

February 14, 2023

Shawn Reed, Chief Building Official **Building Department** Stamford Government Center 888 Washington Boulevard Stamford, CT 06901

Construction Closeout Letter Building Permit #B-22-1135

ATC Site Name: Stamford (Katoona)

ATC Asset#: 88018 CTL02135 AT&T Site#:

Site Address: 168 Catoona Lane Stamford, CT 06902

Dear Mr. Reed,

In accordance with the requirements of the 2018 Connecticut State Building Code, Dewberry Engineers Inc. (Dewberry) reviewed the completed installation at the above location based on Rev-o Construction Drawings dated 07/18/22. A structural analysis report was completed by Airosmith Engineering, dated 11/24/21 and a mount analysis report was completed by American Tower Corporation dated 06/13/22.

Please see the attached reports and documentation for the completed site.

- February 14, 2023 Contractor Report
- February 8, 2023 As-Built drawings

Based on visual observations, it appears that the project is constructed in general conformance with the applicable plans and specifications. If you have any questions, please do not hesitate to contact Dewberry Engineers Inc.





Statement of Special Inspections

Contractor Report #1

Attn: Mr. Blake Paynter Project Manager

American Tower Corporation

10 Presidential Way Woburn, MA 01801

ATC Site Name:	Stamford (Katoona)
ATC Site#/Project#:	88018 / 13683396
Site Address:	168 Catoona Lane Stamford, CT 06902
Contractor:	Centerline Communications, LLC

Dewberry Engineers Inc. (Dewberry) has reviewed the photos and as-built drawings provided by the general contractor of the recently completed site improvements at the aforementioned location. The site review was performed based on Rev-o Construction Drawings dated 07/18/22. A structural analysis report was completed by Airosmith Engineering, dated 11/24/21 and a mount analysis report was completed by American Tower Corporation dated 06/13/22.

The following are on-site photos from the inspection:

Figure 1: View of installed alpha sector antennas and RRUs on existing sector frame

Figure 2: View of installed beta sector antennas and RRUs on existing sector frame

Figure 3: View of installed gamma sector antennas and RRUs on existing sector frame

All notes and items in this field report are a record of observations provided by the photos. Please notify Dewberry Engineers Inc. in writing of any discrepancies, errors or misinterpretations. Please find attached to this report, the figures and photos of construction and items observed.

Prepared By:

Joseph Mazzeo Engineer



Contractor Photos:



Figure 1: View of installed alpha sector antennas and RRUs on existing sector frame



Figure 2: View of installed beta sector antennas and RRUs on existing sector frame

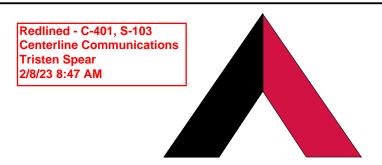
Dewberry



Figure 3: View of installed gamma sector antennas and RRUs on existing sector frame



COMPLIANCE CODE



AMERICAN TOWER®

ATC SITE NAME: STAMFORD (KATOONA)

ATC SITE NUMBER: 88018

AT&T PACE NUMBERS: MRCTB052218, MRCTB051710,

MRCTB051667, MRCTB051681,

MRCTB051674

AT&T SITE ID: CTL02135 AT&T FA CODE:10034997

PROJECT SUMMARY

AT&T SITE NAME: STAMFORD WEST SITE ADDRESS: 168 CATOONA LANE

STAMFORD,CT 06902-4573

PROJECT DESCRIPTION



LOCATION MAP

BIRD WATCH SITE:

PLEASE CONTACT BIRD.WATCH@AMERICANTOWER.COM OR AMERICAN TOWER NOC AT 877-518-6937 FOR ASSISTANCE

SHEET INDEX

AT&T 5G NR C-BAND / BBU / CPRI / 4TXRX AMENDMENT PLAN

								,
ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE	SITE ADDRESS:		THE PROPOSED PROJECT INCLUDES MODIFYING GROUND BASED AND TOWER MOUNTED EQUIPMENT AS INDICATED PER BELOW:	SHEET NO:	DESCRIPTION:	REV:	DATE:	BY:
GOVERNMENT AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO	CODES AS ADOPTED BY THE LOCAL 168 CATOONA LANE 17 AUTHORITIES. NOTHING IN THESE PLANS IS 18 TAMFORD, CT 06902-4573 18 CATOONA LANE 18 CAT		G-001	TITLE SHEET	0	07/18/22	VL	
THESE CODES.	COUNTY: FAIRFIELD			G-002	GENERAL NOTES	0	07/18/22	VL
2018 CONNECTICUT STATE BUILDING CODE-AMENDMENTS TO IBC 2015	GEOGRAPHIC COORDINATES: INSTALL (10) ANTENNA(S), (2) RRU(S), (2) DC SQUID(S) AND MOUNT MODIFICATION(S)				DETAILED SITE PLAN	0	07/18/22	VL
INTERNATIONAL BUILDING CODE 2015, INTERNATIONAL CODE COUNCIL	LATITUDE: 41.052825 LONGITUDE: -73.56304722		EXISTING (3) ANTENNAS, (2) RRU(S), (2) SQUID(S), (4) DC AND (1) FIBER TRUNKS TO REMAIN	C-201	TOWER ELEVATION	0	07/18/22	VL
3. TIA-222-G-4, STRUCTURAL STANDARD FOR ANTENNA SUPPORTING STRUCTURES AND ANTENNAS 4. ASCE 7-10 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, AMERICAN SOCIETY OF CIVIL ENGINEERS 5. STEEL CONSTRUCTION MANUAL 14TH EDITION, AMERICAN INSTITUTE OF STEEL CONSTRUCTION	GROUND ELEVATION: 50' AMS	SL	GROUND WORK:	C-401	RF SCHEDULE AND ANTENNA INSTALLATION	0	07/18/22	VL
			INSTALL (1) 6648, (1) IDLE XCEDE, (1) 6675 FRONTHAUL GATEWAY AND (1) 6630	C-501	CONSTRUCTION DETAILS	0	07/18/22	VL
			AND (1) 0030		GROUNDING DETAILS	0	07/18/22	VL
				R-601	SUPPLEMENTAL			
4. ASCE 7-10 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, AMERICAN SOCIETY OF CIVIL ENGINEERS 5. STEEL CONSTRUCTION MANUAL 14TH EDITION, AMERICAN INSTITUTE OF STEEL CONSTRUCTION 6. CITY/COUNTY ORDINANCES POWER COMPANY: EVERSOURCE ENERGY/56002 PHONE: 888.783.6617 TELEPHONE COMPANY: PHONE:				R-602	SUPPLEMENTAL			
	PROJECT TEAM		PROJECT NOTES	R-603	SUPPLEMENTAL			
	TOWER OWNER: API	APPLICANT: AT&T MOBILITY	THE FACILITY IS UNMANNED. A TECHNICIAN WILL VISIT THE SITE APPROXIMATELY ONCE A		MOUNT MODIFICATION SHEETS (9 PAGES)			
	AMERICAN TOWER AT&T		MONTH FOR ROUTINE INSPECTION AND MAINTENANCE. 3. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT LAND					
	WOBURN, MA 01801 SUIT	HITUATE ROAD TES 13&14	DISTURBANCE OR EFFECT OF STORM WATER DRAINAGE. 4. NO SANITARY SEWER, POTABLE WATER OR TRASH DISPOSAL IS REQUIRED. 5. HANDICAP ACCESS IS NOT REQUIRED.					
	ENGINEER:	GHAM, MA 01701						-
	DEWBERRY ENGINEERS, INC. 99 SUMMER STREET		6. THE PROJECT DEPICTED IN THESE PLANS QUALIFIES AS AN ELIGIBLE FACILITIES REQUEST ENTITLED TO EXPEDITED REVIEW UNDER 47 U.S.C. § 1455(A) AS A MODIFICATION OF AN					+
	SUITE 700 BOSTON, MA 02110		EXISTING WIRELESS TOWER THAT INVOLVES THE COLLOCATION, REMOVAL, AND/OR REPLACEMENT OF					+
	PROPERTY OWNER:		TRANSMISSION EQUIPMENT THAT IS NOT A SUBSTANTIAL					
			CHANGE UNDER CFR § 1.61000 (B)(7).					_
	168 CATOONA LANE STAMFORD,CT 06902-4573		PROJECT LOCATION DIRECTIONS					
	·		COMING FROM NORTH I-95 TAKE EXIT 6. TURN RIGHT ONTO WEST					
			AVE. TURN LEFT AT FIRST LIGHT ONTO W. MAIN ST. TURN RIGHT AT FIRST LIGHT AND FOLLOW ROAD TO END.					
			ATTINOT LIGHT AND FOLLOW ROAD TO END.					



Dewberry*

Dewberry Engineers Inc.
99 SUMMER STREET
SUITE 700
BOSTON, MA 02110
PHONE: 617.695.3400
FAX: 617.695.3310

REV.	DESCRIPTION	BY	DATE
<u> </u>	PRELIM	FG_	12/10/21
<u>B</u>	PRELIM	BR_	03/15/22
<u> </u>	FINAL		07/18/22
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ATC SITE NUMBER: 88018

ATC SITE NAME: STAMFORD (KATOONA)

AT&T SITE NAME:

STAMFORD WEST

SITE ADDRESS: 168 CATOONA LANE STAMFORD.CT 06902-4573

SEAL:

CONTACTOR OF THE PROPERTY OF THE PROPER



DATE DRAWN:	12/10/21
ATC JOB NO:	13683396_D1
CUSTOMER ID:	CTL02135
CUSTOMER #:	10034997

TITLE SHEET

SHEET NUMBER

G-001

0

REVISION:

GENERAL CONSTRUCTION NOTES:

- OWNER FURNISHED MATERIALS, AT&T "THE COMPANY" WILL PROVIDE AND THE CONTRACTOR WILL INSTALL
 - A. BTS EQUIPMENT FRAME (PLATFORM) AND ICEBRIDGE SHELTER (GROUND
 - BUILD/CO-LOCATE ONLY) AC/TELCO INTERFACE BOX (PPC)
 - C. ICE BRIDGE (CABLE TRAY WITH COVER) (GROUND BUILD/CO-LOCATE ONLY, GC TO FURNISH AND INSTALL FOR ROOFTOP INSTALLATION)

 - D. TOWERS, MONOPOLES
 - TOWER LIGHTING
 - GENERATORS & LIQUID PROPANE TANK
 - ANTENNA STANDARD BRACKETS, FRAMES AND PIPES FOR MOUNTING
 - ANTENNAS (INSTALLED BY OTHERS)
 - TRANSMISSION LINE
 - TRANSMISSION LINE JUMPERS
 - TRANSMISSION LINE CONNECTORS WITH WEATHERPROOFING KITS
 - TRANSMISSION LINE GROUND KITS
 - HANGERS
 - HOISTING GRIPS
 - O. BTS EQUIPMENT
- THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL OTHER MATERIALS FOR THE COMPLETE INSTALLATION OF THE SITE INCLUDING, BUT NOT LIMITED TO, SUCH
 MATERIALS AS FENCING, STRUCTURAL STEEL SUPPORTING SUB-FRAME FOR PLATFORM, ROOFING LABOR AND MATERIALS GROUNDING RINGS GROUNDING WIRES COPPER-CLAD OR XIT CHEMICAL GROUND ROD(S), BUSS BARS, TRANSFORMERS AND DISCONNECT SWITCHES WHERE APPLICABLE, TEMPORARY ELECTRICAL POWER, CONDUIT, LANDSCAPING COMPOUND STONE, CRANES, CORE DRILLING, SLEEPERS AND RUBBER MATTING, REBAR, CONCRETE CAISSONS, PADS AND/OR AUGER MOUNTS, MISCELLANEOUS FASTENERS, CABLE TRAYS, NON-STANDARD ANTENNA FRAMES AND ALL OTHER MATERIAL AND LABOR REQUIRED TO COMPLETE THE JOB ACCORDING TO THE DRAWINGS AND SPECIFICATIONS. IT IS THE POSITION OF AT&T TO APPLY FOR PERMITTING AND CONTRACTOR RESPONSIBLE FOR PICKUP AND PAYMENT OF REQUIRED
- ALL WORK SHALL CONFORM TO ALL CURRENT APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING ANSI/EIA/TIA-222, AND COMPLY WITH ATC CONSTRUCTION
- CONTRACTOR SHALL CONTACT LOCAL 811 FOR IDENTIFICATION OF UNDERGROUND
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED
- ALL DIMENSIONS TO, OF, AND ON EXISTING BUILDINGS, DRAINAGE STRUCTURES, AND SITE IMPROVEMENTS SHALL BE VERIFIED IN FIELD BY CONTRACTOR WITH ALL DISCREPANCIES REPORTED TO THE ENGINEER.
- DO NOT CHANGE SIZE OR SPACING OF STRUCTURAL ELEMENTS
- DETAILS SHOWN ARE TYPICAL: SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS
- THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR
- CONTRACTOR SHALL BRACE STRUCTURES UNTIL ALL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: LATERAL BRACING
- CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES, GROUNDS DRAINS, DRAIN PIPES, VENTS, ETC, BEFORE COMMENCING WORK
- INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE AT&T REP PRIOR TO REMEDIAL OR CORRECTIVE ACTION, ANY SUCH REMEDIAL ACTION SHALL REQUIRE WRITTEN APPROVAL BY THE AT&T REP PRIOR TO PROCEEDING.
- EACH CONTRACTOR SHALL COOPERATE WITH THE AT&T REP, AND COORDINATE HIS WORK WITH THE WORK OF OTHERS.
- CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED BY CONSTRUCTION OF THIS PROJECT TO MATCH EXISTING PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE AT&T CONSTRUCTION MANAGER.
- ALL CABLE/CONDUIT ENTRY/EXIT PORTS SHALL BE WEATHERPROOFED DURING 15. INSTALLATION LISING A SILICONE SEALANT
- WHERE EXISTING CONDITIONS DO NOT MATCH THOSE SHOWN IN THIS PLAN SET. CONTRACTOR SHALL NOTIFY THE AT&T REP AND ENGINEER OF RECORD IMMEDIATELY
- CONTRACTOR SHALL ENSURE ALL SUBCONTRACTORS ARE PROVIDED WITH A COMPLETE 3. AND CURRENT SET OF DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.
- CONTRACTOR SHALL REMOVE ALL RUBBISH AND DEBRIS FROM THE SITE AT THE END OF
- CONTRACTOR SHALL COORDINATE WORK SCHEDULE WITH AMERICAN TOWER CORPORATION (ATC) AND TAKE PRECAUTIONS TO MINIMIZE IMPACT AND DISRUPTION OF OTHER OCCUPANTS OF THE FACILITY
- CONTRACTOR SHALL FURNISH AT&T AND AMERICAN TOWER CORPORATION (ATC) WITH A PDF MARKED UP AS-BUILT SET OF DRAWINGS UPON COMPLETION OF WORK.
- PRIOR TO SUBMISSION OF BID. CONTRACTOR SHALL COORDINATE WITH AT&T REP TO DETERMINE WHAT, IF ANY, ITEMS WILL BE PROVIDED. ALL ITEMS NOT PROVIDED SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR. CONTRACTOR WILL INSTALL ALL
- 22. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH AT&T REP TO

