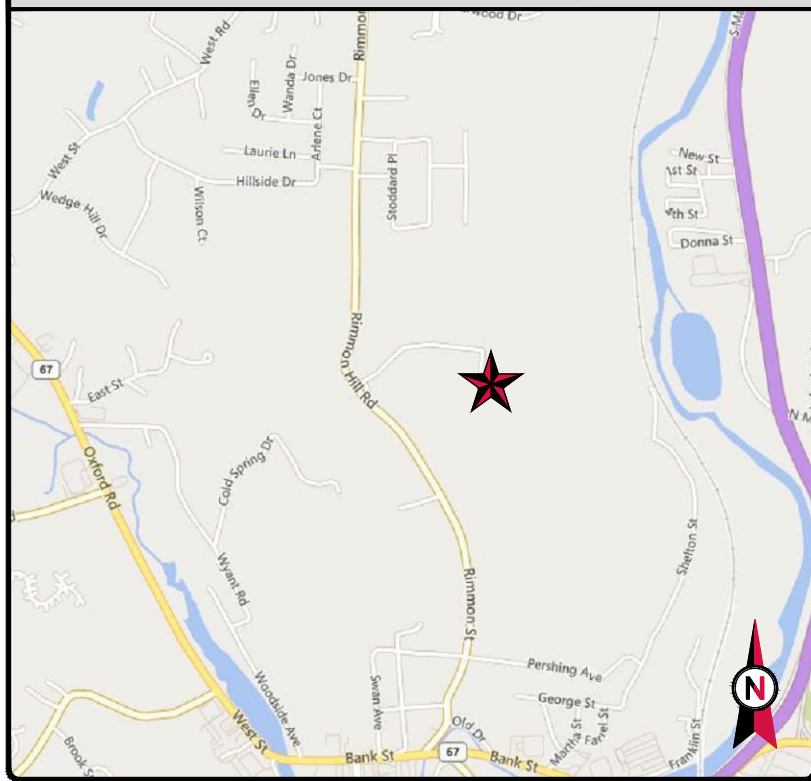


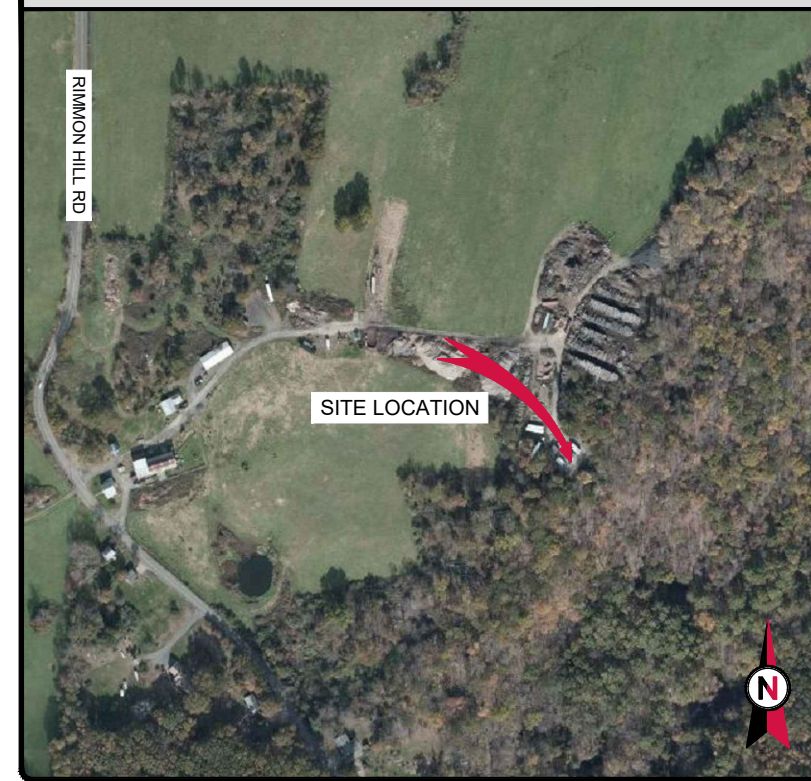
VICINITY MAP



AMERICAN TOWER®

SITE NAME: BEACON FALLS
SITE NUMBER: 302524
ATC PROJECT NUMBER: 13753210_C9_05
SITE ADDRESS: 664 RIMMON HILL ROAD
 SEYMOUR, CT 06483-2722

LOCATION MAP



319 CHAPANOKE RD, SUITE 118
 RALEIGH, NC 27603
 PH: (405)348-5460 FAX: (405)341-4625
 TELAMON TOWER ENGINEERING PLLC PROJECT ID:
 41124-ATC MA-302524-13753210

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REV.	DESCRIPTION	DRAWN BY	DATE
A	PRELIMINARY	RM	04/11/2022
0	FOR CONSTRUCTION	RM	04/12/2022

ATC SITE NUMBER:
 302524
 ATC SITE NAME:
 BEACON FALLS
 CONNECTICUT
 SITE ADDRESS:
 664 RIMMON HILL ROAD
 SEYMOUR, CT 06483-2722

**MOUNT REINFORCEMENT DRAWINGS
 PREPARED FOR AT&T MOBILITY**

PROJECT TEAM

TOWER OWNER:
 AMERICAN TOWER
 10 PRESIDENTIAL WAY
 WOBURN, MA 1801

ENGINEERED BY:
 TELAMON TOWER ENGINEERING PLLC.
 319 CHAPANOKE ROAD, SUITE 118
 RALEIGH, NC 27603

CARRIER INFORMATION:
 CARRIER: AT&T MOBILITY
 CARRIER SITE NAME: MRCTB056179
 CARRIER SITE NUMBER: MRCTB056179
 CARRIER SITE ID: 10035091

811 LOGO



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 811 OR 1-800-922-4455**

PROJECT LOCATION (GEO COORDINATES)

- 1. LATITUDE: 41.40719444°
- 2. LONGITUDE: -73.0793°

PROJECT DESCRIPTION

THE MODIFICATIONS PRESENTED ON THESE DRAWINGS ARE BASED ON THE RECOMMENDATIONS OUTLINED IN THE STRUCTURAL ANALYSIS COMPLETED UNDER THE PROJECT NUMBER 13753210_C8_04 DATED MARCH 10, 2022. SATISFACTORY COMPLETION OF THE WORK INDICATED ON THESE DRAWINGS WILL RESULT IN THE STRUCTURE MEETING THE REQUIREMENTS OF THE SPECIFICATIONS UNDER WHICH THE STRUCTURAL WAS COMPLETED.

PROJECT NOTE

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 EXISTING WIRELESS TOWER THAT INVOLVES THE COLLOCATION, REMOVAL, AND/OR REPLACEMENT OF TRANSMISSION EQUIPMENT THAT IS NOT A SUBSTANTIAL CHANGE UNDER CFR § 1.6100 (B)(7).

