.00%	1.20	N.G.	
LC8 at 64.58%	0.63	With warnings	Eq. H1-1a
LC9 at 66.67%	0.83	With warnings	Ly. 111-1a
W180 at 33.33%	0.15	With warnings	
W180 at 53.55% W210 at 64.58%	0.74	With warnings	
Wi180 at 35.42%	0.57	With warnings	
Wi210 at 35.42%	0.05	With warnings	
LC1 at 66.67%	3.32	N.G.	Eq. H1-1a

LC10 at 64 59%	1.06	N.G.	
LC10 at 64.58%			Eq. H1-1a
LC11 at 64.58%	0.53	With warnings	
LC12 at 35.42%	0.46	With warnings	
LC13 at 64.58%	0.56	With warnings	
LC14 at 64.58%	0.42	With warnings	
LC2 at 64.58%	4.46	N.G.	Eq. H1-1a
LC3 at 33.33%	1.32	N.G.	
LC4 at 35.42%	0.41	With warnings	Eq. H1-1b
LC5 at 66.67%	3.25	N.G.	
LC6 at 64.58%	4.32	N.G.	
LC7 at 33.33%	1.25	N.G.	
LC8 at 35.42%	0.40	With warnings	
LC9 at 35.42%	1.03	N.G.	
W180 at 33.33%	0.64	With warnings	
W210 at 35.42%	0.23	With warnings	
Wi180 at 0.00%	0.23	With warnings	
Wi210 at 35.42%	0.03	With warnings	
VVI210 at 33.4276	0.03	with warnings	****
LC1 at 85.42%	0.37	OK	
LC10 at 0.00%	0.10	OK	
LC11 at 18.75%	0.07	OK	
LC12 at 85.42%	0.06	OK	
LC13 at 85.42%	0.04	OK	
LC14 at 85.42%	0.03	OK	
LC2 at 0.00%	0.62	OK	Eq. H1-1a
LC3 at 85.42%	0.30	OK	Eq. III Id
LC4 at 0.00%	1.14	N.G.	
LC5 at 85.42%	0.38	OK	
LC6 at 0.00%	0.61	OK	
LC7 at 85.42%	0.30	OK	
LC8 at 0.00%	1.17	N.G.	Eq. H1-1a
LC9 at 0.00%	0.10	OK	
W180 at 85.42%	0.20	OK	
W210 at 0.00%	0.80	OK	
Wi180 at 0.00%	0.06	OK	
Wi210 at 20.83%	0.09	ОК	
LC1 at 64.58%	0.25	With warnings	••••••••
LC10 at 35.42%	0.23	•	
		With warnings	E. 114.4-
LC11 at 64.58%	1.16	N.G.	Eq. H1-1a
LC12 at 64.58%	0.73	With warnings	
LC13 at 64.58%	0.54	With warnings	
LC14 at 64.58%	0.40	With warnings	
LC2 at 66.67%	2.59	N.G.	Eq. H1-1a
LC3 at 64.58%	4.41	N.G.	Eq. H1-1a
LC4 at 33.33%	2.31	N.G.	Eq. H1-1a
LC5 at 64.58%	0.24	With warnings	
LC6 at 66.67%	2.53	N.G.	
LC7 at 64.58%			
	4.28	N.G.	
	4.28 2.25	N.G. N.G	
LC8 at 33.33%	2.25	N.G.	
LC8 at 33.33% LC9 at 64.58%	<mark>2.25</mark> 0.32	N.G. With warnings	
LC8 at 33.33% LC9 at 64.58% W180 at 64.58%	2.25 0.32 2.42	N.G. With warnings N.G.	
LC8 at 33.33% LC9 at 64.58% W180 at 64.58% W210 at 33.33%	2.25 0.32 2.42 1.27	N.G. With warnings N.G. N.G.	
LC8 at 33.33% LC9 at 64.58% W180 at 64.58% W210 at 33.33% Wi180 at 64.58%	2.25 0.32 2.42 1.27 0.47	N.G. With warnings N.G. N.G. With warnings	
LC8 at 33.33% LC9 at 64.58% W180 at 64.58% W210 at 33.33% Wi180 at 64.58%	2.25 0.32 2.42 1.27	N.G. With warnings N.G. N.G.	
LC8 at 33.33% LC9 at 64.58% W180 at 64.58% W210 at 33.33% Wi180 at 64.58% Wi210 at 0.00%	2.25 0.32 2.42 1.27 0.47 0.15	N.G. With warnings N.G. N.G. With warnings With warnings	
LC8 at 33.33% LC9 at 64.58% W180 at 64.58% W210 at 33.33% Wi180 at 64.58% Wi210 at 0.00%	2.25 0.32 2.42 1.27 0.47 0.15	N.G. With warnings N.G. N.G. With warnings With warnings	
LC8 at 33.33% LC9 at 64.58% W180 at 64.58% W210 at 33.33% Wi180 at 64.58% Wi210 at 0.00% LC1 at 64.58% LC10 at 66.67%	2.25 0.32 2.42 1.27 0.47 0.15 1.43 0.06	N.G. With warnings N.G. With warnings With warnings N.G. With warnings	
LC8 at 33.33% LC9 at 64.58% W180 at 64.58% W210 at 33.33% Wi180 at 64.58% Wi210 at 0.00% LC1 at 64.58% LC10 at 66.67% LC11 at 66.67%	2.25 0.32 2.42 1.27 0.47 0.15 1.43 0.06 0.10	N.G. With warnings N.G. With warnings With warnings N.G. With warnings With warnings	
LC8 at 33.33% LC9 at 64.58% W180 at 64.58% W210 at 33.33% W180 at 64.58% W1210 at 0.00% LC1 at 64.58% LC10 at 66.67% LC11 at 66.67% LC12 at 0.00%	2.25 0.32 2.42 1.27 0.47 0.15 1.43 0.06 0.10 0.14	N.G. With warnings N.G. With warnings With warnings N.G. With warnings With warnings With warnings	
LC8 at 33.33% LC9 at 64.58% W180 at 64.58% W210 at 33.33% Wi180 at 64.58% Wi210 at 0.00% LC1 at 64.58% LC10 at 66.67% LC11 at 66.67% LC12 at 0.00% LC13 at 64.58%	2.25 0.32 2.42 1.27 0.47 0.15 1.43 0.06 0.10 0.14 0.02	N.G. With warnings N.G. With warnings With warnings N.G. With warnings With warnings With warnings With warnings	
LC8 at 33.33% LC9 at 64.58% W180 at 64.58% W210 at 33.33% Wi180 at 64.58% Wi210 at 0.00% LC1 at 64.58% LC10 at 66.67% LC11 at 66.67% LC12 at 0.00% LC13 at 64.58% LC14 at 64.58%	2.25 0.32 2.42 1.27 0.47 0.15 	N.G. With warnings N.G. With warnings With warnings N.G. With warnings With warnings With warnings With warnings With warnings	
LC8 at 33.33% LC9 at 64.58% W180 at 64.58% W210 at 33.33% Wi180 at 64.58% Wi210 at 0.00% LC1 at 64.58% LC10 at 66.67% LC11 at 66.67% LC12 at 0.00% LC13 at 64.58% LC14 at 64.58% LC14 at 64.58% LC2 at 100.00%	2.25 0.32 2.42 1.27 0.47 0.15 1.43 0.06 0.10 0.14 0.02	N.G. With warnings N.G. With warnings With warnings N.G. With warnings With warnings With warnings With warnings	

LC4 at 0.00% LC5 at 64.58% LC6 at 100.00% LC7 at 100.00% LC8 at 0.00% LC9 at 64.58% W180 at 100.00% W210 at 0.00% Wi180 at 66.67% Wi210 at 0.00%	1.53 1.52 1.87 0.95 1.52 0.07 0.63 0.94 0.19 0.11	N.G. N.G. With warnings N.G. With warnings With warnings With warnings With warnings With warnings	Eq. H1-1a Eq. H1-1a Eq. H1-1a
LC1 at 18.75%	0.95	OK	*********
LC10 at 18.75%	0.07	OK	
LC11 at 85.42%	0.10	OK	
LC12 at 18.75%	0.07	OK	
LC13 at 18.75%	0.05	OK	
LC14 at 18.75%	0.04	OK	
LC2 at 100.00%	0.49	OK	
LC3 at 0.00% LC4 at 18.75%	0.43 0.25	OK OK	Eq. H1-1a
LC5 at 18.75%	0.25	OK	Eq. H1-1a
LC6 at 100.00%	0.50	OK	Lq. 111-1a
LC7 at 0.00%	0.42	OK	
LC8 at 18.75%	0.24	OK	
LC9 at 0.00%	0.06	OK	
W180 at 18.75%	0.21	OK	
W210 at 18.75%	0.14	OK	
Wi180 at 0.00%	0.07	OK	
Wi210 at 18.75%	0.02	OK	
LC1 at 20.83%	0.04	ок ОК	***************************************
LC10 at 18.75%	0.94 0.06	OK	
LC11 at 0.00%	0.00	OK	
LC12 at 0.00%	0.06	OK	
LC13 at 18.75%	0.04	OK	
LC14 at 18.75%	0.03	OK	
LC2 at 0.00%	0.24	OK	
LC3 at 18.75%	0.42	OK	Eq. H1-1a
LC4 at 100.00%	0.56	OK	
LC5 at 20.83%	0.96	OK	Eq. H1-1a
LC6 at 0.00%	0.24	OK	
LC7 at 18.75%	0.42	OK	
LC8 at 100.00%	0.58	OK	
LC9 at 18.75%	0.05	OK	
W180 at 18.75%	0.20 0.39	OK	
W210 at 0.00% Wi180 at 20.83%	0.39	OK OK	
Wi210 at 20.83%	0.04	OK	
LC1 at 100.00%	0.30	OK	
LC10 at 100.00%	0.11	OK	
LC11 at 0.00%	0.12	OK	
LC12 at 0.00%	0.08	OK	
LC13 at 0.00% LC14 at 0.00%	0.07 0.06	OK OK	
LC2 at 100.00%	0.76	OK	Eq. H1-1a
LC3 at 0.00%	0.51	OK	-4
LC4 at 0.00%	0.38	OK	Eg. H1-1b
LC5 at 100.00%	0.29	OK	
LC6 at 100.00%	0.74	OK	
LC7 at 0.00%	0.49	ОК	
LC8 at 0.00%	0.37	ОК	
LC9 at 100.00%	0.11	OK	
W180 at 100.00%	0.16	OK	Eq. H1-1b

W210 at 100.00%	0.25	ок	
Wi180 at 100.00%	0.07	OK	
Wi210 at 100.00%	0.03	OK	
LC1 at 100.00%	0.30	ОК	
LC10 at 0.00%	0.08	OK	
LC11 at 0.00%	0.11	OK	Eq. H1-1b
LC12 at 100.00%	0.12	OK	Eq. H1-1b
LC13 at 100.00%	0.07	OK	
LC14 at 100.00%	0.06	OK	
LC2 at 0.00%	0.40	OK	Eq. H1-1b
LC3 at 0.00%	0.52	OK	-
LC4 at 100.00%	0.80	ок	Eg. H1-1a
LC5 at 100.00%	0.29	OK	
LC6 at 0.00%	0.39	OK	
LC7 at 0.00%	0.49	OK	
LC8 at 100.00%	0.77	OK	
LC9 at 100.00%	0.11	OK	
W180 at 0.00%	0.21	OK	
W210 at 100.00%	0.44	OK	
Wi180 at 0.00%	0.07	OK	
Wi210 at 100.00%	0.07	OK	
LC1 at 0.00%	0.64	ОК	Eq. H1-1a
LC10 at 100.00%	0.10	ОК	•
LC11 at 100.00%	0.11	OK	
LC12 at 0.00%	0.10	OK	
LC13 at 100.00%	0.08	OK	
LC14 at 100.00%	0.06	OK	
LC2 at 100.00%	0.41	OK	
LC3 at 0.00%	0.24	OK	
LC4 at 0.00%	0.24	OK	
LC5 at 0.00%	0.44	OK	
LC6 at 100.00%		OK	
	0.40		
LC7 at 0.00%	0.23	OK	
LC8 at 0.00%	0.42	OK	
LC9 at 0.00%	0.12	OK	Eq. H1-2
W180 at 0.00%	0.13	OK	
W210 at 0.00%	0.23	OK	
Wi180 at 100.00%	0.06	OK	
Wi210 at 0.00%	0.03	OK	
LC1 at 0.00%	0.33	OK	
LC10 at 0.00%	0.14	OK	
LC11 at 0.00%	0.21	OK	
LC12 at 0.00%	0.11	OK	
LC13 at 0.00%	0.01	OK	
LC14 at 0.00%	0.01	OK	
LC2 at 0.00%	1.42	N.G.	Eq. H1-1b
LC3 at 0.00%	0.31	OK	
LC4 at 0.00%	1.43	N.G.	
LC5 at 0.00%	0.33	OK	
LC6 at 0.00%	1.42	N.G.	
LC7 at 0.00%	0.32	OK	
LC8 at 0.00%	1.43	N.G.	Eq. H1-1b
LC9 at 0.00%	0.23	OK	
W180 at 0.00%	0.20	OK	
W210 at 0.00%	0.20	OK	
Wi180 at 0.00%	0.90	OK	
Wi210 at 0.00%	0.21	OK	
LC1 at 0.00%	0.67	OK	
LC10 at 0.00%	0.16	OK	
LC10 at 0.00%	0.10	OK	
LOTT at 0.00 /0	0.29	UN	

LC12 at 0.00%	0.19	ОК	
LC13 at 0.00%	0.07	OK	Eq. H1-1b
LC14 at 0.00%	0.05	OK	
LC2 at 0.00%	1.10	N.G.	
LC3 at 0.00%	0.51	OK	
LC4 at 0.00%	1.27	N.G.	Eg. H1-1b
LC5 at 0.00%	0.65	OK	-4
LC6 at 0.00%	1.11	N.G.	
LC7 at 0.00%	0.50	OK	
LC8 at 0.00%	1.25	N.G.	
LC9 at 0.00%	0.32	OK	
W180 at 0.00%	0.29	OK	
W210 at 0.00%	0.75	OK	
Wi180 at 0.00%	0.23	OK	
Wi210 at 0.00%		OK	
vviz 10 at 0.00 /8	0.10	UN	
LC1 at 100.00%	0.69	ОК	Eq. H1-1b
LC10 at 0.00%		OK	24.111.15
	0.09		
LC11 at 0.00%	0.27	OK	
LC12 at 0.00%	0.09	OK	
LC13 at 0.00%	0.02	OK	
LC14 at 0.00%	0.01	OK	
LC2 at 0.00%	0.82	OK	
LC3 at 0.00%	0.69	OK	
LC4 at 0.00%	0.84	OK	Eq. H1-1b
LC5 at 100.00%	0.69	OK	
LC6 at 0.00%	0.82	OK	
LC7 at 0.00%	0.69	OK	
LC8 at 0.00%	0.83	OK	
LC9 at 0.00%	0.24	ОК	
W180 at 100.00%	0.42	OK	
W210 at 0.00%	0.52	OK	
Wi180 at 0.00%	0.26	OK	
Wi210 at 0.00%	0.07	OK	
01 -1 0 000/	о сс	<u></u>	***************************************
LC1 at 0.00%	0.55	OK	
LC10 at 0.00%	0.19	OK	
LC11 at 0.00%	0.31	OK	
LC12 at 0.00%	0.17	OK	
LC13 at 0.00%	0.08	OK	Eq. H1-1b
LC14 at 0.00%	0.06	ОК	
LC2 at 0.00%	1.28	N.G.	Eq. H1-1a
LC3 at 0.00%	0.44	OK	Equinitia
LC4 at 0.00%	1.09	N.G.	Eq. H1-1b
LC5 at 0.00%	0.53	OK	
LC6 at 0.00%	1.26	N.G.	
LC7 at 0.00%	0.45	OK	
	1.08	N.G.	
LC8 at 0.00%	1.00		
LC9 at 0.00%	0.31	ОК	
LC9 at 0.00% W180 at 0.00%	0.31 0.30	OK OK	
LC9 at 0.00% W180 at 0.00% W210 at 0.00%	0.31 0.30 0.69	OK OK OK	
LC9 at 0.00% W180 at 0.00%	0.31 0.30	OK OK OK OK	
LC9 at 0.00% W180 at 0.00% W210 at 0.00%	0.31 0.30 0.69	OK OK OK	
LC9 at 0.00% W180 at 0.00% W210 at 0.00% W180 at 0.00% W210 at 0.00%	0.31 0.30 0.69 0.23 0.10	OK OK OK OK	
LC9 at 0.00% W180 at 0.00% W210 at 0.00% W180 at 0.00% W1210 at 0.00%	0.31 0.30 0.69 0.23 0.10 0.76	ОК ОК ОК ОК ОК	
LC9 at 0.00% W180 at 0.00% W210 at 0.00% W180 at 0.00% W210 at 0.00%	0.31 0.30 0.69 0.23 0.10	OK OK OK OK	
LC9 at 0.00% W180 at 0.00% W210 at 0.00% W180 at 0.00% W1210 at 0.00%	0.31 0.30 0.69 0.23 0.10 0.76	ОК ОК ОК ОК ОК	
LC9 at 0.00% W180 at 0.00% W210 at 0.00% W180 at 0.00% W210 at 0.00% LC1 at 0.00% LC10 at 100.00%	0.31 0.30 0.69 0.23 0.10 0.76 0.76 0.11 0.25	ок ок ок ок ок ок	
LC9 at 0.00% W180 at 0.00% W210 at 0.00% Wi180 at 0.00% Wi210 at 0.00% LC1 at 0.00% LC10 at 100.00% LC11 at 0.00% LC12 at 0.00%	0.31 0.30 0.69 0.23 0.10 0.76 0.11 0.25 0.15	ок ок ок ок ок ок ок	
LC9 at 0.00% W180 at 0.00% W210 at 0.00% Wi180 at 0.00% Wi210 at 0.00% LC1 at 0.00% LC10 at 100.00% LC11 at 0.00% LC12 at 0.00% LC13 at 0.00%	0.31 0.30 0.69 0.23 0.10 0.76 0.11 0.25 0.15 0.02	ок ок ок ок ок ок ок ок	
LC9 at 0.00% W180 at 0.00% W210 at 0.00% Wi180 at 0.00% Wi210 at 0.00% LC1 at 0.00% LC10 at 100.00% LC11 at 0.00% LC12 at 0.00% LC13 at 0.00% LC14 at 0.00%	0.31 0.30 0.69 0.23 0.10 0.76 0.11 0.25 0.15 0.02 0.01	ОК ОК ОК ОК ОК ОК ОК ОК	
LC9 at 0.00% W180 at 0.00% W210 at 0.00% Wi180 at 0.00% Wi210 at 0.00% LC1 at 0.00% LC1 at 0.00% LC1 at 0.00% LC12 at 0.00% LC13 at 0.00% LC14 at 0.00% LC2 at 0.00%	0.31 0.30 0.69 0.23 0.10 0.76 0.11 0.25 0.15 0.02 0.01 1.47	ок ок ок ок ок ок ок ок ок ок ок ок ок о	
LC9 at 0.00% W180 at 0.00% W210 at 0.00% Wi180 at 0.00% Wi210 at 0.00% LC1 at 0.00% LC1 at 0.00% LC1 at 0.00% LC12 at 0.00% LC13 at 0.00% LC2 at 0.00% LC3 at 0.00%	0.31 0.30 0.69 0.23 0.10 0.76 0.11 0.25 0.15 0.02 0.01	ок ок ок ок ок ок ок ок ок ок	
LC9 at 0.00% W180 at 0.00% W210 at 0.00% Wi180 at 0.00% Wi210 at 0.00% LC1 at 0.00% LC1 at 0.00% LC1 at 0.00% LC12 at 0.00% LC13 at 0.00% LC14 at 0.00% LC2 at 0.00%	0.31 0.30 0.69 0.23 0.10 0.76 0.11 0.25 0.15 0.02 0.01 1.47	ок ок ок ок ок ок ок ок ок ок ок ок ок о	Еq. H1-1b

LC6 at 0.00%	1.48	N.G.	Eq. H1-1b
LC7 at 0.00%	0.74	OK	
LC8 at 0.00%	1.47	N.G.	
LC9 at 0.00%	0.29	ОК	
W180 at 0.00%	0.47	OK	
W210 at 0.00%	0.91	ОК	
Wi180 at 0.00%	0.27	OK	
Wi210 at 0.00%	0.13	ОК	
LC1 at 100.00%	0.77	OK	***************************************
LC10 at 100.00%	0.21	ОК	
LC11 at 100.00%	0.31	OK	
LC12 at 100.00%	0.18	OK	
LC13 at 100.00%	0.08	OK	Eq. H1-1b
LC14 at 100.00%	0.06	OK	
_C2 at 100.00%	1.29	N.G.	Eq. H1-1a
_C3 at 100.00%	0.56	OK	
_C4 at 100.00%	1.12	N.G.	
_C5 at 100.00%	0.74	OK	
_C6 at 100.00%	1.27	N.G.	
_C7 at 100.00%	0.55	OK	
LC8 at 100.00%	1.13	N.G.	
LC9 at 100.00%	0.35	OK	
W180 at 100.00%	0.33	OK	
W210 at 100.00%	0.74	OK	
Wi180 at 100.00%	0.24	OK	
Wi210 at 100.00%	0.10	OK	
LC1 at 0.00%	0.71	ок	Eq. H1-1b
_C10 at 100.00%	0.10	OK	
_C11 at 100.00%	0.27	OK	
.C12 at 100.00%	0.08	OK	
_C13 at 100.00%	0.02	OK	
_C14 at 100.00% _C2 at 100.00%	0.01	ок ок	
_C3 at 100.00%	0.85 0.68	OK	Eq. H1-1b
_C4 at 100.00%	0.82	OK	
_C5 at 0.00%	0.71	OK	
C6 at 100.00%	0.84	OK	
_C7 at 0.00%	0.68	OK	Eq. H1-1b
_C8 at 100.00%	0.82	OK	
_C9 at 100.00%	0.24	OK	2
W180 at 0.00%	0.43	OK	
N210 at 100.00%	0.52	OK	
Wi180 at 100.00%	0.26	OK	
Wi210 at 100.00%	0.07	OK	
_C1 at 0.00%	0.56	OK	***************************************
_C10 at 0.00%	0.17	ОК	
_C11 at 0.00%	0.32	ОК	
_C12 at 0.00%	0.20	ОК	
_C13 at 0.00%	0.08	OK	Eq. H1-1b
_C14 at 0.00%	0.06	OK	
_C2 at 0.00%	1.08	N.G.	
.C3 at 0.00%	0.43	OK	
.C4 at 0.00%	1.30	N.G.	Eq. H1-1a
_C5 at 0.00%	0.54	OK	
_C6 at 0.00%	1.07	N.G.	
_C7 at 0.00%	0.44	OK	
-C8 at 0.00%	1.27	N,G.	
_C9 at 0.00%	0.33	OK	
W180 at 0.00%	0.30	OK	
N210 at 0.00%	0.73	OK	
Wi180 at 0.00%	0.23	OK	

Wi210 at 0.00%	0.10	ОК	
LC1 at 0.00%	0.78	ОК	
LC10 at 100.00%	0.11	OK	
LC11 at 0.00%	0.26	OK	
LC12 at 0.00%	0.15	OK	
LC13 at 0.00%	0.01	OK	
LC14 at 0.00%	0.01	OK	
LC2 at 0.00%	1.47	N.G.	
LC3 at 0.00%	0.76	OK	
LC4 at 0.00%	1.48	N.G.	Eq. H1-1b
LC5 at 0.00%	0.77	OK	
LC6 at 0.00%	= 1.47	N.G.	Eq. H1-1b
LC7 at 0.00%	0.77	OK	
LC8 at 0.00%	1.47	N.G.	
LC9 at 0.00%	0.29	OK	
W180 at 0.00%	0.49	OK	
W210 at 0.00%	0.91	OK	
Wi180 at 0.00%	0.27	OK	
Wi210 at 0.00%	0.13	0K	
LC1 at 0.00%	0.50	OK	
LC10 at 0.00%	0.18	OK	
LC11 at 0.00%	0.34	OK	
LC12 at 0.00%	0.18	OK OK	
LC13 at 0.00% LC14 at 0.00%	0.08 0.06	OK	Eq. H1-1b
LC2 at 0.00%	0.08 1.19	N.G.	Eq. H1-1b
LC3 at 0.00%	0.79	OK	ц. П-Ю
LC4 at 0.00%	1.14	N.G.	
LC5 at 0.00%	0.52	OK	
LC6 at 0.00%	1.18	N.G.	
LC7 at 0.00%	0.77	OK	
LC8 at 0.00%	1.15	N.G.	
LC9 at 0.00%	0.29	OK	
W180 at 0.00%	0.39	OK	
W210 at 0.00%	0.74	OK	
Wi180 at 0.00%	0.25	OK	
Wi210 at 0.00%	0.10	OK	
LC1 at 100.00%	0.44	ОК	***************************************
LC10 at 0.00%	0.14	OK	
LC11 at 0.00%	0.21	ОК	
LC12 at 100.00%	0.11	ОК	
LC13 at 0.00%	0.01	ОК	
LC14 at 0.00%		ОК	
LO 14 al 0.0070	0.01	UN	
LC2 at 0.00%	0.01 1.46	N.G.	Eq. H1-1b
			Eq. H1-1b
LC2 at 0.00%	1.46	N.G.	Eq. H1-1b
LC2 at 0.00% LC3 at 100.00%	1.46 0.46	N.G. OK	Eq. H1-1b
LC2 at 0.00% LC3 at 100.00% LC4 at 0.00%	1.46 0.46 1.45	N.G. OK N.G.	Eq. H1-1b
LC2 at 0.00% LC3 at 100.00% LC4 at 0.00% LC5 at 100.00%	1.46 0.46 1.45 0.44	N.G. OK N.G. OK	Eq. H1-1b
LC2 at 0.00% LC3 at 100.00% LC4 at 0.00% LC5 at 100.00% LC6 at 0.00%	1.46 0.46 1.45 0.44 1.45	N.G. OK N.G. OK N.G.	Eq. H1-1b Eq. H1-1b
LC2 at 0.00% LC3 at 100.00% LC4 at 0.00% LC5 at 100.00% LC6 at 0.00% LC7 at 100.00%	1.46 0.46 1.45 0.44 1.45 0.46	N.G. OK N.G. OK OK	
LC2 at 0.00% LC3 at 100.00% LC4 at 0.00% LC5 at 100.00% LC6 at 0.00% LC7 at 100.00% LC8 at 0.00%	1.46 0.46 1.45 0.44 1.45 0.46 1.46	N.G. OK N.G. OK N.G. N.G.	
LC2 at 0.00% LC3 at 100.00% LC4 at 0.00% LC5 at 100.00% LC6 at 0.00% LC7 at 100.00% LC8 at 0.00% LC9 at 0.00%	1.46 0.46 1.45 0.44 1.45 0.46 1.46 0.24	N.G. OK N.G. OK N.G. OK N.G. OK	
LC2 at 0.00% LC3 at 100.00% LC4 at 0.00% LC5 at 100.00% LC6 at 0.00% LC7 at 100.00% LC8 at 0.00% LC9 at 0.00% W180 at 100.00%	1.46 0.46 1.45 0.44 1.45 0.46 1.46 0.24 0.29	N.G. OK N.G. OK OK OK OK	
LC2 at 0.00% LC3 at 100.00% LC4 at 0.00% LC5 at 100.00% LC5 at 0.00% LC7 at 100.00% LC8 at 0.00% LC9 at 0.00% W180 at 100.00%	1.46 0.46 1.45 0.44 1.45 0.46 1.46 0.24 0.29 0.92	N.G. OK N.G. OK N.G. OK OK OK	
LC2 at 0.00% LC3 at 100.00% LC4 at 0.00% LC5 at 100.00% LC6 at 0.00% LC7 at 100.00% LC8 at 0.00% W180 at 100.00% W210 at 0.00% W1180 at 0.00%	1.46 0.46 1.45 0.44 1.45 0.46 1.46 0.24 0.29 0.92 0.92	N.G. OK N.G. OK N.G. OK OK OK	
LC2 at 0.00% LC3 at 100.00% LC4 at 0.00% LC5 at 100.00% LC6 at 0.00% LC7 at 100.00% LC7 at 0.00% W180 at 100.00% W210 at 0.00% W180 at 0.00%	1.46 0.46 1.45 0.44 1.45 0.46 1.46 0.24 0.29 0.92 0.92 0.22 0.13	N.G. OK N.G. OK N.G. OK OK OK OK	
LC2 at 0.00% LC3 at 100.00% LC4 at 0.00% LC5 at 100.00% LC6 at 0.00% LC7 at 100.00% LC7 at 0.00% W180 at 100.00% W180 at 0.00% W180 at 0.00% W1210 at 0.00%	1.46 0.46 1.45 0.44 1.45 0.46 1.46 0.24 0.29 0.92 0.92 0.22 0.13	N.G. OK N.G. OK N.G. OK OK OK OK	
LC2 at 0.00% LC3 at 100.00% LC4 at 0.00% LC5 at 100.00% LC6 at 0.00% LC7 at 100.00% LC7 at 0.00% W180 at 100.00% W180 at 100.00% W180 at 0.00% W1210 at 0.00% LC1 at 0.00%	1.46 0.46 1.45 0.44 1.45 0.46 1.46 0.24 0.29 0.92 0.92 0.22 0.13	N.G. OK N.G. OK N.G. OK OK OK OK OK	

Page19

LC14 at 0.00%	0.06	OK	
LC2 at 0.00%	1.15	N.G.	Eq. H1-1b
LC3 at 0.00%	0.77	OK	
LC4 at 0.00%	1.17	N.G.	Eq. H1-1b
LC5 at 0.00%	0.49	OK	
LC6 at 0.00%	1.14	N.G.	
LC7 at 0.00%	0.74	OK	
LC8 at 0.00%	1.16	N.G.	
LC9 at 0.00%	0.30	OK	
W180 at 0.00%	0.37	ок	
W210 at 0.00%		OK	
	0.71		
Wi180 at 0.00%	0.24	OK	
Wi210 at 0.00%	0.09	OK	
LC1 at 0.00%	0.51	ок	***************************************
LC10 at 0.00%	0.10	OK	
LC11 at 0.00%	0.18	OK	
LC12 at 0.00%	0.12	OK	
LC13 at 0.00%	0.08	OK	
LC14 at 0.00%	0.06	OK	
LC2 at 0.00%	0.40	OK	
LC3 at 0.00%	0.44	OK	
LC4 at 0.00%	0.47	OK	Eq. H1-1b
LC5 at 0.00%	0.57	OK	Eq. H1-1a
LC6 at 0.00%	0.39	ок	
LC7 at 0.00%		OK	
	0.42		
LC8 at 0.00%	0.45	OK	
LC9 at 0.00%	0.15	OK	
W180 at 0.00%	0.19	OK	
W210 at 0.00%	0.26	ОК	
		OK	
Wi180 at 0.00%	0.11		
Wi210 at 0.00%	0.04	OK	
LC1 at 12.50%	0.19	ОК	
LC10 at 0.00%	0.11	OK	
LC11 at 0.00%	0.14	OK	
LC12 at 0.00%	0.09	OK	
LC13 at 0.00%	0.06	ОК	
LC14 at 0.00%	0.05	OK	
LC2 at 0.00%	0.60	OK	Eg. H1-1b
		OK	Eq. (1) ib
LC3 at 0.00%	0.20		
LC4 at 0.00%	0.70	OK	
LC5 at 18.75%	0.18	OK	
LC6 at 0.00%	0.60	OK	
LC7 at 0.00%	0.32	ОК	
LC8 at 0.00%	0.75	OK	Eg. H1-1a
			Eq. 11-1a
LC9 at 0.00%	0.16	OK	
W180 at 12.50%	0.29	OK	
W210 at 0.00%	0.55	OK	
Wi180 at 0.00%	0.11	OK	
Wi210 at 0.00%	0.06	OK	****
LC1 at 0.00%	0.25	ОК	
		OK	
LC10 at 0 00%	0.12		
	0.12	<u> </u>	
LC11 at 0.00%	0.17	OK	
LC11 at 0.00%		OK OK	
LC11 at 0.00% LC12 at 0.00%	0.17 0.11	ОК	
LC11 at 0.00% LC12 at 0.00% LC13 at 0.00%	0.17 0.11 0.07	ОК ОК	
LC11 at 0.00% LC12 at 0.00% LC13 at 0.00% LC14 at 0.00%	0.17 0.11 0.07 0.05	OK OK OK	F -1444
LC11 at 0.00% LC12 at 0.00% LC13 at 0.00% LC14 at 0.00%	0.17 0.11 0.07 0.05 0.70	OK OK OK	Eq. H1-1a
LC12 at 0.00% LC13 at 0.00% LC14 at 0.00%	0.17 0.11 0.07 0.05	OK OK OK	Eq. H1-1a
LC11 at 0.00% LC12 at 0.00% LC13 at 0.00% LC14 at 0.00% LC2 at 0.00% LC3 at 0.00%	0.17 0.11 0.07 0.05 0.70 0.23	ОК ОК ОК ОК	Eq. H1-1a
LC11 at 0.00% LC12 at 0.00% LC13 at 0.00% LC14 at 0.00% LC2 at 0.00% LC3 at 0.00% LC4 at 0.00%	0.17 0.11 0.07 0.05 0.70 0.23 0.80	ок ок ок ок ок	Eq. H1-1a
LC11 at 0.00% LC12 at 0.00% LC13 at 0.00% LC14 at 0.00% LC2 at 0.00% LC3 at 0.00% LC4 at 0.00% LC5 at 0.00%	0.17 0.11 0.07 0.05 0.70 0.23 0.80 0.24	ок ок ок ок ок ок	Eq. H1-1a
LC11 at 0.00% LC12 at 0.00% LC13 at 0.00% LC14 at 0.00% LC2 at 0.00% LC3 at 0.00% LC4 at 0.00% LC5 at 0.00% LC6 at 0.00%	0.17 0.11 0.07 0.05 0.70 0.23 0.80 0.24 0.69	ok ok ok ok ok ok ok	Eq. H1-1a
LC11 at 0.00% LC12 at 0.00% LC13 at 0.00% LC14 at 0.00% LC2 at 0.00% LC3 at 0.00% LC4 at 0.00% LC5 at 0.00% LC6 at 0.00%	0.17 0.11 0.07 0.05 0.70 0.23 0.80 0.24	ок ок ок ок ок ок	Eq. H1-1a
LC11 at 0.00% LC12 at 0.00% LC13 at 0.00% LC14 at 0.00% LC2 at 0.00% LC3 at 0.00% LC4 at 0.00% LC5 at 0.00%	0.17 0.11 0.07 0.05 0.70 0.23 0.80 0.24 0.69	ok ok ok ok ok ok ok	Eq. H1-1a

LC8 at 0.00% LC9 at 0.00%	0.85 0.15	ок ОК	Eq. H1-1a
W180 at 0.00%	0.19	OK	
W210 at 0.00%	0.63	OK	
Wi180 at 0.00%	0.11	OK	
Wi210 at 0.00%	0.06	OK	
	0.22	OK	
LC1 at 0.00% LC10 at 0.00%	0.33 0.11	OK OK	
LC11 at 0.00%	0.16	OK	
LC12 at 0.00%	0.10	OK	
LC13 at 0.00%	0.07	OK	
LC14 at 0.00%	0.05	OK	
LC2 at 0.00%	0.85	OK	
LC3 at 0.00%	0.85	OK	
LC4 at 0.00%	0.29	OK	Eq. H1-1a
LC5 at 0.00%	0.33	OK	Lq. 111-1a
LC6 at 0.00%	0.33 0.90		
		OK	Eq. H1-1a
LC7 at 0.00%	0.31	OK	
LC8 at 0.00%	0.71	OK	
LC9 at 0.00%	0.17	OK	
W180 at 0.00%	0.24	OK	
W210 at 0.00%	0.41	OK	
Wi180 at 0.00%	0.11	OK	
Wi210 at 0.00%	0.05	OK	
LC1 at 0.00%	0.36	OK	
LC10 at 0.00%	0.11	OK	
LC11 at 0.00%	0.17	OK	
LC12 at 0.00%	0.13	OK	
LC13 at 0.00%	0.08	OK	
LC14 at 0.00%	0.06	OK	
LC2 at 0.00%	0.61	OK	
LC3 at 0.00%	0.34	OK	
LC4 at 0.00%	0.66	OK	Eq. H1-1a
LC5 at 0.00%	0.35	OK	
LC6 at 0.00%	0.69	OK	Eq. H1-1a
LC7 at 0.00%	0.37	OK	
LC8 at 0.00%	0.60	OK	
LC9 at 0.00%	0.18	OK	
W180 at 0.00%	0.37	OK	
W210 at 0.00%	0.36	OK	
Wi180 at 0.00%	0.13	OK	
Wi210 at 0.00%	0.05	OK	
LC1 at 0.00%	0.66	OK	
LC10 at 0.00%	0.11	OK	
LC11 at 0.00%	0.17	OK	
LC12 at 0.00%	0.09	OK	
LC13 at 0.00%	0.06	OK	
LC14 at 0.00%	0.05	OK	
LC2 at 0.00%	0.46	OK	=
LC3 at 0.00%	0.48	OK	Eq. H1-1a
LC4 at 0.00%	0.39	OK	
LC5 at 0.00%	0.70	OK	Eq. H1-1a
LC6 at 0.00%	0.45	OK	
LC7 at 0.00%	0.47	OK	
LC8 at 0.00%	0.38	OK	
LC9 at 0.00%	0.16	OK	
W180 at 0.00%	0.23	OK	
W210 at 0.00%	0.27	ОК	
Wi180 at 0.00%	0.12	ОК	
Wi210 at 0.00%	0.04	OK	

234	LC1 at 0.00%	2.38	N.G.	Eq. H1-1a
	LC10 at 0.00%	0.10	With warnings	
	LC11 at 66.67%	0.12	With warnings	
	LC12 at 66.67%	0.13	With warnings	
	LC13 at 0.00%	0.02	With warnings	
	LC14 at 0.00%	0.02	With warnings	
	LC2 at 33.33%	0.76	With warnings	
	LC3 at 66.67%	1.54	N.G.	
	LC4 at 100.00%	2.34	N.G.	
	LC5 at 0.00%	2.37	N.G.	
	LC6 at 35.42%	0.82	With warnings	Eq. H1-1a
	LC7 at 66.67%	1.56	N.G.	
	LC8 at 100.00%	2.35	N.G.	Eq. H1-1a
	LC9 at 0.00%	0.56	With warnings	
	W180 at 66.67%	1.00	N.G.	
	W210 at 100.00%	1.49	N.G.	
	Wi180 at 66.67%	0.19	With warnings	
	Wi210 at 66.67%	0.20	With warnings	

Bentley Hewlett-Packard Company

Current Date: 3/19/2018 6:07 PM Units system: English File name: W:\STRUCTURAL DEPARTMENT\ANALYSIS SOFTWARE\RAM Elements\RAM Projects\AT&T\CT\CT2046\CT2046.etz\

Geometry data

GLOSSARY

Cb22, Cb33	: Moment gradient coefficients
Cm22, Cm33	Coefficients applied to bending term in interaction formula
d0	: Tapered member section depth at J end of member
DJX	Rigid end offset distance measured from J node in axis X
DJY	Rigid end offset distance measured from J node in axis Y
DJZ	Rigid end offset distance measured from J node in axis Z
DKX	Rigid end offset distance measured from K node in axis X
DKY	Rigid end offset distance measured from K node in axis Y
DKZ	: Rigid end offset distance measured from K node in axis Z
dL	: Tapered member section depth at K end of member
Ig factor	Inertia reduction factor (Effective Inertia/Gross Inertia) for reinforced concrete members
K22	: Effective length factor about axis 2
K33	Effective length factor about axis 3
L22	: Member length for calculation of axial capacity
L33	Member length for calculation of axial capacity
LB pos	: Lateral unbraced length of the compression flange in the positive side of local axis 2
LB neg	Lateral unbraced length of the compression flange in the negative side of local axis 2
RX	: Rotation about X
RY	: Rotation about Y
RZ	: Rotation about Z
то	1 = Tension only member 0 = Normal member
ТХ	: Translation in X
ΤY	: Translation in Y
TZ	: Translation in Z

Nodes

Node	X [ft]	Y [ft]	Z [ft]	Rigid Floor
5	1.7083	0.00	3.1755	0
6	-1.7083	0.00	3.1755	0
10	1.7083	3.33	3.1755	0
12	0.00	3.33	0.00	0
17	1.7083	0.50	3.1755	0
18	-1.7083	0.50	3.1755	0
21	-1.7083	2.6667	3.1755	0
22	1.7083	2.6667	3.1755	0
26	0.00	0.00	0.00	0
117	-5.50	0.00	3.1754	0
119	-3.6042	0.00	-0.1083	0
120	-1.8959	0.00	-3.0672	0
124	-3.6042	3.33	-0.1083	0
125	-5.50	3.33	3.1754	0
127	-5.50	0.50	3.1754	0
129	-3.6042	0.50	-0.1083	0
130	-1.8959	0.50	-3.0672	0
133	-1.8959	2.6667	-3.0672	0
134	-3.6042	2.6667	-0.1083	0
135	-5.50	2.6667	3.1754	0
237	2.90E-05	0.00	-6.3509	0
238	5.50	0.00	3.1754	0

Page1

239	1.8959	0.00	-3.0672	0
240	3.6042	0.00	-0.1083	0
241	5.50	3.33	3.1754	0
243	3.6042	3.33	-0.1083	0
244	1.8959	3.33	-3.0672	0
245	2.90E-05	3.33	-6.3509	0
247	2.90E-05	0.50	-6.3509	0
248	5.50	0.50	3.1754	0
249	1.8959	0.50	-3.0672	0
250	3.6042	0.50	-0.1083	0
251	5.50	2.6667	3.1754	0
253	3.6042	2.6667	-0.1083	0
254	1.8959	2.6667	-3.0672 -6.3509	0
255 280	2.90E-05 -0.75	2.6667 3.33	0.00	0
280	-0.75	0.00	0.00	0
282	0.75	3.33	0.00	0
283	0.75	0.00	0.00	0
284	0.375	3.33	0.6495	0
285	0.375	0.00	0.6495	0
286	-0.375	3.33	0.6495	0
287	-0.375	0.00	0.6495	0
288	0.375	3.33	-0.6495	0
289	0.375	0.00	-0.6495	0
290	-0.375	3.33	-0.6495	0
291	-0.375	0.00	-0.6495	0
302	6.4952	3.33	3.75	0
303	6.4952	0.00	3.75	0
304	6.4952	5.208	3.75	0
305	6.4952	-0.50	3.75	0
396	-1.8959	3.33	-3.0672	0
421	5.3125	2.6667	2.8507	0
423	5.3125	0.50	2.8507	0
424	5.4857	2.6667	2.7507	0
426	5.4857	0.50	2.7507	0
427	5.4857	6.708	2.7507	0
428	5.4857	-1.292	2.7507	0
429	-1.7083	3.33	3.1755	0
438	2.75	2.6667	-1.5877	0
440	2.75	0.50	-1.5877	0
441	2.9232	2.6667	-1.6877	0
443	2.9232	0.50	-1.6877	0
444	2.9232	6.708	-1.6877 -1.6877	0
445	2.9232	-1.292		0
446 448	0.1875	2.6667 0.50	-6.0261 -6.0261	0
440 449	0.1875 0.3607	2.6667	-6.1261	0
451	0.3607	0.50	-6.1261	0
452	0.3607	5.708	-6.1261	o
453	0.3607	-0.292	-6.1261	õ
458	-6.4952	3.33	3.75	õ
459	-6.4952	0.00	3.75	Ō
460	-6.4952	5.208	3.75	õ
461	-6.4952	-0.50	3.75	0
462	2.90E-05	3.33	-7.50	0
463	2.90E-05	0.00	-7.50	0
464	2.90E-05	5.208	-7.50	0
465	2.90E-05	-0.50	-7.50	0
502	-0.1875	2.6667	-6.0261	0
503	-0.1875	0.50	-6.0261	0

504	-0.3607	2.6667	-6.1261	0
505	-0.3607	0.50	-6.1261	0
506	-0.3607	6.708	-6.1261	0
507	-0.3607	-1.292	-6.1261	0
508	-2.75	2.6667	-1.5877	0
509	-2.75	0.50	-1.5877	0
510	-2.9232	2.6667	-1.6877	0
511	-2.9232	0.50	-1.6877	0
512	-2.9232	6.708	-1.6877	0
513	-2.9232	-1.292	-1.6877	0
514	-5.3125	2.6667	2.8507	0
515	-5.3125	0.50	2.8507	0
516	-5.4857	2.6667	2.7507	0
517	-5.4857	0.50	2.7507	0
518	-5.4857	5.708	2.7507	0
519	-5.4857	-0.292	2.7507	0
520	-5.125	2.6667	3.1754	0
521	-5.125	0.50	3.1754	0
522	-5.125	2.6667	3.3754	0
523	-5.125	0.50	3.3754	0
524	-5.125	5.708	3.3754	0
525	-5.125	-0.292	3.3754	0
526	0.00	2.6667	3.1754	0
527	0.00	0.50	3.1754	0
528	0.00	2.6667	3.3754	0
529	0.00	0.50	3.3754	0
530	0.00	5,708	3.3754	0
531	0.00	-0.292	3.3754	0
532	5,125	2.6667	3.1754	0
533	5.125	0.50	3.1754	0
534	5.125	2.6667	3.3754	0
535	5.125	0.50	3.3754	0
536	5.125	5,708	3,3754	0
537	5.125	-0.292	3.3754	0
538	3.125	2.6667	-0.9382	0
539	3.125	0.50	-0.9382	0
544	-2.375	0.50	-2.2372	0
545	-2.375	2.6667	-2.2372	0
545 546	-0.75	0.50	3.1754	0
540 547	-0.75	2.6667	3.1754	0
U-17	-0.75	2.0007	J. I (J.	
	NEW CONTRACTOR STOCKED IN STOCKED I CONTRACTOR STOC			

Restraints

Node	тх	ΤY	ΤZ	RX	RY	RZ
280	1		1	1	1	1
281	1	1	1	1	1	1
282	1	1	1	1	1	1
283	1	1	1	1	1	1
284	1	1	1	1	1	1
285	1	1	1	1	1	1
286	1	1	1	1	1	1
287	1	1	1	1	1	1
288	1	1	1	1	1	1
289	1	1	1	1	1	1
290	1	1	1	1	1	1

291	1	1	1	1	1	1
		an a				

Members

Member	NJ	NK	Description	Section	Material	d0 [in]	dL [in]	lg factor
3	429	6		STube 1x1x1/8	A36	0.00	0.00	0.00
4	10	5		STube 1x1x1/8	A36	0.00	0.00	0.00
34	396	120		STube 1x1x1/8	A36	0.00	0.00	0.00
35	124	119		STube 1x1x1/8	A36	0.00	0.00	0.00
37	125	117		C 3X6	A36	0.00	0.00	0.00
39	124	117		STube 1x1x1/8	A36	0.00	0.00	0.00
65	237	238		STube 1x1x1/8	A36	0.00	0.00	0.00
66	243	240		STube 1x1x1/8	A36	0.00	0.00	0.00
67	244	239		STube 1x1x1/8	A36	0.00	0.00	0.00
68	238	241		C 3X6	A36	0.00	0.00	0.00
69	245	237		C 3X6	A36	0.00	0.00	0.00
70	238	243		STube 1x1x1/8	A36	0.00	0.00	0.00
71	244	237		STube 1x1x1/8	A36	0.00	0.00	0.00
72	251	255		P 1-3/8x1-3/8	A36	0.00	0.00	0.00
73	248	247		P 1-3/8x1-3/8	A36	0.00	0.00	0.00
78	245	125		STube 1x1x1/8	A36	0.00	0.00	0.00
79	237	117		STube 1x1x1/8	A36	0.00	0.00	0.00
80	247	127		P 1-3/8x1-3/8	A36	0.00	0.00	0.00
81	255	135		P 1-3/8x1-3/8	A36	0.00	0.00	0.00
82	396	237		STube 1x1x1/8	A36	0.00	0.00	0.00
83	117	238		STube 1x1x1/8	A36	0.00	0.00	0.00
84	125	241		STube 1x1x1/8	A36	0.00	0.00	0.00
85	135	251		P 1-3/8x1-3/8	A36	0.00	0.00	0.00
86	127	248		P 1-3/8x1-3/8	A36	0.00	0.00	0.00
87	429	117		STube 1x1x1/8	A36	0.00	0.00	0.00
88	10	238		STube 1x1x1/8	A36	0.00	0.00	0.00
8 9	6	119		STube 1x1x1/8	A36	0.00	0.00	0.00
90	5	240		STube 1x1x1/8	A36	0.00	0.00	0.00
91	239	120		STube 1x1x1/8	A36	0.00	0.00	0.00
92	280	124		STube 1x1x1/8	A36	0.00	0.00	0.00
93	281	119		STube 1x1x1/8	A36	0.00	0.00	0.00
94	284	10		STube 1x1x1/8	A36	0.00	0.00	0.00
95	285	5		STube 1x1x1/8	A36	0.00	0.00	0.00
96	282	243		STube 1x1x1/8	A36	0.00	0.00	0.00
97	240	283		STube 1x1x1/8	A36	0.00	0.00	0.00
98	429	286		STube 1x1x1/8	A36	0.00	0.00	0.00
99	287	6		STube 1x1x1/8	A36	0.00	0.00	0.00
100	288	244		STube 1x1x1/8	A36	0.00	0.00	0.00
101	289	239		STube 1x1x1/8	A36	0.00	0.00	0.00
102	290	396		STube 1x1x1/8	A36	0.00	0.00	0.00
103	291	120		STube 1x1x1/8	A36	0.00	0.00	0.00
104	286	6		STube 1x1x1/8	A36	0.00	0.00	0.00
105	280	119		STube 1x1x1/8	A36	0.00	0.00	0.00
106	290	120		STube 1x1x1/8	A36	0.00	0.00	0.00
107	288	239		STube 1x1x1/8	A36	0.00	0.00	0.00
108	282	240		STube 1x1x1/8	A36	0.00	0.00	0.00
109	284	5		STube 1x1x1/8	A36	0.00	0.00	0.00
113	305	304		L 3X3X1_4	A53 GrB	0.00	0.00	0.00
208	427	428		PIPE 2x0.154	A53 GrB	0.00	0.00	0.00
216	444	445		PIPE 2x0.154	A53 GrB	0.00	0.00	0.00

219	448	451	RndBar 1-1_2	A36	0.00	0.00	0.00
220	452	453	PIPE 2x0.154	A53 GrB	0.00	0.00	0.00
222	461	460	L 3X3X1_4	A53 GrB	0.00	0.00	0.00
223	465	464	L 3X3X1_4	A53 GrB	0.00	0.00	0.00
224	245	462	C 3X6	A36	0.00	0.00	0.00
225	237	463	C 3X6	A36	0.00	0.00	0.00
226	117	459	C 3X6	A36	0.00	0.00	0.00
227	125	458	C 3X6	A36	0.00	0.00	0.00
228	241	302	C 3X6	A36	0.00	0.00	0.00
229	238	303	C 3X6	A36	0.00	0.00	0.00
234	241	245	STube 1x1x1/8	A36	0.00	0.00	0.00
255	506	507	PIPE 2x0.154	A53 GrB	0.00	0.00	0.00
258	512	513	PIPE 2x0.154	A53 GrB	0.00	0.00	0.00
261	518	519	PIPE 2x0.154	A53 GrB	0.00	0.00	0.00
264	524	525	PIPE 2x0.154	A53 GrB	0.00	0.00	0.00
267	530	531	PIPE 2x0.154	A53 GrB	0.00	0.00	0.00
270	536	537	PIPE 2x0.154	A53 GrB	0.00	0.00	0.00
271	547	546	P 1-3/8x1-3/8	A36	0.00	0.00	0.00
272	545	544	P 1-3/8x1-3/8	A36	0.00	0.00	0.00
273	538	539	P 1-3/8x1-3/8	A36	0.00	0.00	0.00

Orientation of local axes

Member	Rotation [Deg]	Axes23	NX	NY	NZ	
3	0.00	2	1.00	0.00	0.00	
4	0.00	2	1.00	0.00	0.00	
34	0.00	2	-0.50	0.00	0.866	
35	0.00	2	-0.50	0.00	0.866	
37	0.00	2	-0.50	0.00	-0.866	
66	0.00	2	-0.50	0.00	-0.866	
67	0.00	2	-0.50	0.00	-0.866	
68	0.00	2	0.50	0.00	-0.866	
69	0.00	2	1.00	0.00	0.00	
72	270.00	0	0.00	0.00	0.00	
73	270.00	0	0.00	0.00	0.00	
80	270.00	0	0.00	0.00	0.00	
81	270.00	0	0.00	0.00	0.00	
85	270.00	0	0.00	0.00	0.00	
86	270.00	0	0.00	0.00	0.00	
113	0.00	2	-0.2588	0.00	-0.9659	
208	0.00	2	-0.50	0.00	-0.866	
216	0.00	2	-0.50	0.00	-0.866	
220	0.00	2	-0.50	0.00	-0.866	
222	0.00	2	0.9659	0.00	0.2588	
223	45.00	0	0.00	0.00	0.00	
224	90.00	0	0.00	0.00	0.00	
225	270.00	0	0.00	0.00	0.00	
226	270.00	0	0.00	0.00	0.00	
227	90.00	0	0.00	0.00	0.00	
228	90.00	0	0.00	0.00	0.00	
229	270.00	0	0.00	0.00	0.00	
255	0.00	2	-0.50	0.00	0.866	
258	0.00	2	-0.50	0.00	0.866	
261	0.00	2	-0.50	0.00	0.866	
271	180.00	0	0.00	0.00	0.00	

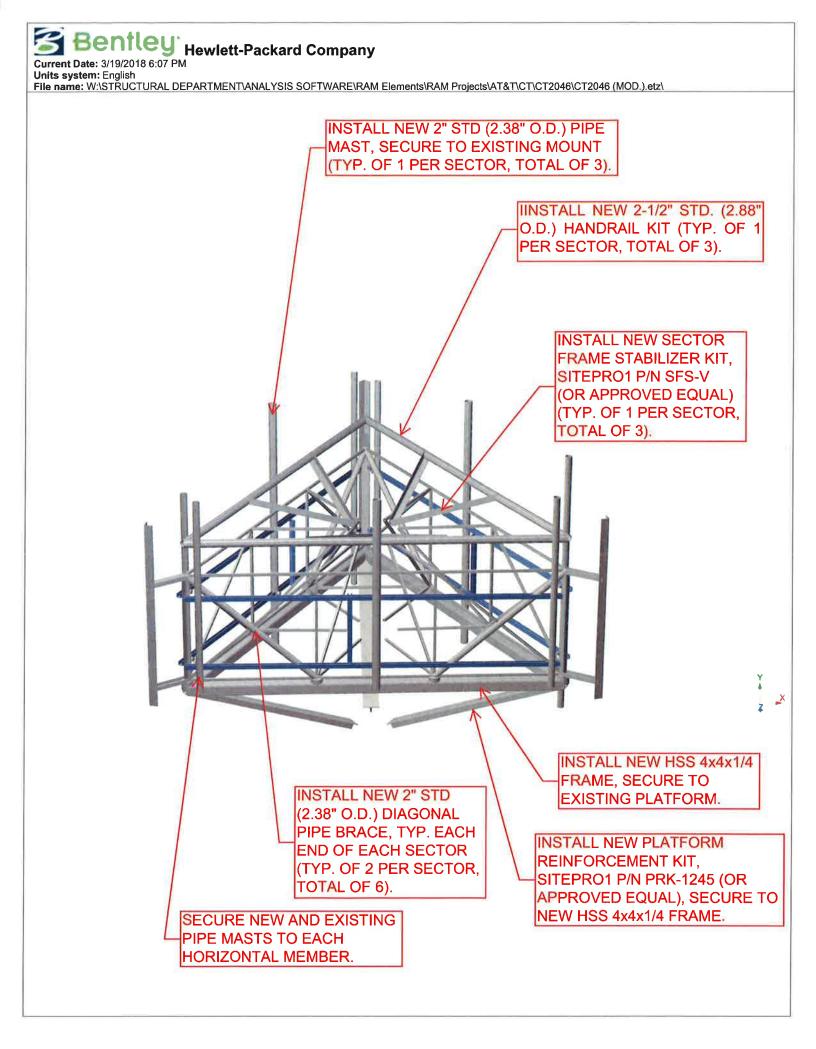
272	300.00	0	0.00	0.00	0.00	
273	60.00	0	0.00	0.00	0.00	
	*****				******	********

Rigid end offsets

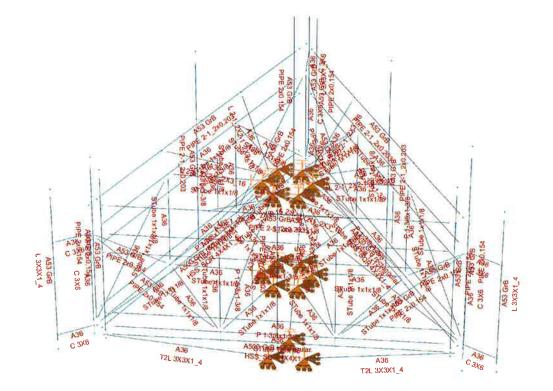
Member	DJX	DJY	DJZ	DKX	DKY	DKZ
-	[in]	[in]	[in]	[in]	[in]	[in]
72	1.4073	0.00	-0.8125	1.4073	0.00	-0.8125
73	1.4073	0.00	-0.8125	1.4073	0.00	-0.8125
80	-2.2198	0.00	-0.5948	-2.2198	0.00	-0.5948
81	-2.2198	0.00	-0.5948	-2.2198	0.00	-0.5948
85	-0.5948	0.00	2.2198	-1.4073	-1.625	0.8125
86	-0.5948	0.00	2.2198	-1.4073	-1.625	0.8125



Mount Calculations (Proposed Conditions)

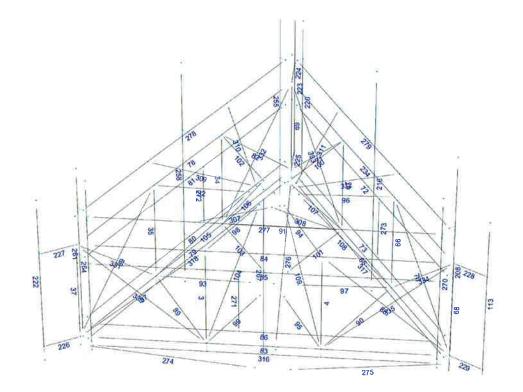


Current Date: 3/19/2018 6:19 PM Units system: English File name: W:\STRUCTURAL DEPARTMENT\ANALYSIS SOFTWARE\RAM Elements\RAM Projects\AT&T\CT\CT2046\CT2046 (MOD.).etz\



X

Current Date: 3/19/2018 6:20 PM Units system: English File name: W:\STRUCTURAL DEPARTMENT\ANALYSIS SOFTWARE\RAM Elements\RAM Projects\AT&T\CT\CT2046\CT2046 (MOD.).etz\



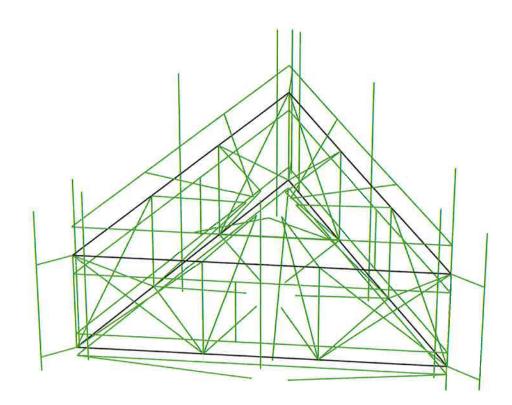
X

Current Date: 3/19/2018 6:20 PM Units system: English File name: W:\STRUCTURAL DEPARTMENT\ANALYSIS SOFTWARE\RAM Elements\RAM Projects\AT&T\CT\CT2046\CT2046 (MOD.).etz\

Design status



X





Current Date: 3/19/2018 6:20 PM Units system: English File name: W:\STRUCTURAL DEPARTMENT\ANALYSIS SOFTWARE\RAM Elements\RAM Projects\AT&T\CT\CT2046\CT2046 (MOD.).etz\

Steel Code Check

Report: Summary - For all selected load conditions

Load conditions to be included in design :

W180=-W0 W210=-W30 Wi180=-Wi0 Wi210=-Wi30 LC1=1.2DL+1.6W0 LC2=1.2DL+1.6W30 LC3=1.2DL-1.6W0 LC4=1.2DL-1.6W30 LC5=0.9DL+1.6W0 LC6=0.9DL+1.6W30 LC7=0.9DL-1.6W0 LC8=0.9DL-1.6W30 LC9=1.2DL+Di+Wi0 LC10=1.2DL+Di+Wi30 LC11=1.2DL+Di-Wi0 LC12=1.2DL+Di-Wi30 LC13=1.2DL LC14=0.9DL

Description	Section	Member	Ctrl Eq.	Ratio	Status	Reference
	C 3X6	37	LC1 at 18.75%	0.12	ок ОК	Eq. H1-1b
			LC10 at 100.00%	0.02	ОК	
			LC11 at 100.00%	0.03	ОК	
			LC12 at 18.75%	0.01	OK	
			LC13 at 83.33%	0.01	OK	
			LC14 at 83.33%	0.01	ОК	
			LC2 at 100.00%	0.13	ок	Eq. H1-1b
			LC3 at 18.75%	0.12	ОК	
			LC4 at 100.00%	0.12	ОК	
			LC5 at 18.75%	0.12	ОК	
			LC6 at 100.00%	0.13	ОК	
			LC7 at 18.75%	0.11	ОК	
			LC8 at 100.00%	0.12	ОК	
			LC9 at 18.75%	0.02	ОК	
			W180 at 18.75%	0.07	OK	
			W210 at 100.00%	0.08	OK	
			Wi180 at 18.75%	0.01	ОК	
			Wi210 at 100.00%	0.01	OK	
		68	LC1 at 0.00%	0.11	OK	
			LC10 at 16.67%	0.01	ОК	
			LC11 at 79.17%	0.03	ОК	
			LC12 at 0.00%	0.02	ОК	
			LC13 at 16.67%	0.01	ОК	
			LC14 at 16.67%	0.01	OK	
			LC2 at 0.00%	0.11	ОК	
			LC3 at 0.00%	0.11	ок	
			LC4 at 0.00%	0.12	ок	Eq. H1-1b
			LC5 at 0.00%	0.11	ОК	•
			LC6 at 0.00%	0.11	OK	
			LC7 at 0.00%	0.11	ОК	

LC8 at 0.00% LC9 at 81.25% W180 at 0.00% W210 at 0.00% Wi180 at 0.00%	0.11 0.02 0.07 0.07 0.01	ок ок ок ок	
Wi210 at 0.00%	0.01	OK	
LC1 at 100.00% LC10 at 18.75%	0.16	OK	Eq. H1-1b
LC10 at 10.75%	0.02 0.02	OK OK	
LC12 at 83.33%	0.02	OK	
LC13 at 83.33%	0.01	OK	
LC14 at 83.33%	0.01	OK	
LC2 at 18.75%	0.13	OK	Eq. H1-1b
LC3 at 100.00%	0.14	OK	
LC4 at 18.75%	0.13	OK	
LC5 at 100.00%	0.15	OK	
LC6 at 18.75%	0.13	OK	
LC7 at 100.00%	0.14	OK	
LC8 at 18.75% LC9 at 100.00%	0.13 0.04	OK OK	
W180 at 100.00%	0.04	OK	
W210 at 18.75%	0.08	OK	
Wi180 at 100.00%	0.02	OK	
Wi210 at 18.75%	0.01	ОК	
LC1 at 0.00%	0.04	ОК	
LC10 at 0.00%	0.02	OK	
LC11 at 0.00%	0.02	OK	
LC12 at 0.00%	0.02	OK	
LC13 at 0.00%	0.02	OK	
LC14 at 0.00%	0.01	OK	
LC2 at 0.00%	0.05	OK	
LC3 at 100.00% LC4 at 0.00%	0.02 0.06	ок ок	Eq. H1-1b
LC5 at 0.00%	0.03	OK	Eq. H1- 1b
LC6 at 0.00%	0.00	OK	
LC7 at 100.00%	0.02	OK	
LC8 at 0.00%	0.05	ОK	
LC9 at 0.00%	0.02	OK	
W180 at 0.00%	0.01	OK	
W210 at 0.00%	0.03	OK	
Wi180 at 0.00%	0.00	OK	
Wi210 at 0.00%	0.00	OK	*****
LC1 at 0.00%	0.03	OK	
LC10 at 0.00%	0.03	OK	
LC11 at 0.00%	0.03	OK	
LC12 at 0.00% LC13 at 0.00%	0.03 0.03	OK OK	
LC13 at 0.00%	0.03	OK	
LC2 at 0.00%	0.02 0.05	OK	Eq. H1-1b
LC3 at 100.00%	0.03	OK	Eq. H1-1b
LC4 at 0.00%	0.04	OK	
LC5 at 0.00%	0.03	ОK	
LC6 at 0.00%	0.04	OK	
LC7 at 100.00%	0.02	ОК	
LC8 at 0.00%	0.03	OK	
LC9 at 0.00%	0.03	OK	
W180 at 100.00%	0.01	OK	
W210 at 0.00%	0.01	OK	
Wi180 at 100.00%	0.00	OK	
Wi210 at 0.00%	0.00	OK	

226	LC1 at 0.00% LC10 at 0.00% LC11 at 0.00% LC12 at 0.00% LC13 at 0.00% LC2 at 0.00% LC2 at 0.00% LC3 at 0.00% LC4 at 0.00% LC5 at 0.00% LC6 at 0.00% LC7 at 0.00% LC9 at 0.00% W180 at 0.00% W180 at 0.00% W180 at 0.00%	0.05 0.03 0.03 0.03 0.02 0.03 0.03 0.04 0.04 0.04 0.02 0.03 0.03 0.03 0.03 0.01 0.01 0.00 0.00	0 K K K K K K K K	Eq. H1-1b
227	LC1 at 0.00% LC10 at 0.00% LC11 at 0.00% LC12 at 0.00% LC13 at 0.00% LC14 at 0.00% LC2 at 0.00% LC3 at 0.00% LC5 at 0.00% LC5 at 0.00% LC6 at 0.00% LC7 at 0.00% V180 at 0.00% W180 at 0.00% W180 at 0.00%	0.04 0.02 0.02 0.02 0.01 0.06 0.07 0.03 0.04 0.06 0.06 0.03 0.02 0.03 0.02 0.03 0.03 0.00 0.00	ок ок ок ок ок ок ок ок ок ок ок ок ок о	Eq. H1-1b
228	LC1 at 0.00% LC10 at 0.00% LC11 at 0.00% LC12 at 0.00% LC13 at 0.00% LC14 at 0.00% LC2 at 100.00% LC3 at 0.00% LC4 at 0.00% LC5 at 0.00% LC5 at 0.00% LC8 at 0.00% W180 at 0.00% W180 at 0.00% Wi180 at 0.00%	0.04 0.02 0.02 0.02 0.02 0.01 0.02 0.05 0.05 0.05 0.05 0.05 0.05 0.05	ок ок ок ок ок ок ок ок ок ок ок ок	Eq. H1-1b Eq. H1-1b
229	LC1 at 0.00% LC10 at 0.00% LC11 at 0.00% LC12 at 0.00% LC13 at 0.00% LC14 at 0.00% LC2 at 0.00%	0.04 0.03 0.03 0.03 0.03 0.02 0.02	ok ok ok ok ok ok	

Page3

		LC3 at 0.00% LC4 at 0.00% LC5 at 0.00% LC6 at 0.00% LC7 at 0.00% LC8 at 0.00% W180 at 0.00% W180 at 0.00% W180 at 0.00% Wi180 at 0.00%	0.04 0.03 0.02 0.04 0.03 0.03 0.01 0.01 0.01 0.00 0.00	ОК ОК ОК ОК ОК ОК ОК ОК ОК	Eq. H1-1b
HSS_SQR 4X4X1_4	316	LC1 at 64.58%	0.05	ОК	
		LC10 at 50.00%	0.03	OK	
		LC11 at 50.00%	0.03	OK	
		LC12 at 50.00%	0.03	OK	
		LC13 at 50.00%	0.02	OK	
		LC14 at 50.00% LC2 at 35.42%	0.02 0.08	OK OK	Eq. H1-1b
		LC3 at 65.63%	0.06	OK	сч. ПТ-ТВ
		LC4 at 64.58%	0.09	OK	Eq. H1-1b
		LC5 at 64.58%	0.05	OK	
		LC6 at 35.42%	0.08	ОК	
		LC7 at 65.63%	0.06	ОК	
		LC8 at 64.58%	0.09	OK	
		LC9 at 50.00%	0.03	OK	
		W180 at 65.63%	0.03	OK	
		W210 at 64.58%	0.05 0.01	OK OK	
		Wi180 at 3.13% Wi210 at 64.58%	0.01	OK	
	317	LC1 at 65.63%	0.10	ОК	Eq. H1-1b
		LC10 at 50.00%	0.03	ОК	
		LC11 at 50.00%	0.03	OK	
		LC12 at 50.00%	0.03	OK	
		LC13 at 50.00%	0.02	OK	
		LC14 at 50.00% LC2 at 64.58%	0.01 0.09	OK OK	Eg. H1-1b
		LC3 at 65.63%	0.08	OK	Eq. 111-10
		LC4 at 34.38%	0.10	OK	Eq. H1-1b
		LC5 at 65.63%	0.09	OK	
		LC6 at 64.58%	0.09	ОК	
		LC7 at 65.63%	0.08	OK	
		LC8 at 34.38%	0.10	OK	
		LC9 at 50.00%	0.03	OK	
		W180 at 65.63% W210 at 34.38%	0.06	OK	
		W210 at 34.38% Wi180 at 65.63%	0.06 0.01	OK OK	
		Wi210 at 34.38%	0.01	OK	
	318	LC1 at 34.38%	0.10	OK	Eq. H1-1b
		LC10 at 50.00%	0.03	OK	
		LC11 at 50.00% LC12 at 50.00%	0.03 0.03	OK OK	
		LC12 at 50.00%	0.03	OK	
		LC14 at 50.00%	0.02	OK	
		LC2 at 65.63%	0.09	OK	Eq. H1-1b
		LC3 at 64.58%	0.08	ОК	Eq. H1-1b
		LC4 at 35.42%	0.09	ОК	Eq. H1-1b
		LC5 at 34.38%	0.10	OK	
		LC6 at 65.63%	0.09	OK	
		LC7 at 64.58%	0.08	OK	
		LC8 at 35.42%	0.08	OK	
		LC9 at 34.38%	0.03	OK	

		W180 at 34.38% W210 at 65.63% Wi180 at 34.38% Wi210 at 65.63%	0.05 0.05 0.01 0.01	ОК ОК ОК ОК	
L 2-1_2X2-1_2X3_16	307	LC1 at 0.00% LC10 at 0.00% LC11 at 0.00% LC12 at 0.00% LC13 at 0.00% LC2 at 0.00% LC2 at 0.00% LC3 at 0.00% LC4 at 0.00% LC5 at 0.00% LC6 at 0.00% LC9 at 0.00% W180 at 0.00% W110 at 0.00% Wi210 at 0.00%	0.10 0.03 0.02 0.03 0.02 0.05 0.09 0.02 0.10 0.05 0.09 0.02 0.03 0.06 0.02 0.01 0.00	ОК ОК ОК ОК ОК ОК ОС	Eq. H2-1
	308	LC1 at 0.00% LC10 at 0.00% LC11 at 0.00% LC12 at 0.00% LC13 at 0.00% LC14 at 0.00% LC2 at 0.00% LC3 at 0.00% LC5 at 0.00% LC6 at 0.00% LC7 at 0.00% LC9 at 0.00% W180 at 0.00% W1180 at 0.00% W1180 at 0.00%	0.10 0.02 0.03 0.03 0.02 0.03 0.02 0.03 0.08 0.05 0.10 0.03 0.09 0.05 0.02 0.06 0.02 0.01 0.00	0K 0K 0K 0K 0K 0K 0K 0K 0K 0K 0K 0K 0K 0K	Eq. H2-1
	309	LC1 at 0.00% LC10 at 0.00% LC11 at 0.00% LC12 at 0.00% LC13 at 0.00% LC2 at 0.00% LC2 at 0.00% LC3 at 0.00% LC4 at 0.00% LC5 at 0.00% LC6 at 0.00% LC7 at 0.00% W180 at 0.00% W180 at 0.00% W180 at 0.00%	0.10 0.03 0.03 0.04 0.03 0.02 0.20 0.12 0.21 0.11 0.20 0.12 0.21 0.21	ок о	Eq. H2-1
	310	LC1 at 0.00% LC10 at 0.00%	0.07 0.04	ОК ОК	un un en

	LC11 at 0.00% LC12 at 0.00% LC13 at 0.00% LC14 at 0.00% LC2 at 0.00% LC3 at 0.00% LC4 at 0.00% LC5 at 0.00% LC6 at 0.00% LC7 at 0.00% LC8 at 0.00% W180 at 0.00% W1180 at 0.00% Wi180 at 0.00%	0.02 0.04 0.03 0.22 0.08 0.23 0.07 0.22 0.07 0.23 0.07 0.23 0.03 0.04 0.14 0.01 0.02	ок ок ок ок ок ок ок ок ок ок ок	Eq. H2-1
311	LC1 at 0.00% LC10 at 0.00% LC11 at 0.00% LC12 at 0.00% LC13 at 0.00% LC2 at 0.00% LC3 at 0.00% LC3 at 0.00% LC4 at 0.00% LC5 at 0.00% LC6 at 0.00% LC7 at 0.00% LC9 at 0.00% W180 at 0.00% W180 at 0.00% Wi180 at 0.00%	0.06 0.04 0.03 0.03 0.02 0.23 0.08 0.22 0.06 0.23 0.08 0.22 0.06 0.23 0.08 0.22 0.03 0.04 0.14 0.01 0.02	ок ок ок ок ок ок ок ок ок ок ок ок ок о	Eq. H2-1
312	LC1 at 0.00% LC10 at 0.00% LC11 at 0.00% LC12 at 0.00% LC13 at 0.00% LC2 at 0.00% LC3 at 0.00% LC3 at 0.00% LC4 at 0.00% LC5 at 0.00% LC6 at 0.00% LC7 at 0.00% LC8 at 0.00% W180 at 0.00% W1180 at 0.00% Wi180 at 0.00%	0.10 0.04 0.03 0.03 0.02 0.20 0.12 0.19 0.10 0.20 0.12 0.19 0.10 0.12 0.19 0.03 0.07 0.12 0.01 0.02	ок ок ок ок ок ок ок ок ок ок ок ок	Eq. H2-1
113	LC1 at 68.75% LC10 at 10.42% LC11 at 10.42% LC12 at 10.42% LC13 at 10.42% LC14 at 10.42% LC2 at 68.75% LC3 at 66.67% LC4 at 66.67%	0.03 0.01 0.01 0.01 0.01 0.01 0.03 0.03	ОК ОК ОК ОК ОК ОК ОК	Eq. H2-1 Eq. H3-8

L 3X3X1_4

	LC5 at 68.75% LC6 at 68.75% LC7 at 66.67% LC8 at 66.67% LC9 at 10.42% W180 at 68.75% W210 at 66.67% Wi180 at 10.42% Wi210 at 10.42%	0.03 0.03 0.04 0.01 0.02 0.02 0.00 0.00	ок ок ок ок ок ок ок	
222	LC1 at 68.75% LC10 at 10.42% LC11 at 10.42% LC12 at 10.42% LC13 at 10.42% LC13 at 10.42%	0.03 0.01 0.01 0.01 0.01 0.01	OK OK OK OK OK	Eq. H3-8
	LC2 at 66.67% LC3 at 66.67% LC4 at 68.75% LC5 at 66.67% LC6 at 66.67% LC7 at 66.67%	0.04 0.03 0.03 0.04 0.04 0.04	ок ОК ОК ОК ОК	Eq. H2-1 Eq. H3-8 Eq. H2-1
	LC8 at 68.75% LC9 at 10.42% W180 at 66.67% W210 at 68.75% Wi180 at 10.42% Wi210 at 10.42%	0.03 0.01 0.02 0.02 0.00 0.00	ok ok ok ok ok	
223	LC1 at 68.75% LC10 at 10.42% LC11 at 10.42% LC12 at 10.42% LC12 at 10.42% LC13 at 10.42% LC14 at 10.42%	0.03 0.01 0.01 0.01 0.01 0.01	ОК ОК ОК ОК ОК	Eq. H2-1
	LC2 at 66.67% LC3 at 68.75% LC4 at 66.67% LC5 at 68.75% LC6 at 66.67% LC7 at 68.75% LC8 at 66.67%	0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03	OK OK OK OK OK OK	Sec. F1 Sec. F1
	LC9 at 10.42% W180 at 68.75% W210 at 66.67% Wi180 at 10.42% Wi210 at 10.42%	0.01 0.02 0.01 0.00 0.00	OK OK OK OK	
72	LC1 at 3.41% LC10 at 50.00% LC11 at 42.61% LC12 at 34.66% LC13 at 42.61% LC14 at 42.61%	0.91 0.10 0.12 0.10 0.04 0.03	ОК ОК ОК ОК ОК	Sec. C5.2
	LC2 at 50.00% LC3 at 49.43%	0.89 0.79	OK OK	Sec. C5.2
	LC4 at 49.43% LC5 at 3.41%	0.73 0.90	OK OK	Sec. C5.2
	LC6 at 50.00% LC7 at 49.43% LC8 at 49.43% LC9 at 3.41% W180 at 49.43% W210 at 49.43%	0.89 0.80 0.73 0.18 0.47 0.45	OK OK OK OK OK	Sec. C5.2

P 1-3/8x1-3/8

Wi180 at 49.43%	0.13	OK	
Wi210 at 49.43%	0.07	OK	
L C1 at 0 00%	A 69	OK	Sec. 05.2
LC1 at 0.00% LC10 at 42.61%	0.68 0.08	ок ОК	Sec. C5.2
LC11 at 42.61%	0.08	OK	
LC12 at 42.61%	0.11	OK	
LC12 at 42.61%			
	0.06	OK	
LC14 at 42.61% LC2 at 100.00%	0.05 0.26	OK	
		OK	Sec. C3.4
LC3 at 3.41%	0.31	OK	Sec. C3.4
LC4 at 65.34%	0.61	OK	
LC5 at 0.00%	0.68	OK	
LC6 at 100.00%	0.26	OK	
LC7 at 3.41%	0.31	OK	
LC8 at 65.34%	0.61	OK	Sec. C5.2
LC9 at 43.18%	0.15	OK	
W180 at 3.41%	0.19	OK	
W210 at 65.34%	0.36	OK	
Wi180 at 0.00%	0.07	OK	
Wi210 at 65.34%	0.05	OK	
LC1 at 65.34%	0.52	OK	
LC10 at 43.18%	0.12	OK	
LC11 at 43.75%	0.08	OK	
LC12 at 43.18%	0.10	OK	
LC13 at 43.18%	0.07	OK	
LC14 at 43.18%	0.05	OK	
LC2 at 0.00%	0.66	OK	Sec. C5.2
LC3 at 43.75%		OK	Sec. C5.2 Sec. C5.2
	0.26		Sec. C3.4
LC4 at 3.98%	0.43	OK	
LC5 at 65.34%	0.52	OK	Sec. C5.2
LC6 at 0.00%	0.66	OK	
LC7 at 43.75%	0.25	OK	
LC8 at 3.98%	0.43	OK	
LC9 at 43.18%	0.13	OK	
W180 at 3.41%	0.14	OK	
W210 at 3.98%	0.26	OK	
Wi180 at 3.98%	0.02	OK	
Wi210 at 3.98%	0.04	ОК	
LC1 at 96.59%	0.97	ОК	
LC10 at 50.57%	0.11	OK	
LC11 at 50.57%	0.08	OK	
LC12 at 43.18%	0.12		
		Un	
		OK OK	
LC13 at 43.18%	0.05	ОК	
LC13 at 43.18% LC14 at 43.18%	0.05 0.04	OK OK	Sec (5)
LC13 at 43.18% LC14 at 43.18% LC2 at 50.57%	0.05 0.04 0.81	OK OK OK	Sec. C5.2
LC13 at 43.18% LC14 at 43.18% LC2 at 50.57% LC3 at 96.59%	0.05 0.04 0.81 0.59	ok ok ok ok	Sec. C5.2
LC13 at 43.18% LC14 at 43.18% LC2 at 50.57% LC3 at 96.59% LC4 at 50.00%	0.05 0.04 0.81 0.59 0.79	ОК ОК ОК ОК	
LC13 at 43.18% LC14 at 43.18% LC2 at 50.57% LC3 at 96.59% LC4 at 50.00% LC5 at 96.59%	0.05 0.04 0.81 0.59 0.79 0.97	ок ок ок ок ок ок	Sec. C5.2 Sec. C5.2
LC13 at 43.18% LC14 at 43.18% LC2 at 50.57% LC3 at 96.59% LC4 at 50.00% LC5 at 96.59% LC6 at 50.57%	0.05 0.04 0.81 0.59 0.79 0.97 0.81	ок ок ок ок ок ок	
LC13 at 43.18% LC14 at 43.18% LC2 at 50.57% LC3 at 96.59% LC4 at 50.00% LC5 at 96.59% LC6 at 50.57% LC7 at 96.59%	0.05 0.04 0.81 0.59 0.79 0.97 0.81 0.59	ок ок ок ок ок ок	Sec. C5.2
LC13 at 43.18% LC14 at 43.18% LC2 at 50.57% LC3 at 96.59% LC4 at 50.00% LC5 at 96.59% LC6 at 50.57% LC7 at 96.59% LC8 at 50.00%	0.05 0.04 0.81 0.59 0.79 0.97 0.81 0.59 0.80	ок ок ок ок ок ок ок	
LC13 at 43.18% LC14 at 43.18% LC2 at 50.57% LC3 at 96.59% LC4 at 50.00% LC5 at 96.59% LC6 at 50.57% LC7 at 96.59% LC8 at 50.00% LC9 at 96.59%	0.05 0.04 0.81 0.59 0.79 0.97 0.81 0.59 0.80 0.11	ок ок ок ок ок ок ок	Sec. C5.2
LC13 at 43.18% LC14 at 43.18% LC2 at 50.57% LC3 at 96.59% LC4 at 50.00% LC5 at 96.59% LC6 at 50.57% LC7 at 96.59% LC8 at 50.00% LC9 at 96.59%	0.05 0.04 0.81 0.59 0.79 0.97 0.81 0.59 0.80	ок ок ок ок ок ок ок ок	Sec. C5.2
LC13 at 43.18% LC14 at 43.18% LC2 at 50.57% LC3 at 96.59% LC4 at 50.00% LC5 at 96.59% LC6 at 50.57% LC7 at 96.59% LC8 at 50.00%	0.05 0.04 0.81 0.59 0.79 0.97 0.81 0.59 0.80 0.11	ок ок ок ок ок ок ок	Sec. C5.2
LC13 at 43.18% LC14 at 43.18% LC2 at 50.57% LC3 at 96.59% LC4 at 50.00% LC5 at 96.59% LC6 at 50.57% LC7 at 96.59% LC8 at 50.00% LC9 at 96.59% W180 at 96.59%	0.05 0.04 0.81 0.59 0.79 0.97 0.81 0.59 0.80 0.11 0.37	ок ок ок ок ок ок ок ок	Sec. C5.2
LC13 at 43.18% LC14 at 43.18% LC2 at 50.57% LC3 at 96.59% LC4 at 50.00% LC5 at 96.59% LC6 at 50.57% LC7 at 96.59% LC8 at 50.00% LC9 at 96.59% W180 at 96.59%	0.05 0.04 0.81 0.59 0.79 0.97 0.81 0.59 0.80 0.11 0.37 0.51	ок окк ок ок ок ок ок ок	Sec. C5.2
LC13 at 43.18% LC14 at 43.18% LC2 at 50.57% LC3 at 96.59% LC4 at 50.00% LC5 at 96.59% LC6 at 50.57% LC7 at 96.59% LC8 at 50.00% LC9 at 96.59% W180 at 96.59% W210 at 50.57% Wi180 at 50.57%	0.05 0.04 0.81 0.59 0.79 0.97 0.81 0.59 0.80 0.11 0.37 0.51 0.07 0.08	ок ок ок ок ок ок ок ок ок ок	Sec. C5.2
LC13 at 43.18% LC14 at 43.18% LC2 at 50.57% LC3 at 96.59% LC4 at 50.00% LC5 at 96.59% LC6 at 50.57% LC7 at 96.59% LC8 at 50.00% LC9 at 96.59% W180 at 96.59% W210 at 50.57% Wi180 at 50.57% Wi210 at 50.00%	0.05 0.04 0.81 0.59 0.79 0.97 0.81 0.59 0.80 0.11 0.37 0.51 0.07 0.08	ок ок ок ок ок ок ок ок	Sec. C5.2
LC13 at 43.18% LC14 at 43.18% LC2 at 50.57% LC3 at 96.59% LC4 at 50.00% LC5 at 96.59% LC6 at 50.57% LC7 at 96.59% LC8 at 50.00% LC9 at 96.59% W180 at 96.59% W210 at 50.57% Wi180 at 50.57%	0.05 0.04 0.81 0.59 0.79 0.97 0.81 0.59 0.80 0.11 0.37 0.51 0.07 0.08	ок ок ок ок ок ок ок ок ок ок	Sec. C5.2