- DETERMINE IF ANY PERMITS WILL BE OBTAINED BY CONTRACTOR. ALL REQUIRED PERMITS NOT OBTAINED BY AT&T MUST BE OBTAINED, AND PAID FOR, BY THI
- CONTRACTOR SHALL INSTALL ALL SITE SIGNAGE IN ACCORDANCE WITH AT&T SPECIFICATIONS AND REQUIREMENTS
- CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS TO AT&T FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
- ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND LOCATED ACCORDING TO AT&T SPECIFICATIONS, AND AS SHOWN
- THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL THE CONSTRUCTION. MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT
- CONTRACTOR SHALL NOTIFY AT&T REP A MINIMUM OF 48 HOURS IN ADVANCE OF POURING CONCRETE OR BACKFILLING ANY UNDERGROUND UTILITIES. FOUNDATIONS OR SEALING ANY WALL, FLOOR OR ROOF PENETRATIONS FOR ENGINEERING REVIEW AND
- CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SAFETY INCLUDING COMPLIANCE WITH ALL APPLICABLE OSHA STANDARDS AND RECOMMENDATIONS AND SHALL PROVIDE ALL NECESSARY SAFETY DEVICES INCLUDING PPE AND PPM AND CONSTRUCTION DEVICES SUCH AS WELDING AND FIRE PREVENTION, TEMPORARY SHORING, SCAFFOLDING, TRENCH BOXES/SLOPING, BARRIERS, ETC.
- THE CONTRACTOR SHALL PROTECT AT HIS OWN EXPENSE, ALL EXISTING FACILITIES AND SUCH OF HIS NEW WORK LIABLE TO INJURY DURING THE CONSTRUCTION PERIOD. ANY DAMAGE CAUSED BY NEGLECT ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, OR BY THE ELEMENTS DUE TO NEGLECT ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, EITHER TO THE EXISTING WORK, OR TO HIS WORK OR THE WORK OF ANY OTHER CONTRACTOR, SHALL BE REPAIRED AT HIS EXPENSE TO THE OWNER'S SATISFACTION.
- ALL WORK SHALL BE INSTALLED IN A FIRST CLASS, NEAT AND WORKMANLIKE MANNER BY MECHANICS SKILLED IN THE TRADE INVOLVED. THE QUALITY OF WORKMANSHIP SHALL BE SUBJECT TO THE APPROVAL OF THE AT&T REP. ANY WORK FOUND BY THE AT&T REP TO BE OF INFERIOR QUALITY AND/OR WORKMANSHIP SHALL BE REPLACED AND/OR REWORKED AT CONTRACTOR EXPENSE UNTIL APPROVAL IS OBTAINED.
- IN ORDER TO ESTABLISH STANDARDS OF QUALITY AND PERFORMANCE ALL TYPES OF MATERIALS LISTED HEREINAFTER BY MANUFACTURER'S NAMES AND/OR
 MANUFACTURER'S CATALOG NUMBER SHALL BE PROVIDED BY THESE MANUFACTURERS
- 32 AT&T FURNISHED FOLIPMENT SHALL BE PICKED-LIP AT THE AT&T WAREHOUSE NO LATER THAN 48HR AFTER BEING NOTIFIED INSURED, STORED, UNCRATE, PROTECTED AND INSTALLED BY THE CONTRACTOR WITH ALL APPURTENANCES REQUIRED TO PLACE THE EQUIPMENT IN OPERATION, READY FOR USE. THE CONTRACTOR SHALL BE PONSIBLE FOR THE EQUIPMENT AFTER PICKING IT UP
- 33. AT&T OR HIS ARCHITECT/ENGINEER RESERVES THE RIGHT TO REJECT ANY EQUIPMENT OR MATERIALS WHICH, IN HIS OWN OPINION ARE NOT IN COMPLIANCE WITH THE CONTRACT DOCUMENTS, EITHER BEFORE OR AFTER INSTALLATION AND THE EQUIPMENT SHALL BE REPLACED WITH EQUIPMENT CONFORMING TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS BY THE CONTRACTOR AT NO COST TO AT&T OR THEIR

STRUCTURAL STEEL NOTES:

- STRUCTURAL STEEL SHALL CONFORM TO THE LATEST EDITION OF THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL
- STRUCTURAL STEEL ROLLED SHAPES, PLATES AND BARS SHALL CONFORM TO THE FOLLOWING ASTM DESIGNATIONS:
 - A. ASTM A-572, GRADE 50 ALL W SHAPES, UNLESS NOTED OR A992 OTHERWISE
 - B. ASTM A-36 ALL OTHER ROLLED SHAPES, PLATES AND BARS UNLESS NOTED
 - C. ASTM A-500, GRADE B HSS SECTION (SQUARE, RECTANGULAR, AND ROUND)
 - D. ASTM A-325, TYPE SC OR N ALL BOLTS FOR CONNECTING STRUCTURAL
 - E. ASTM F-1554 07 ALL ANCHOR BOLTS, UNLESS NOTED OTHERWISE
- ALL EXPOSED STRUCTURAL STEEL MEMBERS SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION PER ASTM A123. EXPOSED STEEL HARDWARE AND ANCHOR BOLTS SHALL BE GALVANIZED PER ASTM A153 OR B695.
- ALL FIELD CLIT SURFACES, FIELD DRILLED HOLES AND GROUND SURFACES WHERE EXISTING PAINT OR GALVANIZATION REMOVAL WAS REQUIRED SHALL BE REPAIRED WITH

 (2) BRUSHED COATS OF ZRC GALVAILITE COLD GALVANIZING COMPOUND PER ASTM A780
- DO NOT DRILL HOLES THROUGH STRUCTURAL STEEL MEMBERS EXCEPT AS SHOWN AND DETAILED ON STRUCTURAL DRAWINGS.

B. ALL WELDS SHALL BE INSPECTED VISUALLY. 25% OF WELDS SHALL BE

- CONNECTIONS:
 - A. ALL WELDING TO BE PERFORMED BY AWS CERTIFIED WELDERS AND CONDUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AWS WELDING

- INSPECTED WITH DYE PENETRANT OR MAGNETIC PARTICLE TO MEET THE ACCEPTANCE CRITERIA OF AWS D1.1. REPAIR ALL WELDS AS NECESSARY
- C. INSPECTION SHALL BE PERFORMED BY AN AWS CERTIFIED WELD INSPECTOR.
- IT IS THE CONTRACTORS RESPONSIBILITY TO PROVIDE BURNING/WELDING PERMITS AS REQUIRED BY LOCAL GOVERNING AUTHORITY AND IF REQUIRED SHALL HAVE FIRE DEPARTMENT DETAIL FOR ANY WELDING ACTIVITY
- E. ALL ELECTRODES TO BE LOW HYDROGEN, MATCHING FILLER METAL, PER AWS
- F. MINIMUM WELD SIZE TO BE 0.1875 INCH FILLET WELDS. UNLESS NOTED
- G. PRIOR TO FIELD WELDING GALVANIZING MATERIAL, CONTRACTOR SHALL GRIND OFF GALVANIZING ½" BEYOND ALL FIELD WELD SURFACES. AFTER WELD AND WELD INSPECTION IS COMPLETE. REPAIR ALL GROUND AND WELDED SURFACES WITH ZRC GALVILITE COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURERS RECOMMENDATIONS.
- H. THE CONTRACTOR SHALL PROVIDE ADEQUATE SHORING AND/OR BRACING WHERE REQUIRED DURING CONSTRUCTION UNTIL ALL CONNECTIONS ARE
- ANY FIELD CHANGES OR SUBSTITUTIONS SHALL HAVE PRIOR APPROVAL FROM THE ENGINEER, AND T- MOBILE PROJECT MANAGER IN WRITING

SPECIAL CONSTRUCTION ANTENNA INSTALLATION NOTES:

- WORK INCLUDED
 - A NITENNA AND COAXIAL CARLES ARE FURNISHED BY AT&T LINDER A SEPARATE CONTRACT. THE CONTRACTOR SHALL ASSIST ANTENNA INSTALLATION CONTRACTOR IN TERMS OF COORDINATION AND SITE ACCESS. ERECTION SUBCONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF
 - INSTALL ANTENNAS AS INDICATED ON DRAWINGS AND AT&T SPECIFICATIONS.
 - C. INSTALL GALVANIZED STEEL ANTENNA MOUNTS AS INDICATED ON DRAWINGS.
 - D. INSTALL FURNISHED GALVANIZED STEEL OR ALUMINUM WAVEGUIDE AND PROVIDE PRINTOUT OF THAT TEST.
 - E. CONTRACTOR SHALL PROVIDE FOUR (4) SETS OF SWEEP TESTS USING ANRITZU-PACKARD 8713B RF SCALAR NETWORK ANALYZER. SUBMIT FREQUENCY DOMAIN REFLECTOMETER(EDR) TESTS RESULTS TO THE PROJECT MANAGER SWEEP TESTS SHALL BE AS PER ATTACHED RFS "MINIMUM FIELD TESTING RECOMMENDED FOR ANTENNA AND HELIAX COAXIAL CABLE SYSTEMS" DATED 10/5/93 TESTING SHALL BE PERFORMED BY AN INDEPENDENT TESTING SERVICE AND BE BOUND AND SUBMITTED WITHIN ONE WEEK OF WORK COMPLETION.
 - INSTALL COAXIAL CABLES AND TERMINATING BETWEEN ANTENNAS AND EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. WEATHERPROOF ALL CONNECTIONS BETWEEN THE ANTENNA AND EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. TERMINATE ALL COAXIAL CABLE THREE (3) FEET IN EXCESS OF ENTRY PORT LOCATION UNLESS OTHERWISE STATED.
 - G. ANTENNA AND COAXIAL CABLE GROUNDING:
- ALL EXTERIOR #6 GREEN GROUND WIRE "DAISY CHAIN" CONNECTIONS ARE TO BE WEATHER SEALED WITH RFS CONNECTORS/SPLICE WEATHERPROOFING KIT #221213 OR
- 3. ALL COAXIAL CABLE GROUNDING KITS ARE TO BE INSTALLED ON STRAIGHT RUNS OF

AS BUILT Centerline Communications Tristen Spear 2/8/23 8:47 AM

> ALL DISCREPANCIES FROM WHAT IS SHOWN ON THESE CONSTRUCTION DRAWINGS SHALL BE COMMUNICATED TO ATC ENGINEERING IMMEDIATELY FOR CORRECTION OR RE-DESIGN. FAILURE TO COMMUNICATE DIRECTLY WITH ATC ENGINEERING OR ANY CHANGES FROM THE DESIGN CONDUCTED WITHOUT PRIOR APPROVAL FROM ATC ENGINEERING SHALL BE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR.





99 SUMMER STREET SUITE 700 BOSTON, MA 02110 PHONE: 617.695.3400 FAX: 617.695.3310

DESCRIPTION	BY	DATE
PRELIM	FG_	12/10/21
PRELIM	BR	03/15/22
FINAL		07/18/22
	PRELIM PRELIM	PRELIM FG PRELIM BR

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ATC SITE NAME: STAMFORD (KATOONA)

AT&T SITE NAME:

STAMFORD WEST

SITE ADDRESS 168 CATOONA LANE STAMFORD.CT 06902-4573





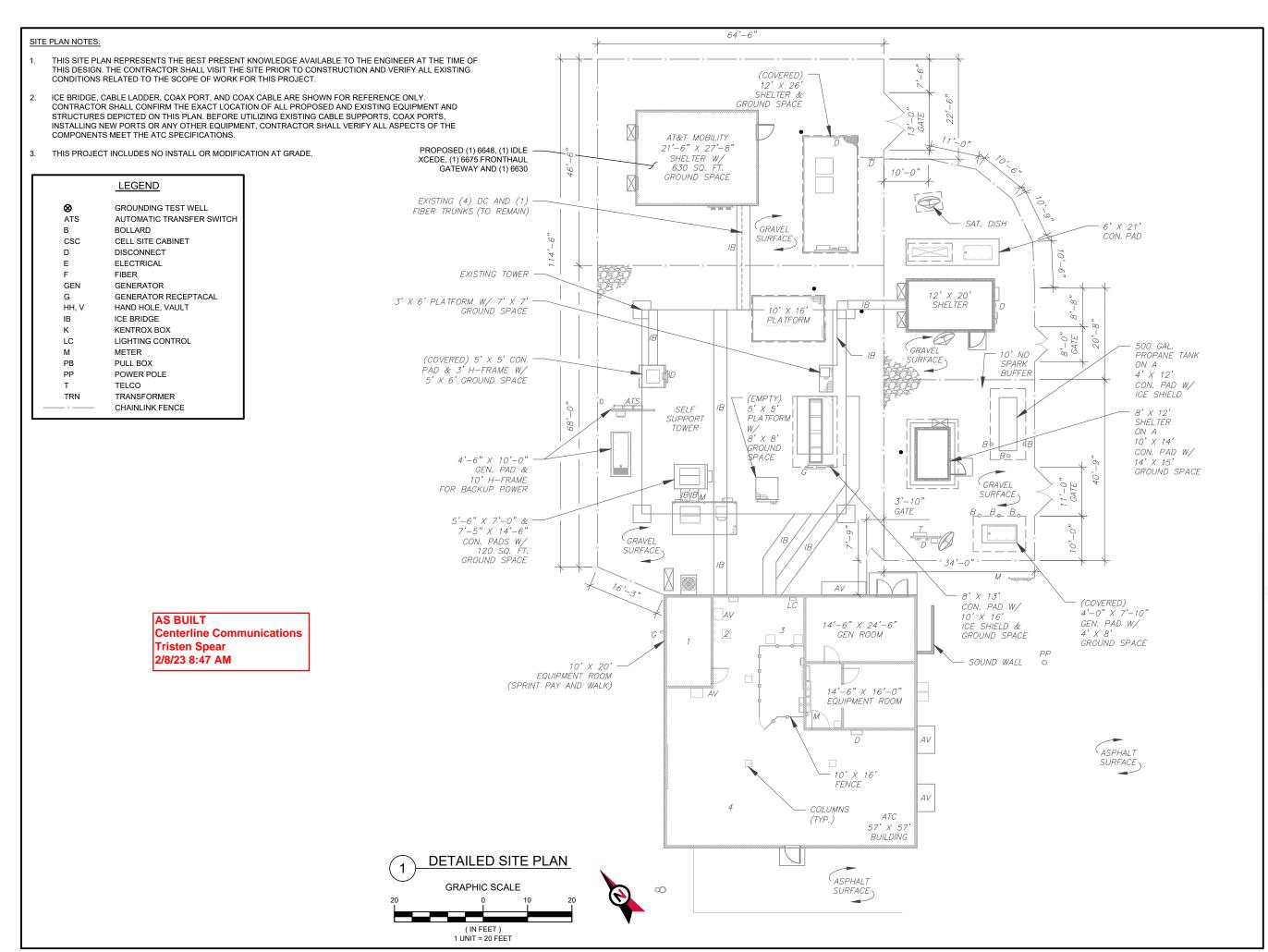
DATE DRAWN: | 12/10/21 ATC JOB NO: 13683396 D1 CUSTOMER ID: CTL02135 CUSTOMER #: 10034997

GENERAL NOTES

SHEET NUMBER:

G-002

REVISION







Dewberry Engineers Inc.
99 SUMMER STREET
SUITE 700
BOSTON, MA 02110
PHONE: 617.695.3400
FAX: 617.695.3310

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SITE ADDRESS: 168 CATOONA LANE STAMFORD,CT 06902-4573





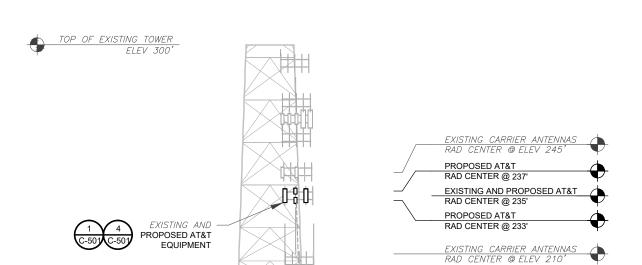
DATE DRAWN:	12/10/21
ATC JOB NO:	13683396_D1
CUSTOMER ID:	CTL02135
CUSTOMER #:	10034997

DETAILED SITE PLAN

SHEET NUMBER:

REVISION:

PER MOUNT ANALYSIS COMPLETED BY AMERICAN TOWER CORPORATION, DATED 06/13/22, THE EXISTING MOUNT MUST BE MODIFIED TO ADEQUATELY SUPPORT THE PROPOSED LOADING. THE MOUNT MODIFICATION PROPOSED IN THE MOUNT ANALYSIS, INCLUDED AT THE END OF THIS PLAN SET, MUST BE INSTALLED PRIOR TO THE INSTALLATION OF THE PROPOSED ANTENNAS AND OTHER EQUIPMENT.