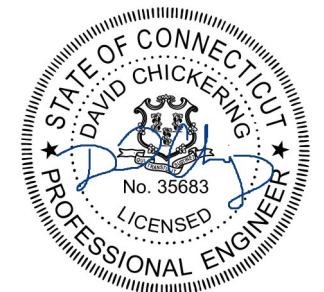
COMPLIANCE CODE

ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNMENT AUTHORITIES. NOTHING IN THESE PLANS ARE TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES:

- 1. TIA: STRUCTURAL STANDARDS (222-H EDITION)

DRAWING INDEX

SHEET	SHEET TITLE	REV
G-002	IBC GENERAL NOTES & MODIFICATION INSPECTION	0
S-101	MODIFICATION PROFILE	0
S-102	MODIFICATION REINFORCEMENT LIST	0
S-103	SAFETY CLIMB LAYOUT	0
S-501	MODIFICATION DETAILS	0
R-901	SUPPLEMENTAL	0
R-902	SUPPLEMENTAL	0
R-903	SUPPLEMENTAL	0
R-904	SUPPLEMENTAL	0
R-905	SUPPLEMENTAL	0



David Chickering
 Telamon Tower Engineering PLLC
 PE # 35683 Exp. 01/31/2023

04/12/2022

DRAWN BY:	RM
APPROVED BY:	DC
DATE DRAWN:	04/12/2022
ATC JOB NO:	13753210_C9_05

SHEET TITLE
 COVER PAGE

SHEET NUMBER G-001	REVISION 0
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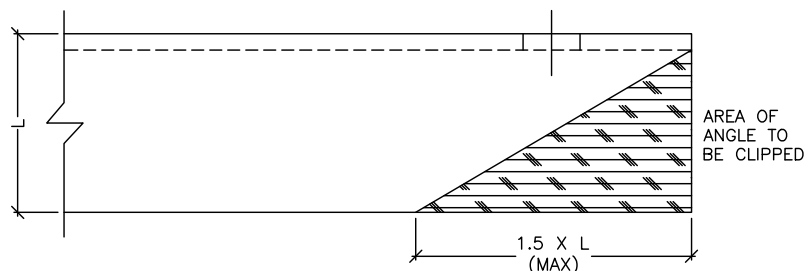
GENERAL

- 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.
- 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 FABRICATION.
- 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.
- 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.
- 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.
- FIELD CUT EDGES, EXCEPT DRILLED HOLES, SHALL BE GROUND SMOOTH.
- ALL FIELD CUT SURFACES, FIELD DRILLED HOLES AND 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-9 MASTIC OR EQUIVALENT. REFER TO THE MANUFACTURER SPECIFICATIONS FOR SURFACE PREPARATION AND APPLICATION. APPLICATION OF POLYGUARD 400 WRAP IS NOT ESSENTIAL.
- CONTRACTOR SHALL PERFORM WORK ON ONLY ONE (1) TOWER FACE AND REPLACE/REINFORCE ONE (1) BOLT/MEMBER AT A TIME.
- ALL FIELD DRILLED HOLES TO BE USED FOR FIELD BOLTING INSTALLATION SHALL BE STANDARD HOLES, AS DEFINED BY AISC, UNLESS NOTED OTHERWISE.

MAXIMUM ALLOWABLE ANGLE CLIP



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 NEC.
- INSPECTION SHALL BE PERFORMED BY AN AWS CERTIFIED WELD INSPECTOR.
- 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, UNLESS OTHERWISE NOTED.
- 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

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

BOLT TIGHTENING PROCEDURE (CONTINUED)

- 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 PRE-TENSIONING
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.

MODIFICATION INSPECTION

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

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



319 CHAPANOKE RD, SUITE 118
RALEIGH, NC 27603
PH: (405)348-5460 FAX: (405)341-4625
TELAMON TOWER ENGINEERING PLLC PROJECT ID:
41124-ATC MA-302524-13753210

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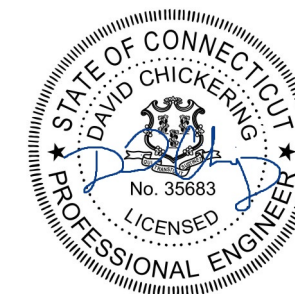
302524

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CONNECTICUT

SITE ADDRESS:

664 RIMMON HILL ROAD
SEYMOUR, CT 06483-2722



David Chickering
Telamon Tower Engineering PLLC
PE # 35683 Exp. 01/31/2023

04/12/2022

DRAWN BY:	RM
APPROVED BY:	DC
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SHEET TITLE