LC13 at 43.18% LC14 at 43.18% LC2 at 49.43% LC3 at 50.00% LC4 at 50.00% LC5 at 50.00% LC6 at 49.43% LC7 at 50.00% LC8 at 50.00% LC9 at 50.00%	0.04 0.03 0.69 0.59 0.73 0.65 0.68 0.58 0.72 0.09	ок ок ок ок ок ок ок	Sec. C5.2 Sec. C5.2 Sec. C5.2
W180 at 50.00% W210 at 50.00% Wi180 at 49.43% Wi210 at 50.00%	0.35 0.41 0.08 0.07	OK OK OK OK	
LC1 at 70.45% LC10 at 43.18% LC11 at 43.18% LC12 at 43.75% LC13 at 43.18% LC14 at 43.18% LC2 at 43.18%	0.24 0.13 0.13 0.09 0.07 0.05 0.34	OK OK OK OK OK	Sec. C5.2
LC3 at 70.45% LC4 at 43.75% LC5 at 70.45% LC6 at 43.18% LC7 at 70.45% LC8 at 43.75% LC9 at 43.18% W180 at 70.45%	0.46 0.29 0.25 0.33 0.46 0.27 0.07 0.28	ок ОК ОК ОК ОК ОК	Sec. C5.2 Sec. C5.2 Sec. C5.2
W210 at 34.66% Wi180 at 96.59% Wi210 at 34.66% 	0.18 0.07 0.03 0.28	OK OK OK	Sec. C5.2
LC10 at 100.00% LC11 at 100.00% LC12 at 0.00% LC13 at 100.00% LC14 at 100.00% LC2 at 100.00%	0.07 0.05 0.03 0.03 0.02 0.29	ok ok ok ok ok ok	Sec. C5.2
LC2 at 100.00% LC3 at 43.75% LC4 at 100.00% LC5 at 50.00% LC6 at 100.00% LC7 at 43.75% LC8 at 100.00% W180 at 43.75% W210 at 100.00% Wi180 at 43.75% Wi210 at 100.00%	0.29 0.22 0.28 0.28 0.29 0.22 0.04 0.18 0.15 0.04 0.02	OK OK OK OK OK OK OK OK	Sec. C5.2
LC1 at 100.00% LC10 at 100.00% LC11 at 100.00% LC12 at 100.00% LC13 at 100.00% LC14 at 100.00% LC2 at 43.75% LC3 at 100.00%	0.22 0.04 0.04 0.06 0.03 0.02 0.25	ок ок ок ок ок ок	Sec. C5.2
LOJ al 100.0070	0.18	OK	

Page9

	LC7 at 100.00% LC8 at 43.75% LC9 at 100.00% W180 at 100.00% W210 at 43.75% Wi180 at 100.00% Wi210 at 43.75%	0.18 0.25 0.07 0.12 0.16 0.02 0.03	OK OK OK OK OK	
273	LC1 at 100.00% LC10 at 50.00% LC11 at 100.00% LC12 at 100.00% LC13 at 100.00% LC14 at 100.00% LC2 at 43.75% LC3 at 100.00% LC4 at 43.75% LC5 at 100.00% LC6 at 43.75% LC7 at 100.00% W180 at 100.00% W180 at 100.00% W1180 at 100.00% W1210 at 43.75%	0.23 0.03 0.08 0.05 0.03 0.27 0.29 0.28 0.23 0.27 0.28 0.23 0.27 0.28 0.23 0.27 0.28 0.24 0.16 0.17 0.04 0.03	ок ок ок ок ок ок ок ок ок ок ок ок	Sec. C5.2 Sec. C5.2
216	LC1 at 28.75% LC10 at 28.75% LC11 at 50.00% LC12 at 28.75% LC13 at 31.25% LC14 at 31.25% LC2 at 28.75% LC3 at 28.75% LC4 at 28.75% LC5 at 28.75% LC6 at 28.75% LC6 at 28.75% LC9 at 50.00% W180 at 28.75% W210 at 28.75% W1180 at 50.00% W1210 at 28.75%	0.47 0.07 0.07 0.07 0.01 0.58 0.47 0.58 0.46 0.46 0.47 0.58 0.47 0.58 0.46 0.46 0.47 0.58 0.47 0.58 0.46 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.5	ок ок ок ок ок ок ок ок ок ок ок ок ок о	Eq. H1-1b
258	LC1 at 28.75% LC10 at 28.75% LC11 at 50.00% LC12 at 28.75% LC13 at 31.25% LC14 at 31.25% LC2 at 28.75% LC3 at 28.75% LC4 at 28.75% LC5 at 28.75% LC6 at 28.75% LC7 at 28.75% LC8 at 28.75% LC9 at 28.75% W180 at 28.75% W180 at 28.75% W180 at 28.75% W180 at 28.75%	0.47 0.07 0.05 0.07 0.01 0.58 0.47 0.58 0.47 0.58 0.47 0.58 0.47 0.58 0.47 0.58 0.05 0.30 0.36 0.05 0.06	ок ок ок ок ок ок ок ок ок ок ок	Eq. H1-1b

PIPE 2-1_2x0.203

267	LC1 at 51.25%	0.15	OK	Eq. H1-1b
201	LC10 at 50.00%	0.13	OK	Eq. 111-10
	LC11 at 51.25%	0.03	OK	
	LC12 at 50.00%	0.03	OK	
	LC13 at 100.00%	0.00	OK	
	LC14 at 100.00%	0.01	OK	
	LC2 at 50.00%	0.26	OK	
	LC3 at 51.25%	0.14	OK	
	LC4 at 50.00%	0.27	OK	Eq. H1-1b
	LC5 at 51.25%	0.15	OK	_4
	LC6 at 50.00%	0.26	OK	
	LC7 at 51.25%	0.14	OK	
	LC8 at 50.00%	0.27	ОК	
	LC9 at 50.00%	0.03	ОК	
	W180 at 51.25%	0.09	OK	
	W210 at 50.00%	0.16	OK	
	Wi180 at 50.00%	0.02	ОК	
	Wi210 at 50.00%	0.03	ОК	
277	LC1 at 100.00%	0.21	ОК	
	LC10 at 100.00%	0.05	OK	
	LC11 at 100.00%	0.04	OK	
	LC12 at 100.00%	0.04	OK	
	LC13 at 50.00%	0.01	OK	
	LC14 at 50.00%	0.01	OK	
	LC2 at 100.00%	0.45	OK	Eq. H1-1b
	LC3 at 100.00%	0.20	OK	
	LC4 at 100.00% LC5 at 100.00%	0.43	OK OK	
	LC6 at 100.00%	0.21 0.45	OK	
	LC7 at 100.00%	0.40	OK	
	LC8 at 100.00%	0.20	OK	
	LC9 at 100.00%	0.05	OK	
	W180 at 100.00%	0.13	OK	
	W210 at 100.00%	0.27	OK	
	Wi180 at 100.00%	0.04	OK	
	Wi210 at 100.00%	0.05	ОК	
278	LC1 at 4.17%	0.28	ОК	
	LC10 at 50.00%	0.04	OK	
	LC11 at 50.00%	0.04	OK	
	LC12 at 0.00%	0.04	OK	
	LC13 at 50.00%	0.01	OK	
	LC14 at 50.00%	0.01	OK	
	LC2 at 0.00%	0.58	OK	
	LC3 at 4.17%	0.29	OK	Eq. H1-1b
	LC4 at 0.00%	0.59	OK	Eq. H3-6
	LC5 at 4.17%	0.28	OK OK	Eq. H1-1b
	LC6 at 0.00% LC7 at 4.17%	0.58 0.29	OK	
	LC8 at 0.00%	0.59	OK	
	LC9 at 4.17%	0.04	OK	
	W180 at 4.17%	0.18	OK	
	W210 at 0.00%	0.10	OK	
	Wi180 at 4.17%	0.03	OK	
	Wi210 at 0.00%	0.03	OK	
279	LC1 at 95.83%	0.30	ОК	Eq. H1-1b
	LC10 at 100.00%	0.04	OK	
	LC11 at 50.00%	0.04	ОК	
	LC12 at 100.00%	0.05	ОК	
	LC13 at 50.00%	0.01	OK	
	LC14 at 50.00%	0.01	OK	

	LC2 at 100.00% LC3 at 95.83% LC4 at 100.00%	0.39 0.30 0.40	ок ок ок	Eg. H1-1b
	LC5 at 95.83%	0.30	OK	Eq. H1-10
	LC6 at 100.00%	0.39	OK	
	LC7 at 95.83%	0.30	OK	
	LC8 at 100.00%	0.40	OK	
	LC9 at 0.00%	0.05	OK	
	W180 at 95.83%	0.19	OK	
	W210 at 100.00%	0.25	OK	
	Wi180 at 0.00%	0.05	OK	
	Wi210 at 100.00%	0.04	OK	
208	LC1 at 28.75%	0.79	ОК	
	LC10 at 28.75%	0.11	OK	
	LC11 at 28.75%	0.09	OK	
	LC12 at 28.75%	0.11	OK	
	LC13 at 30.00%	0.02	OK	
	LC14 at 30.00%	0.01	OK	
	LC2 at 28.75%	0.97	OK	Eq. H1-1b
	LC3 at 28.75%	0.79	OK	
	LC4 at 28.75%	0.97	OK	
	LC5 at 28.75%	0.79	OK	
	LC6 at 28.75%	0.96	OK	
	LC7 at 28.75%	0.79	OK OK	
	LC8 at 28.75% LC9 at 28.75%	0.96	OK	
	W180 at 28.75%	0.09 0.49	OK	
	W210 at 28.75%	0.60	OK	
	Wi180 at 28.75%	0.09	OK	
	Wi210 at 28.75%	0.11	OK	
220	LC1 at 50.00%	0.39	OK	
	LC10 at 50.00%	0.05	OK	
	LC11 at 50.00%	0.06	OK	
	LC12 at 50.00%	0.06	ОК	
	LC13 at 23.44%	0.02	ОК	
	LC14 at 23.44%	0.01	OK	
	LC2 at 50.00%	0.52	OK	
	LC3 at 50.00%	0.38	OK	
	LC4 at 50.00%	0.55	ОК	Eq. H1-1b
	LC5 at 50.00%	0.38	OK	
	LC6 at 50.00%	0.52	OK	Eq. H1-1b
	LC7 at 50.00%	0.38	OK	
	LC8 at 50.00%	0.55	OK	
	LC9 at 50.00%	0.06	OK	
	W180 at 50.00%	0.24	OK	
	W210 at 50.00%	0.34	OK	
	Wi180 at 50.00% Wi210 at 50.00%	0.06 0.06	OK OK	
255	 LC1 at 28.75%	0.79	OK	
200	LC10 at 28.75%	0.19	OK	
	LC11 at 28.75%	0.09	OK	
	LC12 at 28.75%	0.11	OK	
	LC13 at 30.00%	0.02	OK	
	LC14 at 30.00%	0.01	OK	
	LC2 at 28.75%	0.97	ОК	Eg. H1-1b
	LC3 at 28.75%	0.79	OK	• • • • • • • • • • • •
	LC4 at 28.75%	0.97	OK	
	LC5 at 28.75%	0.79	ОК	
	LC6 at 28.75%	0.96	OK	
	LC7 at 28.75%	0.79	OK	
	LC8 at 28.75%	0.96	OK	

PIPE 2x0.154

Page12

LC9 at 28.75% W180 at 28.75% W210 at 28.75% Wi180 at 28.75% Wi210 at 28.75%	0.09 0.49 0.60 0.09 0.11	OK OK OK OK	
LC1 at 50.00%	0.43	ок	Eq. H1-1b
LC10 at 50.00%	0.04	OK	
LC11 at 50.00%	0.05	OK	
LC12 at 50.00%	0.04	OK	
LC13 at 23.75%	0.01	OK	
LC14 at 23.75%	0.01	OK	
LC2 at 50.00%	0.40	OK	
LC3 at 50.00%	0.41	OK	Eq. H1-1b
LC4 at 50.00%	0.38	OK	
LC5 at 50.00%	0.43	OK OK	
LC6 at 50.00% LC7 at 50.00%	0.40 0.41	OK	
LC8 at 50.00%		OK	
LC9 at 50.00%	0.38 0.05	OK	
W180 at 50.00%	0.05	OK	
W210 at 50.00%	0.20	OK	
Wi180 at 50.00%	0.24	OK	
Wi210 at 50.00%	0.04	OK	
	0.20		
LC1 at 50.00% LC10 at 50.00%	0.29 0.03	OK OK	
LC11 at 50.00%	0.05	OK	
LC12 at 50.00%	0.03	OK	
LC12 at 23.75%	0.03	OK	
LC14 at 23.75%	0.01	OK	
LC2 at 50.00%	0.28	OK	
LC3 at 50.00%	0.32	OK	Eg. H1-1b
LC4 at 50.00%	0.29	OK	Eq. (1) 15
LC5 at 50.00%	0.30	OK	Eq. H1-1b
LC6 at 50.00%	0.28	OK	
LC7 at 50.00%	0.32	OK	
LC8 at 50.00%	0.29	OK	
LC9 at 51.25%	0.04	ОК	
W180 at 50.00%	0.20	OK	
W210 at 50.00%	0.17	ОК	Eg. H1-1b
Wi180 at 50.00%	0.04	ОК	·
Wi210 at 50.00%	0.03	OK	
LC1 at 51.25%	0.33	OK	
LC10 at 50.00%	0.03	OK	Eq. H1-1b
LC11 at 22.50%	0.09	OK	·
LC12 at 50.00%	0.03	OK	
LC13 at 23.75%	0.01	OK	
LC14 at 23.75%	0.01	OK	
LC2 at 50.00%	0.31	ОК	Eq. H1-1b
LC3 at 51.25%	0.35	ОК	Eq. H1-1b
LC4 at 50.00%	0.30	ОК	
LC5 at 51.25%	0.33	ОК	Eq. H1-1b
LC6 at 50.00%	0.31	ОК	
LC7 at 51.25%	0.35	ОК	
LC8 at 50.00%	0.30	OK	Eq. H1-1b
LC9 at 22.50%	0.09	ОК	
W180 at 51.25%	0.22	ОК	
W210 at 50.00%	0.19	OK	
Wi180 at 22.50%	0.09	OK	
Wi210 at 50.00%	0.03	OK	
LC1 at 18.75%	0.16	ОК	***************************************

at 100.00% 0.03 at 18.75% 0.01 at 100.00% 0.01 at 100.00% 0.01 100.00% 0.15 100.00% 0.18 100.00% 0.13 18.75% 0.16 100.00% 0.13 100.00% 0.14 100.00% 0.13 100.00% 0.14 100.00% 0.13 100.00% 0.14 100.00% 0.13 100.00% 0.14 100.00% 0.01 at 18.75% 0.11 at 100.00% 0.09 at 18.75% 0.02	ок ок ок ок ок ок ок ок ок	Eq. H1-1b Eq. H1-1b Eq. H1-1b
at 100.00% 0.04 at 100.00% 0.03 at 100.00% 0.02 at 100.00% 0.01 at 100.00% 0.01	ОК ОК ОК ОК ОК	Eq. H1-1b Eq. H1-1b
18.75% 0.17 100.00% 0.20 18.75% 0.18 100.00% 0.22 18.75% 0.17	ОК ОК ОК ОК	Eq. H1-10
100.00%0.02at 18.75%0.11at 100.00%0.13at 18.75%0.02	ок ок ок ок ок	Eq. H1-1b
t 100.00% 0.03 t 100.00% 0.02 t 100.00% 0.03 t 100.00% 0.03 t 100.00% 0.01	OK OK OK OK OK	Eq. H1-1b
18.75% 0.24 100.00% 0.11 18.75% 0.22 100.00% 0.15 18.75% 0.24	ок ок ок ок ок	Eq. H1-1b
18.75% 0.22 100.00% 0.03 at 100.00% 0.08 at 18.75% 0.14 at 100.00% 0.01	ок ок ок ок ок	Eq. H1-1b
t 100.00% 0.04 t 20.31% 0.01 t 100.00% 0.03 t 100.00% 0.02 t 100.00% 0.01 18.75% 0.21	ОК ОК ОК ОК ОК ОК	Eq. H1-1b
	at 100.00% 0.03 at 18.75% 0.01 at 100.00% 0.01 at 100.00% 0.15 100.00% 0.13 100.00% 0.13 100.00% 0.13 100.00% 0.14 100.00% 0.13 100.00% 0.14 100.00% 0.13 100.00% 0.01 at 100.00% 0.01 at 100.00% 0.02 at 100.00% 0.02 at 100.00% 0.02 th 100.00% 0.22 18.75% 0.17 100.00% 0.22 18.75% 0.17 100.00% 0.22 18.75% 0.17 100.00% 0.22 18.75% 0.11 at 100.00% 0.22 100.00% 0.22 100.00% 0.02 100.00% 0.03	at 100.00% 0.03 OK at 18.75% 0.01 OK at 100.00% 0.01 OK at 100.00% 0.15 OK 100.00% 0.13 OK 100.00% 0.14 OK 100.00% 0.13 OK 100.00% 0.14 OK 100.00% 0.13 OK 100.00% 0.11 OK 100.00% 0.13 OK 100.00% 0.01 OK 100.00% 0.09 OK at 100.00% 0.09 OK at 18.75% 0.18 OK 100.00% 0.02 OK at 100.00% 0.01 OK 1100.00% 0.02 OK 1100.00% 0.01 OK 100.00% 0.20 OK 18.75% 0.17 OK 100.00% 0.20 OK 18.75% 0.17 OK 100.00% 0.20 OK 18.75% 0.17 OK <

Page14

	LC4 at 18.75% LC5 at 100.00% LC6 at 18.75% LC7 at 100.00% LC8 at 18.75% LC9 at 100.00% W180 at 100.00% W210 at 18.75% Wi180 at 100.00% Wi210 at 18.75%	0.23 0.19 0.21 0.15 0.23 0.05 0.10 0.14 0.02 0.02	ОК ОК ОК ОК ОК ОК ОК	Eq. H1-1b Eq. H1-1b
334	LC1 at 18.75% LC10 at 100.00% LC11 at 100.00% LC12 at 100.00% LC13 at 100.00% LC14 at 100.00% LC2 at 100.00% LC3 at 18.75% LC4 at 100.00% LC5 at 18.75%	0.17 0.02 0.04 0.03 0.01 0.01 0.17 0.15 0.19 0.17	ОК ОК ОК ОК ОК ОК ОК ОК ОК	Eq. H1-1b Eq. H1-1b
	LC6 at 100.00% LC7 at 18.75% LC8 at 100.00% LC9 at 18.75% W180 at 18.75% W210 at 100.00% Wi180 at 18.75% Wi210 at 100.00%	0.17 0.15 0.19 0.03 0.10 0.11 0.03 0.01	ок ок ок ок ок ок ок	Eq. H1-1b
335	LC1 at 100.00% LC10 at 100.00% LC11 at 100.00% LC12 at 100.00% LC13 at 100.00% LC2 at 100.00% LC2 at 100.00% LC3 at 100.00% LC4 at 100.00% LC5 at 100.00% LC6 at 100.00% LC7 at 100.00% W180 at 100.00% W180 at 100.00% W180 at 100.00% W180 at 100.00%	0.15 0.02 0.04 0.02 0.01 0.14 0.19 0.18 0.16 0.15 0.19 0.17 0.04 0.11 0.10 0.02 0.01	ок ок ок ок ок ок ок ок ок ок ок ок ок о	Eq. H1-1b Eq. H1-1b Eq. H1-1b
3	LC1 at 20.83% LC10 at 85.42% LC11 at 18.75% LC12 at 85.42% LC13 at 85.42% LC14 at 85.42% LC2 at 85.42% LC3 at 18.75% LC4 at 85.42% LC5 at 18.75% LC6 at 85.42% LC7 at 18.75% LC8 at 85.42% LC9 at 20.83% W180 at 18.75%	0.38 0.05 0.08 0.03 0.02 0.22 0.42 0.14 0.37 0.21 0.42 0.15 0.07 0.25	ОК ОК ОК ОК ОК ОК ОК ОК ОК ОК ОК ОК	Eq. H1-1b Eq. H1-1b Eq. H1-1b

STube 1x1x1/8

W210 at 85.42%	0.11	OK	
Wi180 at 18.75%	0.05	OK	
Wi210 at 85.42%	0.02	OK	
wiz 10 at 00.42 /0	0.02		
LC1 at 20.83%	0.33	ок	Eq. H1-1b
LC10 at 85.42%	0.02	OK	
		OK	
LC11 at 18.75%	0.06		
LC12 at 100.00%	0.05	OK	
LC13 at 100.00%	0.02	OK	
LC14 at 100.00%	0.02	OK	
LC2 at 18.75%	0.13	OK	
LC3 at 18.75%	0.34	OK	Eg. H1-1b
LC4 at 100.00%	0.17	OK	Eq. (11 12
LC5 at 20.83%	0.33	OK	
LC6 at 18.75%	0.14	OK	
LC7 at 20.83%	0.34	OK	Eq. H1-1b
LC8 at 18.75%	0.16	OK	
LC9 at 20.83%	0.05	OK	
W180 at 20.83%	0.21	OK	
W210 at 18.75%	0.10	OK	
Wi180 at 20.83%	0.05	OK	
Wi210 at 18.75%	0.01	OK	
LC1 at 18.75%	0.42	OK	Eq. H1-1b
			Eq. 11-10
LC10 at 18.75%	0.08	OK	
LC11 at 20.83%	0.04	OK	
LC12 at 20.83%	0.07	OK	
LC13 at 85.42%	0.03	OK	
LC14 at 85.42%	0.02	OK	
LC2 at 18.75%	0.42	ОK	Eq. H1-1b
LC3 at 18.75%	0.37	OK	
		OK	Ea 41 16
LC4 at 20.83%	0.43		Eq. H1-1b
LC5 at 18.75%	0.41	OK	
LC6 at 20.83%	0.41	OK	
LC7 at 18.75%	0.38	OK	
LC8 at 20.83%	0.43	ОК	
LC9 at 18.75%	0.09	OK	
W180 at 18.75%	0.25	OK	
W210 at 20.83%	0.26	OK	
Wi180 at 18.75%	0.05	OK	
Wi210 at 20.83%	0.04	OK	
	0.24	01/	
LC1 at 83.33%	0.21	OK	
LC10 at 18.75%	0.07	OK	
LC11 at 100.00%	0.04	OK	Eq. H1-1b
LC12 at 20.83%	0.03	OK	
LC13 at 100.00%	0.02	OK	
LC14 at 100.00%	0.02	OK	
LC2 at 18.75%		OK	Eg. H1-1b
	0.53		⊂q. ⊓ I-ID
LC3 at 83.33%	0.20	OK	
LC4 at 18.75%	0.50	OK	
LC5 at 83.33%	0.21	OK	
LC6 at 18.75%	0.53	OK	
LC7 at 83.33%	0.20	OK	
LC8 at 18.75%	0.51	OK	
LC9 at 100.00%	0.04	OK	
W180 at 83.33%	0.13	OK	
W210 at 18.75%	0.32	OK	
Wi180 at 83.33%	0.02	OK	
Wi210 at 18.75%	0.02	OK	
LC1 at 20.31%	0.11	OK	
LC10 at 18.75%	0.02	ОК	
LC11 at 84.38%	0.03	ОК	

LC12 at 100.00% LC13 at 100.00% LC14 at 100.00% LC2 at 18.75% LC3 at 20.31% LC4 at 18.75%	0.02 0.01 0.01 0.17 0.18 0.20	ок ок ок ок ок	Eq. H1-1b
LC5 at 20.31% LC6 at 18.75% LC7 at 20.31% LC8 at 18.75%	0.11 0.17 0.18 0.20	ок ок ок ок	Eq. H1-1b
LC9 at 20.31% W180 at 20.31%	0.01	OK	
W180 at 20.31 %	0.11 0.13	OK OK	
Wi180 at 20.31%	0.02	OK	
Wi210 at 18.75%	0.02	ОК	
LC1 at 66.67%	0.66	With warnings	
LC10 at 0.00%	0.07	With warnings	
LC11 at 100.00% LC12 at 35.42%	0.08 0.15	With warnings With warnings	
LC13 at 35.42%	0.13	With warnings	
LC14 at 35.42%	0.05	With warnings	
LC2 at 100.00%	0.44	With warnings	
LC3 at 0.00%	0.64	With warnings	
LC4 at 64.58%	0.78	With warnings	Eq. H1-1a
LC5 at 66.67%	0.69	With warnings	Eq. H1-1a
LC6 at 100.00%	0.46	With warnings	
LC7 at 0.00%	0.66	With warnings	Eq. H1-1a
LC8 at 64.58%	0.76	With warnings	
LC9 at 35.42% W180 at 33.33%	0.15 0.48	With warnings	
W180 at 53.55 %	0.48	With warnings With warnings	Eq. H1-1a
Wi180 at 0.00%	0.11	With warnings	ц. 111-18
Wi210 at 35.42%	0.06	With warnings	
LC1 at 20.83%	0.23	OK	
LC10 at 20.83%	0.06	ОК	
LC11 at 85.42%	0.06	OK	Eq. H1-1b
LC12 at 18.75%	0.08	OK	
	0.03	OK	
LC13 at 85.42%			
LC13 at 85.42% LC14 at 85.42%	0.02	OK	
LC13 at 85.42% LC14 at 85.42% LC2 at 18.75%	0.02 0.48	ОК	
LC13 at 85.42% LC14 at 85.42% LC2 at 18.75% LC3 at 20.83%	0.02 0.48 0.25	OK OK	Ea H1-1b
LC13 at 85.42% LC14 at 85.42% LC2 at 18.75% LC3 at 20.83% LC4 at 18.75%	0.02 0.48 0.25 0.53	ок ок ок	Eq. H1-1b
LC13 at 85.42% LC14 at 85.42% LC2 at 18.75% LC3 at 20.83% LC4 at 18.75% LC5 at 20.83%	0.02 0.48 0.25	OK OK	Eq. H1-1b
LC13 at 85.42% LC14 at 85.42% LC2 at 18.75% LC3 at 20.83% LC4 at 18.75%	0.02 0.48 0.25 0.53 0.24	ок ок ок ок	Eq. H1-1b
LC13 at 85.42% LC14 at 85.42% LC2 at 18.75% LC3 at 20.83% LC4 at 18.75% LC5 at 20.83% LC6 at 18.75%	0.02 0.48 0.25 0.53 0.24 0.48	ок ок ок ок ок	Eq. H1-1b
LC13 at 85.42% LC14 at 85.42% LC2 at 18.75% LC3 at 20.83% LC4 at 18.75% LC5 at 20.83% LC6 at 18.75% LC7 at 20.83%	0.02 0.48 0.25 0.53 0.24 0.48 0.25	ок ок ок ок ок	Eq. H1-1b
LC13 at 85.42% LC14 at 85.42% LC2 at 18.75% LC3 at 20.83% LC4 at 18.75% LC5 at 20.83% LC6 at 18.75% LC7 at 20.83% LC8 at 18.75% LC9 at 18.75% W180 at 20.83%	0.02 0.48 0.25 0.53 0.24 0.48 0.25 0.52 0.52 0.04 0.15	ок ок ок ок ок ок ок	Eq. H1-1b
LC13 at 85.42% LC14 at 85.42% LC2 at 18.75% LC3 at 20.83% LC4 at 18.75% LC5 at 20.83% LC6 at 18.75% LC7 at 20.83% LC8 at 18.75% UC9 at 18.75% W180 at 20.83% W210 at 18.75%	0.02 0.48 0.25 0.53 0.24 0.48 0.25 0.52 0.52 0.04 0.15 0.32	ок ок ок ок ок ок ок ок	Eq. H1-1b
LC13 at 85.42% LC14 at 85.42% LC2 at 18.75% LC3 at 20.83% LC4 at 18.75% LC5 at 20.83% LC6 at 18.75% LC7 at 20.83% LC8 at 18.75% LC9 at 18.75% W180 at 20.83% W210 at 18.75%	0.02 0.48 0.25 0.53 0.24 0.48 0.25 0.52 0.04 0.15 0.32 0.04	ок ок ок ок ок ок ок ок	Eq. H1-1b
LC13 at 85.42% LC14 at 85.42% LC2 at 18.75% LC3 at 20.83% LC4 at 18.75% LC5 at 20.83% LC6 at 18.75% LC7 at 20.83% LC8 at 18.75% UC9 at 18.75% W180 at 20.83% W210 at 18.75%	0.02 0.48 0.25 0.53 0.24 0.48 0.25 0.52 0.52 0.04 0.15 0.32	ок ок ок ок ок ок ок ок	Eq. H1-1b
LC13 at 85.42% LC14 at 85.42% LC2 at 18.75% LC3 at 20.83% LC4 at 18.75% LC5 at 20.83% LC6 at 18.75% LC7 at 20.83% LC8 at 18.75% W180 at 20.83% W210 at 18.75% W180 at 20.83% W1210 at 18.75% LC1 at 18.75%	0.02 0.48 0.25 0.53 0.24 0.48 0.25 0.52 0.04 0.15 0.32 0.04 0.05	ОК ОК ОК ОК ОК ОК ОК ОК ОК ОК	Eq. H1-1b
LC13 at 85.42% LC14 at 85.42% LC2 at 18.75% LC3 at 20.83% LC4 at 18.75% LC5 at 20.83% LC6 at 18.75% LC7 at 20.83% LC8 at 18.75% LC9 at 18.75% W180 at 20.83% W210 at 18.75% W180 at 20.83% W1210 at 18.75% LC1 at 18.75% LC1 at 85.42%	0.02 0.48 0.25 0.53 0.24 0.48 0.25 0.52 0.04 0.15 0.32 0.04 0.05	ОК ОК ОК ОК ОК ОК ОК ОК ОК ОК	Eq. H1-1b
LC13 at 85.42% LC14 at 85.42% LC2 at 18.75% LC3 at 20.83% LC4 at 18.75% LC5 at 20.83% LC6 at 18.75% LC7 at 20.83% LC8 at 18.75% LC9 at 18.75% W180 at 20.83% W210 at 18.75% W180 at 20.83% W1210 at 18.75% LC1 at 18.75% LC1 at 85.42% LC1 at 83.33%	0.02 0.48 0.25 0.53 0.24 0.48 0.25 0.52 0.04 0.15 0.32 0.04 0.05	ОК ОК ОК ОК ОК ОК ОК ОК ОК ОК	Eq. H1-1b
LC13 at 85.42% LC14 at 85.42% LC2 at 18.75% LC3 at 20.83% LC4 at 18.75% LC5 at 20.83% LC6 at 18.75% LC7 at 20.83% LC8 at 18.75% LC9 at 18.75% W180 at 20.83% W210 at 18.75% W180 at 20.83% W1210 at 18.75% LC1 at 18.75% LC1 at 18.75% LC10 at 85.42% LC11 at 83.33% LC12 at 18.75%	0.02 0.48 0.25 0.53 0.24 0.48 0.25 0.52 0.04 0.15 0.32 0.04 0.05	ОК ОК ОК ОК ОК ОК ОК ОК ОК ОК ОК	Eq. H1-1b
LC13 at 85.42% LC14 at 85.42% LC2 at 18.75% LC3 at 20.83% LC4 at 18.75% LC5 at 20.83% LC6 at 18.75% LC7 at 20.83% LC8 at 18.75% LC9 at 18.75% W180 at 20.83% W210 at 18.75% W180 at 20.83% W1210 at 18.75% LC1 at 18.75% LC1 at 18.75% LC1 at 85.42% LC11 at 83.33% LC12 at 18.75% LC13 at 100.00%	0.02 0.48 0.25 0.53 0.24 0.48 0.25 0.52 0.04 0.15 0.32 0.04 0.05 0.31 0.04 0.03 0.05 0.02	ОК ОК ОК ОК ОК ОК ОК ОК ОК ОК ОК ОК	Eq. H1-1b
LC13 at 85.42% LC14 at 85.42% LC2 at 18.75% LC3 at 20.83% LC4 at 18.75% LC5 at 20.83% LC6 at 18.75% LC7 at 20.83% LC8 at 18.75% LC9 at 18.75% W180 at 20.83% W210 at 18.75% W180 at 20.83% W1210 at 18.75% LC1 at 18.75% LC1 at 18.75% LC1 at 85.42% LC11 at 83.33% LC12 at 18.75% LC13 at 100.00% LC14 at 100.00%	0.02 0.48 0.25 0.53 0.24 0.48 0.25 0.52 0.04 0.15 0.32 0.04 0.05 0.31 0.04 0.03 0.05 0.02 0.02	ОК ОК ОК ОК ОК ОК ОК ОК ОК ОК ОК ОК ОК О	
LC13 at 85.42% LC14 at 85.42% LC2 at 18.75% LC3 at 20.83% LC4 at 18.75% LC5 at 20.83% LC6 at 18.75% LC7 at 20.83% LC8 at 18.75% LC9 at 18.75% W180 at 20.83% W210 at 18.75% W180 at 20.83% W1210 at 18.75% LC1 at 18.75% LC1 at 18.75% LC1 at 85.42% LC11 at 83.33% LC12 at 18.75% LC13 at 100.00%	0.02 0.48 0.25 0.53 0.24 0.48 0.25 0.52 0.04 0.15 0.32 0.04 0.05 0.31 0.04 0.03 0.05 0.02	ОК ОК ОК ОК ОК ОК ОК ОК ОК ОК ОК ОК	Eq. H1-1b Eq. H1-1b
LC13 at 85.42% LC14 at 85.42% LC2 at 18.75% LC3 at 20.83% LC4 at 18.75% LC5 at 20.83% LC6 at 18.75% LC7 at 20.83% LC8 at 18.75% LC9 at 18.75% W180 at 20.83% W210 at 18.75% W180 at 20.83% W1210 at 18.75% LC1 at 18.75% LC1 at 18.75% LC1 at 85.42% LC11 at 83.33% LC12 at 18.75% LC13 at 100.00% LC14 at 100.00% LC2 at 20.83%	0.02 0.48 0.25 0.53 0.24 0.48 0.25 0.52 0.04 0.15 0.32 0.04 0.05 0.31 0.04 0.03 0.05 0.02 0.02 0.02 0.37	ОК ОК ОК ОК ОК ОК ОК ОК ОК ОК ОК ОК ОК О	
LC13 at 85.42% LC14 at 85.42% LC2 at 18.75% LC3 at 20.83% LC4 at 18.75% LC5 at 20.83% LC6 at 18.75% LC7 at 20.83% LC8 at 18.75% W180 at 20.83% W210 at 18.75% W180 at 20.83% W210 at 18.75% LC1 at 18.75% LC1 at 18.75% LC1 at 85.42% LC11 at 83.33% LC12 at 18.75% LC13 at 100.00% LC14 at 100.00% LC2 at 20.83% LC3 at 18.75%	0.02 0.48 0.25 0.53 0.24 0.48 0.25 0.52 0.04 0.15 0.32 0.04 0.05 0.31 0.04 0.03 0.05 0.02 0.02 0.02 0.37 0.29	ОК ОК ОК ОК ОК ОК ОК ОК ОК ОК ОК ОК ОК О	

LC6 at 20.83% LC7 at 18.75% LC8 at 20.83% LC9 at 100.00% W180 at 18.75% W210 at 20.83% Wi180 at 18.75% Wi210 at 20.83%	0.37 0.29 0.38 0.06 0.19 0.24 0.04 0.04	ок ок ок ок ок ок ок	Eq. H1-1b Eq. H1-1b
LC1 at 14.06% LC10 at 0.00% LC11 at 15.63% LC12 at 81.25% LC13 at 0.00% LC2 at 81.25% LC3 at 15.63% LC4 at 81.25% LC5 at 14.06% LC6 at 81.25% LC7 at 15.63% LC8 at 81.25% LC9 at 100.00% W180 at 79.69% W210 at 81.25%	0.12 0.02 0.03 0.02 0.01 0.00 0.20 0.18 0.17 0.12 0.20 0.18 0.17 0.03 0.11 0.03 0.11 0.02 0.01	ОК ОК ОК ОК ОК ОК ОК ОК ОК ОК ОК ОК	Sec. E1 Eq. H1-1b Eq. H1-1b Eq. H1-1b
LC1 at 0.00% LC10 at 84.38% LC11 at 0.00% LC12 at 20.31% LC13 at 100.00% LC14 at 100.00% LC2 at 20.31% LC3 at 0.00% LC4 at 20.31% LC5 at 0.00% LC6 at 20.31% LC7 at 0.00% UC8 at 20.31% LC9 at 0.00% W180 at 0.00% W210 at 20.31% Wi180 at 0.00%	0.12 0.02 0.02 0.01 0.00 0.39 0.13 0.20 0.12 0.39 0.13 0.20 0.02 0.02 0.08 0.13 0.02 0.02	ок ок ок ок ок ок ок ок ок ок ок ок ок о	Eq. H1-1b Eq. H1-1a
LC1 at 66.67% LC10 at 0.00% LC11 at 35.42% LC12 at 66.67% LC13 at 35.42% LC14 at 35.42% LC2 at 33.33% LC3 at 33.33% LC4 at 66.67% LC5 at 66.67% LC6 at 33.33% LC7 at 33.33% LC8 at 66.67% W180 at 33.33% W210 at 66.67% W180 at 0.00%	0.44 0.08 0.07 0.04 0.03 0.41 0.42 0.45 0.43 0.43 0.40 0.41 0.44 0.08 0.24 0.19 0.03	With warnings With warnings	Eq. H1-1a Eq. H1-1a

Wi210 at 66.67%	0.02	With warnings	
LC1 at 100.00%	0.65	With warnings	
LC10 at 35.42%	0.15	With warnings	
LC11 at 100.00%	0.07	With warnings	
LC12 at 0.00%	0.07	With warnings	
LC13 at 100.00%	0.07	With warnings	
LC14 at 100.00%	0.05	With warnings	
LC2 at 64.58%	0.84	With warnings	Eq. H1-1a
LC3 at 0.00%	0.64	With warnings	
LC4 at 100.00%	0.50	With warnings	
LC5 at 66.67%	0.67	With warnings	Eq. H1-1a
LC6 at 64.58%	0.82	With warnings	
LC7 at 0.00%	0.66	With warnings	Eq. H1-1a
LC8 at 100.00%	0.53	With warnings	
LC9 at 35.42%	0.12	With warnings	
W180 at 33.33%	0.47	With warnings	
W210 at 66.67%	0.41	With warnings	Eq. H1-1a
Wi180 at 0.00%	0.08	With warnings	
Wi210 at 66.67%	0.05	With warnings	
LC1 at 18.75%	0.11	OK	
LC10 at 0.00%	0.03	OK	
LC11 at 100.00%	0.02	OK	
LC12 at 20.31%	0.03	OK	
LC13 at 100.00%	0.01	OK	
LC14 at 100.00%	0.01	OK	
LC2 at 20.31%	0.21	OK	
LC3 at 100.00%	0.12	OK	
LC4 at 20.31%	0.40	OK	Eq. H1-1a
LC5 at 18.75%	0.11	OK	
LC6 at 20.31%	0.22	OK	Eq. H1-1b
LC7 at 100.00%	0.12	OK	
LC8 at 20.31%	0.40	OK	
LC9 at 0.00%	0.02	OK	
W180 at 18.75%	0.07	OK	
W210 at 20.31%	0.19	OK	
Wi180 at 18.75%	0.01	OK	
Wi210 at 20.31%	0.03	OK	*******
LC1 at 100.00%	0.11	With warnings	Eq. H1-1b
LC10 at 35.42%	0.09	With warnings	
LC11 at 35.42%	0.18	With warnings	
LC12 at 64.58%	0.09	With warnings	
LC13 at 64.58%	0.07 0.05	With warnings With warnings	
		word wardings	
LC2 at 100.00%	0.66	With warnings	
LC2 at 100.00% LC3 at 35.42%	0.66 0.83	With warnings With warnings	Eq. H1-1a
LC2 at 100.00% LC3 at 35.42% LC4 at 0.00%	0.66 0.83 0.72	With warnings With warnings With warnings	Eq. H1-1a
LC2 at 100.00% LC3 at 35.42% LC4 at 0.00% LC5 at 100.00%	0.66 0.83 0.72 0.09	With warnings With warnings With warnings With warnings	
LC2 at 100.00% LC3 at 35.42% LC4 at 0.00% LC5 at 100.00% LC6 at 100.00%	0.66 0.83 0.72 0.09 0.69	With warnings With warnings With warnings With warnings With warnings	Eq. H1-1a Eq. H1-1a
LC2 at 100.00% LC3 at 35.42% LC4 at 0.00% LC5 at 100.00% LC6 at 100.00% LC7 at 35.42%	0.66 0.83 0.72 0.09 0.69 0.81	With warnings With warnings With warnings With warnings With warnings With warnings	Eq. H1-1a
LC2 at 100.00% LC3 at 35.42% LC4 at 0.00% LC5 at 100.00% LC6 at 100.00% LC7 at 35.42% LC8 at 0.00%	0.66 0.83 0.72 0.09 0.69 0.81 0.74	With warnings With warnings With warnings With warnings With warnings With warnings With warnings	
LC2 at 100.00% LC3 at 35.42% LC4 at 0.00% LC5 at 100.00% LC6 at 100.00% LC7 at 35.42% LC8 at 0.00% LC9 at 100.00%	0.66 0.83 0.72 0.09 0.69 0.81 0.74 0.08	With warnings With warnings With warnings With warnings With warnings With warnings With warnings With warnings	Eq. H1-1a Eq. H1-1a
LC2 at 100.00% LC3 at 35.42% LC4 at 0.00% LC5 at 100.00% LC6 at 100.00% LC7 at 35.42% LC8 at 0.00% LC9 at 100.00% W180 at 64.58%	0.66 0.83 0.72 0.09 0.69 0.81 0.74 0.08 0.48	With warnings With warnings With warnings With warnings With warnings With warnings With warnings With warnings With warnings	Eq. H1-1a
LC2 at 100.00% LC3 at 35.42% LC4 at 0.00% LC5 at 100.00% LC6 at 100.00% LC7 at 35.42% LC8 at 0.00% LC9 at 100.00% W180 at 64.58% W210 at 33.33%	0.66 0.83 0.72 0.09 0.69 0.81 0.74 0.08 0.48 0.51	With warnings With warnings With warnings With warnings With warnings With warnings With warnings With warnings With warnings With warnings	Eq. H1-1a Eq. H1-1a
LC2 at 100.00% LC3 at 35.42% LC4 at 0.00% LC5 at 100.00% LC6 at 100.00% LC7 at 35.42% LC8 at 0.00% LC9 at 100.00% W180 at 64.58% W210 at 33.33% Wi180 at 35.42%	0.66 0.83 0.72 0.09 0.69 0.81 0.74 0.08 0.48	With warnings With warnings With warnings With warnings With warnings With warnings With warnings With warnings With warnings	Eq. H1-1a Eq. H1-1a
LC2 at 100.00% LC3 at 35.42% LC4 at 0.00% LC5 at 100.00% LC6 at 100.00% LC7 at 35.42% LC8 at 0.00% LC9 at 100.00% W180 at 64.58% W210 at 33.33% W180 at 35.42% W1210 at 0.00%	0.66 0.83 0.72 0.09 0.69 0.81 0.74 0.08 0.48 0.51 0.09 0.07	With warnings With warnings	Eq. H1-1a Eq. H1-1a Eq. H1-1a
LC2 at 100.00% LC3 at 35.42% LC4 at 0.00% LC5 at 100.00% LC6 at 100.00% LC7 at 35.42% LC8 at 0.00% LC9 at 100.00% W180 at 64.58% W210 at 33.33% W180 at 35.42% W1210 at 0.00%	0.66 0.83 0.72 0.09 0.69 0.81 0.74 0.08 0.48 0.51 0.09 0.07	With warnings With warnings	Eq. H1-1a Eq. H1-1a
LC2 at 100.00% LC3 at 35.42% LC4 at 0.00% LC5 at 100.00% LC6 at 100.00% LC7 at 35.42% LC8 at 0.00% LC9 at 100.00% W180 at 64.58% W210 at 33.33% W180 at 35.42% W1210 at 0.00%	0.66 0.83 0.72 0.09 0.69 0.81 0.74 0.08 0.48 0.51 0.09 0.07 0.40 0.07	With warnings With warnings	Eq. H1-1a Eq. H1-1a Eq. H1-1a
LC14 at 64.58% LC2 at 100.00% LC3 at 35.42% LC4 at 0.00% LC5 at 100.00% LC6 at 100.00% LC7 at 35.42% LC8 at 0.00% W180 at 64.58% W210 at 33.33% W180 at 35.42% Wi210 at 0.00% 	0.66 0.83 0.72 0.09 0.69 0.81 0.74 0.08 0.48 0.51 0.09 0.07	With warnings With warnings	Eq. H1-1a Eq. H1-1a Eq. H1-1a

Page19

LC14 at 35.42%	0.05	With warnings	
		0	
LC2 at 100.00%	0.34	With warnings	Eq. H1-1a
LC3 at 33.33%	0.10	With warnings	
LC4 at 0.00%	0.46	With warnings	Eq. H1-1a
LC5 at 64.58%	0.38	With warnings	
LC6 at 100.00%	0.33	With warnings	
LC7 at 33.33%	0.10	With warnings	
		•	
LC8 at 0.00%	0.45	With warnings	
LC9 at 35.42%	0.12	With warnings	
W180 at 33.33%	0.06	With warnings	
W210 at 0.00%	0.26	With warnings	
Wi180 at 100.00%	0.02	With warnings	
Wi210 at 0.00%	0.04	With warnings	
LC1 at 20.31%	0.26	OK	Eg. H1-1b
			Lq. 111-10
LC10 at 84.38%	0.02	OK	
LC11 at 18.75%	0.02	OK	
LC12 at 85.94%	0.01	OK	
LC13 at 100.00%	0.01	OK	
LC14 at 100.00%	0.01	OK	
LC2 at 84.38%	0.11	OK	
LC3 at 18.75%	0.20	OK	
LC4 at 18.75%	0.07	OK	
LC5 at 20.31%	0.26	OK	
LC6 at 84.38%	0.11	OK	
LC7 at 18.75%	0.20	ОК	Eq. H1-1b
LC8 at 18.75%	0.07	OK	
LC9 at 18.75%	0.03	OK	
		OK	
W180 at 18.75%	0.12		
W210 at 18.75%	0.04	OK	
Wi180 at 18.75%	0.02	OK	
Wi210 at 18.75%	0.01	OK	
LC1 at 20.31%	0.37	ок	Eq. H1-1a
LC10 at 100.00%	0.01	OK	Eq. H1-2
LC11 at 18.75%	0.03	OK	
LC12 at 84.38%	0.02	OK	
LC13 at 84.38%	0.01	OK	
LC14 at 84.38%	0.01	OK	
LC2 at 85.94%	0.09	ОК	
LC3 at 20.31%	0.21	OK	
LC4 at 84.38%	0.12	OK	
LC5 at 20.31%	0.37	OK	
LC6 at 85.94%	0.09	OK	
LC7 at 20.31%	0.21	OK	Eq. H1-1b
_C8 at 84.38%	0.11	OK	
_C9 at 84.38%	0.04	OK	
al 04.30%			
N/400 100 040/	0.13	OK	
W180 at 20.31%			
W180 at 20.31% W210 at 84.38%	0.07	OK	
W210 at 84.38%	0.07	OK	
W210 at 84.38% Wi180 at 20.31% Wi210 at 50.00%	0.07 0.02 0.01	OK OK OK	
W210 at 84.38% Wi180 at 20.31% Wi210 at 50.00%	0.07 0.02 0.01 0.13	OK OK OK	
W210 at 84.38% Wi180 at 20.31% Wi210 at 50.00%	0.07 0.02 0.01	OK OK OK	
W210 at 84.38% Wi180 at 20.31% Wi210 at 50.00%	0.07 0.02 0.01 0.13	ок ок ок ок	
W210 at 84.38% Wi180 at 20.31% Wi210 at 50.00% 	0.07 0.02 0.01 0.13 0.12 0.12	ок ок ок ок ок ок	
W210 at 84.38% Wi180 at 20.31% Wi210 at 50.00% 	0.07 0.02 0.01 0.13 0.12 0.12 0.08	ок ок ок ок ок ок ок ок	
W210 at 84.38% Wi180 at 20.31% Wi210 at 50.00% 	0.07 0.02 0.01 0.13 0.12 0.12 0.08 0.09	ок ок ок ок ок ок ок ок	
W210 at 84.38% Wi180 at 20.31% Wi210 at 50.00% 	0.07 0.02 0.01 0.13 0.12 0.12 0.08 0.09 0.07	ОК ОК ОК ОК ОК ОК ОК ОК ОК	
W210 at 84.38% Wi180 at 20.31% Wi210 at 50.00% 	0.07 0.02 0.01 0.13 0.12 0.12 0.08 0.09	ОК ОК ОК ОК ОК ОК ОК ОК	Eq. H1-1a
W210 at 84.38% Wi180 at 20.31% Wi210 at 50.00% 	0.07 0.02 0.01 0.13 0.12 0.12 0.08 0.09 0.07	ОК ОК ОК ОК ОК ОК ОК ОК ОК	Eq. H1-1a
W210 at 84.38% Wi180 at 20.31% Wi210 at 50.00% 	0.07 0.02 0.01 0.13 0.12 0.12 0.12 0.08 0.09 0.07 0.62 0.42	ОК ОК ОК ОК ОК ОК ОК ОК ОК ОК	Eq. H1-1a
W210 at 84.38% Wi180 at 20.31% Wi210 at 50.00% 	0.07 0.02 0.01 0.13 0.12 0.12 0.12 0.08 0.09 0.07 0.62 0.42 0.19	ОК ОК ОК ОК ОК ОК ОК ОК ОК ОК ОК	Eq. H1-1a
W210 at 84.38% Wi180 at 20.31% Wi210 at 50.00% 	0.07 0.02 0.01 0.13 0.12 0.12 0.12 0.08 0.09 0.07 0.62 0.42 0.19 0.12	ОК ОК ОК ОК ОК ОК ОК ОК ОК ОК ОК ОК	Eq. H1-1a
W210 at 84.38% Wi180 at 20.31% Wi210 at 50.00% 	0.07 0.02 0.01 0.13 0.12 0.12 0.12 0.08 0.09 0.07 0.62 0.42 0.19	ОК ОК ОК ОК ОК ОК ОК ОК ОК ОК ОК	Eq. H1-1a

LC8 at 100.00%	0.20	ОК	Eq. Sec. D2
LC9 at 100.00%	0.20	OK	Eq. 366. D2
W180 at 0.00%	0.08	OK	
W210 at 100.00%	0.13	OK	
Wi180 at 0.00% Wi210 at 0.00%	0.04 0.02	OK OK	
vviz 10 at 0.00 %	0.02		
LC1 at 100.00%	0.13	ОК	
LC10 at 0.00%	0.08	OK	
LC11 at 0.00%	0.13	ОК	
LC12 at 0.00%	0.13	OK	
LC13 at 0.00%	0.09	OK	
LC14 at 0.00%	0.07	OK	
LC2 at 100.00%	0.19	ОK	
LC3 at 0.00%	0.43	OK	
LC4 at 100.00%	0.62	OK	Eg. H1-1a
LC5 at 100.00%	0.12	ОК	
LC6 at 100.00%	0.20	ОК	Eq. Sec. D2
LC7 at 0.00%	0.40	OK	
LC8 at 100.00%	0.59	OK	
LC9 at 100.00%	0.09	OK	
W180 at 0.00%	0.18	OK	
W210 at 100.00%	0.33	OK	Eq. H1-1a
Wi180 at 0.00%	0.04	OK	
Wi210 at 0.00%	0.04	OK	
LC1 at 0.00%	0.68	OK	Eq. H1-1a
LC10 at 100.00%	0.11	OK	
LC11 at 100.00%	0.07	OK	
LC12 at 0.00%	0.11	OK	
LC13 at 100.00%	0.09	OK	
LC14 at 100.00%	0.07	OK	
LC2 at 100.00%	0.10	OK	
LC3 at 100.00%	0.30	OK	Eq. H1-1a
LC4 at 0.00%	0.10	OK	
LC5 at 0.00% LC6 at 100.00%	0.66	OK OK	
LC7 at 100.00%	0.08 0.29	OK	
LC8 at 0.00%	0.29	OK	
LC9 at 0.00%	0.08	OK	
W180 at 100.00%	0.14	OK	Eq. H1-1b
		OK	
W210 at 0.00%	0.01		
Wi180 at 0.00% Wi210 at 0.00%	0.03 0.00	OK OK	
LC1 at 100.00%	0.10	OK	
LC10 at 0.00%	0.05	OK	
LC11 at 0.00%	0.05	OK	
LC12 at 100.00%	0.03	OK	
LC13 at 0.00%	0.01	OK	
LC14 at 0.00%	0.01	OK	
LC2 at 100.00%	0.40	OK	Eq. H1-1b
LC3 at 100.00%	0.09	OK	
LC4 at 100.00%	0.41	OK	
LC5 at 100.00%	0.10	OK	
LC6 at 100.00%	0.40	OK	
LC7 at 100.00%	0.09	OK	
LC8 at 100.00%	0.41	OK	Eq. H1-1b
LC9 at 0.00%	0.05	OK	
W180 at 100.00%	0.06	OK	
	0.26	OK	
W210 at 100.00% Wi180 at 0.00% Wi210 at 100.00%	0.04 0.03	OK OK	

LC1 at 0.00%	0.32	ОК	Eq. H1-1a
			Eq. 11-1a
LC10 at 0.00%	0.07	OK	
LC11 at 0.00%	0.09	OK	
LC12 at 0.00%	0.08	OK	
LC13 at 0.00%	0.06	OK	
LC14 at 0.00%	0.04	OK	
LC2 at 0.00%	0.34	OK	Eq. H1-1b
LC3 at 100.00%	0.14	OK	
LC4 at 0.00%		OK	
	0.55		Eq. H1-1a
LC5 at 0.00%	0.30	OK	
LC6 at 0.00%	0.33	OK	
LC7 at 100.00%	0.14	OK	
LC8 at 0.00%	0.53	OK	
LC9 at 0.00%	0.09	OK	
W180 at 100.00%	0.09	ОК	
W210 at 0.00%	0.23	OK	
Wi180 at 0.00%	0.05	OK	
Wi210 at 0.00%	0.03	ОК	
LC1 at 100.00%	0.30	OK	
LC10 at 0.00%	0.03	OK	
LC11 at 0.00%	0.03	OK	
LC12 at 0.00%	0.03	OK	
LC13 at 0.00%	0.01	OK	
LC14 at 0.00%	0.01	OK	
LC2 at 0.00%	0.09	OK	
LC3 at 100.00%	0.30	OK	Eq. H1-1b
LC4 at 0.00%	0.11	OK	•
LC5 at 100.00%	0.30	OK	Eg. H1-1b
			Eq. 111-10
LC6 at 0.00%	0.09	OK	
LC7 at 100.00%	0.30	OK	
LC8 at 0.00%	0.11	OK	
LC9 at 0.00%	0.05	OK	
W180 at 100.00%	0.18	OK	
W210 at 0.00%	0.06	ок	
Wi180 at 0.00%	0.06	OK	
Wi210 at 0.00%	0.00	OK	
LC1 at 0.00%	0.19	OK	
LC10 at 0.00%	0.08	OK	Eq. H1-1b
LC11 at 0.00%	0.09	OK	
LC12 at 0.00%	0.06	OK	
LC13 at 0.00%	0.06	OK	
LC14 at 0.00%	0.00	OK	
LC2 at 0.00%	0.54	OK	Eq. H1-1a
LC3 at 0.00%	0.13	OK	
LC4 at 0.00%	0.29	OK	Eq. H1-1b
LC5 at 0.00%	0.18	OK	
LC6 at 0.00%	0.52	ОК	
LC7 at 0.00%	0.12	OK	
LC8 at 0.00%			
	0.28	OK	
	a / a	1 1/2	
LC9 at 0.00%	0.10	OK	
LC9 at 0.00%	0.10 0.07	OK	
LC9 at 0.00% W180 at 0.00%			
LC9 at 0.00% W180 at 0.00% W210 at 0.00%	0.07 0.17	OK OK	
LC9 at 0.00% W180 at 0.00% W210 at 0.00% Wi180 at 0.00%	0.07	ок	
LC9 at 0.00% W180 at 0.00% W210 at 0.00% Wi180 at 0.00% Wi210 at 0.00%	0.07 0.17 0.05 0.02	OK OK OK OK	
LC9 at 0.00% W180 at 0.00% W210 at 0.00% Wi180 at 0.00% Wi210 at 0.00%	0.07 0.17 0.05	OK OK OK	**********
LC9 at 0.00% W180 at 0.00% W210 at 0.00% Wi180 at 0.00% Wi210 at 0.00%	0.07 0.17 0.05 0.02	OK OK OK OK	******
LC9 at 0.00% W180 at 0.00% W210 at 0.00% Wi210 at 0.00% Wi210 at 0.00% LC1 at 0.00% LC10 at 100.00%	0.07 0.17 0.05 0.02 0.24 0.03	OK OK OK OK OK	*****
LC9 at 0.00% W180 at 0.00% W210 at 0.00% Wi180 at 0.00% Wi210 at 0.00% LC1 at 0.00% LC10 at 100.00% LC11 at 0.00%	0.07 0.17 0.05 0.02 0.24 0.03 0.06	OK OK OK OK OK OK	******
LC9 at 0.00% W180 at 0.00% W210 at 0.00% W180 at 0.00% W1210 at 0.00% LC1 at 0.00% LC10 at 100.00% LC11 at 0.00% LC12 at 0.00%	0.07 0.17 0.05 0.02 0.24 0.03 0.06 0.05	OK OK OK OK OK OK	******
LC9 at 0.00% W180 at 0.00% W210 at 0.00% Wi210 at 0.00% LC1 at 0.00% LC10 at 100.00% LC11 at 0.00% LC12 at 0.00% LC13 at 0.00%	0.07 0.17 0.05 0.02 0.24 0.03 0.06 0.05 0.01	OK OK OK OK OK OK OK	
LC9 at 0.00% W180 at 0.00% W210 at 0.00% Wi210 at 0.00% LC1 at 0.00% LC10 at 100.00% LC11 at 0.00% LC12 at 0.00% LC13 at 0.00% LC14 at 0.00%	0.07 0.17 0.05 0.02 0.24 0.03 0.06 0.05 0.01 0.01	OK OK OK OK OK OK OK	
LC9 at 0.00% W180 at 0.00% W210 at 0.00% Wi210 at 0.00% LC1 at 0.00% LC10 at 100.00% LC11 at 0.00% LC12 at 0.00% LC13 at 0.00%	0.07 0.17 0.05 0.02 0.24 0.03 0.06 0.05 0.01	OK OK OK OK OK OK OK	

LC3 at 0.00%	0.22	ОК	
LC4 at 100.00%	0.40	OK	Eq. H1-1b
LC5 at 0.00%	0.24	OK	
LC6 at 100.00%	0.41	ок	Eq. H1-1b
			Eq. 111 15
LC7 at 0.00%	0.22	OK	
LC8 at 100.00%	0.40	OK	
LC9 at 0.00%	0.08	OK	
W180 at 0.00%	0.14	ок	
W210 at 100.00%	0.25	OK	
Wi180 at 0.00%	0.06	OK	
Wi210 at 100.00%	0.03	OK	
LC1 at 100.00%	0.43	OK	
LC10 at 100.00%	0.08	OK	
LC11 at 100.00%	0.10	OK	
LC12 at 100.00%	0.07	OK	
LC13 at 100.00%	0.06	OK	
LC14 at 100.00%	0.04	OK	
LC2 at 100.00%	0.55	OK	Eq. H1-1a
LC3 at 100.00%	0.22	ОК	
LC4 at 100.00%	0.35	OK	Eq. H1-1b
LC5 at 100.00%	0.42	OK	
LC6 at 100.00%	0.54	ОК	
LC7 at 100.00%	0.21	OK	
LC8 at 100.00%	0.34	OK	
LC9 at 100.00%	0.10	OK	
W180 at 100.00%	0.13	OK	
W210 at 100.00%	0.19	OK	
Wi180 at 100.00%	0.06	OK	
Wi210 at 100.00%	0.03	OK	
	0.00		***************************************
LC1 at 0.00%	0.33	OK	
LC10 at 100.00%	0.03	OK	
LC11 at 100.00%	0.08	OK	
LC12 at 100.00%	0.02	OK	
LC13 at 100.00%	0.02	OK	
LC14 at 100.00%	0.01	OK	
LC2 at 100.00%	0.12	OK	
LC3 at 0.00%	0.33	OK	Eq. H1-1b
			Lq. 111-10
LC4 at 100.00%	0.09	OK	
LC5 at 0.00%	0.33	OK	Eq. H1-1b
LC6 at 100.00%	0.11	OK	
LC7 at 0.00%	0.32	OK	
LC8 at 100.00%	0.09	OK	
LC9 at 0.00%	0.05	OK	
W180 at 0.00%	0.20	OK	
W210 at 100.00%	0.07	OK	
Wi180 at 100.00%	0.06	OK	
Wi210 at 100.00%	0.01	OK	
LC1 at 0.00%	0.20	OK	
LC10 at 0.00%	0.06	OK	
LC11 at 0.00%	0.09	OK	
		ОК	Eq. H1-1b
LC12 at 0.00%	0.09		
	0.09		-4
LC12 at 0.00% LC13 at 0.00%	0.06	OK	-4
			_4
LC13 at 0.00% LC14 at 0.00%	0.06 0.05	ОК ОК	
LC13 at 0.00% LC14 at 0.00% LC2 at 0.00%	0.06 0.05 0.29	OK OK OK	Eq. H1-1b
LC13 at 0.00% LC14 at 0.00% LC2 at 0.00% LC3 at 100.00%	0.06 0.05 0.29 0.15	ok ok ok ok	Eq. H1-1b
LC13 at 0.00% LC14 at 0.00% LC2 at 0.00% LC3 at 100.00%	0.06 0.05 0.29	ок ОК ОК ОК ОК	
LC13 at 0.00% LC14 at 0.00% LC2 at 0.00% LC3 at 100.00% LC4 at 0.00%	0.06 0.05 0.29 0.15	ok ok ok ok	Eq. H1-1b
LC13 at 0.00% LC14 at 0.00% LC2 at 0.00% LC3 at 100.00% LC4 at 0.00% LC5 at 0.00%	0.06 0.05 0.29 0.15 0.55 0.18	ок ок ок ок ок	Eq. H1-1b
LC13 at 0.00% LC14 at 0.00% LC2 at 0.00% LC3 at 100.00% LC4 at 0.00% LC5 at 0.00% LC6 at 0.00%	0.06 0.05 0.29 0.15 0.55 0.18 0.28	ок ок ок ок ок	Eq. H1-1b
LC13 at 0.00% LC14 at 0.00% LC2 at 0.00% LC3 at 100.00% LC4 at 0.00% LC5 at 0.00% LC6 at 0.00% LC7 at 100.00%	0.06 0.05 0.29 0.15 0.55 0.18	ок ок ок ок ок ок	Eq. H1-1b
LC13 at 0.00% LC14 at 0.00% LC2 at 0.00% LC3 at 100.00% LC4 at 0.00% LC5 at 0.00% LC6 at 0.00%	0.06 0.05 0.29 0.15 0.55 0.18 0.28	ок ок ок ок ок	Eq. H1-1b
LC13 at 0.00% LC14 at 0.00% LC2 at 0.00% LC3 at 100.00% LC4 at 0.00% LC5 at 0.00% LC6 at 0.00% LC7 at 100.00% LC8 at 0.00%	0.06 0.05 0.29 0.15 0.55 0.18 0.28 0.15 0.53	ок ок ок ок ок ок	Eq. H1-1b
LC13 at 0.00% LC14 at 0.00% LC2 at 0.00% LC3 at 100.00% LC4 at 0.00% LC5 at 0.00% LC6 at 0.00% LC7 at 100.00%	0.06 0.05 0.29 0.15 0.55 0.18 0.28 0.15	ок ок ок ок ок ок	Eq. H1-1b

W180 at 100.00%	0.08	ОК	
W210 at 0.00%	0.21	OK	
Wi180 at 0.00%	0.05	OK	
Wi210 at 0.00%	0.03	OK	
LC1 at 100.00%	0.26	ОК	
LC10 at 0.00%	0.03	OK	
LC11 at 0.00%	0.07	OK	
LC12 at 0.00%	0.05	OK	
LC13 at 0.00%	0.01	OK	
LC14 at 0.00%	0.01	OK	
LC2 at 0.00%	0.39	OK	
LC3 at 100.00%	0.26	OK	
LC4 at 0.00%	0.41	OK	Eq. H1-1b
LC5 at 100.00%	0.26	OK	
LC6 at 0.00%	0.39	OK OK	Eq. H1-1b
LC7 at 100.00% LC8 at 0.00%	0.26 0.41	OK	
LC9 at 0.00%	0.41	OK	
W180 at 100.00%	0.08	OK	
W130 at 0.00%	0.17	OK	
Wi180 at 0.00%	0.25	OK	
Wi210 at 100.00%	0.00	OK	
LC1 at 0.00%	0.24	OK	
LC10 at 0.00%	0.07	OK	
LC11 at 0.00%	0.10	OK	
LC12 at 0.00%	0.07	OK	
LC13 at 0.00%	0.06	OK OK	
LC14 at 0.00%	0.04	OK	Eg. H1-1b
LC2 at 0.00% LC3 at 0.00%	0.29 0.51	OK	Eq. H1-10
LC4 at 0.00%	0.35	OK	Eq. III-Ia
LC5 at 0.00%	0.33	OK	
LC6 at 0.00%	0.23	OK	
LC7 at 0.00%	0.49	OK	
LC8 at 0.00%	0.34	OK	
LC9 at 0.00%	0.10	OK	
W180 at 0.00%	0.28	OK	
W210 at 0.00%	0.18	OK	
Wi180 at 0.00%	0.07	OK	
Wi210 at 0.00%	0.02	ОК	
LC1 at 100.00%	0.18	OK	
LC10 at 0.00%	0.05	OK	
LC11 at 0.00%	0.04	OK	
LC12 at 0.00%	0.03	ОК	
LC13 at 0.00%	0.01	ОК	
LC14 at 0.00%	0.01	ок	
LC2 at 0.00%	0.41	ок	Eq. H1-1b
LC3 at 100.00%	0.16	OK	
LC4 at 0.00%	0.39	OK	
LC5 at 100.00%	0.18	OK	
LC6 at 0.00%	0.41	OK	
LC7 at 100.00%	0.16	OK	
LC8 at 0.00%	0.39	OK	Eq. H1-1b
LC9 at 0.00%	0.06	ОК	
W180 at 100.00%	0.10	ОК	
W210 at 0.00%	0.25	OK	
Wi180 at 0.00%	0.04	OK	
Wi210 at 100.00%	0.03	OK	
LC1 at 0.00%	0.19	OK	
LC10 at 0.00%	0.07	OK	

	LC11 at 0.00% LC12 at 0.00% LC13 at 0.00% LC14 at 0.00% LC2 at 0.00% LC3 at 0.00% LC4 at 0.00% LC5 at 0.00% LC6 at 0.00% LC7 at 0.00% LC9 at 0.00% W180 at 0.00% W180 at 0.00%	0.09 0.07 0.06 0.04 0.35 0.40 0.29 0.19 0.34 0.43 0.28 0.09 0.23 0.17 0.06 0.02	0 K K K K K K K K K K K K K K K K K K K	Eq. H1-1a Eq. H1-1b Eq. Sec. D2 Eq. H1-1a
104	LC1 at 0.00% LC10 at 0.00% LC11 at 0.00% LC12 at 0.00% LC13 at 0.00% LC14 at 0.00% LC2 at 100.00% LC3 at 0.00% LC4 at 100.00% LC5 at 0.00% LC6 at 100.00% LC7 at 0.00% W180 at 0.00% W180 at 0.00% W1210 at 0.00%	0.36 0.08 0.10 0.08 0.05 0.12 0.26 0.10 0.41 0.11 0.25 0.09 0.06 0.10 0.06 0.03 0.01	ОК О О О О О О О О О О О О О О О О О О О	Eq. H1-1a Eq. H1-1a
105	LC1 at 0.00% LC10 at 0.00% LC11 at 0.00% LC12 at 0.00% LC13 at 0.00% LC14 at 0.00% LC2 at 0.00% LC3 at 100.00% LC4 at 0.00% LC5 at 0.00% LC6 at 0.00% LC9 at 0.00% W180 at 0.00% W180 at 0.00% W180 at 0.00%	0.14 0.09 0.07 0.06 0.04 0.30 0.08 0.37 0.12 0.21 0.21 0.11 0.21 0.11 0.42 0.09 0.15 0.34 0.03 0.04	ОК ОК ОС ОС ОС ОС ОС ОС ОС ОС ОС ОС ОС ОС ОС	Eq. H1-1a Eq. H1-1a
106	LC1 at 0.00% LC10 at 0.00% LC11 at 0.00% LC12 at 0.00% LC13 at 0.00% LC14 at 0.00% LC2 at 0.00% LC3 at 0.00% LC3 at 0.00%	0.15 0.10 0.07 0.07 0.06 0.05 0.35 0.10 0.47	OK OK OK OK OK OK OK	Eq. H1-1a

LC5 at 0.00%	0.14	OK	
LC6 at 0.00%	0.34	OK	
LC7 at 0.00%	0.15	OK	
LC8 at 0.00%	0.51	ОК	Eq. H1-1a
LC9 at 0.00%	0.10	OK	
W180 at 0.00%	0.18	ОК	
W210 at 0.00%	0.40	ОК	
Wi180 at 0.00%	0.04	OK	
Wi210 at 0.00%	0.05	ок	
	0.40	01/	
LC1 at 0.00%	0.16	OK	
LC10 at 0.00%	0.07	OK	
LC11 at 0.00%	0.07	OK	
LC12 at 0.00%	0.10	OK	
LC13 at 0.00%	0.06	OK	
LC14 at 0.00%	0.05	OK	
LC2 at 0.00%	0.46	OK	
LC3 at 0.00%	0.14	OK	
LC4 at 0.00%	0.35	OK	Eq. H1-1a
LC5 at 0.00%	0.15	OK	
LC6 at 0.00%	0.51	OK	Eq. H1-1a
LC7 at 0.00%	0.16	OK	
LC8 at 0.00%	0.33	OK	
LC9 at 0.00%	0.09	OK	
W180 at 0.00%	0.17	OK	
W210 at 0.00%	0.14	OK	
Wi180 at 0.00%	0.03	OK	
Wi210 at 0.00%	0.02	OK	
LC1 at 0.00%	0.17	OK	
LC10 at 0.00%	0.07	OK	
LC11 at 0.00%	0.07	OK	
LC12 at 0.00%	0.10	OK	
LC13 at 0.00%	0.06	OK	
LC14 at 0.00%	0.05	OK	
LC2 at 0.00%	0.37	OK	
LC3 at 0.00%	0.13	OK	
LC4 at 0.00%	0.31	OK	Eq. H1-1a
LC5 at 0.00%	0.16	OK	
LC6 at 0.00%	0.42	OK	Eq. H1-1a
LC7 at 0.00%	0.15	OK	Eq. 111-1a
LC8 at 0.00%	0.13	OK	
LC8 at 0.00%			
	0.10	OK	
W180 at 0.00%	0.16	OK	
W210 at 0.00%	0.12	OK	
Wi180 at 0.00% Wi210 at 0.00%	0.04 0.01	OK OK	
••••2 TO at 0.00 /0	0.01		
LC1 at 0.00%	0.43	OK	
LC10 at 0.00%	0.08	OK	
LC11 at 0.00%	0.11	OK	
LC12 at 0.00%	0.08	OK	
LC13 at 0.00%	0.06	ОК	
LC14 at 0.00%	0.05	OK	
LC2 at 100.00%	0.10	ОК	
LC3 at 0.00%	0.31	ОК	Eq. H1-1a
LOJ al 0.0070		ОК	•
LC4 at 100.00%	0.12		
	0.12 0.48	OK	Eq. H1-1a
LC4 at 100.00% LC5 at 0.00%	0.48		Eq. H1-1a
LC4 at 100.00% LC5 at 0.00% LC6 at 100.00%	0.48 0.09	ОК	Eq. H1-1a
LC4 at 100.00% LC5 at 0.00% LC6 at 100.00% LC7 at 0.00%	0.48 0.09 0.30	OK OK	Eq. H1-1a
LC4 at 100.00% LC5 at 0.00% LC6 at 100.00% LC7 at 0.00% LC8 at 100.00%	0.48 0.09 0.30 0.11	ok ok ok	Eq. H1-1a
LC4 at 100.00% LC5 at 0.00% LC6 at 100.00% LC7 at 0.00%	0.48 0.09 0.30	OK OK	Eq. H1-1a

	Wi180 at 0.00%	0.03	OK	
	Wi210 at 0.00%	0.01	OK	
234	LC1 at 31.25%	0.35	With warnings	
	LC10 at 0.00%	0.06	With warnings	
	LC11 at 66.67% LC12 at 66.67%	0.10 0.07	With warnings With warnings	
	LC13 at 35.42%	0.07	With warnings	
	LC14 at 35.42%	0.02	With warnings	
	LC2 at 33.33%	0.52	With warnings	Eq. H1-1a
	LC3 at 66.67%	0.51	With warnings	Eq. H1-1a
	LC4 at 66.67%	0.43	With warnings	
	LC5 at 33.33%	0.35	With warnings	
	LC6 at 33.33%	0.52	With warnings	
	LC7 at 66.67%	0.50	With warnings	
	LC8 at 66.67%	0.42	With warnings	
	LC9 at 0.00%	0.09	With warnings	
	W180 at 66.67%	0.31	With warnings	
	W210 at 66.67%	0.26	With warnings	
	Wi180 at 66.67%	0.07	With warnings	
	Wi210 at 66.67%	0.04	With warnings	
07.1				
274	LC1 at 100.00%	0.16	OK	
	LC10 at 100.00%	0.10	OK	
	LC11 at 100.00%	0.14	OK	
	LC12 at 100.00%	0.09	OK	
	LC13 at 100.00% LC14 at 100.00%	0.06	OK OK	
	LC2 at 100.00%	0.04 0.41	OK	Eq. H2-1
	LC3 at 100.00%	0.20	OK	Lq. 112-1
	LC4 at 100.00%	0.33	OK	
	LC5 at 100.00%	0.00	OK	
	LC6 at 100.00%	0.40	OK	
	LC7 at 100.00%	0.19	OK	
	LC8 at 100.00%	0.33	OK	
	LC9 at 100.00%	0.13	OK	
	W180 at 100.00%	0.09	OK	
	W210 at 100.00%	0.21	OK	
	Wi180 at 100.00%	0.07	ОК	
	Wi210 at 100.00%	0.03	OK	
275	LC1 at 0.00%	0.15	OK	
	LC10 at 0.00%	0.09	OK	
	LC11 at 0.00%	0.14	OK	
	LC12 at 0.00%	0.10	OK	
	LC13 at 0.00% LC14 at 0.00%	0.06	OK	
	LC2 at 0.00%	0.04	OK OK	
	LC3 at 0.00%	0.33 0.20	OK	
	LC4 at 0.00%	0.20 0.41	OK	Eg. H2-1
	LC5 at 0.00%	0.14	OK	Ly. 112-1
	LC6 at 0.00%	0.33	OK	
	LC7 at 0.00%	0.19	OK	
	LC8 at 0.00%	0.40	OK	
	LC9 at 0.00%	0.13	OK	
	W180 at 0.00%	0.09	OK	
	W210 at 0.00%	0.22	OK	
	Wi180 at 0.00%	0.07	OK	
	Wi210 at 0.00%	0.03	OK	
076		0.00		
276	LC1 at 0.00%	0.23	OK	
	LC10 at 0.00% LC11 at 0.00%	0.10 0.13	OK OK	
	LC11 at 0.00%	0.13	OK	
	2012 0.000/0	0.10		

T2L 3X3X1_4 27

Page27

	LC13 at 0.00%	0.06	ок	
	LC14 at 0.00%	0.04	OK	
14	LC2 at 0.00%	0.37	ок	Eq. H2-1
	LC3 at 0.00%	0.14	OK	
	LC4 at 0.00%	0.37	OK	
	LC5 at 0.00%	0.22	OK	
	LC6 at 0.00%	0.36	ОК	
	LC7 at 0.00%	0.14	OK	
	LC8 at 0.00%	0.36	OK	
	LC9 at 0.00%	0.14	OK	
	W180 at 0.00%	0.10	OK	
	W210 at 0.00%	0.20	OK	
	Wi180 at 0.00%	0.07	OK	
	Wi210 at 0.00%	0.03	ОК	

Bentley Hewlett-Packard Company

Current Date: 3/19/2018 6:20 PM Units system: English File name: W:\STRUCTURAL DEPARTMENT\ANALYSIS SOFTWARE\RAM Elements\RAM Projects\AT&T\CT\CT2046\CT2046 (MOD.).etz\

Geometry data

GLOSSARY

Cb22, Cb33	: Moment gradient coefficients
Cm22, Cm33	: Coefficients applied to bending term in interaction formula
d0	Tapered member section depth at J end of member
DJX	Rigid end offset distance measured from J node in axis X
DJY	Rigid end offset distance measured from J node in axis Y
DJZ	Rigid end offset distance measured from J node in axis Z
DKX	Rigid end offset distance measured from K node in axis X
DKY	Rigid end offset distance measured from K node in axis Y
DKZ	Rigid end offset distance measured from K node in axis Z
dL	Tapered member section depth at K end of member
lg factor	Inertia reduction factor (Effective Inertia/Gross Inertia) for reinforced concrete members
K22	Effective length factor about axis 2
K33	Effective length factor about axis 3
L22	Member length for calculation of axial capacity
L33	Member length for calculation of axial capacity
LB pos	ELateral unbraced length of the compression flange in the positive side of local axis 2
LB neg	: Lateral unbraced length of the compression flange in the negative side of local axis 2
RX	: Rotation about X
RY	Rotation about Y
RZ	Rotation about Z
TO	1 = Tension only member 0 = Normal member
ТХ	Translation in X
ΤY	: Translation in Y
TZ	: Translation in Z

Nodes

Node	X [ft]	Y [ft]	Z [ft]	Rigid Floor
5	1.7083	0.00	3.1755	0
6	-1.7083	0.00	3.1755	0
10	1.7083	3.33	3.1755	0
12	0.00	3.33	0.00	0
17	1.7083	0.50	3.1755	0
18	-1.7083	0.50	3.1755	0
21	-1.7083	2.6667	3.1755	0
22	1.7083	2.6667	3.1755	0
26	0.00	0.00	0.00	0
117	-5.50	0.00	3.1754	0
119	-3.6042	0.00	-0.1083	0
120	-1.8959	0.00	-3.0672	0
124	-3.6042	3.33	-0.1083	0
125	-5.50	3.33	3.1754	0
127	-5.50	0.50	3.1754	0
129	-3.6042	0.50	-0.1083	0
130	-1.8959	0.50	-3.0672	0
133	-1.8959	2.6667	-3.0672	0
134	-3.6042	2.6667	-0.1083	0
135	-5.50	2.6667	3.1754	0
237	2.90E-05	0.00	-6.3509	0
238	5.50	0.00	3.1754	0

239	1.8959	0.00	-3.0672	0
240	3.6042	0.00	-0.1083	0
241	5.50	3.33	3.1754	0
243	3.6042	3.33	-0.1083	0
244	1.8959	3.33	-3.0672	0
245	2.90E-05	3.33	-6.3509	0
247	2.90E-05	0.50	-6.3509	0
248	5.50	0.50	3.1754	0
249 250	1.8959 3.6042	0.50 0.50	-3.0672 -0.1083	0 0
250 251	5.50	2.6667	-0.1083 3.1754	0
253	3.6042	2.6667	-0.1083	0
254	1.8959	2.6667	-3.0672	0
255	2.90E-05	2.6667	-6.3509	o
280	-0.75	3.33	0.00	õ
281	-0.75	0.00	0.00	0
282	0.75	3.33	0.00	0
283	0.75	0.00	0.00	0
284	0.375	3.33	0.6495	0
285	0.375	0.00	0.6495	0
286	-0.375	3.33	0.6495	0
287	-0.375	0.00	0.6495	0
288	0.375	3.33	-0.6495	0
289	0.375	0.00	-0.6495	0
290	-0.375	3.33	-0.6495	0
291	-0.375	0.00	-0.6495	0
302	6.4952	3.33	3.75	0
303	6.4952	0.00	3.75	0
304	6.4952	5.208	3.75	0
305	6.4952	-0.50	3.75	0
396	-1.8959	3.33	-3.0672	0
421	5.3125	2.6667	2.8507	0
423	5.3125	0.50	2.8507	0
424 426	5.4857 5.4857	2.6667 0.50	2.7507 2.7507	0
420	5.4857	6.708	2.7507	0
428	5.4857	-1.292	2.7507	0
429	-1.7083	3.33	3.1755	o
438	2.75	2.6667	-1.5877	0
440	2.75	0.50	-1.5877	0
441	2.9232	2.6667	-1.6877	0
443	2.9232	0.50	-1.6877	0
444	2.9232	6.708	-1.6877	0
445	2.9232	-1.292	-1.6877	0
446	0.1875	2.6667	-6.0261	0
448	0.1875	0.50	-6.0261	0
449	0.3607	2.6667	-6.1261	0
451	0.3607	0.50	-6.1261	0
452	0.3607	5.708	-6.1261	0
453	0.3607	-0.30	-6.1261	0
458	-6.4952	3.33	3.75	0
459	-6.4952	0.00	3.75	0
460	-6.4952	5.208	3.75	0
461	-6.4952	-0.50	3.75	0
462	2.90E-05	3.33	-7.50	0
463 464	2.90E-05	0.00	-7.50	0 0
464 465	2.90E-05 2.90E-05	5.208 -0.50	-7.50 -7.50	0
405 502	-0.1875	2.6667	-6.0261	0
502 503	-0.1875	0.50	-6.0261	0
505	-0.1070	0.00	-0.0201	0

504	-0.3607	2.6667	-6.1261	0
505	-0.3607	0.50	-6.1261	0
506	-0.3607	6.708	-6.1261	0
507	-0.3607	-1.292	-6.1261	0
508	-2.75	2.6667	-1.5877	0
509	-2.75	0.50	-1.5877	0
510	-2.9232	2.6667	-1.6877	0
511	-2.9232	0.50	-1.6877	0
512	-2.9232	6.708	-1.6877	0
513	-2.9232	-1.292	-1.6877	0
514	-5.3125	2.6667	2.8507	0
515	-5.3125	0.50	2.8507	0
516	-5.4857	2.6667	2.7507	0
517	-5.4857	0.50	2.7507	0
518	-5.4857	5.708	2.7507	0
519	-5.4857	-0.30	2.7507	0
520	-5.125	2.6667	3.1754	0
521	-5.125	0.50	3.1754	0
522	-5.125	2.6667	3.3754	0
523	-5.125	0.50	3.3754	0
524	-5.125	5.708	3.3754	0
525	-5.125	-0.30	3.3754	0
526	0.00	2.6667	3.1754	0
527	0.00	0.50	3.1754	0
528	0.00	2.6667	3.3754	0
529	0.00	0.50	3.3754	0
530	0.00	5.708	3.3754	0
531	0.00	-0.30	3.3754	0
532	5.125	2.6667	3.1754	0
533	5.125	0.50	3.1754	0
534	5.125	2.6667	3.3754	0
535	5.125	0.50	3.3754	0
536	5.125	5.708	3.3754	0
537	5.125	-0.30	3.3754	0
538	3.125	2.6667	-0.9382	0
539	3.125	0.50	-0.9382	0
544	-2.375	0.50	-2.2372	0
545	-2.375	2.6667	-2.2372	0
546	-0.75	0.50	3.1754	0
547	-0.75	2.6667	3.1754	0
551	0.5625	-3.003	0.3248	0
552	-0.5625	-3.003	0.3248	0
553	0.00	-3.003	-0.6495	0
554	-5.50	4.33	3.1754	0
555	5.50	4.33	3.1754	0
556	2.90E-05	4.33	-6.3509	0
575	5.125	4.33	3.1754	0
576	5.125	4.33	3.3754	0
577	0.00	4.33	3.1754	0
578	0.00	4.33	3.3754	0
579	-5.125	4.33	3.1754	0
580	-5.125	4.33	3.3754	0
581	-5.3125	4.33	2.8507	0
582	-5.4857	4.33	2.7507	0
583	-2.75	4.33	-1.5877	0
584	-2.9232	4.33	-1.6877	0
585	-0.1875	4.33	-6.0261	0
586	-0.3607	4.33	-6.1261	0
587	0.1875	4.33	-6.0261	0
588	0.3607	4.33	-6.1261	0