EXISTING (4) DC AND (1) FIBER TRUNKS (TO REMAIN)

EXISTING TOP
OF BASE PLATE

AS BUILT Centerline Communications Tristen Spear 2/8/23 8:47 AM

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM WITH THE PROJECT MANAGER THAT THEY HAVE THE MOST RECENT VERSION OF THE STRUCTURAL ANALYSIS BEFORE COMMENCING WORK. EXISTING AND PROPOSED TOWER APPURTENANCES, MOUNTS, AND ANTENNAS ARE SHOWN BASED ON THE STRUCTURAL ANALYSIS.
- WHERE APPLICABLE, ALL NEW ANTENNAS, EQUIPMENT, MOUNTS, CABLING, ETC. SHALL BE PAINTED/SOCKED TO MATCH EXISTING EQUIPMENT IN ACCORDANCE WITH FAA, JURISDICTION, AND/OR OTHER LOCAL REQUIREMENTS.
- 3. ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. WHERE POSSIBLE UTILIZE EXISTING CABLE SUPPORT STRUCTURES AS PROVIDED FOR CARRIER TO ADEQUATELY SECURE CABLES, USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER. OTHERWISE, ATTACH CABLES TO HORIZONTAL OR DIAGONAL TOWER MEMBERS USING PROPOSED STAINLESS STEEL ADAPTERS (DO NOT ATTACH TO TOWER LEG).
- TOWER ELEVATIONS ARE MEASURED FROM TOP OF BASE PLATE TO MATCH STRUCTURAL ANALYSIS. ELEVATIONS DO NOT REFLECT TRUE ABOVE GROUND LEVEL (A.G.L.)
- TOWER ELEVATION DEPICTION MAY NOT REFLECT ALL EQUIPMENT INCLUDED IN STRUCTURAL ANALYSIS. REFER TO STRUCTURAL ANALYSIS FOR FULL TOWER LOADING.





Dewberry Engineers Inc. 99 SUMMER STREET SUITE 700 BOSTON, MA 02110 PHONE: 617.695.3400 FAX: 617.695.3310

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$\overline{\wedge}$	FINAL	VL	07/18/22
$\overline{\wedge}$			
$\overline{\wedge}$			

ATC SITE NUMBER: 88018

ATC SITE NAME: STAMFORD (KATOONA)

AT&T SITE NAME:

STAMFORD WEST

SITE ADDRESS: 168 CATOONA LANE STAMFORD,CT 06902-4573





ŀ		
	DATE DRAWN:	12/10/21
	ATC JOB NO:	13683396_D1
	CUSTOMER ID:	CTL02135
	CUSTOMER #:	10034997

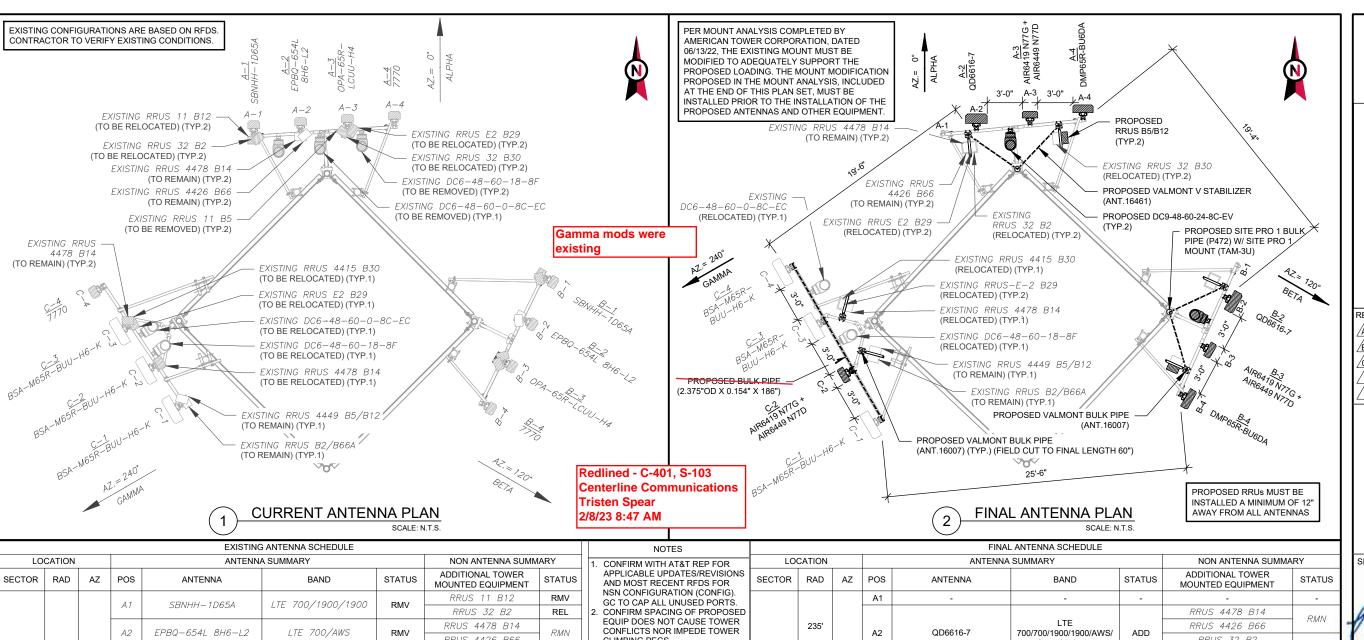
TOWER ELEVATION

SHEET NUMBER: C-201

REVISION:



EXISTING TOWER -



EQUIPMENT SCHEDULES

				EXISTING	S ANTENNA SCHEDULE				
LOCATION		ANTENN	A SUMMARY		NON ANTENNA SUMM	ARY			
SECTOR RAD AZ			POS	ANTENNA	BAND	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS	
ALPHA 23			A1	SBNHH-1D65A	LTE 700/1900/1900	RMV	RRUS 11 B12	RMV	
			AI	SBNHH-ID63A		RIVIV	RRUS 32 B2	REL	
ALPHA			A2	EPBQ-654L 8H6-L2	LTE 700/AWS	RMV	RRUS 4478 B14	RMN	
	237'	0°	AZ	EFBQ-034L ON0-LZ	LIE 700/AWS	KIVIV	RRUS 4426 B66	T TANIN	
	237						RRUS 11 B5	RMV	
			A3	OPA-65R-LCUU-H4	LTE 700/850/WCS	RMV	RRUS E2 B29		
			RRL		RRUS 32 B30	REL			
			A4	7770	UMTS 850	RMV	_	_	
			B1	SBNHH-1D65A	LTE 700/1900/1900	RMV	RRUS 11 B12	RMV	
			D /	SBNAH-TDOSA	LIE 700/1900/1900	KIVIV	RRUS 32 B2	REL	
			B2	EPB0-654L 8H6-L2	LTE 700/AWS	RMV	RRUS 4478 B14	RMN	
BETA	237'	120°	DZ.	LFDQ-034L 0110-LZ	LIL 700/AWS		RRUS 4426 B66	INIVITY	
DLIA	237	120					RRUS 11 B5	RMV	
			B3	RMV	RRUS E2 B29	REL			
							RRUS 32 B30	KEL	
			B4	7770	UMTS 850	RMV	_	_	
			C1	BSA-M65R-BUU-H6-K	LTE	RMN	RRUS 4449 B5/B12	DIAN	
			C1	BSA-MOSK-BUU-HO-K	700/850/1900/19000	RIVIN	RRUS 8843 B2/B66A	RMN	
GAMMA	237'	240°	C2	BSA-M65R-BUU-H6-K	LTE 700/AWS	REL	RRUS 4478 B14	REL	
GAMMA	237	240			1.TE 700 (1100		RRUS E2 B29		
		C3 BSA-M65R-BUU-H6-K LTE 700/WCS REI		REL	RRUS 4415 B30	REL			
			C4	7770	UMTS 850	RMV	_	-	

EXISTING FIBER DISTRIBUTIO	N/SQUID				
MODEL NUMBER	STATUS	COAX	DC	FIBER	STATUS
(1) DC6-48-60-18-8F	RMN	_	(4) DC	(1) FIBER	RMN
(1) DC6-48-60-0-8C-EC	RMN	_	_	_	-
(2) DC6-48-60-18-8F	RMV	_	_	_	_
(1) DC6-48-60-0-8C-EC	RMV	_	_	_	_

_	T	SCALE: N.T.S.									ı													
	NOTES	FINAL ANTENNA SCHEDULE								1														
	1. CONFIRM WITH AT&T REP FOR	LO	CATION			ANTENNA	SUMMARY		NON ANTENNA SUMMA	4RY	1													
;	APPLICABLE UPDATES/REVISIONS AND MOST RECENT RFDS FOR	SECTOR	RAD	AZ	POS	ANTENNA	BAND	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS	1													
	NSN CONFIGURATION (CONFIG). GC TO CAP ALL UNUSED PORTS.				A1	-	-	-	-	-	1													
	2. CONFIRM SPACING OF PROPOSED								RRUS 4478 B14	5141	1													
	EQUIP DOES NOT CAUSE TOWER CONFLICTS NOR IMPEDE TOWER		235'			000000	LTE		RRUS 4426 B66	RMN	١													
	CLIMBING PEGS.				A2	QD6616-7	700/700/1900/1900/AWS/ 5G AWS/5G 1900	ADD	RRUS 32 B2		1													
	3. THE ANTENNA ORIENTATION PLAN	ALPHA		0°			36 AW6/36 1300		RRUS E2 B29	REL	ı													
	IS A SCHEMATIC. ATC DID NOT CONFIRM EXISTING SITE		237'	1		AIR6419 N77G			INTEGRATED		1													
	CONDITIONS INCLUDING, BUT NOT		233'	1	A3	AIR6449 N77D	5G CBAND	ADD	INTEGRATED	ADD	ı													
	LIMITED TO, ANTENNA AZIMUTHS, MOUNT CONFIGURATIONS AND				1					RRUS 4449 B5/B12	ADD	1												
	TOWER ORIENTATION. SCALES				235'		A4	DMP65R-BU6DA	LTE 700/5G 850/LTE WCS	ADD	RRUS 32 B30	REL	1											
-	SHOWN ARE FOR REFERENCE ONLY AND EXISTING DIMENSIONS				B1	-	-	_	-	-	1													
	ARE APPROXIMATE. THE								RRUS 4478 B14		1													
	CONTRACTOR SHALL VERIFY ALL		235'				LTE 700/700/AWS/1900/1900/ 5G AWS/5G 1900	700/700/AWS/1900/1900/	700/700/AWS/1900/1900/	700/700/AWS/1900/1900/	700/700/AWS/1900/1900/					RRUS 4426 B66	RMN	ı						
	EXISTING CONDITIONS PRIOR TO INSTALLATION AND NOTIFY ATC				B2	QD6616-7						ADD	RRUS 32 B2		1									
	OF ANY DISCREPANCIES.	BETA		120°						RRUS E2 B29	REL	ı												
	4. CONTRACTOR TO ENSURE PROPER SEPARATION IN	DEIX	237'	120		AIR6419 N77G			INTEGRATED		┨													
	ACCORDANCE WITH AT&T'S		233'	-	В3	AIR6449 N77D	5G CBAND	ADD	INTEGRATED	ADD	ı													
	FIRSTNET REQUIREMENTS (SEE		233	1		AII(0443 1177D			RRUS 4449 B5/B12	ADD	┨													
	SHEET R-602)		235'		B4	DMP65R-BU6DA LTE 700/5G 850/LTE WCS		ADD	RRUS 32 B30	REL	┨													
	CABLE LENGTHS FOR JUMPERS									KEL	┨													
	JUNCTION BOX TO RRU: 15'		235'		C1	BSA-M65R-BUU-H6-K	LTE 700/5G 850/LTE	RMN	RRUS 4449 B5/B12	RMN	ı													
	RRU TO ANTENNA: 10'					1900/1900/5G 1900			RRUS 8843 B2/B66A		4													
	STATUS ABBREVIATIONS		237'		C2	AIR6419 N77G	5G CBAND	ADD	INTEGRATED	ADD	ı													
	RMV: TO BE REMOVED	GAMMA	233'	240°		AIR6449 N77D			INTEGRATED		1													
	RMV. TO BE REMOVED				C3	BSA-M65R-BUU-H6-K	LTE 700/AWS/5G AWS	REL	RRUS 4478 B14	REL	4													
	REL: TO BE RELOCATED		235'		C4	BSA-M65R-BUU-H6-K	LTE 700/WCS	REL	RRUS E2 B29	REL	1													
	ADD: TO BE ADDED				<u> </u>	25,1 WOON 200 110 N	LIE /00/WCS	LIE /00/WGS	LIE /UU/WCS	LIE /UU/VVCS	LIE /UU/WCS	LIE /UU/WC3	LIE /UU/WCS	LIE /UU/WCS	LIE /00/WCS	LIE /00/WCS	LIE /00/WCS	LIE /00/WCS	LIE /UU/WCS	LIE 100/WCS		RRUS 4415 B30	1,522	ı

FINAL FIBER DISTRIBUTION/SQUID

STATUS

ADD

COAX

MODEL NUMBER

(1) DC6-48-60-18-8F

(1) DC6-48-60-0-8C-EC

(2) DC9-48-60-24-8C-EV





Dewberry Engineers Inc.

99 SUMMER STREET
SUITE 700
BOSTON, MA 02110
PHONE: 617.695.3400
FAX: 617.695.3310

REV.	DESCRIPTION	BY	DATE
\mathbb{A}_{-}	PRELIM	_FG_	12/10/21
<u></u>	PRELIM	BR	03/15/22
\wedge	FINAL	VL	07/18/22
$\overline{\wedge}$			
\square			

ATC SITE NUMBER: 88018

ATC SITE NAME: STAMFORD (KATOONA)

AT&T SITE NAME:

STAMFORD WEST

SITE ADDRESS: 168 CATOONA LANE STAMFORD.CT 06902-4573





DATE DRAWN:	12/10/21
ATC JOB NO:	13683396_D1
CUSTOMER ID:	CTL02135
CUSTOMER #:	10034997

RF SCHEDULE AND ANTENNA INSTALLATION

SHEET NUMBER:

FINAL CABLING SUMMARY

FIBER

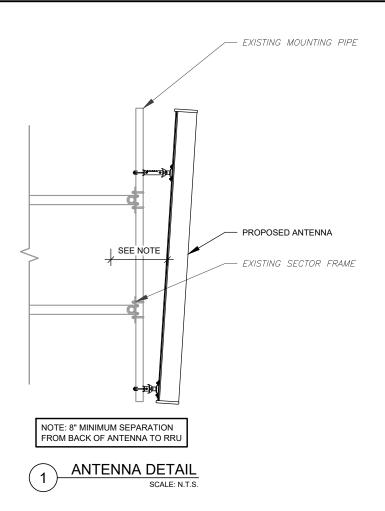
(1) FIBER

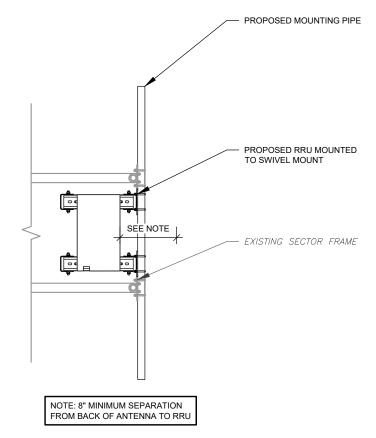
STATUS

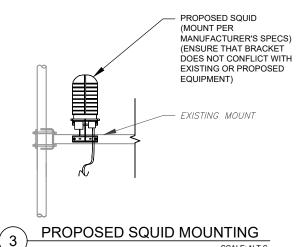
DC

(4) DC

REVISION

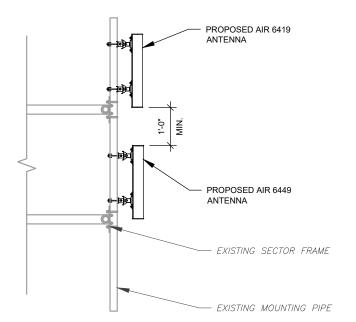






PROPOSED RRU MOUNTING DETAIL - TYPICAL
SCALE: N.T.S.