IBC GENERAL NOTES &
MODIFICATION INSPECTION

SHEET NUMBER

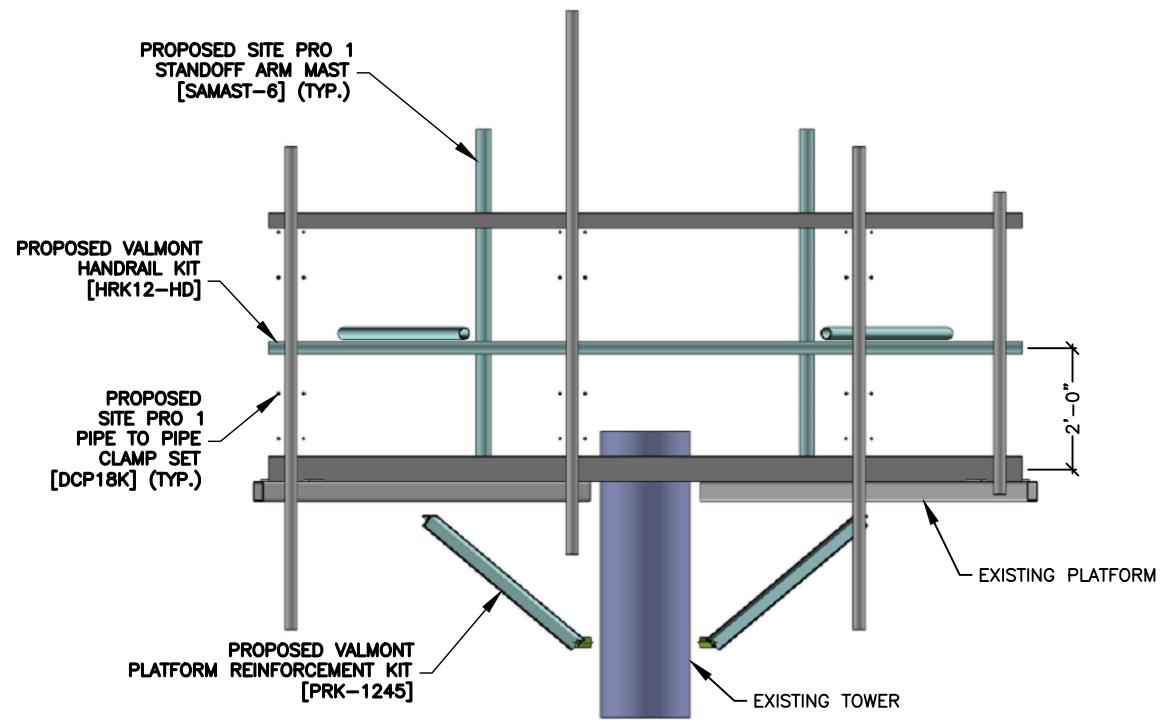
G-002

REVISION

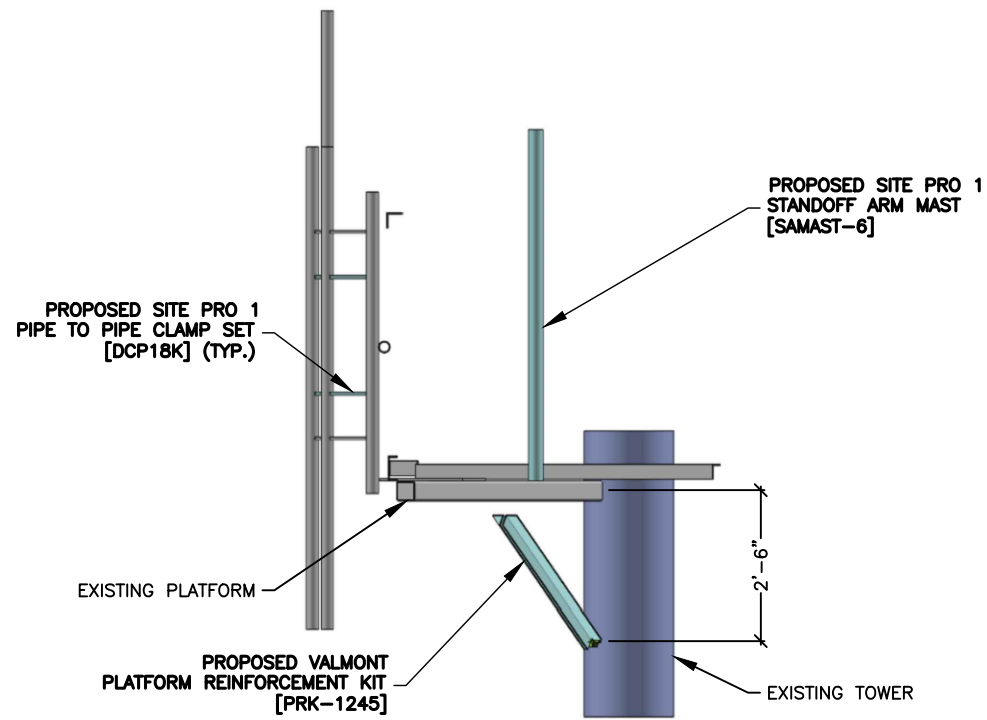
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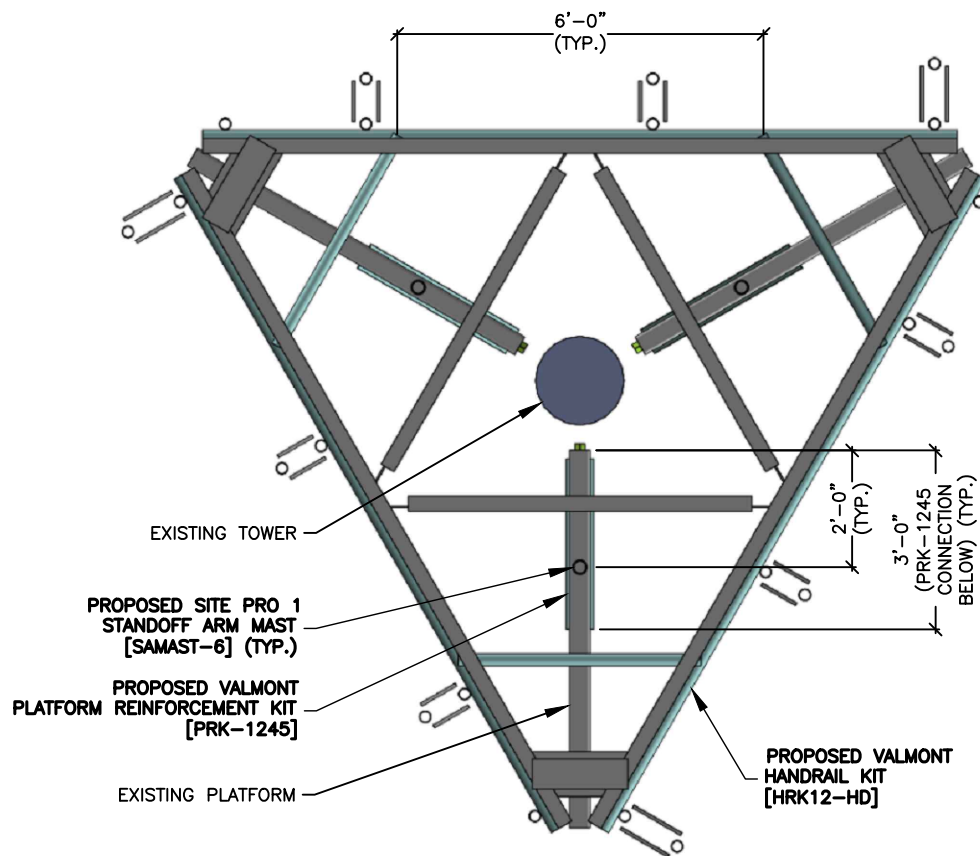
SEE SHEET S-501 FOR PART DETAILS.