589	2.75	4.33	-1.5877	0
590	2.9232	4.33	-1.6877	0
591	5.3125	4.33	2.8507	0
592	5.4857	4.33	2.7507	0
594	0.00	0.00	3.3754	0
596	5.125	0.00	3.3754	0
598	-5.125	0.00	3.3754	0
600	-5.4857	0.00	2.7507	0
601	-2.75	-0.30	-1.5877	0
602	-2.9232	-0.30	-1.6877	0
603	-0.1875	-0.30	-6.0261	0
604	-0.3607	-0.30	-6.1261	0
605	0.1875	-0.30	-6.0261	0
607	2.75	-0.30	-1.5877	0
608	2.9232	-0.30	-1.6877	0
609	5.3125	-0.30	2.8507	0
610	5.4857	-0.30	2.7507	0
611	1.75	4.33	-3.3198	0
612	3.75	4.33	0.1443	0
617	-3.75	4.33	0.1443	0
618	-1.75	4.33	-3.3198	0
619	2.00	4.33	3.1754	0
620	-2.00	4.33	3.1754	0
621	0.00	3.33	0.7578	0
622	-0.5625	3.33	-0.3248	0
623	0.5625	3.33	-0.3248	0
624	-5.50	-0.30	3.1754	0
625	5.50	-0.30	3.1754	0
626	2.90E-05	-0.30	-6.3509	0
627	0.00	-0.30	3.1754	0
628	5.125	-0.30	3.1754	0
629	-5.125	-0.30	3.1754	0
630	-5.3125	-0.30	2.8507	0
631	-1.7083	-0.30	3.1755	0
632	1.7083	-0.30	3.1755	0
633	-3.6042	-0.30	-0.1083	0
634	-1.8959	-0.30	-3.0672	0
635	1.8959	-0.30	-3.0672	0
636	3.6042	-0.30	-0.1083	0
		*****	******	

Restraints

Node	тх	TY	ΤZ	RX	RY	RZ
	1	1	1	1	1	1
281	1	1	1	1	1	1
282	1	1	1	1	1	1
283	1	1	1	1	া	1
284	1	1	1	1	1	1
285	1	1	1	1	1	1
286	1	1	1	1	1	1
287	1	1	1	1	1	1
288	1	1	1	1	1	1
289	1	1	1	1	1	1
290	1	1	1	1	1	1
291	1	1	1	1	1	1

551	1	1	1	-1	1	1
552	1	1	1	1	1	1
553	1	1	1	1	1	1
			La Discolation de la composicione			ana waay

Members

Member	NJ	NK	Description	Section	Material	d0 [in]	dL [in]	lg facto
3	429	6		STube 1x1x1/8	A36	0.00	0.00	0.00
4	10	5		STube 1x1x1/8	A36	0.00	0.00	0.00
34	396	120		STube 1x1x1/8	A36	0.00	0.00	0.00
5	124	119		STube 1x1x1/8	A36	0.00	0.00	0.00
7	125	117		C 3X6	A36	0.00	0.00	0.00
9	124	117		STube 1x1x1/8	A36	0.00	0.00	0.00
5	237	238		STube 1x1x1/8	A36	0.00	0.00	0.00
6	243	240		STube 1x1x1/8	A36	0.00	0.00	0.00
7	244	239		STube 1x1x1/8	A36	0.00	0.00	0.00
8	238	241		C 3X6	A36	0.00	0.00	0.00
9	245	237		C 3X6	A36	0.00	0.00	0.00
0	238	243		STube 1x1x1/8	A36	0.00	0.00	0.00
1	244	237		STube 1x1x1/8	A36	0.00	0.00	0.00
2	251	255		P 1-3/8x1-3/8	A36	0.00	0.00	0.00
3	248	247		P 1-3/8x1-3/8	A36	0.00	0.00	0.00
8	245	125		STube 1x1x1/8	A36	0.00	0.00	0.00
9	237	117		STube 1x1x1/8	A36	0.00	0.00	0.00
0	247	127		P 1-3/8x1-3/8	A36	0.00	0.00	0.00
1	255	135		P 1-3/8x1-3/8	A36	0.00	0.00	0.00
2	396	237		STube 1x1x1/8	A36	0.00	0.00	0.00
3	117	238		STube 1x1x1/8	A36	0.00	0.00	0.00
4	125	241		STube 1x1x1/8	A36	0.00	0.00	0.00
5	135	251		P 1-3/8x1-3/8	A36	0.00	0.00	0.00
3	127	248		P 1-3/8x1-3/8	A36	0.00	0.00	0.00
7	429	117		STube 1x1x1/8	A36	0.00	0.00	0.00
3	10	238		STube 1x1x1/8	A36	0.00	0.00	0.00
9	6	119		STube 1x1x1/8	A36	0.00	0.00	0.00
5	5	240		STube 1x1x1/8	A36	0.00	0.00	0.00
1	239	120		STube 1x1x1/8	A36	0.00	0.00	0.00
2	280	124		STube 1x1x1/8	A36	0.00	0.00	0.00
3	281	119		STube 1x1x1/8	A36	0.00	0.00	0.00
1	284	10		STube 1x1x1/8	A36	0.00	0.00	0.00
5	285	5		STube 1x1x1/8	A36	0.00	0.00	0.00
5	282	243		STube 1x1x1/8	A36	0.00	0.00	0.00
7	240	283		STube 1x1x1/8	A36	0.00	0.00	0.00
3	429	286		STube 1x1x1/8	A36	0.00	0.00	0.00
)	287	200		STube 1x1x1/8	A36	0.00		
,)0	288	244		STube 1x1x1/8	A36	0.00	0.00 0.00	0.00
)1	289	239						0.00
)2	289	239 396		STube 1x1x1/8	A36	0.00	0.00	0.00
13	290 291	120		STube 1x1x1/8 STube 1x1x1/8	A36 A36	0.00	0.00	0.00
						0.00	0.00	0.00
)4	286	6		STube 1x1x1/8	A36	0.00	0.00	0.00
)5	280	119		STube 1x1x1/8	A36	0.00	0.00	0.00
)6	290	120		STube 1x1x1/8	A36	0.00	0.00	0.00
)7	288	239		STube 1x1x1/8	A36	0.00	0.00	0.00
8	282	240		STube 1x1x1/8	A36	0.00	0.00	0.00
)9	284	5		STube 1x1x1/8	A36	0.00	0.00	0.00
3	305	304		L 3X3X1_4	A53 GrB	0.00	0.00	0.00

208	427	428	PIPE 2x0.154	A53 GrB	0.00	0.00	0.00
216	444	445	PIPE 2-1_2x0.203	A53 GrB	0.00	0.00	0.00
220	452	453	PIPE 2x0.154	A53 GrB	0.00	0.00	0.00
222	461	460	L 3X3X1_4	A53 GrB	0.00	0.00	0.00
223	465	464	L 3X3X1_4	A53 GrB	0.00	0.00	0.00
224	245	462	C 3X6	A36	0.00	0.00	0.00
225	237	463	C 3X6	A36	0.00	0.00	0.00
226	117	459	C 3X6	A36	0.00	0.00	0.00
227	125	458	C 3X6	A36	0.00	0.00	0.00
228	241	302	C 3X6	A36	0.00	0.00	0.00
229	238	303	C 3X6	A36	0.00	0.00	0.00
234	241	245	STube 1x1x1/8	A36	0.00	0.00	0.00
255	506	507	PIPE 2x0.154	A53 GrB	0.00	0.00	0.00
258	512	513	PIPE 2-1_2x0.203	A53 GrB	0.00	0.00	0.00
261	518	519	PIPE 2x0.154	A53 GrB	0.00	0.00	0.00
264	524	525	PIPE 2x0.154	A53 GrB	0.00	0.00	0.00
267	530	531	PIPE 2-1 2x0.203	A53 GrB	0.00	0.00	0.00
270	536	537	PIPE 2x0.154	A53 GrB	0.00	0.00	0.00
271	547	546	P 1-3/8x1-3/8	A36	0.00	0.00	0.00
272	545	544	P 1-3/8x1-3/8	A36	0.00	0.00	0.00
273	538	539	P 1-3/8x1-3/8	A36	0.00	0.00	0.00
274	624	552	T2L 3X3X1_4	A36	0.00	0.00	0.00
275	551	625	T2L 3X3X1 4	A36	0.00	0.00	0.00
276	553	626	T2L 3X3X1 4	A36	0.00	0.00	0.00
277	554	555	PIPE 2-1_2x0.203	A53 GrB	0.00	0.00	0.00
278	556	554	PIPE 2-1_2x0.203	A53 GrB	0.00	0.00	0.00
279	555	556	PIPE 2-1_2x0.203	A53 GrB	0.00	0.00	0.00
307	620	621	L 2-1_2X2-1_2X3_16	A36	0.00	0.00	0.00
308	619	621	L 2-1_2X2-1_2X3_16	A36	0.00	0.00	0.00
309	617	622	L 2-1_2X2-1_2X3_16	A36	0.00	0.00	0.00
310	618	622	L 2-1_2X2-1_2X3_16	A36	0.00	0.00	0.00
311	611	623	L 2-1_2X2-1_2X3_16	A36	0.00	0.00	0.00
312	612	623	L 2-1 2X2-1 2X3 16	A36	0.00	0.00	0.00
316	624	625	HSS_SQR 4X4X1_4	A500 GrB rectangular	0.00	0.00	0.00
317	625	626	HSS_SQR 4X4X1_4	A500 GrB rectangular		0.00	0.00
318	626	624	HSS_SQR 4X4X1_4	A500 GrB rectangular		0.00	0.00
330	125	6	PIPE 2x0.154	A53 GrB	0.00	0.00	0.00
331	125	119	PIPE 2x0.154	A53 GrB	0.00	0.00	0.00
332	245	120	PIPE 2x0.154	A53 GrB	0.00	0.00	0.00
333	245	239	PIPE 2x0.154	A53 GrB	0.00	0.00	0.00
334	241	240	PIPE 2x0.154	A53 GrB	0.00	0.00	0.00
335	241	5	PIPE 2x0.154	A53 GrB	0.00	0.00	0.00

Orientation of local axes

Member	Rotation [Deg]	Axes23	NX	NY	NZ
3	0.00	2	1.00	0.00	0.00
1	0.00	2	1.00	0.00	0.00
34	0.00	2	-0.50	0.00	0.866
35	0.00	2	-0.50	0.00	0.866
37	0.00	2	-0.50	0.00	-0.866
6	0.00	2	-0.50	0.00	-0.866
67	0.00	2	-0.50	0.00	-0.866
68	0.00	2	0.50	0.00	-0.866
59	0.00	2	1.00	0.00	0.00

72	270.00	0	0.00	0.00	0.00	
73	270.00	Ō	0.00	0.00	0.00	
80	270.00	0	0.00	0.00	0.00	
81	270.00	0	0.00	0.00	0.00	
85	270.00	0	0.00	0.00	0.00	
86	270.00	0	0.00	0.00	0.00	
113	0.00	2	-0.2588	0.00	-0.9659	
208	0.00	2	-0.50	0.00	-0.866	
216	0.00	2	-0.50	0.00	-0.866	
220	0.00	2	-0.50	0.00	-0.866	
222	0.00	2	0.9659	0.00	0.2588	
223	45.00	0	0.00	0.00	0.00	
224	90.00	0	0.00	0.00	0.00	
225	270.00	0	0.00	0.00	0.00	
226	270.00	0	0.00	0.00	0.00	
227	90.00	0	0.00	0.00	0.00	
228	90.00	0	0.00	0.00	0.00	
229	270.00	0	0.00	0.00	0.00	
255	0.00	2	-0.50	0.00	0.866	
258	0.00	2	-0.50	0.00	0.866	
261	0.00	2	-0.50	0.00	0.866	
271	180.00	0	0.00	0.00	0.00	
272	300.00	0	0.00	0.00	0.00	
273	60.00	0	0.00	0.00	0.00	
308	270.00	0	0.00	0.00	0.00	
309	270.00	0	0.00	0.00	0.00	
311	270.00	0	0.00	0.00	0.00	

Rigid end offsets

Member	DJX [in]	DJY [in]	DJZ [in]	DKX [in]	DKY [in]	DKZ [in]
72	1.4073	0.00	-0.8125	1.4073	0.00	-0.8125
73	1.4073	0.00	-0.8125	1.4073	0.00	-0.8125
80	-2.2198	0.00	-0.5948	-2.2198	0.00	-0.5948
81	-2.2198	0.00	-0.5948	-2.2198	0.00	-0.5948
85	-0.5948	0.00	2.2198	-1.4073	-1.625	0.8125
86	-0.5948	0.00	2.2198	-1.4073	-1.625	0.8125

EXHIBIT 3



This report was prepared for American Tower Corporation by

T O W E R ENGINEERING PROFESSIONALS

Structural Analysis Report

Structure	: 180.6 ft Monopole
ATC Site Name	: Clch - Colchester, CT
ATC Site Number	: 302496
Engineering Number	: OAA735982_C3_01
Proposed Carrier	: AT&T Mobility
Carrier Site Name	: Colchester CT
Carrier Site Number	: CT2046
Site Location	: Chestnut Hill Road Colchester, CT 06415-2906 41.568900,-72.303700
County	: New London
Date	: July 3, 2018
Max Usage	: 95%
Result	: Pass

Prepared By: Connor Klein TEP

anne White

Reviewed By:



COA: PEC.0001553



Table of Contents

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



Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 180.6 ft monopole to reflect the change in loading by AT&T Mobility.

Supporting Documents

Tower Drawings	Mapping by HighTower, Project #HTS011509, dated January 13, 2008	
Foundation Drawing	Mapping by American Tower, dated January 22, 2009	
Geotechnical Report	GEOServices Project #21-07254, dated January 6, 2009	

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, Vasd) / 130 mph (3-Second Gust, Vult)		
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:	П		
Exposure Category:	В		
Topographic Category:	1		
Spectral Response:	Ss = 0.17, 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

Elevatio	on ¹ (ft)					
Mount	RAD	Qty	Antenna	Mount Type	Lines	Carrier
180.0		3	Kaelus DBC0061F1V51-2	Platform w/ Handrails	(12) 1 1/4" Coax (2) 0.78" 8 AWG 6 (1) 0.39" Fiber Trunk	AT&T Mobility
	185.0	1	Raycap DC6-48-60-18-8F			
		6	Powerwave LGP17201			
		3	Ericsson RRUS-11 800MHz			
		3	Ericsson RRUS 32 B2			
		3	Powerwave 7770.00			
		1	Quintel QS46512-2			
		2	CCI TPA-65R-LCUUUU-H8			

Equipment to be Removed

Elevatio	on ¹ (ft)		haddaaca yaa biyaan ahaa ku			
Mount	RAD	Qty	Antenna	Mount Type	Lines	Carrier
100.0	180.0 185.0	1	CCI OPA-65R-LCUU-H4			
180.0		2 CCI OPA-65R-LCUU-H8	-	-	AT&T Mobility	

Proposed Equipment

Elevatio	on ¹ (ft)				an a	
Mount	RAD	Qty	Antenna	Mount Type	Lines	Carrier
180.0 185		1	KMW AM-X-CD-14-65-00T-RET	Reinforced Platform w/ Handrails (SitePro 1 P/N SFS-v Sector Frame Stabilizer Kit & SitePro1 P/N PRK-1245 Platform Reinforcement Kit)		
	185.0	2	Andrew SBNH-1D6565C		AT&T Mobility	

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



Structure Usages

Structural Component	Controlling Usage	Pass/Fail
Anchor Bolts	77%	Pass
Shaft	95%	Pass
Base Plate	32%	Pass
Flanges	71%	Pass

Foundations

Reaction Component	Analysis Reactions	% of Usage	
Moment (Kips-Ft)	2,385.8	72%	
Axial (Kips)	43.4	27%	

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) (°)
180.0	KMW AM-X-CD-14-65-00T-RET	AT&T Mobility	4.183	2.761
	Andrew SBNH-1D6565C			

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



Standard Conditions

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

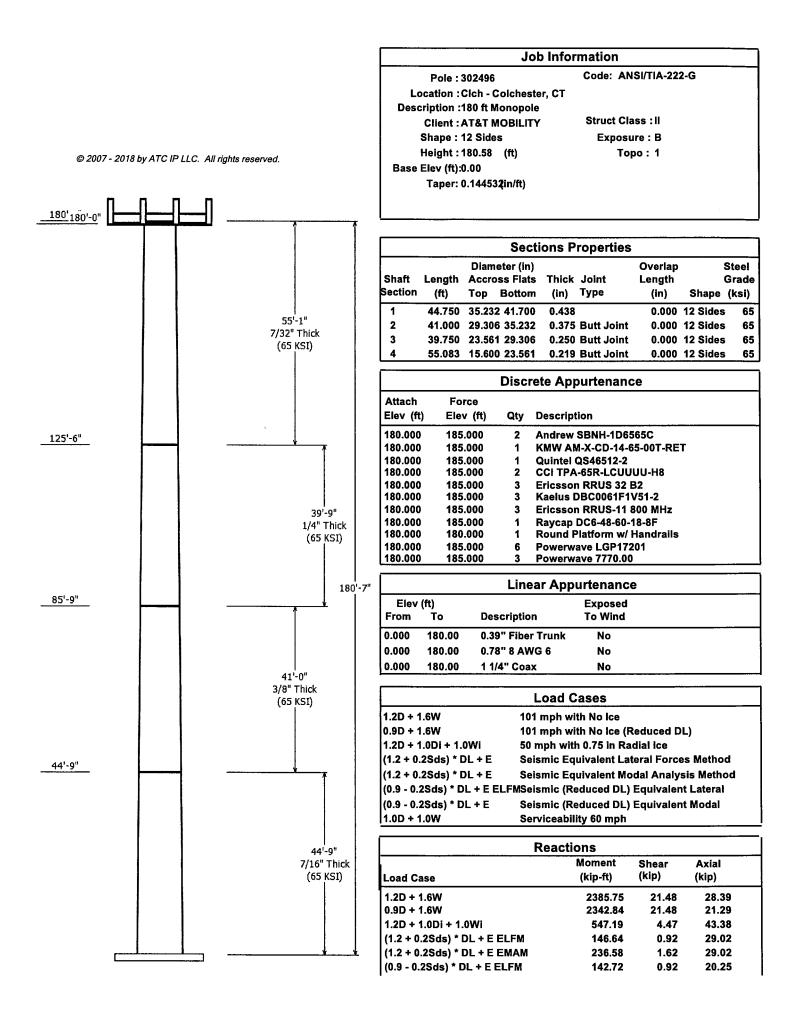
- Information supplied by the client regarding antenna, mounts and feed line loading
- Information from drawings, design and analysis documents, and field notes in the possession of A.T. Engineering Service, PLLC

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

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

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

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



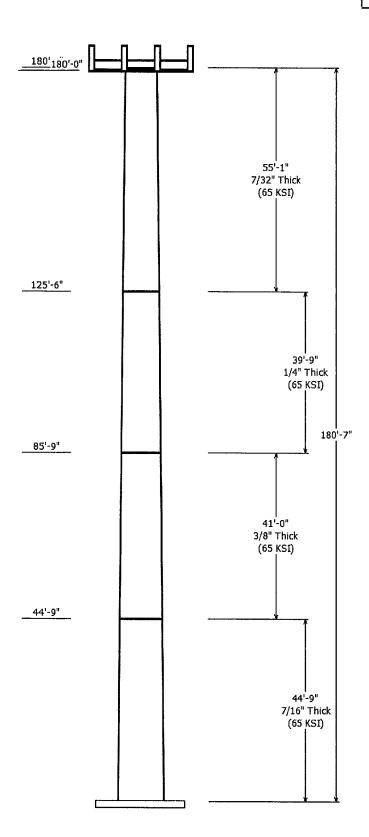
	Attach	Deflec	tion	Rotation (deg)
Dish	Deflectio	ons		·····
1.0D + 1.0W	52:	2.25	4.74	23.67
(0.9 - 0.2Sds) * DL + E EMAM	229	9.89	1.62	20.25

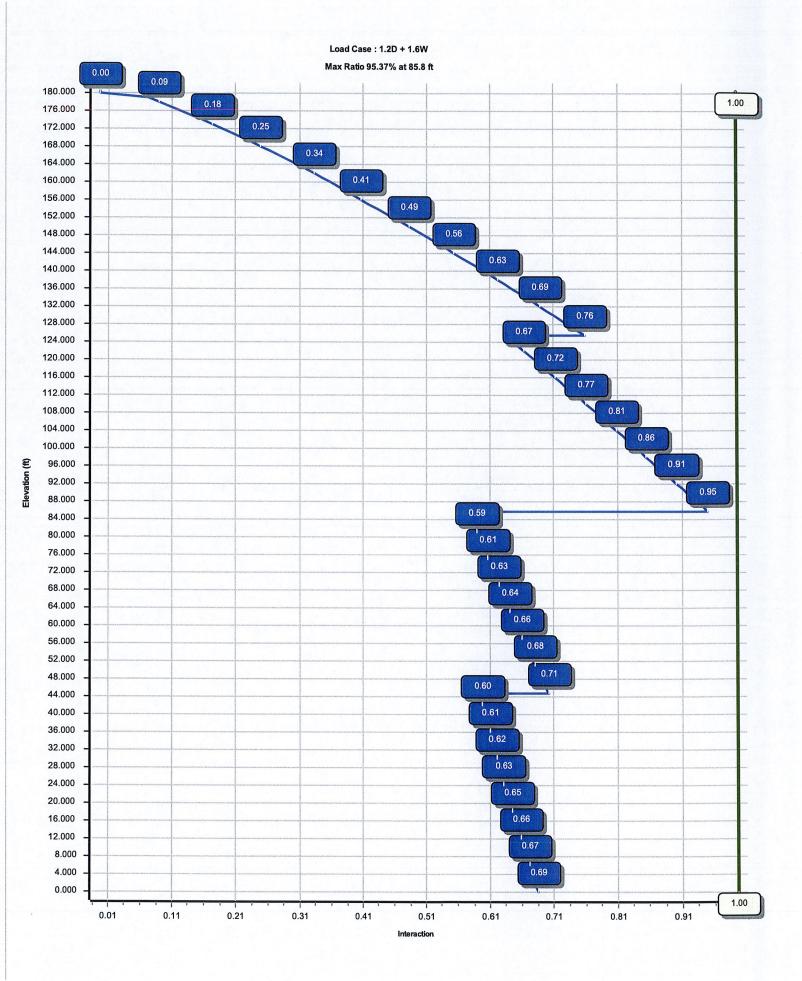
0.00

0.000

(deg) 0.000

-





Site Number Site Name: Customer:		chester, CT BILITY	Engineer	Code: ANSI/TIA-222-G ring Number: OAA735982_C3_01	© 2007 - 2018 by ATC IP LLC. All rights reserve 7/2/2018 6:10:25 PN				
			<u>Ar</u>	alysis Parameters					
Location :		NEW LONDON County	, CT	Height (ft) :	180	.5833			
Code :		ANSI/TIA-222-G		Base Diameter (in) :	4	11.70			
Shape :	hape : 12 Sides			Top Diameter (in) :	1	15.60			
Pole Type : Taper		Taper		Taper (in/ft) :	C).145			
Pole Manfacturer : Mapped		Mapped		Rotation (deg) :		0.00			
	*** ***		lce	& Wind Parameters					
Structure Clas	s:	II		Design Wind Speed Without Ice:	101	mph			
Exposure Cate	egory:	В		Design Wind Speed With Ice:	50 mph				
Topographic (Category:	1		Operational Wind Speed:	60 mph				
Crest Height:		0 ft		Design Ice Thickness:	0.	75 in			
<u> </u>			Se	eismic Parameters					
Analysis Meth	nod:	Equivalent Modal Anal	ysis & Equ	ivalent Lateral Force Methods					
Site Class:		D - Stiff Soil							
Period Based	on Rayleigh N	Method (sec):	3.39						
T _L (sec):	(sec): 6 p:		p:	1.3	C _s :	0.030			
S _s :	0.173		S ₁ : 0.061		C _s Max:	0.030			
F _a :	1.600		F _v :	2.400	C _s Min:	0.030			
S _{ds} :	0.185		S _{d1} :	0.098					

-

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

Site Name: Clch - Colchester, CT Customer: AT&T MOBILITY Code: ANSI/TIA-222-G Engineering Number: OAA735982_C3_01 © 2007 - 2018 by ATC IP LLC. All rights reserved. 7/2/2018 6:10:25 PM

Shaft Section Properties

<u>5112</u>	Shart Section Properties Slip						Bottom					— ——— Тор ———							
Sect Info	Length (ft)	Thick (in)			Joint Len (in)	Weight (lb)	Dia (in)	Elev (ft)	Area (in ²)	lx (in ⁴)	W/t Ratio	D/t Ratio	Dia (in)	Elev (ft)	Area (in²)	lx (in⁴)	W/t Ratio	D/t Ratio	Taper (in/ft)
1-12	44.750	0.4375	65		0.00	8,158	41.70	0.00	58.13	12632.4	22.86	95.31	35.232	44.75	49.02	7574.6	18.90	80.53	0.144532
2-12	41.000	0.3750) 65	Butt	0.00	5,373	35.23	44.75	42.09	6527.6	22.50	93.95	29.306	85.75	34.93	3732.3	18.26	78.15	0.144532
3-12	39.750	0.2500) 65	Butt	0.00	2,851	29.30	85.75	23.39	2520.6	28.73	117.23	23.561	125.50	18.77	1301.6	22.57	94.25	0.144532
4-12	55.083	0.2188	65	Butt	0.00	2,556	23.56	125.50	16.44	1143.5	26.18	107.71	15.600	180.58	10.83	327.2	16.43	71.31	0.144532
			SI	naft We	eight	18,938													

Discrete Appurtenance Properties

Attach Elev (ft)	Description	Qty	Distance From Face (ft)	Vert Ecc (ft)	Weight (Ib)	No Ice EPAa((sf)	Drientation Factor	
180.00	Andrew SBNH-1D6565C	2	0.000	5.000	66.10	11.450		
180.00	CCI TPA-65R-LCUUUU-H8	2	0.000	5.000	81.60	13.300	0.69	
180.00	Ericsson RRUS 32 B2	3	0.000	5.000	53.00	2.740	0.67	
180.00	Ericsson RRUS-11 800 MHz	3	0.000	5.000	54.00	2.520	0.67	
180.00	Kaelus DBC0061F1V51-2	3	0.000	5.000	25.50	0.510	0.50	
180.00	KMW AM-X-CD-14-65-00T-RET	1	0.000	5.000	36.40	4.990	0.66	
180.00	Powerwave 7770.00	3	0.000	5.000	35.00	5.510	0.65	
180.00	Powerwave LGP17201	6	0.000	5.000	31.00	1.670	0.50	
180.00	Quintel QS46512-2	1	0.000	5.000	104.00	5.550	0.74	
180.00	Raycap DC6-48-60-18-8F	1	0.000	5.000	20.00	1.110	1.00	
180.00	Round Platform w/ Handrails	1	0.000	0.000	2000.00	27.200	1.00	
Totals	Num Loadings:11	26			3144.30			

Linear Appurtenance Properties

Elev Elev From To (ft) (ft) Qty	/ Description	Coax Diameter (in)	Coax Weight (lb/ft)		Projected Width (in)	Exposed To Wind	Carrier
0.00 180.00 1	0.39" Fiber Trunk	0.39	0.06	Ν	0.00	N	AT&T Mobility
0.00 180.00 2	0.78" 8 AWG 6	0.78	0.59	Ν	0.00	N	AT&T Mobility
0.00 180.00 12	1 1/4" Coax	1.55	0.63	Ν	0.00	Ν	AT&T Mobility

Site Name: Clch - Colchester, CT Customer: AT&T MOBILITY Code: ANSI/TIA-222-G Engineering Number: OAA735982_C3_01 © 2007 - 2018 by ATC IP LLC. All rights reserved. 7/2/2018 6:10:25 PM

-

-

Segment Properties (Max Len : 1.ft)

Seg Top Elev	Flat Thick Dia	Area	lx	W/t	D/t F'y S	z	Weight	
(ft) Description	(in) (in)	(in ²)	(in⁴)	Ratio	Ratio (ksi) (in ³)	(in ³)	(lb)	
0.00	0.4375 41.700		12,632.4	22.86	95.31 79.8 585.2		0.0	
1.00 2.00	0.4375 41.555 0.4375 41.411		12,500.1 12,368.8	22.77 22.68	94.98 79.9 581.1 94.65 80.0 577.0	0.0 0.0	197.5 196.8	
3.00	0.4375 41.266	57.518	12,238.4	22.59	94.32 80.1 572.9	0.0	196.1	
4.00 5.00	0.4375 41.122 0.4375 40.977		12,108.8 11,980.3	22.51 22.42	93.99 80.2 568.9 93.66 80.3 564.8	0.0 0.0	195.4 194.7	
6.00	0.4375 40.833		11,852.6	22.33	93.33 80.4 560.8	0.0	194.0	
7.00 8.00	0.4375 40.688		11,725.8	22.24	93.00 80.5 556.7 92.67 80.6 552.7	0.0 0.0	193.3 192.6	
9.00	0.4375 40.544 0.4375 40.399		11,599.9 11,475.0	22.15 22.06	92.34 80.7 548.7	0.0	192.0	
10.00	0.4375 40.255	56.092	11,350.9	21.97	92.01 80.7 544.7	0.0	191.2	
11.00 12.00	0.4375 40.110 0.4375 39.966		11,227.8 11,105.5	21.89 21.80	91.68 80.8 540.8 91.35 80.9 536.8	0.0 0.0	190.5 189.8	
13.00	0.4375 39.821		10,984.1	21.71	91.02 81.0 532.9	0.0	189.1	
14.00	0.4375 39.677		10,863.6	21.62	90.69 81.1 529.0		188.4	
15.00 16.00	0.4375 39.532 0.4375 39.387	55.074 54.871	10,744.0 10,625.3	21.53 21.44	90.36 81.2 525.0 90.03 81.3 521.1	0.0 0.0	187.8 187.1	
17.00	0.4375 39.243	54.667	10,507.5	21.36	89.70 81.4 517.3	0.0	186.4	
18.00 19.00	0.4375 39.098 0.4375 38.954		10,390.5 10,274.4	21.27 21.18	89.37 81.5 513.4 89.04 81.6 509.5	0.0 0.0	185.7 185.0	
20.00	0.4375 38.809	54.056	10,159.2	21.09	88.71 81.7 505.7	0.0	184.3	
21.00	0.4375 38.665		10,044.8	21.00	88.38 81.8 501.9	0.0	183.6	
22.00 23.00	0.4375 38.520 0.4375 38.376	53.649 53.446	9,931.3 9,818.7	20.91 20.82	88.05 81.9 498.1 87.72 81.9 494.3	0.0 0.0	182.9 182.2	
24.00	0.4375 38.231	53.242	9,706.9	20.74	87.39 81.9 490.5	0.0	181.5	
25.00 26.00	0.4375 38.087 0.4375 37.942	53.038 52.835	9,595.9 9,485.8	20.65 20.56	87.06 81.9 486.7 86.72 81.9 483.0	0.0 0.0	180.8 180.1	
27.00	0.4375 37.798	52.631	9,376.6	20.30	86.39 81.9 479.2	0.0	179.4	
28.00	0.4375 37.653	52.427	9,268.2	20.38	86.06 81.9 475.5	0.0	178.7	
29.00 30.00	0.4375 37.509 0.4375 37.364	52.224 52.020	9,160.6 9,053.9	20.29 20.20	85.73 81.9 471.8 85.40 81.9 468.1	0.0 0.0	178.1 177.4	
31.00	0.4375 37.220	51.817	8,948.0	20.12	85.07 81.9 464.4	0.0	176.7	
32.00 33.00	0.4375 37.075 0.4375 36.930	51.613 51.409	8,842.9 8,738.7	20.03 19.94	84.74 81.9 460.8 84.41 81.9 457.1	0.0 0.0	176.0 175.3	
34.00	0.4375 36.786	51.206	8,635.3	19.85	84.08 81.9 453.5	0.0	174.6	
35.00	0.4375 36.641	51.002	8,532.7	19.76	83.75 81.9 449.9		173.9	
36.00 37.00	0.4375 36.497 0.4375 36.352	50.799 50.595	8,430.9 8,329.9	19.67 19.58	83.42 81.9 446.3 83.09 81.9 442.7	0.0 0.0	173.2 172.5	
38.00	0.4375 36.208	50.391	8,229.8	19.50	82.76 81.9 439.1	0.0	171.8	
39.00 40.00	0.4375 36.063 0.4375 35.919	50.188 49.984	8,130.4 8,031.9	19.41 19.32	82.43 81.9 435.5 82.10 81.9 432.0	0.0 0.0	171.1 170.4	
41.00	0.4375 35.774	49.781	7,934.1	19.23	81.77 81.9 428.5	0.0	169.7	
42.00	0.4375 35.630	49.577	7,837.1	19.14	81.44 81.9 424.9		169.0	
43.00 44.00	0.4375 35.485 0.4375 35.341	49.373 49.170	7,741.0 7,645.6	19.05 18.97	81.11 81.9 421.4 80.78 81.9 417.9		168.4 167.7	
44.75 Top - Section 1	0.4375 35.232	49.017	7,574.6	18.90	80.53 81.9 415.3	0.0	125.3	
44.75 Bot - Section 2 45.00	0.3750 35.232 0.3750 35.196	42.090 42.046	6,527.6 6,507.3	22.50 22.47	93.95 80.2 357.9 93.86 80.2 357.2		35.8	
46.00	0.3750 35.052	41.872	6,426.6	22.37	93.47 80.3 354.2		142.8	
47.00	0.3750 34.907	41.697	6,346.6	22.26	93.09 80.4 351.2		142.2	
48.00 49.00	0.3750 34.762 0.3750 34.618	41.523 41.348	6,267.2 6,188.5	22.16 22.06	92.70 80.5 348.3 92.31 80.7 345.3		141.6 141.0	
50.00	0.3750 34.473	41.174	6,110.5	21.95	91.93 80.8 342.4	0.0	140.4	
51.00 52.00	0.3750 34.329 0.3750 34.184	40.999 40.825	6,033.1 5,956.4	21.85 21.75	91.54 80.9 339.5 91.16 81.0 336.6		139.8 139.2	
53.00	0.3750 34.040	40.650	5,880.3	21.64	90.77 81.1 333.7	0.0	138.6	
54.00	0.3750 33.895	40.476	5,804.9	21.54	90.39 81.2 330.8		138.0	
55.00	0.3750 33.751	40.301	5,730.2	21.44	90.00 81.3 328.0	0.0	137.4	

Site Number:	: 302496				Code: A	NSI/TIA-222-G	© 2007	- 2018 by ATC	PLLC. All rights reserved.
Site Name:	Clch - Colch	nester, CT	Engir			DAA735982_C3_01			7/2/2018 6:10:25 PM
Customer:	AT&T MOBI	LITY							
	Section 2 Section 3	0.3750 33.606 0.3750 33.462 0.3750 33.317 0.3750 33.028 0.3750 32.884 0.3750 32.595 0.3750 32.450 0.3750 32.450 0.3750 32.450 0.3750 32.450 0.3750 32.450 0.3750 32.450 0.3750 32.450 0.3750 31.872 0.3750 31.872 0.3750 31.583 0.3750 31.583 0.3750 31.583 0.3750 31.294 0.3750 31.294 0.3750 31.149 0.3750 31.149 0.3750 31.05 0.3750 30.716 0.3750 30.571 0.3750 30.427 0.3750 30.427 0.3750 30.427 0.3750 30.427 0.3750 30.427 0.3750 29.933 0.3750 29.9415 0.3750 29.948 0.3750 29.704 0.3750 29.415 0.3750 29.306 0.2500 29.270 0.2500 27.825 0.2500 27.969 0.2500 27.969 0.2500 27.969 0.2500 27.910 0.2500 27.925 0.2500 27.925 0.2500 27.947 0.2500 27.947 0.2500 27.947 0.2500 27.947 0.2500 27.947 0.2500 25.946 0.2500 25.946 0.2500 25.946 0.2500 25.946 0.2500 25.946 0.2500 25.079 0.2500 25.079 0.2500 25.079 0.2500 25.079 0.2500 25.079 0.2500 24.934 0.2500 24.934 0.2500 24.934 0.2500 24.934 0.2500 24.934 0.2500 24.934 0.2500 24.934	40.127 39.952 39.778 39.603 39.429 39.254 39.080 38.905 38.731 38.556 38.381 38.207 38.032 37.858 37.683 37.509 37.334 37.509 37.334 37.509 36.811 36.636 36.462 36.287 36.113 35.938 35.764 35.589 35.240 35.066 34.935 23.390 23.361 23.245 23.390 23.361 23.245 23.390 23.361 23.245 23.390 23.361 23.245 23.390 23.361 23.245 23.129 23.012 22.663 22.547 22.431 22.663 22.547 22.431 22.663 22.547 22.431 22.663 22.547 22.431 22.663 22.547 22.663 22.547 22.431 22.663 22.547 23.361 23.245 22.663 22.547 22.663 22.547 22.663 22.547 22.663 22.547 22.663 22.547 22.663 20.200 21.383 21.267 21.951 21.987 20.366 20.569 20.453 20.366 20.200 20.104 19.987 19.871 19.755	5,656.0 5,582.6 5,509.7 5,437.5 5,365.9 5,295.0 5,224.7 5,155.0 5,017.5 4,949.7 4,882.5 4,949.7 4,882.5 4,949.7 4,882.5 4,619.7 4,684.5 4,619.7 4,243.5 4,4619.7 4,243.5 4,4619.7 4,243.5 4,4063.3 4,304.7 4,243.5 4,304.7 4,243.5 4,304.61 3,888.3 3,831.1 3,774.5 3,732.3 2,520.6 2,511.2 2,473.9 2,436.9 2,436.9 2,436.9 2,436.9 2,222.9 2,436.9 2,222.9 2,436.9 2,257.6 2,222.9 2,154.4 2,054.4 2,025.5 1,802.8 1,205.5 1,802.8 1,772.9 1,833.1 1,802.8 1,772.9 1,833.1 1,802.8 1,772.9 1,743.3 1,714.1 1,655.6 1,628.3 1,572.7 1,545.4 1,518.4	$\begin{array}{c} 21.33\\ 21.23\\ 21.23\\ 21.23\\ 21.23\\ 20.92\\ 20.82\\ 20.71\\ 20.61\\ 20.61\\ 20.20\\ 20.99\\ 19.99\\ 19.89\\ 19.68\\ 19.57\\ 19.27\\ 19.16\\ 18.95\\ 18.54\\ 18.37\\ 19.27\\ 19.16\\ 18.96\\ 18.75\\ 18.65\\ 18.54\\ 18.32\\ 28.69\\ 28.54\\ 28.38\\ 28.07\\ 27.76\\ 27.61\\ 27.45\\ 27.30\\ 27.76\\ 27.61\\ 27.45\\ 26.83\\ 26.68\\ 26.52\\ 26.57\\ 25.59\\ 25.59\\ 25.44\\ 25.28\\ 24.65\\ 25.59\\ 25.59\\ 25.44\\ 25.28\\ 24.65\\ 24.05\\ 23.89\\ 23.89\\ 23.89\\ 23.89\\ 24.65\\ 24.05\\ 23.89\\ 24.65\\ 24.05\\ 23.89\\ 25.28\\ 25.28\\ 25.28\\ 24.05\\ 23.89\\ 25.28\\ 25.28\\ 25.28\\ 25.28\\ 24.05\\ 25.28\\ 25$	89.62 81.4 325.1 89.23 81.6 322.3 88.85 81.7 319.5 88.46 81.8 316.7 88.07 81.9 313.9 87.69 81.9 305.3 86.92 81.9 305.3 86.53 81.9 300.0 85.76 81.9 297.3 85.38 81.9 294.6 84.99 81.9 291.9 84.61 81.9 283.9 83.45 81.9 284.2 81.9 283.9 83.45 81.9 276.0 82.29 81.9 277.7 81.52 81.9 265.6 80.75 81.9 265.6 80.75 81.9 265.6 80.75 81.9 265.7 79.98 81.9 257.9 79.60 81.9 257.9 79.60 81.9 257.9 79.60 81.9 255.4 79.98 81.9 257.9 79.60 81.9 255.4 79.21 81.9 257.9 79.60 81.9 257.9 79.60 81.9 257.9 79.60 81.9 257.9 79.60 81.9 257.9 79.60 81.9 257.9 79.60 81.9 257.9 79.60 81.9 257.9 79.60 81.9 257.9 79.60 81.9 257.9 79.76 81.9 <t< td=""><td>$\begin{array}{c} 0.0\\ 0.0\\ 0.0\\ 0.0\\ 0.0\\ 0.0\\ 0.0\\ 0.0$</td><td>136.8 136.2 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 133.3 132.7 131.5 130.9 130.3 129.7 129.1 128.5 127.9 127.3 126.7 125.6 125.0 124.4 123.8 122.0 121.4 120.8 122.0 121.4 120.8 120.2 119.6 89.3 19.9 78.5 78.1 77.7 75.3 74.9 74.5 74.1 73.8 73.4 73.0 72.6 72.7 71.4</td><td></td></t<>	$\begin{array}{c} 0.0\\ 0.0\\ 0.0\\ 0.0\\ 0.0\\ 0.0\\ 0.0\\ 0.0$	136.8 136.2 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 133.3 132.7 131.5 130.9 130.3 129.7 129.1 128.5 127.9 127.3 126.7 125.6 125.0 124.4 123.8 122.0 121.4 120.8 122.0 121.4 120.8 120.2 119.6 89.3 19.9 78.5 78.1 77.7 75.3 74.9 74.5 74.1 73.8 73.4 73.0 72.6 72.7 71.4	

...

-

Site Number: 3024	496	- 4.1%		Code: 4	ANSI/TIA-222-G		© 2007	- 2018 by AT	C IP LLC. All rights reserved.
	1 - Colchester, CT	Engi			DAA735982C3		2007	2010 2971	7/2/2018 6:10:25 PM
Customer: AT&		-	_						
118.00	0.2500 24.645	19.638	1,491.8	23.74	98.58 78.8 1	116.9	0.0	67.0	
119.00	0.2500 24.501	19.522	1,465.4	23.58	98.00 79.0 1	115.5	0.0	66.6	
120.00 121.00	0.2500 24.356 0.2500 24.212	19.405 19.289	1,439.4 1,413.6	23.43 23.27	97.42 79.2 1 96.85 79.3 1		0.0 0.0	66.2 65.8	
122.00	0.2500 24.067	19.173	1,388.2	23.12	96.27 79.5 1	111.4	0.0	65.4	
123.00 124.00	0.2500 23.923 0.2500 23.778	19.056 18.940	1,363.1 1,338.3	22.96 22.81	95.69 79.7 1 95.11 79.8 1		0.0 0.0	65.0 64.6	
125.00	0.2500 23.634	18.824	1,313.8	22.65	94.53 80.0 1	107.4	0.0	64.3	
125.50 Top - Section 125.50 Bot - Section 125.50 Bo		18.766 16.442	1,301.6 1,143.5	22.57 26.18	94.25 80.1 1 107.71 76.2	106.7 93.8	0.0 0.0	32.0	
126.00	0.2188 23.489	16.391	1,132.9	26.09	107.38 76.3	93.2	0.0	27.9	
127.00 128.00	0.2188 23.344 0.2188 23.200	16.289 16.187	1,111.9 1,091.2	25.92 25.74		92.0 90.9	0.0 0.0	55.6 55.3	
129.00	0.2188 23.055	16.086	1,070.8	25.56		90.9 89.7	0.0	54.9	
130.00 131.00	0.2188 22.911 0.2188 22.766	15.984 15.882	1,050.5	25.38		88.6 87.5	0.0	54.6	
132.00	0.2188 22.622	15.662	1,030.6 1,010.9	25.21 25.03		87.5 86.3	0.0 0.0	54.2 53.9	
133.00	0.2188 22.477	15.678	991.5	24.85		85.2	0.0	53.5	
134.00 135.00	0.2188 22.333 0.2188 22.188	15.577 15.475	972.3 953.3	24.68 24.50		84.1 83.0	0.0 0.0	53.2 52.8	
136.00	0.2188 22.044	15.373	934.7	24.32	100.77 78.2	81.9	0.0	52.5	
137.00 138.00	0.2188 21.899 0.2188 21.755	15.271 15.169	916.2 898.0	24.15 23.97		80.8 79.7	0.0 0.0	52.1 51.8	
139.00	0.2188 21.610	15.068	880.0	23.79	98.79 78.8	78.7	0.0	51.4	
140.00 141.00	0.2188 21.466 0.2188 21.321	14.966 14.864	862.3 844.8	23.61 23.44	98.13 79.0 97.47 79.2	77.6 76.5	0.0 0.0	51.1 50.8	
142.00	0.2188 21.177	14.762	827.6	23.26	96.81 79.3	75.5	0.0	50.4	
143.00 144.00	0.2188 21.032 0.2188 20.887	14.660 14.559	810.6 793.8	23.08 22.91		74.5 73.4	0.0 0.0	50.1 49.7	
145.00	0.2188 20.743	14.457	777.3	22.73	94.82 79.9	72.4	0.0	49.4	
146.00 147.00	0.2188 20.598 0.2188 20.454	14.355 14.253	761.0 744.9	22.55 22.37		71.4 70.4	0.0 0.0	49.0 48.7	
148.00	0.2188 20.309	14.151	729.1	22.20	92.84 80.5	69.3	0.0	48.3	
149.00 150.00	0.2188 20.165 0.2188 20.020	14.049 13.948	713.4 698.0	22.02 21.84		68.4 67.4	0.0 0.0	48.0 47.6	
151.00	0.2188 19.876	13.846	682.9	21.67	90.86 81.1	66.4	0.0	47.3	
152.00 153.00	0.2188 19.731 0.2188 19.587	13.744 13.642	667.9 653.2	21.49		65.4 64.4	0.0 0.0	46.9 46.6	
154.00	0.2188 19.442	13.540	638.7	21.31 21.14		63.5	0.0	46.2	
155.00 156.00	0.2188 19.298	13.439	624.4	20.96		62.5	0.0	45.9	
157.00	0.2188 19.153 0.2188 19.009	13.337 13.235	610.3 596.4	20.78 20.60		61.6 60.6	0.0 0.0	45.6 45.2	
158.00	0.2188 18.864	13.133	582.8	20.43	86.24 81.9	59.7	0.0	44.9	
159.00 160.00	0.2188 18.719 0.2188 18.575	13.031 12.930	569.3 556.1	20.25 20.07	85.57 81.9 84.91 81.9	58.8 57.8	0.0 0.0	44.5 44.2	
161.00	0.2188 18.430	12.828	543.0	19.90	84.25 81.9	56.9	0.0	43.8	
162.00 163.00	0.2188 18.286 0.2188 18.141	12.726 12.624	530.2 517.6	19.72 19.54		56.0 55.1	0.0 0.0	43.5 43.1	
164.00	0.2188 17.997	12.522	505.2	19.36	82.27 81.9	54.2	0.0	42.8	
165.00 166.00	0.2188 17.852 0.2188 17.708	12.421 12.319	493.0 480.9	19.19 19.01		53.3 52.5	0.0 0.0	42.4 42.1	
167.00	0.2188 17.563	12.217	469.1	18.83	80.29 81.9	51.6	0.0	41.7	
168.00 169.00	0.2188 17.419 0.2188 17.274	12.115 12.013	457.5 446.0	18.66 18.48	79.63 81.9 78.97 81.9	50.7 49.9	0.0 0.0	41.4 41.1	
170.00	0.2188 17.130	11.912	434.8	18.30	78.31 81.9	49.0	0.0	40.7	
171.00 172.00	0.2188 16.985 0.2188 16.841	11.810 11.708	423.7 412.9	18.13 17.95		48.2 47.4	0.0 0.0	40.4 40.0	
173.00	0.2188 16.696	11.606	402.2	17.77	76.32 81.9	46.5	0.0	39.7	
174.00 175.00	0.2188 16.551 0.2188 16.407	11.504 11.403	391.7 381.4	17.59 17.42		45.7 44.9	0.0 0.0	39.3 39.0	
176.00	0.2188 16.262	11.301	371.3	17.24	74.34 81.9	44.1	0.0	38.6	
177.00 178.00	0.2188 16.118 0.2188 15.973	11.199 11.097	361.3 351.6	17.06 16.89	73.68 81.9 73.02 81.9	43.3 42.5	0.0 0.0	38.3 37.9	
179.00	0.2188 15.829	10.995	342.0	16.71		41.7	0.0	37.6	

--+-

Site Number Site Name: Customer:	: 302496 Clch - Colchester, CT AT&T MOBILITY	Code: ANSI/TIA-222-G Engineering Number: OAA735982_C3_01						© 2007 - 2018 by ATC IP LLC. All rights reserved. 7/2/2018 6:10:25 PM				
180.00 180.58	0.2188 15.684 0.2188 15.600	10.894 10.834	332.6 327.2	16.53 16.43	71.70 81.9 71.31 81.9	41.0 40.5	0.0	37.2 21.6 3,938.1				

-

Site Name: Clch - Colchester, CT

Code: ANSI/TIA-222-G Engineering Number: OAA735982_C3_01

© 2007 - 2018 by ATC IP LLC. All rights reserved. 7/2/2018 6:10:25 PM

-

AT&T MOBILITY Customer:

Load Case: 1.2D + 1.6W	101 mph with No Ice	45 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

		Shaft Fo	orces	Discrete Forces				Linear Fo	orces	Sum of Forces			
Seg			Dead		Torsion	Moment	Dead		Dead	-	Dead	Torsion	Moment
Elev		Wind FX	Load	Wind F		MZ	Load	Wind FX		Wind FX	Load	MY	MZ
(ft)	Description	(lb)	(lb)	(lb)	(lb-ft)	(lb-ft)			(lb)	(lb)	(lb)		(lb)
		(u)	(0)	(U)	(10-11)	(in-iri)	(lb)	(lb)	(0)	(ID)	(u)	(lb-ft)	(0)
0.00		54.9	0.0					0.0	0.0		0.0	0.0	0.0
1.00		109.6	236.9					0.0	10.6	109.6	247.5	0.0	0.0
2.00		109.2	236.1					0.0	10.6	109.2	246.7	0.0	0.0
3.00		108.8	235.3					0.0	10.6	108.8	245.8	0.0	0.0
4.00		108.4	234.4					0.0	10.6	108.4	245.0	0.0	0.0
5.00		108.1	233.6					0.0	10.6	108.1	244.2	0.0	
6.00		107.7	232.8					0.0	10.6	107.7	243.3	0.0	0.0
7.00		107.3	232.0					0.0	10.6	107.3	242.5	0.0	0.0
8.00		106.9	231.1					0.0	10.6		241.7	0.0	0.0
9.00		106.5	230.3					0.0	10.6		240.9	0.0	0.0
10.00		106.1	229.5					0.0	10.6		240.0	0.0	0.0
11.00		105.8	228.6					0.0	10.6		239.2	0.0	0.0
12.00		105.4	227.8					0.0	10.6		238.4	0.0	0.0
13.00		105.0	227.0					0.0	10.6		237.5	0.0	0.0
14.00		104.6	226.1					0.0	10.6		236.7	0.0	0.0
15.00		104.2	225.3					0.0	10.6		235.9	0.0	0.0
16.00		103.9	224.5					0.0	10.6		235.0	0.0	
17.00		103.5	223.6					0.0	10.6		234.2	0.0	0.0
18.00		103.1	222.8					0.0	10.6		233.4	0.0	0.0
19.00		102.7	222.0					0.0	10.6		232.5	0.0	
20.00		102.3	221.1					0.0	10.6		231.7	0.0	
21.00		102.0	220.3					0.0	10.6		230.9	0.0	
22.00		101.6	219.5					0.0	10.6		230.0	0.0	
23.00		101.2	218.7					0.0	10.6		229.2	0.0	
24.00		100.8	217.8					0.0	10.6		228.4	0.0	
25.00		100.4	217.0					0.0	10.6		227.5	0.0	
26.00		100.0	216.2					0.0	10.6		226.7	0.0	
27.00		99.7	215.3					0.0	10.6		225.9	0.0	
28.00		99.3	214.5					0.0	10.6		225.1	0.0	0.0
29.00		98.9	213.7					0.0	10.6		224.2	0.0	
30.00		98.8	212.8					0.0	10.6		223.4	0.0	
31.00		99.1	212.0					0.0	10.6		222.6	0.0	
32.00		99.7	211.2					0.0	10.6		221.7	0.0	0.0
33.00		100.2	210.3					0.0	10.6		220.9	0.0	0.0
34.00		100.6	209.5					0.0	10.6		220.1	0.0	0.0
35.00		101.1	208.7					0.0	10.6		219.2	0.0	0.0
36.00		101.5	207.8					0.0	10.6		218.4	0.0	
37.00		101.9	207.0					0.0	10.6		217.6	0.0	0.0
38.00		102.2	206.2					0.0	10.6		216.7	0.0	
39.00		102.6	205.3					0.0	10.6		215.9	0.0	
40.00		102.9	204.5					0.0	10.6		215.1	0.0	
41.00		103.2	203.7					0.0	10.6		214.2		
42.00		103.5	202.9					0.0	10.6		213.4	0.0	
43.00		103.8	202.0					0.0	10.6		212.6		
44.00		91.0	201.2					0.0	10.6		211.8		
44.75	Top - Section 1	52.1	150.3					0.0	7.9		158.3		0.0
45.00		65.2	42.9					0.0	2.6		45.6		0.0

Site Number: 3	02496
----------------	-------

Site Name: Clch - Colchester, CT

ester, CT Engineer

Code: ANSI/TIA-222-G Engineering Number: OAA735982_C3_01 © 2007 - 2018 by ATC IP LLC. All rights reserved. 7/2/2018 6:10:31 PM

-

Load Case: 1.2D + 1.6W			101 mph with No Ice					45 Itera	tions
Gust Response Factor 1.10)					Wind Ir	nportanc	e Factor	1.00
Dead Load Factor : 1.20							•		
Wind Load Factor :1.60)								
46.00	104.5	171.3		0.0	10.6	104.5	181.9	0.0	0.0
47.00	104.7	170.6		0.0	10.6	104.7	181.2	0.0	0.0
48.00	104.9	169.9		0.0	10.6	104.9	180.5	0.0	0.0
49.00	105.1	169.2 169.5		0.0	10.6	105.1	179.8	0.0	0.0
50.00 51.00	105.3 105.4	168.5 167.8		0.0 0.0	10.6 10.6	105.3 105.4	179.0 178.3	0.0 0.0	0.0 0.0
52.00	105.6	167.1		0.0	10.6	105.6	177.6	0.0	0.0
53.00	105.7	166.3		0.0	10.6	105.7	176.9	0.0	0.0
54.00	105.8	165.6		0.0	10.6	105.8	176.2	0.0	0.0
55.00	105.9	164.9		0.0	10.6	105.9	175.5	0.0	0.0
56.00 57.00	106.0 106.1	164.2 163.5		0.0 0.0	10.6 10.6	106.0 106.1	174.8 174.1	0.0 0.0	0.0 0.0
58.00	106.2	162.8		0.0	10.6	106.2	173.3	0.0	0.0
59.00	106.2	162.1		0.0	10.6	106.2	172.6	0.0	0.0
60.00	106.3	161.4		0.0	10.6	106.3	171.9	0.0	0.0
61.00	106.3	160.6		0.0	10.6	106.3	171.2	0.0	0.0
62.00 63.00	106.3 106.3	159.9 159.2		0.0 0.0	10.6 10.6	106.3 106.3	170.5 169.8	0.0 0.0	0.0 0.0
64.00	106.3	159.2		0.0	10.6	106.3	169.8	0.0	0.0
65.00	106.3	157.8		0.0	10.6	106.3	168.4	0.0	0.0
66.00	106.3	157.1		0.0	10.6	106.3	167.6	0.0	0.0
67.00	106.3	156.4		0.0	10.6	106.3	166.9	0.0	0.0
68.00	106.3	155.7		0.0	10.6	106.3	166.2	0.0	0.0
69.00 70.00	106.2 106.2	154.9 154.2		0.0 0.0	10.6 10.6	106.2 106.2	165.5 164.8	0.0 0.0	0.0 0.0
71.00	106.1	153.5		0.0	10.6	106.1	164.1	0.0	0.0
72.00	106.1	152.8		0.0	10.6	106.1	163.4	0.0	0.0
73.00	106.0	152.1		0.0	10.6	106.0	162.7	0.0	0.0
74.00	105.9	151.4		0.0	10.6	105.9	161.9	0.0	0.0
75.00 76.00	105.8 105.7	150.7 150.0		0.0 0.0	10.6 10.6	105.8 105.7	161.2 160.5	0.0 0.0	0.0 0.0
77.00	105.6	149.2		0.0	10.6	105.6	159.8	0.0	0.0
78.00	105.5	148.5		0.0	10.6	105.5	159.1	0.0	0.0
79.00	105.4	147.8		0.0	10.6	105.4	158.4	0.0	0.0
80.00	105.3	147.1		0.0	10.6	105.3	157.7	0.0	0.0
81.00 82.00	105.1 105.0	146.4 145.7		0.0 0.0	10.6 10.6	105.1 105.0	157.0 156.2	0.0 0.0	0.0 0.0
83.00	103.0	145.0		0.0	10.6	103.0	155.5	0.0	0.0
84.00	104.7	144.3		0.0	10.6	104.7	154.8	0.0	0.0
85.00	91.5	143.5		0.0	10.6	91.5	154.1	0.0	0.0
85.75 Top - Section 2	52.2	107.2		0.0	7.9	52.2	115.1	0.0	0.0
86.00 87.00	65.2 104.2	23.9 95.2		0.0 0.0	2.6 10.6	65.2 104.2	26.5 105.7	0.0 0.0	0.0 0.0
88.00	104.2	93.2 94.7		0.0	10.6	104.2	105.7	0.0	0.0
89.00	103.8	94.2		0.0	10.6	103.8	104.8	0.0	0.0
90.00	103.6	93.7		0.0	10.6	103.6	104.3	0.0	0.0
91.00	103.4	93.3		0.0	10.6	103.4	103.8	0.0	0.0
92.00 93.00	103.2 103.0	92.8 92.3		0.0 0.0	10.6 10.6	103.2 103.0	103.3 102.9	0.0 0.0	0.0 0.0
94.00	103.0	91.8		0.0	10.6	103.0	102.5	0.0	0.0
95.00	102.6	91.4		0.0	10.6	102.6	101.9	0.0	0.0
96.00	102.4	90.9		0.0	10.6	102.4	101.4	0.0	0.0
97.00	102.2	90.4		0.0	10.6	102.2	101.0	0.0	0.0
98.00 99.00	101.9 101. 7	89.9 89.5		0.0 0.0	10.6 10.6	101.9 101.7	100.5 100.0	0.0 0.0	0.0 0.0
100.00	101.4	89.0		0.0	10.6	101.7	99.5	0.0	0.0
101.00	101.2	88.5		0.0	10.6	101.2	99.1	0.0	0.0

Site	Number:	302496
0100	Number.	302430

Code: ANSI/TIA-222-G Engineering Number: OAA735982_C3_01

© 2007 - 2018 by ATC IP LLC. All rights reserved. 7/2/2018 6:10:31 PM

Site Name: Clch - Colchester, CT Customer: AT&T MOBILITY

Load Case: 1.2D + 1.6W	V		101 mph with No Ice					45 Itera	tions
Gust Response Factor 1. Dead Load Factor : 1. Wind Load Factor : 1.4	20					Wind Ir	nportanc	e Factor	1.00
102.00	100.9	88.0	·····	0.0	10.6	100.9	98.6	0.0	0.0
103.00	100.7	87.6		0.0	10.6	100.7	98.1	0.0	0.0
104.00 105.00	100.4 100.1	87.1 86.6		0.0 0.0	10.6 10.6	100.4 100.1	97.6 97.2	0.0 0.0	0.0 0.0
106.00	99.9	86.1		0.0	10.0	99.9	96.7	0.0	0.0
107.00	99.6	85.7		0.0	10.6	99.6	96.2	0.0	0.0
108.00	99.3	85.2		0.0	10.6	99.3	95.7	0.0	0.0
109.00	99.0	84.7		0.0	10.6	99.0	95.3	0.0	0.0
110.00	98.7	84.2		0.0	10.6	98.7	94.8	0.0	0.0
111.00 112.00	98.4 98.1	83.8 83.3		0.0 0.0	10.6 10.6	98.4 98.1	94.3 93.8	0.0 0.0	0.0 0.0
113.00	97.8	82.8		0.0	10.6	97.8	93.8 93.4	0.0	0.0
114.00	97.5	82.3		0.0	10.6	97.5	92.9	0.0	0.0
115.00	97.2	81. 9		0.0	10.6	97.2	92.4	0.0	0.0
116.00	96.8	81.4		0.0	10.6	96.8	91.9	0.0	0.0
117.00	96.5	80.9		0.0	10.6	96.5	91.5	0.0	0.0
118.00 119.00	96.2 95.9	80.4 80.0		0.0 0.0	10.6 10.6	96.2 95.9	91.0 90.5	0.0 0.0	0.0 0.0
120.00	95.5	79.5		0.0	10.6	95.5	90.0	0.0	0.0
121.00	95.2	79.0		0.0	10.6	95.2	89.6	0.0	0.0
122.00	94.8	78.5		0.0	10.6	94.8	89.1	0.0	0.0
123.00	94.5	78.1		0.0	10.6	94.5	88.6	0.0	0.0
124.00 125.00	94.1 70.4	77.6		0.0	10.6	94.1	88.1	0.0	0.0
125.00 125.50 Top - Section 3	46.8	77.1 38.4		0.0 0.0	10.6 5.3	70.4 46.8	87.7 43.7	0.0 0.0	0.0 0.0
126.00	70.0	33.5		0.0	5.3	70.0	38.8	0.0	0.0
127.00	93.0	66.7		0.0	10.6	93.0	77.3	0.0	0.0
128.00	92.7	66.3		0.0	10.6	92.7	76.9	0.0	0.0
129.00 130.00	92.3 91.9	65.9 65.5		0.0	10.6	92.3	76.5	0.0	0.0
131.00	91.9 91.5	65.1		0.0 0.0	10.6 10.6	91.9 91.5	76.0 75.6	0.0 0.0	0.0 0.0
132.00	91.2	64.6		0.0	10.6	91.2	75.2	0.0	0.0
133.00	90.8	64.2		0.0	10.6	90.8	74.8	0.0	0.0
134.00	90.4	63.8		0.0	10.6	90.4	74.4	0.0	0.0
135.00	90.0	63.4		0.0	10.6	90.0	74.0	0.0	0.0
136.00 137.00	89.6 89.2	63.0 62.6		0.0 0.0	10.6 10.6	89.6 89.2	73.5 73.1	0.0 0.0	0.0 0.0
138.00	88.8	62.1		0.0	10.6	88.8	72.7	0.0	0.0
139.00	88.4	61.7		0.0	10.6	88.4	72.3	0.0	0.0
140.00	88.0	61.3		0.0	10.6	88.0	71.9	0.0	0.0
141.00	87.6	60.9		0.0	10.6	87.6	71.5	0.0	0.0
142.00 143.00	87.1 86.7	60.5 60.1		0.0	10.6	87.1	71.0	0.0	0.0
143.00	86.7 86.3	60.1 59.7		0.0 0.0	10.6 10.6	86.7 86.3	70.6 70.2	0.0 0.0	0.0 0.0
145.00	85.9	59.2		0.0	10.6	85.9	69.8	0.0	0.0
146.00	85.4	58.8		0.0	10.6	85.4	69.4	0.0	0.0
147.00	85.0	58.4		0.0	10.6	85.0	69.0	0.0	0.0
148.00 149.00	84.6 84.1	58.0		0.0	10.6	84.6	68.6	0.0	0.0
150.00	84.1 83.7	57.6 57.2		0.0 0.0	10.6 10.6	84.1 83.7	68.1 67.7	0.0 0.0	0.0 0.0
151.00	83.2	56.7		0.0	10.6	83.2	67.3	0.0	0.0
152.00	82.8	56.3		0.0	10.6	82.8	66.9	0.0	0.0
153.00	82.3	55.9		0.0	10.6	82.3	66.5	0.0	0.0
154.00	81.9	55.5		0.0	10.6	81.9	66.1	0.0	0.0
155.00	81.4	55.1		0.0	10.6	81.4	65.6	0.0	0.0
156.00 157.00	81.0 80.5	54.7 54.3		0.0	10.6	81.0	65.2	0.0	0.0 0.0
137.00	00.5	54.3		0.0	10.6	80.5	64.8	0.0	0.0

Code: ANSI/TIA-222-G Engineering Number: OAA735982_C3_01

© 2007 - 2018 by ATC IP LLC. All rights reserved. 7/2/2018 6:10:31 PM

Site Name: Clch - Colchester, CT Customer: AT&T MOBILITY

Load Case: 1.2D + 1.6W			101	mph with No lo	:0					45 Itera	ations
Gust Response Factor 1.10 Dead Load Factor :1.20 Wind Load Factor :1.60)							Wind	Importanc	ce Factor	1.00
158.00	80.0	53.8				0.0	10.6	80.0	64.4	0.0	0.0
159.00	79.6	53.4				0.0	10.6	79.6	64.0	0.0	0.0
160.00	79.1	53.0				0.0	10.6	79.1	63.6	0.0	0.0
161.00	78.6	52.6				0.0	10.6	78.6	63.1	0.0	0.0
162.00	78.1	52.2				0.0	10.6	78.1	62.7	0.0	0.0
163.00	77.7	51.8				0.0	10.6	77.7	62.3	0.0	0.0
164.00	77.2	51.3				0.0	10.6	77.2	61.9	0.0	0.0
165.00	76.7	50.9				0.0	10.6	76.7	61.5	0.0	0.0
166.00	76.2	50.5				0.0	10.6	76.2	61.1	0.0	0.0
167.00	75.7	50.1				0.0	10.6	75.7	60.7	0.0	0.0
168.00	75.2	49.7				0.0	10.6	75.2	60.2	0.0	0.0
169.00	74.7	49.3				0.0	10.6	74.7	59.8	0.0	0.0
170.00	74.2	48.8				0.0	10.6	74.2	59.4	0.0	0.0
171.00	73.7	48.4				0.0	10.6	73.7	59.0	0.0	0.0
172.00	73.2	48.0				0.0	10.6	73.2	58.6	0.0	0.0
173.00	72.7	47.6				0.0	10.6	72.7	58.2	0.0	0.0
174.00	72.2	47.2				0.0	10.6	72.2	57.7	0.0	0.0
175.00	71.7	46.8				0.0	10.6	71.7	57.3	0.0	0.0
176.00	71.2	46.4				0.0	10.6	71.2	56.9	0.0	0.0
177.00	70.6	45.9				0.0	10.6	70.6	56.5	0.0	0.0
178.00	70.1	45.5				0.0	10.6	70.1	56.1	0.0	0.0
179.00	69.6	45.1				0.0	10.6	69.6	55.7	0.0	0.0
180.00 Appurtenance(s)	54.8	44.7	4,088.4	0.0 13,500.8	3,773.2	0.0	10.6	4,143.2	3,828.4	0.0	0.0
180.58	20.1	25.9				0.0	0.0	20.1	25.9	0.0	0.0
						Tota	als:	21,523.88	28,399.62	0.00	0.00

Site Name: Clch - Colchester, CT Customer: AT&T MOBILITY

Code: ANSI/TIA-222-G Engineering Number: OAA735982_C3_01

© 2007 - 2018 by ATC IP LLC. All rights reserved. 7/2/2018 6:10:31 PM

Wind Importance Factor 1.00

Customer: AT&T MOBILIT

Load Case: 1.2D + 1.6W

101 mph with No Ice

45 Iterations

-

Gust Response Factor 1.10 Dead Load Factor :1.20

Wind Load Factor : 1.60

Calculated Forces

_

Seg Elev (ft)	Pu FY (-)	Vu FX (-)	Tu MY (ft king)	Mu MZ	Mu MX	Resultant Moment	P		phi Vn	phi Tn	phi Mn	Total Deflect F		Dette
 (1)	(kips)	(kips)	(ft-kips)	(ft-kips)	(it-kips)	(ft-kips)	(K)	ps)	(kips)	(it-kips)	(ft-kips)	(in)	(deg)	Ratio
0.00	-28.39	-21.48	0.00	-2,385.75	0.00	2,385.75	4,173	3.88	2,086.94	7,090.68	3,501.82	0.00	0.00	0.688
1.00	-28.12	-21.40	0.00	-2,364.27	0.00	2,364.27			2,082.15			0.01	-0.05	0.686
2.00	-27.86	-21.32		-2,342.87	0.00	2,342.87			2,077.34			0.02	-0.11	0.684
3.00	-27.59	-21.23		-2,321.56		2,321.56			2,072.51			0.05	-0.16	0.681
4.00 5.00	-27.33 -27.06	-21.15		-2,300.32		2,300.32			2,067.66			0.09	-0.21	0.679
5.00 6.00	-26.80	-21.06 -20.98		-2,279.18 -2,258.11	0.00 0.00	2,279.18 2,258.11			2,062.80			0.14	-0.27 -0.32	0.677
7.00	-26.54	-20.90		-2,237.13	0.00	2,238.11			2,057.92 2,053.02			0.20 0.28	-0.32 -0.38	0.675 0.672
8.00	-26.28	-20.81	0.00	-2,216.23	0.00	2,216.23			2,033.02			0.26	-0.43	0.670
9.00	-26.02	-20.73	0.00	-2,195.42		2,195.42			2,043.16			0.46	-0.48	0.668
10.00	-25.76	-20.65		-2,174.69	0.00	2,174.69	4,076	6. 42	2,038.21	6,680.00	3,299.00	0.57	-0.54	0.666
11.00	-25.50	-20.56		-2,154.05	0.00	2,154.05			2,033.24			0.68	-0.59	0.663
12.00	-25.24	-20.48		-2,133.49	0.00	2,133.49			2,028.25			0.81	-0.65	0.661
13.00 14.00	-24.99 -24.73	-20.39 -20.31		-2,113.01	0.00	2,113.01			2,023.25			0.96	-0.70	0.659
14.00	-24.73	-20.31	0.00	-2,092.82	0.00 0.00	2,092.62 2,072.31			2,018.22 2,013.18		•	1.11 1.27	-0.76 -0.81	0.656 0.654
16.00	-24.23	-20.23	0.00	-2,052.08	0.00	2,052.08			2,008.12			1.45	-0.81	0.652
17.00	-23.98	-20.06	0.00	-2,031.94	0.00	2,031.94			2,003.05			1.64	-0.92	0.649
18.00	-23.73	-19.97	0.00	-2,011.88	0.00	2,011.88			1,997.95			1.83	-0.97	0.647
19.00	-23.48	-19.89		-1,991.91	0.00	1,991.91			1,992.84			2.04	-1.03	0.645
20.00	-23.23	-19.80		-1,972.02		1,972.02			1,987.71			2.27	-1.08	0.642
21.00 22.00	-22.98 -22.73	-19.72		-1,952.22		1,952.22			1,982.56			2.50	-1.14	0.640
22.00	-22.73	-19.64 -19.55		-1,932.50	0.00 0.00	1,932.50 1,912.87			1,977.24 1,969.74			2.74	-1.19 -1.25	0.638 0.636
24.00	-22.24	-19.33	0.00	-1,893.32		1,912.07			1,969.74	•		3.00 3.27	-1.25	0.634
25.00	-22.00	-19.38	0.00	-1,873.85	0.00	1,873.85			1,954.73			3.55	-1.36	0.632
26.00	-21.76	-19.30	0.00	-1,854.47	0.00	1,854.47			1,947.22			3.84	-1.41	0.631
27.00	-21.51	-19.21		-1,835.17	0.00	1,835.17			1,939.72			4.14	-1.47	0.629
28.00	-21.27	-19.13		-1,815.96		1,815.96			1,932.22			4.45	-1.53	0.627
29.00	-21.03	-19.04		-1,796.83		1,796.83	3,849	9.42	1,924.71	5,868.24	2,898.10	4.78	-1.58	0.626
30.00 31.00	-20.79 -20.56	-18.96 -18.87		-1,777.79	0.00 0.00	1,777.79 1,758.83			1,917.21			5.12	-1.64	0.624 0.622
32.00	-20.30	-18.79		-1,739.95	0.00	1,739.95			1,909.70 1,902.20			5.47 5.83	-1.69 -1.75	0.622
33.00	-20.08	-18.70		-1,721.17		1,721.17			1,894.70			6.20	-1.80	0.618
34.00	-19.85	-18.61		-1,702.47		1,702.47			1,887.19			6.58	-1.86	0.617
35.00	-19.61	-18.52	0.00	-1,683.86		1,683.86			1,879.69			6.98	-1.91	0.615
36.00	-19.38	-18.43	0.00	-1,665.34	2 2 2 2 2	1,665.34			1,872.18			7.38	-1.97	0.613
37.00 38.00	-19.15 -18.92	-18.34 -18.25	0.00	-1,646.90		1,646.90			1,864.68			7.80	-2.03	0.611
39.00	-18.69	-18.16		-1,628.56	0.00 0.00	1,628.56 1,610.31			1,857.18			8.23	-2.08	0.609 0.607
40.00	-18.46	-18.06	0.00	-1,592.16	0.00	1,592.16			1,849.67 1,842.17			8.68 9.13	-2.14 -2.19	0.605
41.00	-18.23	-17.97	0.00	-1,574.09	0.00	1,574.09			1,834.66			9.60	-2.25	0.603
42.00	-18.01	-17.88		-1,556.12		1,556.12			1,827.16			10.07	-2.31	0.601
	-17.78	-17.78		-1,538.24		1,538.24	3,639	9.31	1,819.66	5,241.59	2,588.62	10.56	-2.36	0.599
44.00	-17.56	-17.70	0.00	-1,520.46	0.00	1,520.46			1,812.15			11.06	-2.42	0.597
44.75 44.75	-17.39 -17.39	-17.65		-1,507.19		1,507.19			1,806.52			11.45	-2.46	0.596
44.75	-17.39	-17.65 -17.59		-1,507.19	0.00 0.00	1,507.19 1,502.78			1,518.66 1,517.62			11.45 11.58	-2.46 -2.48	0.706 0.705
46.00	-17.14	-17.50		-1,485.19	0.00	1,502.78			1,517.62			12.10	-2.40 -2.54	0.703
47.00	-16.95	-17.41	0.00	-1,467.69	0.00	1,467.69			1,509.25			12.64	-2.61	0.698
48.00	-16.75	-17.31	0.00	-1,450.28	0.00	1,450.28	-		1,505.04	-	•	13.19	-2.67	0.695

Site Name: Clch - Colchester, CT

Code: ANSI/TIA-222-G Engineering Number: OAA735982_C3_01 © 2007 - 2018 by ATC IP LLC. All rights reserved. 7/2/2018 6:10:31 PM

Load Case: 1.2	D + 1.6W		01 mph with N	lo ice		45 Itera	tions
Gust Response F					nportance		
Dead Load Fa Wind Load Fa							
		-1,432.97 0.00	1,432.97	3,001.62 1,500.81 4,230.28 2,089.1	/ 13.76	-2.74	0.692
50.00 -16.36	-17.12 0.00	-1,415.75 0.00 -1,398.63 0.00	1,415.75	2,993.12 1,496.56 4,200.31 2,074.3	/ 14.34	-2.80	0.688
52.00 -15.98	-16.93 0.00	-1,381.61 0.00	1,381.61	2,984.59 1,492.30 4,170.39 2,059.60 2,976.02 1,488.01 4,140.52 2,044.83	5 15.54	-2.87 -2.93	0.685 0.681
		-1,364.67 0.00 -1,347.84 0.00		2,967.42 1,483.71 4,110.71 2,030.1 2,958.79 1,479.39 4,080.96 2,015.4		-3.00 -3.06	0.678 0.674
		-1,331.10 0.00 -1,314.47 0.00	1,331.10	2,950.11 1,475.06 4,051.26 2,000.7 2,941.41 1,470.70 4,021.62 1,986.1	6 17.45	-3.13 -3.20	0.671 0.667
57.00 -15.04	-16.44 0.00	-1,297.93 0.00	1,297.93	2,932.66 1,466.33 3,992.03 1,971.5	18.79	-3.26	0.664
		-1,281.48 0.00 -1,265.14 0.00		2,923.89 1,461.94 3,962.50 1,956.9 2,915.07 1,457.54 3,933.03 1,942.3		-3.33 -3.39	0.660 0.656
		-1,248.90 0.00 -1,232.75 0.00		2,906.28 1,453.14 3,903.69 1,927.8 2,893.42 1,446.71 3,869.02 1,910.7		-3.46 -3.52	0.653 0.650
	-15.94 0.00	-1,216.71 0.00 -1,200.76 0.00	1,216.71	2,880.56 1,440.28 3,834.50 1,893.7	22.37	-3.59	0.648
64.00 -13.76	-15.74 0.00	-1,184.92 0.00	1,184.92	2,867.69 1,433.85 3,800.13 1,876.7- 2,854.83 1,427.41 3,765.92 1,859.8-	23.90	-3.66 -3.72	0.645
66.00 -13.40	-15.54 0.00	-1,169.18 0.00 -1,153.54 0.00		2,841.96 1,420.98 3,731.86 1,843.0 2,829.10 1,414.55 3,697.96 1,826.2		-3.79 -3.85	0.639 0.636
		-1,138.00 0.00 -1,122.56 0.00		2,816.24 1,408.12 3,664.21 1,809.6 2,803.37 1,401.69 3,630.61 1,793.0		-3.92 -3.99	0.634 0.631
69.00 -12.87	-15.23 0.00	-1,107.23 0.00 -1,092.00 0.00	1,107.23	2,790.51 1,395.25 3,597.18 1,776.5	27.97	-4.05	0.628
71.00 -12.52	-15.03 0.00	-1,076.87 0.00	1,076.87	2,777.64 1,388.82 3,563.89 1,760.0 2,764.78 1,382.39 3,530.76 1,743.7	l 29.70	-4.12 -4.18	0.625 0.622
		-1,061.84 0.00 -1,046.92 0.00		2,751.92 1,375.96 3,497.79 1,727.4 2,739.05 1,369.53 3,464.97 1,711.2		-4.25 -4.31	0.619 0.616
		-1,032.11 0.00 -1,017.39 0.00		2,726.19 1,363.09 3,432.30 1,695.0 2,713.32 1,356.66 3,399.79 1,679.0	32.39	-4.38 -4.45	0.613 0.610
76.00 -11.67	-14.50 0.00	-1,002.78 0.00	1,002.78	2,700.46 1,350.23 3,367.44 1,663.0	5 34.25	-4.51	0.607
78.00 -11.34	-14.30 0.00	-988.28 0.00 -973.88 0.00	973.88	2,687.60 1,343.80 3,335.24 1,647.1 2,674.73 1,337.37 3,303.19 1,631.3	2 36.16	-4.58 -4.64	0.604 0.601
	-14.19 0.00 -14.08 0.00	-959.58 0.00 -945.39 0.00		2,661.87 1,330.93 3,271.30 1,615.5 2,649.00 1,324.50 3,239.56 1,599.9		-4.71 -4.78	0.598 0.595
	-13.98 0.00 -13.87 0.00	-931.31 0.00 -917.33 0.00		2,636.14 1,318.07 3,207.98 1,584.3 2,623.28 1,311.64 3,176.55 1,568.7) 39.14	-4.84 -4.91	0.592 0.589
83.00 -10.52	-13.77 0.00	-903.46 0.00	903.46	2,610.41 1,305.21 3,145.28 1,553.3	3 41.19	-4.97	0.586
85.00 -10.20	-13.66 0.00 -13.57 0.00	-889.69 0.00 -876.03 0.00	876.03	2,597.55 1,298.77 3,114.16 1,537.9 2,584.68 1,292.34 3,083.20 1,522.6	3 43.30	-5.04 -5.10	0.583 0.579
	-13.51 0.00 -13.51 0.00	-865.85 0.00 -865.85 0.00		2,575.04 1,287.52 3,060.08 1,511.2 1,544.73 772.37 1,851.60 914.4		-5.15 -5.15	0.577 0.954
0700 000	-13.45 0.00 -13.36 0.00	-862.48 0.00 -849.02 0.00		1,543.70 771.85 1,848.04 912.60 1,539.55 769.77 1,833.81 905.6	3 44.38	-5.17 -5.27	0.952 0.944
88.00 -9.81	-13.26 0.00	-835.66 0.00	835.66	1,535.36 767.68 1,819.59 898.63	46.58	-5.36	0.937
90.00 -9.58	-13.16 0.00 -13.07 0.00	-822.40 0.00 -809.24 0.00		1,531.13 765.57 1,805.38 891.6 1,526.87 763.44 1,791.17 884.59		-5.46 -5.56	0.929 0.921
	-12.97 0.00 -12.87 0.00	-796.18 0.00 -783.21 0.00		1,522.58 761.29 1,776.98 877.58 1,518.25 759.12 1,762.79 870.58		-5.65 -5.75	0.914 0.906
93.00 -9.24	-12.77 0.00 -12.68 0.00	-770.33 0.00 -757.56 0.00	770.33	1,513.88 756.94 1,748.62 863.5 1,509.48 754.74 1,734.46 856.5	52.44	-5.85 -5.94	0.898 0.891
95.00 -9.01	-12.58 0.00	-744.88 0.00	744.88	1,505.04 752.52 1,720.31 849.60	54.93	-6.04	0.883
97.00 -8.79	-12.48 0.00 -12.38 0.00	-732.30 0.00 -719.82 0.00	719.82	1,500.57 750.29 1,706.18 842.6 1,496.06 748.03 1,692.06 835.6	57.49	-6.13 -6.23	0.875 0.868
	-12.29 0.00 -12.19 0.00	-707.44 0.00 -695.15 0.00		1,491.52 745.76 1,677.95 828.6 1,486.94 743.47 1,663.86 821.7		-6.33 -6.42	0.860 0.852
100.00 -8.47	-12.09 0.00 -11.99 0.00	-682.96 0.00 -670.87 0.00	682.96	1,482.33 741.16 1,649.78 814.7	61.49	-6.52	0.844
102.00 -8.25	-11.89 0.00	-658.88 0.00	658.88	1,477.68 738.84 1,635.72 807.8 1,473.00 736.50 1,621.68 800.8	64.26	-6.61 -6.71	0.836 0.829
103.00 -8.15	-11.80 0.00	-646.99 0.00	646.99	1,468.28 734.14 1,607.66 793.9	65.67	-6.80	0.821

Site Name: Clch - Colchester, CT

Code: ANSI/TIA-222-G Engineering Number: OAA735982_C3_01 © 2007 - 2018 by ATC IP LLC. All rights reserved. 7/2/2018 6:10:32 PM