AS BUILT Centerline Communications Tristen Spear 2/8/23 8:47 AM



PROPOSED 5G ANTENNA MOUNTING DETAIL - TYPICAL

SCALE: N.T.S.





Dewberry Engineers Inc.

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FAX: 617.695.3310

REV.	DESCRIPTION	BY	DATE
<u> </u>	PRELIM	FG_	12/10/21
<u>B</u>	PRELIM	BR	03/15/22
∕₀`	FINAL		07/18/22
\triangle			
$\overline{\wedge}$			

ATC SITE NUMBER: 88018

ATC SITE NAME: STAMFORD (KATOONA)

AT&T SITE NAME:

STAMFORD WEST

SITE ADDRESS: 168 CATOONA LANE STAMFORD,CT 06902-4573

SEAL:

ROLL



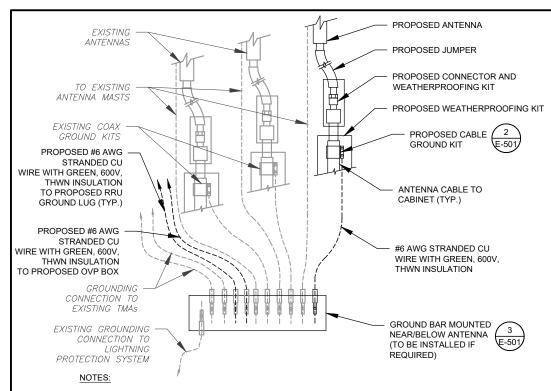
DATE DRAWN:	12/10/21
ATC JOB NO:	13683396_D1
CUSTOMER ID:	CTL02135
CUSTOMER #:	10034997

CONSTRUCTION DETAILS

SHEET NUMBER:

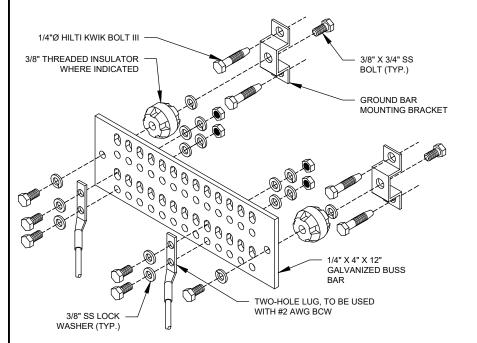
C-501

REVISION:



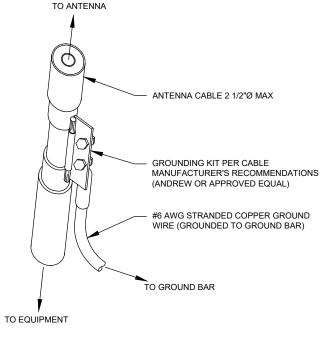
- THIS DETAIL IS INTENDED TO SHOW THE GENERAL GROUNDING REQUIREMENTS. SLIGHT ADJUSTMENTS MAY BE REQUIRED BASED ON EXISTING SITE CONDITIONS. THE CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS AS NEEDED AND INFORM THE CONSTRUCTION MANAGER OF ANY CONFLICTS.
- SITE GROUNDING SHALL COMPLY WITH AT&T GROUNDING STANDARDS, LATEST EDITION, AND COMPLY WITH AT&T GROUNDING CHECKLIST, LATEST VERSION. WHEN NATIONAL AND LOCAL GROUNDING CODES ARE MORE STRINGENT THEY SHALL GOVERN.





GROUND BAR NOTES

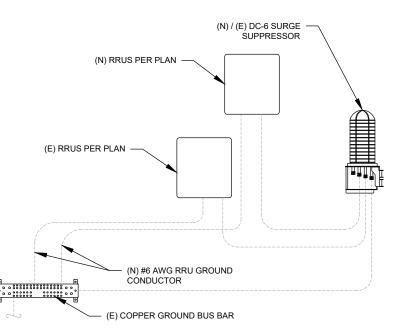
- GROUND KITS COME WITH ALL HARDWARE, NUTS, BOLTS, WASHERS, ETC. EXCEPT THE STRUCTURAL MOUNTING MEMBER(S).
- 2. GROUND BAR SHALL BE BOLTED TO STRUCTURAL MEMBER OR ANCHORED TO CONCRETE SLAB W/ HILTI KWIK BOLT III.

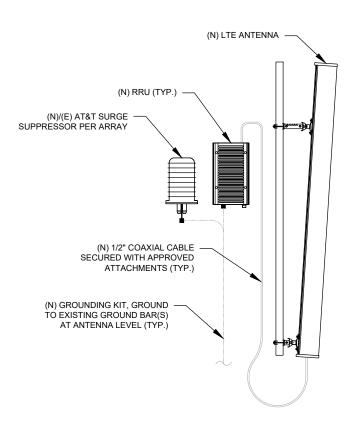


- $\frac{\text{GROUND KIT NOTES:}}{1.\quad \text{DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT}}$ GROUND WIRE DOWN TO GROUND BAR.
- 2. CONTRACTOR SHALL PROVIDE WEATHERPROOFING KIT (ANDREW PART NUMBER 221213) AND INSTALL/TAPE PER MANUFACTURER'S SPECIFICATIONS.

CABLE GROUND KIT CONNECTION DETAIL

AS BUILT Centerline Communications Tristen Spear 2/8/23 8:47 AM





RRU GROUNDING

1/4" X 4" X 6" GROUND BAR (ERICO P/N: EGBA14406CC OR EQUAL) TWO-HOLE LUG, TO BE USED WITH #2 AWG BCW (LOWER TOWER GROUND BAR ONLY) **GROUND BAR NOTES:**

3/8" SS LOCK WASHER

3/8" X 1-1/2" SS BOLT

(EACH SIDE)

- GROUND BAR KITS COME WITH ALL HARDWARE, NUTS, BOLTS, WASHERS, ETC. EXCEPT THE STRUCTURAL MOUNTING MEMBER(S).
- 2. GROUND BAR TO BE BONDED DIRECTLY TO TOWER.

TOWER GROUND BAR DETAIL

ANTENNA/RRU GROUNDING





Dewberry Engineers Inc. 99 SUMMER STREET SUITE 700 BOSTON, MA 02110 PHONE: 617.695.3400 FAX: 617.695.3310

REV.	DESCRIPTION	BY	DATE
<u> </u>	PRELIM	FG_	12/10/21
<u></u>	PRELIM	BR_	03/15/22
<u> </u>	FINAL	VL	07/18/22
\triangle			
\land			

ATC SITE NUMBER: 88018

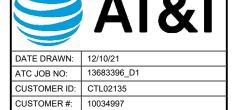
ATC SITE NAME: STAMFORD (KATOONA)

AT&T SITE NAME:

STAMFORD WEST

SITE ADDRESS: 168 CATOONA LANE STAMFORD,CT 06902-4573





GROUNDING DETAILS

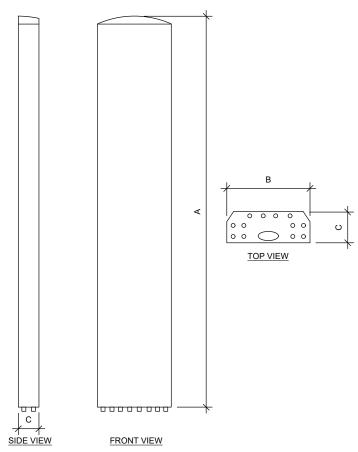
SHEET NUMBER:

E-501

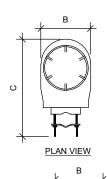
REVISION

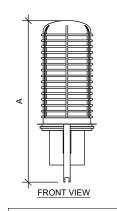


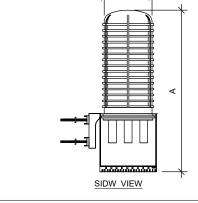
MAIN GROUND BAR DETAIL



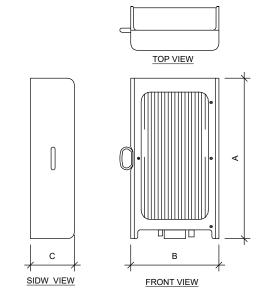
ANTENNA SPECIFICATIONS					
ANTENNA MODEL A B C WEIGH (LBS)					
AIR 6449 N77D	30.4"	15.9"	8.1"	81.6	
AIR6419 N77G	15.7"	30"	6.7"	70.0	
DMP65R-BU6DA	71.2"	20.7"	7.7"	79.4	







RAYCAP SPECIFICATIONS					
RAYCAP MODEL A B C WEIGHT (LBS)					
DC9-48-60-24-8C-EV	31.4"	18.3"	10.2"	16.0	



RRU SPECIFICATIONS					
RRU MODEL A B C WEIGH (LBS)					
RRUS 4449 B5, B12	17.9"	13.2"	9.4"	71.0	

AS BUILT Centerline Communications Tristen Spear 2/8/23 8:47 AM





Dewberry Engineers Inc.
99 SUMMER STREET
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BOSTON, MA 02110
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FAX: 617.695.3310

ATC SITE NUMBER: 88018

ATC SITE NAME: STAMFORD (KATOONA)

AT&T SITE NAME:

STAMFORD WEST

SITE ADDRESS: 168 CATOONA LANE STAMFORD,CT 06902-4573



DATE DRAWN: 12/10/21

ATC JOB NO: 13683396_D1

CUSTOMER ID: CTL02135

CUSTOMER #: 10034997

SUPPLEMENTAL

SHEET NUMBER:

R-601

EQUIPMENT SPECIFICATIONS

SCALE: N.T.S.



Post Modification Mount Analysis Report

ATC Site Name : STAMFORD (KATOONA), CT

ATC Site Number : 88018

Engineering Number : 13683396_C9_10

Mount Elevation : 236 ft

Carrier : AT&T Mobility

Carrier Site Name : MRCTB051681

Carrier Site Number : N/A

Site Location : 168 Catoona Lane

Stamford, CT 06902-4573

41.052825 , -73.56304722

County : Fairfield

Date : July 13, 2022

Max Usage : 63%

Result : Contingent Pass

Prepared By: Mitchell Chen

Structural Engineer II

Reviewed By:





COA: PEC.0001553

A.T. Engineering Service, PLLC - 3500 Regency Parkway, Suite 100 - Cary, NC 27518 - 919.468.0112 Office - 919.466.5414 Fax - www.americantower.com

AS BUILT Centerline Communications Tristen Spear 2/8/23 8:47 AM AMERICAN TOWER'

Eng. Number 13683396_C9_10 July 13, 2022 Page 1

Introduction

The purpose of this report is to summarize results of the mount analysis performed for AT&T Mobility at 236 ft.

Supporting Documents

Specification Sheets	Sabre C10857001C, dated November 15, 2021 MTS SF-U12, dated September 17, 2003	
Mount Mapping	Engineered Tower Solutions Project #21094494, dated November 4, 2021	
Radio Frequency Data Sheet	RFDS ID #10034997, dated October 25, 2021	
Reference Photos	Site photos from 2021	

Analysis

This mount was analyzed using American Tower Corporation's Mount Analysis Program and RISA-3D

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Conclusion

Based on the analysis results, the antenna mount meets the requirements per the applicable codes listed above provided the modifications listed below are completed:

Install modification per ATC Drawing #13683396_C9_10

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.

A.T. Engineering Service, PLLC - 3500 Regency Parkway, Suite 100 - Cary, NC 27518 - 919.468.0112 Office - 919.466.5414 Fax - www.americantower.com

NOTE: THIS SHEET WAS CREATED BY OTHERS AND PROVIDED AT THE REQUEST OF THE CUSTOMER WITHOUT EDIT. PLEASE REFERENCE THE MOUNT ANALYSIS REPORT FOR COMPLETE MOUNT ANALYSIS CALCULATIONS AND DETAILS. SUPPLEMENTAL PAGES INCLUDED IN THE CONSTRUCTION DRAWINGS ARE FOR REFERENCE ONLY. GENERAL CONTRACTOR IS TO VERYIFY THEY HAVE THE MOST RECENT MOUNT ANALYSIS PRIOR TO CONTRUCTION.





Dewberry Engineers Inc.
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BOSTON, MA 02110
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ATC SITE NUMBER: 88018

ATC SITE NAME: STAMFORD (KATOONA)

AT&T SITE NAME:

STAMFORD WEST

SITE ADDRESS: 168 CATOONA LANE STAMFORD.CT 06902-4573

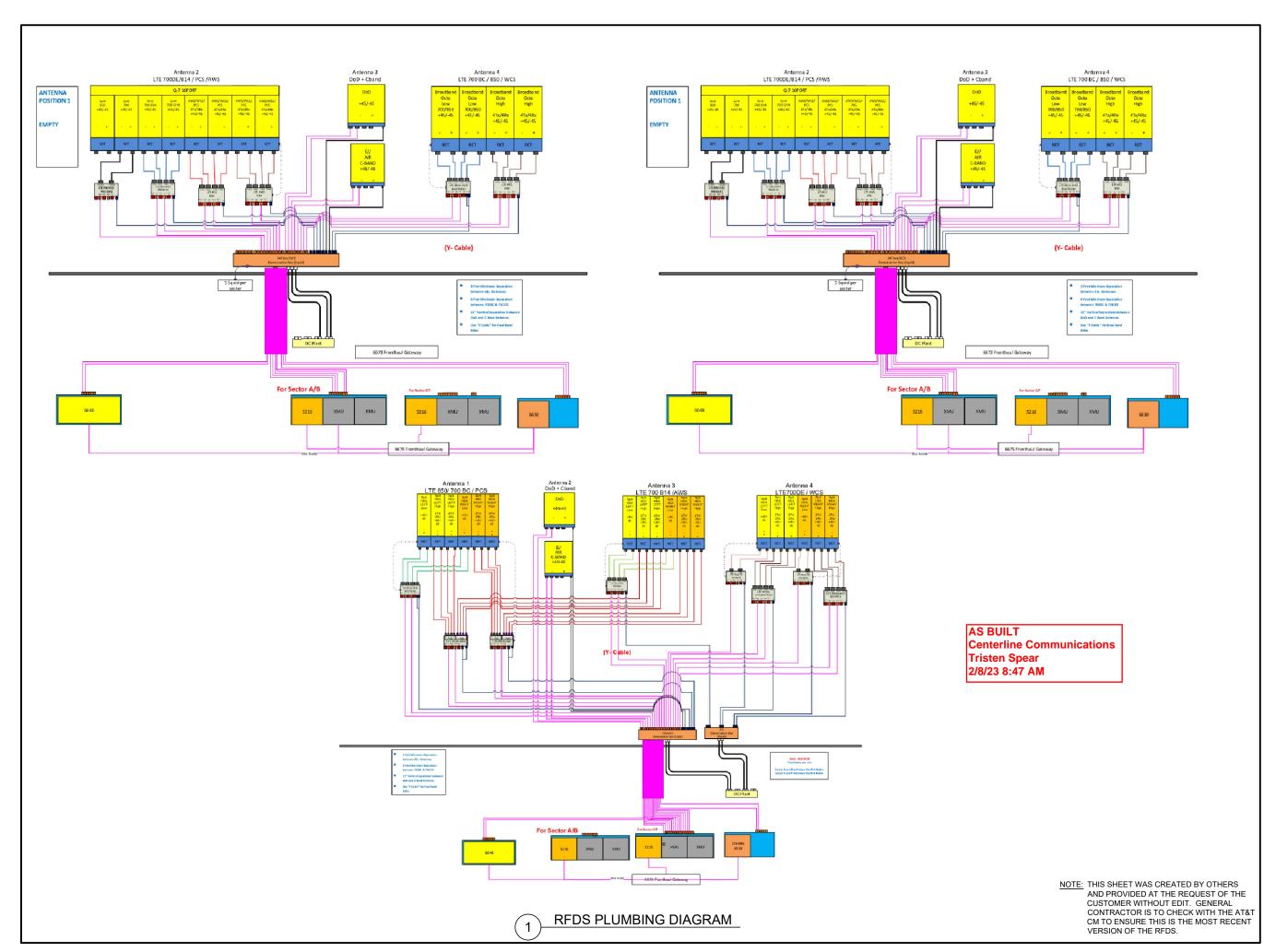


DATE DRAWN: 12/10/21
ATC JOB NO: 13683396_D1
CUSTOMER ID: CTL02135
CUSTOMER #: 10034997

SUPPLEMENTAL

SUEET NII IMDE

R-602







Dewberry Engineers Inc.