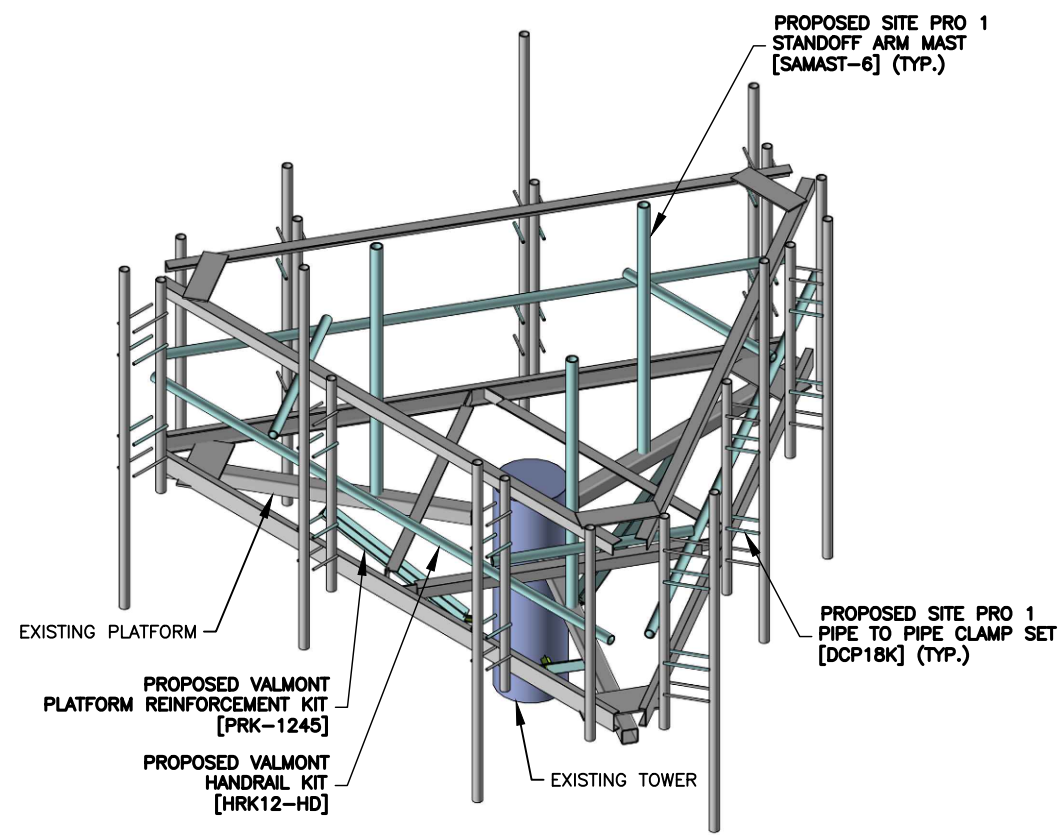
1 TYPICAL MOUNT MODIFICATION - FRONT VIEW
SCALE: N.T.S.



2 TYPICAL MOUNT MODIFICATION - SIDE VIEW
SCALE: N.T.S.



3 TYPICAL MOUNT MODIFICATION - TOP VIEW
SCALE: N.T.S.



4 TYPICAL MOUNT MODIFICATION - ISOMETRIC VIEW
SCALE: N.T.S.



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David Chickering
Telamon Tower Engineering PLLC
PE # 35683 Exp. 01/31/2023

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ATC JOB NO:	13753210_C9_05

SHEET TITLE
MODIFICATION PROFILE

SHEET NUMBER
S-101

REVISION
0

C:\USERS\RADHA.MANDHAR\DROPBOX (TELAMON)\ITI LLP SHARE FOLDER\PROJECTS\41124\302524-13753210\02 - MOD\CAD\41124-302524-13753210.DWG - CLS PROJECT ID: 41124-ATC MA-302524-13753210



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SHEET TITLE

MODIFICATION
 REINFORCEMENT MATERIALS
 LIST

SHEET NUMBER

S-102

REVISION

0

REINFORCEMENT MATERIALS LIST (ALL SECTORS)

QTY REQ'D.	MANUFACTURER	PART #	DESCRIPTION	LENGTH	PART WEIGHT (LB)	WEIGHT (LB)	NOTES
9	SITE PRO 1	DCP18K	PIPE TO PIPE CLAMP SET 1-1/2" TO 5" PIPE 1/2" THICK CLAMP	----	29.1	262	----
1	VALMONT	HRK12-HD	HEAVY DUTY HANDRAIL KIT FOR 12' PLATFORMS WITH 2-3/8" OR 2-7/8" ANTENNA PIPES	----	406.6	407	ANT.51651. DO NOT INSTALL AHCP KIT.
1	VALMONT	PRK-1245	PLATFORM REINFORCEMENT ON A 12" TO 45" POLE 4'-6" ANGLE	----	466.2	466	ANT.16462 . FIELD CUT PROPOSED ANGLES AS REQUIRED.
3	SITE PRO 1	SAMAST-6	6' STANDOFF ARM MAST	----	28.1	84	----
TOTAL WEIGHT:						1219	

MATERIALS LIST NOTE

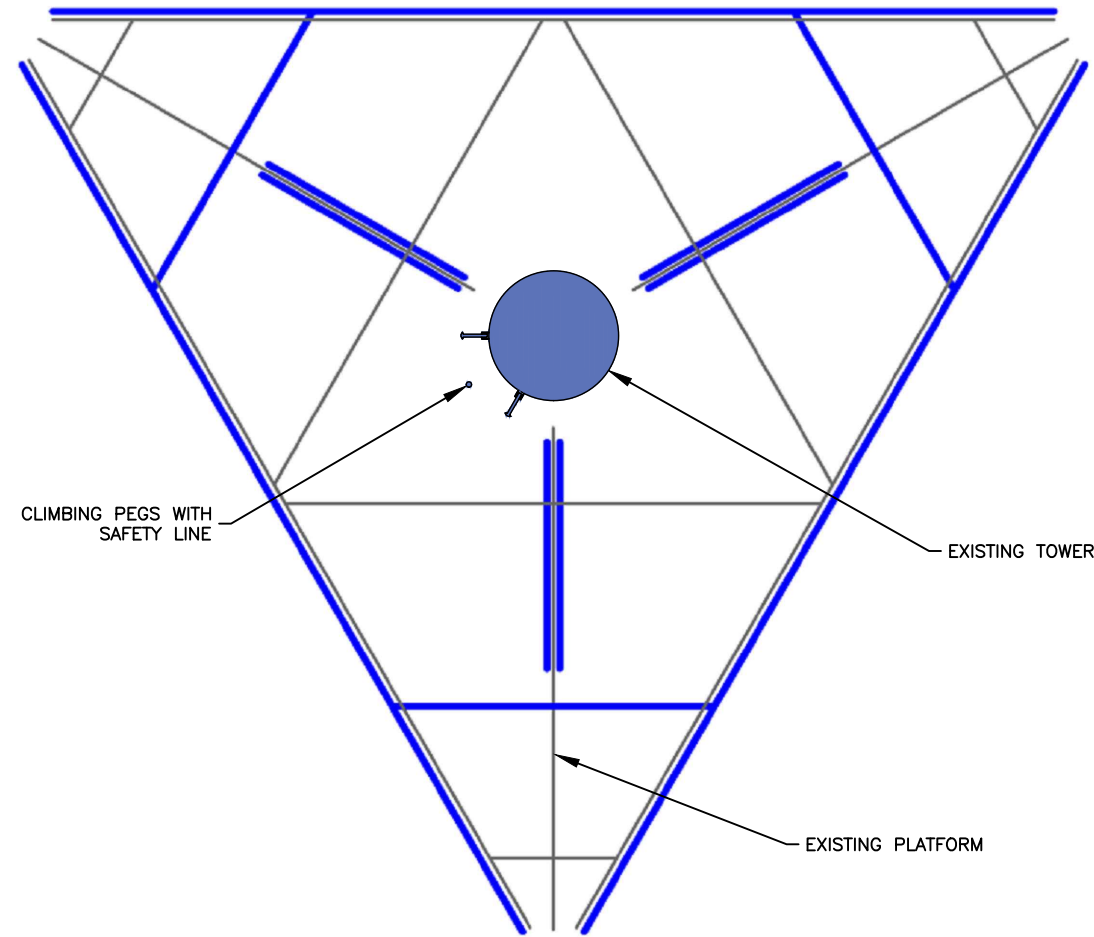
- IN THE EVENT A PROPOSED MODIFICATION PART LISTED IN THE DRAWINGS IS NOT AVAILABLE, AN APPROVED EQUIVALENT CAN BE SUBSTITUTED. FOR APPROVAL OF EQUIVALENT PARTS OR QUESTIONS PLEASE CONTACT AMERICAN TOWER PMI INBOX AT PMI@AMERICANTOWER.COM.
- AT&T CONMAT DOES NOT HAVE PARTS WHICH CONNECT PIPE TO STAND-OFF OVER GRATING AND PIPE TO PIPE THREADED ROD KITS. HENCE PROPOSING MODIFICATION PARTS NOT LISTED IN CONMAT LIST.