-

Load C	<u>ase:</u> 1.	2D + 1.6V	V		101	mph with l	No Ice				45 Itera	tions
Dead	I Load F	Factor 1. Factor : 1.	20						Wind Im	portance	Factor 1	1.00
		actor :1.										
104.00 105.00	-8.04 -7.94	-11.70 -11.60	0.00 0.00	-635.19 -623.49	0.00 0.00	635.19 623.49	1,463.52 731.76 1,458.73 729.37		787.04 780.14	67.10 68.55	-6.90 -6.99	0.813 0.805
106.00 107.00	-7.84 -7.74	-11.50 -11.40	0.00 0.00	-611.89 -600.39	0.00	611.89 600.39	1,453.91 726.95	1,565.69	773.24	70.02	-7.09	0.7 97
108.00	-7.64	-11.31	0.00	-588.98	0.00 0.00	588.98	1,449.04 724.52 1,444.15 722.07		766.35 759.47	71.51 73.02	-7.18 -7.27	0.789 0.781
109.00	-7.54	-11.21	0.00	-577.68	0.00	577.68	1,439.21 719.61	1,523.91	752.60	74.55	-7.37	0.773
110.00 111.00	-7.44 -7.34	-11.11 -11.01	0.00 0.00	-566.47 -555.36	0.00 0.00	566.47 555.36	1,434.25 717.12 1,429.24 714.62		745.75 738.90	76.10 77.67	-7.46 -7.55	0.765 0.757
112.00	-7.24	-10.91	0.00	-544.34	0.00	544.34	1,424.21 712.10	1,482.33	732.07	79.26	-7.65	0.749
113.00 114.00	-7.14 -7.05	-10.82 -10.72	0.00 0.00	-533.43 -522.61	0.00 0.00	533.43 522.61	1,419.13 709.57 1,414.02 707.01		725.24 718.43	80.86 82.49	-7.74 -7.83	0.741 0.733
115.00	-6.95	-10.62	0.00	-511.89	0.00	511.89	1,408.88 704.44		711.64	84.14	-7.92	0.733
116.00	-6.86	-10.52	0.00	-501.27	0.00	501.27	1,403.70 701.85	1,427.22	704.85	85.80	-8.02	0.716
117.00 118.00	-6.76 -6.67	-10.43 -10.33	0.00 0.00	-490.75 -480.32	0.00 0.00	490.75 480.32	1,398.48 699.24 1,393.23 696.62		698.08 691.32	87.48 89.19	-8.11 -8.20	0.708 0.700
119.00	-6.58	-10.23	0.00	-470.00	0.00	470.00	1,387.95 693.97	1,386.17	684.58	90.91	-8.29	0.692
120.00 121.00	-6.49 -6.40	-10.13 -10.04	0.00 0.00	-459.76 -449.63	0.00 0.00	459.76 449.63	1,382.63 691.31 1,377.27 688.64		677.85 671.13	92.65 94.40	-8.38 -8.47	0.683 0.675
122.00	-6.31	-9.94	0.00	-439.59	0.00	439.59	1,371.88 685.94		664.43	96.18	-8.56	0.666
123.00 124.00	-6.22 -6.13	-9.84	0.00	-429.66	0.00	429.66	1,366.45 683.23	1,331.83	657.74	97.98	-8.65	0.658
124.00	-6.04	-9.75 -9.67	0.00 0.00	-419.81 -410.07	0.00 0.00	419.81 410.07	1,360.99 680.49 1,355.49 677.74		651.07 644.42	99.79 101.62	-8.74 -8.82	0.650 0.641
125.50	-6.00	-9.62	0.00	-405.23	0.00	405.23	1,352.73 676.36	1,298.12	641.09	102.54	-8.87	0.637
125.50 126.00	-6.00 -5.96	-9.62 -9.55	0.00 0.00	-405.23 -400.42	0.00 0.00	405.23 400.42	1,127.00 563.50 1,124.94 562.47		535.55 532.90	102.54 103.47	-8.87 -8.91	0.762 0.757
127.00	-5.88	-9.46	0.00	-390.87	0.00	390.87	1,120.78 560.39	1,068.31	527.60	105.34	-9.01	0.746
128.00 129.00	-5.81 -5.73	-9.37 -9.27	0.00 0.00	-381.41 -372.04	0.00 0.00	381.41 372.04	1,116.59 558.29		522.31	107.23 109.14	-9.11 -9.21	0.736 0.725
130.00	-5.65	-9.27	0.00	-372.04	0.00	362.77	1,112.36 556.18 1,108.10 554.05		517.03 511.76	109.14	-9.21 -9.31	0.725
131.00	-5.58	-9.09	0.00	-353.59	0.00	353.59	1,103.80 551.90	1,025.58	506.50	113.02	-9.40	0.703
132.00 133.00	-5.50 -5.43	-8.99 -8.90	0.00 0.00	-344.51 -335.51	0.00 0.00	344.51 335.51	1,099.47 549.73 1,095.10 547.55		501.24 496.00	115.00 116.99	-9.50 -9.59	0.693 0.682
134.00	-5.36	-8.81	0.00	-326.61	0.00	326.61	1,090.69 545.35	993.73	490.77	119.00	-9.69	0.671
135.00 136.00	-5.29 -5.21	-8.71 -8.62	0.00 0.00	-317.81 -309.09	0.00 0.00	317.81 309.09	1,086.26 543.13 1,081.78 540.89	983.15 972.60	485.54 480.33	121.03 123.08	-9.78 -9.88	0.660 0.649
137.00	-5.14	-8.53	0.00	-300.47	0.00	300.47	1,077.27 538.64	962.07	475.13	125.14	-9.97	0.637
138.00	-5.07	-8.44	0.00	-291.94	0.00	291.94	1,072.73 536.36	951.56	469.94		-10.06	0.626
139.00 140.00	-5.01 -4.94	-8.35 -8.26	0.00 0.00	-283.50 -275.15	0.00 0.00	283.50 275.15	1,068.14 534.07 1,063.53 531.76	941.07 930.61	464.76 459.59	129.34 131.46		0.615 0.604
141.00	-4.87	-8.16	0.00	-266.90	0.00	266.90	1,058.88 529.44	920.17	454.44	133.61	-10.33	0.592
142.00 143.00	-4.80 -4.74	-8.07 -7.98	0.00 0.00	-258.73 -250.66	0.00 0.00	258.73 250.66	1,054.19 527.09 1,049.47 524.73	909.76 899.37	449.30 444.17	135.77 137.95		0.581 0.569
144.00	-4.67	-7.89	0.00	-242.68	0.00	242.68	1,044.71 522.35	889.01	439.05	140.15	-10.60	0.557
145.00	-4.61	-7.80	0.00	-234.79	0.00	234.79	1,039.92 519.96	878.68	433.95	142.36		0.546
146.00 147.00	-4.55 -4.48	-7.71 -7.62	0.00 0.00	-226.99 -219.28	0.00 0.00	226.99 219.28	1,035.09 517.54 1,030.22 515.11	868.38 858.10	428.86 423.79	144.60 146.85		0.534 0.522
148.00	-4.42	-7.53	0.00	-211.66	0.00	211.66	1,025.32 512.66	847.86	418.72	149.12	-10.93	0.510
149.00 150.00	-4.36 -4.30	-7.44 -7.35	0.00 0.00	-204.13 -196.68	0.00 0.00	204.13 196.68	1,020.39 510.19 1,015.42 507.71	837.64 827.46	413.68 408.65	151.40 153.70	-11.01	0.498 0.486
151.00	-4.24	-7.26	0.00	-189.33	0.00	189.33	1,010.41 505.21	817.30	403.63	156.02	-11.17	0.473
152.00 153.00	-4.18 -4.12	-7.17	0.00	-182.07	0.00	182.07	1,005.37 502.69	807.18	398.64	158.35		0.461
153.00	-4.12 -4.06	-7.09 -7.00	0.00 0.00	-174.89 -167.81	0.00 0.00	174.89 167.81	1,000.30 500.15 995.19 497.59	797.09 787.03	393.65 388.69	160.70 163.07		0.449 0.436
155.00	-4.01	-6.91	0.00	-160.81	0.00	160.81	990.04 495.02	777.01	383.74	165.44	-11.47	0.423
156.00 157.00	-3.95 -3.89	-6.82 -6.74	0.00 0.00	-153.90 -147.08	0.00 0.00	153.90 147.08	983.06 491.53 975.56 487.78	765.62 753.91	378.11 372.33	167.84 170.25		0.411 0.399
158.00	-3.84	-6.65	0.00	-140.34	0.00	140.34	968.05 484.03	742.29	366.59	172.67		0.387

Code: ANSI/TIA-222-G Engineering Number: OAA735982_C3_01

© 2007 - 2018 by ATC IP LLC. All rights reserved. 7/2/2018 6:10:32 PM

Site Name: Clch - Colchester, CT

Customer:	AT&T MOBILITY	

Load C	ase: 1.2	2D + 1.6W	/		101	mph with N	No Ice			45 Iterations			
Dead	Load F	Factor 1. actor : 1. actor : 1.	20							Wind Im	portance	Factor	1.00
159.00 160.00	-3.79 -3.73	-6.56 -6.48	0.00 0.00	-133.69 -127.13	0.00	133.69 127.13	960.55 953.04	480.27 476.52	730.76 719.32	360.90 355.25	175.11 177.56	-11.75 -11.82	0.375
161.00 162.00	-3.68 -3.63	-6.39 -6.31	0.00 0.00	-120.65 -114.26	0.00 0.00	120.65 114.26	945.54 938.04	472.77 469.02	707.97 696.71	349.64 344.08	180.02 182.50	-11.88 -11.94	0.349 0.336
163.00	-3.58	-6.22	0.00	-107.95	0.00	107.95	930.53	465.27	685.54	338.56	184.99	-12.00	0.323
164.00 165.00	-3.53 -3.48	-6.14 -6.05	0.00 0.00	-101.73 -95.60	0.00 0.00	101.73 95.60	923.03 915.52	461.51 457.76	674.47 663.48	333.09 327.67	187.49 190.00	-12.06 -12.11	0.309 0.296
166.00 167.00	-3.43 -3.38	-5.97 -5.88	0.00 0.00	-89.55 -83.58	0.00 0.00	89.55 83.58	908.02 900.52	454.01 450.26	652.58 641.77	322.29 316.95	192.53 195.06	-12.17 -12.22	0.282 0.268
168.00	-3.33	-5.80	0.00	-77.70	0.00	77.70	893.01	446.51	631.06	311.65	197.61	-12.27	0.253
169.00 170.00	-3.28 -3.24	-5.72 -5.63	0.00 0.00	-71.90 -66.19	0.00 0.00	71.90 66.19	885.51 878.00	442.75 439.00	620.43 609.89	306.41 301.20	200.16 202.73	-12.31 -12.36	0.239 0.224
171.00 172.00	-3.19 -3.15	-5.55 -5.47	0.00 0.00	-60.55 -55.00	0.00 0.00	60.55 55.00	870.50 863.00	435.25 431.50	599.45 589.09	296.04 290.93	205.30 207.88	-12.40 -12.44	0.208 0.193
173.00	-3.10	-5.39	0.00	-49.53	0.00	49.53	855.49	427.75	578.82	285.86	210.47	-12.47	0.177
174.00 175.00	-3.06 -3.02	-5.31 -5.23	0.00 0.00	-44.15 -38.84	0.00 0.00	44.15 38.84	847.99 840.48	423.99 420.24	568.65 558.56	280.83 275.85	213.06 215.67	-12.51 -12.54	0.161 0.145
176.00 177.00	-2.97 -2.93	-5.14 -5.06	0.00 0.00	-33.61 -28.47	0.00 0.00	33.61 28.47	832.98 825.48	416.49 412.74	548.57 538.66	270.92 266.02	218.27 220.89	-12.56 -12.59	0.128 0.111
178.00 179.00	-2.89 -2.85	-4.98	0.00	-23.41	0.00	23.41	817.97	408.99	528.85	261.18	223.50	-12.61	0.093 0.076
180.00	-0.02	-4.91 -0.03	0.00 0.00	-18.42 -0.01	0.00 0.00	18.42 0.01	810.47 802.96	405.23 401.48	519.12 509.49	256.38 251.62	226.13 228.75	-12.62 -12.64	0.000
180.58	0.00	-0.02	0.00	0.00	0.00	0.00	798.59	399.29	503.91	248.86	230.28	-12.64	0.000

Site Name: Clch - Colchester, CT

Wind Load Factor :1.60

Code: ANSI/TIA-222-G Engineering Number: OAA735982_C3_01

© 2007 - 2018 by ATC IP LLC. All rights reserved. 7/2/2018 6:10:32 PM

~

Customer: AT&T MOBILITY

Load Case: 0.9D + 1.6W	101 mph with No Ice (Reduced DL)	44 Iterations
Gust Response Factor 1.10		Wind Importance Factor 1.00
Dead Load Factor : 0.90		

Applied Segment Forces Summary

		Shaft Fo	orces	Discrete Forces				Linear Forces			Sum of Forces			
Seg			Dead		Torsion	Moment	Dead		Dead		Dead	Torsion	Moment	
Elev		Wind FX	Load	Wind FX	X MY	MZ	Load	Wind FX	Load	Wind FX	Load	MY	MZ	
(ft)	Description	(lb)	(lb)	(lb)	(lb-ft)	(lb-ft)	(lb)	(lb)	(lb)	(lb)	(lb)	(lb-ft)	(lb)	
0.00		54.9	0.0					0.0	0.0	54.9	0.0	0.0	0.0	
1.00		109.6	177.7					0.0	7.9		185.6	0.0	0.0	
2.00		109.2	177.1					0.0	7.9		185.0	0.0	0.0	
3.00		108.8	176.5					0.0	7.9		184.4	0.0	0.0	
4.00		108.4	175.8					0.0	7.9		183.8	0.0	0.0	
5.00		108.1	175.2					0.0	7.9		183.1	0.0	0.0	
6.00		107.7	174.6					0.0	7.9		182.5	0.0	0.0	
7.00		107.3	174.0					0.0	7.9	107.3	181.9	0.0	0.0	
8.00		106.9	173.3					0.0	7.9	106.9	181.3	0.0	0.0	
9.00		106.5	172.7					0.0	7.9	106.5	180.6	0.0	0.0	
10.00		106.1	172.1					0.0	7.9	106.1	180.0	0.0	0.0	
11.00		105.8	171.5					0.0	7.9	105.8	179.4	0.0	0.0	
12.00		105.4	170.8					0.0	7.9		178.8	0.0	0.0	
13.00		105.0	170.2					0.0	7.9		178.1	0.0	0.0	
14.00		104.6	169.6					0.0	7.9		177.5	0.0	0.0	
15.00		104.2	169.0					0.0	7.9		176.9	0.0	0.0	
16.00		103.9	168.4					0.0	7.9		176.3	0.0	0.0	
17.00		103.5	167.7					0.0	7.9		175.7	0.0	0.0	
18.00		103.1	167.1					0.0	7.9		175.0	0.0	0.0	
19.00		102.7	166.5					0.0	7.9		174.4	0.0	0.0	
20.00		102.3	165.9					0.0	7.9		173.8	0.0	0.0	
21.00 22.00		102.0 101.6	165.2					0.0	7.9		173.2	0.0 0.0		
22.00		101.8	164.6 164.0					0.0	7.9		172.5			
23.00		101.2	164.0					0.0 0.0	7.9 7.9		171.9 171.3	0.0 0.0		
24.00		100.8	162.7					0.0	7.9		171.3	0.0		
26.00		100.4	162.1					0.0	7.9		170.0	0.0		
27.00		99.7	161.5					0.0	7.9		169.4	0.0		
28.00		99.3	160.9					0.0	7.9		168.8	0.0		
29.00		98.9	160.2					0.0	7.9		168.2	0.0		
30.00		98.8	159.6					0.0	7.9		167.5	0.0		
31.00		99.1	159.0					0.0	7.9		166.9	0.0		
32.00		9 9.7	158.4					0.0	7.9		166.3	0.0		
33.00		100.2	157.8					0.0	7.9	100.2	165.7	0.0	0.0	
34.00		100.6	157.1					0.0	7.9	100.6	165.0	0.0	0.0	
35.00		101.1	156.5					0.0	7.9	101.1	164.4	0.0	0.0	
36.00		101.5	155.9					0.0	7.9	101.5	163.8	0.0		
37.00		101.9	155.3					0.0	7.9	101.9	163.2	0.0	0.0	
38.00		102.2	154.6					0.0	7.9	102.2	162.6	0.0		
39.00		102.6	154.0					0.0	7.9		161.9	0.0		
40.00		102.9	153.4					0.0	7.9		161.3	0.0		
41.00		103.2	152.8					0.0	7.9		160.7	0.0		
42.00		103.5	152.1					0.0	7.9		160.1	0.0		
43.00		103.8	151.5					0.0	7.9		159.4	0.0		
44.00	Top Section 1	91.0	150.9					0.0	7.9		158.8	0.0		
44.75 45.00	Top - Section 1	52.1	112.8					0.0	5.9		118.7	0.0		
45.00		65.2	32.2					0.0	2.0	65.2	34.2	0.0	0.0	

Site Num	ber: 302496			Code: ANSI/TIA-222-G	© 2007	- 2018 by	ATC IP LLO	C. All right	s reserved
Site Nam	e: Clch - Cold	chester, CT		Engineering Number: OAA735982_C3_01			7/2/	2018 6:10	0:38 PM
Custome	r: AT&T MOE	BILITY							
·									
Load (<u>Case:</u> 0.9D + 1.	6W		101 mph with No Ice (Reduced DL)				44 Itera	ations
Gust R	esponse Factor	1.10				Wind I	mportanc	e Factor	1.00
	d Load Factor :								
WI	nd Load Factor :	:1.60							
46.00 47.00		104.5 104.7	128.5 128.0	0.0 0.0	7.9 7.9	104.5 104.7	136.4 135.9	0.0 0.0	0.0
48.00		104.9	120.0	0.0	7.9	104.7	135.9	0.0	0.0
49.00		105.1	126.9	0.0	7.9	105.1	134.8	0.0	0.0
50.00		105.3	126.4	0.0	7.9	105.3	134.3	0.0	0.0
51.00		105.4	125.8	0.0	7.9	105.4	133.7	0.0	0.0
52.00 53.00		105.6 105.7	125.3 124.8	0.0 0.0	7.9 7.9	105.6 105.7	133.2 132.7	0.0 0.0	0.0 0.0
54.00		105.8	124.0	0.0	7.9	105.8	132.1	0.0	0.0
55.00		105.9	123.7	0.0	7.9	105.9	131.6	0.0	0.0
56.00		106.0	123.2	0.0	7.9	106.0	131.1	0.0	0.0
57.00		106.1	122.6	0.0	7.9	106.1	130.5	0.0	0.0
58.00 59.00		106.2 106.2	122.1 121.6	0.0 0.0	7.9 7.9	106.2 106.2	130.0 129.5	0.0 0.0	0.0 0.0
60.00		106.3	121.0	0.0	7.9	106.2	129.5	0.0	0.0
61.00		106.3	120.5	0.0	7.9	106.3	128.4	0.0	0.0
62.00		106.3	119.9	0.0	7.9	106.3	127.9	0.0	0.0
63.00		106.3	119.4	0.0	7.9	106.3	127.3	0.0	0.0
64.00 65.00		106.3 106.3	118.9 118.3	0.0 0.0	7.9 7.9	106.3 106.3	126.8 126.3	0.0 0.0	0.0 0.0
66.00		106.3	117.8	0.0	7.9	106.3	125.7	0.0	0.0
67.00		106.3	117.3	0.0	7.9	106.3	125.2	0.0	0.0
68.00		106.3	116.7	0.0	7.9	106.3	124.7	0.0	0.0
69.00		106.2	116.2	0.0	7.9	106.2	124.1	0.0	0.0
70.00 71.00		106.2 106.1	115.7 115.1	0.0 0.0	7.9 7.9	106.2 106.1	123.6 123.1	0.0 0.0	0.0 0.0
72.00		106.1	114.6	0.0	7.9	106.1	123.1	0.0	0.0
73.00		106.0	114.1	0.0	7.9	106.0	122.0	0.0	0.0
74.00		105.9	113.5	0.0	7.9	105.9	121.5	0.0	0.0
75.00		105.8	113.0	0.0	7.9	105.8	120.9	0.0	0.0
76.00 77.00		105.7 105.6	112.5 111.9	0.0 0.0	7.9 7.9	105.7 105.6	120.4 119.9	0.0 0.0	0.0 0.0
78.00		105.5	111.4	0.0	7.9	105.5	119.3	0.0	0.0
79.00		105.4	110.9	0.0	7.9	105.4	118.8	0.0	0.0
80.00		105.3	110.3	0.0	7.9	105.3	118.2	0.0	0.0
81.00		105.1	109.8	0.0	7.9	105.1	117.7	0.0	0.0
82.00 83.00		105.0 104.8	109.3 108.7	0.0 0.0	7.9 7.9	105.0 104.8	117.2 116.6	0.0 0.0	0.0 0.0
84.00		104.8	108.2	0.0	7.9	104.8	116.0	0.0	0.0
85.00		91.5	107.7	0.0	7.9	91.5	115.6	0.0	0.0
85.75 T	Fop - Section 2	52.2	80.4	0.0	5.9	52.2	86.3	0.0	0.0
86.00		65.2	17.9	0.0	2.0	65.2	19.9	0.0	0.0
87.00 88.00		104.2 104.0	71.4 71.0	0.0 0.0	7.9 7.9	104.2 104.0	79.3 78.9	0.0 0.0	0.0 0.0
89.00		104.0	70.7	0.0	7.9	104.0	78.6	0.0	0.0
90.00		103.6	70.3	0.0	7.9	103.6	78.2	0.0	0.0
91.00		103.4	69.9	0.0	7.9	103.4	77.9	0.0	0.0
92.00		103.2	69.6	0.0	7.9	103.2	77.5	0.0	0.0
93.00 94.00		103.0 102.8	69.2	0.0	7.9	103.0	77.1 76.8	0.0	0.0 0.0
94.00 95.00		102.8	68.9 68.5	0.0 0.0	7.9 7.9	102.8 102.6	76.8 76.4	0.0 0.0	0.0
96.00		102.4	68.2	0.0	7.9	102.0	76.1	0.0	0.0
97.00		102.2	67.8	0.0	7.9	102.2	75.7	0.0	0.0
98.00		101.9	67.4	0.0	7.9	101.9	75.4	0.0	0.0
99.00 100.00		101.7	67.1	0.0	7.9	101.7	75.0	0.0	0.0
100.00 101.00		101.4	66.7 66.4	0.0	7.9	101.4	74.7	0.0	0.0
101.00		101.2	66.4	0.0	7.9	101.2	74.3	0.0	0.0

-

Site Number: 3	02496		Code: ANSI/TIA-222-G	© 2007	- 2018 by /	ATC IP LLC	C. All rights	reserv
lite Name: C	lch - Colchester, CT		Engineering Number: OAA735982_C3_01			7/2/	2018 6:10):38 PI
ustomer: A	T&T MOBILITY							
Load Case:			101 mph with No Ice (Reduced DL)				44 Itera	tions
Gust Respons	se Factor 1.10 1 Factor : 0.90				Wind Ir	nportanc	e Factor	1.00
	d Factor :1.60							
102.00		66.0	0.0	7.9	100.9	73.9	0.0	0.0
102.00		65.7	0.0	7.9	100.9	73.6	0.0	0.0
04.00	100.4	65.3	0.0	7.9	100.4	73.2	0.0	0.0
105.00		65.0	0.0	7.9	100.1	72.9	0.0	0.0
106.00		64.6	0.0	7.9 7.9	99.9 00.6	72.5 72.2	0.0 0.0	0.0 0.0
07.00 08.00		64.2 63.9	0.0 0.0	7.9 7.9	99.6 99.3	72.2	0.0	0.0
109.00		63.5	0.0	7.9	99.0	71.4	0.0	0.0
110.00		63.2	0.0	7.9	98.7	71.1	0.0	0.0
11.00		62.8	0.0	7.9	98.4	70.7	0.0	0.0
12.00		62.5	0.0	7.9	98.1	70.4	0.0	0.0
13.00 14.00		62.1 61.7	0.0 0.0	7.9 7.9	97.8 97.5	70.0 69.7	0.0 0.0	0.0 0.0
115.00		61.4	0.0	7.9	97.5 97.2	69.7 69.3	0.0	0.0
116.00		61.0	0.0	7.9	96.8	69.0	0.0	0.0
117.00	96.5	60.7	0.0	7.9	96.5	68.6	0.0	0.0
18.00		60.3	0.0	7.9	96.2	68.2	0.0	0.0
19.00		60.0	0.0	7.9	95.9 05 5	67.9 67.5	0.0	0.0 0.0
20.00 21.00		59.6 59.3	0.0 0.0	7.9 7.9	95.5 95.2	67.5 67.2	0.0 0.0	0.0
22.00		58.9	0.0	7.9	94.8	66.8	0.0	0.0
23.00		58.5	0.0	7.9	94.5	66.5	0.0	0.0
24.00	94.1	58.2	0.0	7.9	94.1	66.1	0.0	0.0
25.00		57.8	0.0	7.9	70.4	65.7	0.0	0.0
25.50 Top - Se 26.00		28.8 25.1	0.0 0.0	4.0 4.0	46.8 70.0	32.7 29.1	0.0 0.0	0.0 0.0
127.00		20.1 50.0	0.0	4.0 7.9	93.0	29.1 58.0	0.0	0.0
28.00		49.7	0.0	7.9	92.7	57.6	0.0	0.0
129.00	92.3	49.4	0.0	7.9	92.3	57.3	0.0	0.0
130.00		49.1	0.0	7.9	91.9	57.0	0.0	0.0
131.00 132.00		48.8 48.5	0.0 0.0	7.9 7.9	91.5 91.2	56.7 56.4	0.0 0.0	0.0 0.0
133.00		48.2	0.0	7.9	90.8	56.1	0.0	0.0
134.00		47.9	0.0	7.9	90.4	55.8	0.0	0.0
135.00	90.0	47.5	0.0	7.9	90.0	55.5	0.0	0.0
136.00		47.2	0.0	7.9	89.6	55.2	0.0	0.0
137.00 138.00		46.9	0.0 0.0	7.9 7.9	89.2	54.8 54.5	0.0 0.0	0.0 0.0
138.00 139.00		46.6 46.3	0.0	7.9 7.9	88.8 88.4	54.5 54.2	0.0	0.0
40.00		46.0	0.0	7.9	88.0	53.9	0.0	0.0
41.00	87.6	45.7	0.0	7.9	87.6	53.6	0.0	0.0
42.00		45.4	0.0	7.9	87.1	53.3	0.0	0.0
43.00		45.1	0.0	7.9	86.7	53.0	0.0	0.0
44.00 45.00		44.7 44.4	0.0 0.0	7.9 7.9	86.3 85.9	52.7 52.3	0.0 0.0	0.0 0.0
46.00	85.4	44.4 44.1	0.0	7.9	85.4	52.5 52.0	0.0	0.0
47.00		43.8	0.0	7.9	85.0	51.7	0.0	0.0
48.00	84.6	43.5	0.0	7.9	84.6	51.4	0.0	0.0
49.00		43.2	0.0	7.9	84.1	51.1	0.0	0.0
150.00		42.9	0.0 0.0	7.9	83.7	50.8 50.5	0.0 0.0	0.0 0.0
151.00 152.00		42.6 42.2	0.0	7.9 7.9	83.2 82.8	50.5 50.2	0.0	0.0
153.00		42.2 41.9	0.0	7.9 7.9	82.8	50.2 49.9	0.0	0.0
154.00		41.6	0.0	7.9	81.9	49.5	0.0	0.0
155.00	81.4	41.3	0.0	7.9	81.4	49.2	0.0	0.
156.00		41.0	0.0	7.9	81.0	48.9	0.0	0.
57.00	80.5	40.7	0.0	7.9	80.5	48.6	0.0	0.0

-

Code: ANSI/TIA-222-G Engineering Number: OAA735982_C3_01 © 2007 - 2018 by ATC IP LLC. All rights reserved. 7/2/2018 6:10:38 PM

Site Name: Clch - Colchester, CT Customer: AT&T MOBILITY

Load Case: 0.9D + 1.6W	V		101	mph with No lo	ce (Reduc	ed DL)				44 Itera	ations
Gust Response Factor 1. Dead Load Factor :0. Wind Load Factor :1.	90							Wind	Importanc	ce Factor	1.00
158.00	80.0	40.4				0.0	7.9	80.0	48.3	0.0	0.0
159.00	79.6	40.1				0.0	7.9	79.6	48.0	0.0	0.0
160.00	79.1	39.8				0.0	7.9	79.1	47.7	0.0	0.0
161.00	78.6	39.4				0.0	7.9	78.6	47.4	0.0	0.0
162.00	78.1	39.1				0.0	7.9	78.1	47.0	0.0	0.0
163.00	77.7	38.8				0.0	7.9	77.7	46.7	0.0	0.0
164.00	77.2	38.5				0.0	7.9	77.2	46.4	0.0	0.0
165.00	76.7	38.2				0.0	7.9	76.7	46.1	0.0	0.0
166.00	76.2	37.9				0.0	7.9	76.2	45.8	0.0	0.0
167.00	75.7	37.6				0.0	7.9	75.7	45.5	0.0	0.0
168.00	75.2	37.3				0.0	7.9	75.2	45.2	0.0	0.0
169.00	74.7	36.9				0.0	7.9	74.7	44.9	0.0	0.0
170.00	74.2	36.6				0.0	7.9	74.2	44.6	0.0	0.0
171.00	73.7	36.3				0.0	7.9	73.7	44.2	0.0	0.0
172.00	73.2	36.0				0.0	7.9	73.2	43.9	0.0	0.0
173.00	72.7	35.7				0.0	7.9	72.7	43.6	0.0	0.0
174.00	72.2	35.4				0.0	7.9	72.2	43.3	0.0	0.0
175.00	71.7	35.1				0.0	7.9	71.7	43.0	0.0	0.0
176.00	71.2	34.8				0.0	7.9	71.2	42.7	0.0	0.0
177.00	70.6	34.5				0.0	7.9	70.6	42.4	0.0	0.0
178.00	70.1	34.1				0.0	7.9	70.1	42.1	0.0	0.0
179.00	69.6	33.8				0.0	7.9	69.6	41.7	0.0	0.0
180.00 Appurtenance(s)	54.8	33.5	4,088.4	0.0 13,500.8	2,829.9	0.0	7.9	4,143.2	2,871.3	0.0	0.0
180.58	20.1	19.4				0.0	0.0	20.1	19.4	0.0	0.0
						Tota	als:	21,523.882	21,299.72	0.00	0.00

Site Name: Clch - Colchester, CT

Code: ANSI/TIA-222-G Engineering Number: OAA735982_C3_01

101 mph with No Ice (Reduced DL)

© 2007 - 2018 by ATC IP LLC. All rights reserved. 7/2/2018 6:10:38 PM

Wind Importance Factor 1.00

44 Iterations

-

Customer: AT&T MOBILITY

Load Case: 0.9D + 1.6W

Gust Response Factor 1.10

Dead Load Factor : 0.90 Wind Load Factor : 1.60

Calculated Forces

 Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect I (in)	Rotation (deg)	Ratio
0.00	-21.29	-21.48	0.00	-2,342.84	0.00	2,342.84	4,173.88	2,086.94	7,090.68	3,501.82	0.00	0.00	0.674
1.00	-21.08	-21.39	0.00	-2,321.36	0.00	2,321.36	4,164.30	2,082.15	7,049.35	3,481.41	0.01	-0.05	0.672
2.00	-20.88	-21.30	0.00	-2,299.97	0.00	2,299.97		2,077.34			0.02	-0.11	0.670
3.00	-20.68	-21.21	0.00	-2,278.68	0.00	2,278.68		2,072.51			0.05	-0.16	0.667
4.00	-20.47	-21.12	0.00	-2,257.47	0.00	2,257.47		2,067.66			0.09	-0.21	0.665
5.00 6.00	-20.27 -20.07	-21.03 -20.94	0.00 0.00	-2,236.35 -2,215.33	0.00	2,236.35 2,215.33	•	2,062.80			0.14 0.20	-0.26 -0.32	0.663 0.660
7.00	-19.87	-20.94	0.00	-2,215.33	0.00 0.00	2,215.35		2,057.92 2,053.02			0.20	-0.32	0.658
8.00	-19.67	-20.76	0.00	-2,173.54	0.00	2,173.54		2,048.10				-0.42	0.656
9.00	-19.47	-20.67	0.00	-2,152.79	0.00	2,152.79		2,043.16			0.45	-0.48	0.653
10.00	-19.27	-20.58	0.00	-2,132.12	0.00	2,132.12	4,076.42	2,038.21	6,680.00	3,299.00	0.56	-0.53	0.651
11.00	-19.08	-20.49	0.00	-2,111.54	0.00	2,111.54		2,033.24				-0.58	0.649
12.00	-18.88	-20.40	0.00	-2,091.05	0.00	2,091.05		2,028.25				-0.63	0.646
13.00 14.00	-18.68 -18.49	-20.31 -20.22	0.00 0.00	-2,070.66 -2,050.35	0.00 0.00	2,070.66 2,050.35		2,023.25				-0.69 -0.74	0.644 0.642
14.00	-18.29	-20.22	0.00	-2,030.33	0.00	2,030.35	•	2,018.22 2,013.18	•	•	1.25	-0.74	0.639
16.00	-18.10	-20.13	0.00	-2,010.00	0.00	2,010.00		2,008.12				-0.85	0.637
17.00	-17.91	-19.95	0.00	-1,989.96	0.00	1,989.96		2,003.05			1.61	-0.90	0.635
18.00	-17.72	-19.86	0.00	-1,970.01	0.00	1,970.01		1,997.95			1.80	-0.96	0.632
19.00	-17.52	-19.77	0.00	-1,950.15	0.00	1,950.15		1,992.84				-1.01	0.630
20.00	-17.33	-19.68	0.00	-1,930.38	0.00	1,930.38		1,987.71			2.22	-1.06	0.627
21.00	-17.14	-19.59	0.00	-1,910.70	0.00	1,910.70		1,982.56			2.45	-1.12 -1.17	0.625 0.623
22.00 23.00	-16.96 -16.77	-19.50 -19.42	0.00 0.00	-1,891.11 -1,871.60	0.00 0.00	1,891.11 1,871.60	•	1,977.24 1,969.74	-			-1.17	0.623
24.00	-16.58	-19.42	0.00	-1.852.19	0.00	1,871.00	•	1,969.74	•			-1.22	0.619
25.00	-16.39	-19.24	0.00	-1,832.86	0.00	1,832.86		1,954.73				-1.33	0.617
26.00	-16.21	-19.15		-1,813.63	0.00	1,813.63		1,947.22				-1.39	0.616
27.00	-16.02	-19.06		-1,794.48	0.00	1,794.48		1,939.72				-1.44	0.614
28.00	-15.84	-18.97	0.00	-1,775.42	0.00	1,775.42		1,932.22				-1.49	0.612
29.00	-15.66	-18.88		-1,756.45	0.00	1,756.45		1,924.71				-1.55	0.610
30.00 31.00	-15.47 -15.29	-18.79 -18.70	0.00	-1,737.56	0.00 0.00	1,737.56 1,718.77		1,917.21 1,909.70	•	•		-1.60 -1.66	0.608 0.607
32.00	-15.29	-18.61	0.00	-1,700.06		1,700.06		1,909.70				-1.71	0.605
33.00	-14.93	-18.52		-1,681.45	0.00	1,681.45		1,894.70				-1.77	0.603
34.00	-14.75	-18.43		-1,662.93	0.00	1,662.93		1,887.19	•			-1.82	0.601
35.00	-14.57	-18.34	0.00	-1,644.50	0.00	1,644.50		1,879.69				-1.88	0.599
36.00	-14.39	-18.25		-1,626.16		1,626.16		1,872.18				-1.93	0.597
37.00	-14.22	-18.15		-1,607.91	0.00	1,607.91		1,864.68				-1.98	0.595
38.00	-14.04	-18.06 -17.96		-1,589.76		1,589.76		1,857.18				-2.04 -2.09	0.593 0.591
39.00 40.00	-13.87 -13.69	-17.90	0.00	-1,571.70 -1,553.74	0.00 0.00	1,571.70 1,553.74	•	1,849.67	•			-2.05	0.589
41.00	-13.52	-17.77	0.00	-1,535.87	0.00	1,535.87		1,834.66				-2.20	0.587
42.00	-13.35	-17.67		-1,518.10		1,518.10		1,827.16				-2.26	0.585
43.00	-13.17	-17.58		-1,500.42		1,500.42	•	1,819.66	•	•		-2.31	0.583
44.00	-13.00	-17.49		-1,482.85		1,482.85		1,812.15				-2.37	0.581
44.75	-12.88	-17.44		-1,469.73		1,469.73		1,806.52				-2.41	0.580
44.75	-12.88	-17.44		-1,469.73		1,469.73		1,518.66				-2.41 -2.42	0.687 0.686
45.00 46.00	-12.84 -12.69	-17.38 -17.29		-1,465.37 -1,447.99		1,465.37 1,447.99		1,517.62 1,513.44					0.688
47.00	-12.53	-17.19		-1,430.71	0.00	1,430.71		1,509.25					0.680
48.00	-12.39	-17.09		-1,413.52		1,413.52		1,505.04					0.676

Code: ANSI/TIA-222-G Engineering Number: OAA735982_C3_01

© 2007 - 2018 by ATC IP LLC. All rights reserved. 7/2/2018 6:10:38 PM

Site Name: Clch - Colchester, CT Customer: AT&T MOBILITY

Engineering Number: C

101 mph with No Ice (Reduced DL)	44 Iterations
•	nportance Factor 1.00
0.001,396.433,001.621,500.814,230.282,089.170.001,379.432,993.121,496.564,200.312,074.370.001,362.542,984.591,492.304,170.392,059.600.001,345.742,976.021,488.014,140.522,044.850.001,329.042,967.421,483.714,110.712,030.130.001,329.042,967.421,483.714,110.712,030.130.001,295.942,950.111,475.064,051.262,000.760.001,279.542,941.411,470.704,021.621,986.120.001,263.242,932.661,466.333,992.031,971.510.001,230.952,915.071,457.543,933.031,942.370.001,214.952,906.281,453.143,903.691,927.890.001,199.062,893.421,446.713,869.021,910.760.001,167.582,867.691,433.853,800.131,876.740.001,167.582,867.691,433.853,697.961,826.280.001,105.852,816.241,402.923,731.861,843.020.001,105.852,816.241,408.923,630.611,793.020.001,075.602,790.511,352.553,597.181,776.510.001,001.632,777.641,388.823,63.0611,793.020.001,016.362,739.051,369.533,464.971,711.22	13.48-2.680.673 14.04 -2.740.669 14.63 -2.800.666 15.22 -2.870.662 15.83 -2.930.659 16.45 -3.000.655 17.08 -3.060.652 17.73 -3.120.648 18.39 -3.190.645 19.07 -3.250.641 19.75 -3.320.638 20.45 -3.380.634 21.17 -3.440.631 21.90 -3.510.629 22.64 -3.570.626 23.39 -3.640.623 24.16 -3.700.620 24.94 -3.760.617 25.74 -3.830.615 26.55 -3.890.612 27.37 -3.960.609 28.20 -4.020.606 29.05 -4.080.603 29.91 -4.150.600 30.79 -4.210.597 31.68 -4.280.594 32.58 -4.340.591 33.49 -4.400.588 34.42 -4.470.588 34.42 -4.470.582 35.36 -4.530.582 36.32 -4.600.579 37.29 -4.660.576 38.27 -4.720.573 39.26 -4.790.570 40.27 -4.850.560 42.33 -4.980.560 43.11 -5.020.922 43.37 <td< td=""></td<>
0.00 809.17 1,535.36 767.68 1,819.59 898.63 0.00 796.19 1,531.13 765.57 1,805.38 891.61 0.00 783.30 1,526.87 763.44 1,791.17 884.59 0.00 770.52 1,522.58 761.29 1,776.98 877.58 0.00 757.83 1,518.25 759.12 1,762.79 870.58 0.00 745.25 1,513.88 756.94 1,748.62 863.58	45.52 -5.23 0.905 46.63 -5.32 0.898 47.75 -5.42 0.890 48.89 -5.51 0.883 50.06 -5.60 0.875 51.24 -5.70 0.868
0.00 732.76 1,509.48 754.74 1,734.46 856.59 0.00 720.37 1,505.04 752.52 1,720.31 849.60 0.00 708.08 1,500.57 750.29 1,706.18 842.62 0.00 695.90 1,496.06 748.03 1,692.06 835.64 0.00 683.81 1,491.52 745.76 1,677.95 828.68 0.00 671.82 1,486.94 743.47 1,663.86 821.72 0.00 659.92 1,482.33 741.16 1,649.78 814.77 0.00 648.13 1,477.68 738.84 1,635.72 807.82 0.00 636.44 1,473.00 736.50 16.21.68 800.89	53.66 -5.88 0.852 54.90 -5.97 0.845 56.16 -6.07 0.837 57.44 -6.16 0.830 58.73 -6.25 0.822 60.05 -6.34 0.814 61.39 -6.44 0.807
	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$

Site Name: Clch - Colchester, CT

Code: ANSI/TIA-222-G Engineering Number: OAA735982_C3_01 © 2007 - 2018 by ATC IP LLC. All rights reserved. 7/2/2018 6:10:39 PM

Gust Response Factor 110 Wind Importance Factor 1.00 104.00 5.75 -114.00 0.00 -613.35 1.463.52 731.76 1.593.65 787.04 65.51 -6.71 0.78 105.00 5.55 -11.30 0.00 561.96 1.453.91 726.85 1.565.96 787.04 65.51 -6.71 0.78 65.51 6.71 0.78 65.51 6.71 0.78 65.51 6.71 0.78 65.51 6.71 0.78 65.51 6.71 0.78 65.51 6.71 0.78 65.51 6.71 0.78 67.79 7.17 0.748 0.780 7.79 7.78 0.738 7.79 7.78 0.738 0.725 7.71 0.748 0.717 1.738 0.725 7.79 7.79 0.748 0.71 0.743 0.725 7.79 7.79 7.78 0.726 7.78 0.728 7.78 7.78 0.728 0.789 0.728 0.789 0.728 0.789 0.737 7.79 0	Load C	ase: 0.	9D + 1.6V	v		101	mph with l	No Ice (Reduced	DL)				44 Itera	tions
	Dead	i Load I	actor : 0.	90							Wind Im	portance	Factor :	1.00
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		·····			040.05	0.00	040.07					05.54	0.74	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	105.00	-5.67	-11.30	0.00	-601.96	0.00	601.96	1,458.73 7	729.37 1	,579.66	780.14	66.92	-6.80	0.776
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$								1,453.91 7 1,449.04 7				68.35 69.80		
$ \begin{array}{c} 1110.00 & 5.29 & 10.80 & 0.00 & -564.66 & 0.00 & 546.46 & 1.434.25 & 717.12 & 174.62 & 1.496.17 & 72.64 & 0.73 \\ 112.00 & 5.14 & 10.61 & 0.00 & -524.96 & 0.00 & 524.96 & 1.429.42 & 171.20 & 1.442.33 & 732.07 & 77.34 & 7.43 & 0.721 \\ 113.00 & -507 & -10.51 & 0.00 & -514.35 & 0.00 & 514.35 & 1.419.13 & 709.57 & 1.486.51 & 725.24 & 78.00 & -75.2 & 0.713 \\ 114.00 & 4.99 & -10.41 & 0.00 & -503.84 & 0.00 & 503.84 & 1.414.02 & 707.01 & 54.47.37 & 718.43 & 80.48 & -7.61 & 0.705 \\ 115.00 & 4.92 & -10.21 & 0.00 & -483.43 & 0.00 & 423.43 & 1.408.83 & 707.165 & 1.472.22 & 708.86 & 7.70 & 0.687 \\ 116.00 & 4.45 & -10.21 & 0.00 & -422.91 & 0.00 & 422.91 & 1.386.46 & 692.42 & 1.413.51 & 698.08 & 63.37 & -7.79 & 0.689 \\ 117.00 & 4.78 & -10.22 & 0.00 & -462.77 & 0.00 & 422.79 & 1.383.23 & 696.92 & 1.471.35 & 698.08 & 63.3 & -7.88 & 0.681 \\ 118.00 & 4.71 & -10.02 & 0.00 & -422.77 & 0.00 & 422.79 & 1.383.23 & 696.26 & 1.318.254 & 671.85 & 90.35 & -1.48 & 0.661 \\ 120.00 & -4.57 & -3.82 & 0.00 & -423.30 & 0.00 & 423.03 & 1.377.27 & 688.64 & 1.358.44 & 671.13 & 92.06 & -2.41 & 0.641 \\ 124.00 & -4.31 & -3.63 & 0.00 & -423.30 & 0.00 & 423.03 & 1.377.188 & 665.44 & 1.358.44 & 664.70 & 93.75 & -3.84 & 0.667 \\ 124.00 & -4.31 & -3.65 & 0.00 & -423.30 & 0.00 & 443.30 & 1.377.188 & 665.44 & 1.358.44 & 664.70 & 93.75 & -3.84 & 0.661 \\ 125.00 & -4.21 & -9.22 & 0.00 & -390.01 & 0.00 & 390.01 & 1.327.45 & 677.47 & 1.348.57 & 664.47 & 93.79 & -8.64 & 0.624 \\ 125.00 & -4.21 & -9.32 & 0.00 & -390.01 & 0.00 & 390.01 & 1.327.45 & 677.84 & 1.348.5 & 644.42 & 99.07 & -8.57 & 0.771 \\ 127.00 & -4.18 & -9.52 & 0.00 & -330.61 & 0.00 & 390.61 & 1.326.54 & 677.47 & 1.348.5 & 644.42 & 99.07 & -8.57 & 0.771 \\ 126.00 & -4.21 & -9.32 & 0.00 & -390.01 & 0.00 & 390.01 & 1.327.25 & 567.83 & 0.104.44 & 552.80 & 10.08 & -8.48 & 0.664 \\ 133.00 & -3.79 & -6.69 & 0.00 & -365.60 & 0.00 & 365.60 & 1.126.49 & 522.80 & 10.08 & -8.48 & 0.766 \\ 131.00 & -3.59 & -8.70 & 0.00 & -357.90 & 1.112.36 & 563.81 & 1.046.49 & 517.03 & 16.88 & -8.76 & 0.777 \\ 126.00 & -4.18 & -9$			-11.00	0.00	-568.37	0.00	568.37	1,444.15 7	722.07 1	,537.82	759.47	71.27	-7.08	0.752
$\begin{array}{cccccccccccccccccccccccccccccccccccc$														
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	111.00	-5.21	-10.70	0.00	-535.66	0.00	535.66	1,429.24 7	714.62 1	,496.17	738.90	75.7 9	-7.35	0.729
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$														
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	114.00	-4.99	-10.41	0.00	-503.84	0.00	503.84	1,414.02 7	707.01 1	,454.73	718.43	80.48	-7.61	0.705
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$								1,408.88 1				82.08 83.70	-7.79	0.689
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$								1,398.48 6						
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$													-8.05	0.665
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$														
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	122.00	-4.44	-9.63	0.00	-423.30	0.00	423.30	1,371.88	685.94 1	,345.37	664.43	93.79	-8.31	0.641
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$									583.23 1 580.49 1	,331.83				
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	125.00	-4.24	-9.36	0.00	-394.69	0.00	394.69	1,355.49 6	677.74 1	,304.85	644.42	99.07	-8.57	0.616
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$														
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	126.00	-4.18	-9.25	0.00	-385.36	0.00	385.36	1,124.94	562.47 1	,079.04	532.90	100.87	-8.65	0.727
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$														
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	129.00	-4.01	-8.97	0.00	-357.90	0.00	357.90	1,112.36 5	556.18 1	,046.91	517.03	106.38	-8.94	0.696
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$														
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	132.00	-3.84	-8.69	0.00	-331.28	0.00	331.28	1,099.47 5	549.73 1	,014.94	501.24	112.06	-9.22	0.665
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$														
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$					-305.50	0.00	305.50	1,086.26 5	543.13	983.15	485.54	117.91		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$														0.611
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$								•						
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		-3.42	-7.95				264.36		531.76	930.61	459.59	128.04	-9.93	0.579
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$												130.12	-10.02	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	143.00	-3.28	-7.68	0.00	-240.77							134.33	-10.19	0.545
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$					-233.09		233.09 225 50	1,044.71 5						0.534
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	146.00	-3.14	-7.42	0.00	-217.99	0.00	217.99	1,035.09 5	517.54	868.38	428.86	140.78	-10.44	0.512
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$														
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	149.00	-3.00	-7.15	0.00	-196.01	0.00	196.01	1,020.39 5	510.19	837.64	413.68	147.37	-10.67	0.477
152.00 -2.87 -6.89 0.00 -174.83 0.00 174.83 1,005.37 502.69 807.18 398.64 154.11 -10.90 0.442 153.00 -2.83 -6.80 0.00 -167.94 0.00 167.94 1,000.30 500.15 797.09 393.65 156.39 -10.97 0.430 154.00 -2.79 -6.71 0.00 -161.14 0.00 161.14 995.19 497.59 787.03 388.69 158.68 -11.04 0.418 155.00 -2.75 -6.63 0.00 -154.42 0.00 154.42 990.04 495.02 777.01 383.74 160.99 -11.11 0.405 156.00 -2.71 -6.54 0.00 -147.79 0.00 147.79 983.06 491.53 765.62 378.11 163.31 -11.18 0.394 157.00 -2.67 -6.46 0.00 -141.25 0.00 141.25 975.56 487.78 753.91 372.33 165.64 -11.25 0.382														
154.00-2.79-6.710.00-161.140.00161.14995.19497.59787.03388.69158.68-11.040.418155.00-2.75-6.630.00-154.420.00154.42990.04495.02777.01383.74160.99-11.110.405156.00-2.71-6.540.00-147.790.00147.79983.06491.53765.62378.11163.31-11.180.394157.00-2.67-6.460.00-141.250.00141.25975.56487.78753.91372.33165.64-11.250.382	152.00	-2.87	-6.89	0.00	-174.83	0.00	174.83	1,005.37 5	502.69	807.18	398.64	154.11	-10.90	0.442
155.00-2.75-6.630.00-154.420.00154.42990.04495.02777.01383.74160.99-11.110.405156.00-2.71-6.540.00-147.790.00147.79983.06491.53765.62378.11163.31-11.180.394157.00-2.67-6.460.00-141.250.00141.25975.56487.78753.91372.33165.64-11.250.382														
157.00 -2.67 -6.46 0.00 -141.25 0.00 141.25 975.56 487.78 753.91 372.33 165.64 -11.25 0.382	155.00	-2.75	-6.63	0.00	-154.42	0.00	154.42	990.04 4	495.02	777.01	383.74	160.99	-11.11	0.405

Code: ANSI/TIA-222-G Engineering Number: OAA735982_C3_01 © 2007 - 2018 by ATC IP LLC. All rights reserved. 7/2/2018 6:10:39 PM

Site Name: Clch - Colchester, CT Customer: AT&T MOBILITY

—													
Load C	<u>ase:</u> 0.9	9D + 1.6V	V		101	mph with N	o Ice (Reduce	d DL)				44 Itera	tions
Gust Re	sponse	Factor 1.	10							Wind Im	portance	Factor	1.00
		actor : 0.									portano		
		actor :1.											
vv111			00										
159.00	-2.59	-6.29	0.00	-128.42	0.00	128.42	960.55	480.27	730.76	360.90	170.35	-11.38	0.359
160.00	-2.55	-6.20	0.00	-122.13	0.00	122.13	953.04	476.52	719.32	355.25	172.73	-11.44	0.347
161.00	-2.52	-6.12	0.00	-115.93	0.00	115.93	945.54	472.77	707.97	349.64	175.11	-11.50	0.334
162.00	-2.48	-6.04	0.00	-109.81	0.00	109.81	938.04	469.02	696.71	344.08	177.51	-11.56	0.322
163.00	-2.44	-5.95	0.00	-103.77	0.00	103.77	930.53	465.27	685.54	338.56	179.93	-11.62	0.309
164.00	-2.41	-5.87	0.00	-97.82	0.00	97.82	923.03	461.51	674.47	333.09	182.35	-11.68	0.296
165.00	-2.37	-5.79	0.00	-91.94	0.00	91.94	915.52	457.76	663.48	327.67	184.78	-11.73	0.283
166.00	-2.34	-5.71	0.00	-86.16	0.00	86.16	908.02	454.01	652.58	322.29	187.23	-11.78	0.270
167.00	-2.31	-5.63	0.00	-80.45	0.00	80.45	900.52	450.26	641.77	316.95	189.68	-11.83	0.257
168.00	-2.27	-5.54	0.00	-74.82	0.00	74.82	893.01	446.51	631.06	311.65	192.15	-11.88	0.243
169.00	-2.24	-5.46	0.00	-69.28	0.00	69.28	885.51	442.75	620.43	306.41	194.62	-11.92	0.229
170.00	-2.21	-5.38	0.00	-63.81	0.00	63.81	878.00	439.00	609.89	301.20	197.11	-11.96	0.215
171.00	-2.18	-5.30	0.00	-58.43	0.00	58.43	870.50	435.25	599.45	296.04	199.60	-12.00	0.200
172.00	-2.15	-5.22	0.00	-53.13	0.00	53.13	863.00	431.50	589.09	290.93	202.10	-12.04	0.185
173.00	-2.11	-5.15	0.00	-47.90	0.00	47.90	855.49	427.75	578.82	285.86	204.61	-12.08	0.170
174.00	-2.08	-5.07	0.00	-42.76	0.00	42.76	847.99	423.99	568.65	280.83	207.12	-12.11	0.155
175.00	-2.06	-4.99	0.00	-37.69	0.00	37.69	840.48	420.24	558.56	275.85	209.64	-12.14	0.139
176.00	-2.03	-4.91	0.00	-32.70	0.00	32.70	832.98	416.49	548.57	270.92	212.17	-12.16	0.123
177.00	-2.00	-4.83	0.00	-27.79	0.00	27.79	825.48	412.74	538.66	266.02	214.70	-12.19	0.107
178.00	-1.97	-4.76	0.00	-22.95	0.00	22.95	817.97	408.99	528.85	261.18	217.24	-12.21	0.090
179.00	-1.94	-4.68	0.00	-18.20	0.00	18.20	810.47	405.23	519.12	256.38	219.78	-12.22	0.074
180.00	-0.01	-0.02	0.00	-0.01	0.00	0.01	802.96	401.48	509.49	251.62	222.32		0.000
180.58	0.00	-0.02	0.00	0.00	0.00	0.00	798.59	399.29	503.91	248.86	223.80	-12.24	0.000

Site Name: Clch - Colchester, CT Customer: AT&T MOBILITY

Code: ANSI/TIA-222-G Engineering Number: OAA735982_C3_01

© 2007 - 2018 by ATC IP LLC. All rights reserved. 7/2/2018 6:10:39 PM

Load Case: 1.2D + 1.0Di + 1.0Wi

50 mph with 0.75 in Radial Ice

43 Iterations

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

Ice Dead Load Factor :1.00

Wind Importance Factor 1.00 Ice Importance Factor 1.00

Applied Segment Forces Summary

		Shaft F	orces		Discret	te Forces		Linear Fo	orces		Sum of	Forces	
Seg			Dead		Torsion	Moment	Dead		Dead		Dead	Torsion	Moment
Elev		Wind FX	Load	Wind F		MZ	Load	Wind FX		Wind FX	Load	MY	MZ
(ft)	Description	(lb)	(lb)	(lb)	(lb-ft)	(lb-ft)	(lb)	(lb)	(lb)	(lb)	(lb)	(lb-ft)	(lb)
				(15)	(10-11)	(10-11)	(iii)		(u)	(0)		(10-11)	
0.00		10.5	0.0					0.0	0.0	10.5	0.0	0.0	
1.00		21.1	291.3					0.0	10.6		301.9	0.0	0.0
2.00		21.1	296.7					0.0	10.6		307.3	0.0	0.0
3.00		21.1	299.0					0.0	10.6		309.5	0.0	
4.00		21.1	300.1					0.0	10.6		310.7	0.0	0.0
5.00		21.0	300.8					0.0	10.6		311.4	0.0	
6.00		21.0	301.1					0.0	10.6		311.7	0.0	0.0
7.00		20.9	301.2					0.0	10.6		311.8	0.0	0.0
8.00		20.9	301.2					0.0	10.6		311.8	0.0	
9.00		20.8	301.0					0.0	10.6		311.6	0.0	
10.00		20.8	300.8					0.0	10.6		311.3	0.0	
11.00		20.7	300.4					0.0	10.6		311.0	0.0	
12.00		20.6	300.0					0.0	10.6		310.6	0.0	
13.00		20.6	299.6					0.0	10.6		310.1	0.0	
14.00		20.5	299.0					0.0	10.6		309.6	0.0	
15.00		20.5	298.5					0.0	10.6		309.1	0.0	
16.00		20.4	297.9					0.0	10.6		308.5	0.0	
17.00		20.3	297.3					0.0	10.6		307.9	0.0	
18.00		20.3	296.6					0.0	10.6		307.2	0.0	
19.00		20.2	296.0					0.0	10.6		306.5	0.0	
20.00		20.1	295.3					0.0	10.6		305.8	0.0	
21.00		20.1	294.6					0.0	10.6		305.1	0.0	
22.00		20.0	293.8					0.0	10.6		304.4	0.0	
23.00		20.0	293.1					0.0	10.6		303.6	0.0	
24.00 25.00		19.9	292.3					0.0	10.6		302.9	0.0	
25.00		19.8	291.5					0.0	10.6		302.1	0.0	
28.00		19.8 19.7	290.7 289.9					0.0	10.6		301.3	0.0	
28.00		19.6						0.0	10.6		300.5	0.0	
28.00			289.1					0.0	10.6		299.7	0.0	
30.00		19.6 19.6	288.3 287.4					0.0 0.0	10.6 10.6		298.8 298.0	0.0 0.0	
31.00		19.6	286.6					0.0	10.6		298.0	0.0	
32.00		19.0	285.7					0.0	10.6		297.1	0.0	
33.00		19.9	284.9					0.0	10.6		290.3	0.0	
34.00		20.0	284.0					0.0	10.6		295.4	0.0	
35.00		20.0	284.0										
36.00		20.1	282.2					0.0 0.0	10.6 10.6		293.6 292.8	0.0 0.0	
37.00		20.1	281.3					0.0	10.6		292.8	0.0	
38.00		20.2	281.3					0.0	10.6		291.9	0.0	
39.00		20.3	279.5					0.0	10.6		290.9	0.0	
40.00		20.4	279.5					0.0	10.6		290.0	0.0	
41.00		20.5	278.6					0.0	10.6		288.2	0.0	
42.00		20.5	276.7					0.0	10.6		287.3	0.0	
43.00		20.0	275.8					0.0	10.6		286.3	0.0	
44.00		18.1	275.8					0.0	10.6		285.4	0.0	
44.75	Top - Section 1	10.1	205.5					0.0	7.9		213.4	0.0	
45.00		13.0	61.3					0.0	2.6		64.0	0.0	
								0.0			00		

Site Name: Clch - Colchester, CT

Customer: AT&T MOBILITY

Code: ANSI/TIA-222-G Engineering Number: OAA735982_C3_01 © 2007 - 2018 by ATC IP LLC. All rights reserved. 7/2/2018 6:10:45 PM

Load Case: 1.2D + 1.0Di + 1.0W	50 mph with 0.75 in Radial Ice	•				43 Itera	ations
Gust Response Factor 1.10	Ice Dead Load Factor :1.00	-		Wind In	nortano	e Factor	
Dead Load Factor : 1.20						e Factor	
Wind Load Factor : 1.00							•
46.00 20.9	244.7	0.0	10.0	20.0	255.2	0.0	
47.00 20.9	244.7	0.0 0.0	10.6 10.6	20.9 20.9	255.3 254.4	0.0 0.0	0.0 0.0
48.00 21.0	243.0	0.0	10.6	21.0	253.6	0.0	0.0
49.00 21.0	242.2	0.0	10.6	21.0	252.8	0.0	0.0
50.0021.051.0021.1	241.3 240.5	0.0 0.0	10.6 10.6	21.0 21.1	251.9 251.1	0.0 0.0	0.0 0.0
52.00 21.1	239.6	0.0	10.6	21.1	251.1	0.0	0.0
53.00 21.2	238.8	0.0	10.6	21.2	249.3	0.0	0.0
54.00 21.2	237.9	0.0	10.6	21.2	248.5	0.0	0.0
55.00 21.2 56.00 21.3	237.0 236.2	0.0	10.6	21.2	247.6	0.0	0.0
57.00 21.3	235.3	0.0 0.0	10.6 10.6	21.3 21.3	246.7 245.9	0.0 0.0	0.0 0.0
58.00 21.3	234.4	0.0	10.6	21.3	245.0	0.0	0.0
59.00 21.3	233.5	0.0	10.6	21.3	244.1	0.0	0.0
60.00 21.3 61.00 21.4	232.7	0.0	10.6	21.3	243.2	0.0	0.0
61.0021.462.0021.4	231.8 230.9	0.0 0.0	10.6 10.6	21.4 21.4	242.3 241.4	0.0 0.0	0.0 0.0
63.00 21.4	230.0	0.0	10.6	21.4	240.5	0.0	0.0
64.00 21.4	229.1	0.0	10.6	21.4	239.6	0.0	0.0
65.00 21.4 65.00 21.4	228.2	0.0	10.6	21.4	238.8	0.0	0.0
66.0021.467.0021.4	227.3 226.4	0.0 0.0	10.6 10.6	21.4 21.4	237.8 236.9	0.0 0.0	0.0 0.0
68.00 21.4	225.5	0.0	10.6	21.4	236.9 236.0	0.0	0.0
69.00 21.4	224.6	0.0	10.6	21.4	235.1	0.0	0.0
70.00 21.4	223.7	0.0	10.6	21.4	234.2	0.0	0.0
71.00 21.4 72.00 21.4	222.8	0.0	10.6	21.4	233.3	0.0	0.0
72.00 21.4 73.00 21.4	221.8 220.9	0.0 0.0	10.6 10.6	21.4 21.4	232.4 231.5	0.0 0.0	0.0 0.0
74.00 21.4	220.0	0.0	10.6	21.4	230.6	0.0	0.0
75.00 21.4	219.1	0.0	10.6	21.4	229.6	0.0	0.0
76.00 21.4 77.00 21.4	218.2	0.0	10.6	21.4	228.7	0.0	0.0
78.00 21.4	217.2 216.3	0.0 0.0	10.6 10.6	21.4 21.4	227.8 226.9	0.0 0.0	0.0 0.0
79.00 21.4	215.4	0.0	10.6	21.4	225.9	0.0	0.0
80.00 21.4	214.5	0.0	10.6	21.4	225.0	0.0	0.0
81.00 21.4	213.5	0.0	10.6	21.4	224.1	0.0	0.0
82.00 21.3 83.00 21.3	212.6 211.7	0.0 0.0	10.6 10.6	21.3 21.3	223.1 222.2	0.0 0.0	0.0 0.0
84.00 21.3	210.7	0.0	10.6	21.3	221.3	0.0	0.0
85.00 18.6	209.8	0.0	10.6	18.6	220.3	0.0	0.0
85.75 Top - Section 2 10.6	156.7	0.0	7.9	10.6	164.7	0.0	0.0
86.00 13.3 87.00 21.3	40.4 160.9	0.0	2.6	13.3	43.0	0.0	0.0
88.00 21.2	160.2	0.0 0.0	10.6 10.6	21.3 21.2	171.5 170.8	0.0 0.0	0.0 0.0
89.00 21.2	159.5	0.0	10.6	21.2	170.1	0.0	0.0
90.00 21.2	158.8	0.0	10.6	21.2	169.4	0.0	0.0
91.0021.292.0021.1	158.1 157.4	0.0	10.6	21.2	168.7	0.0	0.0 0.0
93.00 21.1 93.00 21.1	157.4	0.0 0.0	10.6 10.6	21.1 21.1	168.0 167.2	0.0 0.0	0.0
94.00 21.1	156.0	0.0	10.6	21.1	166.5	0.0	0.0
95.00 21.0	155.3	0.0	10.6	21.0	165.8	0.0	0.0
96.00 21.0 97.00 21.0	154.5	0.0	10.6	21.0	165.1	0.0	0.0
97.00 21.0 98.00 20.9	153.8 153.1	0.0 0.0	10.6 10.6	21.0 20.9	164.4 163.7	0.0 0.0	0.0 0.0
99.00 20.9	152.4	0.0	10.6	20.9	162.9	0.0	0.0
100.00 20.9	151.7	0.0	10.6	20.9	162.2	0.0	0.0
101.00 20.8	150.9	0.0	10.6	20.8	161.5	0.0	0.0

Site Name: Clch - Colchester, CT

Customer: AT&T MOBILITY

Code: ANSI/TIA-222-G Engineering Number: OAA735982_C3_01

© 2007 - 2018 by ATC IP LLC. All rights reserved. 7/2/2018 6:10:45 PM

~

Load Case: 1.2D + 1.0D	i + 1.0Wi	50 mph with 0.75 in Radial Ice					43 Itera	ations
Gust Response Factor 1.1		Ice Dead Load Factor :1.00			Wind I	mportanc	e Factor	
Dead Load Factor : 1.2							e Factor	
Wind Load Factor :1.0								
					,			
102.00 103.00	20.8 20.7	150.2	0.0	10.6	20.8	160.8	0.0 0.0	0.0
104.00	20.7	149.5 148.8	0.0 0.0	10.6 10.6	20.7 20.7	160.0 159.3	0.0	0.0 0.0
105.00	20.7	148.0	0.0	10.6	20.7	158.6	0.0	0.0
106.00	20.6	147.3	0.0	10.6	20.6	157.9	0.0	0.0
107.00	20.6	146.6	0.0	10.6	20.6	157.1	0.0	0.0
108.00	20.5	145.8	0.0	10.6	20.5	156.4	0.0	0.0
109.00 110.00	20.5 20.4	145.1 144.4	0.0	10.6 10.6	20.5 20.4	155.7 154.9	0.0 0.0	0.0 0.0
111.00	20.4	143.6	0.0 0.0	10.6	20.4	154.9	0.0	0.0
112.00	20.3	142.9	0.0	10.6	20.3	153.5	0.0	0.0
113.00	20.3	142.2	0.0	10.6	20.3	152.7	0.0	0.0
114.00	20.2	141.4	0.0	10.6	20.2	152.0	0.0	0.0
115.00	20.2	140.7	0.0	10.6	20.2	151.3	0.0	0.0
116.00 117.00	20.1 20.1	140.0 139.2	0.0 0.0	10.6 10.6	20.1 20.1	150.5 149.8	0.0 0.0	0.0 0.0
118.00	20.1	138.5	0.0	10.6	20.1	149.8	0.0	0.0
119.00	20.0	137.7	0.0	10.6	20.0	148.3	0.0	0.0
120.00	19.9	137.0	0.0	10.6	19.9	147.5	0.0	0.0
121.00	19.9	136.2	0.0	10.6	19.9	146.8	0.0	0.0
122.00	19.8	135.5	0.0	10.6	19.8	146.1	0.0	0.0
123.00 124.00	19.8 10.7	134.8	0.0	10.6	19.8 10.7	145.3	0.0	0.0
125.00	19.7 14.7	134.0 133.3	0.0 0.0	10.6 10.6	19.7 14.7	144.6 143.8	0.0 0.0	0.0 0.0
125.50 Top - Section 3	9.8	66.4	0.0	5.3	9.8	71.7	0.0	0.0
126.00	14.7	61.5	0.0	5.3	14.7	66.7	0.0	0.0
127.00	19.5	122.3	0.0	10.6	19.5	132.9	0.0	0.0
128.00	19.5	121.6	0.0	10.6	19.5	132.2	0.0	0.0
129.00 130.00	19.4 19.3	121.0 120.3	0.0 0.0	10.6 10.6	19.4 19.3	131.5 130.8	0.0 0.0	0.0 0.0
131.00	19.3	119.6	0.0	10.6	19.3	130.1	0.0	0.0
132.00	19.2	118.9	0.0	10.6	19.2	129.4	0.0	0.0
133.00	19.2	118.2	0.0	10.6	19.2	128.7	0.0	0.0
134.00	19.1	117.5	0.0	10.6	19.1	128.0	0.0	0.0
135.00 136.00	19.0 19.0	116.8 116.1	0.0	10.6	19.0	127.3 126.6	0.0 0.0	0.0 0.0
137.00	18.9	115.4	0.0 0.0	10.6 10.6	19.0 18.9	125.9	0.0	0.0
138.00	18.8	114.7	0.0	10.6	18.8	125.3	0.0	0.0
139.00	18.8	114.0	0.0	10.6	18.8	124.6	0.0	0.0
140.00	18.7	113.3	0.0	10.6	18.7	123.9	0.0	0.0
141.00	18.6	112.6	0.0	10.6	18.6	123.2	0.0	0.0
142.00 143.00	18.6 18.5	111.9 111.2	0.0	10.6	18.6	122.4 121.7	0.0 0.0	0.0 0.0
143.00	18.5	110.5	0.0 0.0	10.6 10.6	18.5 18.4	121.7 121.0	0.0	0.0
145.00	18.3	109.8	0.0	10.6	18.3	120.3	0.0	0.0
146.00	18.3	109.1	0.0	10.6	18.3	119.6	0.0	0.0
147.00	18.2	108.4	0.0	10.6	18.2	118.9	0.0	0.0
148.00	18.1	107.7	0.0	10.6	18.1	118.2	0.0	0.0
149.00 150.00	18.0 18.0	107.0 106.3	0.0 0.0	10.6 10.6	18.0 18.0	117.5 116.8	0.0 0.0	0.0 0.0
151.00	17.9	105.5	0.0	10.6	17.9	116.0	0.0	0.0
152.00	17.8	104.8	0.0	10.6	17.8	115.4	0.0	0.0
153.00	17.7	104.1	0.0	10.6	17.7	114.7	0.0	0.0
154.00	17.7	103.4	0.0	10.6	17.7	114.0	0.0	0.0
155.00	17.6	102.7	0.0	10.6	17.6	113.3	0.0	0.0
156.00 157.00	17.5 17.4	102.0	0.0	10.6	17.5 17.4	112.6	0.0	0.0
157.00	17.4	101.3	0.0	10.6	17.4	111.8	0.0	0.0

Code: ANSI/TIA-222-G Engineering Number: OAA735982_C3_01

© 2007 - 2018 by ATC IP LLC. All rights reserved. 7/2/2018 6:10:45 PM

Site Name: Clch - Colchester, CT

Load Case: 1.2D + 1.0D	i + 1.0Wi		50 n	nph wi	th 0.75 ir	n Radial Ic	e				43 Itera	ations
Gust Response Factor 1.2 Dead Load Factor :1.2 Wind Load Factor :1.0	20	Ice Dea	id Load F	actor	1.00					Importanc Importanc		
158.00	17.4	100.6			·		0.0	10.6	17.4	111.1	0.0	0.0
159.00	17.3	99.9					0.0	10.6	17.3	110.4	0.0	0.0
160.00	17.2	99.1					0.0	10.6	17.2	109.7	0.0	0.0
161.00	17.1	98.4					0.0	10.6	17.1	109.0	0.0	0.0
162.00	17.0	97.7					0.0	10.6	17.0	108.3	0.0	0.0
163.00	16.9	97.0					0.0	10.6	16.9	107.6	0.0	0.0
164.00	16.9	96.3					0.0	10.6	16.9	106.9	0.0	0.0
165.00	16.8	95.6					0.0	10.6	16.8	106.1	0.0	0.0
166.00	16.7	94.9					0.0	10.6	16.7	105.4	0.0	0.0
167.00	16.6	94.1					0.0	10.6	16.6	104.7	0.0	0.0
168.00	16.5	93.4					0.0	10.6	16.5	104.0	0.0	0.0
169.00	16.4	92.7					0.0	10.6	16.4	103.3	0.0	0.0
170.00	16.4	92.0					0.0	10.6	16.4	102.5	0.0	0.0
171.00	16.3	91.3					0.0	10.6	16.3	101.8	0.0	0.0
172.00	16.2	90.5					0.0	10.6	16.2	101.1	0.0	0.0
173.00	16.1	89.8					0.0	10.6	16.1	100.4	0.0	0.0
174.00	16.0	89.1					0.0	10.6	16.0	99.7	0.0	0.0
175.00	15.9	88.4					0.0	10.6	15.9	98.9	0.0	0.0
176.00	15.8	87.7					0.0	10.6	15.8	98.2	0.0	0.0
177.00	15.7	86.9					0.0	10.6	15.7	97.5	0.0	0.0
178.00	15.7	86.2					0.0	10.6	15.7	96.8	0.0	0.0
179.00	15.6	85.5					0.0	10.6	15.6	96.1	0.0	0.0
180.00 Appurtenance(s)	12.3	84.8	906.7	0.0	2,495.5	7,578.8	0.0	10.6	919.0	7,674.1	0.0	0.0
180.58	4.5	49.2					0.0	0.0	4.5	49.2	0.0	0.0
							Tot	als:	4,481.874	13,380.98	0.00	0.00

Site Name: Clch - Colchester, CT Customer: AT&T MOBILITY

Code: ANSI/TIA-222-G Engineering Number: OAA735982_C3_01

© 2007 - 2018 by ATC IP LLC. All rights reserved. 7/2/2018 6:10:45 PM

Load Case: 1.2D + 1.0Di + 1.0Wi

50 mph with 0.75 in Radial Ice

43 Iterations

-

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

Wind Importance Factor 1.00 Ice Importance Factor 1.00

Calculated Forces

Seg Elev	Pu FY (-)	Vu FX (-)	Tu MY	Mu MZ	Mu MX	Resultant Moment	phi Pn	phi Vn	phi Tn	phi Mn	Total Deflect l	Rotation	
 (ft)	(kips)	(kips)	(ft-kips)	(ft-kips)		(ft-kips)	(kips)	(kips)		(ft-kips)	(in)	(deg)	Ratio
 0.00	-43.38	-4.47	0.00	-547.19	0.00	547.19	4,173.88	2,086.94	7,090.68	3,501.82	0.00	0.00	0.167
1.00	-43.08	-4.46		-542.71		542.71			7,049.35		0.00	-0.01	0.166
2.00	-42.77	-4.45		-538.25		538.25	•	•	7,008.08	•	0.01	-0.02	0.166
3.00	-42.46	-4.44		-533.80		533.80			6,966.87		0.01	-0.04	0.165
4.00 5.00	-42.15 -41.83	-4.43 -4.41		-529.36 -524.94		529.36			6,925.71		0.02	-0.05	0.165 0.165
6.00	-41.52	-4.40		-520.52		524.94 520.52			6,884.61 6,843.57		0.03 0.05	-0.06 -0.07	0.165
7.00	-41.21	-4.39		-520.52		520.52			6,802.59		0.05	-0.07	0.164
8.00	-40.90	-4.38		-511.73		511.73			6,761.66		0.08	-0.10	0.164
9.00	-40.58	-4.36		-507.35		507.35	•		6,720.80	•	0.11	-0.11	0.163
10.00	-40.27	-4.35		-502.99		502.99			6,680.00		0.13	-0.12	0.162
11.00	-39.96	-4.34		-498.64	0.00	498.64			6,639.26		0.16	-0.14	0.162
12.00	-39.65	-4.33		-494.30		494.30	4,056.51	2,028.25	6,598.58	3,258.79	0.19	-0.15	0.161
13.00	-39.34	-4.31		-489.97		489.97			6,557.96		0.22	-0.16	0.161
14.00	-39.03	-4.30		-485.66		485.66			6,517.41			-0.17	0.161
15.00	-38.72	-4.29		-481.36		481.36			6,476.92		0.29	-0.19	0.160
16.00 17.00	-38.41 -38.10	-4.28 -4.26		-477.07 -472.79		477.07			6,436.49 6,396.13		0.33	-0.20 -0.21	0.160 0.159
18.00	-37.79	-4.20		-468.53		472.79 468.53			6,355.84		0.38 0.42	-0.21	0.159
19.00	-37.48	-4.24		-464.28		464.28	•	•	6,315.61			-0.24	0.158
20.00	-37.18	-4.22		-460.05		460.05			6,275.45		0.52	-0.25	0.158
21.00	-36.87	-4.21		-455.82		455.82			6,235.36		0.58	-0.26	0.157
22.00	-36.57	-4.20	0.00	-451.61	0.00	451.61			6,194.84		0.63	-0.28	0.157
23.00	-36.26	-4.18	0.00	-447.42	0.00	447.42	3,939.47	1,969.74	6,147.64	3,036.09	0.69	-0.29	0.157
24.00	-35.96	-4.17		-443.23		443.23			6,100.62			-0.30	0.156
25.00	-35.65	-4.16		-439.06		439.06	•	•	6,053.78	•		-0.32	0.156
26.00 27.00	-35.35 -35.05	-4.14		-434.91		434.91			6,007.13			-0.33	0.156
28.00	-33.05	-4.13 -4.12		-430.77 -426.64		430.77 426.64			5,960.65 5,914.36			-0.34 -0.35	0.155 0.155
29.00	-34.45	-4.12		-422.52		420.04			5,868.24			-0.33	0.155
30.00	-34.15	-4.09		-418.42		418.42			5,822.31			-0.38	0.154
31.00	-33.85	-4.07		-414.33		414.33			5,776.55			-0.39	0.154
32.00	-33.56	-4.06	0.00	-410.25	0.00	410.25			5,730.98			-0.41	0.154
33.00	-33.26	-4.05		-406.19		406.19			5,685.59			-0.42	0.153
34.00	-32.97	-4.03		-402.15		402.15			5,640.38				0.153
35.00	-32.67	-4.02		-398.12		398.12			5,595.34				0.153
36.00 37.00	-32.38 -32.09	-4.00 -3.99		-394.10 -390.10		394.10 390.10			5,550.49 5,505.82			-0.46 -0.47	0.152 0.152
38.00	-31.79	-3.93		-386.11		386.11			5,461.33			-0.49	0.152
39.00	-31.50	-3.96		-382.14		382.14			5,417.02			-0.50	0.151
40.00	-31.21	-3.94		-378.18		378.18			5,372.89				0.151
41.00	-30.92	-3.92		-374.24		374.24			5,328.94				0.151
42.00	-30.64	-3.91	0.00	-370.32	0.00	370.32			5,285.17			-0.54	0.150
43.00	-30.35	-3.89		-366.41		366.41			5,241.59				0.150
44.00	-30.06	-3.88		-362.52		362.52			5,198.18				0.150
44.75	-29.85	-3.87		-359.61		359.61			5,165.74				0.149
44.75	-29.85	-3.87		-359.61		359.61			4,358.22				0.177
45.00 46.00	-29.79 -29.53	-3.86 -3.84		-358.65 -354.79		358.65 354.79			4,350.67 4,320.50				0.177 0.176
40.00	-29.53	-3.83		-354.79		354.79			4,320.50				0.175
48.00	-29.02	-3.81		-347.11		347.11			4,260.30				0.175
							,						

Site Name: Clch - Colchester, CT

Code: ANSI/TIA-222-G Engineering Number: OAA735982_C3_01 © 2007 - 2018 by ATC IP LLC. All rights reserved. 7/2/2018 6:10:46 PM