99 SUMMER STREET
SUITE 700
BOSTON, MA 02110
PHONE: 617.695.3400

FAX: 617.695.3310

ATC SITE NUMBER: 88018

ATC SITE NAME: STAMFORD (KATOONA)

AT&T SITE NAME:

STAMFORD WEST

SITE ADDRESS: 168 CATOONA LANE STAMFORD,CT 06902-4573

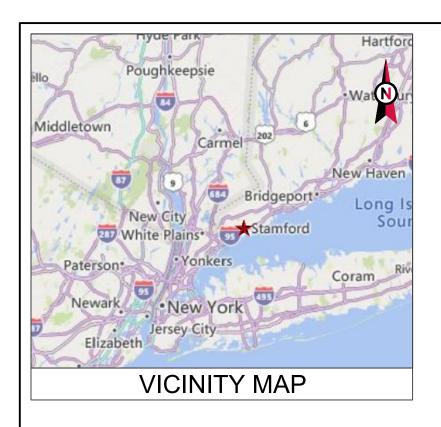


DATE DRAWN: 12/10/21
ATC JOB NO: 13683396_D1
CUSTOMER ID: CTL02135
CUSTOMER #: 10034997

SUPPLEMENTAL

SHEET NUMBER:

R-603





SITE NAME: STAMFORD (KATOONA)

SITE NUMBER: 88018

ATC PROJECT NUMBER: 13683396 C9 10

SITE ADDRESS: 168 CATOONA LANE

STAMFORD, CT 06902



LOCATION MAP

IRD WATCH SITE:

PLEASE CONTACT BIRD.WATCH@AMERICANTOWER.COM OR AMERICAN TOWER NOC AT 877-518-6937 FOR ASSISTANCE

MOUNT REINFORCEMENT DRAWINGS PREPARED FOR AT&T MOBILITY

PROJECT TEAM	PROJECT DESCRIPTION	SHEET	SHEET TITLE	REV.
	THE DROUGHT DEPLOTED IN THESE PLANS ARE DARED ON THE	G-002	IBC GENERAL NOTES & MOUNT MODIFICATION INSPECTION	0
TOWER OWNER	THE PROJECT DEPICTED IN THESE PLANS ARE BASED ON THE RECOMMENDATIONS OUTLINED IN THE STRUCTURAL ANALYSIS COMPLETED	S-101	MODIFICATION PROFILE (ALPHA & BETA SECTORS)	0
AMERICAN TOWER	UNDER ENGINEERING PROJECT NUMBER 13683396_C8_09 DATED 07/07/22. SATISFACTORY COMPLETION OF THE WORK INDICATED IN THESE PLANS WILL	S-102	MODIFICATION PROFILE (GAMMA SECTOR)	0
10 PRESIDENTAL WAY	RESULT IN THE STRUCTURE MEETING THE REQUIREMENTS OF THE SPECIFICATIONS UNDER WHICH THE STRUCTURAL WAS COMPLETED.	S-103	SAFETY CLIMB LAYOUT	0
WOBURN, MA 01801	SI ESINOMISMO SINDEM WINGTON IE SINGSTONE WAS SOMILEETED.	R-901	SUPPLEMENTAL	0
	PROJECT NOTE	R-902	SUPPLEMENTAL	0
ENGINEERED BY		R-903	SUPPLEMENTAL	0
ATC TOWER SERVICES	THE PROJECT DEPICTED IN THESE PLANS QUALIFIES AS AN ELIGIBLE FACILITIES REQUEST ENTITLED TO EXPEDITED REVIEW UNDER 47 U.S.C.	R-904	SUPPLEMENTAL	0
3500 REGENCY PARKWAY, SUITE 100	§ 1455(A) AS A MODIFICATION OF AN EXISTING WIRELESS TOWER THAT INVOLVES THE COLLOCATION, REMOVAL, AND/OR REPLACEMENT OF			
CARY, NC 27518	TRANSMISSION EQUIPMENT THAT IS NOT A SUBSTANTIAL CHANGE UNDER CFR § 1.6100 (B)(7).			
	G N g 1.0100 (B)(1).		AS BUILT	
CARRIER INFORMATION	COMPLIANCE CODE		Centerline Communications	
CARRIER: AT&T MOBILITY			Tristen Spear	
CARRIER SITE NAME: MRCTB051681	ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS		2/8/23 8:47 AM	
CARRIER SITE NUMBER: N/A	ADOPTED BY THE LOCAL GOVERNMENT AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE			
	CODES.			
	1. ANSI/TIA/EIA: STRUCTURAL STANDARDS (222-H EDITION)			
	2. INTERNATIONAL BUILDING CODE (2015 IBC)			
044	3. CONNECTICUT STATE BUILDING CODE (2018)			
	PROJECT LOCATION			
Know what's below.	GEOGRAPHIC COORDINATES			
Call before you dig.	LATITUDE: 41.05281657			
	LONGITUDE: -73.56307265			



3500 REGENCY PARKWAY SUITE 100 CARY, NC 27518 PHONE: (919) 468-0112 COA: PEC.0001553

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	REV.	DESCRIPTION	BY	DATE
	△_	FIRST ISSUE	KPJ	07/14/22
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ATC SITE NUMBER:

88018

ATC SITE NAME:

STAMFORD (KATOONA)

CONNECTICUT

SITE ADDRESS: 168 CATOONA LANE STAMFORD, CT 06902



DRAWN BY:	KPJ
APPROVED BY:	MCC
DATE DRAWN:	07/14/22
ATC JOB NO:	13683396_C9_10

COVER

SHEET NUMBER:

ER: REVISION

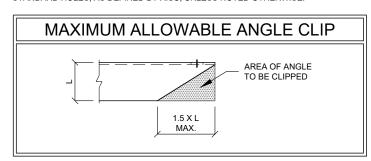
G-001

GENERAL

- ALL WORK TO BE COMPLETED PER APPLICABLE LOCAL, STATE, FEDERAL CODES AND ORDINANCES AND COMPLY WITH ATC CONSTRUCTION SPECIFICATIONS FOR WIRELESS TOWER SITES. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND ABIDING BY ALL REQUIRED PERMITS.
- ALL WORK INDICATED ON THESE DRAWINGS SHALL BE PERFORMED BY QUALIFIED CONTRACTORS EXPERIENCED IN TOWER AND FOUNDATION CONSTRUCTION.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD IMMEDIATELY OF ANY INSTALLATION INTERFERENCES. ALL NEW WORK SHALL ACCOMMODATE EXISTING CONDITIONS. DETAILS NOT SPECIFICALLY SHOWN ON THE DRAWINGS SHALL FOLLOW SIMILAR DETAILS FOR THIS JOB.
- I. ANY SUBSTITUTIONS SHALL CONFORM TO THE REQUIREMENTS OF THESE NOTES AND SPECIFICATIONS, AND SHOULD BE SIMILAR TO THOSE SHOWN. ALL SUBSTITUTIONS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL PRIOR TO FARRICATION.
- 5. ANY MANUFACTURED DESIGN ELEMENTS SHALL CONFORM TO THE REQUIREMENTS OF THESE NOTES AND SPECIFICATIONS AND SHOULD BE SIMILAR TO THOSE SHOWN. THESE DESIGN ELEMENTS MUST BE STAMPED BY AN ENGINEER PROFESSIONALLY REGISTERED IN THE STATE OF THE PROJECT, AND SUBMITTED TO THE ENGINEER OF RECORD FOR APPROVAL PRIOR TO FABRICATION.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH LOCAL CODES AND OSHA SAFETY REGULATIONS.
- 7. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND EXECUTION OF ALL MISCELLANEOUS SHORING, BRACING, TEMPORARY SUPPORTS, ETC. NECESSARY, PER ANSI/TIA-322 AND ANSI/ASSE A10.48, TO PROVIDE A COMPLETE AND STABLE STRUCTURE AS SHOWN ON THESE DRAWINGS.
- 8. CONTRACTOR'S PROPOSED INSTALLATION SHALL NOT INTERFERE, NOR DENY ACCESS TO. ANY EXISTING OPERATIONAL AND SAFETY EQUIPMENT.

STRUCTURAL STEEL

- ALL DETAILING, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AISC SPECIFICATIONS. LATEST EDITION.
- ALL EXPOSED STRUCTURAL STEEL MEMBERS SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION PER ASTM A123. EXPOSED STEEL HARDWARE AND ANCHOR BOLTS SHALL BE GALVANIZED PER ASTM A153 OR B695.
- ALL U-BOLTS SHALL BE ASTM A36 OR EQUIVALENT, WITH LOCKING DEVICE, UNLESS NOTED OTHERWISE.
- 4. FIELD CUT EDGES, EXCEPT DRILLED HOLES, SHALL BE GROUND SMOOTH.
- 5. ALL FIELD CUT SURFACES, FIELD DRILLED HOLES & GROUND SURFACES WHERE EXISTING PAINT OR GALVANIZATION REMOVAL WAS REQUIRED SHALL BE REPAIRED WITH (2) BRUSHED COATS OF ZRC GALVILITE COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURERS RECOMMENDATIONS.
- ALL STRUCTURAL STEEL EMBEDDED IN THE CONCRETE SHALL BE APPLIED WITH (2)
 BRUSHED COATS OF POLYGUARD CA-14 MASTIC OR EQUIVALENT. REFER TO THE
 MANUFACTURER SPECIFICATIONS FOR SURFACE PREPARATION AND APPLICATION.
 APPLICATION OF POLYGUARD 400 WRAP IS NOT ESSENTIAL.
- 7. CONTRACTOR SHALL PERFORM WORK ON ONLY ONE (1) TOWER FACE AND REPLACE/REINFORCE ONE (1) BOLT/MEMBER AT A TIME.
- 8. ALL FIELD DRILLED HOLES TO BE USED FOR FIELD BOLTING INSTALLATION SHALL BE STANDARD HOLES, AS DEFINED BY AISC, UNLESS NOTED OTHERWISE.



PAINT

 AS REQUIRED, CLEAN AND PAINT PROPOSED STEEL ACCORDING TO FAA ADVISORY CIRCULAR AC 70/7460-1L.

WELDING

- ALL WELDING TO BE PERFORMED BY AWS CERTIFIED WELDERS AND CONDUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AWS WELDING CODE D1.1.
- ALL WELDS SHALL BE INSPECTED VISUALLY. IF DIRECTED BY ENGINEER OF RECORD, 25% OF WELDS SHALL BE INSPECTED WITH DYE PENETRANT OR MAGNETIC PARTICLE (100% IF REJECTABLE DEFECTS ARE FOUND) TO MEET THE ACCEPTANCE CRITERIA OF AWS D1.1. REPAIR ALL WELDS AS NECESSARY.
- 3. INSPECTION SHALL BE PERFORMED BY AN AWS CERTIFIED WELD INSPECTOR.
- 4. ALL ELECTRODES TO BE LOW HYDROGEN, MATCHING FILLER AND/OR BASE METAL, PER AWS D1.1, UNLESS NOTED OTHERWISE.
- IN CASES WHERE BASE METAL GRADE IS UNKNOWN, ALL WELDING ON LATTICE TOWERS SHALL BE DONE WITH E70XX ELECTRODES; ALL WELDING ON POLE STRUCTURES SHALL BE DONE WITH E80XX ELECTRODES, UNLESS NOTED OTHERWISE.
- 6. PRIOR TO FIELD WELDING GALVANIZED MATERIAL, CONTRACTOR SHALL GRIND OFF GALVANIZING 1/2" BEYOND ALL FIELD WELD SURFACES. AFTER WELD AND WELD INSPECTION IS COMPLETE, REPAIR ALL GROUND AND WELDED SURFACES WITH ZRC GALVILITE COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURERS RECOMMENDATIONS.

BOLT TIGHTENING PROCEDURE

MMI - MOUNT MODIFICATION INSPECTION
GC - GENERAL CONTRACTOR
ATC - AMERICAN TOWER CORPORATION

- STRUCTURAL CONNECTIONS TO BE ASSEMBLED AND INSPECTED IN ACCORDANCE WITH RCSC SPECIFICATIONS.
- FLANGE BOLTS SHALL BE INSTALLED AND TIGHTENED USING DIRECT TENSION INDICATING (DTI)
 SQUIRTER WASHERS. DTI SQUIRTER WASHERS ARE TO BE INSTALLED AND ORIENTED / TIGHTENED PER
 MANUFACTURER SPECIFICATIONS TO ACHIEVE DESIRED LEVEL OF BOLT PRE-TENSION.
- 3. IN LIEU OF USING DTI SQUIRTER WASHERS, FLANGE BOLTS MAY BE TIGHTENED USING AISC / RCSC "TURN-OF-THE-NUT" METHOD, PENDING APPROVAL BY THE ENGINEER OF RECORD (EOR). TIGHTEN FLANGE BOLTS USING THE CHART BELOW:

BOLT LENGTHS UP TO AND INCLUDING FOUR DIAMETERS

1/2"	BOLTS UP TO AND INCLUDING 2.0 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT
5/8"	BOLTS UP TO AND INCLUDING 2.5 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT
3/4"	BOLTS UP TO AND INCLUDING 3.0 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT
7/8"	BOLTS UP TO AND INCLUDING 3.5 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT
1"	BOLTS UP TO AND INCLUDING 4.0 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT
1-1/8"	BOLTS UP TO AND INCLUDING 4.5 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT
1-1/4"	BOLTS UP TO AND INCLUDING 5.0 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT
1-3/8"	BOLTS UP TO AND INCLUDING 5.5 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT
1-1/2"	BOLTS UP TO AND INCLUDING 6.0 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT

BOLT LENGTHS OVER FOUR DIAMETERS BUT NOT EXCEEDING EIGHT DIAMETERS

1/2"	BOLTS 2.25 TO 4.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
5/8"	BOLTS 2.75 TO 5.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
3/4"	BOLTS 3.25 TO 6.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
7/8"	BOLTS 3.75 TO 7.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
1"	BOLTS 4.25 TO 8.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
1-1/8"	BOLTS 4.75 TO 9.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
1-1/4"	BOLTS 5.25 TO 10.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
1-3/8"	BOLTS 5.75 TO 11.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
1-1/2"	BOLTS 6.25 TO 12.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT

BOLT TIGHTENING PROCEDURE (CONTINUED)

4. SPLICE BOLTS SUBJECT TO DIRECT TENSION SHALL BE INSTALLED AND TIGHTENED AS PER SECTION 8.2.1 OF THE AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING A325 OR A490 BOLTS", LOCATED IN THE AISC MANUAL OF STEEL CONSTRUCTION. THE INSTALLATION PROCEDURE IS PARAPHRASED AS FOLLOWS:

FASTENERS SHALL BE INSTALLED IN PROPERLY ALIGNED HOLES AND TIGHTENED BY ONE OF THE METHODS DESCRIBED IN SUBSECTION 8.2.1 THROUGH 8.2.4.