319 CHAPANOKE RD, SUITE 118
 RALEIGH, NC 27603
 PH: (405)348-5460 FAX: (405)341-4625
 TELAMON TOWER ENGINEERING PLLC PROJECT ID:
 41124-ATC MA-302524-13753210

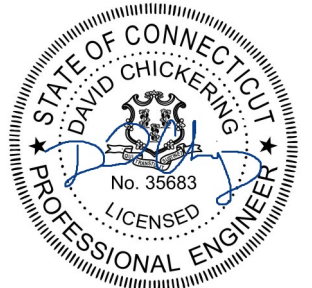
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REV.	DESCRIPTION	DRAWN BY	DATE
A	PRELIMINARY	RM	04/11/2022
0	FOR CONSTRUCTION	RM	04/12/2022



1 SAFETY CLIMB LOCATION
 SCALE: N.T.S.

ATC SITE NUMBER:
 302524
 ATC SITE NAME:
 BEACON FALLS
 CONNECTICUT
 SITE ADDRESS:
 664 RIMMON HILL ROAD
 SEYMOUR, CT 06483-2722



David Chickering
 Telamon Tower Engineering PLLC
 PE # 35683 Exp. 01/31/2023

04/12/2022

DRAWN BY:	RM
APPROVED BY:	DC
DATE DRAWN:	04/12/2022
ATC JOB NO:	13753210_C9_05

SHEET TITLE

SAFETY CLIMB LAYOUT

SHEET NUMBER

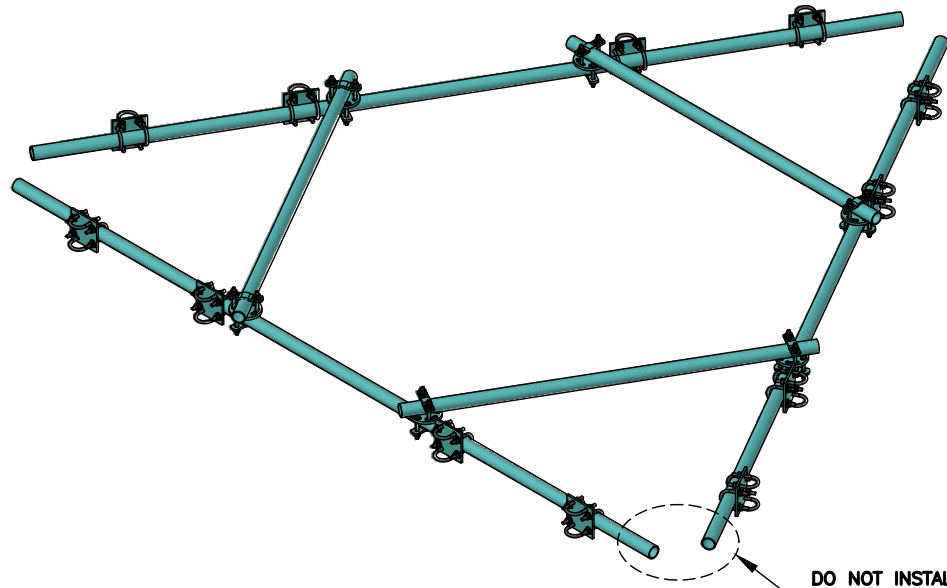
S-103

REVISION

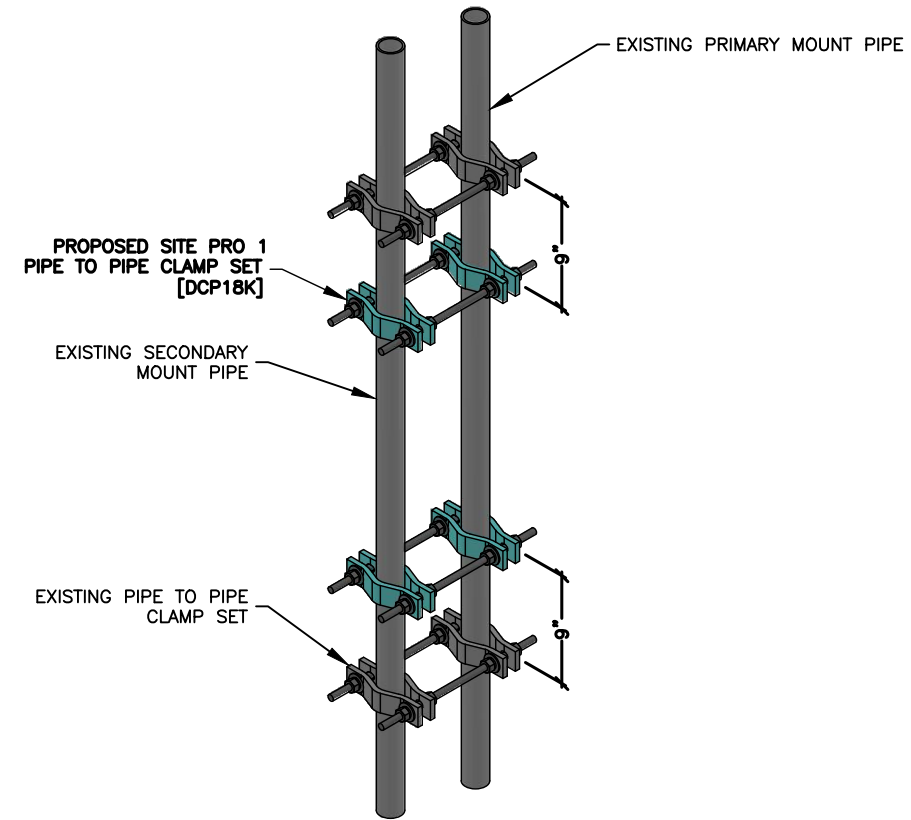
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CONSTRUCTION NOTE

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.