Gust Response Factor 1.10 Dead Load Factor :1.20 Wind Importance Factor 1.00 Ice Importance Factor 1.00 Und Load Factor :1.20 Wind Importance Factor 1.00 Ice Importance Factor 1.00 Ice Importance Factor 1.00 49.00 28.77 3.80 0.00 343.30 3.001.62 1.500.81 4.230.28 2.089.17 3.20 0.64 0.174 50.00 28.57 3.78 0.00 339.51 2.093.12 1.495.55 4.200.21 2.074.37 3.44 0.66 0.172 51.00 27.76 3.73 0.00 328.21 0.00 328.21 2.967.42 1.485.71 4.170.17 2.030.13 3.77 -0.70 0.171 54.00 27.26 3.70 0.00 320.77 2.956.11 1.475.06 4.017.42 2.207.70 0.103 3.37 -0.70 0.171 2.550.01 4.01.21 2.207.70 0.10 1.244.48 2.2951.01 1.457.54 3.992.007.6 4.07 0.04 0.07 0.292.18 1.451.43 3.992.007 6.01.72 0.08 0.00 3.00.00 0.00 3.061.60<	Load Case:	1.2D + 1.0Di + 1.0W	'i 50	mph with 0.7	5 in Radial Ice	4	13 Iterations
Wind Load Factor : 1.00 49.00 -28.77 3.80 0.00 343.30 3.001.62 1.500.81 4.230.28 2.089.17 3.20 -0.64 0.174 50.00 -28.26 3.76 0.00 335.73 2.993.12 1.496.56 4.200.31 2.074.37 3.34 -0.66 0.173 52.00 -28.01 3.75 0.00 335.73 0.2994.12 1.496.56 4.200.31 2.077.24 3.66 0.073 54.00 -27.76 3.73 0.00 328.41 2.196.02 1.498.71 4.110.22 0.076 4.07 0.72 0.177 56.00 -27.07 3.66 0.00 317.07 2.996.71 4.306 4.07 0.74 0.017 57.00 -27.07 3.66 0.00 313.39 2.332.66 1.463.31 4.992.01 4.33 4.07 0.167 59.00 -26.33 3.61 0.00 302.45 0.00 306.73 2.996.26 1.464.71 3.6690.21.997.19	L .		Ice Dead Load	Factor :1.00			
$ \begin{array}{c} $50.00 & -28.51 & 3.78 & 0.00 & 339.51 & 2.98.51 & 2.98.59 & 1.492.30 & 4.70.39 & 2.074.57 & 3.34 & -0.66 & 0.172 \\ $52.00 & -28.01 & 3.75 & 0.00 & -331.96 & 0.00 & 331.96 & 2.976.02 & 1.488.01 & 4.170.39 & 2.044.85 & 3.62 & -0.69 & 0.172 \\ $53.00 & -27.51 & 3.71 & 0.00 & -324.48 & 0.00 & 324.21 & 2.967.42 & 1.488.01 & 4.110.52 & 2.044.85 & 3.62 & -0.69 & 0.172 \\ $55.00 & -27.26 & 3.70 & 0.00 & -320.77 & 0.00 & 320.77 & 2.967.14 & 1.475.06 & 4.051.26 & 2.000.76 & 4.07 & -0.74 & 0.171 \\ $56.00 & -27.26 & 3.70 & 0.00 & -320.77 & 0.00 & 317.07 & 2.961.11 & 4.75.06 & 4.051.26 & 2.000.76 & 4.07 & -0.74 & 0.170 \\ $56.00 & -27.02 & -3.68 & 0.00 & -313.39 & 0.00 & 309.73 & 2.923.861 & 1.461.94 & 3.942.37 & 1.71 & 0.48 & 0.77 & 0.168 \\ $58.00 & -26.52 & -3.65 & 0.00 & -309.73 & 0.00 & 306.07 & 2.941.41 & 1.470.50 & 4.051.26 & 2.1986.12 & 4.22 & 0.75 & 0.168 \\ $58.00 & -26.52 & -3.65 & 0.00 & -309.73 & 0.00 & 306.07 & 2.943.89 & 1.461.94 & 3.933.03 & 1.942.37 & 4.71 & -0.80 & 0.167 \\ $60.00 & -26.33 & -3.61 & 0.00 & -302.45 & 0.00 & 226.52 & 2.800.56 & 1.402.83 & 3.930.03 & 1.927.89 & 4.88 & -0.82 & 0.166 \\ $61.00 & -25.55 & -3.58 & 0.00 & -295.25 & 0.00 & 295.25 & 2.800.56 & 1.440.28 & 3.843.05 & 1.983.71 & 5.23 & 0.85 & 0.165 \\ $63.00 & -25.64 & -3.65 & 0.00 & -296.26 & 0.00 & 296.84 & 1.283.483 & 1.408.43 & 3.800.131.87.4 & 5.41 & -0.86 & 0.164 \\ $60.00 & -26.43 & -3.52 & 0.00 & -286.27 & 2.800.56 & 1.440.28 & 3.763.46 & 1.183 & 5.800 & 0.166 \\ $60.00 & -26.43 & -3.52 & 0.00 & -270.65 & 0.00 & 277.65 & 2.816.24 & 1.408.123.85 & 3.800.131.87.4 & 5.41 & -0.86 & 0.164 \\ $60.00 & -26.43 & -3.50 & 0.00 & -270.60 & 0.277.55 & 2.816.24 & 1.408.123.85 & 3.800.131.87.4 & 5.41 & -0.86 & 0.164 \\ $60.00 & -24.35 & -3.49 & 0.00 & -270.65 & 0.077.55 & 2.816.24 & 1.408.123.85 & 3.806.21 & 1.908.61 & 6.16 & -0.33 & 0.165 \\ $60.00 & -24.35 & -3.49 & 0.00 & -270.60 & 0.270.60 & 2.797.61 & 1.882.82 & 3.53.897.18 & 1.776.81 & 8.449 & 1.771.81 & 1.846.25 & 5.79 & -0.60 & 0.161 \\ $70.00 & -23.48 & -3.45 & 0.00 & -270.50 & 0.270.51 $					Ice Imp	portance F	actor 1.00
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$					3,001.62 1,500.81 4,230.28 2,089.17		
$ \begin{array}{c} 5200 & -28.01 & -3.75 & 0.00 & -331.96 & 0.00 & 331.96 & 2.976.02 \\ 7.468.01 & 4.10.57 & 2.044.85 & 3.62 & -0.69 & 0.172 \\ 54.00 & -27.51 & -3.71 & 0.00 & -324.48 & 0.00 & 324.48 & 2.968.79 \\ 1.475.06 & -0.072 & 0.00 & -6.70 & -0.74 \\ 0.500 & -27.02 & -3.68 & 0.00 & -317.07 & 0.00 & 317.07 & 2.996.11 \\ -475.06 & -27.02 & -3.68 & 0.00 & -313.39 & 0.00 & 317.07 & 2.996.11 \\ -475.06 & -27.02 & -3.68 & 0.00 & -313.39 & 0.00 & 317.07 & 2.941.41 \\ -475.06 & -0.26.28 & -3.65 & 0.00 & -309.73 & 0.00 & 309.73 & 2.923.88 \\ -560 & -26.28 & -3.65 & 0.00 & -309.73 & 0.00 & 309.73 & 2.923.88 \\ -560 & -26.28 & -3.65 & 0.00 & -309.73 & 0.00 & 300.68 & 2.915.07 \\ -500 & -26.28 & -3.65 & 0.00 & -309.73 & 0.00 & 302.45 & 2.906.28 \\ -146.14 & -174.804.804.501 & 919.42.57 & 4.71 & -0.80 & 0.167 \\ -60.00 & -26.03 & -3.61 & 0.00 & -302.45 & 0.00 & 298.64 & 2.906.28 \\ -146.14 & -174.804.845 & 0.198.345 & 0.1992.78 & 4.78 & 0.167 \\ -60.00 & -25.55 & -3.58 & 0.00 & -295.25 & 0.00 & 295.25 & 2.880.56 \\ -440.28 & 3.384.50 & 1.991.76 & 5.05 & -0.83 & 0.165 \\ -62.00 & -25.55 & -3.58 & 0.00 & -281.67 & 0.00 & 281.67 & 2.887.69 & 1.440.21 & 3.843.450 & 1.993.71 & 5.23 & -0.85 & 0.165 \\ -63.00 & -25.07 & -3.54 & 0.00 & -281.67 & 0.00 & 284.57 & 2.887.691 & 4.402.89 & 3.731.861 & 1893.47 & 1.457.44 & 5.47 & 0.88 & 0.164 \\ -64.00 & -25.07 & -3.54 & 0.00 & -281.05 & 0.284.57 & 2.881.14 & 2.883.430.61 & 1.993.71 & 5.23 & -0.85 & 0.165 \\ -67.00 & -24.59 & -3.50 & 0.00 & -281.05 & 2.879.10 & 1.445.55 & 3.597.68 & 1.986.8 & 0.164 \\ -66.00 & -24.59 & -3.50 & 0.00 & -281.05 & 2.879.10 & 1.448.53 & 3.606.11 & 1793.02 & 6.35 & 0.94 & 0.161 \\ -70.00 & -23.68 & -3.45 & 0.00 & -271.56 & 2.777.64 & 1.388.23 & 3.530.61 & 1.793.02 & 6.35 & 0.94 & 0.161 \\ -70.00 & -23.68 & -3.43 & 0.00 & -271.56 & 0.771.55 & 2.7764.1 & 3.882.33 & 3.530.61 & 1.793.07 & 6.76 & 0.98 & 0.162 \\ -70.00 & -23.48 & -3.45 & 0.00 & -274.06 & 2.603.37 & 2.7764.1 & 3.882.33 & 3.504.91.790.171.22 & 7.38 & -0.00 & 0.162 \\ -70.00 & -23.48 & -3.45 & 0.00 & -274.06 & 0.263.37 & 2.7764.1$					2,993.12 1,496.56 4,200.31 2,074.37		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	52.00 -28.01	-3.75 0.00	-331.96 0.00	331.96	2,976.02 1,488.01 4,140.52 2,044.85	3.62	-0.69 0.172
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$							
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$						4.07	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	57.00 -26.77	-3.66 0.00	-313.39 0.00	313.39	2,932.66 1,466.33 3,992.03 1,971.51	4.38	-0.77 0.168
		-3.65 0.00 -3.63 0.00					
	60.00 -26.03	-3.61 0.00	-302.45 0.00	302.45	2,906.28 1,453.14 3,903.69 1,927.89	4.88	-0.82 0.166
					2,867.69 1,433.85 3,800.13 1,876.74	5.41	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	65.00 -24.83	-3.52 0.00	-284.57 0.00	284.57	2,841.96 1,420.98 3,731.86 1,843.02	5.78	-0.90 0.163
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	68.00 -24.12	-3.47 0.00	-274.06 0.00	274.06	2,803.37 1,401.69 3,630.61 1,793.02	6.35	-0.94 0.161
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$							
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$					2,764.78 1,382.39 3,530.76 1,743.71	6. 9 6	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	73.00 -22.95	-3.37 0.00	-256.92 0.00	256.92	2,739.05 1,369.53 3,464.97 1,711.22	7.38	-1.02 0.159
$\begin{array}{cccccccccccccccccccccccccccccccccccc$						7.60 7.82	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	76.00 -22.26	-3.31 0.00	-246.86 0.00	246.86	2,700.46 1,350.23 3,367.44 1,663.05	8.04	-1.07 0.157
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$							
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		-3.26 0.00					
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	81.00 -21.12	-3.22 0.00	-230.48 0.00	230.48	2,636.14 1,318.07 3,207.98 1,584.30	9.21	-1.15 0.153
84.00-20.46-3.160.00-220.900.00220.902,597.551,298.773,114.161,537.979.95-1.200.15285.00-20.24-3.140.00-217.740.00217.742,584.681,292.343,083.201,522.6810.20-1.220.15185.75-20.07-3.130.00-215.390.00215.392,575.041,287.523,060.081,511.2610.40-1.230.15085.75-20.07-3.130.00-214.600.00214.601,543.70771.851,848.04912.6810.46-1.240.24986.00-20.03-3.120.00-214.600.00211.491,539.55769.771,833.81905.6510.72-1.260.24687.00-19.68-3.080.00-208.391,535.36767.681,819.59898.6310.99-1.280.24589.00-19.51-3.070.00-205.300.00205.301,531.13765.571,805.38891.6111.26-1.310.24390.00-19.17-3.030.00-202.240.022.241,526.87763.441,791.17884.5911.54-1.330.24191.00-19.17-3.030.00-199.190.00199.191,522.58761.291,776.98877.5811.82-1.360.24092.00-19.00-3.020.00-196.150.01151.82759.121,762.79						9.45 9.70	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	84.00 -20.46	-3.16 0.00	-220.90 0.00	220.90	2,597.55 1,298.77 3,114.16 1,537.97	9.95	-1.20 0.152
86.00-20.03-3.120.00-214.600.00214.601,543.70771.851,848.04912.6810.46-1.240.24887.00-19.85-3.100.00-211.490.00211.491,539.55769.771,833.81905.6510.72-1.260.24688.00-19.68-3.080.00-208.390.00208.391,535.36767.681,819.59898.6310.99-1.280.24589.00-19.51-3.070.00-205.300.00205.301,531.13765.571,805.38891.6111.26-1.310.24390.00-19.34-3.050.00-202.240.00202.241,526.87763.441,791.17884.5911.54-1.330.24191.00-19.17-3.030.00-199.190.00199.191,522.58761.291,776.98877.5811.82-1.360.24092.00-19.00-3.020.00-196.150.00196.151,518.25759.121,76.98877.5812.10-1.380.23893.00-18.84-3.000.00-193.140.00193.141,509.48754.741,734.46856.5912.69-1.430.23494.00-18.67-2.980.00-187.160.00187.161,500.47752.521,706.18842.6213.30-1.450.23396.00-18.34-2.950.00-184.190.00187.16							
87.00-19.85-3.100.00-211.490.00211.491,539.55769.771,833.81905.6510.72-1.260.24688.00-19.68-3.080.00-208.390.00208.391,535.36767.681,819.59898.6310.99-1.280.24589.00-19.51-3.070.00-205.300.00205.301,531.13765.571,805.38891.6111.26-1.310.24390.00-19.34-3.050.00-202.240.00202.241,526.87763.441,791.17884.5911.54-1.330.24191.00-19.17-3.030.00-199.190.00199.191,522.58761.291,776.98877.5811.82-1.360.24092.00-19.00-3.020.00-196.150.00196.151,518.25759.121,766.98877.5812.10-1.380.23893.00-18.84-3.000.00-193.140.00193.141,509.48754.741,734.46856.5912.69-1.430.23494.00-18.67-2.980.00-190.141,509.48754.741,734.46856.5912.69-1.430.23495.00-18.50-2.960.00-187.160.00187.161,500.57750.291,706.18842.6213.30-1.450.23396.00-18.17-2.930.00-181.250.00181.251,496.06748.03							
89.00-19.51-3.070.00-205.300.00205.301,531.13765.571,805.38891.6111.26-1.310.24390.00-19.34-3.050.00-202.240.00202.241,526.87763.441,791.17884.5911.54-1.330.24191.00-19.17-3.030.00-199.190.00199.191,522.58761.291,776.98877.5811.82-1.360.24092.00-19.00-3.020.00-196.150.00196.151,518.25759.121,762.79870.5812.10-1.380.23893.00-18.84-3.000.00-193.140.00193.141,513.88756.941,748.62863.5812.40-1.400.23694.00-18.67-2.980.00-190.140.00190.141,509.48754.741,734.46856.5912.69-1.430.23495.00-18.50-2.960.00-187.160.00187.161,505.04752.521,720.31849.6012.99-1.450.23396.00-18.17-2.930.00-181.250.00181.251,496.06748.031,692.06835.6413.61-1.500.229	87.00 -19.85	-3.10 0.00	-211.49 0.00	211.49	1,539.55 769.77 1,833.81 905.65	10.72	-1.26 0.246
90.00 -19.34 -3.05 0.00 -202.24 0.00 202.24 1,526.87 763.44 1,791.17 884.59 11.54 -1.33 0.241 91.00 -19.17 -3.03 0.00 -199.19 0.00 199.19 1,522.58 761.29 1,776.98 877.58 11.82 -1.36 0.240 92.00 -19.00 -3.02 0.00 -196.15 0.00 196.15 1,518.25 759.12 1,762.79 870.58 12.10 -1.38 0.238 93.00 -18.84 -3.00 0.00 -193.14 0.00 193.14 1,513.88 756.94 1,748.62 863.58 12.40 -1.40 0.236 94.00 -18.67 -2.98 0.00 -190.14 0.00 190.14 1,509.48 754.74 1,734.46 856.59 12.69 -1.43 0.234 95.00 -18.50 -2.96 0.00 -187.16 0.00 187.16 1,500.57 750.29 1,706.18 842.62 13.30 -1.48 0.233 96.00 -18.17 -2.93 0.00							
92.00-19.00-3.020.00-196.150.00196.151,518.25759.121,762.79870.5812.10-1.380.23893.00-18.84-3.000.00-193.140.00193.141,513.88756.941,748.62863.5812.40-1.400.23694.00-18.67-2.980.00-190.140.00190.141,509.48754.741,734.46856.5912.69-1.430.23495.00-18.50-2.960.00-187.160.00187.161,505.04752.521,720.31849.6012.99-1.450.23396.00-18.34-2.950.00-184.190.00184.191,500.57750.291,706.18842.6213.30-1.480.23197.00-18.17-2.930.00-181.250.00181.251,496.06748.031,692.06835.6413.61-1.500.229	90.00 -19.34	-3.05 0.00	-202.24 0.00	202.24	1,526.87 763.44 1,791.17 884.59	11.54	-1.33 0.241
93.00-18.84-3.000.00-193.140.00193.141,513.88756.941,748.62863.5812.40-1.400.23694.00-18.67-2.980.00-190.140.00190.141,509.48754.741,734.46856.5912.69-1.430.23495.00-18.50-2.960.00-187.160.00187.161,505.04752.521,720.31849.6012.99-1.450.23396.00-18.34-2.950.00-184.190.00184.191,500.57750.291,706.18842.6213.30-1.480.23197.00-18.17-2.930.00-181.250.00181.251,496.06748.031,692.06835.6413.61-1.500.229							
95.00 -18.50 -2.96 0.00 -187.16 0.00 187.16 1,505.04 752.52 1,720.31 849.60 12.99 -1.45 0.233 96.00 -18.34 -2.95 0.00 -184.19 0.00 184.19 1,500.57 750.29 1,706.18 842.62 13.30 -1.48 0.231 97.00 -18.17 -2.93 0.00 -181.25 0.00 181.25 1,496.06 748.03 1,692.06 835.64 13.61 -1.50 0.229					1,513.88 756.94 1,748.62 863.58		
97.00 -18.17 -2.93 0.00 -181.25 0.00 181.25 1,496.06 748.03 1,692.06 835.64 13.61 -1.50 0.229	95.00 -18.50	-2.96 0.00	-187.16 0.00	187.16	1,505.04 752.52 1,720.31 849.60	12.99	-1.45 0.233
					1,500.57 750.29 1,706.18 842.62 1,496.06 748.03 1,692.06 835.64		
	98.00 -18.01	-2.91 0.00	-178.32 0.00	178.32	1,491.52 745.76 1,677.95 828.68	13.93	-1.52 0.227
99.00 -17.84 -2.89 0.00 -175.41 0.00 175.41 1,486.94 743.47 1,663.86 821.72 14.25 -1.55 0.225 100.00 -17.68 -2.88 0.00 -172.51 0.00 172.51 1,482.33 741.16 1,649.78 814.77 14.58 -1.57 0.224	100.00 -17.68	-2.88 0.00	-172.51 0.00	172.51		14.58	-1.57 0.224
101.00 -17.52 -2.86 0.00 -169.64 0.00 169.64 1,477.68 738.84 1,635.72 807.82 14.91 -1.60 0.222 102.00 -17.36 -2.84 0.00 -166.78 0.00 166.78 1,473.00 736.50 1,621.68 800.89 15.25 -1.62 0.220					1,477.68 738.84 1,635.72 807.82		
102.00 -17.30 -2.84 0.00 166.78 0.00 166.78 1,473.00 736.30 1,621.68 800.89 13.25 -1.02 0.220 103.00 -17.20 -2.82 0.00 -163.94 0.00 163.94 1,468.28 734.14 1,607.66 793.96 15.59 -1.65 0.218							

Site Name: Clch - Colchester, CT

Code: ANSI/TIA-222-G Engineering Number: OAA735982_C3_01 © 2007 - 2018 by ATC IP LLC. All rights reserved. 7/2/2018 6:10:46 PM

Load Cas	Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph with 0.75 in Radial Ice									43 Itera	tions
	onse Facto		Ice Dea	ad Load I	Wind Importance Factor 1.00 Ice Importance Factor 1.00						
	oad Factor							ice imp	ortance	Factor :	.00
	7.04 -2.8		-161.12	0.00	161.12	1,463.52	731.76 1,593.65	5 787.04	15.94	-1.67	0.216
105.00 -1	6.88 -2.7 6.72 -2.7	0.00	-158.31 -155.53	0.00 0.00	158.31 155.53	1,458.73 1,453.91	729.37 1,579.66	5 780.14	16.29 16.65	-1.69 -1.72	0.215 0.213
	6.56 -2.7	0.00	-155.55	0.00	155.55	1,455.91	726.95 1,565.69 724.52 1,551.74	766.35	17.01	-1.74	0.211
	6.41 -2.7		-150.01	0.00	150.01	1,444.15	722.07 1,537.82		17.38	-1.77	0.209
	6.25 -2.7 6.09 -2.6		-147.28 -144.57	0.00 0.00	147.28 144.57	1,439.21 1,434.25	719.61 1,523.9 [°] 717.12 1,510.03		17.75 18.13	-1.79 -1.81	0.207 0.205
111.00 -1	5.94 -2.6	67 0.00	-141.88	0.00	141.88	1,429.24	714.62 1,496.17	738.90	18.51	-1.84	0.203
	5.79 -2.6 5.63 -2.6		-139.20 -136.55	0.00 0.00	139.20 136.55	1,424.21 1,419.13	712.10 1,482.33 709.57 1,468.51		18.90 19.29	-1.86 -1.88	0.201 0.199
114.00 -1	5.48 -2.6	62 0.00	-133.91	0.00	133.91	1,414.02	707.01 1,454.73	8 718.43	19.68	-1.91	0.197
	5.33 -2.6 5.18 -2.5		-131.29 -128.69	0.00 0.00	131.29 128.69	1,408.88 1,403.70	704.44 1,440.96 701.85 1,427.22		20.09 20.49	-1.93 -1.95	0.195 0.193
117.00 -1	5.03 -2.5	6 0.00	-126.11	0.00	126.11	1,398.48	699.24 1,413.51	698.08	20.91	-1.98	0.191
	4.88 -2.5 4.73 -2.5		-123.55 -121.01	0.00 0.00	123.55 121.01	1,393.23 1,387.95	696.62 1,399.83 693.97 1,386.17		21.32 21.74	-2.00 -2.02	0.189 0.187
120.00 -1	4.58 -2.5	50 0.00	-118.49	0.00	118.49	1,382.63	691.31 1,372.54	677.85	22.17	-2.05	0.185
	4.44 -2.4 4.29 -2.4		-115.98 -113.50	0.00 0.00	115.98 113.50	1,377.27 1,371.88	688.64 1,358.94 685.94 1,345.37		22.60 23.04	-2.07 -2.09	0.183 0.181
123.00 -1	4.14 -2.4	15 0.00	-111.03	0.00	111.03	1,366.45	683.23 1,331.83	657.74	23.48	-2.12	0.179
	4.00 -2.4 3.85 -2.4		-108.59 -106.16	0.00 0.00	108.59 106.16	1,360.99 1,355.49	680.49 1,318.33 677.74 1,304.85		23.92 24.38	-2.14 -2.16	0.177 0.175
	3.78 -2.4		-100.10	0.00	104.96	1,352.73	676.36 1,298.12		24.60	-2.17	0.174
	3.78 -2.4 3.72 -2.3		-104.96	0.00	104.96	1,127.00	563.50 1,084.4		24.60 24.83	-2.17 -2.19	0.208 0.207
	3.58 -2.3		-103.76 -101.37	0.00 0.00	103.76 101.37	1,124.94 1,120.78	562.47 1,079.04 560.39 1,068.37		25.29	-2.21	0.204
	3.45 -2.3		-99.00	0.00	99.00	1,116.59	558.29 1,057.6	522.31	25.76 26.23	-2.24 -2.26	0.202 0.199
	3.32 -2.3 3.19 -2.3		-96.65 -94.32	0.00 0.00	96.65 94.32	1,112.36 1,108.10	556.18 1,046.9 ² 554.05 1,036.24		26.23	-2.20	0.195
	3.06 -2.2	29 0.00	-92.01	0.00	92.01	1,103.80	551.90 1,025.58	3 506.50	27.19	-2.31	0.193
	2.93 -2.2 2.80 -2.2		-89.71 -87.44	0.00 0.00	89.71 87.44	1,099.47 1,095.10	549.73 1,014.94 547.55 1,004.33		27.67 28.17	-2.34 -2.36	0.191 0.188
134.00 -1	2.67 -2.2	24 0.00	-85.18	0.00	85.18	1,090.69	545.35 993.73	490.77	28.66	-2.39	0.185
	2.54 -2.2 2.42 -2.2		-82.94 -80.72	0.00 0.00	82.94 80.72	1,086.26 1,081.78	543.13 983.15 540.89 972.60		29.17 29.67	-2.41 -2.44	0.182 0.180
137.00 -1	2.29 -2.1	0.00	-78.52	0.00	78.52	1,077.27	538.64 962.07	475.13	30.19	-2.46	0.177
	2.17 -2. ² 2.04 -2. ²		-76.34 -74.18	0.00 0.00	76.34 74.18	1,072.73 1,068.14	536.36 951.56 534.07 941.07		30.71 31.23	-2.49 -2.51	0.174 0.171
140.00 -1	1.92 -2.7		-72.04	0.00	72.04	1,063.53	531.76 930.61		31.76	-2.53	0.168
	1.79 -2. 1.67 -2.0		-69.92 -67.81	0.00 0.00	69.92 67.81	1,058.88 1,054.19	529.44 920.17 527.09 909.76		32.29 32.83	-2.56 -2.58	0.165 0.162
	1.55 -2.0		-65.73	0.00	65.73	1,049.47			33.37	-2.60	0.159
	1.43 -2.0		-63.66	0.00	63.66	1,044.71	522.35 889.01		33.92	-2.63 -2.65	0.156 0.153
	1.31 -2.0 1.19 -2.0		-61.62 -59.59	0.00 0.00	61.62 59.59	1,039.92 1,035.09	519.96 878.68 517.54 868.38		34.47 35.03	-2.67	0.150
147.00 -1	1.07 -1.9	99 0.00	-57.58	0.00	57.58	1,030.22	515.11 858.10) 423.79	35.59	-2.69 -2.71	0.147 0.143
	0.95 -1.9 0.84 -1.9		-55.60 -53.63	0.00 0.00	55.60 53.63	1,025.32 1,020.39	512.66 847.86 510.19 837.64		36.15 36.72	-2.71 -2.73	0.140
150.00 -1	0.72 -1.9	0.00	-51.68	0.00	51.68	1,015.42	507.71 827.46	6 408.65	37.30	-2.76	0.137
	0.60 -1.9 0.49 -1.8		-49.75 -47.84	0.00 0.00	49.75 47.84	1,010.41 1,005.37	505.21 817.30 502.69 807.18		37.88 38.46	-2.78 -2.80	0.134 0.130
153.00 -1	0.37 -1.8	37 0.00	-45.95	0.00	45.95	1,000.30	500.15 797.09	393.65	39.05	-2.82	0.127
	0.26 -1.8 0.15 -1.8		-44.08 -42.24	0.00 0.00	44.08 42.24	995.19 990.04	497.59 787.03 495.02 777.01		39.64 40.24	-2.84 -2.86	0.124 0.120
156.00 -1	0.04 -1.	31 0.00	-40.41	0.00	40.41	983.06	491.53 765.62	2 378.11	40.84	-2.87	0.117
	-9.92 -1. [*] -9.81 -1.*		-38.60	0.00	38.60	975.56 968.05	487.78 753.9 ² 484.03 742.29		41.44 42.05	-2.89 -2.91	0.114 0.111
100.00 -	-3.01 -1.	77 0.00	-36.81	0.00	36.81	968.05	484.03 742.29	300.39	42.00	-2,31	0.111

Site Name: Clch - Colchester, CT

Customer: AT&T MOBILITY

Code: ANSI/TIA-222-G Engineering Number: OAA735982_C3_01

© 2007 - 2018 by ATC IP LLC. All rights reserved. 7/2/2018 6:10:46 PM

Load Case: 1.2D + 1.0Di + 1.0Wi				50 mph with 0.75 in Radial Ice						43 Iterations			
Gust Response Factor 1.10 Dead Load Factor : 1.20 Wind Load Factor : 1.00				•						oortance Factor 1.00 oortance Factor 1.00			
159.00 160.00	-9.70 -9.60	-1.75 -1.73	0.00 0.00	-35.03 -33.28	0.00 0.00	35.03 33.28	960.55 953.04	480.27 476.52	730.76 719.32	360.90 355.25	42.66 43.27	-2.93 -2.95	0.107
161.00	-9.49	-1.71	0.00	-31.55	0.00	31.55	945.54	472.77	707.97	349.64	43.89	-2.96	0.100
162.00	-9.38	-1.69	0.00	-29.84	0.00	29.84	938.04	469.02	696.71	344.08	44.51	-2.98	0.097
163.00	-9.27	-1.67	0.00	-28.15	0.00	28.15	930.53	465.27	685.54	338.56	45.14	-2.99	0.093
164.00 165.00	-9.17 -9.06	-1.65	0.00	-26.48	0.00	26.48	923.03	461.51	674.47	333.09	45.77	-3.01	0.089
166.00	-9.06	-1.63 -1.61	0.00 0.00	-24.83 -23.20	0.00 0.00	24.83 23.20	915.52 908.02	457.76 454.01	663.48 652.58	327.67 322.29	46.40 47.03	-3.02 -3.04	0.086 0.082
167.00	-8.85	-1.59	0.00	-21.59	0.00	21.59	900.52	450.26	641.77	316.95	47.67	-3.05	0.078
168.00	-8.75	-1.57	0.00	-20.00	0.00	20.00	893.01	446.51	631.06	311.65	48.31	-3.06	0.074
169.00	-8.65	-1.55	0.00	-18.43	0.00	18.43	885.51	442.75	620.43	306.41	48.95	-3.07	0.070
170.00	-8.54	-1.53	0.00	-16.88	0.00	16.88	878.00	439.00	609.89	301.20	49.60	-3.09	0.066
171.00	-8.44	-1.51	0.00	-15.35	0.00	15.35	870.50	435.25	599.45	296.04	50.25	-3.10	0.062
172.00	-8.34	-1.49	0.00	-13.84	0.00	13.84	863.00	431.50	589.09	290.93	50.89	-3.11	0.057
173.00	-8.24	-1.47	0.00	-12.35	0.00	12.35	855.49	427.75	578.82	285.86	51.55	-3.12	0.053
174.00	-8.14	-1.45	0.00	-10.89	0.00	10.89	847.99	423.99	568.65	280.83	52.20	-3.12	0.048
175.00	-8.05	-1.43	0.00	-9.44	0.00	9.44	840.48	420.24	558.56	275.85	52.85	-3.13	0.044
176.00 177.00	-7.95	-1.41 -1.39	0.00 0.00	-8.01	0.00	8.01	832.98	416.49	548.57	270.92	53.51	-3.14	0.039
178.00	-7.85 -7.76		0.00	-6.60	0.00	6.60	825.48	412.74	538.66	266.02	54.17	-3.14	0.034
179.00	-7.66	-1.37 -1.35	0.00	-5.21 -3.85	0.00 0.00	5.21 3.85	817.97 810.47	408.99 405.23	528.85 519.12	261.18 256.38	54.83 55.49	-3.15 -3.15	0.029
180.00	-0.05	-0.01	0.00	0.00	0.00	0.00	802.96	401.48	509.49	250.50	56.15	-3.15	0.000
180.58	0.00	0.00	0.00	0.00	0.00	0.00	798.59	399.29	503.91	248.86	56.53	-3.15	0.000

Site Name: Clch - Colchester, CT

Customer:

AT&T MOBILITY

Code: ANSI/TIA-222-G Engineering Number: OAA735982_C3_01

© 2007 - 2018 by ATC IP LLC. All rights reserved. 7/2/2018 6:10:46 PM

Load Case: 1.0D + 1.0W Se

Serviceability 60 mph

42 Iterations

Gust Response Factor 1.10

Dead Load Factor : 1.00 Wind Load Factor : 1.00

Willu Loau Factor . 1.00

Wind Importance Factor 1.00

Applied Segment Forces Summary

		Shaft F	orces		Discret	e Forces		Linear Fo	orces		Sum of	Forces	
Seg			Dead		Torsion	Moment	Dead		Dead		Dead	Torsion	Moment
Elev		Wind FX	Load	Wind FX	MY	MZ	Load	Wind FX		Wind FX	Load	MY	MZ
(ft)	Description	(lb)	(lb)	(lb)	(lb-ft)	(lb-ft)	(lb)	(lb)	(lb)	(lb)	(lb)	(lb-ft)	(lb)
0.00		12.1	0.0					0.0	0.0	12.1	0.0	0.0	0.0
1.00		24.2	197.5					0.0	8.8		206.3	0.0	
2.00		24.1	196.8					0.0	8.8		205.6	0.0	
3.00		24.0	196.1					0.0	8.8	24.0	204.9	0.0	0.0
4.00		23.9	195.4					0.0	8.8	23.9	204.2	0.0	
5.00		23.8	194.7					0.0	8.8	23.8	203.5	0.0	
6.00		23.7	194.0					0.0	8.8		202.8	0.0	
7.00		23.7	193.3					0.0	8.8	23.7	202.1	0.0	0.0
8.00		23.6	192.6					0.0	8.8	23.6	201.4	0.0	0.0
9.00		23.5	191.9					0.0	8.8	23.5	200.7	0.0	0.0
10.00		23.4	191.2					0.0	8.8	23.4	200.0	0.0	0.0
11.00		23.3	190.5					0.0	8.8		199.3	0.0	
12.00		23.2	189.8					0.0	8.8	23.2	198.6	0.0	0.0
13.00		23.2	189.1					0.0	8.8	23.2	197.9	0.0	0.0
14.00		23.1	188.4					0.0	8.8	23.1	197.2	0.0	0.0
15.00		23.0	187.8					0.0	8.8	23.0	196.6	0.0	0.0
16.00		22.9	187.1					0.0	8.8	22.9	195.9	0.0	0.0
17.00		22.8	186.4					0.0	8.8	22.8	195.2	0.0	0.0
18.00		22.7	185.7					0.0	8.8	22.7	194.5	0.0	0.0
19.00		22.7	185.0					0.0	8.8	22.7	193.8	0.0	0.0
20.00		22.6	184.3					0.0	8.8		193.1	0.0	0.0
21.00		22.5	183.6					0.0	8.8	22.5	192.4	0.0	0.0
22.00		22.4	182.9					0.0	8.8		191.7	0.0	0.0
23.00		22.3	182.2					0.0	8.8	22.3	191.0	0.0	0.0
24.00		22.2	181.5					0.0	8.8	22.2	190.3	0.0	0.0
25.00		22.2	180.8					0.0	8.8	22.2	189.6	0.0	0.0
26.00		22.1	180.1					0.0	8.8	22.1	188.9	0.0	0.0
27.00		22.0	179.4					0.0	8.8	22.0	188.2	0.0	0.0
28.00		21.9	178.7					0.0	8.8	21.9	187.5	0.0	0.0
29.00		21.8	178.1					0.0	8.8	21.8	186.9	0.0	0.0
30.00		21.8	177.4					0.0	8.8	21.8	186.2	0.0	0.0
31.00		21.9	176.7					0.0	8.8	21.9	185.5	0.0	0.0
32.00		22.0	176.0					0.0	8.8	22.0	184.8	0.0	
33.00		22.1	175.3					0.0	8.8	22.1	184.1	0.0	0.0
34.00		22.2	174.6					0.0	8.8	22.2	183.4	0.0	0.0
35.00		22.3	173.9					0.0	8.8	22.3	182.7	0.0	0.0
36.00		22.4	173.2					0.0	8.8	22.4	182.0	0.0	0.0
37.00		22.5	172.5					0.0	8.8	22.5	181.3	0.0	0.0
38.00		22.5	171.8					0.0	8.8	22.5	180.6	0.0	0.0
39.00		22.6	171.1					0.0	8.8	22.6	179.9	0.0	0.0
40.00		22.7	170.4					0.0	8.8		179.2		
41.00		22.8	169.7					0.0	8.8	22.8	178.5	0.0	0.0
42.00		22.8	169.0					0.0	8.8	22.8	177.8	0.0	0.0
43.00		22.9	168.4					0.0	8.8		177.2	0.0	
44.00		20.1	167.7					0.0	8.8	20.1	176.5	0.0	0.0
44.75	Top - Section 1	11.5	125.3					0.0	6.6	11.5	131.9		
45.00		14.4	35.8					0.0	2.2	14.4	38.0	0.0	0.0

Site Name: Clch - Colchester, CT

Code: ANSI/TIA-222-G Engineering Number: OAA735982_C3_01 © 2007 - 2018 by ATC IP LLC. All rights reserved. 7/2/2018 6:10:52 PM

Customer: AT&T MOBILITY

 Load Case:
 1.0D + 1.0W

 Gust Response Factor 1.10

Serviceability 60 mph

42 Iterations
Wind Importance Factor 1.00

	Response Factor 1					wind I	mportance	e Factor	00. t
De	ead Load Factor : 1	1.00							
	/ind Load Factor :1								
46.00		23.1	142.8	 0.0	8.8	23.1	151.6	0.0	0.0
47.00		23.1	142.2	0.0	8.8	23.1	151.0	0.0	0.0
48.00		23.1	141.6	0.0	8.8	23.1	150.4	0.0	0.0
49.00		23.2	141.0	0.0	8.8	23.2	149.8	0.0	0.0
50.00		23.2	140.4	0.0	8.8	23.2	149.2	0.0	0.0
51.00		23.3	139.8	0.0	8.8	23.3	148.6	0.0	0.0
52.00		23.3	139.2	0.0	8.8	23.3	148.0	0.0	0.0
53.00		23.3	138.6	0.0	8.8	23.3	147.4	0.0	0.0
54.00		23.3	138.0	0.0	8.8	23.3	146.8	0.0	0.0
55.00		23.4	137.4	0.0	8.8	23.4	146.2	0.0	0.0
56.00		23.4	136.8	0.0	8.8	23.4	145.6	0.0	0.0
57.00		23.4	136.2	0.0	8.8	23.4	145.0	0.0	0.0
58.00		23.4	135.7	0.0	8.8	23.4	144.5	0.0	0.0
59.00		23.4	135.1	0.0	8.8	23.4	143.9	0.0	0.0
60.00		23.4	134.5	0.0	8.8	23.4	143.3	0.0	0.0
61.00		23.4	133.9	0.0	8.8	23.4	142.7	0.0	0.0
62.00		23.4	133.3	0.0	8.8	23.4	142.1	0.0	0.0
63.00		23.5	132.7	0.0	8.8	23.5	141.5	0.0	0.0
64.00		23.5	132.1	0.0	8.8	23.5	140.9	0.0	0.0
65.00		23.5	131.5	0.0	8.8	23.5	140.3	0.0	0.0
66.00		23.5	130.9	0.0	8.8	23.5	139.7	0.0	0.0
67.00		23.4	130.3	0.0	8.8	23.4	139.1	0.0	0.0
68.00		23.4	129.7	0.0	8.8	23.4	138.5	0.0	0.0
69.00		23.4	129.1	0.0	8.8	23.4	137.9	0.0	0.0
70.00		23.4	128.5	0.0	8.8	23.4	137.3	0.0	0.0
71.00		23.4	127.9	0.0	8.8	23.4	136.7	0.0	0.0
72.00		23.4	127.3	0.0	8.8	23.4	136.1	0.0	0.0
73.00		23.4	126.7	0.0	8.8	23.4	135.5	0.0	0.0
74.00		23.4	126.1	0.0	8.8	23.4	134.9	0.0	0.0
75.00		23.3	125.6	0.0	8.8	23.3	134.4	0.0	0.0
76.00		23.3	125.0	0.0	8.8	23.3	133.8	0.0	0.0
77.00		23.3	124.4	0.0	8.8	23.3	133.2	0.0	0.0
78.00		23.3	123.8	0.0	8.8	23.3	132.6	0.0	0.0
79.00		23.2	123.2	0.0	8.8	23.2	132.0	0.0	0.0
80.00		23.2	122.6	0.0	8.8	23.2	131.4	0.0	0.0
81.00		23.2	122.0	0.0	8.8	23.2	130.8	0.0	0.0
82.00		23.2	121.4	0.0	8.8	23.2	130.2	0.0	0.0
83.00		23.1	120.8	0.0	8.8	23.1	129.6	0.0	0.0
84.00		23.1	120.2	0.0	8.8	23.1	129.0	0.0	0.0
85.00		20.2	119.6	0.0	8.8	20.2	128.4	0.0	0.0
85.75	Top - Section 2	11.5	89.3	0.0	6.6	11.5	95.9	0.0	0.0
86.00		14.4	19.9	0.0	2.2	14.4	22.1	0.0	0.0
87.00		23.0	79.3	0.0	8.8	23.0	88.1	0.0	0.0
88.00		22.9	78.9	0.0	8.8	23.0	87.7	0.0	0.0
89.00		22.9	78.5	0.0	8.8	22.9	87.3	0.0	0.0
90.00		22.9	78.5	0.0	o.o 8.8	22.9	86.9	0.0	0.0
91.00		22.8	77.7	0.0	8.8	22.9	86.5	0.0	0.0
92.00		22.8	77.3	0.0	8.8	22.8	86.1	0.0	0.0
93.00		22.8	76.9	0.0	6.6 8.8	22.8	85.7	0.0	0.0
94.00		22.7	76.5	0.0	8.8	22.7	85.3	0.0	0.0
94.00 95.00		22.6	76.5	0.0	8.8 8.8	22.7	85.3 84.9	0.0	0.0
95.00 96.00		22.6	76.1	0.0	8.8 8.8	22.6 22.6	84.9 84.5	0.0	0.0
96.00 97.00		22.6 22.5	75.7 75.3	0.0	8.8 8.8	22.6 22.5	84.5 84.1	0.0	0.0
97.00 98.00		22.5 22.5	75.3 74.9	0.0 0.0	8.8 8.8	22.5 22.5	84.1 83.7	0.0 0.0	0.0
98.00 99.00		22.5 22.4	74.9 74.5	0.0 0.0		22.5 22.4	83.7 83.3	0.0 0.0	0.0 0.0
99.00 100.00					8.8 8.8				0.0 0.0
		22.4	74.1	0.0	8.8	22.4	82.9	0.0	
101.00		22.3	73.8	0.0	8.8	22.3	82.6	0.0	0.0

Site Number: 30	02496
-----------------	-------

Site Name: Clch - Colchester, CT

Code: ANSI/TIA-222-G Engineering Number: OAA735982_C3_01 © 2007 - 2018 by ATC IP LLC. All rights reserved. 7/2/2018 6:10:52 PM

-

Load Case: 1.00 Serviceability 60 mph 42 Iterations Gust Response Factor 1.00 Wind Load Factor 1.00 Vind Importance Factor 1.00 Vind Importance Factor 1.00 102.00 22.3 73.0 0.0 8.8 22.1 81.6 0.0 0.0 8.8 22.1 81.6 0.0 0.0 104.00 22.1 72.6 0.0 8.8 22.1 81.6 0.0 0.0 106.00 22.0 71.4 0.0 8.8 22.1 81.6 0.0 0.0 106.00 21.8 7.1 0.0 8.8 22.1 78.6 0.0 0.0 106.00 21.8 71.0 0.0 8.8 21.8 78.0 0.0 0.0 11.00 21.8 70.2 0.0 8.8 21.6 77.8 0.0 0.0 11.200 21.4 69.4 0.0 8.8 21.4 77.6 0.0 0.0 11.200 21.4 67.4 0.0 8.8			·							
Dead Load Factor : 1.00 Wind Load Factor : 1.00 102.00 22.3 73.4 0.0 8.8 22.3 82.2 0.0 0.0 103.00 22.2 73.0 0.0 8.8 22.1 81.0 0.0 0.0 104.00 22.1 72.2 0.0 6.8 22.1 81.0 0.0 0.0 106.00 22.0 71.4 0.0 8.8 22.0 80.0 0.0 0.0 108.00 21.8 70.6 0.0 8.8 21.8 79.6 0.0 0.0 110.00 21.8 70.6 0.0 8.8 21.8 79.6 0.0 0.0 112.00 21.6 66.6 0.0 6.8 21.7 77.6 0.0 0.0 115.00 21.4 67.8 0.0 6.8 21.4 77.6 0.0 0.0 116.00 21.4 67.8 0.0 6.8 21.4 77.6 0.0 0.0	Load Case: 1.0D + 1.0W			Serviceability 60 mph					42 Itera	itions
Dead Load Factor : 1.00 Wind Load Factor : 1.00 102.00 22.3 73.4 0.0 8.8 22.3 82.2 0.0 0.0 103.00 22.2 73.0 0.0 8.8 22.1 81.0 0.0 0.0 104.00 22.1 72.2 0.0 6.8 22.1 81.0 0.0 0.0 106.00 22.0 71.4 0.0 8.8 22.0 80.0 0.0 0.0 108.00 21.8 70.6 0.0 8.8 21.8 79.6 0.0 0.0 110.00 21.8 70.6 0.0 8.8 21.8 79.6 0.0 0.0 112.00 21.6 66.6 0.0 6.8 21.7 77.6 0.0 0.0 115.00 21.4 67.8 0.0 6.8 21.4 77.6 0.0 0.0 116.00 21.4 67.8 0.0 6.8 21.4 77.6 0.0 0.0	Gust Response Factor 1.10						Wind In	nportanc	e Factor	1.00
$\begin{array}{c c c c c c c c c c c c c c c c c c c $										
103.00 22.2 73.0 0.0 8.8 22.2 81.8 0.0 0.0 105.00 22.1 72.6 0.0 8.8 22.1 81.0 0.0 0.0 105.00 22.0 71.8 0.0 8.8 22.0 80.6 0.0 107.00 22.0 71.4 0.0 8.8 22.0 80.2 0.0 0.0 108.00 21.8 70.0 0.0 8.8 21.8 7.8 0.0 0.0 108.00 21.8 70.2 0.0 8.8 21.6 7.8 0.0 0.0 112.00 21.6 66.4 0.0 8.8 21.6 7.7.8 0.0 0.0 114.00 21.4 67.4 0.0 8.8 21.4 7.6.2 0.0 0.0 115.00 21.4 67.4 0.0 8.8 21.4 7.6.4 0.0 0.0 116.00 21.4 67.6 0.0 8.8 21.1 7.6.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 </td <td>Wind Load Factor :1.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Wind Load Factor :1.00									
103.00 22.2 73.0 0.0 8.8 22.2 81.8 0.0 0.0 104.00 22.1 72.6 0.0 8.8 22.1 81.4 0.0 0.0 105.00 22.0 71.8 0.0 8.8 22.0 80.2 0.0 0.0 107.00 22.0 71.4 0.0 8.8 22.0 80.2 0.0 0.0 106.00 21.8 71.6 0.0 8.8 21.8 78.4 0.0 0.0 110.00 21.8 71.6 66.4 0.0 8.8 21.6 78.4 0.0 0.0 112.00 21.6 66.0 0.0 8.8 21.6 77.8 0.0 0.0 114.00 21.5 66.2 0.0 8.8 21.4 7.6 0.0 0.0 115.00 21.4 67.4 0.0 8.8 21.4 7.6 0.0 0.0 116.00 21.4 67.4 0.0 8.8 21.4 7.6 0.0 0.0 116.00 21.4 </td <td></td>										
105.00 22.1 71.2 0.0 8.8 22.1 81.0 0.0 0.0 107.00 22.0 71.4 0.0 8.8 22.0 80.6 0.0 0.0 109.00 21.8 70.6 0.0 8.8 21.8 78.4 0.0 0.0 110.00 21.8 70.6 0.0 8.8 21.8 78.4 0.0 0.0 111.00 21.7 69.3 0.0 8.8 21.7 78.6 0.0 0.0 113.00 21.6 69.4 0.0 8.8 21.4 77.6 0.0 0.0 115.00 21.4 67.6 0.0 8.8 21.4 77.6 0.0 0.0 115.00 21.4 67.6 0.0 8.8 21.4 77.6 0.0 0.0 118.00 21.2 67.0 0.0 8.8 21.1 75.4 0.0 0.0 118.00 21.1 66.6 0.0 8.8 21.1 75.4 0.0 0.0 12.0.0 65.6 0.0	103.00	22.2	73.0		0.0	8.8	22.2	81.8		
106.0022.071.80.08.822.080.60.00.0107.0021.971.00.08.821.978.80.00.0109.0021.870.60.08.821.878.40.00.0110.0021.870.60.08.821.878.40.00.0111.0021.669.40.08.821.678.20.00.0113.0021.669.40.08.821.677.80.00.0114.0021.568.60.08.821.477.40.00.0115.0021.467.80.08.821.477.60.00.0116.0021.467.80.08.821.477.00.00.0117.0021.367.40.08.821.175.80.00.0118.0021.166.60.08.821.175.80.00.0123.0021.166.60.08.821.175.80.00.0124.0020.965.40.08.820.873.80.00.0125.50Top-Section 31.557.60.08.820.873.40.00.0125.00Top-Section 31.553.90.08.820.463.70.00.0125.00Top-Section 31.553.90.08.820.463.70.00.0<										
107.0022.071.40.08.822.080.20.00.0108.0021.870.60.08.821.879.40.00.0110.0021.870.20.08.821.879.40.00.0111.0021.769.80.08.821.677.80.00.0113.0021.669.40.08.821.677.80.00.0114.0021.468.20.08.821.477.00.00.0115.0021.467.80.08.821.477.00.00.0116.0021.467.80.08.821.477.60.00.0117.0021.367.40.08.821.175.40.00.0118.0021.166.20.08.821.175.40.00.012.0020.965.40.08.821.175.40.00.012.20020.965.40.08.820.873.40.00.012.40020.864.60.08.820.873.40.00.012.50075.564.30.08.820.463.70.00.012.80020.455.30.08.820.463.70.00.012.80020.455.50.08.820.463.70.00.012.80020.455.30.0 <td></td>										
109.00 21.8 70.6 0.0 8.8 21.8 79.4 0.0 0.0 1110.00 21.7 65.8 0.0 8.8 21.7 78.6 0.0 0.0 113.00 21.6 69.4 0.0 8.8 21.6 78.2 0.0 0.0 113.00 21.6 69.4 0.0 8.8 21.6 77.8 0.0 0.0 115.00 21.4 68.2 0.0 8.8 21.4 77.6 0.0 0.0 116.00 21.4 67.8 0.0 8.8 21.4 76.6 0.0 0.0 117.00 21.3 67.4 0.0 8.8 21.3 75.4 0.0 0.0 118.00 21.1 66.2 0.0 8.8 21.1 75.4 0.0 0.0 122.00 20.9 65.4 0.0 8.8 21.0 74.6 0.0 0.0 122.00 20.8 66.6 0.0 <t< td=""><td>107.00</td><td>22.0</td><td>71.4</td><td></td><td>0.0</td><td>8.8</td><td>22.0</td><td>80.2</td><td>0.0</td><td>0.0</td></t<>	107.00	22.0	71.4		0.0	8.8	22.0	80.2	0.0	0.0
110.00 21.8 70.2 0.0 8.8 21.8 79.0 0.0 0.0 112.00 21.6 69.4 0.0 8.8 21.6 78.2 0.0 0.0 113.00 21.6 69.4 0.0 8.8 21.6 78.2 0.0 0.0 114.00 21.5 68.6 0.0 8.8 21.5 77.4 0.0 0.0 115.00 21.4 67.6 0.0 8.8 21.4 77.6 0.0 0.0 117.00 21.3 67.4 0.0 8.8 21.4 77.6 0.0 0.0 118.00 21.1 76.6 0.0 8.8 21.1 75.4 0.0 0.0 120.00 21.1 66.6 0.0 8.8 21.1 75.4 0.0 0.0 123.00 20.8 65.0 0.0 8.8 20.9 74.2 0.0 0.0 123.00 20.8 65.6 0.0 8.8 20.8 73.8 0.0 0.0 123.00 20.4 64.										
111.00 217 65.8 0.0 8.8 217. 78.6 0.0 0.0 113.00 21.6 65.9 0.0 0.0 8.8 21.6 78.2 0.0 0.0 114.00 21.6 65.0 0.0 8.8 21.6 78.2 0.0 0.0 115.00 21.4 65.2 0.0 8.8 21.4 76.6 0.0 0.0 115.00 21.4 67.8 0.0 8.8 21.4 76.6 0.0 0.0 115.00 21.3 67.7 0.0 0.0 0.0 8.8 21.3 76.2 0.0 0.0 118.00 21.1 76.6 0.0										
112.0021.669.40.08.821.67.8.20.00.0113.0021.669.00.08.821.67.7.80.00.0114.0021.568.60.08.821.47.7.80.00.0116.0021.467.80.08.821.47.6.60.00.0117.0021.367.40.08.821.47.6.60.00.0118.0021.267.00.08.821.17.5.40.00.0120.0021.166.60.08.821.17.5.40.00.0121.0020.065.40.08.821.07.4.60.00.0122.0020.865.00.08.820.87.3.40.00.0123.0020.864.60.08.820.87.3.40.00.0125.50Top - Section 315.564.30.08.820.463.70.00.0125.0020.455.30.08.820.463.40.00.00.0128.0020.455.30.08.820.463.70.00.0128.0020.455.30.08.820.463.70.00.0128.0020.455.30.08.820.463.70.00.0128.0020.455.30.08.820.463.70.00.0	111.00								0.0	
114.00 21.5 68.6 0.0 8.8 21.5 7.7.4 0.0 0.0 115.00 21.4 67.8 0.0 8.8 21.4 7.62 0.0 0.0 116.00 21.3 67.4 0.0 8.8 21.4 7.62 0.0 0.0 118.00 21.2 67.0 0.0 8.8 21.1 75.6 0.0 0.0 120.00 21.1 66.6 0.0 8.8 21.1 75.0 0.0 0.0 122.00 21.0 65.4 0.0 8.8 21.1 7.6 0.0 0.0 122.00 20.9 65.4 0.0 8.8 21.8 7.3.8 0.0 0.0 124.00 20.8 65.0 0.0 8.8 20.8 7.3.8 0.0 0.0 125.00 10.3 32.0 0.0 4.4 10.3 3.6.4 0.0 0.0 126.00 20.4 55.3 0.0 8.8 20.4 6.4.1 0.0 0.0 127.00 20.5 <td< td=""><td>112.00</td><td>21.6</td><td>69.4</td><td></td><td>0.0</td><td>8.8</td><td>21.6</td><td>78.2</td><td>0.0</td><td>0.0</td></td<>	112.00	21.6	69.4		0.0	8.8	21.6	78.2	0.0	0.0
115.0021.466.20.08.821.477.00.00.0116.0021.367.40.08.821.376.20.00.0118.0021.367.40.08.821.275.80.00.0118.0021.166.60.08.821.175.40.00.0120.0021.166.20.08.821.175.00.00.0121.0021.065.40.08.821.174.60.00.0122.0020.864.60.08.820.974.20.00.0124.0020.864.60.08.820.873.40.00.0125.0015.564.30.08.820.573.40.00.0125.0015.427.90.04.410.336.40.00.0127.0020.555.60.08.820.564.40.00.0128.0020.454.90.08.820.463.70.00.0128.0020.455.30.08.820.463.70.00.0128.0020.454.90.08.820.463.70.00.0128.0020.454.90.08.820.463.70.00.0128.0020.454.90.08.820.463.70.00.0128.0020.053.50.0 </td <td></td>										
116.0021.4 67.8 0.0 8.8 21.4 76.6 0.0 0.0 117.0021.3 67.4 0.0 8.8 21.2 75.8 0.0 0.0 118.0021.1 66.6 0.0 8.8 21.1 75.0 0.0 0.0 120.0021.1 66.2 0.0 8.8 21.1 75.0 0.0 0.0 122.0020.9 65.4 0.0 8.8 21.1 75.0 0.0 0.0 123.0020.8 66.0 0.0 8.8 20.9 74.8 0.0 0.0 124.0020.8 64.6 0.0 8.8 20.8 73.8 0.0 0.0 125.0020.8 64.6 0.0 8.8 20.8 73.4 0.0 0.0 125.0015.5 64.3 0.0 8.8 20.8 73.4 0.0 0.0 126.0015.427.90.0 4.4 15.4 32.3 0.0 0.0 127.0020.4 55.3 0.0 8.8 20.4 64.1 0.0 0.0 128.0020.4 54.3 0.0 0.8 20.4 64.1 0.0 0.0 128.0020.4 54.3 0.0 0.8 20.4 64.1 0.0 0.0 128.0020.4 54.3 0.0 0.6 8.2 0.6 0.0 0.0 128.0020.4 54.3 0.0 0.6 8.2 0.6 0.0 0.0 <tr< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr<>										
117.0021.367.40.08.821.376.20.00.0118.0021.267.00.00.08.821.175.80.00.0120.0021.166.60.08.821.175.40.00.0121.0021.065.80.08.821.174.40.00.0122.0020.965.40.08.821.074.60.00.0123.0020.864.60.08.820.873.40.00.0124.0020.864.50.08.820.873.40.00.0125.0015.564.30.08.820.873.40.00.0126.0015.427.90.04.410.336.40.00.0127.0020.555.60.08.820.463.70.00.0128.0020.453.90.08.820.463.70.00.0129.0020.453.50.08.820.463.70.00.0130.0020.254.20.08.820.463.70.00.0134.0019.953.20.08.819.760.90.00.0134.0019.852.80.08.819.460.90.00.0134.0019.651.80.08.819.760.90.00.0134.0019.852.8 </td <td>116.00</td> <td>21.4</td> <td>67.8</td> <td></td> <td>0.0</td> <td>8.8</td> <td>21.4</td> <td>76.6</td> <td>0.0</td> <td>0.0</td>	116.00	21.4	67.8		0.0	8.8	21.4	76.6	0.0	0.0
	117.00	21.3	67.4		0.0	8.8	21.3	76.2		
$\begin{array}{c c c c c c c c c c c c c c c c c c c $										
$\begin{array}{cccccccccccccccccccccccccccccccccccc$										
123.00 20.8 65.0 0.0 8.8 20.8 73.4 0.0 0.0 124.00 15.5 64.3 0.0 8.8 20.8 73.4 0.0 0.0 125.00 15.5 64.3 0.0 8.8 15.5 73.1 0.0 0.0 125.00 15.4 27.9 0.0 4.4 15.3 36.4 0.0 0.0 127.00 20.5 55.5 0.0 8.8 20.4 63.7 0.0 0.0 128.00 20.4 55.3 0.0 8.8 20.4 63.7 0.0 0.0 130.00 20.2 54.2 0.0 8.8 20.3 63.4 0.0 0.0 133.00 20.1 53.5 0.0 8.8 20.3 63.4 0.0 0.0 134.00 19.9 53.2 0.0 8.8 19.8 61.6 0.0 0.0 135.00 19.8 52.5 0.0 8.8 19.8 61.6 0.0 0.0 136.00 19.4 51.	121.00	21.0	65.8		0.0	8.8	21.0	74.6	0.0	0.0
$\begin{array}{c c c c c c c c c c c c c c c c c c c $			65.4							
125.50Top - Section 310.3 32.0 0.04.410.3 36.4 0.00.0126.0015.427.90.04.415.4 32.3 0.00.0127.0020.555.60.08.820.564.40.00.0128.0020.455.30.08.820.464.10.00.0129.0020.454.90.08.820.463.70.00.0130.0020.354.60.08.820.363.40.00.0132.0020.153.90.08.820.162.30.00.0133.0020.053.50.08.819.962.00.00.0135.0019.852.80.08.819.861.60.00.0136.0019.852.70.08.819.861.30.00.0137.0019.752.10.08.819.660.60.00.0138.0019.651.80.08.819.459.90.00.0134.0019.451.10.08.819.459.90.00.0144.0019.451.10.08.819.459.90.00.0144.0019.451.10.08.819.158.90.00.0144.0019.450.10.08.819.158.90.00.0144.00										
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	125.50 Top - Section 3	10.3	32.0		0.0	4.4	10.3	36.4	0.0	0.0
128.0020.455.30.08.820.464.10.00.0129.0020.454.90.08.820.463.70.00.0130.0020.254.60.08.820.363.40.00.0131.0020.254.20.08.820.263.00.00.0132.0020.153.90.08.820.062.30.00.0134.0019.953.50.08.819.962.00.00.0135.0019.852.50.08.819.861.60.00.0136.0019.651.80.08.819.760.90.00.0138.0019.551.40.08.819.560.20.00.0141.0019.350.80.08.819.560.20.00.0142.0019.250.40.08.819.158.90.00.0143.0019.150.10.08.819.259.20.00.0144.0019.049.70.08.819.558.20.00.0144.0018.748.70.08.818.958.20.00.0144.0018.748.70.08.818.757.10.00.0144.0018.748.70.08.818.757.10.00.0145.0018.748.70.0<										
$\begin{array}{cccccccccccccccccccccccccccccccccccc$										
$\begin{array}{cccccccccccccccccccccccccccccccccccc$										
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	130.00	20.3	54.6		0.0	8.8	20.3	63.4	0.0	0.0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$										
$\begin{array}{cccccccccccccccccccccccccccccccccccc$										
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	134.00	19.9	53.2			8.8	19.9	62.0	0.0	0.0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	135.00	19.8	52.8		0.0	8.8	19.8	61.6		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$										
$\begin{array}{cccccccccccccccccccccccccccccccccccc$										
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	139.00								0.0	0.0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$										~ ~
143.00 19.1 50.1 0.0 8.8 19.1 58.9 0.0 0.0 144.00 19.0 49.7 0.0 8.8 19.0 58.5 0.0 0.0 145.00 18.9 49.4 0.0 8.8 18.9 58.2 0.0 0.0 146.00 18.8 49.0 0.0 8.8 18.9 58.2 0.0 0.0 146.00 18.7 48.7 0.0 8.8 18.7 57.5 0.0 0.0 147.00 18.7 48.3 0.0 8.8 18.7 57.5 0.0 0.0 148.00 18.6 48.0 0.0 8.8 18.7 57.1 0.0 0.0 149.00 18.6 48.0 0.0 8.8 18.7 57.1 0.0 0.0 149.00 18.6 48.0 0.0 8.8 18.5 56.4 0.0 0.0 150.00 18.5 47.6 0.0 8.8 18.5 56.4 0.0 0.0 152.00 18.3 46.9 0.0 8.8 18.3 55.7 0.0 0.0 153.00 18.2 46.6 0.0 8.8 18.2 55.4 0.0 0.0 154.00 18.1 46.2 0.0 8.8 18.1 55.0 0.0 0.0 155.00 18.0 45.9 0.0 8.8 18.0 54.7 0.0 0.0 156.00 17.9 45.6 <td></td>										
$\begin{array}{cccccccccccccccccccccccccccccccccccc$										
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	144.00	19.0	49.7		0.0	8.8	19.0	58.5	0.0	0.0
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$										
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$										
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$										0.0
151.0018.447.30.08.818.456.10.00.0152.0018.346.90.08.818.355.70.00.0153.0018.246.60.08.818.255.40.00.0154.0018.146.20.08.818.155.00.00.0155.0018.045.90.08.818.054.70.00.0156.0017.945.60.08.817.954.40.00.0	149.00	18.6	48.0		0.0	8.8	18.6	56.8	0.0	0.0
152.0018.346.90.08.818.355.70.00.0153.0018.246.60.08.818.255.40.00.0154.0018.146.20.08.818.155.00.00.0155.0018.045.90.08.818.054.70.00.0156.0017.945.60.08.817.954.40.00.0										
153.0018.246.60.08.818.255.40.00.0154.0018.146.20.08.818.155.00.00.0155.0018.045.90.08.818.054.70.00.0156.0017.945.60.08.817.954.40.00.0										
154.0018.146.20.08.818.155.00.00.0155.0018.045.90.08.818.054.70.00.0156.0017.945.60.08.817.954.40.00.0										0.0
156.00 17.9 45.6 0.0 8.8 17.9 54.4 0.0 0.0	154.00	18.1	46.2		0.0	8.8	18.1	55.0	0.0	0.0
	107.00	17.0	43.2		0.0	0.0	17.0	54.0	0.0	0.0

174.00

175.00

176.00

177.00

178.00

179.00

180.00

180.58

Appurtenance(s)

Site Name: Clch - Colchester, CT

AT&T MORILITY Cust

15.9

15.8

15.7

15.6

15.5

15.3

12.1

4.4

39.3

39.0

38.6

38.3

37.9

37.6

37.2

21.6

901.8

Code: ANSI/TIA-222-G Engineering Number: OAA735982_C3_01

© 2007 - 2018 by ATC IP LLC. All rights reserved. 7/2/2018 6:10:52 PM

0.0

0.0

0.0

0.0

0.0

0.0

0.0

0.0 0.00

0.0

0.0

0.0

0.0

0.0

0.0

0.0

0.0

0.00

Customer: AT&									_
Load Case: 1.0)D + 1.0W		Serviceability 60 mph					42 Itera	ations
Gust Response F Dead Load F Wind Load F	actor : 1.00	Wind Importance Factor 1.0						1.00	
158.00	17.7	44.9		0.0	8.8	17.7	53.7	0.0	0.0
159.00	17.5	44.5		0.0	8.8	17.5	53.3	0.0	0.0
160.00	17.4	44.2		0.0	8.8	17.4	53.0	0.0	0.0
161.00	17.3	43.8		0.0	8.8	17.3	52.6	0.0	0.0
162.00	17.2	43.5		0.0	8.8	17.2	52.3	0.0	0.0
163.00	17.1	43.1		0.0	8.8	17.1	51.9	0.0	0.0
164.00	17.0	42.8		0.0	8.8	17.0	51.6	0.0	0.0
165.00	16.9	42.4		0.0	8.8	16.9	51.2	0.0	0.0
166.00	16.8	42.1		0.0	8.8	16.8	50.9	0.0	0.0
167.00	16.7	41.7		0.0	8.8	16.7	50.5	0.0	0.0
168.00	16.6	41.4		0.0	8.8	16.6	50.2	0.0	0.0
169.00	16.5	41 .1		0.0	8.8	16.5	49.9	0.0	0.0
170.00	16.4	40.7		0.0	8.8	16.4	49.5	0.0	0.0
171.00	16.3	40.4		0.0	8.8	16.3	49.2	0.0	0.0
172.00	16.1	40.0		0.0	8.8	16.1	48.8	0.0	0.0
173.00	16.0	39.7		0.0	8.8	16.0	48.5	0.0	0.0
474.00	45.0				~ ~			~ ~	~ ~

0.0 2,977.8 3,144.3

0.0

0.0

0.0

0.0

0.0

0.0

0.0

0.0

Totals:

8.8

8.8

8.8

8.8

8.8

8.8

8.8

0.0

15.9

15.8

15.7

15.6

15.5

15.3

913.9

4.4

4,747.4523,666.35

48.1

47.8

47.4

47.1

46.7

46.4

21.6

3,190.3

Site Name: Clch - Colchester, CT

Customer: AT&T MOBILITY

Code: ANSI/TIA-222-G Engineering Number: OAA735982_C3_01

© 2007 - 2018 by ATC IP LLC. All rights reserved. 7/2/2018 6:10:52 PM

Load Case: 1.0D + 1.0W

Serviceability 60 mph

Wind Importance Factor 1.00

42 Iterations

-

Gust Response Factor 1.10

Dead Load Factor : 1.00

Wind Load Factor :1.00

Calculated Forces

		Seg Elev	Pu FY (-)	Vu FX (-)	Tu MY	Mu MZ	Mu MX	Resultant Moment	phi Pn	phi Vn	phi Tn	phi Mn	Total Deflect	Rotation	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	_	(ft)	(kips)	(kips)	(ft-kips)	(ft-kips)	(ft-kips)	(ft-kips)	(kips) (kips)	(ft-kips)	(ft-kips)	(in)	(deg)	Ratio
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		0.00	-23.67	-4.74	0.00	-522.25	0.00	522.25	4,173.8	8 2,086.94	7,090.68	3,501.82	0.00	0.00	0.155
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$									4,164.3	0 2,082.15	7,049.35	3,481.41			
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$															
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$															
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$									•	-		-			
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$															
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$												-			
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$															
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$															
$ \begin{array}{ccccccccccccccccccccccccccccccccccc$															
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$									4,046.4	9 2,023.25	6,557.96	3,238.73			
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$									•	•	-	•			
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$															
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$										-		-			
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$															
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$															
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$															
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$															
$\begin{array}{cccccccccccccccccccccccccccccccccccc$									-	-	•	-			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$															
$\begin{array}{cccccccccccccccccccccccccccccccccccc$															
$\begin{array}{cccccccccccccccccccccccccccccccccccc$															
$\begin{array}{cccccccccccccccccccccccccccccccccccc$															
$\begin{array}{cccccccccccccccccccccccccccccccccccc$											-				
$\begin{array}{cccccccccccccccccccccccccccccccccccc$															
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		31.00	-17.57	-4.14	0.00	-384.40	0.00							-0.37	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$															
$\begin{array}{cccccccccccccccccccccccccccccccccccc$															
$\begin{array}{cccccccccccccccccccccccccccccccccccc$															
$\begin{array}{cccccccccccccccccccccccccccccccccccc$															
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			-			-359.86	0.00						1.71	-0.44	0.137
40.00 -15.92 -3.96 0.00 -347.87 0.00 347.87 3,684.33 1,842.17 5,372.89 2,653.47 2.00 -0.48 0.135 41.00 -15.74 -3.94 0.00 -343.91 0.00 343.91 3,669.33 1,834.66 5,328.94 2,631.76 2.10 -0.49 0.135 42.00 -15.57 -3.92 0.00 -339.97 0.00 339.97 3,654.32 1,827.16 5,285.17 2,610.15 2.20 -0.50 0.135 43.00 -15.39 -3.89 0.00 -336.06 0.00 336.06 3,639.31 1,819.66 5,241.59 2,588.62 2.31 -0.52 0.134 44.00 -15.21 -3.88 0.00 -329.25 0.00 329.25 3,613.05 1,806.52 5,165.74 2,551.17 2.50 -0.54 0.133 44.75 -15.08 -3.86 0.00 -329.25 0.00 329.25 3,037.33 1,518.66 4,358.22 2,152.36 2.50 -0.54 0.133 45.00 -15.04 -3.85									-	-	-				
41.00 -15.74 -3.94 0.00 -343.91 0.00 343.91 3,669.33 1,834.66 5,328.94 2,631.76 2,10 -0.49 0.135 42.00 -15.57 -3.92 0.00 -339.97 0.00 339.97 3,654.32 1,827.16 5,285.17 2,610.15 2.20 -0.50 0.135 43.00 -15.39 -3.89 0.00 -336.06 0.00 336.06 3,639.31 1,819.66 5,241.59 2,588.62 2.31 -0.52 0.134 44.00 -15.21 -3.88 0.00 -332.16 0.00 322.16 3,624.30 1,812.15 5,198.18 2,567.18 2.42 -0.53 0.134 44.75 -15.08 -3.86 0.00 -329.25 0.00 329.25 3,613.05 1,806.52 5,165.74 2,551.17 2.50 -0.54 0.133 44.75 -15.08 -3.86 0.00 -329.25 0.00 329.25 3,037.33 1,518.66 4,358.22 2,152.36 2.50 -0.54 0.138 45.00 -15.04 -3.85									•		•	•			
42.00 -15.57 -3.92 0.00 -339.97 0.00 339.97 3,654.32 1,827.16 5,285.17 2,610.15 2.20 -0.50 0.135 43.00 -15.39 -3.89 0.00 -336.06 0.00 336.06 3,639.31 1,819.66 5,241.59 2,588.62 2.31 -0.52 0.134 44.00 -15.21 -3.88 0.00 -332.16 0.00 332.16 3,624.30 1,812.15 5,198.18 2,567.18 2.42 -0.53 0.134 44.75 -15.08 -3.86 0.00 -329.25 0.00 329.25 3,613.05 1,806.52 5,165.74 2,551.17 2.50 -0.54 0.133 44.75 -15.08 -3.86 0.00 -329.25 0.00 329.25 3,037.33 1,518.66 4,358.22 2,152.36 2.50 -0.54 0.138 45.00 -15.04 -3.85 0.00 -328.29 0.00 328.29 3,035.24 1,517.62 4,350.67 2,148.63 2.53 -0.54 0.158 46.00 -14.89 -3.83															
43.00 -15.39 -3.89 0.00 -336.06 0.00 336.06 3,639.31 1,819.66 5,241.59 2,588.62 2.31 -0.52 0.134 44.00 -15.21 -3.88 0.00 -332.16 0.00 332.16 3,624.30 1,812.15 5,198.18 2,567.18 2.42 -0.53 0.134 44.75 -15.08 -3.86 0.00 -329.25 0.00 329.25 3,613.05 1,806.52 5,165.74 2,551.17 2.50 -0.54 0.133 44.75 -15.08 -3.86 0.00 -329.25 0.00 329.25 3,037.33 1,518.66 4,358.22 2,152.36 2.50 -0.54 0.133 45.00 -15.04 -3.85 0.00 -328.29 0.00 328.29 3,035.24 1,517.62 4,350.67 2,148.63 2.53 -0.54 0.158 46.00 -14.89 -3.83 0.00 -320.61 0.00 320.61 3,018.50 1,509.25 4,290.37 2,118.85 2.77 -0.57 0.156 47.00 -14.74 -3.81															
44.00 -15.21 -3.88 0.00 -332.16 0.00 332.16 3,624.30 1,812.15 5,198.18 2,567.18 2.42 -0.53 0.134 44.75 -15.08 -3.86 0.00 -329.25 0.00 329.25 3,613.05 1,806.52 5,165.74 2,551.17 2.50 -0.54 0.133 44.75 -15.08 -3.86 0.00 -329.25 0.00 329.25 3,037.33 1,518.66 4,358.22 2,152.36 2.50 -0.54 0.133 45.00 -15.04 -3.85 0.00 -328.29 0.00 328.29 3,035.24 1,517.62 4,350.67 2,148.63 2.53 -0.54 0.158 46.00 -14.89 -3.83 0.00 -320.61 0.00 320.61 3,018.50 1,509.25 4,290.37 2,118.85 2.77 -0.57 0.156 47.00 -14.74 -3.81 0.00 -320.61 0.00 320.61 3,018.50 1,509.25 4,290.37 2,118.85 2.77 -0.57 0.156															
44.75 -15.08 -3.86 0.00 -329.25 0.00 329.25 3,037.33 1,518.66 4,358.22 2,152.36 2.50 -0.54 0.158 45.00 -15.04 -3.85 0.00 -328.29 0.00 328.29 3,035.24 1,517.62 4,350.67 2,148.63 2.53 -0.54 0.158 46.00 -14.89 -3.83 0.00 -324.44 0.00 324.44 3,026.89 1,513.44 4,320.50 2,133.73 2.65 -0.56 0.157 47.00 -14.74 -3.81 0.00 -320.61 0.00 320.61 3,018.50 1,509.25 4,290.37 2,118.85 2.77 -0.57 0.156									3,624.3	0 1,812.15	5,198.18	2,567.18	2.42		
45.00 -15.04 -3.85 0.00 -328.29 0.00 328.29 3,035.24 1,517.62 4,350.67 2,148.63 2.53 -0.54 0.158 46.00 -14.89 -3.83 0.00 -324.44 0.00 324.44 3,026.89 1,513.44 4,320.50 2,133.73 2.65 -0.56 0.157 47.00 -14.74 -3.81 0.00 -320.61 0.00 320.61 3,018.50 1,509.25 4,290.37 2,118.85 2.77 -0.57 0.156															
46.00 -14.89 -3.83 0.00 -324.44 0.00 324.44 3,026.89 1,513.44 4,320.50 2,133.73 2.65 -0.56 0.157 47.00 -14.74 -3.81 0.00 -320.61 0.00 320.61 3,018.50 1,509.25 4,290.37 2,118.85 2.77 -0.57 0.156											-				
47.00 -14.74 -3.81 0.00 -320.61 0.00 320.61 3,018.50 1,509.25 4,290.37 2,118.85 2.77 -0.57 0.156															
48.00 -14.59 -3.79 0.00 -316.79 0.00 316.79 3,010.08 1,505.04 4,260.30 2,104.00 2.89 -0.58 0.155															
		48.00	-14.59	-3.79	0.00	-316.79	0.00	316.79	3,010.0	8 1,505.04	4,260.30	2,104.00	2.89	-0.58	0.155

Site Name: Clch - Colchester, CT

Code: ANSI/TIA-222-G Engineering Number: OAA735982_C3_01 © 2007 - 2018 by ATC IP LLC. All rights reserved. 7/2/2018 6:10:53 PM

Load Ca	ISE: 1.0D	+ 1.0W		·····	Serv	viceability	60 mph			42 Itera	tions
Gust Res	ponse Fa Load Fac							Wind Imp	oortance	Factor	.00
1	Load Fac										
		3.77 3.75	0.00 0.00	-313.01 -309.24	0.00	313.01 309.24	3,001.62 1,500.81 4,230.2 2,993.12 1,496.56 4,200.3		3.01 3.14	-0.60 -0.61	0.155 0.154
51.00 -1	14.14 -	-3.73 -3.70	0.00	-305.49	0.00	305.49	2,984.59 1,492.30 4,170.3	9 2,059.60	3.27	-0.63	0.153
53.00 -1	13.84 -	3.68	0.00 0.00	-301.76 -298.06	0.00 0.00	301.76 298.06	2,976.02 1,488.01 4,140.5 2,967.42 1,483.71 4,110.7	1 2,030.13	3.40 3.54	-0.64 -0.66	0.152 0.151
		·3.66 ·3.64	0.00 0.00	-294.38 -290.72	0.00 0.00	294.38 290.72	2,958.79 1,479.39 4,080.9 2,950.11 1,475.06 4,051.2		3.67 3.82	-0.67 -0.68	0.151 0.150
56.00 -1	13.40 ·	3.62 3.60	0.00	-287.08 -283.46	0.00 0.00	287.08 283.46	2,941.41 1,470.70 4,021.6 2,932.66 1,466.33 3,992.0	2 1,986.12	3.96 4.11	-0.70 -0.71	0.149
58.00 -1	13.11 -	3.57	0.00	-279.86	0.00	279.86	2,923.89 1,461.94 3,962.5	0 1,956.93	4.26	-0.73	0.148
60.00 -1	12.82 -	3.55 3.53	0.00 0.00	-276.29 -272.74	0.00 0.00	276.29 272.74	2,915.07 1,457.54 3,933.0 2,906.28 1,453.14 3,903.6	9 1,927.89	4.41 4.57	-0.74 -0.76	0.147 0.146
		·3.51 ·3.49	0.00 0.00	-269.21 -265.70	0.00 0.00	269.21 265.70	2,893.42 1,446.71 3,869.0 2,880.56 1,440.28 3,834.5		4.73 4.89	-0.77 -0.78	0.145 0.145
		·3.46 ·3.44	0.00 0.00	-262.21 -258.75	0.00 0.00	262.21 258.75	2,867.69 1,433.85 3,800.1 2,854.83 1,427.41 3,765.9	3 1,876.74	5.06 5.23	-0.80 -0.81	0.144 0.143
65.00 -1	12.11 ·	3.42 3.40	0.00	-255.31 -251.89	0.00 0.00	255.31 251.89	2,841.96 1,420.98 3,731.8	6 1,843.02	5.40 5.58	-0.83 -0.84	0.143
67.00 -1	11.83 -	3.37	0.00	-248.50	0.00	248.50	2,829.10 1,414.55 3,697.9 2,816.24 1,408.12 3,664.2	1 1,809.61	5.75	-0.86	0.142
		·3.35 ·3.33	0.00 0.00	-245.12 -241.77	0.00 0.00	245.12 241.77	2,803.37 1,401.69 3,630.6 2,790.51 1,395.25 3,597.1		5.93 6.12	-0.87 -0.89	0.141 0.140
		·3.31 ·3.28	0.00 0.00	-238.44 -235.14	0.00 0.00	238.44 235.14	2,777.64 1,388.82 3,563.8 2,764.78 1,382.39 3,530.7		6.31 6.50	-0.90 -0.91	0.140 0.139
72.00 -1	11.14 -	3.26 3.24	0.00	-231.86 -228.60	0.00 0.00	231.86 228.60	2,751.92 1,375.96 3,497.7	9 1,727.43	6.69 6.88	-0.93 -0.94	0.138
74.00 -1	10.87 ·	3.21	0.00	-225.36	0.00	225.36	2,739.05 1,369.53 3,464.9 2,726.19 1,363.09 3,432.3	0 1,695.08	7.08	-0.96	0.137
76.00 -1	10.60 -	3.19 3.17	0.00 0.00	-222.15 -218.95	0.00 0.00	222.15 218.95	2,713.32 1,356.66 3,399.7 2,700.46 1,350.23 3,367.4	4 1,663.05	7.29 7.49	-0.97 -0.99	0.136 0.136
		3.15 3.12	0.00 0.00	-215.79 -212.64	0.00 0.00	215.79 212.64	2,687.60 1,343.80 3,335.2 2,674.73 1,337.37 3,303.1		7.70 7.91	-1.00 -1.01	0.135 0.134
		3.10 3.08	0.00 0.00	-209.52 -206.42	0.00 0.00	209.52 206.42	2,661.87 1,330.93 3,271.3 2,649.00 1,324.50 3,239.5	0 1,615.57	8.12 8.34	-1.03 -1.04	0.134 0.133
81.00	-9.94 -	3.05	0.00	-203.34	0.00	203.34	2,636.14 1,318.07 3,207.9	8 1,584.30	8.56	-1.06	0.132
83.00	-9.68 -	·3.03 ·3.01	0.00 0.00	-200.29 -197.26	0.00 0.00	200.29 197.26	2,623.28 1,311.64 3,176.5 2,610.41 1,305.21 3,145.2	8 1,553.33	8.78 9.01	-1.07 -1.09	0.131 0.131
		·2.98 ·2.96	0.00 0.00	-194.25 -191.27	0.00 0.00	194.25 191.27	2,597.55 1,298.77 3,114.1 2,584.68 1,292.34 3,083.2		9.24 9.47	-1.10 -1.12	0.130
		2.95 2.95	0.00 0.00	-189.05 -189.05	0.00 0.00	189.05 189.05	2,575.04 1,287.52 3,060.0 1,544.73 772.37 1,851.6	•	9.65 9.65	-1.13 -1.13	0.129
86.00	-9.30 -	2.94	0.00 0.00	-188.31 -185.37	0.00 0.00	188.31 185.37	1,543.70 771.85 1,848.0 1,539.55 769.77 1,833.8	4 912.68	9.71 9.95	-1.13 -1.15	0.212
88.00	-9.13 -	2.90	0.00	-182.45	0.00	182.45	1,535.36 767.68 1,819.5	9 898.63	10.19	-1.17	0.209
90.00		·2.87 ·2.85	0.00 0.00	-179.56 -176.68	0.00 0.00	179.56 176.68	1,531.13 765.57 1,805.3 1,526.87 763.44 1,791.1		10.44 10.69	-1.19 -1.21	0.207 0.206
		2.83 2.81	0.00 0.00	-173.83 -171.00	0.00 0.00	173.83 171.00	1,522.58 761.29 1,776.9 1,518.25 759.12 1,762.7		10.95 11.21	-1.24 -1.26	0.204 0.202
93.00	-8.69 -	2.79 2.77	0.00 0.00	-168.19 -165.40	0.00 0.00	168.19 165.40	1,513.88 756.94 1,748.6 1,509.48 754.74 1,734.4	2 863.58	11.47 11.74	-1.28 -1.30	0.201 0.199
95.00	-8 .52 -	2.75	0.00	-162.63	0.00	162.63	1,505.04 752.52 1,720.3	1 849.60	12.02	-1.32	0.197
97.00	-8.35 -	2.72 2.70	0.00 0.00	-159.89 -157.16	0.00 0.00	159.89 157.16	1,500.57 750.29 1,706.1 1,496.06 748.03 1,692.0	6 835.64	12.29 12.58	-1.34 -1.36	0.195 0.194
		·2.68 ·2.66	0.00 0.00	-154.46 -151.78	0.00 0.00	154.46 151.78	1,491.52 745.76 1,677.9 1,486.94 743.47 1,663.8		12.86 13.16	-1.38 -1.40	0.192 0.190
100.00	-8.10 -	2.64 2.62	0.00	-149.12 -146.48	0.00 0.00	149.12 146.48	1,482.33 741.16 1,649.7 1,477.68 738.84 1,635.7	8 814.77	13.45 13.75	-1.42 -1.44	0.188
102.00	-7.93 -	2.60	0.00	-143.86	0.00	143.86	1,473.00 736.50 1,621.6	8 800.89	14.06	-1.47	0.185
103.00	-7.85 -	2.57	0.00	-141.27	0.00	141.27	1,468.28 734.14 1,607.6	6 793.96	14.37	-1.49	0.183

Site Name: Clch - Colchester, CT

Code: ANSI/TIA-222-G Engineering Number: OAA735982_C3_01

© 2007 - 2018 by ATC IP LLC. All rights reserved. 7/2/2018 6:10:53 PM

Load C	ase: 1.0)D + 1.0W			Ser	viceability (60 mph					42 Itera	tions
	•	Factor 1.								Wind Imp	ortance	Factor 1	.00
		actor : 1.0 actor : 1.0											
				120 70	0.00	100 70	1 402 52	701 70 1 50	2 65	707.04	14.68	-1.51	0.182
104.00 105.00	-7.77 -7.69	-2.55 -2.53	0.00 0.00	-138.70 -136.14	0.00 0.00	138.70 136.14	1,463.52 1,458.73	731.76 1,59 729.37 1,57		787.04 780.14	14.66	-1.53	0.182
106.00	-7.61	-2.51	0.00	-133.61 -131.10	0.00	133.61	1,453.91	726.95 1,56		773.24	15.32	-1.55 -1.57	0.178 0.176
107.00 108.00	-7.53 -7.45	-2.49 -2.47	0.00 0.00	-128.61	0.00 0.00	131.10 128.61	1,449.04 1,444.15	724.52 1,55 722.07 1,53		766.35 759.47	15.65 15.98	-1.59	0.175
109.00	-7.37	-2.45	0.00	-126.15	0.00	126.15	1,439.21	719.61 1,52	23.91	752.60	16.31	-1.61	0.173
110.00 111.00	-7.29 -7.21	-2.42 -2.40	0.00 0.00	-123.70 -121.28	0.00 0.00	123.70 121.28	1,434.25 1,429.24	717.12 1,51 714.62 1,49		745.75 738.90	16.65 17.00	-1.63 -1.65	0.171 0.169
112.00	-7.13	-2.38	0.00	-118.88	0.00	118.88	1,424.21	712.10 1,48	32.33	732.07	17.34	-1.67	0.167
113.00 114.00	-7.05 -6.97	-2.36 -2.34	0.00 0.00	-116.49 -114.13	0.00 0.00	116.49 114.13	1,419.13 1,414.02	709.57 1,46 707.01 1,45		725.24 718.43	17.70 18.05	-1.69 -1.71	0.166 0.164
115.00	-6.90	-2.34	0.00	-111.80	0.00	111.80	1,408.88	704.44 1,44		711.64	18.41	-1.73	0.162
116.00	-6.82	-2.30	0.00	-109.48	0.00	109.48	1,403.70	701.85 1,42		704.85	18.78	-1.75 -1.77	0.160 0.158
117.00 118.00	-6.74 -6.67	-2.27 -2.25	0.00 0.00	-107.18 -104.91	0.00 0.00	107.18 104.91	1,398.48 1,393.23	699.24 1,41 696.62 1,39		698.08 691.32	19.15 19.52	-1.79	0.158
119.00	-6.59	-2.23	0.00	-102.65	0.00	102.65	1,387.95	693.97 1,38	36.17	684.58	19.90	-1.81	0.155
120.00 121.00	-6.52 -6.44	-2.21 -2.19	0.00 0.00	-100.42 -98.21	0.00 0.00	100.42 98.21	1,382.63 1,377.27	691.31 1,37 688.64 1,35		677.85 671.13	20.28 20.66	-1.83 -1.85	0.153 0.151
122.00	-6.37	-2.17	0.00	-96.02	0.00	96.02	1,371.88	685.94 1,34	45.37	664.43	21.05	-1.87	0.149
123.00 124.00	-6.30 -6.22	-2.15 -2.13	0.00 0.00	-93.85 -91.70	0.00 0.00	93.85 91.70	1,366.45 1,360.99	683.23 1,33 680.49 1,31		657.74 651.07	21.45 21.84	-1.89 -1.91	0.147 0.145
125.00	-6.15	-2.13	0.00	-89.58	0.00	89.58	1,355.49	677.74 1,30		644.42	22.24	-1.93	0.144
125.50	-6.11	-2.10	0.00	-88.52	0.00	88.52	1,352.73	676.36 1,29		641.09	22.45	-1.94	0.143
125.50 126.00	-6.11 -6.08	-2.10 -2.08	0.00 0.00	-88.52 -87.47	0.00 0.00	88.52 87.47	1,127.00 1,124.94	563.50 1,08 562.47 1,07		535.55 532.90	22.45 22.65	-1.94 -1.95	0.171 0.170
127.00	-6.02	-2.06	0.00	-85.39	0.00	85.39	1,120.78	560.39 1,06	68.31	527.60	23.06	-1.97	0.167
128.00 129.00	-5.95 -5.89	-2.04 -2.02	0.00 0.00	-83.32 -81.28	0.00 0.00	83.32 81.28	1,116.59 1,112.36	558.29 1,05 556.18 1,04		522.31 517.03	23.48 23.89	-1.99 -2.01	0.165 0.163
130.00	-5.82	-2.00	0.00	-79.26	0.00	79.26	1,108.10	554.05 1,03	36.24	511.76	24.32	-2.03	0.160
131.00 132.00	-5.76 -5.70	-1.98 -1.96	0.00 0.00	-77.25 -75.27	0.00 0.00	77.25 75.27	1,103.80 1,099.47	551.90 1,02 549.73 1,02		506.50 501.24	24.75 25.18	-2.05 -2.08	0.158 0.155
133.00	-5.64	-1.94	0.00	-73.31	0.00	73.31	1,095.10	547.55 1,00	04.33	496.00	25.61	-2.10	0.153
134.00	-5.57	-1.92	0.00	-71.37	0.00	71.37	1,090.69		33.73	490.77 485.54	26.06 26.50	-2.12 -2.14	0.151 0.148
135.00 136.00	-5.51 -5.45	-1.90 -1.88	0.00 0.00	-69.44 -67.54	0.00 0.00	69.44 67.54	1,086.26 1,081.78		33.15 72.60	485.54 480.33	26.50	-2.14	0.146
137.00	-5.39	-1.86	0.00	-65.66	0.00	65.66	1,077.27		52.07	475.13	27.41	-2.18	0.143 0.141
138.00 139.00	-5.33 -5.27	-1.84 -1.82	0.00 0.00	-63.80 -61.96	0.00 0.00	63.80 61.96	1,072.73 1,068.14		51.56 41.07	469.94 464.76	27.86 28.33	-2.20 -2.22	0.141
140.00	-5.21	-1.80	0.00	-60.13	0.00	60.13	1,063.53	531.76 93	30.61	459.59	28.79	-2.24	0.136
141.00 142.00	-5.15 -5.09	-1.78 -1.76	0.00 0.00	-58.33 -56.55	0.00 0.00	58.33 56.55	1,058.88 1,054.19	529.44 92 527.09 90	20.17	454.44 449.30	29.26 29.74	-2.26 -2.28	0.133 0.131
143.00	-5.03	-1.74	0.00	-54.79	0.00	54.79	1,049.47	524.73 89	99.37	444.17	30.22	-2.30	0.128
144.00 145.00	-4.98 -4.92	-1.72 -1.70	0.00	-53.04	0.00	53.04	1,044.71 1,039.92	522.35 88	39.01 78.68	439.05 433.95	30.70 31.19	-2.31 -2.33	0.126 0.123
145.00	-4.92 -4.86	-1.68	0.00 0.00	-51.32 -49.62	0.00 0.00	51.32 49.62	1,035.09	517.54 86	68.38	433.95 428.86	31.68	-2.35	0.120
147.00	-4.80	-1.66	0.00	-47.93	0.00	47.93	1,030.22	515.11 85	58.10	423.79	32.17	-2.37	0.118
148.00 149.00	-4.75 -4.69	-1.64 -1.63	0.00 0.00	-46.27 -44.63	0.00 0.00	46.27 44.63	1,025.32 1,020.39		47.86 37.64	418.72 413.68	32.67 33.17	-2.39 -2.41	0.115 0.112
150.00	-4.63	-1.61	0.00	-43.00	0.00	43.00	1,015.42	507.71 82	27.46	408.65	33.68	-2.42	0.110
151.00 152.00	-4.58 -4.52	-1.59 -1.57	0.00 0.00	-41.39 -39.81	0.00 0.00	41.39 39.81	1,010.41 1,005.37		17.30 07.18	403.63 398.64	34.19 34.70	-2.44 -2.46	0.107 0.104
153.00	-4.47	-1.55	0.00	-38.24	0.00	38.24	1,000.30	500.15 79	97.09	393.65	35.22	-2.47	0.102
154.00 155.00	-4.41 -4.36	-1.53 -1.51	0.00 0.00	-36.69 -35.16	0.00 0.00	36.69 35.16	995.19 990.04		B7.03 77.01	388.69 383.74	35.74 36.26	-2.49 -2.51	0.099 0.096
156.00	-4.30	-1.49	0.00	-33.65	0.00	33.65			65.62		36.79	-2.52	0.093
157.00	-4.25	-1.47	0.00	-32.16	0.00	32.16	975.56		53.91	372.33	37.32	-2.54	0.091
158.00	-4.20	-1.45	0.00	-30.69	0.00	30.69	968.05	484.03 74	42.29	366.59	37.85	-2.55	0.088

Site Name: Clch - Colchester, CT

Code: ANSI/TIA-222-G Engineering Number: OAA735982_C3_01

© 2007 - 2018 by ATC IP LLC. All rights reserved. 7/2/2018 6:10:53 PM

Load C	ase: 1.0)D + 1.0W	V		Serv	viceability 60) mph					42 Itera	tions
Dead	d Load F	Factor 1. actor : 1. actor : 1.	00							Wind Imp	ortance	Factor :	1.00
159.00 160.00 161.00 162.00 163.00 164.00 165.00 166.00 167.00 168.00 169.00 170.00 171.00 172.00 173.00 174.00 175.00 176.00 177.00	-4.15 -4.09 -4.04 -3.99 -3.94 -3.89 -3.84 -3.79 -3.74 -3.69 -3.64 -3.59 -3.54 -3.54 -3.54 -3.40 -3.35 -3.30 -3.26	-1.43 -1.42 -1.40 -1.38 -1.36 -1.34 -1.32 -1.30 -1.29 -1.27 -1.25 -1.23 -1.21 -1.20 -1.18 -1.16 -1.14 -1.12 -1.11	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	-29.24 -27.81 -26.39 -25.00 -23.62 -22.26 -20.92 -19.60 -18.29 -17.01 -15.74 -14.49 -13.26 -12.05 -10.85 -9.67 -8.51 -7.37 -6.25	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	29.24 27.81 26.39 25.00 23.62 22.26 20.92 19.60 18.29 17.01 15.74 14.49 13.26 12.05 10.85 9.67 8.51 7.37 6.25	960.55 953.04 945.54 938.04 930.53 923.03 915.52 908.02 900.52 893.01 885.51 878.00 870.50 863.00 855.49 847.99 840.48 832.98 842.48	480.27 476.52 472.77 469.02 465.27 461.51 457.76 454.01 450.26 446.51 442.75 439.00 435.25 431.50 427.75 423.99 420.24 416.49 412.74	$\begin{array}{c} 730.76\\719.32\\707.97\\696.71\\685.54\\674.47\\663.48\\652.58\\641.77\\631.06\\620.43\\609.89\\599.45\\589.09\\578.82\\568.65\\558.56\\558.56\\548.57\\538.66\end{array}$	360.90 355.25 349.64 344.08 338.56 333.09 327.67 322.29 316.95 311.65 306.41 301.20 296.04 290.93 285.86 280.83 275.85 270.92 266.02	38.38 38.92 39.47 40.01 40.56 41.11 41.66 42.22 42.77 43.33 43.90 44.46 45.03 45.60 46.17 46.74 47.31 47.88 48.46	-2.57 -2.58 -2.60 -2.61 -2.62 -2.63 -2.65 -2.65 -2.66 -2.67 -2.68 -2.69 -2.70 -2.71 -2.72 -2.73 -2.73 -2.73 -2.74 -2.75 -2.75	0.085 0.083 0.080 0.077 0.074 0.071 0.068 0.065 0.065 0.062 0.059 0.055 0.052 0.049 0.045 0.049 0.045 0.048 0.045 0.042 0.038 0.035 0.031
178.00 179.00 180.00 180.58	-3.21 -3.16 -0.02 0.00	-1.09 -1.07 -0.01 0.00	0.00 0.00 0.00 0.00	-5.14 -4.05 0.00 0.00	0.00 0.00 0.00 0.00	5.14 4.05 0.00 0.00	817.97 810.47 802.96 798.59	408.99 405.23 401.48 399.29	528.85 519.12 509.49 503.91	261.18 256.38 251.62 248.86	49.04 49.61 50.19 50.53	-2.75 -2.76 -2.76 -2.76	0.024 0.020 0.000 0.000

Code: ANSI/TIA-222-G Engineering Number: OAA735982_C3_01

© 2007 - 2018 by ATC IP LLC. All rights reserved. 7/2/2018 6:10:53 PM

Site Name: Clch - Colchester, CT Customer: AT&T MOBILITY

Equivalent Lateral Forces Method Analysis

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

Spectral Response Acceleration for Short Period (S s):	0.17
Spectral Response Acceleration at 1.0 Second Period (S 1):	0.06
Long-Period Transition Period (T $_{L}$):	6
Importance Factor (I):	1.00
Site Coefficient F _a :	1.60
Site Coeffiecient F v:	2.40
Response Modification Coefficient (R):	1.50
Design Spectral Response Acceleration at Short Period (S ds):	0.18
Design Spectral Response Acceleration at 1.0 Second Period (S d1):	0.10
Seismic Response Coefficient (C _s):	0.03
Upper Limit C _s	0.03
Lower Limit C s	0.03
Period based on Rayleigh Method (sec):	3.39
Redundancy Factor (p):	1.30
Seismic Force Distribution Exponent (k):	2.00
Total Unfactored Dead Load:	23.67 k
Seismic Base Shear (E):	0.92 k

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

Seismic Equivalent Lateral Forces Method

	Height Above Base				Horizontal	Vertical
		Weight	Wz		Force	Force
Segment	(ft)	(lb)	(lb-ft)	Cvx	(lb)	(lb)
184	180.29	22	701	0.003	3	27
183	179.50	46	1,483	0.006	6	57
182	178.50	46	1,478	0.006	6	57
181	177.50	47	1,472	0.006	6	58
180	176.50	47	1,467	0.006	6	58
179	175.50	47	1,461	0.006	6	59
178	174.50	48	1,455	0.006	6	59
177	173.50	48	1,449	0.006	6	60
176	172.50	48	1,442	0.006	6	60
175	171.50	49	1,436	0.006	6	60
174	170.50	49	1,429	0.006	6	61
173	169.50	50	1,422	0.006	6	61
172	168.50	50	1,415	0.006	5	62
171	167.50	50	1,408	0.006	5	62
170	166.50	51	1,401	0.006	5	63
169	165.50	51	1,394	0.006	5	63
168	164.50	51	1,387	0.006	5	63
167	163.50	52	1,379	0.006	5	64
166	162.50	52	1,371	0.006	5	64
165	161.50	52	1,364	0.006	5	65
164	160.50	53	1,356	0.006	5	65
163	159.50	53	1,348	0.006	5	66
162	158.50	53	1,339	0.006	5	66

Site Number: 302496	Site N	lumber:	302496
---------------------	--------	---------	--------

© 2007 - 2018 by ATC IP LLC. All rights reserved.