8.2.1 TURN-OF-NUT PRETENSIONING

BOLTS SHALL BE INSTALLED IN ALL HOLES OF THE CONNECTION AND BROUGHT TO A SNUG TIGHT CONDITION AS DEFINED IN SECTION 8.1, UNTIL ALL THE BOLTS ARE SIMULTANEOUSLY SNUG TIGHT AND THE CONNECTION IS FULLY COMPACTED. FOLLOWING THIS INITIAL OPERATION ALL BOLTS IN THE CONNECTION SHALL BE TIGHTENED FURTHER BY THE APPLICABLE AMOUNT OF ROTATION SPECIFIED ABOVE. DURING THE TIGHTENING OPERATION THERE SHALL BE NO ROTATION OF THE PART NOT TURNED BY THE WRENCH. TIGHTENING SHALL PROGRESS SYSTEMATICALLY.

. ALL OTHER BOLTED CONNECTIONS SHALL BE BROUGHT TO A SNUG TIGHT CONDITION AS DEFINED IN SECTION 8.1 OF THE SPECIFICATION.

ALL BOLT HOLES SHALL BE ALIGNED TO PERMIT INSERTION OF THE BOLTS WITHOUT UNDUE DAMAGE TO THE THREADS. BOLTS SHALL BE PLACED IN ALL HOLES WITH WASHERS POSITIONED AS REQUIRED AND NUTS THREADED TO COMPLETE THE ASSEMBLY. COMPACTING THE JOINT TO THE SNUG-TIGHT CONDITION SHALL PROGRESS SYSTEMATICALLY FROM THE MOST RIGID PART OF THE JOINT. THE SNUG-TIGHTENED CONDITION IS THE TIGHTNESS THAT IS ATTAINED WITH A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT OF AN IRONWORKER USING AN ORDINARY SPUD WRENCH TO BRING THE CONNECTED PLIES INTO FIRM CONTACT.

AS BUILT Centerline Communications Tristen Spear 2/8/23 8:47 AM

MODIFICATION INSPECTION NOTES

THE MOUNT MODIFICATION INSPECTION (MMI) PROCEDURE IS INTENDED TO CONFIRM THAT CONSTRUCTION AND INSTALLATION MEETS ENGINEERING DESIGN, ATC PROCEDURES AND ATC STANDARD SPECIFICATIONS FOR WIRELESS TOWER SITES.

TO ENSURE THAT THE REQUIREMENTS OF THE MMI ARE MET, IT IS VITAL THAT THE GENERAL CONTRACTOR SUBMIT ALL REQUIRED PHOTOGRAPHS AND DRAWINGS TO AMERICAN TOWER CORPORATION (ATC).

GENERAL CONTRACTOR

THE GENERAL CONTRACTOR IS REQUIRED TO:

- REVIEW THE REQUIREMENTS OF THE MMI CHECKLIST.
- UNDERSTAND ALL INSPECTION REQUIREMENTS

THE GENERAL CONTRACTOR SHALL PERFORM AND RECORD THE INSPECTION RESULTS IN ACCORDANCE WITH THE REQUIREMENTS OF THE MMI CHECKLIST.

MOUNT MODIFICATION INSPECTION CHECKLIST INSPECTION TESTING **RESPONSIBILITY** INSPECTION DOCUMENT DESCRIPTION REQUIRED PHOTOGRAPHIC EVIDENCE OF COLD GALVANIZATION TYPE AND APPLICATION IN ALL APPLICABLE LOCATIONS TO BE INCLUDED WITHIN THE MMI ON-SITE COLD GALVANIZING VERIFICATION GC GC AS-BUILT DRAWINGS WITH "AS-BUILT" DRAWINGS INDICATING ANY APPROVED CHANGES TO ENGINEERED PLANS TO MMI FOR APPROVAL/REVIEW AND GC CONSTRUCTION RED-LINES INCLUSION IN MMI REPORT PHOTOGRAPHIC EVIDENCE OF MOUNT MODIFICATION INSPECTION, ON SITE REMEDIATION, AND ITEMS FAILING INSPECTION & **PHOTOGRAPHS** REQUIRING FOLLOW UP TO BE INCLUDED WITHIN THE MMI REPORT. COMPLETE PHOTO LOG IS TO BE SUBMITTED WITHIN MMI GC

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A.T. ENGINEERING SERVICE, PLLC
3500 REGENCY PARKWAY
SUITE 100
CARY, NC 27518
PHONE: (919) 468-0112

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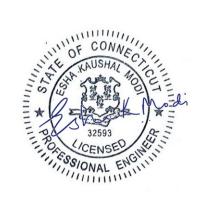
88018

ATC SITE NAME:

STAMFORD (KATOONA)

CONNECTICUT

SITE ADDRESS: 168 CATOONA LANE STAMFORD, CT 06902



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IBC GENERAL NOTES & MOUNT MODIFICATION INSPECTION

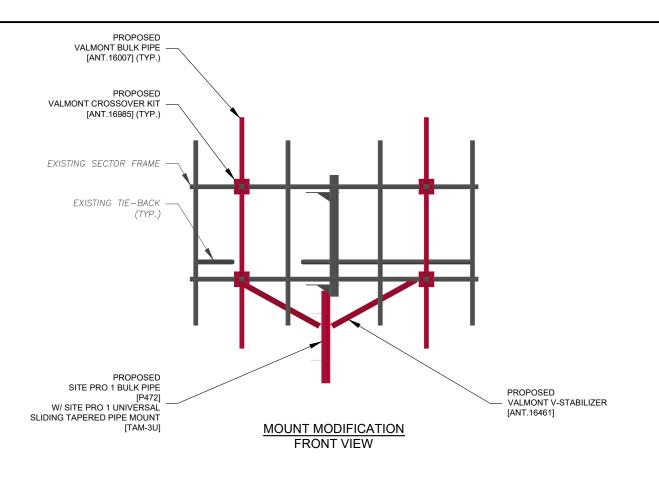
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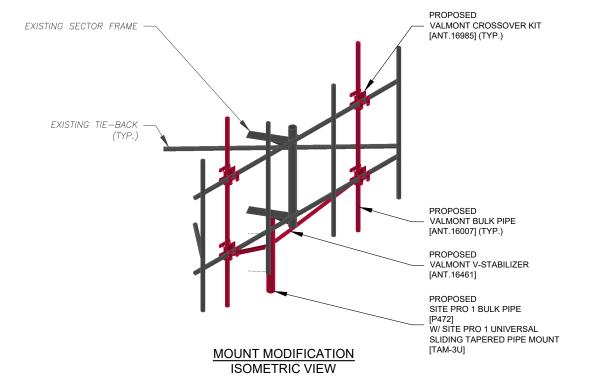
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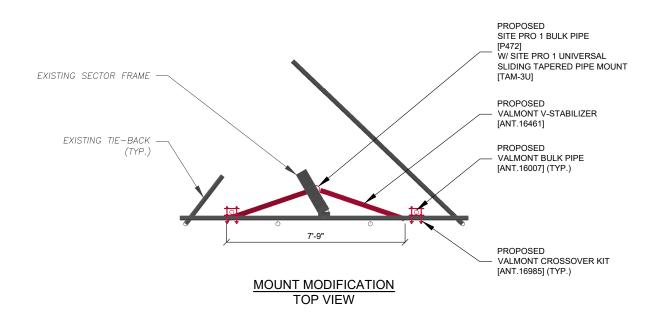
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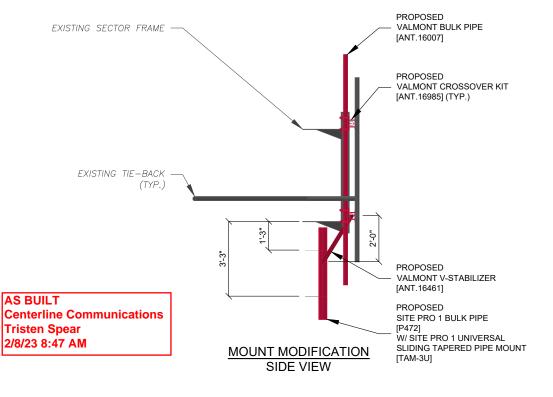
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REVISION









REINFORCEMENT MATERIALS LIST (ALL SECTORS)

QUANTITY REQUIRED	MANUFACTURER	PART NUMBER	DESCRIPTION	LENGTH	PART WEIGHT (lb)	WEIGHT (lb)	NOTES
2	VALMONT	ANT. 16461	SECTOR FRAME STABILIZER - VERTICAL		65.66	131	OR EQUIVALENT SITE PRO 1 - SFS-V
6	VALMONT	ANT. 16007	PIPE 2-3/8"OD X 126", ASTM A53 GRADE B, SCHEDULE 40	10'-6"	39	234	OR EQUIVALENT SITE PRO 1 - P2126
20	VALMONT	ANT. 16985	CROSSOVER PLATE		11.98	240	OR EQUIVALENT SITE PRO 1 - SCX7-U
2	SITE PRO 1	P472	PIPE 4-1/2"OD X 72", ASTM A53 GRADE B, SCHEDULE 40	6'-0"	65	130	GALVANIZED
2	SITE PRO 1	TAM-3U	1' STAND-OFF, 3-1/2" AND 4-1/2" OD PIPE UNIVERSAL SLIDING TA		78.72	157	
2			2.375" OD X 0.154" PIPE	15'-6"	59.4	119	
	TOTAL WEIGHT (Ib) 1 011						

MOTE:=

IN THE EVENT A PROPOSED MODIFICATION PART LISTED IN THE DRAWINGS IS NOT AVAILABLE, AN APPROVED EQUIVALENT CAN BE SUBSTITUTED. FOR APPROVAL OF EQUIVALENT PART OR QUESTIONS PLEASE CONTACT AMERICAN TOWER PMI INBOX AT PMI@AMERICANTOWER.COM.



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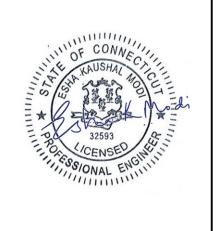
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CONNECTICUT

SITE ADDRESS: 168 CATOONA LANE STAMFORD, CT 06902



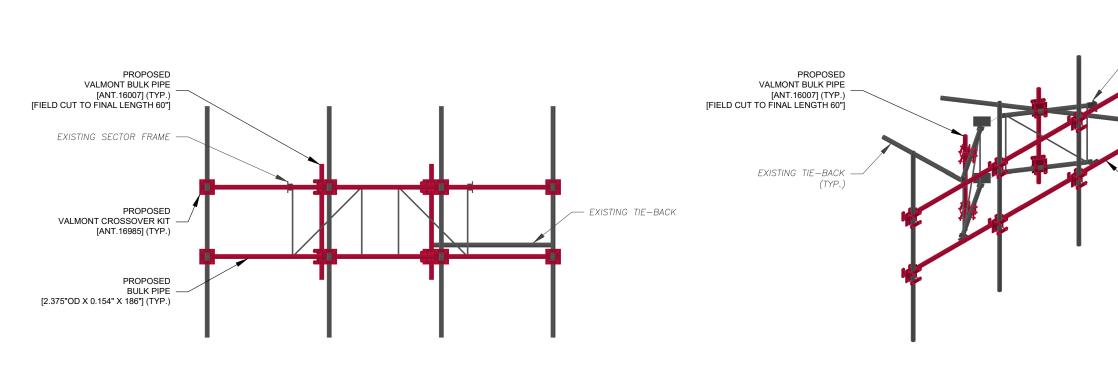
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ATC JOB NO:	13683396_C9_10

MODIFICATION PROFILE (ALPHA & BETA SECTORS)

SHEET NUMBER:

BER: REVISION

S-101



MOUNT MODIFICATION

FRONT VIEW

MOUNT MODIFICATION

TOP VIEW

EXISTING SECTOR FRAME -

[FIELD CUT TO FINAL LENGTH 60"]

VALMONT CROSSOVER KIT

[2.375"OD X 0.154" X 186"]

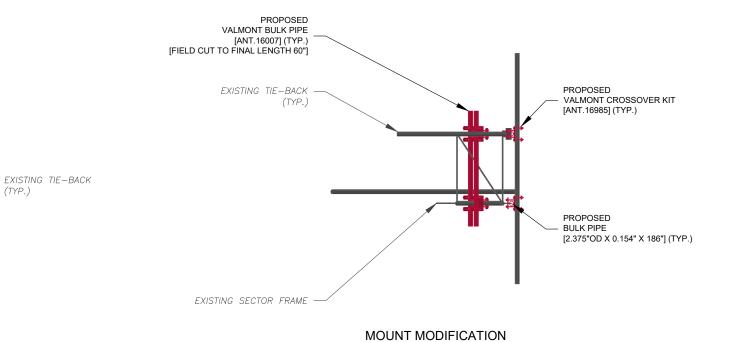
PROPOSED VALMONT BULK PIPE [ANT.16007] (TYP.)

PROPOSED

PROPOSED BULK PIPE

[ANT.16985] (TYP.)

MOUNT MODIFICATION ISOMETRIC VIEW



AS BUILT Centerline Communications Tristen Spear 2/8/23 8:47 AM

-NOTES

1. CONTRACTOR TO REPLACE EXISTING FACE HORIZONTAL PIPES.

SIDE VIEW

2. IN THE EVENT A PROPOSED MODIFICATION PART LISTED IN THE DRAWINGS IS NOT AVAILABLE, AN APPROVED EQUIVALENT CAN BE SUBSTITUTED. FOR APPROVAL OF EQUIVALENT PART OR QUESTIONS PLEASE CONTACT AMERICAN TOWER PMI INBOX AT PMI@AMERICANTOWER.COM.



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EXISTING SECTOR FRAME

PROPOSED

PROPOSED

BULK PIPE

VALMONT CROSSOVER KIT [ANT.16985] (TYP.)

[2.375"OD X 0.154" X 186"] (TYP.)

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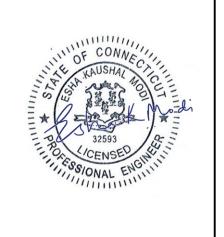
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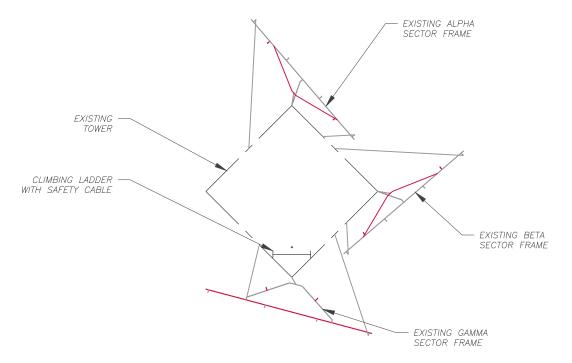


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DATE DRAWN:	07/14/22
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MODIFICATION PROFILE (GAMMA SECTOR)

S-102

REVISION



Gamma mods were existing

Redlined - C-401, S-103 Centerline Communications Tristen Spear 2/8/23 8:47 AM

SAFETY CLIMB LOCATION



NOTE: =

CONTRACTOR TO INSTALL MOUNT MODIFICATIONS PER THE MANUFACTURERS SPECIFICATION.