1 SITE PRO 1 HANDRAIL KIT [HRK12-HD]
SCALE: N.T.S.



2 SITE PRO 1 PIPE TO PIPE CLAMP SET [DCP18K]
SCALE: N.T.S.



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CONNECTICUT

SITE ADDRESS:

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SEYMOUR, CT 06483-2722



David Chickering
Telamon Tower Engineering PLLC
PE # 35683 Exp. 01/31/2023

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APPROVED BY:	DC
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ATC JOB NO:	13753210_C9_05

SHEET TITLE

MODIFICATION DETAILS

SHEET NUMBER

S-501

REVISION

0

MOD SUMMARY

Project & Site Information		
CLS Project ID	41124-13753210_C9_05-02-MOD	
Client Information	Carrier Name	AT&T Mobility
	Client Name	American Tower
	Site #	302524
	Site Name	Beacon Falls
	Application #	13753210_C9_05
Site Location	Address	664 Rimmon Hill Road, Seymour, CT 06483-2722
	County	New Haven
	GPS	41.40719444, -73.0793
	Elevation AMSL (ft)	418.85

Mount & Supporting Structure		
Mount Configuration	Mount Type	Platform w/ Support Rails
Nominal AGL Elevations (ft)	Mount Elevation	163
	Default Antenna Rad	164
Supporting Structure	Structure Type	Monopole
	Height (TOS) (ft)	173

Wind & Ice Loading	
TIA Standard	TIA-222-H
Building Code	-
Basic Wind Speed, V (bare)	118 mph
Basic Wind Speed, V (ice)	50 mph
Design Ice Thickness, t _i	1 in

MOD Summary	Cost Estimation
Install (1) proposed Support Rail Kit at each sector (1 total).	\$ 1,875
Install (1) proposed Support Rail Brace at each sector (3 total).	\$ 1,875
Install (1) proposed Under Platform Kicker Kit at each sector (1 total).	\$ 3,125
Install (1) proposed SAMAST Kit at each sector (3 total).	\$ 1,875
Install (3) proposed Threaded Rod Kits at each sector (9 total).	\$ 5,625
	\$ -
	\$ -
	\$ -
	\$ -
	\$ -
	\$ -
Post MOD Usage	\$ 16,375.00
66%	Cost + Mobilization

Replacement Summary	Cost Estimate
(1) Site Pro 1 RMQLP-4120-H10 (ANT.44987) (or equivalent)	\$27,500

SHEET TITLE
SUPPLEMENTAL

SHEET NUMBER R-901	REVISION 0
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This report was prepared for American Tower Corporation by
telamon
 Tower Engineering PLLC

Antenna Mount Analysis Report

ATC Site Name : Beacon Falls
ATC Asset Number : 302524
Engineering Number : 13753210_C9_05
Mount Elevation : 163 ft
Carrier : AT&T Mobility
Carrier Site Name : MRCTB056179
Carrier Site Number : MRCTB056179
Site Location : 664 Rimmon Hill Road
 Seymour, CT 06483-2722
 41.40719444, -73.0793
County : New Haven
Date : April 12, 2022
Max Usage : 66%
Result : Pass (Pending MODs)

Prepared By: Gunjan Donode
 Telamon Tower Engineering, PLLC
 Reviewed By: David Chickering, P.E.
 Telamon Tower Engineering, PLLC

Table of Contents

Introduction..... 2
 Supporting Documents..... 2
 Analysis..... 2
 Conclusion..... 2
 Antenna Loading..... 3
 Structure Usages..... 3
 Equipment Layout Plan View..... 4
 Equipment Layout Front Elevation View..... 5
 Standard Conditions..... 6
 Calculations..... Attached

Introduction

The proposed equipment is to be mounted to the existing Platform w/ Support Rails. This proposed mounting configuration was analyzed using RISA-3D, a commercially available finite element analysis software package. A selection of input and output from our analysis is attached to the end of this report.

Supporting Documents

Structural Data	Site Photos, dated February 27, 2019
Previous Analyses	Mount Analysis by Telamon for ATC, Eng. #13753210_C8_04, dated March 10, 2022 Tower SA by CLS for ATC, Eng. #13668747_C3_01, dated May 5, 2021
Loading Data	ATC Application, Project #13753210, dated March 9, 2022 AT&T RFDS, RFDS ID #4818843, Version: 2, dated February 10, 2022

Analysis

Codes	TIA-222-H
Basic Wind Speed	118 mph, V _W (3-Second Gust)
Basic Wind Speed w/ Ice	50 mph (3-Second Gust) w/ 1" Radial Ice (Escalating)
Exposure Category	B
Topographic Factor Procedure:	Method 2
Feature:	Flat
Crest Height (H):	0 ft
Crest Length (L):	0 ft
Risk Category	II
Maintenance Live Load	L _u : 500 lb
Spectral Response	S ₁ : 0.20; S ₂ : 0.05; Site Class: D

Conclusion

Based on the analysis, the antenna mount meets the requirements per the applicable codes listed above. The mounting configuration considered in this analysis will be capable of supporting the referenced loading pursuant to referenced standards once the referenced modifications are installed.

This analysis incorporates modifications per Telamon Tower Engineering, PLLC, dated April 12, 2022.

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.



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 302524
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 SITE ADDRESS:
 664 RIMMON HILL ROAD
 SEYMOUR, CT 06483-2722



David Chickering
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 PE # 35683 Exp. 01/31/2023

04/12/2022

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ATC JOB NO:	13753210_C9_05

SHEET TITLE
 SUPPLEMENTAL

SHEET NUMBER
R-902
 REVISION
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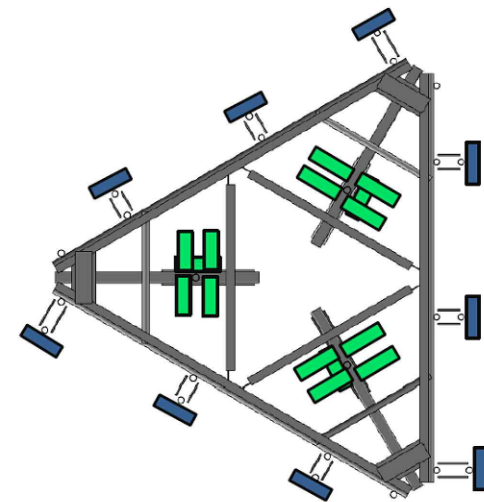
Antenna Loading