Site Name: Clch - Colchester, CT Customer: AT&T MOBILITY Engineering Number: OAA735982_C3_01

7/2/2018 6:10:53 PM

161 157.50 54 1,331 0.066 5 160 156.50 54 1,323 0.046 5 189 155.50 54 1,314 0.066 5 189 155.50 55 1,299 0.065 5 156 152.50 55 1,299 0.065 5 155 151.50 56 1,279 0.065 5 154 150.50 56 1,279 0.065 5 152 148.50 57 1,243 0.065 5 151 147.50 59 1,243 0.065 5 149 146.50 58 1,244 0.065 5 149 144.50 59 1,105 0.065 5 144 144.50 59 1,178 0.065 5 144 144.50 59 1,178 0.065 4 141 137.50 61 1,146 <	
160 156.50 54 1,314 0.006 5 158 154.80 55 1,306 0.005 5 156 157.7 153.80 55 1,229 0.005 5 156 157.30 56 1,279 0.005 5 154 150.30 56 1,279 0.005 5 154 150.30 56 1,279 0.005 5 154 150.30 56 1,279 0.005 5 154 146.50 57 1,284 0.005 5 150 147.60 58 1,216 0.005 5 149 145.50 58 1,205 0.005 5 144 144.50 58 1,216 0.005 5 145 141.80 59 1,185 0.005 4 144 143.80 60 1,176 0.005 4 144 138.80 60 1,176 0.005 4 144 138.80 61 1,136	66
159 155.60 54 1,314 0.006 5 157 153.80 55 1,227 0.005 5 156 157.50 55 1,228 0.005 5 155 151.50 56 1,229 0.005 5 154 150.50 56 1,229 0.005 5 152 147.50 57 1,254 0.005 5 152 147.50 57 1,254 0.005 5 148 146.50 58 1,224 0.005 5 149 146.50 58 1,224 0.005 5 144 144.50 59 1,135 0.005 5 144 142.50 59 1,136 0.005 5 144 140.50 60 1,176 0.005 5 144 140.50 60 1,186 0.005 4 141 137.50 61 1,146 0.005 4 138 144.50 62 1,165 0.005	67
158 154,50 55 1,206 0.005 5 156 152,50 55 1,228 0.005 5 154 150,50 56 1,279 0.005 5 154 150,50 56 1,279 0.005 5 152 144,50 57 1,221 0.005 5 150 147,50 57 1,232 0.005 5 150 147,50 57 1,233 0.005 5 149 146,50 58 1,224 0.005 5 147 143,50 59 1,185 0.005 5 144 145,50 59 1,185 0.005 5 144 140,50 60 1,166 0.005 4 144 140,50 61 1,135 0.005 4 144 140,50 60 1,166 0.005 4 144 140,50 61 1,126 0.005 4 144 10,50 61 1,126 0.005 <	
157 153.50 55 1.287 0.005 5 155 151.50 56 1.279 0.005 5 153 149.50 56 1.271 0.005 5 153 149.50 57 1.282 0.005 5 151 147.50 57 1.233 0.005 5 150 146.50 57 1.234 0.005 5 149 145.50 58 1.215 0.005 5 149 145.50 58 1.224 0.005 5 147 143.50 59 1.165 0.005 5 144 142.50 59 1.165 0.005 5 144 143.50 60 1.166 0.005 4 144 143.50 62 1.1156 0.005 4 144 135.50 61 1.125 0.005 4 142 138.50 62 1.005 6 1 138 134.50 62 1.005 6 1 </td <td>67</td>	67
156 152.50 55 1,288 0.005 5 154 150.50 56 1,270 0.005 5 153 149.50 56 1,221 0.005 5 152 149.50 57 1,232 0.005 5 150 146.50 57 1,234 0.005 5 148 146.50 58 1,224 0.005 5 148 144.50 59 1,205 0.005 5 144 142.50 59 1,165 0.005 5 144 142.50 59 1,165 0.005 5 144 140.50 60 1,176 0.005 4 141 137.50 61 1,186 0.005 4 142 138.50 60 1,186 0.005 4 133 135.00 62 1,105 0.005 4 134 135.00 62 1,064 <t< td=""><td>68</td></t<>	68
155 151.50 56 1.279 0.005 5 153 149.50 56 1.261 0.005 5 151 147.50 57 1.283 0.005 5 150 145.50 57 1.234 0.005 5 149 145.50 57 1.234 0.005 5 149 145.50 58 1.224 0.005 5 147 143.50 59 1.185 0.005 5 146 142.50 59 1.185 0.005 5 144 140.50 60 1.176 0.005 5 144 140.50 60 1.166 0.005 4 141 137.50 61 1.146 0.005 4 141 137.50 61 1.125 0.005 4 138 134.50 62 1.115 0.005 4 139 135.50 61 1.125 0.005 4 138 134.50 62 1.061 0.005	68
154 150.50 56 1.20 0.005 5 152 148.50 57 1.252 0.005 5 150 147.50 57 1.234 0.005 5 140 145.50 58 1.224 0.005 5 140 145.50 58 1.224 0.005 5 144 144.50 58 1.215 0.005 5 146 142.50 59 1.185 0.005 5 146 142.50 59 1.185 0.005 5 144 140.50 60 1.176 0.005 5 144 140.50 60 1.186 0.005 4 141 137.50 61 1.186 0.005 4 149 135.50 62 1.105 0.005 4 139 135.50 62 1.105 0.005 4 139 135.50 63 1.002 2 2 134 130.50 63 1.003 0.005 4	69
153 149.50 56 1,261 0.005 5 151 147.50 57 1,243 0.005 5 150 146.50 57 1,244 0.005 5 149 145.50 58 1,224 0.005 5 148 144.50 58 1,215 0.005 5 146 142.50 59 1,185 0.005 5 145 141.50 59 1,185 0.005 5 144 140.50 60 1,176 0.005 4 144 140.50 60 1,176 0.005 4 144 140.50 61 1,125 0.005 4 141 137.50 61 1,125 0.005 4 138 134.50 62 1,105 0.005 4 139 135.50 62 1,044 0.005 4 134 130.50 63 1,063 0.004 4 133 131.50 63 1,063 0.004	69
152 148,50 57 1,252 0.005 5 150 146,50 57 1,234 0.005 5 149 145,50 58 1,214 0.005 5 144 144,50 58 1,215 0.005 5 144 144,50 59 1,195 0.005 5 144 142,50 59 1,195 0.005 5 144 140,50 60 1,176 0.005 5 144 140,50 60 1,166 0.005 4 141 137,50 61 1,135 0.005 4 140 136,50 61 1,135 0.005 4 138 134,50 62 1,105 0.005 4 139 135,50 61 1,125 0.005 4 133 132,50 62 1,064 0.005 4 134 130,50 63 1,073 0.005 4 133 122,50 64 1,041 0.004	69
152 148.50 57 1.252 0.005 5 150 146.50 57 1.234 0.005 5 149 145.50 58 1.215 0.005 5 148 144.50 58 1.215 0.005 5 146 142.50 59 1.195 0.005 5 146 142.50 59 1.195 0.005 5 144 140.50 60 1.176 0.005 5 144 140.50 60 1.165 0.005 4 141 137.50 61 1.135 0.005 4 142 138.50 62 1.115 0.005 4 139 135.50 61 1.125 0.005 4 138 134.50 62 1.105 0.005 4 138 132.50 62 1.063 0.004 4 131 127.50 64 1.031 0.005 4 132 128.50 73 1.120 0.005	70
151 147,50 57 1,243 0.005 5 149 146,50 58 1,224 0.005 5 148 144,50 58 1,214 0.005 5 147 143,50 59 1,205 0.005 5 146 142,50 59 1,185 0.005 5 144 140,50 60 1,176 0.005 5 144 140,50 60 1,168 0.005 5 143 139,50 60 1,168 0.005 4 141 137,50 61 1,125 0.005 4 139 135,50 61 1,125 0.005 4 136 134,50 62 1,105 0.005 4 133 133,50 62 1,064 0.005 4 134 130,50 63 1,063 0.005 4 133 128,50 64 1,041 0.004 4 134 130,50 63 1,062 0.004	70
150 146.50 57 1,234 0.005 5 148 144.50 58 1,215 0.005 5 147 143.50 59 1,205 0.005 5 146 142.50 59 1,195 0.005 5 145 141.50 59 1,185 0.005 5 144 140.50 60 1,176 0.005 5 143 139.50 60 1,156 0.005 4 141 137.50 61 1,135 0.005 4 138 134.50 62 1,115 0.005 4 139 135.50 61 1,125 0.005 4 138 134.50 62 1,005 0.005 4 133 129.50 63 1,0073 0.005 4 133 129.50 63 1,063 0.004 4 134 130.50 73 1,120 <	71
149 145.00 58 1,224 0.005 5 147 143.50 59 1,205 0.005 5 146 142.50 59 1,185 0.005 5 145 141.50 59 1,185 0.005 5 143 139.50 60 1,166 0.005 4 144 140.50 61 1,136 0.005 4 144 137.50 61 1,136 0.005 4 144 137.50 61 1,135 0.005 4 144 137.50 61 1,125 0.005 4 138 134.50 62 1,105 0.005 4 138 134.50 62 1,064 0.005 4 136 132.50 63 1,063 0.004 4 137 133.50 62 1,084 0.005 4 134 10.50 63 1,063 0.004 4 132 12.50 64 1,024 0.005 <t< td=""><td>71</td></t<>	71
148144.5058 1215 0.0055146142.50591.1850.0055145141.50591.1860.0055144140.50601.1760.0055143139.50601.1760.0055144137.50611.1360.0054141137.50611.1350.0054142138.50611.1350.0054143136.50611.1350.0054139135.50611.1280.0054138134.50621.1050.0054139135.50631.0630.0054136132.80631.0630.0054133131.50631.0630.0044133129.50631.0630.0044131127.50641.0410.0054132128.50731.1200.0054133127.50741.0860.0054129125.75325110.0022127124.50731.1200.0054128125.50741.0860.0054124121.50751.0710.0044125122.50761.0470.0044126125.50761.0470.0044 <td>72</td>	72
147 143.50 59 1.205 0.005 5 145 141.50 59 1.185 0.005 5 144 140.50 60 1.176 0.005 5 143 139.50 60 1.166 0.005 4 141 137.50 61 1.166 0.005 4 140 136.50 61 1.146 0.005 4 140 136.50 61 1.125 0.005 4 133 134.50 62 1.115 0.005 4 133 134.50 62 1.105 0.005 4 133 132.50 62 1.094 0.005 4 133 132.50 63 1.073 0.005 4 134 130.50 63 1.073 0.005 4 133 128.50 64 1.052 0.004 4 132 128.50 64 1.052 0.004 4 130 126.50 64 1.031 0.004 4 126 123.50 73 1.132 0.005 4 124 125.57 32 511 0.005 4 124 125.50 74 1.098 0.005 4 131 127.50 74 1.088 0.005 4 125 122.50 75 1.028 0.005 4 124 121.50 76 1.047 0.004 4 <t< td=""><td>72</td></t<>	72
146 142.50 59 1,195 0.005 5 144 140.50 60 1,176 0.005 5 143 139.50 60 1,176 0.005 5 142 138.50 60 1,166 0.005 4 141 137.50 61 1,135 0.005 4 140 136.50 61 1,135 0.005 4 138 134.50 62 1,115 0.005 4 137 133.50 62 1,094 0.005 4 136 132.50 63 1,063 0.005 4 133 133.50 62 1,094 0.005 4 134 130.50 63 1,063 0.005 4 133 129.50 63 1,063 0.005 4 133 129.50 64 1,031 0.004 4 130 126.50 73 1,120 0.005 4 131 127.50 74 1,086 0.005	72
145141.50591.1850.0055144140.50601.1760.0055143139.50601.1660.0054141137.50611.1460.0054140136.50611.1250.0054139135.50611.1250.0054139135.50621.1150.0054138134.50621.1050.0054138132.50621.0040.0054138132.50631.0730.0054133122.50631.0630.0044133122.50641.0620.0044130126.50641.0410.0044129125.75325110.0054128125.50731.1220.0054129125.50741.0060.0054126122.50731.1200.0054126125.50741.0060.0054126125.50751.0440.0064128125.50741.0960.0054129125.50751.004412017.50761.0470.0044121118.50751.0690.0054122119.50789970.0044121	73
144140.5060 $1,176$ 0.0055142138.50601.1660.0054141137.50611.1460.0054140136.50611.1350.0054139135.50611.1250.0054139135.50621.1150.0054138134.50621.1050.0054138135.50621.0940.0054136132.50631.0730.0054133135.50631.0630.0044134130.50631.0630.0044132128.50641.0410.0044131127.50641.0410.0044130126.50731.1320.0054132128.50731.1220.0054133127.50641.0410.0044129126.50731.1320.0054128125.50731.1220.0054128125.50751.0840.0054129126.50751.0840.0054126123.50731.1220.0054127124.50761.0470.0044128125.50751.0690.0044129105.50771.0160.0054	
143139.5060 1.166 0.0055142138.50601.1660.0054141137.50611.1460.0054140136.50611.1250.0054138134.50621.1150.0054138134.50621.0040.0054136132.50621.0040.0054137133.50631.0730.0054138132.50631.0630.0044133122.50641.0630.0044133122.50641.0620.0044133127.50641.0410.0044130126.50731.1200.0054129125.75325110.0022126122.50741.0080.0054128125.50741.0860.0054128125.50751.0710.0044128125.50751.0740.0054124121.50751.0740.0054125122.50751.0740.0044124121.50751.0740.0044125122.50761.0440.0054124121.50771.0220.0044125125.50771.0960.0044 </td <td>73</td>	73
142 138.50 60 1.166 0.005 4 140 136.50 61 1.135 0.005 4 130 135.50 61 1.125 0.005 4 138 134.50 62 1.115 0.005 4 137 133.50 62 1.044 0.005 4 136 132.50 62 1.004 0.005 4 135 131.50 63 1.063 0.005 4 133 129.50 63 1.063 0.004 4 131 127.50 64 1.041 0.002 2 133 128.50 64 1.041 0.004 4 130 126.50 64 1.041 0.002 2 128 122.50 73 1.132 0.004 4 129 125.75 32 511 0.002 2 127 124.50 73 1.132 0.005 4 124 127.50 74 1.068 0.005 4 124 125.50 73 1.132 0.005 4 124 122.50 75 1.071 0.004 4 124 121.50 75 1.071 0.004 4 124 121.50 76 1.047 0.004 4 124 121.50 77 1.0122 0.004 4 124 115.50 77 1.0164 0.004 4	74
141137.5061 1.146 0.005 4140136.5061 1.125 0.005 4139135.5062 1.115 0.005 4138134.5062 1.105 0.005 4136132.5062 1.094 0.005 4136132.5063 1.073 0.005 4137133.5063 1.073 0.005 4138132.5063 1.063 0.005 4133122.5063 1.063 0.005 4134130.5063 1.063 0.004 4133128.5064 1.052 0.004 4130126.5064 1.031 0.004 4129125.7532511 0.002 2128125.2536571 0.005 4129125.7532511 0.005 4126123.5073 1.132 0.005 4125122.5074 1.096 0.005 4124121.5075 1.071 0.004 4125122.5075 1.069 0.004 4124121.5075 1.069 0.004 4125122.5077 1.022 0.004 4126133.5077 1.022 0.004 4127118.5077 1.022 0.004 4	74
140 13650 61 $1,135$ 0.005 4 139 13550 62 $1,115$ 0.005 4 137 13350 62 $1,115$ 0.005 4 136 13250 62 $1,094$ 0.005 4 136 13250 63 $1,004$ 0.005 4 135 131.50 63 $1,004$ 0.005 4 133 129.50 63 $1,063$ 0.004 4 132 128.50 64 $1,062$ 0.004 4 131 127.50 64 $1,0041$ 0.004 4 130 126.50 64 $1,0041$ 0.004 4 128 125.75 32 5111 0.002 2 128 125.55 36 5711 0.002 2 128 125.50 73 $1,132$ 0.005 4 126 123.50 73 $1,132$ 0.005 4 124 125.50 74 $1,008$ 0.005 4 124 122.50 74 $1,008$ 0.005 4 124 125.50 75 $1,071$ 0.004 4 124 125.50 76 $1,034$ 0.004 4 124 125.50 76 $1,034$ 0.004 4 124 125.50 77 $1,022$ 0.004 4 124 115.50 77 $1,022$ 0.004 4 <	75
139135.5061 $1,125$ 0.0054138134.5062 $1,115$ 0.0054137133.5062 $1,044$ 0.0054136132.5063 $1,084$ 0.0054134130.5063 $1,063$ 0.0044133129.5063 $1,063$ 0.0044132128.5064 $1,052$ 0.0044130126.5064 $1,031$ 0.0044130126.5064 $1,031$ 0.0022128125.25365710.0022128125.25365710.0054128125.2573 $1,122$ 0.0054124125.5073 $1,120$ 0.0054125122.5074 $1,088$ 0.0054124121.5075 $1,064$ 0.0054125122.5075 $1,064$ 0.0054123120.5075 $1,064$ 0.0044124118.5076 $1,034$ 0.0044118115.5077 $1,022$ $0,004$ 4118115.5077 $1,010$ $0,004$ 4116113.5079 960 $0,004$ 4117114.5078 972 $0,004$ 4118115.5077 $1,010$ $0,004$ 4114111.5078<	75
138134 5062 $1,15$ 0.0054137133 5062 $1,094$ 0.0054136132.5063 $1,094$ 0.0054135131.5063 $1,073$ 0.0054134130.5063 $1,073$ 0.0054133129.5063 $1,063$ 0.0044131127.5064 $1,041$ 0.0044130126.5064 $1,041$ 0.0044130126.5064 $1,031$ 0.0022128125.75325110.0022128125.55365710.0022128125.5073 $1,132$ 0.0054129125.75325110.0054128125.5073 $1,120$ 0.0054129125.75325110.0054128125.5074 $1,086$ 0.0054129125.5074 $1,086$ 0.0054121118.5075 $1,071$ 0.0044122119.5075 $1,071$ 0.0044121118.5077 $1,022$ 0.0044119116.5077 $1,010$ 0.0044116113.50789720.0044117114.5077 997 0.0044118115.50789922	75
138134.50621,150.0054137133.50621,0940.0054136132.50621,0940.0054134130.50631,0730.0054133129.50631,0630.0044131127.50641,0410.0044130126.50641,0410.0044131127.50641,0410.0044130126.50641,0310.0044129125.75325110.0022128125.25365710.0022126123.50731,1200.0054125122.50741,0860.0054124121.50741,0860.0054125122.50751,0710.0044126123.50751,0840.0054121118.50751,0890.0044122119.50751,0340.0044121118.50771,0100.0044119116.50771,0120.0044116113.50771,0100.0044117114.50771,0100.0044118115.50789720.0044116113.50799470.0044 <t< td=""><td>76</td></t<>	76
137 133.50 62 1.065 0.005 4 136 132.50 62 1.094 0.005 4 134 130.50 63 1.073 0.005 4 133 129.50 63 1.063 0.004 4 132 128.50 64 1.062 0.004 4 131 127.50 64 1.041 0.004 4 130 126.50 64 1.031 0.004 4 129 125.75 32 611 0.002 2 127 124.50 73 1.132 0.005 4 126 123.50 73 1.132 0.005 4 126 123.50 73 1.132 0.005 4 125 122.50 74 1.006 0.005 4 124 121.50 75 1.094 0.005 4 124 121.50 75 1.094 0.004 4 122 119.50 75 1.096 0.004 4 120 117.50 76 1.047 0.004 4 116 113.50 77 1.022 0.004 4 117 114.50 77 1.022 0.004 4 118 115.50 78 965 0.004 4 117 112.50 78 965 0.004 4 118 115.50 79 947 0.004 4	76
136 132.50 62 1.064 0.005 4 134 13.50 63 1.073 0.005 4 133 129.50 63 1.073 0.004 4 132 128.50 64 1.052 0.004 4 131 127.50 64 1.041 0.004 4 130 126.50 64 1.031 0.004 4 130 126.50 64 1.031 0.004 4 129 125.75 32 511 0.002 2 128 125.25 36 571 0.002 2 128 125.25 36 571 0.005 4 126 123.50 73 1.120 0.005 4 126 122.50 74 1.086 0.005 4 124 121.50 74 1.084 0.005 4 123 120.50 75 1.071 0.004 4 121 118.50 75 1.071 0.004 4 120 177.50 76 1.034 0.004 4 116 113.50 77 1.022 0.004 4 116 113.50 77 1.022 0.004 4 117 114.50 78 972 0.004 4 118 115.50 78 972 0.004 4 116 113.50 79 960 0.004 4 117	77
135 131.50 63 1.004 0.005 4 134 130.50 63 1.073 0.005 4 133 129.50 63 1.063 0.004 4 132 128.50 64 1.062 0.004 4 130 126.50 64 1.041 0.004 4 130 126.50 64 1.031 0.004 4 129 125.75 32 511 0.002 2 127 124.50 73 1.132 0.005 4 126 123.50 73 1.120 0.005 4 125 122.50 74 1.096 0.005 4 124 121.50 74 1.096 0.005 4 124 121.50 75 1.084 0.005 4 122 119.50 75 1.064 0.004 4 122 119.50 76 1.047 0.004 4 120 117.50 76 1.047 0.004 4 118 115.50 77 9.97 0.004 4 117 114.50 77 9.97 0.004 4 118 115.50 78 985 0.004 4 1114 111.50 78 972 0.004 4 1112 109.50 79 9.47 0.004 4 1114 115.50 79 9.35 0.004 4 <td< td=""><td>77</td></td<>	77
134130.50 63 1.073 0.005 4133129.50 63 1.063 0.004 4132128.50 64 1.062 0.004 4131127.50 64 1.041 0.004 4130126.50 64 1.031 0.004 4129125.75 32 511 0.002 2128125.25 36 571 0.002 2126123.50 73 1.132 0.005 4126123.50 74 1.108 0.005 4124121.50 74 1.096 0.005 4123120.50 75 1.071 0.004 412411.50 75 1.071 0.004 4123120.50 75 1.071 0.004 4124118.50 75 1.071 0.004 4125122.50 74 1.096 0.004 4126 117.50 76 1.047 0.004 4127 118.50 77 1.010 0.004 4118 115.50 77 997 0.004 4116 113.50 77 997 0.004 4116 113.50 79 947 0.004 4117 10.50 79 947 0.004 4118 10.50 79 947 0.004 4119 10.50 8	78
133129.50631,0630.0044132128.50641,0520.0044131127.50641,0410.0044130126.50641,0310.0044129125.75325110.0022127124.50731,1320.0054126123.50731,1200.0054125122.50741,1080.0054124121.50741,0960.0054122119.50751,0590.0044121118.50751,0640.0054122119.50751,0690.0044119116.50761,0470.0044118115.50771,0100.0044116113.50771,0100.0044116113.50779970.0044116113.50799470.0044111108.50799350.0044111108.50799350.0044111108.50799350.0044113110.50789970.004411411.50789970.0044115112.50789850.0044116113.50799350.0044116 <t< td=""><td>78</td></t<>	78
132 128.50 64 1.052 0.004 4 131 127.50 64 1.041 0.004 4 130 126.50 64 1.031 0.004 4 129 125.75 32 511 0.002 2 128 125.25 36 571 0.002 2 126 123.50 73 1.132 0.005 4 126 123.50 73 1.120 0.005 4 126 122.50 74 1.086 0.005 4 123 120.50 75 1.071 0.004 4 122 119.50 75 1.071 0.004 4 121 118.50 75 1.059 0.004 4 121 118.50 76 1.047 0.004 4 118 115.50 77 1.022 0.004 4 118 115.50 77 1.022 0.004 4 116 113.50 77 997 0.004 4 114 111.50 78 985 0.004 4 114 110.50 79 940 0.004 4 111 108.50 79 935 0.004 4 111 108.50 79 935 0.004 4 116 113.50 79 935 0.004 4 116 113.50 79 935 0.004 4 116	
131127.5064 1.041 0.004 4130126.5064 1.031 0.004 4129125.7532 511 0.002 2128125.2536 571 0.002 2127124.5073 1.132 0.005 4126123.5074 1.096 0.005 4125122.5074 1.096 0.005 4123120.5075 1.064 0.005 4124121.5075 1.064 0.005 4123120.5075 1.064 0.005 4124115.5075 1.064 0.004 4120117.5076 1.047 0.004 4119116.5076 1.034 0.004 4118115.5077 1.022 0.004 4116113.5077 997 0.004 4115112.5078 985 0.004 4114111.5078 972 0.004 4115102.5080 909 0.04 4111108.5079 935 0.004 4111108.5079 935 0.004 411310.5080 909 0.004 4106103.5081 872 0.004 3106103.5081 8972 0.004 3106 </td <td>78 79</td>	78 79
130126.50 64 $1,031$ 0.004 4 129125.7532 511 0.002 2128125.2536 571 0.002 2127124.5073 $1,132$ 0.005 4126123.5073 $1,120$ 0.005 4125122.5074 $1,086$ 0.005 4124121.5074 $1,096$ 0.005 4123120.5075 $1,084$ 0.005 4124121.5075 $1,071$ 0.004 4125117.5076 $1,047$ 0.004 4120117.5076 $1,047$ 0.004 4118115.5077 $1,022$ 0.004 4117114.5077 $1,022$ 0.004 4118115.5078 985 0.004 4115112.5078 985 0.004 4114111.5078 972 0.004 4112109.5079 947 0.004 4111108.5079 935 0.004 4108105.5081 897 0.004 3106103.5081 872 0.004 3106103.5081 872 0.004 3106103.5081 872 0.004 3105102.5082 859 0.004 310	
129125.7532 311 0.002 2128125.2536571 0.002 2127124.5073 1.132 0.005 4126123.5073 1.120 0.005 4125122.5074 1.08 0.005 4124121.5074 1.096 0.005 4123120.5075 1.084 0.005 4124121.5075 1.071 0.004 4122119.5075 1.071 0.004 4121118.5076 1.047 0.004 4120117.5076 1.047 0.004 4118115.5077 1.010 0.004 4117114.5077 1.010 0.004 4115112.5078997 0.004 4115112.5078995 0.004 4114111.5079960 0.004 4112109.5079935 0.004 4111108.5080909 0.004 4109106.5080909 0.004 3106103.5081877 0.004 3106103.5081879 0.004 3106103.5081879 0.004 3105102.5082869 0.004 3104101.5082	79
128125.2536 571 0.002 2127124.50731,1320.0054126123.50731,1200.0054125122.50741,1080.0054124121.50741,0960.0054123120.50751,0840.0054124119.50751,0590.0044122119.50751,0590.0044121118.50761,0470.0044119116.50761,0340.0044118115.50771,0220.0044116113.50779970.0044115112.50789850.0044115112.50799470.0044111108.50799350.0044112109.50799470.0044111106.50809090.0044112109.50799350.0044111106.50818720.0043106103.50818720.0043105102.50828590.0043106103.50818720.0043105102.50838340.0043104101.50838590.00431051	80
127 $124,50$ 73 $1,132$ 0.005 4 126 $123,50$ 73 $1,120$ 0.005 4 125 $122,50$ 74 $1,018$ 0.005 4 124 $121,50$ 74 $1,096$ 0.005 4 123 $120,50$ 75 $1,084$ 0.005 4 122 $119,50$ 75 $1,059$ 0.004 4 121 $118,50$ 75 $1,059$ 0.004 4 120 $117,50$ 76 $1,047$ 0.004 4 118 $115,50$ 77 $1,022$ 0.004 4 116 $113,50$ 77 $1,010$ 0.004 4 116 $113,50$ 77 997 0.004 4 114 $111,50$ 78 985 0.004 4 114 $110,50$ 79 960 0.004 4 113 $100,50$ 79 935 0.004 4 111 $108,50$ 79 935 0.004 4 111 $108,50$ 79 935 0.004 4 108 $105,50$ 81 897 0.004 4 108 $105,50$ 81 897 0.004 3 107 $104,50$ 81 846 0.004 3 106 $103,50$ 81 872 0.004 3 104 $101,50$ 82 869 0.004 3 104	40
126 123.50 73 $1,120$ 0.005 4 125 122.50 74 $1,108$ 0.005 4 124 121.50 74 $1,096$ 0.005 4 123 120.50 75 $1,096$ 0.005 4 122 119.50 75 $1,071$ 0.004 4 120 117.50 76 $1,059$ 0.004 4 120 117.50 76 $1,034$ 0.004 4 118 115.50 77 $1,022$ 0.004 4 118 115.50 77 $1,010$ 0.004 4 116 113.50 77 997 0.004 4 116 113.50 77 997 0.004 4 115 112.50 78 985 0.004 4 113 110.50 79 960 0.004 4 112 109.50 79 960 0.004 4 111 105.50 80 922 0.004 4 111 109.50 79 935 0.004 4 110 107.50 80 922 0.004 4 108 105.50 81 897 0.004 3 107 104.50 81 884 0.004 3 106 103.50 81 897 0.004 3 106 103.50 81 872 0.004 3 106 1	45
125 122.50 74 $1,108$ 0.005 4 124 121.50 74 $1,096$ 0.005 4 123 120.50 75 $1,084$ 0.005 4 122 119.50 75 $1,071$ 0.004 4 121 118.50 75 $1,059$ 0.004 4 120 117.50 76 $1,047$ 0.004 4 119 116.50 76 $1,034$ 0.004 4 118 115.50 77 $1,022$ 0.004 4 117 114.50 77 997 0.004 4 116 113.50 77 997 0.004 4 115 112.50 78 985 0.004 4 114 111.50 78 985 0.004 4 113 100.50 79 947 0.004 4 111 108.50 79 935 0.004 4 111 108.50 79 935 0.004 4 111 108.50 80 909 0.004 4 108 105.50 81 897 0.004 3 107 104.50 81 872 0.004 3 106 103.50 81 872 0.004 3 104 101.50 82 859 0.004 3 102 99.50 83 809 0.003 3	90
124 121.50 74 $1,096$ 0.005 4 123 120.50 75 $1,084$ 0.005 4 122 119.50 75 $1,071$ 0.004 4 121 118.50 75 $1,059$ 0.004 4 120 117.50 76 $1,047$ 0.004 4 119 116.50 76 $1,034$ 0.004 4 118 115.50 77 $1,022$ 0.004 4 116 113.50 77 $1,010$ 0.004 4 116 113.50 77 997 0.004 4 116 113.50 77 997 0.004 4 116 113.50 77 997 0.004 4 114 110.50 78 985 0.004 4 112 109.50 79 960 0.004 4 111 108.50 79 947 0.004 4 111 108.50 80 902 0.004 4 111 108.50 80 902 0.004 4 100 105.50 81 897 0.004 3 107 104.50 81 872 0.004 3 106 103.50 81 872 0.004 3 104 101.50 82 846 0.004 3 103 102.50 83 834 0.004 3 104 101	91
124 121.50 74 $1,096$ 0.005 4 123 120.50 75 $1,084$ 0.005 4 122 119.50 75 $1,071$ 0.004 4 121 118.50 75 $1,059$ 0.004 4 120 117.50 76 $1,047$ 0.004 4 119 116.50 76 $1,034$ 0.004 4 118 115.50 77 $1,022$ 0.004 4 117 114.50 77 $1,010$ 0.004 4 116 113.50 77 997 0.004 4 115 112.50 78 985 0.004 4 114 111.50 78 972 0.004 4 113 110.50 79 960 0.004 4 111 108.50 79 947 0.004 4 111 105.50 80 922 0.004 4 111 108.50 79 935 0.004 4 109 106.50 80 909 0.004 3 106 103.50 81 872 0.004 3 106 102.50 82 869 0.004 3 104 101.50 82 866 0.004 3 103 102.50 83 824 0.003 3 104 101.50 83 824 0.003 3 104 101	91
123120.50751,0840.0054122119.50751,0710.0044121118.50751,0590.0044120117.50761,0470.0044119116.50761,0340.0044118115.50771,0220.0044117114.50771,0100.0044116113.50779970.0044115112.50789850.0044113110.50799600.0044111108.50799600.0044111108.50799350.0044110107.50809220.0044108105.50818970.0043107104.50818840.0043106102.50828590.0043105102.50828590.0043104101.50828460.0043103100.50838340.0043104101.50828690.0033	92
122 119.50 75 $1,071$ 0.004 4 121 118.50 75 $1,059$ 0.004 4 120 117.50 76 $1,047$ 0.004 4 119 116.50 76 $1,034$ 0.004 4 118 115.50 77 $1,022$ 0.004 4 116 113.50 77 $1,010$ 0.004 4 116 113.50 77 997 0.004 4 116 112.50 78 985 0.004 4 113 110.50 79 960 0.004 4 112 109.50 79 960 0.004 4 111 108.50 79 935 0.004 4 111 108.50 79 935 0.004 4 110 107.50 80 922 0.004 4 109 106.50 80 909 0.004 4 108 105.50 81 897 0.004 3 106 103.50 81 897 0.004 3 105 102.50 82 859 0.004 3 104 101.50 82 846 0.004 3 103 100.50 83 834 0.004 3 104 99.50 83 821 0.003 3	92
121 118.50 75 $1,059$ 0.004 4 120 117.50 76 $1,047$ 0.004 4 119 116.50 76 $1,034$ 0.004 4 118 115.50 77 $1,022$ 0.004 4 117 114.50 77 $1,010$ 0.004 4 116 113.50 77 997 0.004 4 115 112.50 78 985 0.004 4 114 111.50 78 972 0.004 4 113 110.50 79 960 0.004 4 111 109.50 79 947 0.004 4 111 108.50 79 935 0.004 4 110 107.50 80 922 0.004 4 108 105.50 81 897 0.004 4 108 105.50 81 897 0.004 3 106 103.50 81 872 0.004 3 106 103.50 81 872 0.004 3 104 101.50 82 859 0.004 3 103 100.50 83 834 0.004 3 104 101.50 82 846 0.004 3 103 100.50 83 821 0.003 3 101 98.50 83 809 0.003 3	93
120 117.50 76 1.047 0.004 4 119 116.50 76 1.034 0.004 4 118 115.50 77 1.022 0.004 4 117 114.50 77 1.010 0.004 4 116 113.50 77 997 0.004 4 115 112.50 78 985 0.004 4 114 111.50 78 972 0.004 4 113 110.50 79 960 0.004 4 112 109.50 79 947 0.004 4 111 108.50 79 935 0.004 4 110 107.50 80 922 0.004 4 109 106.50 80 909 0.004 4 108 105.50 81 897 0.004 3 106 103.50 81 897 0.004 3 106 103.50 81 812 0.004 3 105 102.50 82 859 0.004 3 104 101.50 82 866 0.004 3 103 100.50 83 824 0.003 3 101 98.50 83 809 0.003 3	93
119116.50761.0340.0044118115.50771.0220.0044117114.50771.0100.0044116113.50779970.0044115112.50789850.0044113110.50799600.0044112109.50799600.0044111108.50799350.0044110107.50809220.0044109106.50809090.0044108105.50818970.0043106103.50818720.0043105102.50828590.0043104101.50828460.0043103100.50838210.003310198.50838090.0033	94
118115.50771,0220.0044117114.50771,0100.0044116113.50779970.0044115112.50789850.0044114111.50789720.0044113110.50799600.0044112109.50799470.0044111108.50799350.0044110107.50809220.0044109106.50818970.0043106103.50818720.0043105102.50828590.0043104101.50828590.0043103100.50838340.004310299.50838210.003310198.50838090.0033	94
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	95
116 113.50 77 997 0.004 4 115 112.50 78 985 0.004 4 114 111.50 78 972 0.004 4 113 110.50 79 960 0.004 4 112 109.50 79 947 0.004 4 111 108.50 79 947 0.004 4 110 107.50 80 922 0.004 4 109 106.50 80 909 0.004 4 108 105.50 81 897 0.004 3 107 104.50 81 884 0.004 3 106 102.50 82 859 0.004 3 105 102.50 82 859 0.004 3 104 101.50 82 846 0.004 3 103 100.50 83 834 0.004 3 102 99.50 83 821 0.003 3 101 98.50 83 809 0.003 3	95
115 112.50 78 985 0.004 4 114 111.50 78 972 0.004 4 113 110.50 79 960 0.004 4 112 109.50 79 947 0.004 4 111 108.50 79 935 0.004 4 110 107.50 80 922 0.004 4 109 106.50 80 909 0.004 4 108 105.50 81 897 0.004 3 107 104.50 81 884 0.004 3 106 102.50 82 859 0.004 3 105 102.50 82 859 0.004 3 104 101.50 82 846 0.004 3 103 100.50 83 834 0.004 3 102 99.50 83 821 0.003 3 101 98.50 83 809 0.003 3	95 96
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	96
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	97
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	97
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	98
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	98
	99
108105.50818970.0043107104.50818840.0043106103.50818720.0043105102.50828590.0043104101.50828460.0043103100.50838340.004310299.50838210.003310198.50838090.0033	99
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	100
105102.50828590.0043104101.50828460.0043103100.50838340.004310299.50838210.003310198.50838090.0033	100
105102.50828590.0043104101.50828460.0043103100.50838340.004310299.50838210.003310198.50838090.0033	100
104101.50828460.0043103100.50838340.004310299.50838210.003310198.50838090.0033	101
103100.50838340.004310299.50838210.003310198.50838090.0033	
102 99.50 83 821 0.003 3 101 98.50 83 809 0.003 3	102
101 98.50 83 809 0.003 3	102
	103
100 97.50 84 796 0.003 3	103
	104
99 96.50 84 783 0.003 3	104
98 95.50 85 771 0.003 3	105

Code: ANSI/TIA-222-G

© 2007 - 2018 by ATC IP LLC. All rights reserved.

Site Name: Clch - Colchester, CT

Engineering Number: OAA735982_C3_01

7/2/2018 6:10:54 PM

97	94.50	05	750	0.003	3	105
	94.50	85	758			
96	93.50	85	746	0.003	3	106
95	92.50	86	733	0.003	3	106
94	91.50	86	721	0.003	3	107
93	90.50	87	709	0.003	3	107
92	89.50	87	696	0.003	3	107
91	88.50	87	684	0.003	3	108
90						
	87.50	88	671	0.003	3	108
89	86.50	88	659	0.003	3	109
88	85.88	22	163	0.001	1	27
87	85.38	96	699	0.003	3	119
86	84.50	128	917	0.004	4	159
85	83.50	129	899	0.004	3	160
84	82.50				3	160
		130	882	0.004		
83	81.50	130	865	0.004	3	161
82	80.50	131	848	0.004	3	162
81	79.50	131	830	0.003	3	163
80	78.50	132	813	0.003	. 3	163
79	77.50	133	796	0.003	3	164
78	76.50	133			3	165
	76.50		779	0.003		
77	75.50	134	762	0.003	3	165
76	74.50	134	746	0.003	3	166
75	73.50	135	729	0.003	3	167
74	72.50	136	712	0.003	3	168
73	71.50	136	696	0.003	3	168
72	70.50	137	680	0.003	3	169
71						
	69.50	137	663	0.003	3	170
70	68.50	138	647	0.003	3	171
69	67.50	139	631	0.003	2	171
68	66.50	139	615	0.003	2	172
67	65.50	140	599	0.003	2	173
66	64.50	140	584	0.002	2	174
65					2	174
	63.50	141	568	0.002	2	
64	62.50	141	553	0.002	2	175
63	61.50	142	537	0.002	2	176
62	60.50	143	522	0.002	2	176
61	59.50	143	507	0.002	2	177
60	58.50	144	492	0.002	2	178
59	57.50	144	478	0.002	2	179
	57.50			0.002	2	179
58	56.50	145	463	0.002		
57	55.50	146	449	0.002	2	180
56	54.50	146	434	0.002	2	181
55	53.50	147	420	0.002	2	182
54	52.50	147	406	0.002	2	182
53	51.50	148	393	0.002	2	183
52	50.50	149		0.002	1	184
			379			
51	49.50	149	366	0.002	1	185
50	48.50	150	352	0.001	1	185
49	47.50	150	339	0.001	1	186
48	46.50	1 51	326	0.001	1	187
47	45.50	152	314	0.001	1	187
46	44.88	38	76	0.000	0	47
					1	163
45	44.38	132	260	0.001		
44	43.50	176	334	0.001	1	218
43	42.50	177	320	0.001	1	219
42	41.50	178	306	0.001	1	220
41	40.50	179	293	0.001	1	221
40	39.50	179	280	0.001	1	222
39	38.50	180			1	223
			267	0.001		
38	37.50	181	254	0.001	1	223
37	36.50	181	242	0.001	1	224
36	35.50	182	229	0.001	1	225
35	34.50	183	217	0.001	1	226
34	33.50	183	206	0.001	1	227
	55.55		200	0.001	•	

Site	Number:	302496

© 2007 - 2018 by ATC IP LLC. All rights reserved. 7/2/2018 6:10:54 PM

Site Name: Clch - Colchester, CT Customer: AT&T MOBILITY Engineering Number: OAA735982_C3_01

33	32.50	184	194	0.001	1	220
32	31.50	185		0.001	1	228 229
31	30.50	185	183		•	
30	29.50	185	173	0.001	1	229
			162	0.001	1	230
29	28.50	187	152	0.001	1	231
28	27.50	188	142	0.001	1	232
27	26.50	188	132	0.001	1	233
26	25.50	189	123	0.001	0	234
25	24.50	190	114	0.000	0	235
24	23.50	190	105	0.000	0	235
23	22.50	191	97	0.000	0	236
22	21.50	192	89	0.000	õ	237
21	20.50	192	81	0.000	Ö	238
20	19.50	193		0.000	0	230
19	18.50	193	73			
18			66	0.000	0	240
	17.50	194	60	0.000	0	241
17 16	16.50	195	53	0.000	0	241
	15.50	196	47	0.000	0	242
15	14.50	197	41	0.000	0	243
14	13.50	197	36	0.000	0	244
13	12.50	198	31	0.000	0	245
12	11.50	199	26	0.000	0	246
11	10.50	199	22	0.000	0	247
10	9.50	200	 18	0.000	0	247
9	8.50	201	15	0.000	0	248
8	7.50	201	13	0.000	ŏ	249
7	6.50	202	9	0.000	Ö	250
6	5.50	202		0.000	0	250
5			6			
5 4	4.50	203	4	0.000	0	252
	3.50	204	3	0.000	0	253
3	2.50	205	1	0.000	0	253
2	1.50	206	0	0.000	0	254
1	0.50	206	0	0.000	0	255
Kaelus DBC0061F1V51-	180.00	76	2,479	0.010	10	95
Raycap DC6-48-60-18-	180.00	20	648	0.003	3	25
Powerwave LGP17201	180.00	186	6,026	0.025	23	230
Ericsson RRUS-11 800	180.00	162	5,249	0.022	20	200
Ericsson RRUS 32 B2	180.00	159	5,152	0.022	20	197
KMW AM-X-CD-14-65-00	180.00	36	1,179	0.005	5	45
Powerwave 7770.00	180.00	105	3,402	0.005	13	130
Quintel QS46512-2	180.00	103				
Andrew SBNH-1D6565C	180.00	132	3,370	0.014	13	129
CCI TPA-65R-LCUUUU-H			4,283	0.018	17	164
	180.00	163	5,288	0.022	20	202
Round Platform w/ Ha	180.00	2,000	64,800	0.272	251	2,474
		22 666	220 160	1 000	000	20.272
		23,666	238,166	1.000	923	29,273

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

Seismic (Reduced DL) Equivalent Lateral Forces Method

	Height Above Base	Weight	Wz		Horizontal Force	Vertical Force
Segment	(ft)	(lb)	(lb-ft)	Cvx	(lb)	(lb)
184	180.29	22	701	0.003	3	19
183	179.50	46	1,483	0.006	6	40
182	178.50	46	1,478	0.006	6	40
181	177.50	47	1,472	0.006	6	40
180	176.50	47	1,467	0.006	6	41
179	175.50	47 ′	1,461	0.006	6	41
178	174.50	48	1,455	0.006	6	41
177	173.50	48	1,449	0.006	6	42
176	172.50	48	1,442	0.006	6	42
175	171.50	49	1,436	0.006	6	42

Customer:

Code: ANSI/TIA-222-G

© 2007 - 2018 by ATC IP LLC. All rights reserved. 7/2/2018 6:10:54 PM

Site Name: Clch - Colchester, CT AT&T MOBILITY

Engineering Number: OAA735982_C3_01

174	170.50	49	1,429
173	169.50	50	1,422
172	168.50	50	1,415
171	167.50	50	1,408
170	166.50	51	1,401
169	165.50	51	1,394
168	164.50	51	1,387
167	163.50	52	1,379
166	162.50	52	1,371
165	161.50	52	1,364
164	160.50	53	1,356
163	159.50	53	1,348
162	158.50	53	1,339
161	157.50	54	1,331
160	156.50	54	1,323
159	155.50	54	1,314
158	154.50	55	1,306
157	153.50	55	1,297
156	152.50	55	1,288
155	151.50	56	1,279
154	150.50	56	1 270

174	170.50	49	1 420	0.006	c	40
	170.50		1,429		6	42
173	169.50	50	1,422	0.006	6	43
172	168.50	50	1,415	0.006	5	43
171	167.50	50	1,408	0.006	5	43
170	166.50	51	1,401	0.006	5	44
169	165.50	51	1,394	0.006	5	44
168	164.50	51	1,387	0.006	5	44
167	163.50	52	1,379	0.006	5	45
166	162.50	52	1,371	0.006	5	45
165	161.50	52	1,364	0.006	5	45
164	160.50	53	1,356	0.006	5	45
163	159.50	53		0.006	5	46
			1,348			
162	158.50	53	1,339	0.006	5	46
161	157.50	54		0.006	5	46
			1,331			
160	156.50	54	1,323	0.006	5	47
159	155.50	54	1,314	0.006	5	47
158	154.50	55	1,306	0.005	5	47
157	153.50	55	1,297	0.005	5	48
156						
	152.50	55	1,288	0.005	5	48
155	151.50	56	1,279	0.005	5	48
154	150.50	56		0.005	5	48
			1,270			
153	149.50	56	1,261	0.005	5	49
152	148.50	57	1,252	0.005	5	49
151	147.50	57	1,243	0.005	5	49
150	146.50	57	1,234	0.005	5	50
149	145.50				5	
		58	1,224	0.005	5	50
148	144.50	58	1,215	0.005	5	50
147	143.50	59		0.005	5	51
			1,205			
146	142.50	59	1,195	0.005	5	51
145	141.50	59		0.005	5	51
			1,185		5	
144	140.50	60	1,176	0.005	5	51
143	139.50	60	1,166	0.005	5	52
142	138.50	60	1,156	0.005	4	52
141	137.50	61	1,146	0.005	4	52
140	136.50	61				
			1,135	0.005	4	53
139	135.50	61	1,125	0.005	4	53
138	134.50	62	1,115	0.005	4	53
137	133.50	62	1,105	0.005	4	53
136	132.50	62	1,094	0.005	4	54
135	131.50					
		63	1,084	0.005	4	54
134	130.50	63	1,073	0.005	4	54
133	129.50	63		0.004	4	55
			1,063			
132	128.50	64	1,052	0.004	4	55
131	127.50	64	1,041	0.004	4	55
130	126.50	64	1,031	0.004	4	56
129	125.75	32	511	0.002	2 2	28
128	125.25	36			2	31
			571	0.002		
127	124.50	73	1,132	0.005	4	63
126	123.50	73		0.005	4	63
			1,120			
125	122.50	74	1,108	0.005	4	64
124	121.50	74	1,096	0.005	4	64
123	120.50					
		75	1,084	0.005	4	64
122	119.50	75	1,071	0.004	4	65
121	118.50	75	1,059	0.004	4	65
120	117.50	76	1,047	0.004	4	65
119	116.50	76	1,034	0.004	4	66
118						
	115.50	77	1,022	0.004	4	66
117	114.50	77	1,010	0.004	4	66
116						
	113.50	77	997	0.004	4	67
115	112.50	78	985	0.004	4	67
114	111.50	78				
			972	0.004	4	67
113	110.50	79	960	0.004	4	68
112	109.50	79	947	0.004	4	68
111	108.50	79	935	0.004	4	69

Customer:

Code: ANSI/TIA-222-G

© 2007 - 2018 by ATC IP LLC. All rights reserved. 7/2/2018 6:10:54 PM

Site Name: Clch - Colchester, CT AT&T MOBILITY

Engineering Number: OAA735982_C3_01

110	107.50	80	922	0.004	4	69
109	106.50	80	909	0.004	4	69
108	105.50	81	897	0.004	3	70
107	104.50	81	884	0.004	3	70
106	103.50	81	872	0.004	3	70
105	102.50	82	859	0.004	3	71
104	101.50	82	846	0.004	3	71
103	100.50	83	834	0.004	3	71
102	99.50	83	821	0.003	3	72
101	98.50	83	809	0.003	3	72
100	97.50	84	796	0.003	3	72
99	96.50	84	783	0.003	3	73
98	95.50	85	703	0.003	3	73
97	94.50	85	758	0.003	3	73
96	93.50	85	738	0.003	3	74
95	92.50	86		0.003	3	74
94	91.50	86	733 721			74
93	90.50	87		0.003 0.003	3 3	74 75
92	89.50		709			
		87	696	0.003	3	75
91 90	88.50	87	684	0.003	3	75
	87.50	88	671	0.003	3	76
89	86.50	88	659	0.003	3	76
88	85.88	22	163	0.001	1	19
87	85.38	96	699	0.003	3	83
86	84.50	128	917	0.004	4	111
85	83.50	129	899	0.004	3	111
84	82.50	130	882	0.004	3	112
83	81.50	130	865	0.004	3	112
82	80.50	131	848	0.004	3	113
81	79.50	131	830	0.003	3	113
80	78.50	132	813	0.003	3	114
79	77.50	133	796	0.003	3	114
78	76.50	133	779	0.003	3	115
77	75.50	134	762	0.003	3	115
76	74.50	134	746	0.003	3	116
75	73.50	135	729	0.003	3	116
74	72.50	136	712	0.003	3	117
73	71.50	136	696	0.003	3	117
72	70.50	137	680	0.003	3	118
71	69.50	137	663	0.003	3	119
70	68.50	138	647	0.003	3	119
69	67.50	139	631	0.003	2	120
68	66.50	139	615	0.003	2	120
67	65.50	140		0.003	2	121
66	64.50	140	599 584			121
65	63.50	140		0.002 0.002	2	121
64			568		2	
	62.50	141	553	0.002	2	122
63	61.50	142	537	0.002	2 2	123
62	60.50	143	522	0.002	2	123
61	59.50	143	507	0.002	2 2 2	124
60	58.50	144	492	0.002	2	124
59	57.50	144	478	0.002	2	125
58	56.50	145	463	0.002	2	125
57	55.50	146	449	0.002	2	126
56	54.50	146	434	0.002	2 2	126
55	53.50	147	420	0.002	2	127
54	52.50	147	406	0.002	2	127
53	51.50	148	393	0.002	2	128
52	50.50	149	379	0.002	- 1	128
51	49.50	149	366	0.002	1	129
50	48.50	150	352	0.001	, 1	129
49	47.50	150	332	0.001	1	130
48	46.50	150	339	0.001	1	130
47	45.50	152	320 314	0.001	1	130
	45.50	152	314	0.001	I	131

Site	Number:	302496
	Number.	002-00

AT&T MOBILITY

Site Name:

Customer:

Code: ANSI/TIA-222-G

 $\ensuremath{\textcircled{\text{\circ}}}$ 2007 - 2018 by ATC IP LLC. All rights reserved.

Clch - Colchester, CT Enginee

Engineering Number: OAA735982_C3_01

7/2/2018 6:10:54 PM

			,			
46	44.88	38	76	0.000	0	33
45	44.38	132	260	0.001	1	114
44	43.50	176	334	0.001	1	152
43	42.50	177	320	0.001	1	153
42	41.50	178	306	0.001	1	153
41	40.50	179	293	0.001	1	154
40	39.50	179	280	0.001	1	155
39	38.50	180	267	0.001	1	155
38	37.50	181	254	0.001	1	156
37	36.50	181	234 242	0.001	1	156
36	35.50	182		0.001	1	150
35	34.50	183	229	0.001	1	158
34	33.50	183	217	0.001	1	158
			206			
33	32.50	184	194	0.001	1	159
32	31.50	185	183	0.001	1	159
31	30.50	185	173	0.001	1	160
30	29.50	186	162	0.001	1	161
29	28.50	187	152	0.001	1	161
28	27.50	188	142	0.001	1	162
27	26.50	188	132	0.001	1	162
26	25.50	189	123	0.001	0	163
25	24.50	190	114	0.000	0	164
24	23.50	190	105	0.000	0	164
23	22.50	191	97	0.000	0	165
22	21.50	192	89	0.000	ō	165
21	20.50	192	81	0.000	ŏ	166
20	19.50	193	73	0.000	0	167
19	18.50	194		0.000	ŏ	167
18	17.50	194	66			168
17	16.50	194	60	0.000	0 0	168
16	10.50		53	0.000		169
15	15.50	196	47	0.000	0	170
	14.50	197	41	0.000	0	
14	13.50	197	36	0.000	0	170
13	12.50	198	31	0.000	0	171
12	11.50	199	26	0.000	0	171
11	10.50	199	22	0.000	0	172
10	9.50	200	18	0.000	0	173
9	8.50	201	15	0.000	0	173
8	7.50	201	11	0.000	0	174
7	6.50	202	9	0.000	0	174
6	5.50	203	6	0.000	0	175
5	4.50	203	4	0.000	0	176
4	3.50	204	3	0.000	0	176
3	2.50	205	1	0.000	0	173
2	1.50	206	0	0.000	0	17
1	0.50	206	Ő	0.000	ő	17
Kaelus DBC0061F1V51-	180.00	76		0.010	10	66
Raycap DC6-48-60-18-	180.00		2,479			17
Powerwave LGP17201	180.00	20 186	648	0.003	3	16
Ericsson RRUS-11 800			6,026	0.025	23	
	180.00	162	5,249	0.022	20	14
Ericsson RRUS 32 B2	180.00	159	5,152	0.022	20	13
KMW AM-X-CD-14-65-00	180.00	36	1,179	0.005	5	3
Powerwave 7770.00	180.00	105	3,402	0.014	13	9
Quintel QS46512-2	180.00	104	3,370	0.014	13	9
Andrew SBNH-1D6565C	180.00	132	4,283	0.018	17	11
CCI TPA-65R-LCUUUU-H	180.00	163	5,288	0.022	20	14
	180.00	2,000		0.272	251	1,726
Round Platform w/ Ha	160.00	2,000	64,800	0.272	231	1,720

Site Number: 302	2496	Code: ANSI/TIA-222-G	© 2007 - 2018 by ATC IP LLC. All rights reserved.
Site Name: Clo	ch - Colchester, CT	Engineering Number: OAA735982_C3_01	7/2/2018 6:10:54 PM
Customer: AT	&T MOBILITY		

 ϵ

Site Name: Clch - Colchester, CT

Code: ANSI/TIA-222-G Engineering Number: OAA735982_C3_01 © 2007 - 2018 by ATC IP LLC. All rights reserved. 7/2/2018 6:10:54 PM

Customer: AT&T MOBILITY

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

Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips) (i	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	-29.02 -28.76	-0.92 -0.92	0.00 0.00	-146.64 -145.72	0.00 0.00	146.64 145.72		8 2,086.94 0 2,082.15			0.00	0.00	0.049 0.049
2.00	-28.51	-0.93	0.00	-144.80	0.00	144.80		7 2,077.34			0.00	-0.01	0.049
3.00	-28.26	-0.93	0.00	-143.87	0.00	143.87		2 2,072.51			0.00	-0.01	0.049
4.00 5.00	-28.01 -27.75	-0.93 -0.93	0.00 0.00	-142.95 -142.02	0.00 0.00	142.95 142.02		2 2,067.66 0 2,062.80			0.01 0.01	-0.01 -0.02	0.049 0.048
6.00	-27.50	-0.93	0.00	-141.02	0.00	142.02		3 2,057.92			0.01	-0.02	0.048
7.00	-27.26	-0.93	0.00	-140.16	0.00	140.16	4,106.0	3 2,053.02	6,802.59	3,359.54	0.02	-0.02	0.048
8.00	-27.01	-0.93	0.00	-139.22	0.00	139.22	-	0 2,048.10	•	-	0.02	-0.03	0.048
9.00 10.00	-26.76 -26.51	-0.94 -0.94	0.00 0.00	-138.29 -137.35	0.00 0.00	138.29 137.35		3 2,043.16 2 2,038.21			0.03 0.04	-0.03 -0.03	0.048 0.048
11.00	-26.27	-0.94	0.00	-136.41	0.00	136.41	•	8 2,033.24	•	•	0.04	-0.04	0.048
12.00	-26.02	-0.94	0.00	-135.48	0.00	135.48	4,056.5	1 2,028.25	6,598.58	3,258.79	0.05	-0.04	0.048
13.00 14.00	-25.78	-0.94	0.00	-134.54	0.00	134.54		9 2,023.25			0.06	-0.04	0.048
15.00	-25.54 -25.29	-0.94 -0.94	0.00 0.00	-133.59 -132.65	0.00 0.00	133.59 132.65		5 2,018.22 6 2,013.18			0.07 0.08	-0.05 -0.05	0.048 0.048
16.00	-25.05	-0.94	0.00	-131.71	0.00	131.71		5 2,008.12			0.09	-0.05	0.048
17.00	-24.81	-0.95	0.00	-130.76	0.00	130.76		9 2,003.05			0.10	-0.06	0.048
18.00 19.00	-24.57 -24.33	-0.95 -0.95	0.00 0.00	-129.82 -128.87	0.00 0.00	129.82 128.87		1 1,997.95			0.11 0.13	-0.06 -0.06	0.048 0.047
20.00	-24.09	-0.95	0.00	-127.92	0.00	120.07		8 1,992.84 2 1,987.71			0.13	-0.00	0.047
21.00	-23.86	-0.95	0.00	-126.97	0.00	126.97	3,965.1	3 1,982.56	6,235.36	3,079.41	0.16	-0.07	0.047
22.00	-23.62	-0.95	0.00	-126.02	0.00	126.02		8 1,977.24				-0.08	0.047
23.00 24.00	-23.39 -23.15	-0.95 -0.95	0.00 0.00	-125.07 -124.12	0.00 0.00	125.07 124.12		7 1,969.74 6 1,962.23			0.19 0.21	-0.08 -0.08	0.047 0.047
25.00	-22.92	-0.95	0.00	-123.17	0.00	123.17		5 1,954.73				-0.09	0.047
26.00	-22.68	-0.95	0.00	-122.22	0.00	122.22		5 1,947.22				-0.09	0.047
27.00 28.00	-22.45 -22.22	-0.95	0.00	-121.27	0.00	121.27		4 1,939.72				-0.09	0.047
28.00	-22.22	-0.95 -0.95	0.00 0.00	-120.31 -119.36	0.00 0.00	120.31 119.36		3 1,932.22 2 1,924.71				-0.10 -0.10	0.047 0.047
30.00	-21.76	-0.95	0.00	-118.40	0.00	118.40		1 1,917.21				-0.10	0.047
31.00	-21.53	-0.95	0.00	-117.45	0.00	117.45		1 1,909.70				-0.11	0.047
32.00 33.00	-21.30 -21.08	-0.96 -0.96	0.00 0.00	-116.50 -115.54	0.00	116.50 115.54		0 1,902.20				-0.11	0.047 0.047
34.00	-20.85	-0.96	0.00	-115.54	0.00 0.00	115.54		9 1,894.70 8 1,887.19				-0.12 -0.12	0.047
35.00	-20.63	-0.96	0.00	-113.63	0.00	113.63		7 1,879.69				-0.12	0.047
36.00	-20.40	-0.96	0.00	-112.67	0.00	112.67		7 1,872.18				-0.13	0.047
37.00 38.00	-20.18 -19.96	-0.96 -0.95	0.00 0.00	-111.72 -110.76	0.00 0.00	111.72 110.76		6 1,864.68 5 1,857.18	-	-		-0.13 -0.13	0.046 0.046
39.00	-19.73	-0.95	0.00	-109.81	0.00	109.81		4 1,849.67				-0.14	0.046
40.00	-19.51	-0.95	0.00	-108.86	0.00	108.86	3,684.3	3 1,842.17	5,372.89	2,653.47	0.58	-0.14	0.046
41.00	-19.29	-0.95	0.00	-107.90	0.00	107.90		3 1,834.66				-0.15	0.046
42.00 43.00	-19.07 -18.86	-0.95 -0.95	0.00 0.00	-106.95 -105.99	0.00 0.00	106.95 105.99		2 1,827.16 1 1,819.66				-0.15 -0.15	0.046 0.046
44.00	-18.69	-0.95	0.00	-105.04	0.00	105.04		0 1,812.15				-0.16	0.046
44.75	-18.65	-0.95	0.00	-104.33	0.00	104.33	3,613.0	5 1,806.52	5,165.74	2,551.17	0.73		0.046
44.75 45.00	-18.65 -18.46	-0.95 -0.95	0.00 0.00	-104.33 -104.09	0.00 0.00	104.33 104.09		3 1,518.66				-0.16 -0.16	0.055 0.055
46.00	-18.27	-0.95	0.00	-104.09	0.00	104.09		4 1,517.62 9 1,513.44				-0.18	0.055
47.00	-18.09	-0.95	0.00	-102.19	0.00	102.19	3,018.5	0 1,509.25	4,290.37	2,118.85	0.81	-0.17	0.054
48.00	-17.90	-0.95	0.00	-101.24	0.00	101.24		8 1,505.04					0.054
49.00 50.00	-17.72 -17.53	-0.95 -0.95	0.00 0.00	-100.29 -99.34	0.00 0.00	100.29 99.34		2 1,500.81 2 1,496.56					0.054 0.054
51.00	-17.35	-0.95	0.00	-98.39	0.00	98.39		9 1,490.30					0.054
52.00	-17.17	-0.95	0.00	-97.44	0.00	97.44	2,976.0	2 1,488.01	4,140.52	2,044.85	1.00	-0.19	0.053
53.00	-16.98	-0.95	0.00	-96.49	0.00	96.49	2,967.4	2 1,483.71	4,110.71	2,030.13	1.04	-0.20	0.053

Site	Number:	302496
	nu anno an	002400

 $\ensuremath{^\circ}$ 2007 - 2018 by ATC IP LLC. All rights reserved.