MODIFICATIONS SHALL NOT OBSTRUCT, INTERFERE, OR BLOCK EXISTING SAFETY CLIMB SYSTEM. IF
ANY OF THESE OCCURS DURING INSTALLATION CONTACT THE AMERICAN TOWER PMI INBOX
PMI@AMERICANTOWER.COM



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SAFETY CLIMB LAYOUT

SHEET NUMBER:

REVISION:

S-103

Option 1 - Modify: Estimate for AT&T Mobility @ 88018 (STAMFORD (KATOONA)) -- 13683396_C9_10

Site Data and Design Parameters		
Asset OTM #	88018	
Asset Name	STAMFORD (KATOONA)	
State	Connecticut	
County	Fairfield	
City	Stamford	
Failing Analysis Eng. #	13683396_C8_09	
Mod. Drawing Eng. #	13683396_C9_10	

Dates and Designers		
Mount Analysis Date / By	7/7/2022 /	ВН
Design Date / By	7/13/2022 /	MCC
Checked Date / By	1	
Detailer (Prev/Current/Level)	1	1
Software	RISA	
Tower Type	Self-Support	4-sided
Mount Type	T-Frame	

Building Codes	TIA/IBC:	ANSI/TIA-22	2-H /	2015 IBC
	Local:	2018 Connecticut	t State B	Building Code
Failing Analysis % / Code		103%	/	TIA-H
Post Mod % / Controlling Member		63%	/	Connections
Usage Limit % / Reason		100%	1	Jurisdiction

Carriers		
# of RADs	1	
Carrier	AT&T Mobility	

Any modification design comments or assumptions? Yes (including notes to the Estimator)

Gamma Sector: No structural failures were addressed with the noted modifications. Modifications address

Carrier's antenna spacing requirements.

Modification Summary		
Item#	Scope Item	
1	Install Site Pro 1 SFS-V V Style Stabilizer (ANT.16461) on A & B sector(s)	
2	Install 2.0" Pipe x 186" Pipe w/ Site Pro 1 SCX7-U (ANT.16985) crossovers on Gamma sector(s)*	
3	Install 2.0" Pipe x 186" Pipe w/ Site Pro 1 SCX7-U (ANT.16985) crossovers on Gamma sector(s)*	
4	Install Site Pro 1 P2126 (ANT.16007) MP w/ Site Pro 1 SCX7-U (ANT.16985) crossovers on A & B sector(s) at position 2.*	
5	Install Site Pro 1 P2126 (ANT.16007) MP w/ Site Pro 1 SCX7-U (ANT.16985) crossovers on A & B sector(s) at position 5.*	
6	Install Site Pro 1 P2126 (ANT.16007) MP w/ Site Pro 1 SCX7-U (ANT.16985) crossovers on Gamma sector(s) at position 5.	
7	Install Site Pro 1 P2126 (ANT.16007) MP w/ Site Pro 1 SCX7-U (ANT.16985) crossovers on Gamma sector(s) at position 6.	
8	Install Site Pro 1 TAM-3U Leg Mount with P472 Pipe on A & B tower legs	

Estimated Modification Cost	\$16,000	
-----------------------------	----------	--

Option 2 - Replace: Estimate for AT&T Mobility @ 88018 (STAMFORD (KATOONA)) -- 13683396_C9_10

Tower Info		
Tower Number	88018	
Tower Name	STAMFORD (KATOONA)	
State	Connecticut	

Jurisdictional Codes		
Design TIA Code	Unknown	
Design TIA Code Current TIA Code	ANSI/TIA-222-H	
IBC	2015 IBC	
Other	2018 Connecticut State Building Code	

Project Requirements		
New Mount Face Width	150	in
Number of Sectors	3	

	Project Information
Carrier	AT&T Mobility
Structure Type	Self-Support

Recommended Mount Replacement	
Sabre C10857007C*	

Estimated Replacement Cost \$ 36,000.00

*or approved equivalent

AS BUILT Centerline Communications Tristen Spear 2/8/23 8:47 AM

 $X:\S-V\Stamford\ (Katoona),\ CT\ (88018)\ 13683396\ AT\&T\ MOBILITY\ 13683396_10_MOUNT_DRW\Mount\ Modification\ SOW\ v1.5$

SUPPLEMENTAL

SHEET NUMBER:

REVISION:

R-901

U

AMERICAN TOWER

Post Modification Mount Analysis Report

: STAMFORD (KATOONA), CT ATC Site Name

ATC Site Number : 13683396_C9_10

: 236 ft Mount Elevation : AT&T Mobility

Carrier Site Name : MRCTB051681 Carrier Site Number

: 168 Catoona Lane

Stamford, CT 06902-4573 41.052825 , -73.56304722

: Contingent Pass

County : Fairfield

: July 13, 2022 May Usa : 63%

Prepared By: Mitchell Chen

Result



126 CA

COA- PEC 0001553



Eng. Number 13683396_C9_10 July 13, 2022

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A.T. Engineering Service, PLLC - 3500 Regency Parkway, Suite 100 - Cary, NC 27518 - 919.468.0112 Office - 919.466.5414 Fax - www.americantower.com



July 13, 2022 Page 1

The purpose of this report is to summarize results of the mount analysis performed for AT&T Mobility at 236

Specification Sheets	Sabre C10857001C, dated November 15, 2021
	MTS SF-U12, dated September 17, 2003
Mount Mapping	Engineered Tower Solutions Project #21094494, dated November 4, 2021
Radio Frequency Data Sheet	RFDS ID #10034997, dated October 25, 2021
Reference Photos	Site photos from 2021

Analysis

This mount was analyzed using American Tower Corporation's Mount Analysis Program and RISA-3D

Basic Wind Speed:	117 mph (3-Second Gust)
Basic Wind Speed w/ Ice:	50 mph (3-Second Gust) w/ 1.00" radial ice concurrent
Codes:	ANSI/TIA-222-H
Exposure Category:	В
Risk Category:	II
Topographic Factor Procedure:	Method 2
Feature:	Flat
Crest Height (H):	0 ft
Crest Length (L):	0 ft
Spectral Response:	Ss = 0.265, S1 = 0.059
Site Class:	D - Stiff Soil - Default
Live Loads:	Lm = 500 lbs, Lv = 250 lbs

Based on the analysis results, the antenna mount meets the requirements per the applicable codes listed above provided the modifications listed below are completed:

Install modification per ATC Drawing #13683396 C9 10

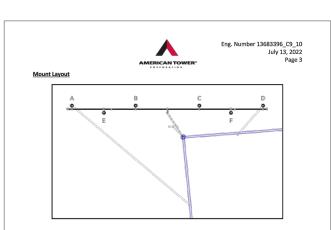
If you have any questions or require additional information, please contact American Tower via email at $Engineering@americantower.com.\ Please include the American Tower site name, site number, and engineering number in the subject line for any questions.$



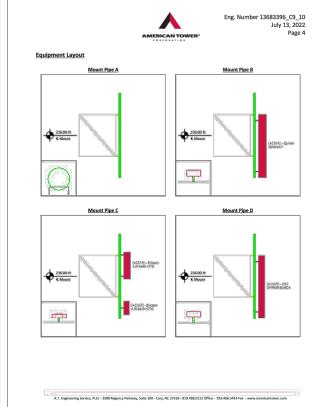
Eng. Number 13683396_C9_10 July 13, 2022

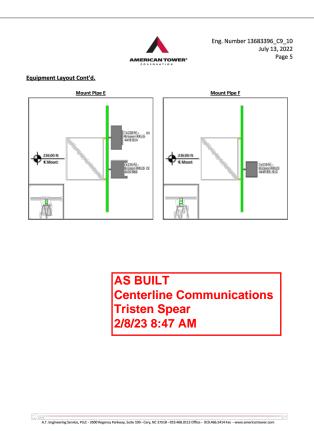
Mount Centerline (ft)	Equipment Centerline (ft)	Qty	Equipment Manufacturer & Model
	237.0	3	Ericsson AIR 6449 n77D
		6	CCI BSA-M65R-BUU-H6 (101 lbs)
		2	CCI DMP65R-BU6DA
		2	Quintel QD6616-7
		3	Powerwave Allgon TT19-08BP111-001
		2	Raycap DC9-48-60-24-8C-EV
		2	Raycap DC6-48-60-18-8C-EV
	235.0	4	Ericsson RRUS E2 B29
236.0		2	Ericsson RRUS 4415 B30
		3	Ericsson RRUS 4449 B5, B12
		2	Ericsson RRUS 4426 B66
		2	Ericsson RRUS 32 B30 (53 lbs)
		2	Ericsson RRUS 32 B2
		2	Ericsson RRUS 8843 B2, B66A
		3	Ericsson RRUS 4478 B14
	233.0	3	Ericsson AIR 6419 N77G

Structural Component	Controlling Usage	Pass/Fail
Horizontals	52%	Pass
Verticals	15%	Pass
Diagonals	18%	Pass
Tie-Backs	10%	Pass
Mount Pipes	32%	Pass
Tower Leg Check	63%	Pass



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Eng. Number 13683396_C9_10 July 13, 2022

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

- . Information supplied by the client regarding equipment, mounts and feed line loading
- Information from drawings, design and analysis documents, and field notes in the poss 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

American Tower assumes that all structures were constructed in accordance with the drawings and

 $All \ connections \ are \ to \ be \ verified \ for \ condition \ and \ tightness \ by \ the \ installation \ contractor \ preceding$ any changes to the appurtenance mounting system and/or equipment attached to it. Unless explicitly agreed by both the client and A.T. Engineering Service, PLLC, all services will be

Installation of all equipment and steel should be confirmed not to cause tower conflicts nor impede the tower climbing pegs.

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

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A.T. ENGINEERING SERVICE, PLLC 3500 REGENCY PARKWAY SUITE 100 **CARY, NC 27518** PHONE: (919) 468-0112 COA: PEC.0001553

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ATC SITE NUMBER:

88018

ATC SITE NAME:

STAMFORD (KATOONA)

CONNECTICUT

SITE ADDRESS: 168 CATOONA LANE STAMFORD, CT 06902



DRAWN BY:	KPJ
APPROVED BY:	MCC
DATE DRAWN:	07/14/22
ATC JOB NO:	13683396_C9_10

SUPPLEMENTAL

SHEET NUMBER:

REVISION

R-902



Site Number:	88018
Project Number:	13683396_C9_10
Carrier:	AT&T Mobility
Mount Elevation:	236 ft
Date:	7/13/2022

Mount Analysis Force Calculations

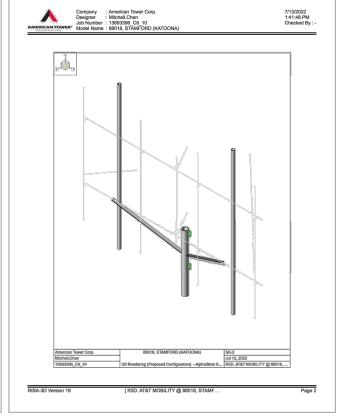
	. "	ioune /	шагу	sis Force calculations			
Wind & Ice Load Cale	ulation	ıs		Seismic Load Cald	ulations		
Velocity Pressure Coefficient	K ₂	1.26		Short Period DSRAP	S _{DS}	0.212	Г
Topographic Factor	Kzt	1.00		1 Second DSRAP	S _{D1}	0.094	
Rooftop Wind Speed-up Factor	K _s	1.00		Importance Factor	1	1.0	
Shielding Factor	K _a	0.90		Response Modification Coefficient	R	2.0	
Ground Elevation Factor	K _e	1.00		Seismic Response Coefficient	Cs	0.106	
Wind Direction Probability Factor	Kd	0.95		Amplification Factor	A	1.0	
Basic Wind Speed	V	117	mph	Total Weight	w	1322.4	lb
Velocity Pressure	q_2	42.0	psf	Total Shear Force	Vs	140.2	lb
Height Escalation Factor	Kiz	1.22		Horizontal Seismic Load	Eh	140.2	lb
Thickness of Radial Glaze Ice	Tiz	1.22	in	Vertical Seismic Load	Ev	56.1	lb

Anter	na Calculat	ions (Eleva	tions per A	pplication/	RFDS)*			
Equipment	Height	Width	Depth	Weight	EPA _N	EPA _T	EPA _{Ni}	EPA _{Ti}
Model #	in	in	in	lbs	sqft	sqft	sqft	sqft
Ericsson AIR 6449 n77D	30.4	15.9	8.1	81.6	4.03	1.34	5.02	1.88
CCI BSA-M65R-BUU-H6 (101 lbs)	72.0	28.5	9.7	101.0	N/A	N/A	N/A	N/A
CCI DMP65R-BU6DA	71.2	20.7	7.7	79.4	12.71	2.28	14.69	3.11
Quintel QD6616-7	72.0	22.0	9.6	130.0	13.58	2.88	15.59	3.73
Powerwave Aligon TT19-08BP111-001	9.9	6.7	5.4	16.0	N/A	N/A	N/A	N/A
Raycap DC9-48-60-24-8C-EV	31.4	18.3	10.2	16.0	N/A	N/A	N/A	N/A
Raycap DC6-48-60-18-8C-EV	31.4	18.3	10.2	16.0	N/A	N/A	N/A	N/A
Ericsson RRUS E2 B29	20.4	18.5	7.5	60.0	3.15	1.29	3.98	1.91
Ericsson RRUS 4415 B30	16.5	13.4	5.9	46.0	1.84	0.82	2.50	1.33
Ericsson RRUS 4449 B5, B12	17.9	13.2	9.4	71.0	1.97	1.40	2.65	2.01
Ericsson RRUS 4426 B66	15.0	13.2	5.8	48.4	1.65	0.73	2.27	1.20
Ericsson RRUS 32 B30 (53 lbs)	27.2	12.1	7.0	53.0	N/A	N/A	N/A	N/A
Ericsson RRUS 32 B2	27.2	12.1	7.0	53.0	2.74	1.67	3.59	2.45
Ericsson RRUS 8843 B2, B66A	14.9	13.2	10.9	72.0	N/A	N/A	N/A	N/A
Ericsson RRUS 4478 B14	16.5	13.4	7.7	59.9	1.84	1.06	2.50	1.60
Ericsson AIR 6419 N77G	15.7	30.0	6.7	70.0	3.93	0.38	4.90	0.59

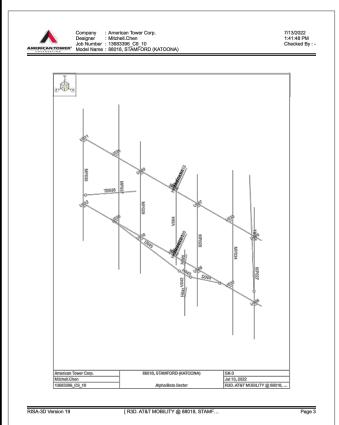
Equipment with EPA values N/A were not considered in the mount analy