Elevation (ft)	Mount	Rad.	#	Antennas Name
166.0			3	Ericsson AIR 6449 B77D
			2	CCI DMP65R-BU8D
163.0	164.0		2	CCI TPA65R-BU8D
			1	CCI DMP65R-BU6DA
			1	CCI TPA-65R-BU6DA-K
			1	Raycap DC9-48-60-24-8C-EV
			3	Ericsson AIR 6419 B77G
			3	Ericsson RRUS 32 B2
			3	Ericsson RRUS 32 B30
			3	Ericsson RRUS 4449 B5, B12
			3	Ericsson RRUS 4478 B14
			3	Ericsson RRUS 4426 B66
		2	Raycap DC6-48-60-18-8F	

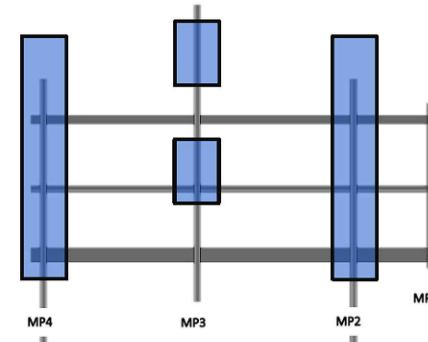
Structure Usages

Structural Component	Controlling Usage	Pass/Fail
Mount Pipes	66%	Pass
Threaded Rods	61%	Pass
Reinforcement Members	53%	Pass
Support Rail	52%	Pass
Tower to Mount Connection	47%	Pass
Stand-Off Horizontals	41%	Pass
Platform Base	36%	Pass

Equipment Layout Plan View



Equipment Layout Front Elevation View (Alpha)



Total #	Equipment	Mount Pipe Position
3	Ericsson AIR 6449 B77D	P3
3	Ericsson AIR 6419 B77G	P3
2	Cci Antennas DMP65R-BU8D	P4 (Alpha & Beta)
1	Cci Antennas DMP65R-BU6DA	P4 (Gamma)
2	Cci Antennas TPA65R-BU8D	P2 (Alpha & Beta)
1	Cci Antennas TPA-65R-BU6DA-K	P2 (Gamma)
1	Raycap DC9-48-60-24-8C-EV	Stand-off
2	Raycap DC6-48-60-18-8F	Stand-off
3	Ericsson RRUS 4426 B66	Stand-off
3	Ericsson RRUS 32 B30	Stand-off
3	Ericsson RRUS 4478 B14	Stand-off
3	Ericsson RRUS 4449 B5, B12	Stand-off
3	Ericsson RRUS 32 B2	Stand-off

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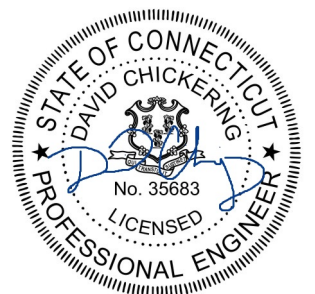
302524

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BEACON FALLS
CONNECTICUT

SITE ADDRESS:

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SEYMOUR, CT 06483-2722



David Chickering
Telamon Tower Engineering PLLC
PE # 35683 Exp. 01/31/2023

04/12/2022

DRAWN BY:	RM
APPROVED BY:	DC
DATE DRAWN:	04/12/2022
ATC JOB NO:	13753210_C9_05

SHEET TITLE

SUPPLEMENTAL

SHEET NUMBER

R-903

REVISION

0

Mount Analysis for American Tower April 12, 2022
302524 - Beacon Falls Telamon Tower Engineering, PLLC Project #41124-13753210_C9_05-02-MOD

Standard Conditions

This analysis is inclusive of the antenna supporting frames/mounts and all recorded connections that will support the equipment listed in this report. It considers only the theoretical capacity of structural components and it is not a condition assessment. The validity of the analysis may be dependent on the accuracy of structural information supplied by others. The client is responsible for verifying this information. If any provided information is revised after completion of this analysis, Telamon Tower Engineering, PLLC should be notified immediately to revise results.

This analysis assumes the following:

- The tower or other superstructure and mounts (if existing) were properly constructed as per the original design and have been properly maintained in accordance with applicable code standards.
- Member sizes and strengths are accurate as supplied or are assumed as stated in the calculations.
- In the absence of sufficient design information, all welds and connections are assumed to develop at least the capacity of the connected member, unless otherwise stated in this analysis.
- All prior structural modifications, if any, are assumed to be correctly installed and fully effective.
- The loading configuration is complete and accurate as supplied and/or as modeled in the previous analysis. All appurtenances are assumed to be properly installed and supported as per manufacturer requirements.
- Some conservative assumptions may be used regarding appurtenances and their projected areas based on careful interpretation of data supplied, previous experience and standard industry practice.
- Installation of all equipment and steel should be confirmed not to cause tower conflicts nor impede the tower climbing pegs.

All opinions and conclusions are considered accurate to a reasonable degree of engineering certainty based upon the evidence available at the time of the report. All opinions and conclusions contained herein are subject to revision based upon receipt of new or updated information. All services are provided exercising a level of care and diligence equivalent to the standard of our profession. No warranty or guarantee, either expressed or implied, is offered. All services are confidential in nature and this report will not be released to any other party without the client's consent. The use of this analysis is limited to the expressed purpose for which it was commissioned and it may not be reused, copied or disseminated for any other purpose without consent from Telamon Tower Engineering, PLLC.

All services were performed, results obtained and recommendations made in accordance with generally accepted engineering principles and practices. Telamon Tower Engineering, PLLC is not responsible for the conclusions, opinions or recommendations made by others based on the information supplied in this analysis.

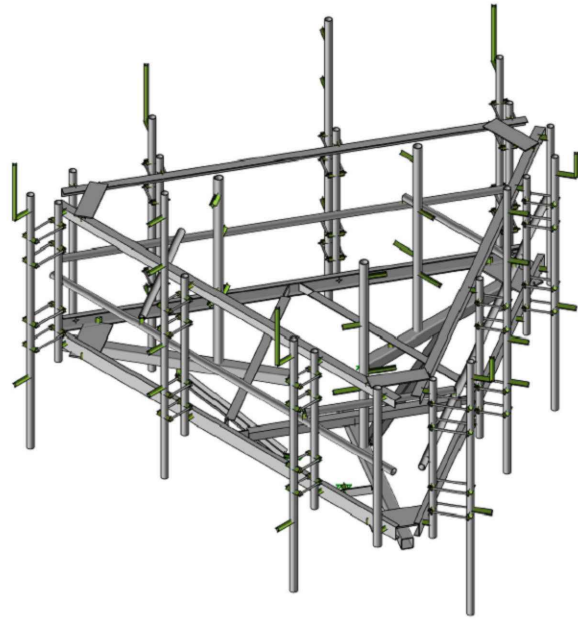
It is not possible to have the fully detailed information necessary to perform a complete and thorough analysis of every structural sub-component of an existing structure. The structural analysis by Telamon Tower Engineering, PLLC verifies the adequacy of the primary members of the structure. Telamon Tower Engineering, PLLC provides a limited scope of service in that we cannot verify the adequacy of every weld, bolt, gusset, etc.