Site Name: Clch - Colchester, CT

Engineering Number: OAA735982_C3_01

7/2/2018 6:10:54 PM

Customer:	AT&T MOBIL		Engin	eering Number:	UAA735962_C3_01	11212010	0:10:54 PM
54.00 -1 55.00 -1 56.00 -1 57.00 -1 58.00 -1 59.00 -1 60.00 -1	6.80 -0.95 6.62 -0.94 6.44 -0.94 6.27 -0.94 6.09 -0.94 5.91 -0.94 5.73 -0.94 5.56 -0.94	0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 -	95.54 0.00 94.60 0.00 93.65 0.00 92.71 0.00 91.77 0.00 90.83 0.00 89.89 0.00 88.95 0.00	94.60 93.65 92.71 91.77 90.83 89.89	2,958.79 1,479.39 4,080.96 2,015.43 2,950.11 1,475.06 4,051.26 2,000.76 2,941.41 1,470.70 4,021.62 1,986.12 2,932.66 1,466.33 3,992.03 1,971.51 2,923.89 1,461.94 3,962.50 1,956.93 2,915.07 1,457.54 3,933.03 1,942.37 2,906.28 1,453.14 3,903.69 1,927.89 2,802.42 1,446.71 2,960.03 1,010.76	1.13 -0 1.17 -0 1.22 -0 1.26 -0 1.31 -0 1.36 -0	.20 0.053 .21 0.053 .22 0.053 .22 0.053 .22 0.052 .23 0.052 .23 0.052 .24 0.052
62.00 -1 63.00 -1 64.00 -1 65.00 -1 66.00 -1 67.00 -1 68.00 -1 69.00 -1	5.38 -0.94 5.21 -0.93 5.03 -0.93 4.86 -0.93 4.69 -0.93 4.52 -0.93 4.35 -0.92 4.18 -0.92 4.18 -0.92	0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 -	88.01 0.00 88.01 0.00 87.08 0.00 85.21 0.00 84.28 0.00 83.35 0.00 82.43 0.00 82.43 0.00 81.50 0.00 80.58 0.00	88.01 87.08 86.14 85.21 84.28 83.35 82.43 81.50	2,893.42 1,446.71 3,869.02 1,910.76 2,880.56 1,440.28 3,834.50 1,893.71 2,867.69 1,433.85 3,800.13 1,876.74 2,854.83 1,427.41 3,765.92 1,859.84 2,841.96 1,420.98 3,731.86 1,843.02 2,829.10 1,414.55 3,697.96 1,826.28 2,816.24 1,408.12 3,664.21 1,809.61 2,803.37 1,401.69 3,630.61 1,793.02 2,790.51 1,395.25 3,597.18 1,776.51 2,777.64 1,388.82 3,563.89 1,760.07	1.46 -0 1.51 -0 1.56 -0 1.61 -0 1.67 -0 1.72 -0 1.78 -0 1.83 -0	.24 0.052 .24 0.052 .25 0.052 .26 0.051 .26 0.051 .26 0.051 .26 0.051 .26 0.051 .27 0.051 .27 0.051 .27 0.051 .28 0.051
72.00 -1 73.00 -1 74.00 -1 75.00 -1 76.00 -1 77.00 -1 78.00 -1 79.00 -1	3.84 -0.92 3.67 -0.91 3.51 -0.91 3.34 -0.91 3.01 -0.90 2.84 -0.90 2.68 -0.90 2.68 -0.90 2.52 -0.90 2.36 -0.90 2.36 -0.90	0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 -	79.66 0.00 78.74 0.00 77.83 0.00 76.92 0.00 76.01 0.00 75.10 0.00 74.20 0.00 73.29 0.00 72.40 0.00 71.50 0.00	78.74 77.83 76.92 76.01 75.10 74.20 73.29 72.40	2,764.78 1,382.39 3,530.76 1,743.71 2,751.92 1,375.96 3,497.79 1,727.43 2,739.05 1,369.53 3,464.97 1,711.22 2,726.19 1,363.09 3,432.30 1,695.08 2,713.32 1,356.66 3,399.79 1,679.03 2,700.46 1,350.23 3,367.44 1,663.05 2,687.60 1,343.80 3,335.24 1,647.15 2,674.73 1,337.37 3,303.19 1,631.32 2,661.87 1,330.93 3,271.30 1,615.57 2,649.00 1,324.50 3,239.56 1,599.90	1.95 -0 2.01 -0 2.07 -0 2.13 -0 2.20 -0 2.26 -0 2.33 -0 2.39 -0 2.46 -0	0.28 0.051 0.29 0.051 0.29 0.050 0.30 0.050 0.31 0.050 0.31 0.050 0.32 0.050 0.33 0.049
81.00 -1. 82.00 -1. 83.00 -1 84.00 -1 85.00 -1 85.75 -1 85.75 -1 86.00 -1 87.00 -1	2.20 -0.89 2.04 -0.89 1.88 -0.88 1.72 -0.88 1.60 -0.88 1.57 -0.88 1.57 -0.88 1.57 -0.88 1.57 -0.88 1.57 -0.88 1.57 -0.88 1.35 -0.87	0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 -	70.61 0.00 69.72 0.00 68.83 0.00 67.95 0.00 67.07 0.00 66.42 0.00 66.42 0.00 66.20 0.00 65.32 0.00	70.61 69.72 68.83 67.95 67.07 66.42 66.42 66.42 66.20 65.32	2,636.14 1,318.07 3,207.98 1,584.30 2,623.28 1,311.64 3,176.55 1,568.78 2,610.41 1,305.21 3,145.28 1,553.33 2,597.55 1,298.77 3,114.16 1,537.97 2,584.68 1,292.34 3,083.20 1,522.68 2,575.04 1,287.52 3,060.08 1,511.26 1,544.73 772.37 1,851.60 914.44 1,543.70 771.85 1,848.04 912.68 1,539.55 769.77 1,833.81 905.65	2.60 -0 2.67 -0 2.74 -0 2.81 -0 2.89 -0 2.94 -0 2.94 -0 2.96 -0 3.04 -0	0.33 0.049 0.34 0.049 0.34 0.049 0.35 0.049 0.35 0.049 0.35 0.049 0.36 0.048 0.36 0.080 0.36 0.080 0.37 0.080
89.00 -1 90.00 -1 91.00 -10 92.00 -10 93.00 -10 94.00 -10 95.00 -10 96.00 -10 97.00 -10	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 -	64.45 0.00 63.58 0.00 62.71 0.00 61.85 0.00 60.98 0.00 60.12 0.00 59.26 0.00 58.40 0.00 57.55 0.00 56.70 0.00	63.58 62.71 61.85 60.98 60.12 59.26 58.40 57.55 56.70	1,535.36767.681,819.59898.631,531.13765.571,805.38891.611,526.87763.441,791.17884.591,522.58761.291,776.98877.581,518.25759.121,762.79870.581,513.88756.941,748.62863.581,505.04752.521,720.31849.601,500.57750.291,706.18842.621,496.06748.031,692.06835.64	3.19 -0 3.27 -0 3.36 -0 3.44 -0 3.52 -0 3.61 -0 3.70 -0 3.79 -0 3.88 -0	0.37 0.079 0.38 0.079 0.39 0.078 0.40 0.078 0.41 0.077 0.42 0.076 0.43 0.075 0.44 0.075
99.00 -10 100.00 -5 101.00 -5 102.00 -5 103.00 -5 104.00 -5 105.00 -5 106.00 -5	0.19 -0.85 0.09 -0.84 9.99 -0.84 9.88 -0.84 9.78 -0.84 9.68 -0.83 9.58 -0.83 9.58 -0.83 9.58 -0.83 9.58 -0.83 9.58 -0.83 9.28 -0.82	0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 -	55.85 0.00 55.00 0.00 54.15 0.00 53.31 0.00 52.47 0.00 51.64 0.00 50.80 0.00 49.97 0.00 49.15 0.00 48.32 0.00	55.00 54.15 53.31 52.47 51.64 50.80 49.97 49.15	1,491.52745.761,677.95828.681,486.94743.471,663.86821.721,482.33741.161,649.78814.771,477.68738.841,635.72807.821,473.00736.501,621.68800.891,468.28734.141,607.66793.961,463.52731.761,593.65787.041,458.73729.371,579.66780.141,453.91726.951,565.69773.241,449.04724.521,551.74766.35	4.07 -0 4.17 -0 4.26 -0 4.36 -0 4.46 -0 4.57 -0 4.67 -0 4.78 -0	0.45 0.074 0.46 0.074 0.46 0.073 0.47 0.073 0.48 0.072 0.49 0.072 0.49 0.071 0.50 0.071 0.51 0.070 0.52 0.069
108.00 -5 109.00 -5 110.00 -4 111.00 -4 112.00 -4 113.00 -5 114.00 -5	9.19 -0.82 9.09 -0.81 3.99 -0.81 3.89 -0.81 3.80 -0.80 3.70 -0.80 3.61 -0.80 3.51 -0.79	0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 -	47.50 0.00 46.68 0.00 45.87 0.00 45.06 0.00 44.25 0.00 43.45 0.00 42.65 0.00 41.85 0.00	47.50 46.68 45.87 45.06 44.25 43.45 42.65	1,444.15722.071,537.82759.471,439.21719.611,523.91752.601,434.25717.121,510.03745.751,429.24714.621,496.17738.901,424.21712.101,482.33732.071,419.13709.571,468.51725.241,414.02707.011,454.73718.431,408.88704.441,440.96711.64	4.99 -0 5.10 -0 5.22 -0 5.33 -0 5.45 -0 5.56 -0 5.68 -0	0.52 0.069 0.53 0.068 0.54 0.068 0.55 0.067 0.55 0.067 0.56 0.066 0.57 0.065 0.58 0.065

	r: 3024						: ANSI/TIA-22		© 2007 - 1	2018 by AT		-	
Site Name:		- Colche			Enginee	ring Numbe	r: OAA735982	2_C3_01			7/2/2	018 6:10	:54 PM
Customer:	A1&	T MOBIL	IIY									<u></u>	
	-8.42	-0.79	0.00	-41.06	0.00	41.06	1,403.70		1,427.22	704.85	5.92	-0.58	0.064
	-8.32 -8.23	-0.78 -0.78	0.00 0.00	-40.27 -39.49	0.00 0.00	40.27 39.49	1,398.48 1,393.23		1,413.51	698.08 691.32	6.05 6.17	-0.59 -0.60	0.064 0.063
	-8.14	-0.78	0.00	-39.49	0.00	39.49	1,393.23		1,399.83 1,386.17	684.58	6.30	-0.60	0.063
	-8.05	-0.77	0.00	-37.93	0.00	37.93	1,382.63		1,372.54	677.85	6.42	-0.61	0.062
	-7.95	-0.77	0.00	-37.16	0.00	37.16	1,377.27		1,358.94	671.13	6.55	-0.62	0.061
	-7.86	-0.76	0.00	-36.39	0.00	36.39	1,371.88	685.94	1,345.37	664.43	6.68	-0.63	0.060
	-7.77	-0.76	0.00	-35.62	0.00	35.62	1,366.45		1,331.83	657.74	6.82	-0.64	0.060
	-7.68	-0.76	0.00	-34.86	0.00	34.86	1,360.99	680.49	1,318.33	651.07	6.95	-0.64	0.059
	-7.64	-0.75	0.00	-34.11	0.00	34.11	1,355.49		1,304.85	644.42	7.09	-0.65	0.059
	-7.60 -7.60	-0.75 -0.75	0.00 0.00	-33.73 -33.73	0.00 0.00	33.73 33.73	1,352.73 1,127.00		1,298.12 1,084.41	641.09 535.55	7.16 7.16	-0.65 -0.65	0.058 0.070
	-7.52	-0.75	0.00	-33.36	0.00	33.36	1,124.94		1,079.04	532.90	7.22	-0.66	0.069
	-7.44	-0.73	0.00	-32.61	0.00	32.61	1,120.78		1,068.31	527.60	7.36	-0.67	0.068
	-7.36	-0.74	0.00	-31.86	0.00	31.86	1,116.59		1,057.61	522.31	7.50	-0.67	0.068
	-7.28	-0.74	0.00	-31.12	0.00	31.12	1,112.36		1,046.91	517.03	7.65	-0.68	0.067
	-7.20	-0.73	0.00	-30.39	0.00	30.39	1,108.10	554.05	1,036.24	511.76	7.79	-0.69	0.066
	-7.12	-0.73	0.00	-29.66	0.00	29.66	1,103.80		1,025.58	506.50	7.94	-0.70	0.065
	-7.05	-0.72	0.00	-28.93	0.00	28.93	1,099.47		1,014.94	501.24	8.08	-0.71	0.064
	-6.97	-0.72	0.00	-28.21	0.00	28.21	1,095.10	547.55	1,004.33	496.00	8.23	-0.72	0.063
	-6.89 -6.82	-0.71 -0.71	0.00 0.00	-27.49 -26.77	0.00	27.49 26.77	1,090.69 1,086.26	545.35 543.13	993.73 983.15	490.77 485.54	8.38 8.54	-0.72 -0.73	0.062 0.061
	-6.74	-0.71	0.00	-26.77	0.00 0.00	26.06	1,080.28	540.89	963.15 972.60	480.33	8.69	-0.73	0.060
	-6.67	-0.70	0.00	-25.36	0.00	25.36	1,077.27	538.64	962.07	475.13	8.84	-0.75	0.060
	-6.59	-0.70	0.00	-24.66	0.00	24.66	1,072.73	536.36	951.56	469.94	9.00	-0.75	0.059
	-6.52	-0.69	0.00	-23.96	0.00	23.96	1,068.14	534.07	941.07	464.76	9.16	-0.76	0.058
140.00	-6.45	-0.69	0.00	-23.27	0.00	23.27	1,063.53	531.76	930.61	459.59	9.32	-0.77	0.057
	-6.37	-0.68	0.00	-22.58	0.00	22.58	1,058.88	529.44	920.17	454.44	9.48	-0.78	0.056
	-6.30	-0.68	0.00	-21.90	0.00	21.90	1,054.19	527.09	909.76	449.30	9.65	-0.79	0.055
	-6.23	-0.67	0.00	-21.22	0.00	21.22	1,049.47	524.73	899.37	444.17	9.81	-0.79	0.054
	-6.16	-0.67	0.00	-20.54	0.00	20.54	1,044.71	522.35	889.01	439.05	9.98	-0.80	0.053
	-6.08	-0.66	0.00	-19.88	0.00	19.88	1,039.92	519.96	878.68	433.95	10.15	-0.81	0.052
140187	-6.01	-0.66 -0.65	0.00 0.00	-19.21 -18.55	0.00 0.00	19.21 18.55	1,035.09 1,030.22	517.54 515.11	868.38 858.10	428.86 423.79	10.32 10.49	-0.81 -0.82	0.051 0.050

131.00	-7.12	-0.73	0.00	-29.66	0.00	29.66	1,103.80	551.90	1,025.58	506.50	7.94	-0.70	0.065
132.00	-7.05	-0.72	0.00	-28.93	0.00	28.93	1,099.47	549.73	1,014.94	501.24	8.08	-0.71	0.064
133.00	-6.97	-0.72	0.00	-28.21	0.00	28.21	1,095.10	547.55	1,004.33	496.00	8.23	-0.72	0.063
134.00	-6.89	-0.71	0.00	-27.49	0.00	27.49	1,090.69	545.35	993.73	490.77	8.38	-0.72	0.062
135.00	-6.82	-0.71	0.00	-26.77	0.00	26.77	1,086.26	543.13	983.15	485.54	8.54	-0.73	0.061
136.00	-6.74	-0.71	0.00	-26.06	0.00	26.06	1,081.78	540.89	972.60	480.33	8.69	-0.74	0.060
137.00	-6.67	-0.70	0.00	-25.36	0.00	25.36	1.077.27	538.64	962.07	475.13	8.84	-0.75	0.060
138.00	-6.59	-0.70	0.00	-24.66	0.00	24.66	1,072.73	536.36	951.56	469.94	9.00	-0.75	0.059
139.00	-6.52	-0.69	0.00	-23.96	0.00	23.96	1,068.14	534.07	941.07	464.76	9.16	-0.76	0.058
140.00	-6.45	-0.69	0.00	-23.27	0.00	23.27	1,063.53	531.76	930.61	459.59	9.32	-0.77	0.057
141.00	-6.37	-0.68	0.00	-22.58	0.00	22.58	1,058.88	529.44	920.17	454.44	9.48	-0.78	0.056
142.00	-6.30	-0.68	0.00	-22.56	0.00	22.58	1,058.88	529.44	920.17	454.44	9.40	-0.78	0.055
143.00	-6.23	-0.67	0.00	-21.90	0.00	21.90	1,049.47	524.73	909.70 899.37	449.30	9.81	-0.79	0.054
143.00	-6.16	-0.67	0.00	-21.22		21.22					9.01	-0.79	0.054
					0.00		1,044.71	522.35	889.01	439.05			
145.00	-6.08	-0.66	0.00	-19.88	0.00	19.88	1,039.92		878.68	433.95	10.15	-0.81	0.052
146.00	-6.01	-0.66	0.00	-19.21	0.00	19.21	1,035.09	517.54	868.38	428.86	10.32	-0.81	0.051
147.00	-5.94	-0.65	0.00	-18.55	0.00	18.55	1,030.22		858.10	423.79	10.49	-0.82	0.050
148.00	-5.87	-0.65	0.00	-17.90	0.00	17.90	1,025.32	512.66	847.86	418.72	10.66	-0.83	0.048
149.00	-5.80	-0.64	0.00	-17.25	0.00	17.25	1,020.39	510.19	837.64	413.68	10.84	-0.84	0.047
150.00	-5.73	-0.64	0.00	-16.61	0.00	16.61	1,015.42	507.71	827.46	408.65	11.01	-0.84	0.046
151.00	-5.66	-0.63	0.00	-15.97	0.00	15.97	1,010.41	505.21	817.30	403.63	11.19	-0.85	0.045
152.00	-5.60	-0.63	0.00	-15.34	0.00	15.34	1,005.37	502.69	807.18	398.64	11.37	-0.86	0.044
153.00	-5.53	-0.62	0.00	-14.71	0.00	14.71	1,000.30	500.15	797.09	393.65	11.55	-0.86	0.043
154.00	-5.46	-0.62	0.00	-14.09	0.00	14.09	995.19	497.59	787.03	388.69	11.73	-0.87	0.042
155.00	-5.39	-0.61	0.00	-13.48	0.00	13.48	990.04	495.02	777.01	383.74	11.91	-0.87	0.041
156.00	-5.33	-0.61	0.00	-12.87	0.00	12.87	983.06	491.53	765.62	378.11	12.10	-0.88	0.039
157.00	-5.26	-0.60	0.00	-12.26	0.00	12.26	975.56	487.78	753.91	372.33	12.28	-0.89	0.038
158.00	-5.19	-0.59	0.00	-11.66	0.00	11.66	968.05	484.03	742.29	366.59	12.47	-0.89	0.037
159.00	-5.13	-0.59	0.00	-11.07	0.00	11.07	960.55	480.27	730.76	360.90	12.65	-0.90	0.036
160.00	-5.06	-0.58	0.00	-10.48	0.00	10.48	953.04	476.52	719.32	355.25	12.84	-0.90	0.035
161.00	-5.00	-0.58	0.00	-9.90	0.00	9.90	945.54	472.77	707.97	349.64	13.03	-0.91	0.034
162.00	-4.93	-0.57	0.00	-9.32	0.00	9.32	938.04	469.02	696.71	344.08	13.22	-0.91	0.032
163.00	-4.87	-0.56	0.00	-8.75	0.00	8.75	930.53	465.27	685.54	338.56	13.41	-0.92	0.031
164.00	-4.81	-0.56	0.00	-8.19	0.00	8.19	923.03	461.51	674.47	333.09	13.61	-0.92	0.030
165.00	-4.74	-0.55	0.00	-7.63	0.00	7.63	915.52	457.76	663.48	327.67	13.80	-0.93	0.028
166.00	-4.68	-0.55	0.00	-7.08	0.00	7.08	908.02	454.01	652.58	322.29	14.00	-0.93	0.027
167.00	-4.62	-0.53	0.00	-6.53	0.00	6.53	900.52	450.26	641.77	316.95	14.19	-0.94	0.026
168.00	-4.56	-0.54	0.00	-5.99	0.00	5.99	893.01	450.26	631.06	311.65	14.19	-0.94	0.020
169.00	-4.50	-0.53	0.00	-5.45		5.45		440.51	620.43	306.41	14.59	-0.94	0.024
170.00					0.00		885.51						0.023
	-4.44	-0.52	0.00	-4.93	0.00	4.93	878.00	439.00	609.89	301.20	14.78	-0.95	
171.00	-4.38	-0.52	0.00	-4.40	0.00	4.40	870.50	435.25	599.45	296.04	14.98	-0.95	0.020
172.00	-4.32	-0.51	0.00	-3.89	0.00	3.89	863.00	431.50	589.09	290.93	15.18	-0.95	0.018
173.00	-4.26	-0.50	0.00	-3.38	0.00	3.38	855.49	427.75	578.82	285.86	15.38	-0.95	0.017
174.00	-4.20	-0.50	0.00	-2.88	0.00	2.88	847.99	423.99	568.65	280.83	15.58	-0.96	0.015
175.00	-4.14	-0.49	0.00	-2.38	0.00	2.38	840.48	420.24	558.56	275.85	15.78	-0.96	0.014
176.00	-4.08	-0.48	0.00	-1.89	0.00	1.89	832.98	416.49	548.57	270.92	15.98	-0.96	0.012
177.00	-4.02	-0.48	0.00	-1.41	0.00	1.41	825.48	412.74	538.66	266.02	16.18	-0.96	0.010

Site Number: 302496 Site Name: Clch - Colchester, CT Customer: AT&T MOBILITY					Code: ANSI/TIA-222-G Engineering Number: OAA735982_C3_01				© 2007 - 2018 by ATC IP LLC. All rights reserved. 7/2/2018 6:10:54 PM				
178.00	-3.97	-0.47	0.00	-0.93	0.00	0.93	817.97	408.99	528.85	261.18	16.38	-0.96	0.008
179.00	-3.91	-0.46	0.00	-0.46	0.00	0.46	810.47	405.23	519.12	256.38	16.58	-0.96	0.007
180.00	0.00	0.00	0.00	0.00	0.00	0.00	802.96	401.48	509.49	251.62	16.79	-0.96	0.000
180.58	0.00	0.00	0.00	0.00	0.00	0.00	798.59	399.29	503.91	248.86	16.90	-0.96	0.000

Code: ANSI/TIA-222-G

© 2007 - 2018 by ATC IP LLC. All rights reserved. 7/2/2018 6:10:54 PM

Site Name: Clch - Colchester, CT Customer: AT&T MOBILITY Engineering Number: OAA735982_C3_01

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

Calculated Forces

Seg Elev	Pu EX (.)	Vu FX (-)	Tu MY	Mu MZ	Mu MX	Resultant Moment	phi Pn	phi Vn	phi Tn	phi Mn	Total	Rotation	
(ft)	(kips)	(kips)	(ft-kips)	(ft-kips) ((ft-kips)	(kips)	(kips)		(ft-kips)	(in)	(deg)	Ratio
0.00	-20.25	-0.92		-142.72	0.00	142.72		2,086.94			0.00	0.00	0.046
1.00 2.00	-20.07 -19.89	-0.92 -0.92		-141.80 -140.88	0.00 0.00	141.80 140.88		2,082.15 2,077.34			0.00 0.00	0.00 -0.01	0.046 0.045
3.00	-19.72	-0.92		-139.95	0.00	139.95		2,072.51			0.00	-0.01	0.045
4.00	-19.54	-0.93		-139.03	0.00	139.03		2,067.66			0.01	-0.01	0.045
5.00 6.00	-19.37 -19.19	-0.93 -0.93	0.00 0.00	-138.10 -137.18	0.00	138.10		2,062.80 2,057.92			0.01 0.01	-0.02 -0.02	0.045 0.045
7.00	-19.19	-0.93	0.00	-137.16	0.00 0.00	137.18 136.25	•	2,057.92			0.01	-0.02	0.045
8.00	-18.85	-0.93	0.00	-135.32	0.00	135.32		2,048.10			0.02	-0.03	0.045
9.00	-18.67	-0.93	0.00	-134.39	0.00	134.39	•	2,043.16			0.03	-0.03	0.045
10.00 11.00	-18.50 -18.33	-0.93 -0.93		-133.46 -132.53	0.00 0.00	133.46 132.53		2,038.21 2,033.24			0.03 0.04	-0.03 -0.04	0.045 0.045
12.00	-18.16	-0.93		-131.60	0.00	132.53		2,033.24			0.04	-0.04	0.045
13.00	-17.99	-0.93	0.00	-130.66	0.00	130.66	4,046.49	2,023.25	6,557.96	3,238.73	0.06	-0.04	0.045
14.00	-17.82	-0.93	0.00	-129.73	0.00	129.73		2,018.22			0.07	-0.05	0.045 0.045
15.00 16.00	-17.65 -17.48	-0.94 -0.94	0.00 0.00	-128.80 -127.86	0.00 0.00	128.80 127.86		2,013.18 2,008.12			0.08 0.09	-0.05 -0.05	0.045
17.00	-17.31	-0.94		-126.92	0.00	126.92		2,003.05			0.10	-0.06	0.045
18.00	-17.15	-0.94		-125.99	0.00	125.99		1,997.95	-		0.11	-0.06	0.044
19.00 20.00	-16.98 -16.81	-0.94 -0.94		-125.05 -124.11	0.00 0.00	125.05 124.11		1,992.84 1,987.71			0.12 0.14	-0.06 -0.07	0.044 0.044
21.00	-16.65	-0.94		-123.17	0.00	123.17		1,982.56			0.15	-0.07	0.044
22.00	-16.48	-0.94		-122.24	0.00	122.24	3,954.48	1,977.24	6,194.84	3,059.40	0.17	-0.07	0.044
23.00	-16.32	-0.94		-121.30	0.00	121.30		1,969.74			0.18	-0.08 -0.08	0.044 0.044
24.00 25.00	-16.15 -15.99	-0.94 -0.94	0.00 0.00	-120.36 -119.42	0.00 0.00	120.36 119.42		1,962.23 1,954.73			0.20 0.22	-0.08	0.044
26.00	-15.83	-0.94		-118.48	0.00	118.48		1,947.22			0.23	-0.09	0.044
27.00	-15.67	-0.94		-117.54	0.00	117.54		1,939.72			0.25	-0.09	0.044
28.00 29.00	-15.51 -15.34	-0.94 -0.94		-116.59 -115.65	0.00 0.00	116.59 115.65		1,932.22 1,924.71			0.27 0.29	-0.09 -0.10	0.044 0.044
30.00	-15.18	-0.94		-114.71	0.00	114.71		1,917.21			0.23	-0.10	0.044
31.00	-15.02	-0.94		-113.77	0.00	113.77	3,819.41	1,909.70	5,776.55	2,852.82	0.34	-0.11	0.044
32.00	-14.87	-0.94		-112.83	0.00	112.83		1,902.20				-0.11 -0.11	0.044 0.044
33.00 34.00	-14.71 -14.55	-0.94 -0.94		-111.89 -110.95	0.00 0.00	111.89 110.95		1,894.70 1,887.19			0.38 0.41	-0.11	0.044
35.00	-14.39	-0.94		-110.01	0.00	110.01		1,879.69			0.43	-0.12	0.044
36.00	-14.24	-0.94		-109.07	0.00	109.07		1,872.18			0.46	-0.12	0.044 0.044
37.00 38.00	-14.08 -13.92	-0.94 -0.94		-108.13 -107.19	0.00 0.00	108.13 107.19		1,864.68 1,857.18			0.48 0.51	-0.13 -0.13	0.044
39.00	-13.77	-0.94		-106.25	0.00	106.25		1,849.67				-0.13	0.043
40.00	-13.62	-0.94		-105.31	0.00	105.31		1,842.17					0.043
41.00	-13.46	-0.94		-104.38	0.00	104.38	,	1,834.66	•	•			0.043 0.043
42.00 43.00	-13.31 -13.16	-0.94 -0.94		-103.44 -102.50	0.00 0.00	103.44 102.50	3,654.32	1,827.16 1,819.66	5,285.17	2,610.15	0.62 0.66	-0.15 -0.15	0.043
44.00	-13.04	-0.93		-101.57	0.00	101.57		1,812.15			0.69		0.043
44.75	-13.01	-0.93		-100.87	0.00	100.87		1,806.52			0.71	-0.16	0.043
44.75 45.00	-13.01 -12.88	-0.93 -0.93		-100.87 -100.63	0.00 0.00	100.87 100.63		1,518.66 1,517.62				-0.16 -0.16	0.051 0.051
46.00	-12.75	-0.93		-99.70	0.00	99.70		1,513.44			-		0.051
47.00	-12.62	-0.93		-98.77	0.00	98.77	3,018.50	1,509.25	4,290.37	2,118.85	0.79		0.051
48.00	-12.49	-0.93		-97.83	0.00	97.83		1,505.04					0.051 0.051
49.00 50.00	-12.36 -12.23	-0.93 -0.93		-96.90 -95.97	0.00 0.00	96.90 95.97		1,500.81					0.050
51.00	-12.10	-0.93	0.00	-95.04	0.00	95.04		1,492.30			0.93	-0.18	0.050
52.00	-11.98	-0.93		-94.11	0.00	94.11		1,488.01					0.050
53.00	-11.85	-0.93	0.00	-93.19	0.00	93.19	2,967.42	1,483.71	4,110.71	2,030.13	1.01	-0.19	0.050

Site Number:	302496
--------------	--------

© 2007 - 2018 by ATC IP LLC. All rights reserved.

Site Name: Clch - Colchester, CT Engineering Number: OAA735982_C3_01

7/2/2018 6:10:54 PM

		T MOBIL			Enginee	nng Numbe	1: UAA735982_C3_01	11212		.54 Pivi
54.00 55.00 56.00	-11.72 -11.60 -11.47	-0.93 -0.92 -0.92	0.00 0.00 0.00	-92.26 -91.33 -90.41	0.00 0.00 0.00	92.26 91.33 90.41	2,958.79 1,479.39 4,080.96 2,015.43 2,950.11 1,475.06 4,051.26 2,000.76 2,941.41 1,470.70 4,021.62 1,986.12	1.05 1.09 1.14	-0.20 -0.20 -0.21	0.050 0.050 0.049
57.00	-11.35	-0.92	0.00	-89.49	0.00	89.49	2,932.66 1,466.33 3,992.03 1,971.51	1.18	-0.21	0.049
58.00 59.00	-11.22 -11.10	-0.92 -0.92	0.00 0.00	-88.56 -87.64	0.00 0.00	88.56 87.64	2,923.89 1,461.94 3,962.50 1,956.93 2,915.07 1,457.54 3,933.03 1,942.37	1.23 1.27	-0.21 -0.22	0.049 0.049
60.00	-10.98	-0.92	0.00	-86.73	0.00	86.73	2,906.28 1,453.14 3,903.69 1,927.89	1.32	-0.22	0.049
61.00 62.00	-10.85 -10.73	-0.92 -0.91	0.00 0.00	-85.81 -84.89	0.00 0.00	85.81 84.89	2,893.42 1,446.71 3,869.02 1,910.76 2,880.56 1,440.28 3,834.50 1,893.71	1.36 1.41	-0.23 -0.23	0.049 0.049
63.00	-10.61	-0.91	0.00	-83.98	0.00	83.98	2,867.69 1,433.85 3,800.13 1,876.74	1.46	-0.24	0.048
64.00 65.00	-10.49 -10.37	-0.91 -0.91	0.00 0.00	-83.07 -82.16	0.00 0.00	83.07 82.16	2,854.83 1,427.41 3,765.92 1,859.84 2,841.96 1,420.98 3,731.86 1,843.02	1.51 1.56	-0.24 -0.25	0.048 0.048
66.00	-10.25	-0.91	0.00	-81.25	0.00	81.25	2,829.10 1,414.55 3,697.96 1,826.28	1.62	-0.25	0.048
67.00 68.00	-10.13 -10.01	-0.90 -0.90	0.00 0.00	-80.35 -79.44	0.00 0.00	80.35 79.44	2,816.24 1,408.12 3,664.21 1,809.61 2,803.37 1,401.69 3,630.61 1,793.02	1.67 1.72	-0.26 -0.26	0.048 0.048
69.00	-9.89	-0.90	0.00	-78.54	0.00	78.54	2,790.51 1,395.25 3,597.18 1,776.51	1.78	-0.27	0.048
70.00 71.00	-9.77 -9.66	-0.90 -0.89	0.00 0.00	-77.64 -76.75	0.00 0.00	77.64 76.75	2,777.64 1,388.82 3,563.89 1,760.07	1.84 1.89	-0.27 -0.27	0.048 0.048
72.00	-9.54	-0.89	0.00	-75.85	0.00	75.85	2,764.78 1,382.39 3,530.76 1,743.71 2,751.92 1,375.96 3,497.79 1,727.43	1.85	-0.28	0.047
73.00 74.00	-9.42 -9.31	-0.89 -0.89	0.00 0.00	-74.96 -74.07	0.00 0.00	74.96 74.07	2,739.05 1,369.53 3,464.97 1,711.22 2,726.19 1,363.09 3,432.30 1,695.08	2.01 2.07	-0.28 -0.29	0.047 0.047
75.00	-9.19	-0.89	0.00	-73.19	0.00	73.19	2,713.32 1,356.66 3,399.79 1,679.03	2.13	-0.29	0.047
76.00 77.00	-9.08	-0.88	0.00	-72.30	0.00	72.30	2,700.46 1,350.23 3,367.44 1,663.05	2.19	-0.30	0.047 0.047
78.00	-8.96 -8.85	-0.88 -0.87	0.00 0.00	-71.42 -70.54	0.00 0.00	71.42 70.54	2,687.60 1,343.80 3,335.24 1,647.15 2,674.73 1,337.37 3,303.19 1,631.32	2.26 2.32	-0.30 -0.31	0.047
79.00	-8.73	-0.87	0.00	-69.67	0.00	69.67	2,661.87 1,330.93 3,271.30 1,615.57	2.38	-0.31	0.046
80.00 81.00	-8.62 -8.51	-0.87 -0.87	0.00 0.00	-68.80 -67.93	0.00 0.00	68.80 67.93	2,649.00 1,324.50 3,239.56 1,599.90 2,636.14 1,318.07 3,207.98 1,584.30	2.45 2.52	-0.32 -0.32	0.046 0.046
82.00	-8.40	-0.86	0.00	-67.06	0.00	67.06	2,623.28 1,311.64 3,176.55 1,568.78	2.59	-0.33	0.046
83.00 84.00	-8.29 -8.17	-0.86 -0.85	0.00 0.00	-66.20 -65.34	0.00 0.00	66.20 65.34	2,610.41 1,305.21 3,145.28 1,553.33 2,597.55 1,298.77 3,114.16 1,537.97	2.65 2.72	-0.33 -0.34	0.046 0.046
85.00	-8.09	-0.85	0.00	-64.49	0.00	64.49	2,584.68 1,292.34 3,083.20 1,522.68	2.80	-0.34	0.045
85.75 85.75	-8.07 -8.07	-0.85 -0.85	0.00 0.00	-63.85 -63.85	0.00 0.00	63.85 63.85	2,575.04 1,287.52 3,060.08 1,511.26 1,544.73 772.37 1,851.60 914.44	2.85 2.85	-0.35 -0.35	0.045 0.075
86.00	-8.00	-0.85	0.00	-63.64	0.00	63.64	1,543.70 771.85 1,848.04 912.68	2.87	-0.35	0.075
87.00 88.00	-7.92 -7.85	-0.85 -0.85	0.00 0.00	-62.79 -61.94	0.00 0.00	62.79 61.94	1,539.55 769.77 1,833.81 905.65 1,535.36 767.68 1,819.59 898.63	2.94 3.02	-0.35 -0.36	0.074 0.074
89.00	-7.77	-0.84	0.00	-61.09	0.00	61.09	1,531.13 765.57 1,805.38 891.61	3.09	-0.37	0.074
90.00 91.00	-7.70 -7.62	-0.84 -0.84	0.00 0.00	-60.25 -59.41	0.00 0.00	60.25 59.41	1,526.87 763.44 1,791.17 884.59 1,522.58 761.29 1,776.98 877.58	3.17 3.25	-0.38 -0.38	0.073 0.073
92.00	-7.55	-0.84	0.00	-58.57	0.00	58.57	1,518.25 759.12 1,762.79 870.58	3.33	-0.39	0.072
93.00 94.00	-7.47 -7.40	-0.83 -0.83	0.00 0.00	-57.74 -56.90	0.00 0.00	57.74 56.90	1,513.88 756.94 1,748.62 863.58 1,509.48 754.74 1,734.46 856.59	3.41 3.50	-0.40 -0.40	0.072 0.071
95.00	-7.33	-0.83	0.00	-56.07	0.00	56.07	1,505.04 752.52 1,720.31 849.60	3.58	-0.41	0.071
96.00 97.00	-7.25 -7.18	-0.83 -0.82	0.00 0.00	-55.24 -54.42	0.00 0.00	55.24 54.42	1,500.57 750.29 1,706.18 842.62 1,496.06 748.03 1,692.06 835.64	3.67 3.76	-0.42 -0.43	0.070 0.070
98.00	-7.11	-0.82	0.00	-53.59	0.00	53.59	1,491.52 745.76 1,677.95 828.68	3.85	-0.43	0.069
99.00 100.00	-7.04 -6.97	-0.82 -0.81	0.00 0.00	-52.77 -51.96	0.00 0.00	52.77 51.96	1,486.94 743.47 1,663.86 821.72 1,482.33 741.16 1,649.78 814.77	3.94 4.03	-0.44 -0.45	0.069 0.068
101.00	-6.90	-0.81	0.00	-51.14	0.00	51.14	1,477.68 738.84 1,635.72 807.82	4.13	-0.45	0.068
102.00 103.00	-6.83 -6.75	-0.81 -0.81	0.00 0.00	-50.33 -49.52	0.00 0.00	50.33 49.52	1,473.00 736.50 1,621.68 800.89 1,468.28 734.14 1,607.66 793.96	4.22 4.32	-0.46 -0.47	0.067 0.067
104.00	-6.68	-0.80	0.00	-48.72	0.00	48.72	1,463.52 731.76 1,593.65 787.04	4.42	-0.48	0.066
105.00 106.00	-6.62 -6.55	-0.80 -0.80	0.00 0.00	-47.91 -47.11	0.00 0.00	47.91 47.11	1,458.73 729.37 1,579.66 780.14 1,453.91 726.95 1,565.69 773.24	4.52 4.62	-0.48 -0.49	0.066 0.065
107.00	-6.48	-0.79	0.00	-46.32	0.00	46.32	1,449.04 724.52 1,551.74 766.35	4.73	-0.50	0.065
108.00 109.00	-6.41 -6.34	-0.79 -0.79	0.00 0.00	-45.52 -44.74	0.00 0.00	45.52 44.74	1,444.15 722.07 1,537.82 759.47 1,439.21 719.61 1,523.91 752.60	4.83 4.94	-0.51 -0.51	0.064 0.064
110.00	-6.27	-0.78	0.00	-43.95	0.00	43.95	1,434.25 717.12 1,510.03 745.75	5.05	-0.52	0.063
111.00 112.00	-6.20 -6.14	-0.78 -0.78	0.00 0.00	-43.17 -42.39	0.00 0.00	43.17 42.39	1,429.24 714.62 1,496.17 738.90 1,424.21 712.10 1,482.33 732.07	5.16 5.27	-0.53 -0.53	0.063 0.062
113.00	-6.14 -6.07	-0.78 -0.77	0.00	-42.39 -41.61	0.00	42.39 41.61	1,424.21 712.10 1,482.33 732.07 1,419.13 709.57 1,468.51 725.24	5.27	-0.54	0.062
114.00 115.00	-6.00 -5.94	-0.77 -0.76	0.00 0.00	-40.84 -40.07	0.00 0.00	40.84	1,414.02 707.01 1,454.73 718.43	5.49 5.61	-0.55 -0.56	0.061 0.061
115.00	-3.34	-0.70	0.00	-40.07	0.00	40.07	1,408.88 704.44 1,440.96 711.64	J.01	-0.50	0.001

Site	Number:	302496
SILE	NULLIDEL	302430

177.00

-2.81

-0.45

0.00

-1.34

0.00

Code: ANSI/TIA-222-G

© 2007 - 2018 by ATC IP LLC. All rights reserved.

Site Name: Clch - Colchester, CT

Engineering Number: OAA735982_C3_01

7/2/2018 6:10:54 PM

0.060 0.059 0.059 0.058 0.058 0.057 0.056 0.056 0.055 0.055 0.054 0.065 0.065 0.064 0.063 0.062 0.061 0.060 0.060 0.059 0.058 0.057 0.056 0.055 0.054 0.053 0.053 0.052 0.051 0.050 0.049 0.048 0.047 0.046 0.045 0.044 0.043 0.042 0.041 0.040 0.038 0.037 0.036 0.035 0.034 0.033 0.032 0.031 0.029 0.028 0.027 0.026 0.025 0.023 0.022 0.021 0.019 0.018 0.016 0.015 0.013 0.012

0.010

0.008

Site Name: Customer:		T MOBIL			Enginee	ring Numbe	er: OAA735982	_C3_01			7/2/20	018 6:10:5
116.00	-5.87	-0.76	0.00	-39.31	0.00	39.31	1,403.70	701.85	1,427.22	704.85	5.73	-0.56
117.00	-5.81	-0.76	0.00	-38.55	0.00	38.55	1,398.48	699.24	1,413.51	698.08	5.84	-0.57
118.00	-5.74	-0.75	0.00	-37.79	0.00	37.79	1,393.23		1,399.83	691.32	5.97	-0.58
119.00 120.00	-5.68 -5.61	-0.75 -0.74	0.00 0.00	-37.04 -36.30	0.00 0.00	37.04 36.30	1,387.95 1,382.63		1,386.17	684.58 677.85	6.09 6.21	-0.58 -0.59
121.00	-5.55	-0.74	0.00	-35.55	0.00	35.55	1,377.27		1,358.94	671.13	6.33	-0.60
122.00	-5.48	-0.74	0.00	-34.81	0.00	34.81	1,371.88		1,345.37	664.43	6.46	-0.61
123.00	-5.42	-0.73	0.00	-34.08	0.00	34.08	1,366.45	683.23	1,331.83	657.74	6.59	-0.61
124.00	-5.36	-0.73	0.00	-33.35	0.00	33.35	1,360.99		1,318.33	651.07	6.72	-0.62
125.00 125.50	-5.33 -5.30	-0.72 -0.72	0.00 0.00	-32.62 -32.26	0.00 0.00	32.62 32.26	1,355.49 1,352.73		1,304.85	644.42 641.09	6.85 6.91	-0.63 -0.63
125.50	-5.30	-0.72	0.00	-32.26	0.00	32.26	1,127.00		1,084.41	535.55	6.91	-0.63
126.00	-5.24	-0.72	0.00	-31.90	0.00	31.90	1,124.94	562.47	1,079.04	532.90	6.98	-0.63
127.00	-5.19	-0.71	0.00	-31.18	0.00	31.18	1,120.78		1,068.31	527.60	7.11	-0.64
128.00 129.00	-5.13 -5.08	-0.71 -0.71	0.00 0.00	-30.46 -29.75	0.00 0.00	30.46	1,116.59		1,057.61	522.31	7.25	-0.65
130.00	-5.08	-0.70	0.00	-29.75	0.00	29.75 29.05	1,112.36 1,108.10		1,046.91 1,036.24	517.03 511.76	7.39 7.53	-0.66 -0.67
131.00	-4.97	-0.70	0.00	-28.34	0.00	28.34	1,103.80		1,025.58	506.50	7.67	-0.67
132.00	-4.92	-0.69	0.00	-27.65	0.00	27.65	1,099.47	549.73	1,014.94	501.24	7.81	-0.68
133.00	-4.86	-0.69	0.00	-26.95	0.00	26.95	1,095.10		1,004.33	496.00	7.95	-0.69
134.00 135.00	-4.81 -4.76	-0.69 -0.68	0.00 0.00	-26.26 -25.58	0.00 0.00	26.26 25.58	1,090.69 1,086.26	545.35 543.13	993.73 983.15	490.77 485.54	8.10 8.24	-0.70 -0.70
136.00	-4.70	-0.68	0.00	-24.90	0.00	24.90	1,080.20	540.89	972.60	480.33	8.39	-0.70
137.00	-4.65	-0.67	0.00	-24.22	0.00	24.22			962.07	475.13	8.54	-0.72
138.00	-4.60	-0.67	0.00	-23.55	0.00	23.55	1,072.73	536.36	951.56	469.94	8.69	-0.73
139.00 140.00	-4.55	-0.66	0.00	-22.88	0.00	22.88	1,068.14	534.07	941.07	464.76	8.84	-0.73
140.00	-4.50 -4.44	-0.66 -0.65	0.00 0.00	-22.22 -21.56	0.00 0.00	22.22 21.56	1,063.53 1,058.88	531.76 529.44	930.61 920.17	459.59 454.44	9.00 9.16	-0.74 -0.75
142.00	-4.39	-0.65	0.00	-20.90	0.00	20.90	1,054.19	525.44	909.76	449.30	9.31	-0.76
143.00	-4.34	-0.64	0.00	-20.25	0.00	20.25	1,049.47	524.73	899.37	444.17	9.47	-0.76
144.00	-4.29	-0.64	0.00	-19.61	0.00	19.61	1,044.71		889.01	439.05	9.63	-0.77
145.00 146.00	-4.24 -4.19	-0.63 -0.63	0.00 0.00	-18.97 -18.34	0.00 0.00	18.97 18.34	1,039.92 1,035.09	519.96 517.54	878.68 868.38	433.95 428.86	9.79 9.96	-0.78 -0.78
147.00	-4.19	-0.62	0.00	-10.34	0.00	17.71	1,030.22	517.54	858.10	428.86	9.96	-0.78
148.00	-4.10	-0.62	0.00	-17.08	0.00	17.08	1,025.32	512.66	847.86	418.72	10.29	-0.80
149.00	-4.05	-0.61	0.00	-16.46	0.00	16.46	1,020.39	510.19	837.64	413.68	10.46	-0.80
150.00	-4.00	-0.61	0.00	-15.85	0.00	15.85	1,015.42		827.46	408.65	10.63	-0.81
151.00 152.00	-3.95 -3.90	-0.60 -0.60	0.00 0.00	-15.24 -14.63	0.00 0.00	15.24 14.63	1,010.41 1,005.37	505.21 502.69	817.30 807.18	403.63 398.64	10.80 10.97	-0.82 -0.82
153.00	-3.85	-0.59	0.00	-14.03	0.00	14.03	1,000.30	500.15	797.09	393.65	11.14	-0.83
154.00	-3.81	-0.59	0.00	-13.44	0.00	13.44	995.19	497.59	787.03	388.69	11.31	-0.83
155.00	-3.76	-0.58	0.00	-12.85	0.00	12.85	990.04	495.02	777.01	383.74	11.49	-0.84
156.00 157.00	-3.71 -3.67	-0.58 -0.57	0.00 0.00	-12.27 -11.69	0.00 0.00	12.27 11.69	983.06 975.56	491.53 487.78	765.62 753.91	378.11 372.33	11.67 11.84	-0.85 -0.85
158.00	-3.62	-0.57	0.00	-11.12	0.00	11.12	968.05	487.78	742.29	366.59	12.02	-0.85
159.00	-3.58	-0.56	0.00	-10.55	0.00	10.55	960.55	480.27	730.76	360.90	12.20	-0.86
160.00	-3.53	-0.56	0.00	-9.99	0.00	9.99	953.04	476.52	719.32	355.25	12.38	-0.87
161.00 162.00	-3.49	-0.55	0.00	-9.44	0.00	9.44	945.54	472.77	707.97	349.64	12.57	-0.87
163.00	-3.44 -3.40	-0.54 -0.54	0.00 0.00	-8.89 -8.34	0.00 0.00	8.89 8.34	938.04 930.53	469.02 465.27	696.71 685.54	344.08 338.56	12.75 12.93	-0.88 -0.88
164.00	-3.35	-0.53	0.00	-7.80	0.00	7.80	923.03	461.51	674.47	333.09	13.12	-0.89
165.00	-3.31	-0.53	0.00	-7.27	0.00	7.27	915.52	457.76	663.48	327.67	13.30	-0.89
166.00	-3.26	-0.52	0.00	-6.74	0.00	6.74	908.02	454.01	652.58	322.29	13.49	-0.89
167.00 168.00	-3.22 -3.18	-0.52 -0.51	0.00 0.00	-6.22 -5.71	0.00 0.00	6.22 5.71	900.52 893.01	450.26 446.51	641.77 631.06	316.95 311.65	13.68 13.87	-0.90 -0.90
169.00	-3.14	-0.50	0.00	-5.20	0.00	5.20	885.51	440.51	620.43	306.41	14.06	-0.90
170.00	-3.09	-0.50	0.00	-4.70	0.00	4.70	878.00	439.00	609.89	301.20	14.25	-0.91
171.00	-3.05	-0.49	0.00	-4.20	0.00	4.20	870.50	435.25	599.45	296.04	14.44	-0.91
172.00	-3.01	-0.49	0.00	-3.71	0.00	3.71	863.00	431.50	589.09	290.93	14.63	-0.91
173.00 174.00	-2.97 -2.93	-0.48 -0.47	0.00 0.00	-3.22 -2.74	0.00 0.00	3.22 2.74	855.49 847.99	427.75 423.99	578.82 568.65	285.86 280.83	14.82 15.01	-0.92 -0.92
175.00	-2.89	-0.47	0.00	-2.74	0.00	2.74	840.48	423.99	558.56	275.85	15.20	-0.92
176.00	-2.85	-0.46	0.00	-1.80	0.00	1.80	832.98	416.49	548.57	270.92	15.40	-0.92
177.00	-2.81	-0.45	0.00	-1 34	0.00	1 34	825.48	412 74	538 66	266.02	15 59	-0.92

1.34

825.48 412.74

538.66

266.02

15.59

-0.92

Site Numb Site Name Customer:	: Cich	196 1 - Colche T MOBIL			Engineer		: ANSI/TIA-2 : OAA735982		© 2007 -	2018 by AT		All rights 018 6:10	s reserved.):54 PM
178.00 179.00 180.00 180.58	-2.77 -2.73 0.00 0.00	-0.45 -0.44 0.00 0.00	0.00 0.00 0.00 0.00	-0.89 -0.44 0.00 0.00	0.00 0.00 0.00 0.00	0.89 0.44 0.00 0.00	817.97 810.47 802.96 798.59	408.99 405.23 401.48 399.29	528.85 519.12 509.49 503.91	261.18 256.38 251.62 248.86	15.78 15.98 16.17 16.28	-0.92 -0.92 -0.92 -0.92 -0.92	0.007 0.005 0.000 0.000

Site Number: 302496 Site Name: Clch - Colchester, CT Customer: AT&T MOBILITY

Code: ANSI/TIA-222-G Engineering Number: OAA735982_C3_01 © 2007 - 2018 by ATC IP LLC. All rights reserved. 7/2/2018 6:10:54 PM

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):	0.17
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 $_{\rm v}$	2.40
Response Modification Coefficient (R):	1.50
Design Spectral Response Acceleration at Short Period (S $_{ds}$):	0.18
Desing Spectral Response Acceleration at 1.0 Second Period (S $_{d1}$):	0.10
Period Based on Rayleigh Method (sec):	3.39
Redundancy Factor (p):	1.30

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

	Height Above Base	Weight					Horizontal Force	Vertical Force
Segment	(ft)	(lb)	а	b	с	Saz	(lb)	(lb)
184	180.29	22	1.884	1.948	1.128	0.343	6	27
183	179.50	46	1.867	1.863	1.098	0.332	13	57
182	178.50	46	1.847	1.759	1.060	0.320	13	57
181	177.50	47	1.826	1.659	1.023	0.307	12	58
180	176.50	47	1.805	1.564	0.987	0.295	12	58
179	175.50	47	1.785	1.472	0.952	0.283	12	59
178	174.50	48	1.765	1.383	0.918	0.271	11	59
177	173.50	48	1.745	1.299	0.885	0.260	11	60
176	172.50	48	1.725	1.218	0.853	0.248	10	60
175	171.50	49	1.705	1.140	0.822	0.237	10	60
174	170.50	49	1.685	1.066	0.791	0.226	10	61
173	169.50	50	1.665	0.994	0.762	0.215	9	61
172	168.50	50	1.646	0.926	0.734	0.205	9	62
171	167.50	50	1.626	0.861	0.706	0.195	8	62
170	166.50	51	1.607	0.799	0.679	0.184	8	63
169	165.50	51	1.587	0.740	0.653	0.175	8	63
168	164.50	51	1.568	0.684	0.628	0.165	7	63
167	163.50	52	1.549	0.630	0.603	0.156	7	64
166	162.50	52	1.530	0.579	0.580	0.146	7	64
165	161.50	52	1.512	0.530	0.557	0.137	6	65
164	160.50	53	1.493	0.484	0.534	0.128	6	65
163	159.50	53	1.474	0.440	0.513	0.120	6	66
162	158.50	53	1.456	0.398	0.492	0.111	5	66
161	157.50	54	1.438	0.359	0.472	0.103	5	66
160	156.50	54	1.419	0.322	0.452	0.095	4	67
159	155.50	54	1.401	0.287	0.433	0.087	4	67
158	154.50	55	1.383	0.253	0.415	0.080	4	68
157	153.50	55	1.366	0.222	0.397	0.073	3	68
156	152.50	55	1.348	0.192	0.380	0.065	3	69
155	151.50	56	1.330	0.165	0.363	0.058	3	69
154	150.50	56	1.313	0.139	0.347	0.052	3	69
153	149.50	56	1.295	0.114	0.332	0.045	2	70
152	148.50	57	1.278	0.091	0.317	0.039	2	70
151	147.50	57	1.261	0.070	0.303	0.032	2	71

Site Mulhbor.	302496			Code: A	NSI/TIA-22	22-G	© 2007 - 2018 by ATC	CIP LLC. All rights reserve
Site Name:	Clch - Colchester, CT		Engineering N	umber: O	AA735982	2_C3_01		7/2/2018 6:10:54 PM
Customer:	AT&T MOBILITY							
150	146.50	57	1.244	0.050	0.289	0.027	1	71
149	145.50	58	1.227	0.032	0.275	0.021	1	72
148	144.50	58	1.210	0.015	0.262	0.015	1	72
147	143.50	59	1.193	-0.001	0.250	0.010	0	72
146	142.50	59	1.177	-0.016	0.238	0.005	0	73
145 144	141.50	59	1.160	-0.029	0.226	0.000	0	73 74
144	140.50 139.50	60 60	1.144	-0.042	0.215 0.204	-0.005	0 -1	74 74
143	138.50	60 60	1.128 1.112	-0.053 -0.063	0.204	-0.010 -0.014	-1	74 75
141	137.50	61	1.096	-0.003	0.184	-0.014	-1	75
140	136.50	61	1.080	-0.081	0.175	-0.022	-1	75
139	135.50	61	1.064	-0.088	0.166	-0.026	-1	76
138	134.50	62	1.048	-0.094	0.157	-0.030	-2	76
137	133.50	62	1.033	-0.100	0.148	-0.033	-2	77
136	132.50	62	1.018	-0.105	0.140	-0.037	-2	77
135	131.50	63	1.002	-0.109	0.132	-0.040	-2	78
134	130.50	63	0.987	-0.113	0.125	-0.042	-2	78
133	129.50	63	0.972	-0.116	0.118	-0.045	-2	78
132	128.50	64	0.957	-0.118	0.111	-0.048	-3	79
131	127.50	64	0.942	-0.120	0.105	-0.050	-3	79
130	126.50	64	0.927	-0.121	0.098	-0.052	-3	80
129 128	125.75	32	0.916	-0.121	0.094	-0.053	-1	40
120	125.25 124.50	36	0.909	-0.122	0.091 0.087	-0.054	-2 -4	45 90
126	124.50	73 73	0.898 0.884	-0.122 -0.121	0.081	-0.055		90 91
125	123.50	73	0.884	-0.121	0.076	-0.057 -0.058	-4 -4	91
124	121.50	74	0.856	-0.121	0.070	-0.059	-4	92
123	120.50	75	0.842	-0.118	0.067	-0.060	-4	92
122	119.50	75	0.828	-0.116	0.062	-0.060	-4	93
121	118.50	75	0.814	-0.114	0.058	-0.061	-4	93
120	117.50	76	0.800	-0.112	0.054	-0.061	-4	94
119	116.50	76	0.787	-0.109	0.050	-0.061	-4	94
118	115.50	77	0.773	-0.106	0.046	-0.061	-4	95
117	114.50	77	0.760	-0.103	0.043	-0.060	-4	95
116	113.50	77	0.747	-0.100	0.040	-0.060	-4	96
115	112.50	78	0.734	-0.097	0.037	-0.059	-4	96
114	111.50	78	0.721	-0.093	0.034	-0.058	-4	97
113	110.50	79	0.708	-0.089	0.031	-0.056	-4	97
112	109.50	.79	0.695	-0.085	0.029	-0.055	-4	98
111	108.50	79	0.682	-0.081	0.027	-0.053	-4	98
110 109	107.50 106.50	80 80	0.670 0.657	-0.077 -0.073	0.024 0.022	-0.051 -0.049	-4 -3	99 99
108	105.50	81	0.645	-0.073	0.022	-0.049	-3	100
100	103.50	81	0.633	-0.069	0.020	-0.040	-3	100
106	104.50	81	0.621	-0.065	0.013	-0.044 -0.041	-3	100
105	102.50	82	0.609	-0.056	0.016	-0.041	-3	101
104	101.50	82	0.597	-0.052	0.014	-0.035	-3	102
103	100.50	83	0.585	-0.048	0.013	-0.032	-2	102
102	99.50	83	0.574	-0.043	0.012	-0.029	-2	103
101	98.50	83	0.562	-0.039	0.011	-0.025	-2	103
100	97.50	84	0.551	-0.035	0.010	-0.021	-2	104
99	96.50	84	0.540	-0.031	0.009	-0.018	-1	104
98	95.50	85	0.529	-0.027	0.008	-0.014	-1	105
97	94.50	85	0.518	-0.023	0.008	-0.010	-1	105
96 07	93.50	85	0.507	-0.019	0.007	-0.006	0	106
95	92.50	86	0.496	-0.015	0.007	-0.003	0	106
94	91.50	86	0.485	-0.011	0.007	0.001	0	107
93	90.50	87	0.475	-0.007	0.006	0.005	0	107
92 01	89.50	87	0.464	-0.003	0.006	0.008	1	107
91 90	88.50	87	0.454	0.000	0.006	0.012	1	108
90 80	87.50	88	0.444	0.004	0.006	0.015	1	108
89 88	86.50 85.88	88	0.434	0.007	0.006 0.006	0.019	1	109 27
	80.88	22	0.427	0.009	0.000	0.021	0	21

·

Site Number:	302496			Code: A	NSI/TIA-22	© 2007 - 2018 by ATC IP LLC. All rights reser		
Site Name:	Clch - Colchester, CT		Engineering N	umber: O	AA735982	_C3_01		7/2/2018 6:10:54 PM
Customer:	AT&T MOBILITY							
86	84.50	128	0.414	0.014	0.006	0.025	3	159
85	83.50	129	0.404	0.017	0.006	0.028	3	160
84 83	82.50 81.50	130 130	0.394 0.385	0.020 0.023	0.007 0.007	0.031 0.033	3 4	160 161
82	80.50	130	0.376	0.025	0.007	0.035	4	162
81	79.50	131	0.366	0.028	0.008	0.038	4	163
80	78.50	132	0.357	0.031	0.008	0.040	5	163
79	77.50	133	0.348	0.033	0.009	0.042	5	164
78	76.50	133	0.339	0.036	0.009	0.044	5	165
77 76	75.50 74.50	134 134	0.330	0.038 0.040	0.010 0.011	0.046	5 6	165 166
75	73.50	134	0.322 0.313	0.040	0.011	0.047 0.049	6	167
74	72.50	136	0.305	0.044	0.012	0.050	6	168
73	71.50	136	0.296	0.046	0.013	0.051	6	168
72	70.50	137	0.288	0.048	0.013	0.052	6	169
71	69.50	137	0.280	0.050	0.014	0.053	6	170
70 60	68.50	138	0.272	0.051	0.015	0.054	6	171
69 68	67.50 66.50	139 139	0.264 0.256	0.053	0.016 0.016	0.055	7 7	171 172
67	65.50	139	0.238	0.054 0.056	0.010	0.055 0.056	7	172
66	64.50	140	0.243	0.057	0.018	0.056	, 7	174
65	63.50	141	0.234	0.058	0.019	0.056	7	174
64	62.50	141	0.226	0.059	0.020	0.057	7	175
63	61.50	142	0.219	0.060	0.021	0.057	7	176
62	60.50	143	0.212	0.061	0.022	0.057	7	176
61 60	59.50 58.50	143 144	0.205	0.062 0.063	0.023 0.023	0.057	7 7	177 178
59	57.50	144	0.198 0.192	0.063	0.023	0.057 0.057	7	178
58	56.50	145	0.185	0.065	0.025	0.057	, 7	179
57	55.50	146	0.179	0.065	0.026	0.057	, 7	180
56	54.50	146	0.172	0.066	0.027	0.057	7	181
55	53.50	147	0.166	0.067	0.028	0.057	7	182
54	52.50	147	0.160	0.067	0.029	0.057	7	182
53 52	51.50 50.50	148 149	0.154 0.148	0.068 0.068	0.030 0.030	0.057 0.057	7 7	183 184
51	49.50	149	0.140	0.069	0.030	0.056	7	185
50	48.50	150	0.136	0.069	0.032	0.056	7	185
49	47.50	150	0.131	0.069	0.033	0.056	7	186
48	46.50	151	0.125	0.070	0.034	0.056	7	187
47	45.50	152	0.120	0.070	0.034	0.055	7	187
46 45	44.88 44.38	38 132	0.117 0.114	0.070 0.070	0.035 0.035	0.055 0.055	2 6	47 163
44	43.50	176	0.110	0.070	0.035	0.055	8	218
43	42.50	177	0.105	0.071	0.037	0.055	8	219
42	41.50	178	0.100	0.071	0.037	0.055	8	220
41	40.50	179	0.095	0.071	0.038	0.054	8	221
40	39.50	179	0.090	0.071	0.038	0.054	8	222
39	38.50	180	0.086	0.071	0.039	0.054	8	223
38 37	37.50 36.50	181 181	0.082 0.077	0.072 0.072	0.039 0.040	0.054 0.054	8 8	223 224
36	35.50	182	0.073	0.072	0.040	0.053	8	225
35	34.50	183	0.069	0.072	0.041	0.053	8	226
34	33.50	183	0.065	0.072	0.041	0.053	8	227
33	32.50	184	0.061	0.072	0.041	0.053	8	228
32	31.50	185	0.058	0.072	0.041	0.052	8	229
31 30	30.50 29.50	185 186	0.054 0.050	0.071 0.071	0.042 0.042	0.052 0.052	8 8	229 230
29	29.50	186	0.050	0.071	0.042	0.052	8	230
28	27.50	188	0.047	0.071	0.042	0.052	8	231
27	26.50	188	0.041	0.070	0.042	0.051	8	233
26	25.50	189	0.038	0.070	0.041	0.051	8	234
25	24.50	190	0.035	0.069	0.041	0.051	8	235
24	23.50	190	0.032	0.069	0.041	0.050	8	235
23	22.50	191	0.029	0.068	0.040	0.050	8	236

-

Site	Number:	302496
Oito	Number.	002100

Engineering Number: OAA735982_C3_01

© 2007 - 2018 by ATC IP LLC. All rights reserved. 7/2/2018 6:10:54 PM

Site Name: Clch - Colchester, CT

Customer: AT&T MOBILITY 0.040 22 21.50 192 0.027 0.067 0.049 8 237 21 20.50 192 0.024 0.066 0.039 0.049 8 238 20 19.50 193 0.039 0.022 0.065 0.048 8 239 19 18.50 194 0.020 0.064 0.038 0.048 8 240 0.037 8 18 17.50 194 0.018 0.063 0.047 241 17 16.50 195 0.016 0.061 0.036 0.046 8 241 16 15.50 196 0.014 0.060 0.035 0.045 8 242 15 14.50 197 0.012 0.058 0.034 0.044 8 243 7 13.50 197 0.056 0.032 0.043 244 14 0.011 13 12.50 198 0.009 0.053 0.031 0.042 7 245 0.029 7 12 11.50 199 0.008 0.051 0.041 246 0.006 0.027 247 11 10.50 199 0.048 0.039 7 10 9.50 200 0.005 0.045 0.026 0.037 6 247 0.024 9 8.50 201 0.004 0.035 6 248 0.042 0.021 8 7.50 201 0.003 0.038 0.033 6 249 7 6.50 202 0.019 250 0.002 0.035 0.031 5 6 5.50 203 0.002 0.030 0.017 0.028 5 251 5 4 203 0.014 252 4.50 0.001 0.026 0.024 4 3.50 204 0.001 0.021 0.011 0.020 4 253 0.008 3 2.50 205 0.000 0.015 0.016 3 253 2 1.50 206 0.000 0.010 0.005 0.010 2 254 0.002 255 1 0.50 206 0.000 0.003 0.004 1 Kaelus DBC0061F1V51-180.00 76 1.878 1.916 1.117 0.339 22 95 1.117 25 Raycap DC6-48-60-18-180.00 20 1.878 1.916 0.339 6 1.117 230 Powerwave LGP17201 180.00 186 1.878 1.916 0.339 55 200 Ericsson RRUS-11 800 180.00 162 0.339 48 1.878 1.916 1.117 Ericsson RRUS 32 B2 1.117 47 197 180.00 159 1.878 1.916 0.339 KMW AM-X-CD-14-65-00 45 180.00 1.916 1.117 0.339 11 36 1.878 180.00 105 1.916 1.117 0.339 130 Powerwave 7770.00 1.878 31 1.117 Quintel QS46512-2 180.00 104 1.878 1.916 0.339 31 129 Andrew SBNH-1D6565C 1.117 39 164 180.00 132 0.339 1.878 1.916 1.117 202 CCI TPA-65R-LCUUUU-H 180.00 163 1.878 1.916 0.339 48 Round Platform w/ Ha 1.117 2,474 180.00 2,000 1.878 1.916 0.339 587 23,666 136.663 48.331 41.873 11.733 1,622 29,273

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

Seismic (Reduced DL) Equivalent Modal Analysis Method

	Height Above Base	Weight					Horizontal Force	Vertical Force
Segment	(ft)	(Ib)	а	b	с	Saz	(lb)	(lb)
184	180.29	22	1.884	1.948	1.128	0.343	6	19
183	179.50	46	1.867	1.863	1.098	0.332	13	40
182	178.50	46	1.847	1.759	1.060	0.320	13	40
181	177.50	47	1.826	1.659	1.023	0.307	12	40
180	176.50	47	1.805	1.564	0.987	0.295	12	41
179	175.50	47	1.785	1.472	0.952	0.283	12	41
178	174.50	48	1.765	1.383	0.918	0.271	11	41
177	173.50	48	1.745	1.299	0.885	0.260	11	42
176	172.50	48	1.725	1.218	0.853	0.248	10	42
175	171.50	49	1.705	1.140	0.822	0.237	10	42
174	170.50	49	1.685	1.066	0.791	0.226	10	42
173	169.50	50	1.665	0.994	0.762	0.215	9	43
172	168.50	50	1.646	0.926	0.734	0.205	9	43
171	167.50	50	1.626	0.861	0.706	0.195	8	43
170	166.50	51	1.607	0.799	0.679	0.184	8	44
169	165.50	51	1.587	0.740	0.653	0.175	8	44
168	164.50	51	1.568	0.684	0.628	0.165	7	44
167	163.50	52	1.549	0.630	0.603	0.156	7	45
166	162.50	52	1.530	0.579	0.580	0.146	7	45
165	161.50	52	1.512	0.530	0.557	0.137	6	45

Site Number	: 302496			Code: A	NSI/TIA-22	2-G © 20	07 - 2018 by ATC IP L	LC. All rights reserve
Site Name:	Clch - Colchester, CT		Engineering N	umber: O	AA735982	_C3_01	7.	/2/2018 6:10:54 PM
Customer:	AT&T MOBILITY							
164	160.50	53	1.493	0.484	0.534	0.128	6	45
163	159.50	53	1.474	0.440	0.513	0.120	6	46
162	158.50	53	1.456	0.398	0.492	0.111	5	46
161	157.50	54	1.438	0.359	0.472	0.103	5 4	46
160	156.50	54	1.419	0.322	0.452 0.433	0.095		47 47
159 158	155.50 154.50	54 55	1.401 1.383	0.287 0.253	0.433	0.087 0.080	4	47 47
157	153.50	55	1.366	0.222	0.397	0.073	3	48
156	152.50	55	1.348	0.192	0.380	0.065	3	48
155	151.50	56	1.330	0.165	0.363	0.058	3	48
154	150.50	56	1.313	0.139	0.347	0.052	3	48
153	149.50	56	1.295	0.114	0.332	0.045	2	49
152	148.50	57	1.278	0.091	0.317	0.039	2	49
151	147.50	57	1.261	0.070	0.303	0.032	2	49
150	146.50	57	1.244	0.050	0.289	0.027	1	50
149	145.50	58	1.227	0.032	0.275	0.021	1	50
148	144.50	58	1.210	0.015	0.262	0.015	1	50 51
147	143.50	59	1.193	-0.001	0.250 0.238	0.010	0	51 51
146 145	142.50	59	1.177	-0.016	0.226	0.005	0	51
145	141.50 140.50	59 60	1.160 1.144	-0.029 -0.042	0.215	0.000 -0.005	0	51
143	139.50	60	1.144	-0.042	0.204	-0.010	-1	52
142	138.50	60	1.120	-0.063	0.194	-0.014	-1	52
141	137.50	61	1.096	-0.072	0.184	-0.018	-1	52
140	136.50	61	1.080	-0.081	0.175	-0.022	-1	53
139	135.50	61	1.064	-0.088	0.166	-0.026	-1	53
138	134.50	62	1.048	-0.094	0.157	-0.030	-2	53
137	133.50	62	1.033	-0.100	0.148	-0.033	-2	53
136	132.50	62	1.018	-0.105	0.140	-0.037	-2	54
135	131.50	63	1.002	-0.109	0.132	-0.040	-2	54
134	130.50	63	0.987	-0.113	0.125	-0.042	-2	54
133	129.50	63	0.972	-0.116	0.118	-0.045	-2	55
132	128.50	64	0.957	-0.118	0.111	-0.048	-3	55
131 130	127.50	64	0.942	-0.120	0.105	-0.050	-3	55 56
129	126.50 125.75	64 32	0.927 0.916	-0.121 -0.121	0.098 0.094	-0.052 -0.053	-3 -1	28
128	125.25	36	0.909	-0.121	0.091	-0.054	-2	31
127	124.50	73	0.898	-0.122	0.087	-0.055	-4	63
126	123.50	73	0.884	-0.121	0.081	-0.057	-4	63
125	122.50	74	0.870	-0.121	0.076	-0.058	-4	64
124	121.50	74	0.856	-0.120	0.071	-0.059	-4	64
123	120.50	75	0.842	-0.118	0.067	-0.060	-4	64
122	119.50	75	0.828	-0.116	0.062	-0.060	-4	65
121	118.50	75	0.814	-0.114	0.058	-0.061	-4	65
120	117.50	76	0.800	-0.112	0.054	-0.061	-4	65
119	116.50	76	0.787	-0.109	0.050	-0.061	-4	66
118	115.50	77	0.773	-0.106	0.046	-0.061	-4	66
117	114.50	77	0.760	-0.103	0.043	-0.060	-4	66
116	113.50	77	0.747	-0.100	0.040	-0.060	-4	67
115 114	112.50	78	0.734	-0.097	0.037	-0.059	-4	67 67
114	111.50 110.50	78	0.721 0.708	-0.093	0.034 0.031	-0.058	-4 -4	68
112	109.50	79 79	0.695	-0.089 -0.085	0.029	-0.056 -0.055	-4	68
112	109.50	79	0.695	-0.085	0.025	-0.055	-4	69
110	107.50	80	0.670	-0.081	0.027	-0.051	-4	69
109	106.50	80	0.657	-0.073	0.022	-0.049	-3	69
108	105.50	81	0.645	-0.069	0.020	-0.046	-3	70
107	104.50	81	0.633	-0.065	0.019	-0.044	-3	70
106	103.50	81	0.621	-0.060	0.017	-0.041	-3	70
105	102.50	82	0.609	-0.056	0.016	-0.038	-3	71
104	101.50	82	0.597	-0.052	0.014	-0.035	-3	71
103	100.50	83	0.585	-0.048	0.013	-0.032	-2	71
102	99.50	83	0.574	-0.043	0.012	-0.029	-2	72
101	98.50	83	0.562	-0.039	0.011	-0.025	-2	72

Page: 59

Customer: AT&T MOBILITY Attain the second s	Site Number:	302496			Code: A	NSI/TIA-2	22-G	© 2007 - 2018 by ATC	PLLC. All rights reserve
100 97.50 84 0.651 0035 0.010 021 2 198 95.50 85 0.529 003 10.009 016 1 7 97 94.50 85 0.518 007 0066 010 1 7 95 92.50 86 0.646 0015 007 0066 0.010 7 95 92.50 86 0.466 0015 007 0006 0.07 0006 0.07 0006 0.07 0006 0.07 0006 0.07 0006 0.07 0006 0.07 0006 0.07 0006 0.07 0006 0.07 0006 0.07 0006 0.07 0007 0007 0007 0007 0007 0007 0007 0007 0007 0007 0007 0007 0007 0007 0007 0007 0007 0007 0007	Site Name:	Clch - Colchester, CT		Engineering N	umber: O	AA735982	2_C3_01		7/2/2018 6:10:54 PM
99 96.50 84 0.540 0.031 0.009 0.018 -1 7 97 94.50 85 0.518 0.0023 0.008 0.010 -1 7 96 93.50 85 0.518 0.007 0.003 0.010 -1 7 95 92.50 86 0.466 -0.015 0.007 0.003 0 7 94 91.50 86 0.447 -0.000 0.006 0.012 1 7 91 88.50 87 0.475 -0.000 0.006 0.015 1 7 90 86.50 88 0.444 0.007 0.006 0.015 1 7 80 96.50 88 0.444 0.007 0.006 0.021 0 1 81 98.50 87 0.422 0.011 0.066 0.022 2 8 81 0.453 0.022 0.011 0.066	Customer:	AT&T MOBILITY							<u>. </u>
96 95 0 85 0.529 0.007 0.008 0.014 -1 7 96 93.50 85 0.567 0.019 0.007 0.006 0 7 96 92.50 86 0.465 0.011 0.007 0.006 0 7 94 91.50 86 0.465 0.011 0.007 0.006 0 7 92 80.50 87 0.0454 0.000 0.006 0.012 1 7 99 87.50 88 0.444 0.004 0.006 0.012 1 7 80 86.58 2.2 0.427 0.006 0.022 2 8 1 81 82.50 130 0.344 0.021 0.007 0.333 3 11 82 84.50 128 0.414 0.011 0.006 0.0228 3 11 84 82.50 130 0.344 0.023 <td></td> <td>97.50</td> <td>84</td> <td>0.551</td> <td>-0.035</td> <td>0.010</td> <td>-0.021</td> <td>-2</td> <td>72</td>		97.50	84	0.551	-0.035	0.010	-0.021	-2	72
97 94.50 85 0.518 -0.023 0.008 -0.016 -1 7 96 92.50 86 0.496 -0.015 0.007 -0.006 0 7 95 92.50 86 0.446 -0.007 0.006 0.006 0.007 7 93 90.50 87 0.446 -0.007 0.006 0.008 1 7 92 88.50 87 0.4464 -0.000 0.006 0.011 1 7 90 87.56 86 0.444 0.000 0.006 0.012 1 7 90 87.56 86.58 96 0.427 0.019 0.066 0.022 2 8 86 84.50 128 0.414 0.014 0.006 0.028 3 11 82 85.50 130 0.354 0.021 0.033 4 11 83 81.50 130 0.356 0.026 0.070 0.038 4 11 84 82.50 130 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>73</td></t<>									73
96 93.50 85 92.50 86 0.466 0.017 0.006 0 7 94 91.50 86 0.445 0.011 0.007 0.006 0.077 93 90.50 87 0.475 0.007 0.006 0.006 0.007 7 91 88.50 87 0.464 0.000 0.006 0.012 1 7 90 87.50 88 0.444 0.004 0.006 0.019 1 7 90 87.50 88 0.444 0.004 0.006 0.021 0 1 7 80 88.50 129 0.464 0.007 0.066 0.023 3 11 84 82.50 130 0.376 0.023 0.077 0.033 4 11 84 83.50 130 0.385 0.022 0.040 0.331 3 11 84 83.50 130 0.336									73
95 92.50 86 0.496 -0.015 0.007 -0.003 0 7 93 90.50 87 0.446 -0.007 0.006 0.006 0.006 0 7 92 85.50 87 0.446 -0.000 0.006 0.006 0.006 1 7 90 87.50 88 0.444 0.000 0.006 0.011 1 7 80 86.50 85 0.434 0.000 0.005 0.0121 0 1 81 85.88 22 0.422 0.011 0.005 0.022 2 8 82 83.80 128 0.422 0.011 0.005 0.022 3 11 83 84.50 128 0.444 0.011 0.006 0.028 3 11 84 82.50 130 0.348 0.023 0.013 3 11 85 0.55 131 0.348									73
94 91.50 86 0.445 -0.011 0.007 0.006 0 7 93 90.50 87 0.475 -0.007 0.006 0.006 1 7 90 85.50 87 0.464 0.000 0.006 0.012 1 7 90 87.50 88 0.444 0.004 0.006 0.013 1 7 80 88.68 22 0.427 0.009 0.006 0.022 2 6 81 83.69 96 0.427 0.017 0.006 0.022 2 6 84 82.50 130 0.364 0.027 0.033 3 11 83 81.50 130 0.385 0.023 0.007 0.033 3 11 84 82.50 130 0.386 0.028 0.004 5 11 85 0.50 131 0.376 0.028 0.004 5 11									74
93 90.50 87 0.476 0.007 0.006 0.006 1 7 91 88.50 87 0.464 0.000 0.006 0.012 1 7 90 87.50 88 0.444 0.004 0.006 0.015 1 7 89 86.50 88 0.434 0.007 0.006 0.021 0 1 77 85.88 2.2 0.472 0.000 0.025 3 11 85 83.50 129 0.414 0.101 0.006 0.025 3 11 86 84.60 129 0.414 0.101 0.006 0.028 3 11 81 0.350 0.328 0.023 3 11 13									74 74
92 89.50 87 0.464 -0.003 0.006 0.012 1 7 90 87.50 88 0.444 0.004 0.005 0.012 1 7 89 86.50 88 0.444 0.007 0.006 0.019 1 7 80 85.88 22 0.422 0.007 0.006 0.022 2 8 86 84.50 128 0.414 0.014 0.006 0.022 3 11 85 83.50 128 0.414 0.017 0.036 0.022 3 11 84 82.50 130 0.394 0.020 0.007 0.033 4 11 83 81.50 133 0.366 0.022 0.007 0.038 4 11 84 82.50 130 0.357 0.026 0.007 0.038 4 11 83 81.50 133 0.348 0.032 0.030 0.044 5 11 84 0.55 0.313 0.3									74 75
91 88.50 87 0.454 0.006 0.015 1 7 89 86.50 68 0.434 0.007 0.066 0.015 1 7 88 85.88 22 0.427 0.006 0.021 0 1 877 85.38 96 0.422 0.011 0.006 0.022 2 8 866 84.50 128 0.414 0.017 0.006 0.025 3 11 85 83.50 129 0.404 0.017 0.006 0.023 3 1 13 84 82.50 130 0.384 0.027 0.033 4 1 1 81 79.50 131 0.366 0.007 0.033 4 1 1 80 76.50 133 0.339 0.036 0.040 5 1 1 76 74.50 133 0.339 0.036 0.040 5 1 1 76 74.50 133 0.322 0.040 0.011<									75
90 87.50 88 0.444 0.006 0.015 1 7 88 86.50 88 0.434 0.007 0.006 0.021 0 1 7 85.38 96 0.422 0.011 0.006 0.022 2 8 86 84.50 1.28 0.414 0.016 0.022 3 11 84 82.50 1.30 0.394 0.027 0.033 4 11 83 81.50 1.30 0.326 0.027 0.033 4 11 84 82.50 1.30 0.376 0.028 0.038 4 11 81 79.50 1.32 0.366 0.028 0.038 4 11 78 77.50 1.33 0.38 0.031 0.042 5 11 79 7.50 1.33 0.38 0.031 0.044 5 11 74 7.250 1.33 0.380									75
89 86.50 68 0.434 0.007 0.006 0.019 1 7 87 85.38 96 0.427 0.006 0.022 2 8 86 84.50 128 0.414 0.014 0.006 0.025 3 11 85 83.50 128 0.404 0.017 0.006 0.022 3 3 11 84 82.50 130 0.344 0.027 0.033 4 11 83 81.50 130 0.345 0.027 0.033 4 11 82 80.50 131 0.367 0.028 0.008 0.038 4 11 81 79.50 133 0.348 0.031 0.008 0.040 5 11 78 76.50 134 0.330 0.036 0.044 5 11 74 72.50 134 0.322 0.044 0.011 0.046 11									76
88 88.88 22 0.427 0.009 0.006 0.021 0 1 87 86.38 96 0.422 0.011 0.006 0.022 2 8 866 84.50 128 0.414 0.017 0.006 0.026 3 11 843 82.50 130 0.384 0.022 0.007 0.033 4 11 82 80.50 131 0.376 0.028 0.008 0.040 5 11 81 79.50 132 0.377 0.031 0.008 0.040 5 11 76 7.550 133 0.339 0.036 0.040 5 11 76 7.450 134 0.322 0.040 0.041 5 11 76 7.550 134 0.323 0.036 0.040 0.044 5 11 74 7.550 136 0.226 0.044 0.011 0.047 6 11 74 7.50 137 0.280 0.046							0.015		76
87 85.38 96 0.422 0.011 0.006 0.025 3 11 85 83.50 129 0.404 0.017 0.006 0.028 3 11 84 82.50 130 0.384 0.027 0.033 4 11 83 81.50 130 0.385 0.020 0.007 0.033 4 11 82 80.50 131 0.376 0.028 0.008 0.404 5 11 81 75.50 131 0.366 0.028 0.042 5 11 78 77.50 133 0.348 0.033 0.042 5 11 76 74.50 134 0.330 0.038 0.040 5 11 76 74.50 134 0.320 0.041 0.041 5 11 75 73.50 136 0.313 0.042 0.011 0.049 6 11 74 72.50 136 0.328 0.046 0.013 0.051 6 11									19
86 84.50 128 0.414 0.014 0.006 0.025 3 11 85 83.50 130 0.394 0.020 0.007 0.031 3 11 84 82.50 130 0.385 0.023 0.007 0.033 4 11 82 80.50 131 0.366 0.028 0.006 0.036 4 11 81 76.50 131 0.366 0.028 0.008 0.040 5 11 79 77.50 133 0.349 0.033 0.009 0.044 5 11 76 74.50 134 0.320 0.038 0.046 5 11 77 75.50 134 0.320 0.010 0.044 5 11 74 72.50 136 0.326 0.011 0.047 6 11 73 77.50 136 0.226 0.014 0.012 0.050 11									83
85 83.50 129 0.404 0.017 0.006 0.028 3 11 84 82.50 130 0.394 0.020 0.007 0.033 4 11 83 81.50 130 0.385 0.023 0.007 0.033 4 11 81 79.50 131 0.366 0.026 0.007 0.038 4 11 80 78.50 131 0.366 0.028 0.008 0.042 5 11 78 77.50 133 0.348 0.030 0.046 5 11 76 73.50 134 0.330 0.036 0.046 6 11 74 72.50 136 0.313 0.042 0.011 0.046 6 11 74 72.50 136 0.325 0.048 0.013 0.052 6 11 74 72.50 137 0.286 0.046 0.013 0.055									111
84 82.50 130 0.384 0.023 0.007 0.031 3 11 83 81.50 131 0.376 0.023 0.007 0.033 4 11 82 80.50 131 0.376 0.028 0.008 0.036 4 11 80 78.50 132 0.357 0.031 0.008 0.040 5 11 76 77.50 133 0.339 0.036 0.009 0.042 5 11 76 74.50 134 0.322 0.040 0.011 0.044 5 11 76 74.50 134 0.322 0.040 0.011 0.047 6 11 73 71.50 136 0.305 0.042 0.011 0.047 6 11 71 69.50 137 0.280 0.014 0.053 6 11 72 70.50 139 0.244 0.055 7			129				0.028		111
83 81.50 130 0.385 0.023 0.007 0.033 4 11 81 79.50 131 0.366 0.026 0.008 0.038 4 11 80 78.50 132 0.357 0.031 0.008 0.040 5 11 79 77.50 133 0.348 0.033 0.009 0.042 5 11 76 74.50 133 0.348 0.036 0.009 0.042 5 11 75 74.50 134 0.322 0.040 0.011 0.044 5 11 74 72.50 136 0.305 0.042 0.011 0.049 6 11 73 71.50 137 0.288 0.048 0.013 0.051 6 11 71 69.50 137 0.288 0.046 0.013 0.055 7 12 70 68.50 138 0.272 0.051 0.056 7 12 66 65.50 140 0.249 <	84								112
82 80.50 131 0.376 0.026 0.007 0.036 4 11 80 78.50 132 0.357 0.031 0.008 0.040 5 11 79 77.50 133 0.339 0.036 0.009 0.042 5 11 78 76.50 133 0.339 0.036 0.009 0.044 5 11 76 74.50 134 0.322 0.040 0.011 0.046 5 11 75 73.50 136 0.322 0.040 0.011 0.049 6 11 74 72.50 136 0.305 0.044 0.013 0.051 6 11 73 71.50 137 0.280 0.046 0.013 0.052 6 11 70 68.50 138 0.272 0.051 0.015 0.054 6 11 68 65.50 140 0.249 0.056 0.016 0.055 7 12 66 65.50 141 <	83						0.033	4	112
81 79.50 131 0.366 0.028 0.008 0.038 4 11 79 77.50 133 0.348 0.033 0.009 0.042 5 11 77 75.50 133 0.348 0.033 0.009 0.042 5 11 76 74.50 134 0.330 0.038 0.011 0.046 5 11 76 74.50 134 0.322 0.040 0.011 0.046 5 11 75 73.50 136 0.325 0.044 0.011 0.046 6 11 74 72.50 136 0.326 0.044 0.013 0.051 6 11 71 66.50 137 0.288 0.048 0.014 0.055 7 12 70 66.50 138 0.272 0.051 0.016 0.055 7 12 66 64.50 140 0.241 0.057 0.056 7 12 67 65.50 141 0.226 <				0.376	0.026	0.007		4	113
80 78.50 132 0.357 0.031 0.008 0.040 5 11 78 76.50 133 0.339 0.036 0.009 0.042 5 11 78 76.50 134 0.339 0.036 0.009 0.044 5 11 76 74.50 134 0.322 0.040 0.011 0.046 5 11 74 72.50 135 0.313 0.042 0.011 0.047 6 11 74 72.50 135 0.313 0.042 0.050 6 11 74 72.50 137 0.286 0.046 0.013 0.055 6 17 70 66.50 138 0.224 0.055 0.016 0.055 7 13 66 66.50 140 0.249 0.056 0.017 0.056 7 13 67 65.50 140 0.249 0.056 0.017	81	79.50		0.366	0.028	0.008		4	113
78 76.50 133 0.339 0.036 0.044 5 11 77 75.50 134 0.322 0.040 0.011 0.046 5 11 76 74.50 134 0.322 0.040 0.011 0.047 6 11 75 73.50 135 0.313 0.042 0.011 0.049 6 11 74 72.50 136 0.296 0.044 0.012 0.050 6 11 72 70.50 137 0.280 0.044 0.013 0.052 6 11 71 69.50 133 0.220 0.051 0.054 6 11 70 68.50 138 0.222 0.051 0.054 6 11 68 66.50 139 0.264 0.053 0.016 0.056 7 12 68 66.50 140 0.249 0.056 0.017 0.056 7 13 66 64.50 141 0.226 0.057 7 1	80			0.357	0.031	0.008			114
77 75 74 50 134 0.320 0.038 0.011 0.046 5 11 76 74 72 50 135 0.313 0.042 0.011 0.047 6 11 74 72 70 136 0.305 0.044 0.012 0.050 6 11 74 72 70 50 137 0.288 0.046 0.013 0.052 6 11 72 70 70 68 0.137 0.228 0.046 0.013 0.055 6 11 70 68 60 137 0.228 0.046 0.011 0.053 6 11 70 68 60 138 0.272 0.051 0.015 0.055 7 11 69 67 50 139 0.256 0.054 0.016 0.055 7 11 66 66 50 139 0.256 0.054 0.016 0.055 7 11 66 64 50 140 0.249 0.056 0.011 0.056 7 11 66 64 50 141 0.226 0.059 0.020 0.057 7 11 61 62 50 141 0.224 0.056 0.021 0.057 7 11 62 60 50 143 0.205 0.067 7 11 59 57 50 144					0.033		0.042		114
76 74.50 134 0.322 0.040 0.011 0.047 6 11 74 72.50 136 0.305 0.044 0.012 0.050 6 11 74 72.50 136 0.296 0.044 0.013 0.051 6 11 73 71.50 137 0.280 0.044 0.013 0.052 6 11 71 69.50 137 0.280 0.060 0.014 0.063 6 11 70 66.50 138 0.272 0.051 0.014 0.053 6 11 69 67.50 139 0.264 0.053 0.016 0.055 7 11 68 66.50 139 0.266 0.054 0.016 0.055 7 11 66 64.50 140 0.249 0.056 0.017 0.056 7 11 66 64.50 140 0.241 0.057 0.018 0.056 7 11 61 69.50 143 0.212 0.067 7 11 62 60.50 143 0.212 0.067 7 11 61 59.50 143 0.212 0.067 7 11 61 59.50 144 0.192 0.066 0.027 0.057 7 11 56 54.50 146 0.172 0.066 0.027 0.577 7 11 57 <		76.50	133	0.339	0.036		0.044		115
7573.50135 0.313 0.042 0.011 0.049 6117472.50136 0.305 0.044 0.012 0.050 6117371.50136 0.296 0.046 0.013 0.051 6117270.50137 0.288 0.046 0.013 0.052 6117068.50137 0.228 0.046 0.013 0.055 6116967.50139 0.264 0.053 0.016 0.055 7116166.50139 0.266 0.016 0.055 7116265.50140 0.249 0.056 0.017 0.056 7126462.50141 0.224 0.057 0.018 0.056 7126563.50141 0.224 0.057 713626155.50143 0.212 0.060 0.021 0.57 7136260.50143 0.212 0.067 713626058.50143 0.212 0.057 7136159.50144 0.198 0.063 0.023 0.057 7135856.50145 0.185 0.026 0.057 7135654.50146 0.172 0.066 0.027 0.057 7135755.50144 0.198					0.038				115
7472.501360.3050.0440.0120.0506117371.501370.2860.0460.0130.0516117270.501370.2800.0440.0130.0526117169.501370.2800.0500.0140.0536116967.501390.2640.0530.0160.0557116866.501390.2640.0160.0557116765.501400.2490.0560.0170.0567126664.501400.2410.0570.0180.0567126563.501410.2240.0560.0170.0567126462.501410.2240.0570.0577126260.501430.2120.0610.0220.0577126159.501440.1980.0630.0230.0577136260.501430.2120.0610.0240.0577135856.501440.1920.0660.0277135856.501440.1920.0660.0577135856.501440.1920.0660.0577135856.501440.1920.0660.0577135452.50<									116
7371.50136 0.296 0.046 0.013 0.051 6117270.50137 0.280 0.048 0.013 0.052 6117068.50137 0.220 0.051 0.015 0.054 6116967.50139 0.264 0.053 0.016 0.055 7126866.50139 0.264 0.056 0.016 0.055 7136765.50140 0.249 0.056 0.017 0.056 7136664.50140 0.241 0.057 0.018 0.056 7136361.50141 0.224 0.056 0.020 0.057 7136462.50141 0.226 0.059 0.202 0.057 7136260.50143 0.212 0.061 0.022 0.057 7136361.50143 0.212 0.061 0.023 0.057 7136465.50144 0.198 0.066 0.027 0.057 7136553.50144 0.192 0.066 0.057 7135654.50146 0.172 0.066 0.057 7135654.50146 0.172 0.066 0.057 7135654.50149 0.148 0.066 0.057 7145									116
72 70.50 137 0.288 0.048 0.013 0.052 6 11 71 69.50 137 0.280 0.050 0.014 0.063 6 11 70 68.50 138 0.272 0.051 0.015 0.055 7 11 69 67.50 139 0.264 0.053 0.016 0.055 7 11 68 66.50 139 0.256 0.054 0.016 0.055 7 11 66 64.50 140 0.249 0.056 0.017 0.056 7 12 66 64.50 140 0.241 0.057 0.018 0.056 7 12 64 62.50 141 0.224 0.059 0.020 0.057 7 12 64 62.50 141 0.224 0.060 0.021 0.057 7 12 61 59.50 143 0.212 0.061 0.022 0.057 7 12 66 54.50 144 0.198 0.063 0.023 0.057 7 12 59 57.50 144 0.198 0.066 0.024 0.057 7 12 56 54.50 146 0.179 0.066 0.027 0.057 7 12 57 55.50 146 0.172 0.066 0.057 7 12 54 52.50 147 0.166 0.067									117
71 69.50 137 0.280 0.055 0.014 0.053 6 11 70 68.50 138 0.272 0.051 0.015 0.054 6 11 69 67.50 139 0.264 0.053 0.016 0.055 7 11 68 66.50 139 0.266 0.054 0.0056 7 11 66 64.50 140 0.249 0.056 0.017 0.056 7 11 65 63.50 140 0.249 0.056 0.077 0.056 7 11 64 62.50 141 0.226 0.059 0.020 0.057 7 11 63 61.50 142 0.219 0.060 0.021 0.057 7 11 61 59.50 143 0.212 0.061 0.022 0.057 7 11 61 59.50 144 0.192 0.064 0.023 0.057 7 11 59 57.50 144 0.192 0.066 0.027 0.057 7 11 58 56.50 146 0.172 0.066 0.027 0.057 7 11 56 54.50 146 0.172 0.066 0.027 0.057 7 11 56 54.50 146 0.172 0.066 0.057 7 11 51 49.50 149 0.142 0.69 0.057 7 11									117
70 68.50 138 0.272 0.051 0.015 0.064 6 11 69 67.50 139 0.264 0.053 0.016 0.055 7 17 68 66.50 139 0.264 0.056 0.016 0.055 7 17 67 65.50 140 0.249 0.056 0.077 0.056 7 17 66 64.50 140 0.241 0.057 0.018 0.056 7 17 64 62.50 141 0.224 0.058 0.019 0.056 7 17 63 61.50 142 0.219 0.060 0.021 0.057 7 17 61 59.50 143 0.212 0.061 0.023 0.057 7 17 60 58.50 144 0.198 0.063 0.023 0.057 7 17 57 55.50 146 0.179 0.065 0.025 0.057 7 17 58 56.50 146 0.179 0.065 0.025 0.057 7 17 57 55.50 146 0.172 0.066 0.027 0.057 7 17 54 52.50 147 0.166 0.026 0.057 7 17 55 53.50 147 0.166 0.030 0.057 7 17 54 52.50 149 0.142 0.669 0.030 0.057 7 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>118</td></t<>									118
69 67.50 139 0.264 0.053 0.016 0.055 7 1168 66.50 139 0.256 0.054 0.016 0.055 7 1167 65.50 140 0.249 0.056 0.017 0.056 7 1166 64.50 140 0.241 0.057 0.018 0.056 7 1165 63.50 141 0.224 0.058 0.019 0.056 7 1163 61.50 142 0.219 0.060 0.021 0.057 7 1162 60.50 143 0.212 0.061 0.022 0.057 7 1161 59.50 143 0.225 0.062 0.023 0.057 7 1160 58.50 144 0.198 0.066 0.023 0.057 7 1158 56.50 145 0.185 0.066 0.025 0.057 7 1156 54.50 146 0.172 0.066 0.027 0.057 7 1156 54.50 146 0.179 0.066 0.027 0.057 7 1157 55.50 147 0.166 0.067 0.028 0.057 7 1154 52.50 147 0.166 0.067 0.028 0.057 7 1155 53.50 149 0.142 0.068 0.031 0.056 7 1154 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>119</td>									119
68 66.50 139 0.256 0.054 0.016 0.055 7 13 67 65.50 140 0.249 0.056 0.017 0.056 7 13 65 63.50 141 0.234 0.058 0.019 0.056 7 13 64 62.50 141 0.226 0.059 0.020 0.057 7 13 63 61.50 142 0.212 0.061 0.022 0.057 7 13 62 60.50 143 0.212 0.061 0.022 0.057 7 13 61 59.50 143 0.205 0.062 0.023 0.057 7 13 60 58.50 144 0.192 0.064 0.024 0.057 7 13 59 57.50 144 0.192 0.064 0.024 0.057 7 13 58 56.50 145 0.185 0.065 0.025 0.057 7 13 57 55.50 146 0.172 0.066 0.027 0.057 7 13 56 54.50 147 0.166 0.067 0.029 0.057 7 13 55 53.50 144 0.192 0.066 0.027 0.057 7 13 56 54.50 147 0.166 0.030 0.057 7 13 52 50.50 149 0.142 0.068									119
67 65.50 140 0.249 0.056 0.017 0.056 7 11 66 64.50 140 0.241 0.057 0.018 0.056 7 11 64 62.50 141 0.224 0.058 0.019 0.056 7 11 64 62.50 141 0.226 0.059 0.020 0.057 7 11 63 61.50 142 0.219 0.060 0.021 0.057 7 11 61 59.50 143 0.205 0.662 0.023 0.057 7 11 60 58.50 144 0.198 0.663 0.023 0.057 7 11 59 57.50 144 0.198 0.663 0.024 0.057 7 11 58 56.50 145 0.185 0.065 0.026 0.057 7 11 57 55.50 146 0.172 0.066 0.057 7 11 56 54.50 146 0.172 0.066 0.057 7 11 54 52.50 147 0.166 0.030 0.057 7 11 54 52.50 147 0.166 0.030 0.057 7 11 54 52.50 147 0.166 0.030 0.057 7 11 55 53.50 149 0.148 0.068 0.030 0.057 7 11 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>120</td></t<>									120
66 64.50 140 0.241 0.057 0.018 0.056 7 11 65 63.50 141 0.224 0.058 0.019 0.056 7 11 64 62.50 141 0.226 0.059 0.020 0.057 7 11 63 61.50 142 0.219 0.060 0.021 0.057 7 11 62 60.50 143 0.212 0.067 7 11 61 59.50 144 0.198 0.063 0.023 0.057 7 11 60 58.50 144 0.192 0.064 0.024 0.057 7 11 59 57.50 144 0.192 0.066 0.025 0.057 7 11 58 56.50 146 0.179 0.066 0.027 0.057 7 11 57 55.50 146 0.172 0.066 0.027 0.057 7 11 56 54.50 146 0.172 0.066 0.027 0.057 7 11 54 52.50 147 0.160 0.067 0.029 0.057 7 11 52 50.50 149 0.148 0.688 0.330 0.057 7 11 54 52.50 147 0.160 0.069 0.332 0.056 7 11 54 52.50 149 0.148 0.668 0.330									120
65 $63,50$ 141 0.234 0.058 0.019 0.056 7 12 64 62.50 141 0.226 0.059 0.020 0.057 7 12 63 61.50 142 0.219 0.660 0.021 0.057 7 12 62 60.50 143 0.212 0.661 0.022 0.057 7 12 61 59.50 143 0.205 0.662 0.023 0.057 7 12 60 58.50 144 0.198 0.663 0.023 0.057 7 12 59 57.50 144 0.192 0.664 0.024 0.057 7 12 58 56.50 145 0.185 0.665 0.025 0.057 7 11 58 56.50 146 0.179 0.666 0.026 0.057 7 11 56 54.50 146 0.179 0.666 0.026 0.057 7 11 55 53.50 147 0.160 0.67 0.228 0.057 7 11 54 52.50 147 0.160 0.67 0.229 0.057 7 11 52 50.50 149 0.148 0.668 0.300 0.057 7 11 51 49.50 149 0.142 0.669 0.311 0.566 7 11 49 47.50 150 0.136 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>121</td></t<>									121
64 62.50 141 0.226 0.059 0.020 0.057 7 11 63 61.50 142 0.219 0.060 0.021 0.057 7 11 62 60.50 143 0.212 0.061 0.022 0.057 7 11 61 59.50 143 0.205 0.062 0.023 0.057 7 11 60 58.50 144 0.198 0.063 0.023 0.057 7 11 59 57.50 144 0.192 0.064 0.024 0.057 7 11 58 56.50 145 0.185 0.065 0.025 0.057 7 11 57 55.50 146 0.172 0.066 0.027 0.057 7 11 56 54.50 146 0.172 0.066 0.027 0.057 7 11 54 52.50 147 0.166 0.067 0.29 0.057 7 11 54 52.50 147 0.160 0.067 0.029 0.057 7 11 52 50.50 149 0.148 0.068 0.030 0.057 7 11 51 48.50 150 0.131 0.069 0.033 0.056 7 11 54 52.50 150 0.131 0.069 0.033 0.056 7 11 54 48.50 150 0.131 <									121
63 61.50 142 0.219 0.060 0.021 0.057 7 11 62 60.50 143 0.212 0.061 0.022 0.057 7 11 61 59.50 143 0.205 0.062 0.023 0.057 7 11 60 58.50 144 0.198 0.663 0.023 0.057 7 11 59 57.50 144 0.192 0.064 0.024 0.057 7 11 58 56.50 145 0.185 0.065 0.025 0.057 7 11 57 55.50 146 0.179 0.066 0.027 0.057 7 11 56 54.50 146 0.172 0.066 0.027 0.057 7 11 54 52.50 147 0.166 0.067 0.028 0.057 7 11 54 52.50 147 0.166 0.067 0.027 0.057 7 11 52 50.50 149 0.142 0.068 0.030 0.057 7 11 51 49.50 149 0.142 0.069 0.031 0.056 7 11 48 46.50 151 0.125 0.070 0.034 0.056 7 11 49 47.50 152 0.120 0.070 0.034 0.055 7 11 46 44.88 38 0.117 <									122
62 60.50 143 0.212 0.061 0.022 0.057 7 11 61 59.50 143 0.205 0.062 0.023 0.057 7 11 50 58.50 144 0.198 0.063 0.023 0.057 7 11 59 57.50 144 0.192 0.064 0.024 0.057 7 11 58 56.50 145 0.185 0.065 0.026 0.057 7 11 58 56.50 146 0.172 0.066 0.027 0.057 7 11 56 54.50 146 0.172 0.066 0.027 0.057 7 11 56 54.50 147 0.166 0.067 0.028 0.057 7 11 54 52.50 147 0.166 0.067 0.029 0.057 7 11 53 51.50 148 0.154 0.068 0.030 0.057 7 11 52 50.50 149 0.142 0.069 0.031 0.056 7 11 51 49.50 149 0.142 0.069 0.032 0.056 7 11 49 47.50 150 0.131 0.069 0.033 0.056 7 11 44 46.50 151 0.125 0.070 0.035 0.055 2 21 45 44.38 132 0.114									123
61 59.50 143 0.205 0.062 0.023 0.057 7 11 60 58.50 144 0.198 0.063 0.023 0.057 7 11 59 57.50 144 0.192 0.064 0.024 0.057 7 11 58 56.50 145 0.185 0.065 0.025 0.057 7 11 57 55.50 146 0.179 0.065 0.026 0.057 7 11 56 54.50 146 0.172 0.066 0.027 0.057 7 11 56 54.50 147 0.166 0.067 0.028 0.057 7 11 54 52.50 147 0.166 0.067 0.028 0.057 7 11 53 51.50 149 0.148 0.068 0.030 0.057 7 11 52 50.50 149 0.142 0.069 0.031 0.056 7 11 51 49.50 150 0.136 0.069 0.033 0.056 7 11 49 47.50 150 0.131 0.069 0.033 0.056 7 11 48 46.50 151 0.125 0.070 0.034 0.055 7 11 46 44.38 38 0.117 0.070 0.035 0.055 8 11 44 45.50 177 0.105 <									123
									124
59 57.50 144 0.192 0.064 0.024 0.057 7 11 58 56.50 145 0.185 0.065 0.025 0.057 7 11 57 55.50 146 0.179 0.065 0.026 0.057 7 11 56 54.50 146 0.172 0.066 0.027 0.057 7 11 55 53.50 147 0.166 0.067 0.028 0.057 7 11 54 52.50 147 0.166 0.067 0.029 0.057 7 11 53 51.50 148 0.154 0.068 0.030 0.057 7 11 52 50.50 149 0.142 0.069 0.031 0.056 7 11 51 49.50 149 0.142 0.069 0.031 0.056 7 11 50 48.50 150 0.136 0.069 0.032 0.056 7 11 49 47.50 150 0.131 0.069 0.033 0.056 7 11 46 44.88 38 0.117 0.070 0.034 0.055 8 11 47 45.50 152 0.120 0.070 0.035 0.055 8 11 46 44.88 38 0.117 0.071 0.037 0.055 8 11 42 41.50 178 0.100 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>124</td></t<>									124
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$								7	125
57 55.50 146 0.179 0.065 0.026 0.057 7 11 56 54.50 146 0.172 0.066 0.027 0.057 7 11 55 53.50 147 0.166 0.067 0.028 0.057 7 11 54 52.50 147 0.160 0.067 0.029 0.057 7 11 53 51.50 148 0.154 0.068 0.030 0.057 7 11 52 50.50 149 0.142 0.069 0.030 0.057 7 11 51 49.50 149 0.142 0.069 0.031 0.056 7 11 50 48.50 150 0.136 0.069 0.032 0.056 7 11 49 47.50 150 0.131 0.069 0.033 0.056 7 11 48 46.50 151 0.125 0.070 0.034 0.055 7 11 47 45.50 152 0.120 0.070 0.034 0.055 7 11 46 44.88 38 0.117 0.070 0.035 0.055 8 11 44 43.50 176 0.110 0.071 0.037 0.055 8 11 44 43.50 176 0.100 0.071 0.038 0.054 8 11 42 41.50 178 0.0095									125
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$					0.065	0.026			126
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	56				0.066	0.027			126
54 52.50 147 0.160 0.067 0.029 0.057 7 11 53 51.50 148 0.154 0.068 0.030 0.057 7 11 52 50.50 149 0.148 0.068 0.030 0.057 7 11 51 49.50 149 0.142 0.069 0.031 0.056 7 11 50 48.50 150 0.136 0.069 0.032 0.056 7 11 49 47.50 150 0.136 0.069 0.033 0.056 7 11 48 46.50 151 0.125 0.070 0.034 0.056 7 11 47 45.50 152 0.120 0.070 0.034 0.055 7 11 46 44.88 38 0.117 0.070 0.035 0.055 2 11 44 43.50 176 0.110 0.071 0.036 0.055 8 11 44 43.50 177 0.105 0.071 0.037 0.055 8 11 42 41.50 178 0.100 0.071 0.038 0.054 8 11 40 39.50 179 0.090 0.071 0.038 0.054 8 11	55							7	127
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	54	52.50			0.067			7	127
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		51.50	148	0.154				7	128
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			149	0.148	0.068		0.057	7	128
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$									129
$\begin{array}{cccccccccccccccccccccccccccccccccccc$									129
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$									130
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$									130
4544.381320.1140.0700.0350.055614443.501760.1100.0710.0360.055814342.501770.1050.0710.0370.055814241.501780.1000.0710.0370.055814140.501790.0950.0710.0380.054814039.501790.0900.0710.0380.054813938.501800.0860.0710.0390.05481									131
4443.501760.1100.0710.0360.055814342.501770.1050.0710.0370.055814241.501780.1000.0710.0370.055814140.501790.0950.0710.0380.054814039.501790.0900.0710.0380.054813938.501800.0860.0710.0390.05481			38						33
4342.501770.1050.0710.0370.055814241.501780.1000.0710.0370.055814140.501790.0950.0710.0380.054814039.501790.0900.0710.0380.054813938.501800.0860.0710.0390.05481									114
4241.501780.1000.0710.0370.055814140.501790.0950.0710.0380.054814039.501790.0900.0710.0380.054813938.501800.0860.0710.0390.05481									152
4140.501790.0950.0710.0380.054814039.501790.0900.0710.0380.054813938.501800.0860.0710.0390.05481									153 153
40 39.50 179 0.090 0.071 0.038 0.054 8 1 39 38.50 180 0.086 0.071 0.039 0.054 8 1									153
39 38.50 180 0.086 0.071 0.039 0.054 8 1									154
									155
									155 156
		37.50	181	0.082	0.072		0.054	8	156 156