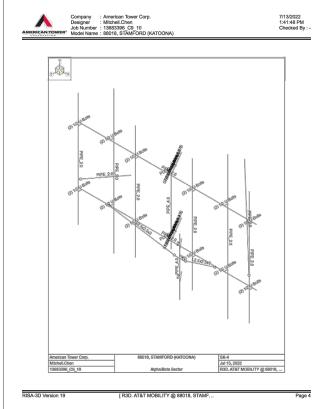


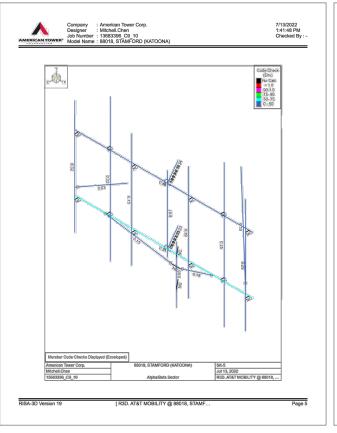


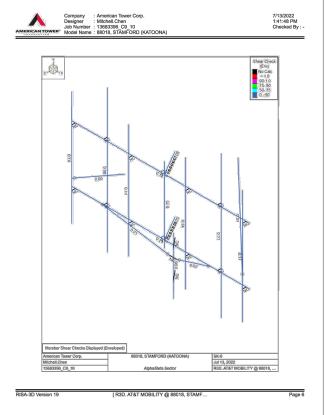


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ATC SITE NUMBER:

88018

ATC SITE NAME:

STAMFORD (KATOONA)

CONNECTICUT

SITE ADDRESS: 168 CATOONA LANE STAMFORD, CT 06902



DRAWN BY:	KPJ
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DATE DRAWN:	07/14/22
ATC JOB NO:	13683396_C9_10

SUPPLEMENTAL

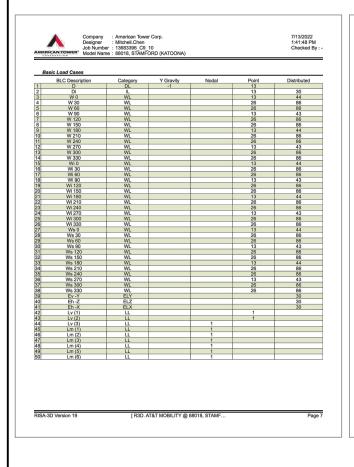
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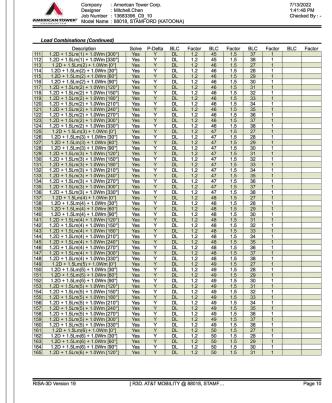
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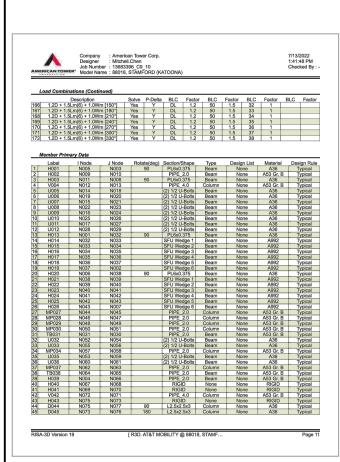
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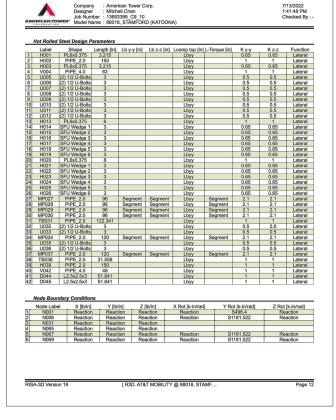


	oad Combinations										
1	Description	Solve	P-Delta V	BLC	Factor 1.4	BLC	Factor	BLC	Factor	BLC	Factor
2	1.4D 1.2D + 1.0W [0°]	Yes Yes	Y	DL	1.4	3	1				
3	1.2D + 1.0W [30°]	Yes	Y	DL	1.2	4	1				
4	1.2D + 1.0W [60°]	Yes	Υ	DL	1.2	5	1				
6	1.2D + 1.0W [90°] 1.2D + 1.0W [120°]	Yes	Y	DL	1.2	7	1				
7	1.2D + 1.0W [120]	Yes	Y	DL	1.2	8	1				
8	1.2D + 1.0W [180°]	Yes	Y	DL	1.2	9	1				
9	1.2D + 1.0W [210°]	Yes	Y	DL	1.2	10	1				
10	1.2D + 1.0W [240°] 1.2D + 1.0W [270°]	Yes Yes	Y	DL DL	1.2	11	1				
12	1.2D + 1.0W [300°]	Yes	Y	DL	1.2	13	1				
13	1.2D + 1.0W [330°]	Yes	Υ	DL	1.2	14	1				
14	0.9D + 1.0W [0°] 0.9D + 1.0W [30°]	Yes	Y	DL DL	0.9	3	1				
16	0.9D + 1.0W [30°]	Yes Yes	Y	DL	0.9	5	1				
17	0.9D + 1.0W [90°]	Yes	Y	DL	0.9	6	1				
18	0.9D + 1.0W [120°]	Yes	Y	DL	0.9	7	1				
19	0.9D + 1.0W [150°] 0.9D + 1.0W [180°]	Yes	Y	DL DL	0.9	8	1				
21	0.9D + 1.0W [210°]	Yes	Y	DL	0.9	10	1				
22	0.9D + 1.0W [240°]	Yes	Y	DL	0.9	11	1				
23	0.9D + 1.0W [270°] 0.9D + 1.0W [300°]	Yes	Y	DL	0.9	12	1				
25	0.9D + 1.0W [300*]	Yes	Y	DL	0.9	14	1				
26	1.2D + 1.0Di + 1.0Wi [0"] + 1.0Ti	Yes	Y	DL	1.2	IL	1	15	1		
27	1.2D + 1.0Di + 1.0Wi [30°] + 1.0Ti	Yes	Y	DL	1.2	IL	1	16	1		
28	1.2D + 1.0Di + 1.0Wi [60°] + 1.0Ti 1.2D + 1.0Di + 1.0Wi [90°] + 1.0Ti	Yes Yes	Y	DL DL	1.2	IL IL	1	18	1		
30	1.2D + 1.0Di + 1.0Wi [120°] + 1.0T	i Yes	Y	DL	1.2	IL	1	19	1		
31	1.2D + 1.0Di + 1.0Wi [150°] + 1.0T		Y	DL	1.2	IL	1	20	1		
32	1.2D + 1.0Di + 1.0Wi [180°] + 1.0T 1.2D + 1.0Di + 1.0Wi [210°] + 1.0T		Y	DL DL	1.2	IL IL	1	21	1		
34	1.2D + 1.0Di + 1.0Wi [240°] + 1.0T		Y	DL	1.2	IL	1	23	1		
35	1.2D + 1.0Di + 1.0Wi [270°] + 1.0T		Y	DL	1.2	IL	1	24	1		
36 37	1.2D + 1.0Di + 1.0Wi [300°] + 1.0T 1.2D + 1.0Di + 1.0Wi [330°] + 1.0T		Y	DL DL	1.2	IL IL	1	25 26	1		
38	1.2D + 1.0Ev + 1.0Eh [0°]	Yes	Y	DL	1.2	ELY	1	ELZ	1	ELX	0.001
39	1.2D + 1.0Ev + 1.0Eh [30°]	Yes	Y	DL	1.2	ELY	1	ELZ	0.866	ELX	0.5
40	1.2D + 1.0Ev + 1.0Eh [60°]	Yes	Y	DL	1.2	ELY	1	ELZ	0.5	ELX	0.866
41	1.2D + 1.0Ev + 1.0Eh [90°] 1.2D + 1.0Ev + 1.0Eh [120°]	Yes	Y	DL	1.2	ELY	1	ELZ	-0.5	ELX	0.866
43	1.2D + 1.0Ev + 1.0Eh [150°]	Yes	Y	DL	1.2	ELY	1	ELZ	-0.866	ELX	0.5
44	1.2D + 1.0Ev + 1.0Eh [180°]	Yes	Y	DL	1.2	ELY	1	ELZ	-1	ELX	0.001
45	1.2D + 1.0Ev + 1.0Eh [210°] 1.2D + 1.0Ev + 1.0Eh [240°]	Yes Yes	Y	DL	1.2	ELY	1	ELZ	-0.866 -0.5	ELX	-0.5
47	1.2D + 1.0Ev + 1.0Eh [240"]	Yes	Y	DL	1.2	ELY	1	ELZ	0.001	ELX	-0.860
48	1.2D + 1.0Ev + 1.0Eh [300°]	Yes	Y	DL	1.2	ELY	1	ELZ	0.5	ELX	-0.866
49	1.2D + 1.0Ev + 1.0Eh [330°]	Yes	Y	DL	1.2	ELY	1	ELZ	0.866	ELX	-0.5
50 51	0.9D + 1.0Ev + 1.0Eh [0°] 0.9D + 1.0Ev + 1.0Eh [30°]	Yes Yes	Y	DL DL	0.9	ELY	1	ELZ	0.866	ELX	0.001
52	0.9D + 1.0Ev + 1.0Eh [60°]	Yes	Y	DL	0.9	ELY	1	ELZ	0.5	ELX	0.866
53	0.9D + 1.0Ev + 1.0Eh [90°]	Yes	Υ	DL	0.9	ELY	1	ELZ	0.001	ELX	1
54 55	0.9D + 1.0Ev + 1.0Eh [120°] 0.9D + 1.0Ev + 1.0Eh [150°]	Yes	Y	DL DL	0.9	ELY	1	ELZ	-0.5 -0.866	ELX	0.866
30	0.80 + 1.024 + 1.0211[130]	165		DL	0.5			LUZ	-0.000	LLX	0.5

_	Load Combinations (Continued)										
	Description	Solve	P-Delta	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor
56 57	0.9D + 1.0Ev + 1.0Eh [180°] 0.9D + 1.0Ev + 1.0Eh [210°]	Yes Yes	Y	DL.	0.9	ELY	1	ELZ	-1 -0.866	ELX	0.001 -0.5
58	0.9D + 1.0Ev + 1.0Eh [240°]	Yes	Y	DL	0.9	ELY	1	ELZ	-0.5	ELX	-0.866
59	0.9D + 1.0Ev + 1.0Eh [270°]	Yes	Y	DL	0.9	ELY	1	ELZ	0.001	ELX	-1
60	0.9D + 1.0Ev + 1.0Eh [300°]	Yes	Υ	DL	0.9	ELY	1	ELZ	0.5	ELX	-0.866
61	0.9D + 1.0Ev + 1.0Eh [330°] 1.2D + 1.0W [0°]*TF	Yes Yes	Y	DL DL	0.9	ELY 3	0.845	ELZ	0.866	ELX	-0.5
63	1.2D + 1.0W [30*]*TF	Yes	Y	DL	1.2	4	0.845				
64	1.2D + 1.0W [60°]*TF	Yes	Y	DL	1.2	5	0.845				
65	1.2D + 1.0W [90°]*TF	Yes	Y	DL	1.2	7	0.845				
66 67	1.2D + 1.0W [120°]*TF 1.2D + 1.0W [150°]*TF	Yes Yes	Y	DL	1.2	8	0.845				
68	1.2D + 1.0W [180°]*TF	Yes	Y	DL	1.2	9	0.845				
69	1.2D + 1.0W [210°]*TF	Yes	Υ	DL	1.2	10	0.845				
70 71	1.2D + 1.0W [240°]*TF 1.2D + 1.0W [270°]*TF	Yes	Y	DL	1.2	11	0.845				_
72	1.2D + 1.0W [270] TF	Yes	Y	DL	1.2	13	0.845				
73	1.2D + 1.0W [330°]*TF	Yes	Y	DL	1.2	14	0.845				
74	0.9D + 1.0W [0°]*TF	Yes	Υ	DL	0.9	3	0.845				
75 76	0.9D + 1.0W [30°]*TF 0.9D + 1.0W [60°]*TF	Yes	Y	DL	0.9	4 5	0.845				
77	0.9D + 1.0W [90°]*TF	Yes	Y	DL	0.9	6	0.845				
78	0.9D + 1.0W [120°]*TF	Yes	Y	DL	0.9	7	0.845				
79	0.9D + 1.0W [150°]*TF	Yes	Y	DL	0.9	8	0.845				_
80	0.9D + 1.0W [180°]*TF 0.9D + 1.0W [210°]*TF	Yes	Y	DL	0.9	10	0.845				
82	0.9D + 1.0W [240°]*TF	Yes	Ý	DL	0.9	11	0.845				
83	0.9D + 1.0W [270°]*TF	Yes	Y	DL	0.9	12	0.845				
84 85	0.9D + 1.0W [300°]*TF 0.9D + 1.0W [330°]*TF	Yes Yes	Y	DL DL	0.9	13	0.845				_
86	1.2D + 1.0Di + 1.0Wi [0°]*TF + 1.0Ti	Yes	Y	DI	1.2	IL.	1	15	0.845		
87	1.2D + 1.0Di + 1.0Wi [30°]*TF + 1.0Ti	Yes	Y	DL	1.2	IL	1	16	0.845		
	1.2D + 1.0Di + 1.0Wi [60°]*TF + 1.0Ti	Yes	Y	DL	1.2	IL	1	17	0.845		
89	1.2D + 1.0Di + 1.0Wi [90°]*TF + 1.0Ti 1.2D + 1.0Di + 1.0Wi [120°]*TF + 1.0Ti	Yes	Y	DL DL	1.2	IL IL	1	18 19	0.845		_
	1.2D + 1.0Di + 1.0Wi [150°]*TF + 1.0Ti	Yes	Y	DL	1.2	IL	1	20	0.845		
	1.2D + 1.0Di + 1.0Wi [180°]*TF + 1.0Ti	Yes	Υ	DL	1.2	IL	1	21	0.845		
	1.2D + 1.0Di + 1.0Wi [210°]*TF + 1.0Ti 1.2D + 1.0Di + 1.0Wi [240°]*TF + 1.0Ti	Yes	Y	DL	1.2	IL IL	1	22	0.845		_
	1.2D + 1.0Di + 1.0Wi [240]*TF + 1.0Ti	Yes	Y	DL	1.2	IL	1	24	0.845		
96	1.2D + 1.0Di + 1.0Wi [300°]*TF + 1.0Ti	Yes	Y	DL	1.2	IL	1	25	0.845		
	1.2D + 1.0Di + 1.0Wi [330°]*TF + 1.0Ti	Yes	Y	DL	1.2	IL.	1	26	0.845		
98	1.2D + 1.5Lv(1) 1.2D + 1.5Lv(2)	Yes	Y	DL	1.2	42	1.5				_
100		Yes	Ý	DL	1.2	44	1.5				
101	1.2D + 1.5Lm(1) + 1.0Wm [0"]	Yes	Y	DL	1.2	45	1.5	27	1		
102		Yes	Y	DL	1.2	45 45	1.5	28 29	1		_
103		Yes	Y	DL	1.2	45	1.5	30	1		
105	1.2D + 1.5Lm(1) + 1.0Wm [120°]	Yes	Y	DL	1.2	45	1.5	31	1		
106		Yes	Y	DL	1.2	45	1.5	32	1		
107	1.2D + 1.5Lm(1) + 1.0Wm [180°] 1.2D + 1.5Lm(1) + 1.0Wm [210°]	Yes	Y	DL	1.2	45 45	1.5	33	1 1		
109		Yes	Y	DL	1.2	45	1.5	35	1		
110		Yes	Υ	DL	1.2	45	1.5	36	1		







AS BUILT Centerline Communications Tristen Spear 2/8/23 8:47 AM



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SITE ADDRESS: 168 CATOONA LANE STAMFORD, CT 06902



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