Site Number: 3 Site Name: C	02496 Sich - Colch	iester, CT		Engineering N		NSI/TIA-222- AA735982_0		© 2007 - 2018 by ATC	IP LLC. All rights reserve 7/2/2018 6:10:54 PN
Customer: A	T&T MOBI	LITY							
36		35.50	182	0.073	0.072	0.040	0.053	8	157
35		34.50	183	0.069	0.072	0.041	0.053	8	158
34		33.50	183	0.065	0.072	0.041	0.053	8	158
33 32		32.50 31.50	184 185	0.061 0.058	0.072 0.072	0.041 0.041	0.053 0.052	8 8	159 159
31		30.50	185	0.058	0.072	0.041	0.052	8	160
30		29.50	186	0.050	0.071	0.042	0.052	8	161
29		28.50	187	0.047	0.071	0.042	0.052	8	161
28		27.50	188	0.044	0.071	0.042	0.051	8	162
27		26.50	188	0.041	0.070	0.042	0.051	8	162
26		25.50	189	0.038	0.070	0.041	0.051	8	163
25		24.50	190	0.035	0.069	0.041	0.051	8	164
24		23.50	190	0.032	0.069	0.041	0.050	8	164
23		22.50	191	0.029	0.068	0.040	0.050	8	165
22		21.50	1 9 2	0.027	0.067	0.040	0.049	8	165
21		20.50	192	0.024	0.066	0.039	0.049	8	166
20		19.50	193	0.022	0.065	0.039	0.048	8	167
19		18.50	194	0.020	0.064	0.038	0.048	8	167
18		17.50	194	0.018	0.063	0.037 0.036	0.047	8	168
17 16		16.50 15.50	195 196	0.016 0.014	0.061 0.060	0.036	0.046 0.045	8 8	168 169
15		14.50	198	0.014	0.058	0.035	0.045	8	170
14		13.50	197	0.012	0.056	0.032	0.044	7	170
13		12.50	198	0.009	0.053	0.031	0.042	, 7	171
12		11.50	199	0.008	0.051	0.029	0.041	7	171
11		10.50	199	0.006	0.048	0.027	0.039	7	172
10		9.50	200	0.005	0.045	0.026	0.037	6	173
9		8.50	201	0.004	0.042	0.024	0.035	6	173
8		7.50	201	0.003	0.038	0.021	0.033	6	174
7		6.50	202	0.002	0.035	0.019	0.031	5	174
6		5.50	203	0.002	0.030	0.017	0.028	5	175
5 .		4.50	203	0.001	0.026	0.014	0.024	4	176
4		3.50	204	0.001	0.021	0.011	0.020	4	176
3		2.50	205	0.000	0.015	0.008	0.016	3	177
2		1.50 0.50	206 206	0.000 0.000	0.010	0.005 0.002	0.010 0.004	2	177 178
Kaelus DBC00	61F1V51.	180.00	206	1.878	0.003 1.916	1.117	0.004	1 22	66
Raycap DC6-48		180.00	20	1.878	1.916	1.117	0.339	6	17
Powerwave LG		180.00	186	1.878	1.916	1.117	0.339	55	161
Ericsson RRUS		180.00	162	1.878	1.916	1.117	0.339	48	140
Ericsson RRUS		180.00	159	1.878	1.916	1.117	0.339	47	137
KMW AM-X-CD		180.00	36	1.878	1.916	1.117	0.339	11	31
Powerwave 77	70.00	180.00	105	1.878	1.916	1.117	0.339		91
Quintel QS465		180.00	104	1.878	1.916	1.117	0.339	31	90
Andrew SBNH-		180.00	132	1.878	1.916	1.117	0.339	39	114
CCI TPA-65R-L		180.00	163	1.878	1.916	1.117	0.339		141
Round Platforr	m w/ Ha	180.00	2,000	1.878	1.916	1.117	0.339	587	1,726
			23,666	136.663	48.331	41.873	11.733	1,622	20,426

Code: ANSI/TIA-222-G

© 2007 - 2018 by ATC IP LLC. All rights reserved. 7/2/2018 6:10:54 PM

Site Name:Clch - Colchester, CTCustomer:AT&T MOBILITY

Engineering Number: OAA735982_C3_01

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

Calculated Forces

	Seg Elev	Ри FY (-)	Vu FX (-)	Tu MY	Mu MZ	Mu MX	Resultant Moment		phi Pn	phi Vn	phi Tn	phi Mn	Total Deflect	Rotation	
_	(ft)	(kips)		(ft-kips)	(ft-kips) ((ft-kips)		(kips)	(kips)		(ft-kips)	(in)	(deg)	Ratio
	0.00	-29.02	-1.62	0.00	-236.58	0.00	236.58	4,	173.88	2,086.94	7,090.68	3,501.82	0.00	0.00	0.075
	1.00	-28.76	-1.62		-234.96	0.00	234.96	4,	164.30	2,082.15	7,049.35	3,481.41	0.00	-0.01	0.074
	2.00 3.00	-28.51 -28.26	-1.62 -1.62		-233.34 -231.71	0.00 0.00	233.34 231.71			2,077.34 2,072.51			0.00 0.01	-0.01 -0.02	0.074 0.074
	4.00	-28.01	-1.62		-230.09	0.00	230.09			2,072.51			0.01	-0.02	0.074
	5.00	-27.75	-1.62		-228.47	0.00	228.47			2,062.80			0.01	-0.03	0.074
	6.00	-27.50	-1.61	0.00	-226.86	0.00	226.86			2,057.92			0.02	-0.03	0.074
	7.00	-27.25	-1.61	0.00	-225.24	0.00	225.24			2,053.02			0.03	-0.04	0.074
	8.00 9.00	-27.01 -26.76	-1.61 -1.60	0.00 0.00	-223.63 -222.03	0.00 0.00	223.63 222.03			2,048.10 2,043.16			0.04 0.05	-0.04 -0.05	0.074 0.073
	10.00	-26.51	-1.60		-220.43	0.00	220.43			2,043.10			0.05	-0.05	0.073
	11.00	-26.27	-1.59		-218.83	0.00	218.83			2,033.24			0.07	-0.06	0.073
	12.00	-26.02	-1.59		-217.23	0.00	217.23			2,028.25	-		0.08	-0.07	0.073
	13.00	-25.78	-1.58		-215.65	0.00	215.65			2,023.25			0.10	-0.07	0.073
	14.00 15.00	-25.53 -25.29	-1.58 -1.57		-214.06 -212.49	0.00 0.00	214.06 212.49			2,018.22 2,013.18			0.11 0.13	-0.08 -0.08	0.073 0.073
	16.00	-25.05	-1.57		-210.91	0.00	210.91			2,008.12			0.15	-0.09	0.073
	17.00	-24.81	-1.56	0.00	-209.35	0.00	209.35	4,	006.09	2,003.05	6,396.13	3,158.81	0.16	-0.09	0.072
	18.00	-24.57	-1.55		-207.79	0.00	207.79			1,997.95			0.18	-0.10	0.072
	19.00 20.00	-24.33 -24.09	-1.55 -1.54		-206.23 -204.68	0.00 0.00	206.23			1,992.84			0.21	-0.10 -0.11	0.072 0.072
	20.00	-23.86	-1.54		-204.00	0.00	204.68 203.14			1,987.71 1,982.56			0.23 0.25	-0.11	0.072
	22.00	-23.62	-1.53		-201.61	0.00	201.61			1,977.24			0.28	-0.12	0.072
	23.00	-23.38	-1.52		-200.08	0.00	200.08			1,969.74			0.30	-0.13	0.072
	24.00	-23.15	-1.52		-198.55	0.00	198.55			1,962.23			0.33	-0.13	0.072
	25.00 26.00	-22.91 -22.68	-1.51 -1.50		-197.04 -195.53	0.00 0.00	197.04 195.53			1,954.73 1,947.22	•	•	0.36 0.39	-0.14 -0.14	0.072 0.072
	27.00	-22.45	-1.50		-194.02	0.00	193.03			1,939.72	-		0.35	-0.14	0.072
	28.00	-22.22	-1.49		-192.53	0.00	192.53			1,932.22			0.45	-0.16	0.072
	29.00	-21.99	-1.48		-191.04	0.00	191.04	3,	849.42	1,924.71	5,868.24	2,898.10	0.48	-0.16	0.072
	. 30.00 . 31.00	-21.76 -21.53	-1.48		-189.56	0.00	189.56			1,917.21			0.52	-0.17	0.072
	32.00	-21.33	-1.47 -1.46		-188.08 -186.61	0.00 0.00	188.08 186.61			1,909.70 1,902.20			0.55 0.59	-0.17 -0.18	0.072 0.072
	33.00	-21.08	-1.46		-185.15	0.00	185.15			1,894.70			0.63	-0.19	0.072
	34.00	-20.85	-1.45		-183.69	0.00	183.69			1,887.19			0.67	-0.19	0.071
	35.00	-20.62	-1.44		-182.24	0.00	182.24			1,879.69			0.71	-0.20	0.071
	36.00 37.00	-20.40 -20.18	-1.43 -1.43		-180.80 -179.37	0.00 0.00	180.80 179.37			1,872.18 1,864.68			0.75 0.80	-0.20 -0.21	0.071 0.071
	38.00	-19.95	-1.42		-177.94	0.00	175.57	-		1,857.18			0.80		0.071
	39.00	-19.73	-1.41	0.00	-176.52	0.00	176.52			1,849.67			0.89	-0.22	0.071
	40.00	-19.51	-1.41		-175.10	0.00	175.10			1,842.17	•	•	0.93		0.071
	41.00	-19.29	-1.40		-173.70	0.00	173.70			1,834.66					0.071
	42.00 43.00	-19.07 -18.85	-1.39 -1.38		-172.30 -170.91	0.00 0.00	172.30 170.91	3,	654.32 630 31	1,827.16 1,819.66	5,285.17	2,610.15	1.03 1.08	-0.24 -0.25	0.071 0.071
	44.00	-18.69	-1.38		-169.52	0.00	169.52			1,812.15			1.14		0.071
	44.75	-18.64	-1.38		-168.49	0.00	168.49			1,806.52			1.18		0.071
	44.75	-18.64	-1.38		-168.49	0.00	168.49	3,	037.33	1,518.66	4,358.22	2,152.36			0.084
	45.00 46.00	-18.45 -18.27	-1.37 -1.37		-168.14 -166.77	0.00	168.14 166.77			1,517.62			1.19		0.084 0.084
	46.00	-18.08	-1.37		-165.41	0.00 0.00	165.41			1,513.44			1.24 1.30		0.084
	48.00	-17.90	-1.35		-164.05	0.00	164.05			1,505.04					0.084
	49.00	-17.71	-1.35		-162.69	0.00	162.69	3,	001.62	1,500.81	4,230.28	2,089.17	1.42		0.084
	50.00	-17.53	-1.34		-161.35	0.00	161.35			1,496.56			1.48		0.084
	51.00 52.00	-17.34 -17.16	-1.34 -1.33		-160.00 -158.67	0.00 0.00	160.00 158.67			1,492.30			1.54 1.61		0.083 0.083
	53.00	-16.98	-1.32		-157.34	0.00	157.34			1,483.71					0.083

© 2007 - 2018 by ATC IP LLC. All rights reserved.

Site Name: Clch - Colchester, CT

Engineering Number: OAA735982_C3_01

7/2/2018 6:10:54 PM

	&T MOBILITY	Engin		: OAA735962_C3_01	11212018 0.1	
	-1.32 0.00 -1.31 0.00 -1.31 0.00 -1.31 0.00 -1.31 0.00 -1.31 0.00 -1.29 0.00 -1.29 0.00 -1.29 0.00 -1.28 0.00 -1.28 0.00 -1.28 0.00 -1.26 0.00 -1.25 0.00 -1.25 0.00 -1.25 0.00 -1.25 0.00 -1.22 0.00 -1.21 0.00 -1.20 0.00 -1.19 0.00 -1.18 0.00 -1.18 0.00 -1.16 0.00 -1.17 0.00	-156.01 0.00 -154.69 0.00 -153.38 0.00 -152.08 0.00 -150.78 0.00 -149.48 0.00 -149.48 0.00 -148.20 0.00 -146.91 0.00 -144.37 0.00 -144.37 0.00 -144.37 0.00 -141.85 0.00 -141.85 0.00 -139.35 0.00 -139.35 0.00 -138.11 0.00 -136.87 0.00 -135.64 0.00 -135.64 0.00 -131.29 0.00 -129.58 0.00 -129.58 0.00 -129.58 0.00 -129.58 0.00 -124.82 0.00 -124.	156.01 154.69 153.38 152.08 150.78 149.48 148.20 146.91 145.64 144.37 143.10 141.85 140.59 139.35 138.11 136.87 135.64 134.42 133.20 131.99 130.78 129.58 128.38 129.58 128.38 127.19 126.00 124.82 123.64 122.46 121.28 123.64 122.46 121.28 120.11 118.95 117.78 116.91 116.91 116.62 115.46 114.29 113.13	2,958.79 1,479.39 4,080.96 2,015.43 2,950.11 1,475.06 4,051.26 2,000.76 2,941.41 1,470.70 4,021.62 1,986.12 2,932.66 1,466.33 3,992.03 1,971.51 2,923.89 1,461.94 3,962.50 1,956.93 2,915.07 1,457.54 3,933.03 1,942.37 2,906.28 1,453.14 3,903.69 1,927.89 2,893.42 1,446.71 3,869.02 1,910.76 2,880.56 1,440.28 3,834.50 1,893.71 2,867.69 1,433.85 3,800.13 1,876.74 2,854.83 1,427.41 3,765.92 1,859.84 2,841.96 1,420.98 3,731.86 1,843.02 2,829.10 1,414.55 3,697.96 1,826.28 2,816.24 1,408.12 3,664.21 1,809.61 2,803.37 1,401.69 3,630.61 1,793.02 2,790.51 1,395.25 3,597.18 1,776.51 2,777.64 1,388.82 3,563.89 1,760.07 2,764.78 1,382.39 3,530.76 1,743.71 2,751.92 1,375.96 3,497.79 1,727.43 2,739.05 1,369.53 3,464.97 1,711.22 2,726.19 1,363.09 3,432.30 1,695.08 2,713.32 1,356.66 3,399.79 1,679.03 2,700.46 1,350.23 3,367.44 1,663.05 2,687.60 1,343.80 3,335.24 1,647.15 2,674.73 1,337.37 3,303.19 1,631.32 2,661.87 1,330.93 3,271.30 1,615.57 2,649.00 1,324.50 3,239.56 1,599.90 2,636.14 1,318.07 3,207.98 1,584.30 2,623.28 1,311.64 3,176.55 1,568.78 2,610.41 1,305.21 3,145.28 1,553.33 2,597.55 1,298.77 3,114.16 1,537.97 2,584.68 1,292.34 3,083.20 1,522.68 2,575.04 1,287.52 3,060.08 1,511.26 1,544.73 772.37 1,851.60 914.44 1,543.70 771.85 1,848.04 912.68 1,539.55 769.77 1,833.81 905.65 1,535.36 767.68 1,819.59 898.63 1,531.13 765.57 1,805.38 891.61 1,526.87 763.44 1,791.17 884.59	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0.083 0.083 0.083 0.083 0.083 0.082 0.0135 0.135 0.135
$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	$\begin{array}{cccccc} -1.17 & 0.00 \\ -1.17 & 0.00 \\ -1.17 & 0.00 \\ -1.17 & 0.00 \\ -1.17 & 0.00 \\ -1.17 & 0.00 \\ -1.18 & 0.00 \\ -1.18 & 0.00 \\ -1.18 & 0.00 \\ -1.19 & 0.00 \\ -1.19 & 0.00 \\ -1.19 & 0.00 \\ -1.20 & 0.00 \\ -1.20 & 0.00 \\ -1.20 & 0.00 \\ -1.20 & 0.00 \\ -1.20 & 0.00 \\ -1.20 & 0.00 \\ -1.20 & 0.00 \\ -1.20 & 0.00 \\ -1.20 & 0.00 \\ -1.20 & 0.00 \\ -1.21 & 0.00 \\ -1.22 & 0.00 \\ -1.22 & 0.00 \\ -1.22 & 0.00 \\ -1.23 & 0.00 \\ -1.23 & 0.00 \\ -1.23 & 0.00 \\ -1.24 & 0.00 \\ -1.25 & 0.00 \\ -1.25 & 0.00 \\ -1.25 & 0.00 \\ -1.25 & 0.00 \\ \end{array}$	$\begin{array}{ccccc} -110.80 & 0.00 \\ -109.63 & 0.00 \\ -108.47 & 0.00 \\ -107.30 & 0.00 \\ -107.30 & 0.00 \\ -107.30 & 0.00 \\ -107.30 & 0.00 \\ -104.95 & 0.00 \\ -103.77 & 0.00 \\ -102.59 & 0.00 \\ -102.59 & 0.00 \\ -102.59 & 0.00 \\ -99.04 & 0.00 \\ -99.04 & 0.00 \\ -97.85 & 0.00 \\ -97.85 & 0.00 \\ -97.85 & 0.00 \\ -97.85 & 0.00 \\ -97.85 & 0.00 \\ -93.04 & 0.00 \\ -93.04 & 0.00 \\ -91.83 & 0.00 \\ -91.83 & 0.00 \\ -90.61 & 0.00 \\ -89.39 & 0.00 \\ -88.16 & 0.00 \\ -86.93 & 0.00 \\ -85.70 & 0.00 \\ -83.21 & 0.00 \\ -81.96 & 0.00 \\ \end{array}$	$\begin{array}{c} 109.63\\ 108.47\\ 107.30\\ 106.12\\ 104.95\\ 103.77\\ 102.59\\ 101.41\\ 100.23\\ 99.04\\ 97.85\\ 96.65\\ 95.45\\ 94.25\\ 93.04\\ 91.83\\ 90.61\\ 89.39\\ 88.16\\ 86.93\\ 85.70\\ 84.46\\ 83.21\\ \end{array}$	1,522.58 761.29 $1,776.98$ 877.58 $1,518.25$ 759.12 $1,762.79$ 870.58 $1,513.88$ 756.94 $1,748.62$ 863.58 $1,509.48$ 754.74 $1,734.46$ 856.59 $1,505.04$ 752.52 $1,720.31$ 849.60 $1,500.57$ 750.29 $1,706.18$ 842.62 $1,496.06$ 748.03 $1,692.06$ 835.64 $1,491.52$ 745.76 $1,677.95$ 828.68 $1,486.94$ 743.47 $1,663.86$ 821.72 $1,482.33$ 741.16 $1,649.78$ 814.77 $1,477.68$ 738.84 $1,635.72$ 807.82 $1,473.00$ 736.50 $1,621.68$ 800.89 $1,468.28$ 734.14 $1,607.66$ 793.96 $1,463.52$ 731.76 $1,593.65$ 787.04 $1,458.73$ 729.37 $1,579.66$ 780.14 $1,453.91$ 726.95 $1,565.69$ 773.24 $1,449.04$ 724.52 $1,551.74$ 766.35 $1,444.15$ 722.07 $1,537.82$ 759.47 $1,439.21$ 719.61 $1,523.91$ 752.60 $1,424.21$ 712.10 $1,482.33$ 732.07 $1,429.24$ 714.62 $1,496.17$ 738.90 $1,424.21$ 712.10 $1,454.73$ 718.43 $1,408.88$ 704.44 $1,440.96$ 711.64	5.440.66 5.58 -0.67 5.72 -0.68 5.86 -0.70 6.01 -0.71 6.16 -0.72 6.31 -0.74 6.63 -0.76 6.63 -0.76 6.79 -0.78 6.96 -0.79 7.12 -0.81 7.29 -0.82 7.47 -0.84 7.64 -0.85 8.01 -0.88 8.19 -0.89 8.38 -0.91 8.57 -0.92 8.77 -0.94 8.96 -0.95 9.16 -0.97 9.37 -0.98	0.133 0.133 0.132 0.132 0.132 0.132 0.131 0.131 0.131 0.130 0.130 0.130 0.129 0.128 0.128 0.128 0.127 0.126 0.126 0.126 0.126 0.126 0.126 0.127 3.0.126 0.127 3.0.126 0.127 3.0.126 0.127 3.0.126 0.127 3.0.126 0.127 3.0.123

Site Numb	er: 3024	496				Code	: ANSI/TIA-22	22-G	© 2007 -	2018 by AT	C IP LLC.	All rights	reserved.
Site Name Customer:		r - Colch∉ ₄T MOBIL			Enginee	ring Numbe	r: OAA735982	2_C3_01			7/2/2	018 6:10	:54 PM
				-80.71 -79.45 -78.19 -76.92 -75.65 -74.38 -73.10 -71.82 -70.53 -69.24 -68.59 -67.94 -66.55 -65.34 -64.04 -62.73 -61.42 -60.11 -58.79 -57.48 -54.84 -53.51 -52.19 -50.87 -49.54	0.00 0.00	80.71 79.45 78.19 76.92 75.65 74.38 73.10 71.82 70.53 69.24 68.59 67.94 68.59 67.94 66.65 65.34 64.04 62.73 61.42 60.11 58.79 57.48 56.16 54.84 53.51 52.19 50.87 49.54	1,403.70 1,398.48 1,393.23 1,387.95 1,382.63 1,377.27 1,371.88 1,366.45 1,360.99 1,355.49 1,352.73 1,127.00 1,124.94 1,120.78 1,116.59 1,112.36 1,108.10 1,099.47 1,095.10 1,099.47 1,095.10 1,090.69 1,086.26 1,081.78 1,077.27 1,072.73 1,068.14 1,063.53	701.85 699.24 696.62 693.97 691.31 688.64 683.23 680.49 677.74 676.36 563.50 562.47 560.39 556.18 554.05 551.90 549.73	1,427.22 1,413.51 1,399.83 1,386.17 1,372.54 1,358.94 1,345.37 1,331.83 1,318.33 1,318.33 1,304.85 1,298.12 1,084.41 1,079.04 1,068.31 1,079.04 1,068.31 1,079.04 1,068.31 1,079.04 1,068.31 1,079.04 1,068.31 1,079.04 1,025.58 1,014.94 1,004.33 993.73 993.75 972.60 962.07 951.56 941.07 930.61	704.85 698.08 691.32 684.58 677.85 671.13 664.43 657.74 651.07 644.42 641.09 535.55 532.90 527.60 522.31 517.03 511.76 506.50 501.24 496.00 490.77 485.54 496.00 490.77 485.513 469.94 464.76 459.59	9.78 10.00 10.21 10.43 10.65 10.88 11.11 11.34 11.57 11.81 11.93 12.05 12.30 12.55 12.80 13.05 13.31 13.57 13.84 14.11 14.38 14.65 14.93 15.22 15.50 15.79	-1.01 -1.02 -1.04 -1.05 -1.07 -1.08 -1.10 -1.11 -1.13 -1.14 -1.15 -1.15 -1.16 -1.17 -1.21 -1.22 -1.24 -1.26 -1.28 -1.29 -1.31 -1.33 -1.34 -1.36 -1.37 -1.39	0.120 0.120 0.120 0.119 0.118 0.117 0.117 0.116 0.115 0.114 0.113 0.135 0.134 0.133 0.132 0.134 0.133 0.132 0.129 0.128 0.126 0.125 0.123 0.122 0.120 0.120
$\begin{array}{c} 141.00\\ 142.00\\ 143.00\\ 144.00\\ 145.00\\ 146.00\\ 146.00\\ 146.00\\ 149.00\\ 150.00\\ 150.00\\ 151.00\\ 152.00\\ 155.00\\ 155.00\\ 156.00\\ 156.00\\ 156.00\\ 156.00\\ 156.00\\ 159.00\\ 160.00\\ 160.00\\ 161.00\\ \end{array}$	$\begin{array}{r} -6.35\\ -6.28\\ -6.20\\ -6.13\\ -6.06\\ -5.99\\ -5.92\\ -5.85\\ -5.78\\ -5.71\\ -5.64\\ -5.57\\ -5.50\\ -5.43\\ -5.37\\ -5.30\\ -5.23\\ -5.10\\ -5.04\\ -4.97\end{array}$	-1.33 -1.33 -1.32 -1.32 -1.32 -1.32 -1.32 -1.32 -1.31 -1.31 -1.30 -1.30 -1.30 -1.29 -1.28 -1.27 -1.27 -1.26 -1.25	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	-48.22 -46.89 -45.57 -44.24 -42.92 -41.60 -40.27 -38.96 -37.64 -36.32 -35.01 -33.71 -32.40 -31.10 -29.80 -28.51 -27.23 -25.95 -24.67 -23.40 -22.14	0.00 0.00	48.22 46.89 45.57 44.24 42.92 41.60 40.27 38.96 37.64 36.32 35.01 33.71 32.40 31.10 29.80 28.51 27.23 25.95 24.67 23.40 22.14	$\begin{array}{c} 1,058.88\\ 1,054.19\\ 1,049.47\\ 1,044.71\\ 1,039.92\\ 1,035.09\\ 1,035.09\\ 1,030.22\\ 1,025.32\\ 1,025.32\\ 1,025.32\\ 1,015.42\\ 1,010.41\\ 1,005.37\\ 1,000.30\\ 995.19\\ 990.04\\ 983.06\\ 975.56\\ 968.05\\ 960.55\\ 960.55\\ 960.55\\ 953.04\\ 945.54\end{array}$	529.44 527.09 524.73 522.35 519.96 517.54 515.11 512.66 510.19 507.71 505.21 502.69 500.15 497.59 495.02 491.53 487.78 484.03 480.27 476.52 472.77	920.17 909.76 899.37 889.01 878.68 868.38 868.38 858.10 847.86 837.64 827.46 817.30 807.18 797.09 787.03 777.01 765.62 753.91 742.29 730.76 719.32 707.97	454.44 449.30 444.17 439.05 433.95 428.86 423.79 418.72 413.68 408.65 403.63 398.64 393.65 388.69 383.74 378.11 372.33 366.59 360.90 355.25 349.64	$\begin{array}{c} 16.09\\ 16.38\\ 16.68\\ 16.98\\ 17.29\\ 17.60\\ 17.91\\ 18.23\\ 18.55\\ 18.87\\ 19.20\\ 19.52\\ 19.85\\ 20.19\\ 20.53\\ 20.87\\ 21.21\\ 21.55\\ 21.90\\ 22.25\\ 22.61\\ \end{array}$	-1.41 -1.42 -1.44 -1.45 -1.47 -1.49 -1.50 -1.52 -1.53 -1.55 -1.56 -1.57 -1.59 -1.60 -1.62 -1.63 -1.64 -1.65 -1.67 -1.68 -1.69	0.112 0.100 0.107 0.105 0.103 0.101 0.099 0.097 0.095 0.092 0.090 0.088 0.085 0.083 0.081 0.078 0.076 0.074 0.071 0.069
162.00 163.00 164.00 165.00 166.00 167.00 169.00 170.00 171.00 172.00 172.00 173.00 174.00 175.00 176.00 177.00	-4.91 -4.84 -4.78 -4.72 -4.65 -4.59 -4.53 -4.47 -4.41 -4.35 -4.29 -4.23 -4.17 -4.11 -4.06 -4.00	-1.25 -1.24 -1.23 -1.22 -1.21 -1.20 -1.19 -1.18 -1.17 -1.16 -1.15 -1.14 -1.12 -1.11 -1.10 -1.08	0.00 0.00	-20.89 -19.64 -18.40 -17.17 -15.95 -14.73 -13.53 -12.34 -11.15 -9.98 -8.82 -7.67 -6.54 -5.41 -4.30 -3.20	0.00 0.00	20.89 19.64 18.40 17.17 15.95 14.73 13.53 12.34 11.15 9.98 8.82 7.67 6.54 5.41 4.30 3.20	938.04 930.53 923.03 915.52 908.02 900.52 893.01 885.51 878.00 870.50 863.00 855.49 847.99 840.48 832.98 825.48	469.02 465.27 461.51 457.76 454.01 450.26 446.51 442.75 439.00 435.25 431.50 427.75 423.99 420.24 416.49 412.74	685.54 674.47 663.48 652.58 641.77 631.06 620.43 609.89 599.45 589.09 578.82 568.65 558.56 548.57	344.08 338.56 333.09 327.67 322.29 316.95 311.65 306.41 301.20 296.04 290.93 285.86 280.83 275.85 270.92 266.02	22.96 23.32 23.68 24.04 24.40 24.77 25.14 25.51 25.88 26.25 26.63 27.00 27.38 27.76 28.13 28.51	-1.70 -1.71 -1.72 -1.73 -1.74 -1.75 -1.76 -1.77 -1.78 -1.78 -1.79 -1.80 -1.80 -1.81 -1.81	0.066 0.063 0.058 0.055 0.052 0.048 0.045 0.045 0.042 0.039 0.035 0.032 0.028 0.025 0.021 0.017

Site Numt Site Name Customer	496 1 - Colche 4T MOBIL			Code: ANSI/TIA-222-G Engineering Number: OAA735982_C3_01					© 2007 - 2018 by ATC IP LLC. All rights reserved 7/2/2018 6:10:54 PM				
178.00	-3.94	-1.07	0.00	-2.12	0.00	2.12	817.97	408.99	528.85	261.18	28.89	-1.81	0.013
179.00	-3.88	-1.05	0.00	-1.05	0.00	1.05	810.47	405.23	519.12	256.38	29.27	-1.81	0.009
180.00	0.00	0.00	0.00	0.00	0.00	0.00	802.96	401.48	509.49	251.62	29.65	-1.81	0.000
180.58	0.00	0.00	0.00	0.00	0.00	0.00	798.59	399.29	503.91	248.86	29.87	-1.81	0.000

Code: ANSI/TIA-222-G

© 2007 - 2018 by ATC IP LLC. All rights reserved. 7/2/2018 6:10:54 PM

Site Name: Clch - Colchester, CT Customer: AT&T MOBILITY Engineering Number: OAA735982_C3_01

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

Calculated Forces

$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Ratio
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	0.071
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0.070 0.070
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	0.070
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	0.070
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0.070
8.00 -18.84 -1.60 0.00 -216.98 0.00 216.98 4,096.20 2,048.10 6,761.66 3,339.33 0.04 -0.04 9.00 -18.67 -1.59 0.00 -215.38 0.00 215.38 4,096.20 2,048.10 6,761.66 3,339.33 0.04 -0.04 9.00 -18.67 -1.59 0.00 -215.38 0.00 215.38 4,086.33 2,043.16 6,720.80 3,319.15 0.04 -0.05 10.00 -18.50 -1.59 0.00 -213.79 0.00 213.79 4,076.42 2,038.21 6,680.00 3,299.00 0.05 -0.05 11.00 -18.33 -1.58 0.00 -212.20 0.00 212.20 4,066.48 2,033.24 6,639.26 3,278.88 0.07 -0.06 12.00 -18.16 -1.58 0.00 -209.04 0.00 209.04 4,046.49 2,023.25 6,557.96 3,238.73 0.09 -0.07 14.00 -17.82 -1.57 0.00 -207.47 0.00 207.47 4,036.45 2,018.22	0.070 0.070
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	0.070
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	0.069
12.00 -18.16 -1.58 0.00 -210.62 0.00 210.62 4,056.51 2,028.25 6,598.58 3,258.79 0.08 -0.06 13.00 -17.99 -1.57 0.00 -209.04 0.00 209.04 4,046.49 2,023.25 6,557.96 3,238.73 0.09 -0.07 14.00 -17.82 -1.57 0.00 -207.47 0.00 207.47 4,036.45 2,018.22 6,517.41 3,218.70 0.11 -0.07 15.00 -17.65 -1.56 0.00 -205.90 0.00 205.90 4,026.36 2,013.18 6,476.92 3,198.71 0.12 -0.08 16.00 -17.48 -1.55 0.00 -204.34 0.00 204.34 4,016.25 2,008.12 6,436.49 3,178.74 0.14 -0.08 17.00 -17.31 -1.55 0.00 -202.79 0.00 202.79 4,006.09 2,003.05 6,396.13 3,158.81 0.16 -0.09	0.069 0.069
13.00 -17.99 -1.57 0.00 -209.04 0.00 209.04 4,046.49 2,023.25 6,557.96 3,238.73 0.09 -0.07 14.00 -17.82 -1.57 0.00 -207.47 0.00 207.47 4,036.45 2,018.22 6,517.41 3,218.70 0.11 -0.07 15.00 -17.65 -1.56 0.00 -205.90 0.00 205.90 4,026.36 2,013.18 6,476.92 3,198.71 0.12 -0.08 16.00 -17.48 -1.55 0.00 -204.34 0.00 204.34 4,016.25 2,008.12 6,436.49 3,178.74 0.14 -0.08 17.00 -17.31 -1.55 0.00 -202.79 0.00 202.79 4,006.09 2,003.05 6,396.13 3,158.81 0.16 -0.09	0.069
15.00 -17.65 -1.56 0.00 -205.90 0.00 205.90 4,026.36 2,013.18 6,476.92 3,198.71 0.12 -0.08 16.00 -17.48 -1.55 0.00 -204.34 0.00 204.34 4,016.25 2,008.12 6,436.49 3,178.74 0.14 -0.08 17.00 -17.31 -1.55 0.00 -202.79 0.00 202.79 4,006.09 2,003.05 6,396.13 3,158.81 0.16 -0.09	0.069
16.00 -17.48 -1.55 0.00 -204.34 0.00 204.34 4,016.25 2,008.12 6,436.49 3,178.74 0.14 -0.08 17.00 -17.31 -1.55 0.00 -202.79 0.00 202.79 4,006.09 2,003.05 6,396.13 3,158.81 0.16 -0.09	0.069 0.069
17.00 -17.31 -1.55 0.00 -202.79 0.00 202.79 4,006.09 2,003.05 6,396.13 3,158.81 0.16 -0.09	0.069
18.00 -17.14 -1.54 0.00 -201.24 0.00 201.24 3.995.91.1.997.95.6.355.84.3.138.91 0.18 -0.10	0.069
	0.068
19.00 -16.98 -1.53 0.00 -199.70 0.00 199.70 3,985.68 1,992.84 6,315.61 3,119.04 0.20 -0.10 20.00 -16.81 -1.53 0.00 -198.17 0.00 198.17 3,975.42 1,987.71 6,275.45 3,099.21 0.22 -0.11	0.068 0.068
21.00 -16.65 -1.52 0.00 -196.64 0.00 196.64 3,965.13 1,982.56 6,235.36 3,079.41 0.24 -0.11	0.068
22.00 -16.48 -1.51 0.00 -195.13 0.00 195.13 3,954.48 1,977.24 6,194.84 3,059.40 0.27 -0.12 23.00 -16.32 -1.51 0.00 -193.61 0.00 193.61 3.939.47 1.969.74 6,147.64 3,036.09 0.29 -0.12	0.068
23.00 -16.32 -1.51 0.00 -193.61 0.00 193.61 3,939.47 1,969.74 6,147.64 3,036.09 0.29 -0.12 24.00 -16.15 -1.50 0.00 -192.11 0.00 192.11 3,924.46 1,962.23 6,100.62 3,012.87 0.32 -0.13	0.068 0.068
25.00 -15.99 -1.49 0.00 -190.61 0.00 190.61 3,909.45 1,954.73 6,053.78 2,989.74 0.35 -0.13	0.068
26.00 -15.83 -1.48 0.00 -189.12 0.00 189.12 3,894.45 1,947.22 6,007.13 2,966.69 0.38 -0.14	0.068
27.00 -15.66 -1.48 0.00 -187.64 0.00 187.64 3,879.44 1,939.72 5,960.65 2,943.74 0.41 -0.15 28.00 -15.50 -1.47 0.00 -186.16 0.00 186.16 3,864.43 1,932.22 5,914.36 2,920.88 0.44 -0.15	0.068 0.068
29.00 -15.34 -1.46 0.00 -184.69 0.00 184.69 3,849.42 1,924.71 5,868.24 2,898.10 0.47 -0.16	0.068
30.00 -15.18 -1.45 0.00 -183.23 0.00 183.23 3,834.41 1,917.21 5,822.31 2,875.42 0.50 -0.16	0.068
31.00 -15.02 -1.45 0.00 -181.77 0.00 181.77 3,819.41 1,909.70 5,776.55 2,852.82 0.54 -0.17 32.00 -14.86 -1.44 0.00 -180.33 0.00 180.33 3.804.40 1.902.20 5,730.98 2.830.32 0.57 -0.17	0.068 0.068
32.00 -14.86 -1.44 0.00 -180.33 0.00 180.33 3,804.40 1,902.20 5,730.98 2,830.32 0.57 -0.17 33.00 -14.70 -1.43 0.00 -178.89 0.00 178.89 3,789.39 1,894.70 5,685.59 2,807.90 0.61 -0.18	0.068
34.00 -14.55 -1.43 0.00 -177.45 0.00 177.45 3,774.38 1,887.19 5,640.38 2,785.57 0.65 -0.19	0.068
35.00 -14.39 -1.42 0.00 -176.03 0.00 176.03 3,759.37 1,879.69 5,595.34 2,763.33 0.69 -0.19	0.068
36.00 -14.23 -1.41 0.00 -174.61 0.00 174.61 3,744.37 1,872.18 5,550.49 2,741.18 0.73 -0.20 37.00 -14.08 -1.40 0.00 -173.20 0.00 173.20 3,729.36 1,864.68 5,505.82 2,719.12 0.77 -0.20	0.068 0.067
38.00 -13.92 -1.40 0.00 -171.80 0.00 171.80 3,714.35 1,857.18 5,461.33 2,697.15 0.82 -0.21	0.067
39.00 -13.77 -1.39 0.00 -170.40 0.00 170.40 3,699.34 1,849.67 5,417.02 2,675.26 0.86 -0.22	0.067
40.00 -13.61 -1.38 0.00 -169.02 0.00 169.02 3,684.33 1,842.17 5,372.89 2,653.47 0.91 -0.22 41.00 -13.46 -1.37 0.00 -167.64 0.00 167.64 3,669.33 1,834.66 5,328.94 2,631.76 0.95 -0.23	0.067 0.067
42.00 -13.31 -1.36 0.00 -166.26 0.00 166.26 3,654.32 1,827.16 5,285.17 2,610.15 1.00 -0.23	0.067
43.00 -13.15 -1.36 0.00 -164.90 0.00 164.90 3,639.31 1,819.66 5,241.59 2,588.62 1.05 -0.24	0.067
44.00 -13.04 -1.35 0.00 -163.54 0.00 163.54 3,624.30 1,812.15 5,198.18 2,567.18 1.10 -0.25 44.75 -13.01 -1.35 0.00 -162.53 0.00 162.53 3,613.05 1,806.52 5,165.74 2,551.17 1.14 -0.25	0.067 0.067
44.75 -13.01 -1.35 0.00 -162.53 0.00 162.53 3,613.05 1,806.52 5,165.74 2,551.17 1.14 -0.25 44.75 -13.01 -1.35 0.00 -162.53 0.00 162.53 3,037.33 1,518.66 4,358.22 2,152.36 1.14 -0.25	0.080
45.00 -12.88 -1.34 0.00 -162.19 0.00 162.19 3,035.24 1,517.62 4,350.67 2,148.63 1.15 -0.25	0.080
46.00 -12.75 -1.34 0.00 -160.85 0.00 160.85 3,026.89 1,513.44 4,320.50 2,133.73 1.21 -0.26 47.00 12.62 1.32 0.00 150.51 0.00 150.51 2,010.50 1,500.05 4,200.07 2,110.05 1,200.07	0.080
47.00 -12.62 -1.33 0.00 -159.51 0.00 159.51 3,018.50 1,509.25 4,290.37 2,118.85 1.26 -0.27 48.00 -12.49 -1.32 0.00 -158.18 0.00 158.18 3,010.08 1,505.04 4,260.30 2,104.00 1.32 -0.27	0.079 0.079
49.00 -12.36 -1.32 0.00 -156.86 0.00 156.86 3,001.62 1,500.81 4,230.28 2,089.17 1.38 -0.28	0.079
50.00 -12.23 -1.31 0.00 -155.54 0.00 155.54 2,993.12 1,496.56 4,200.31 2,074.37 1.43 -0.29 51.00 12.10 1.21 0.00 155.24 0.00 154.23 0.00 154.23 0.00 1.00 0.00 0.00 0.00 0.00 0.00 0.0	0.079
51.00 -12.10 -1.31 0.00 -154.23 0.00 154.23 2,984.59 1,492.30 4,170.39 2,059.60 1.50 -0.29 52.00 -11.97 -1.30 0.00 -152.92 0.00 152.92 2,976.02 1,488.01 4,140.52 2,044.85 1.56 -0.30	0.079 0.079
53.00 -11.85 -1.29 0.00 -151.62 0.00 151.62 2,967.42 1,483.71 4,110.71 2,030.13 1.62 -0.31	0.079

Site	Number:	302496
Site	number.	302490

© 2007 - 2018 by ATC IP LLC. All rights reserved.

Site Name: Clch - Colchester, CT

Engineering Number: OAA735982_C3_01

7/2/2018 6:10:54 PM

54.00	-11.72	-1.29	0.00	-150.33	0.00	150.33	2,958.79 1,479.39 4,080.96 2,015.43 1.69 -0.32 0.079
55.00	-11.59	-1.28	0.00	-149.05	0.00	149.05	2,950.11 1,475.06 4,051.26 2,000.76 1.75 -0.32 0.078
56.00	-11.47	-1.27	0.00	-147.77	0.00	147.77	2,941.41 1,470.70 4,021.62 1,986.12 1.82 -0.33 0.078
57.00	-11.34	-1.27	0.00	-146.49	0.00	146.49	2,932.66 1,466.33 3,992.03 1,971.51 1.89 -0.34 0.078
58.00	-11.22	-1.26	0.00	-145.23	0.00	145.23	2,923.89 1,461.94 3,962.50 1,956.93 1.96 -0.35 0.078
59.00	-11.10	-1.25	0.00	-143.97	0.00	143.97	2,915.07 1,457.54 3,933.03 1,942.37 2.04 -0.35 0.078
60.00	-10.97	-1.25	0.00	-142.71	0.00	142.71	2,906.28 1,453.14 3,903.69 1,927.89 2.11 -0.36 0.078
61.00	-10.85	-1.24	0.00	-141.46	0.00	141.46	2,893.42 1,446.71 3,869.02 1,910.76 2.19 -0.37 0.078
62.00	-10.73	-1.23	0.00	-140.22	0.00	140.22	2,880.56 1,440.28 3,834.50 1,893.71 2.27 -0.38 0.078
63.00	-10.61	-1.23	0.00	-138.99	0.00	138.99	2,867.69 1,433.85 3,800.13 1,876.74 2.35 -0.38 0.078
64.00	-10.49	-1.22	0.00	-137.76	0.00	137.76	2,854.83 1,427.41 3,765.92 1,859.84 2.43 -0.39 0.078
65.00	-10.36	-1.22	0.00	-136.54	0.00	136.54	2,841.96 1,420.98 3,731.86 1,843.02 2.51 -0.40 0.078
66.00	-10.24	-1.21	0.00	-135.32	0.00	135.32	2,829.10 1,414.55 3,697.96 1,826.28 2.59 -0.41 0.078
67.00	-10.12	-1.20	0.00	-134.11	0.00	134.11	2,816.24 1,408.12 3,664.21 1,809.61 2.68 -0.41 0.078
68.00	-10.01	-1.20	0.00	-132.91	0.00	132.91	2,803.37 1,401.69 3,630.61 1,793.02 2.77 -0.42 0.078
69.00	-9.89	-1.19				132.51	
			0.00	-131.71	0.00		
70.00	-9.77	-1.19	0.00	-130.52	0.00	130.52	2,777.64 1,388.82 3,563.89 1,760.07 2.95 -0.44 0.078
71.00	-9.65	-1.18	0.00	-129.33	0.00	129.33	2,764.78 1,382.39 3,530.76 1,743.71 3.04 -0.45 0.078
72.00	-9.53	-1.18	0.00	-128.15	0.00	128.15	2,751.92 1,375.96 3,497.79 1,727.43 3.13 -0.45 0.078
73.00	-9.42	-1.17	0.00	-126.98	0.00	126.98	2,739.05 1,369.53 3,464.97 1,711.22 3.23 -0.46 0.078
74.00	-9.30	-1.16	0.00	-125.81	0.00	125.81	2,726.19 1,363.09 3,432.30 1,695.08 3.33 -0.47 0.078
75.00	-9.19	-1.16	0.00	-124.64	0.00	124.64	2,713.32 1,356.66 3,399.79 1,679.03 3.43 -0.48 0.078
76.00	-9.07	-1.16	0.00	-123.48	0.00	123.48	2,700.46 1,350.23 3,367.44 1,663.05 3.53 -0.49 0.078
77.00	-8.96	-1.15	0.00	-122.33	0.00	122.33	2,687.60 1,343.80 3,335.24 1,647.15 3.63 -0.49 0.078
78.00	-8.84	-1.15	0.00	-121.18	0.00	121.18	2,674.73 1,337.37 3,303.19 1,631.32 3.73 -0.50 0.078
79.00	-8.73	-1.13	0.00	-120.03	0.00	120.03	
80.00	-8.62	-1.14	0.00	-118.89	0.00	118.89	2,649.00 1,324.50 3,239.56 1,599.90 3.95 -0.52 0.078
81.00	-8.50	-1.13	0.00	-117.75	0.00	117.75	2,636.14 1,318.07 3,207.98 1,584.30 4.06 -0.53 0.078
82.00	-8.39	-1.13	0.00	-116.62	0.00	116.62	2,623.28 1,311.64 3,176.55 1,568.78 4.17 -0.53 0.078
83.00	-8.28	-1.13	0.00	-115.48	0.00	115.48	2,610.41 1,305.21 3,145.28 1,553.33 4.28 -0.54 0.078
84.00	-8.17	-1.13	0.00	-114.36	0.00	114.36	2,597.55 1,298.77 3,114.16 1,537.97 4.39 -0.55 0.078
85.00	-8.09	-1.12	0.00	-113.23	0.00	113.23	2,584.68 1,292.34 3,083.20 1,522.68 4.51 -0.56 0.077
85.75	-8.07	-1.12	0.00	-112.39	0.00	112.39	2,575.04 1,287.52 3,060.08 1,511.26 4.60 -0.57 0.078
85.75	-8.07	-1.12	0.00	-112.39	0.00	112.39	1,544.73 772.37 1,851.60 914.44 4.60 -0.57 0.128
86.00	-7.99	-1.12	0.00	-112.11	0.00	112.11	1,543.70 771.85 1,848.04 912.68 4.63 -0.57 0.128
87.00	-7.91	-1.12	0.00	-110.98	0.00	110.98	1,539.55 769.77 1,833.81 905.65 4.75 -0.58 0.128
88.00	-7.84	-1.12	0.00	-109.86	0.00	109.86	1,535.36 767.68 1,819.59 898.63 4.87 -0.59 0.127
89.00							······································
	-7.76	-1.12	0.00	-108.74	0.00	108.74	
90.00	-7.69	-1.12	0.00	-107.61	0.00	107.61	1,526.87 763.44 1,791.17 884.59 5.13 -0.62 0.127
91.00	-7.61	-1.12	0.00	-106.49	0.00	106.49	1,522.58 761.29 1,776.98 877.58 5.26 -0.63 0.126
92.00	-7.54	-1.13	0.00	-105.37	0.00	105.37	1,518.25 759.12 1,762.79 870.58 5.39 -0.65 0.126
93.00	-7.47	-1.13	0.00	-104.24	0.00	104.24	1,513.88 756.94 1,748.62 863.58 5.53 -0.66 0.126
94.00	-7.39	-1.13	0.00	-103.11	0.00	103.11	1,509.48 754.74 1,734.46 856.59 5.67 -0.67 0.125
95.00	-7.32	-1.13	0.00	-101.98	0.00	101.98	1,505.04 752.52 1,720.31 849.60 5.81 -0.68 0.125
96.00	-7.25	-1.13	0.00	-100.85	0.00	100.85	1,500.57 750.29 1,706.18 842.62 5.95 -0.70 0.125
97.00	-7.17	-1.13	0.00	-99.72	0.00	99.72	1,496.06 748.03 1,692.06 835.64 6.10 -0.71 0.124
98.00	-7.10	-1.14	0.00	-98.59	0.00	98.59	1,491.52 745.76 1,677.95 828.68 6.25 -0.72 0.124
99.00	-7.03	-1.14	0.00	-97.45	0.00	97.45	1,486.94 743.47 1,663.86 821.72 6.40 -0.74 0.123
100.00	-6.96	-1.14	0.00	-96.31	0.00	96.31	1,482.33 741.16 1,649.78 814.77 6.56 -0.75 0.123
101.00	-6.89						
		-1.15	0.00	-95.17	0.00	95.17	
102.00	-6.82	-1.15	0.00	-94.02	0.00	94.02	1,473.00 736.50 1,621.68 800.89 6.88 -0.78 0.122
103.00	-6.75	-1.15	0.00	-92.87	0.00	92.87	1,468.28 734.14 1,607.66 793.96 7.05 -0.79 0.122
104.00	-6.68	-1.16	0.00	-91.72	0.00	91.72	1,463.52 731.76 1,593.65 787.04 7.21 -0.80 0.121
105.00	-6.61	-1.16	0.00	-90.56	0.00	90.56	1,458.73 729.37 1,579.66 780.14 7.38 -0.82 0.121
106.00	-6.54	-1.17	0.00	-89.40	0.00	89.40	1,453.91 726.95 1,565.69 773.24 7.56 -0.83 0.120
107.00	-6.47	-1.17	0.00	-88.23	0.00	88.23	1,449.04 724.52 1,551.74 766.35 7.73 -0.85 0.120
108.00	-6.40	-1.17	0.00	-87.06	0.00	87.06	1,444.15 722.07 1,537.82 759.47 7.91 -0.86 0.119
109.00	-6.33	-1.18	0.00	-85.89	0.00	85.89	1,439.21 719.61 1,523.91 752.60 8.09 -0.87 0.119
110.00	-6.26	-1.18	0.00	-84.71	0.00	84.71	1,434.25 717.12 1,510.03 745.75 8.28 -0.89 0.118
111.00							
	-6.19	-1.19	0.00	-83.53	0.00	83.53	
112.00	-6.13	-1.19	0.00	-82.34	0.00	82.34	1,424.21 712.10 1,482.33 732.07 8.65 -0.92 0.117
113.00	-6.06	-1.20	0.00	-81.15	0.00	81.15	1,419.13 709.57 1,468.51 725.24 8.85 -0.93 0.116
114.00	-5.99	-1.20	0.00	-79.96	0.00	79.96	1,414.02 707.01 1,454.73 718.43 9.04 -0.94 0.116
115.00	-5.93	-1.20	0.00	-78.76	0.00	78.76	1,408.88 704.44 1,440.96 711.64 9.24 -0.96 0.115

Site	Number:	302496
QILU	Number.	002400

© 2007 - 2018 by ATC IP LLC. All rights reserved.

Site Name: Clch - Colchester, CT

Engineering Number: OAA735982_C3_01

7/2/2018 6:10:54 PM

Site Name: Customer:	Clch - Colches		Engineer	ing Number	: OAA735982	_C3_01			7/2/20	018 6:10	:54 PM
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	5.86 -1.21 5.73 -1.22 5.66 -1.22 5.60 -1.23 5.53 -1.23 5.47 -1.23 5.47 -1.23 5.47 -1.23 5.41 -1.24 5.34 -1.24 5.34 -1.24 5.34 -1.24 5.28 -1.24 5.28 -1.24 5.28 -1.25 5.12 -1.25 5.12 -1.25 5.12 -1.26 5.00 -1.27 5.53 -1.27 5.57 -1.26 5.74 -1.24 5.57 -1.26 5.74 -1.24 5.57 -1.25 5.74 -1.24 5.57 -1.22 5.74 -1.21 5.55 -1.22 5.51 -1.21 5.54 -1.22 5.54 -1.22	0.00 -77.56 0.00 -76.35 0.00 -76.35 0.00 -75.14 0.00 -73.92 0.00 -73.92 0.00 -73.92 0.00 -71.47 0.00 -70.24 0.00 -69.01 0.00 -69.01 0.00 -65.91 0.00 -65.91 0.00 -65.91 0.00 -65.26 0.00 -65.26 0.00 -65.26 0.00 -65.26 0.00 -65.26 0.00 -50.76 0.00 -55.23 0.00 -55.23 0.00 -55.23 0.00 -51.43 0.00 -51.43 0.00 -51.43 0.00 -46.32 0.00 -46.32 0.00 -47.61 0.00 -46.32 0.00 -43.76 0.00 <td></td> <td>$\begin{array}{c} 77.56\\ 76.35\\ 75.14\\ 73.92\\ 72.70\\ 71.47\\ 70.24\\ 69.01\\ 67.77\\ 66.53\\ 65.91\\ 65.91\\ 65.91\\ 65.29\\ 64.04\\ 62.79\\ 61.54\\ 60.28\\ 59.02\\ 57.76\\ 56.50\\ 55.23\\ 53.96\\ 52.70\\ 51.43\\ 50.15\\ 48.88\\ 47.61\\ 46.34\\ 45.06\\ 43.79\\ 42.52\\ 41.25\\ 39.98\\ 38.71\\ 37.44\\ 36.17\\ 34.91\\ 33.65\\ 32.39\\ 31.14\\ 29.89\\ 28.65\\ 27.41\\ 26.17\\ 24.94\\ 23.71\\ 22.49\\ 28.65\\ 27.41\\ 26.17\\ 24.94\\ 23.71\\ 22.49\\ 21.28\\ 20.08\\ \end{array}$</td> <td>1,398.48 1,393.23 1,387.95 1,382.63 1,377.27 1,371.88 1,366.45 1,360.99 1,355.49 1,352.73 1,127.00 1,124.94 1,120.78 1,112.36 1,108.10 1,099.47 1,095.10 1,099.47 1,095.10 1,099.47 1,095.10 1,096.26 1,081.78 1,077.27 1,072.73 1,068.14 1,058.88 1,054.19 1,049.47 1,049.47 1,049.47 1,049.47 1,049.47 1,049.47 1,049.47 1,049.47 1,049.47 1,049.47 1,049.47 1,049.47 1,049.47 1,049.47 1,045.39 1,025.32 1,025.39 1,015.42 1,010.41 1,005.37 1,000.30 995.19 990.04 983.06 975.56 968.05 960.55 960.55 963.54 938.04</td> <td>701.85 699.24 696.62 693.97 698.64 683.97 685.94 677.74 676.36 562.47 556.287 556.39 556.18 557.90 5545.35 549.73 547.55 543.13 549.73 522.35 519.96 517.54 510.19 507.71 502.69 507.71 502.69 507.59 497.59 59</td> <td>1,413.51 1,399.83 1,386.17 1,372.54 1,372.54 1,372.54 1,372.54 1,345.37 1,331.83 1,318.33 1,318.33 1,318.33 1,304.85 1,298.12 1,084.41 1,079.04 1,068.31 1,046.91 1,036.24 1,025.58 1,014.94 1,025.58 1,014.94 1,025.58 1,014.94 1,004.33 993.73 993.73 993.73 993.73 993.73 993.73 972.60 962.07 951.56 941.07 930.61 920.17 909.76 899.37 889.01 878.68 858.10 847.86 837.64 827.46 817.30 807.18 797.09 787.03 777.01 765.62 753.91 742.29 730.76 719.32 707.97 696.71</td> <td>535.55 532.90 527.60 522.31 517.03 506.50 501.24 496.00 490.77 485.54 480.33 475.13 469.94 464.76 459.59 454.44 449.30 444.77 439.05 433.95 428.86 423.79 418.72 413.68 403.63 398.64 393.65 388.69 383.74 378.11 372.33 366.59 383.74 378.11 372.33 366.59 383.74 378.11 372.33 366.59 360.90 355.25 349.64 344.08</td> <td>9.44 9.65 9.86 10.07 10.28 10.50 10.72 10.94 11.17 11.40 11.51 11.51 11.63 11.87 12.10 12.35 12.59 12.84 13.35 13.61 13.87 14.13 14.40 14.68 14.95 15.23 15.23 15.51 15.80 16.09 16.38 16.67 17.27 17.58 18.82 19.14 19.46 19.79 20.11 20.44 20.78 21.45 21.45 22.13</td> <td>$\begin{array}{c} -0.97\\ -0.97\\ -0.99\\ -1.00\\ -1.03\\ -1.03\\ -1.04\\ -1.06\\ -1.07\\ -1.09\\ -1.11\\ -1.13\\ -1.16\\ -1.23\\ -1.24\\ -1.23\\ -1.24\\ -1.28\\ -1.23\\ -1.32\\ -1.34\\ -1.35\\ -1.38\\ -1.40\\ -1.43\\ -1.43\\ -1.44\\ -1.46\\ -1.57\\ -1.58\\ -1.57\\ -1.58\\ -1.57\\ -1.58\\ -1.57\\ -1.58\\ -1.57\\ -1.58\\ -1.57\\ -1.58\\ -1.57\\ -1.58\\ -1.57\\ -1.58\\ -1.60\\ -1.62\\ -1.63\\ -1.64\\ -1.65\\ -1.64\\ -1.65\\ -1.64\\ -1.65\\ -1.64\\ -1.65\\ -1.65\\ -1.64\\ -1.65\\ -1.65\\ -1.64\\ -1.65\\ -1.65\\ -1.64\\ -1.65\\ -1.65\\ -1.64\\ -1.65\\ -1.65\\ -1.65\\ -1.65\\ -1.65\\ -1.64\\ -1.65\\ -1$</td> <td>0.114 0.114 0.113 0.112 0.111 0.109 0.108 0.107 0.125 0.124 0.125 0.124 0.125 0.124 0.125 0.124 0.122 0.121 0.120 0.118 0.117 0.120 0.118 0.117 0.120 0.118 0.117 0.120 0.121 0.120 0.121 0.120 0.121 0.120 0.125 0.124 0.125 0.124 0.125 0.124 0.125 0.125 0.125 0.124 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.126 0.125 0.126 0.125 0.125 0.125 0.126 0.125 0.091 0.089 0.087 0.085 0.083 0.074 0.065 0.065 0.062</td>		$\begin{array}{c} 77.56\\ 76.35\\ 75.14\\ 73.92\\ 72.70\\ 71.47\\ 70.24\\ 69.01\\ 67.77\\ 66.53\\ 65.91\\ 65.91\\ 65.91\\ 65.29\\ 64.04\\ 62.79\\ 61.54\\ 60.28\\ 59.02\\ 57.76\\ 56.50\\ 55.23\\ 53.96\\ 52.70\\ 51.43\\ 50.15\\ 48.88\\ 47.61\\ 46.34\\ 45.06\\ 43.79\\ 42.52\\ 41.25\\ 39.98\\ 38.71\\ 37.44\\ 36.17\\ 34.91\\ 33.65\\ 32.39\\ 31.14\\ 29.89\\ 28.65\\ 27.41\\ 26.17\\ 24.94\\ 23.71\\ 22.49\\ 28.65\\ 27.41\\ 26.17\\ 24.94\\ 23.71\\ 22.49\\ 21.28\\ 20.08\\ \end{array}$	1,398.48 1,393.23 1,387.95 1,382.63 1,377.27 1,371.88 1,366.45 1,360.99 1,355.49 1,352.73 1,127.00 1,124.94 1,120.78 1,112.36 1,108.10 1,099.47 1,095.10 1,099.47 1,095.10 1,099.47 1,095.10 1,096.26 1,081.78 1,077.27 1,072.73 1,068.14 1,058.88 1,054.19 1,049.47 1,049.47 1,049.47 1,049.47 1,049.47 1,049.47 1,049.47 1,049.47 1,049.47 1,049.47 1,049.47 1,049.47 1,049.47 1,049.47 1,045.39 1,025.32 1,025.39 1,015.42 1,010.41 1,005.37 1,000.30 995.19 990.04 983.06 975.56 968.05 960.55 960.55 963.54 938.04	701.85 699.24 696.62 693.97 698.64 683.97 685.94 677.74 676.36 562.47 556.287 556.39 556.18 557.90 5545.35 549.73 547.55 543.13 549.73 522.35 519.96 517.54 510.19 507.71 502.69 507.71 502.69 507.59 497.59 59	1,413.51 1,399.83 1,386.17 1,372.54 1,372.54 1,372.54 1,372.54 1,345.37 1,331.83 1,318.33 1,318.33 1,318.33 1,304.85 1,298.12 1,084.41 1,079.04 1,068.31 1,046.91 1,036.24 1,025.58 1,014.94 1,025.58 1,014.94 1,025.58 1,014.94 1,004.33 993.73 993.73 993.73 993.73 993.73 993.73 972.60 962.07 951.56 941.07 930.61 920.17 909.76 899.37 889.01 878.68 858.10 847.86 837.64 827.46 817.30 807.18 797.09 787.03 777.01 765.62 753.91 742.29 730.76 719.32 707.97 696.71	535.55 532.90 527.60 522.31 517.03 506.50 501.24 496.00 490.77 485.54 480.33 475.13 469.94 464.76 459.59 454.44 449.30 444.77 439.05 433.95 428.86 423.79 418.72 413.68 403.63 398.64 393.65 388.69 383.74 378.11 372.33 366.59 383.74 378.11 372.33 366.59 383.74 378.11 372.33 366.59 360.90 355.25 349.64 344.08	9.44 9.65 9.86 10.07 10.28 10.50 10.72 10.94 11.17 11.40 11.51 11.51 11.63 11.87 12.10 12.35 12.59 12.84 13.35 13.61 13.87 14.13 14.40 14.68 14.95 15.23 15.23 15.51 15.80 16.09 16.38 16.67 17.27 17.58 18.82 19.14 19.46 19.79 20.11 20.44 20.78 21.45 21.45 22.13	$\begin{array}{c} -0.97\\ -0.97\\ -0.99\\ -1.00\\ -1.03\\ -1.03\\ -1.04\\ -1.06\\ -1.07\\ -1.09\\ -1.11\\ -1.13\\ -1.16\\ -1.23\\ -1.24\\ -1.23\\ -1.24\\ -1.28\\ -1.23\\ -1.32\\ -1.34\\ -1.35\\ -1.38\\ -1.40\\ -1.43\\ -1.43\\ -1.44\\ -1.46\\ -1.57\\ -1.58\\ -1.57\\ -1.58\\ -1.57\\ -1.58\\ -1.57\\ -1.58\\ -1.57\\ -1.58\\ -1.57\\ -1.58\\ -1.57\\ -1.58\\ -1.57\\ -1.58\\ -1.60\\ -1.62\\ -1.63\\ -1.64\\ -1.65\\ -1.64\\ -1.65\\ -1.64\\ -1.65\\ -1.64\\ -1.65\\ -1.65\\ -1.64\\ -1.65\\ -1.65\\ -1.64\\ -1.65\\ -1.65\\ -1.64\\ -1.65\\ -1.65\\ -1.64\\ -1.65\\ -1.65\\ -1.65\\ -1.65\\ -1.65\\ -1.64\\ -1.65\\ -1$	0.114 0.114 0.113 0.112 0.111 0.109 0.108 0.107 0.125 0.124 0.125 0.124 0.125 0.124 0.125 0.124 0.122 0.121 0.120 0.118 0.117 0.120 0.118 0.117 0.120 0.118 0.117 0.120 0.121 0.120 0.121 0.120 0.121 0.120 0.125 0.124 0.125 0.124 0.125 0.124 0.125 0.125 0.125 0.124 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.126 0.125 0.126 0.125 0.125 0.125 0.126 0.125 0.091 0.089 0.087 0.085 0.083 0.074 0.065 0.065 0.062
163.00 -3 164.00 -3 165.00 -3 166.00 -3 167.00 -3 169.00 -3 170.00 -3 171.00 -3 172.00 -2 173.00 -2 174.00 -2 175.00 -2 176.00 -2	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0.00 0.00	20.08 18.88 17.69 16.50 15.33 14.16 13.01 11.86 10.72 9.60 8.48 7.38 6.28 5.20 4.14 3.08	930.53 923.03 915.52 908.02 900.52 893.01 885.51 878.00 870.50 863.00 855.49 847.99 8440.48 832.98 825.48	465.27 461.51 457.76 454.01 450.26 446.51 442.75 439.00 435.25 431.50 427.75 423.99 420.24 416.49 412.74	635.54 674.47 663.48 652.58 641.77 631.06 620.43 609.89 599.45 589.09 578.82 568.65 558.56 548.57 538.66	338.56 333.09 327.67 322.29 316.95 311.65 306.41 301.20 296.04 290.93 285.86 280.83 275.85 270.92 266.02	22.47 22.82 23.17 23.52 23.87 24.23 24.58 24.94 25.30 25.66 26.02 26.38 26.74 27.11 27.47	-1.65 -1.66 -1.67 -1.68 -1.69 -1.69 -1.69 -1.70 -1.71 -1.72 -1.72 -1.73 -1.74 -1.74 -1.74	0.052 0.057 0.054 0.051 0.048 0.045 0.042 0.039 0.036 0.033 0.029 0.026 0.022 0.019 0.015

Site Numb Site Name Customer	: Clch	496 1 - Colche T MOBIL		Code: ANSI/TIA-222-G Engineering Number: OAA735982_C3_01			- J J						
178.00	-2.74	-1.03	0.00	-2.04	0.00	2.04	817.97	408.99	528.85	261.18	27.84	-1.74	0.011
179.00	-2.70	-1.01	0.00	-1.01	0.00	1.01	810.47	405.23	519.12	256.38	28.20	-1.75	0.007
180.00	0.00	0.00	0.00	0.00	0.00	0.00	802.96	401.48	509.49	251.62	28.57	-1.75	0.000
180.58	0.00	0.00	0.00	0.00	0.00	0.00	798.59	399.29	503.91	248.86	28.78	-1.75	0.000

Site Number: 302496 Site Name: Clch - Colchester, CT Customer: AT&T MOBILITY

Code: ANSI/TIA-222-G Engineering Number: OAA735982_C3_01 © 2007 - 2018 by ATC IP LLC. All rights reserved. 7/2/2018 6:10:54 PM

Analysis Summary

	Reactions					Max	Usage	
Load Case	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	21.48	0.00	28.39	0.00	0.00	2385.75	85.75	0.95
0.9D + 1.6W	21.48	0.00	21.29	0.00	0.00	2342.84	85.75	0.92
1.2D + 1.0Di + 1.0Wi	4.47	0.00	43.38	0.00	0.00	547.19	85.75	0.25
(1.2 + 0.2Sds) * DL + E ELFM	0.92	0.00	29.02	0.00	0.00	146.64	85.75	0.08
(1.2 + 0.2Sds) * DL + E EMAM	1.62	0.00	29.02	0.00	0.00	236.58	85.75	0.14
(0.9 - 0.2Sds) * DL + E ELFM	0.92	0.00	20.25	0.00	0.00	142.72	85.75	0.08
(0.9 - 0.2Sds) * DL + E EMAM	1.62	0.00	20.25	0.00	0.00	229.89	85.75	0.13
1.0D + 1.0W	4.74	0.00	23.67	0.00	0.00	522.25	85.75	0.21



AMERICAN TOWER

Base Plate & Anchor Rod Analysis

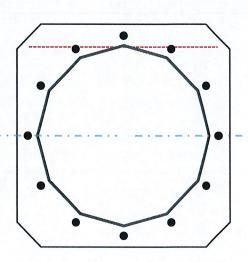
Pole Dimensions						
Number of Sides	12	-				
Diameter	41.7	in				
Thickness	0.4375	in				
Orientation Offset		0				

Base Plate					
Shape	Square	-			
Width	53.7	in			
Thickness	2 1/2	in			
Grade	A36	-			
Yield Strength, Fy	36	ksi			
Tensile Strength, Fu	58	ksi			
Clip	6	in			
Orientation Offset		•			
Anchor Rod Detail	с	η=0.55			
Clear Distance	N/A	in			
Applied Moment, Mu	625.6	k			
Bending Stress, φMn	1974.0	k			

Original A	nchor Rods		
Arrangement	Radial	-	
Quantity	12	-	
Diameter, ø	2 1/4	in	
Bolt Circle	48.2	in	
Grade	A615-7	5	
Yield Strength, Fy	75	ksi	
Tensile Strength, Fu	100	ksi	
Spacing	12.6	in	
Orientation Offset		•	
Applied Force, Pu	200.2	k	
Anchor Rods, φPn	259.8	k	

Base Reactions						
Moment, Mu	2385.8	k-ft				
Axial, Pu Shear, Vu	28.4	k				
Shear, Vu	21.5	k				
Neutral Axis	0	0				

Report Capacities					
Component	Capacity	Result			
Base Plate	32%	Pass			
Anchor Rods	77%	Pass			
Dwyidag		-			



_			
	Plate Type	Flange @ 125.5 ft	Code Rev. G Date 7/2/2018
ē	Pole Diameter	23.561 in	Engineer Connor.Klein
Pla	Pole Thickness	0.21875 in	Site # 302496
-e	Plate Diameter	29.6 in	Moment 405.2 k-ft Carrier AT&T MOBILITY
anç	Plate Thickness	1.25 in	Axial 6.0 k
Base/Flange Plate	Plate Fy	36 ksi	
ase	Weld Length	0.5 in	Required Flange Thickness:
ä	ϕ_s Resistance	52.04 k-in	1.06 in OK
	Applied	37.13 k-in	
	#	0	
Stiffeners			0 0 0
Stil			
_			
	#	18	
	Bolt Circle	27.6 in	
	(R)adial / (S)quare	R	\$ ({}) \$
	Diameter	1 in	© (0)
() S	Hole Diameter	1 in 1.125 in	
Bolts	Туре	A325	0
m	Fy	92 ksi	
	Fu	120 ksi	
	φ _s Resistance	54.52 k	
	Applied	38.80 k	
	#	00.00 K	
	π		
L.			
Reinforcement			Plate Stress Ratio:
١.			0.71 (Pass)
Į			<u> </u>
ein			Bolt Stress Ratio:
Ř			0.71 (Pass)
	#	0	0.71 (1 233)
	т Т		
0			
log M			
⁶			
Extra Bolts			
"			
L		11	

Site Name:	Clch Colchester, CT	Program Last Updated:	5/13/2014
Site Number:	302496	American Tower Corporation	
Engineer:	Connor.Klein		
Engineering Number:	OAA735982		
Date:	07/02/18		
Design Base Loads (Factored) - Anal	ysis per TIA-222-G Standards		
Analyze or Design a Foundation?	Analyze		
Foundation Mapped:	Y		
Moment (M):	2385.8 k-ft	∇	
Shear/Leg (V):	21.5 k		
Axial Load (P):	28.4 k	지 않고 지 않는 것 같은 것 같	
Uplift/Leg (U):	0.0 k	La construction de la construction	
Tower Type (GT / SST / MP):	MP		
Diameter of Caisson (d):		6.0 ft	
Caisson Embedment (L-h):		33.3 ft	Engineer Notes
Caisson Height Above Ground (h):		0.8 ft	
Depth Below Ground Surface to Wat	er Table (w):	12.0 ft	
Unit Weight of Concrete:		150.0 pcf	
Unit Weight of Water:		62.4 pcf	
Tension Skin Friction/Compression S	kin Friction:	1.00	
Pullout Angle:		30.0 degrees	
		 Eliteratives intervention sector 	
Soil Mechanical Properties			

Dep	th (ft)	γsoil	Cohesion	ф	Ultimate Skin	Ultimate Bearing
Тор	Bottom	(pcf)	(psf)	(degree)	Friction (psf)	Pressure (psf)
0.0	3.5	115	0	0	0	0
3.5	10.5	115	0	0	0	0
10.5	15.5	115	0	0	0	0
15.5	34.3	115	0	0	0	12000

Required Embedment:	30.0 ft - OK, Caisson Embedment Satisfactory
Volume of Concrete:	964.2 $ft^3 = 35.7 yd^3$
Weight of Concrete (Buoyancy Effect Considered):	107.0 k
Average Soil Unit Weight:	75.1 pcf
Skin Friction Resistance:	0.0 k
Compressive Bearing Resistance:	339.3 k
Pullout Weight (Minus Concrete Weight):	1420.9 k
Nominal Uplift Capacity per Leg ($\phi_s T_n$):	80.3 k
Nominal Compressive Capacity per Leg ($\phi_s P_n$):	254.5 k
P _u :	67.9 k
$T_u/\phi_s T_n$:	0.00 Result: OK
$P_u/\phi_s P_n$:	0.27 Result: OK
Total Lateral Resistance:	771.8 k
Inflection Point (Below Ground Surface):	22.0 ft
Design Overturning Moment At Inflection Point (M _D):	2875.7 k-ft
Nominal Moment Capacity ($\phi_s M_n$):	3985.3 k-ft
$M_D/\phi_s M_n$:	0.72 Result: OK
φ _s :	0.75