Wind & Ice Loading			
Nominal Mount Elevation (AGL), Z_{mount}	163 ft	K_a	0.90
Nominal Rad Elevation (AGL), Z_{rad}	164 ft	K_d	0.95
Elevation AMSL (ft)	419 ft	K_e	0.98
TIA Standard	H	K_z	1.14
Basic Wind Speed, V_{ult} (bare)	118 mph	K_{zt}	1.00
Basic Wind Speed, V (ice)	50 mph	K_s	1.00
Design Ice Thickness, t_i	1 in	t_{ic}	1.17 in
Exposure Category	B	G_b	1.00
Risk Category	II	q_z (bare)	37.9 psf
Seismic Response Coeff., C_s	0.11	q_z (ice)	6.8 psf

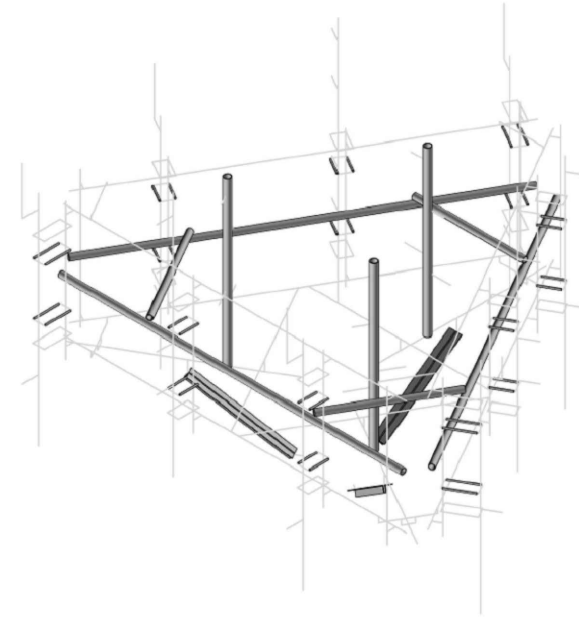
Live Loading	
At Mount Pipes, L_w	500 lb
Joint Labels Considered	1_M1
	1_M2
	1_M3
	1_M4

Member Distributed Loading				
Section Set Label	Shape Label	F_x (lb/ft)		Ice Wt (lb/ft)
		Bare	Ice	
Offset Arm	HSS4X4X4	22.74	1.74	8.98
Bottom Corner Plate	PL9X0.5	51.16	6.96	10.35
Face Horizontal	CSX6.7	28.42	1.82	9.03
Internal Horiz Plate	PL3X0.375	17.05	3.29	4.76
Internal Horiz	L3X3X4	17.05	1.67	7.04
Handrail	L3X3X4	17.05	1.67	7.04
Top Corner Plate	0.38 X 6 PLATE	34.11	5.12	7.50
MOD SAMAST6	PIPE_2.5	9.81	3.20	5.80
MOUNT_PIPE_2.0	PIPE_2.0	8.10	2.89	5.09
Threaded Rods	1/2 SR	1.71	1.74	2.40
MOD Threaded Rods	5/8 SR	2.13	1.82	2.58
MOD PRK	L2.5X2.5X3	14.21	1.63	6.13
MOD Support Rail	PIPE_2.0	8.10	2.89	5.09
MOD SR Bracing	PIPE_2.0	8.10	2.89	5.09

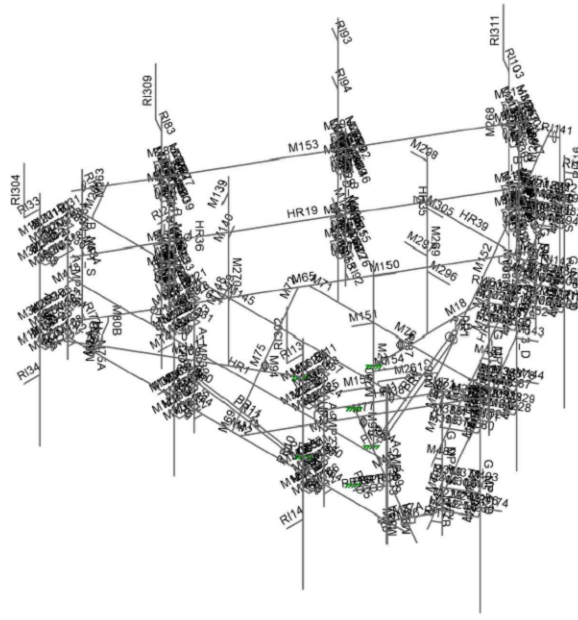
Appurtenances																															
Appurtenance Model	Status	Azimuth Offset (*, U)	Rad Elev. Override (ft)	Swap Width & Depth	Area Factor		Qty. per Azimuth			Total Qty. Override	23° Joints		142° Joints		264° Joints		Height (in)	Width (in)	Depth (in)	Weight (Bare) (lb)	Shape	Weight of Ice (lb)	EPA _A (Bare) (ft²)		EPA _A (Ice) (ft²)		F _A (Bare) (lb)		F _A (Ice) (lb)		
					Front	Side	23°	142°	264°		1	2	1	2	1	2							N	T	N	T	N	T	N	T	
AIR 6449 B77D			166					1	1	1	3	1_A3T	1_A3B	2_A3T	2_A3B	3_A3T	3_A3B	30.4	15.9	10.6	81.6	Flat	78.62	4.03	2.72	4.98	3.54	138.11	93.33	30.66	21.78
AIR 6419 B77G								1	1	1	3	1_A3T1	1_A3B1	2_A3T1	2_A3B1	3_A3T1	3_A3B1	28.3	16.1	7.9	66.1	Flat	71.12	3.80	1.94	4.71	2.66	129.74	66.21	28.90	16.35
DMP65R-BU8D								1	1	1	2	1_A4T	1_A4B	2_A4T	2_A4B			96	20.7	7.7	105.6	Generic	229.10	15.86	5.95	18.07	7.90	541.91	203.30	110.84	48.46
DMP65R-BU6DA								1	1	1	1					3_A4T	3_A4B	71.2	20.7	7.7	79.4	Flat	184.19	12.71	5.62	14.49	7.24	434.26	191.87	88.88	44.41
TPA65R-BU8D								1	1	1	2	1_A2T	1_A2B	2_A2T	2_A2B			96	21	7.8	87.5	Generic	232.41	15.91	5.97	18.12	7.94	543.62	203.99	111.14	48.72
TPA-65R-BU6DA-K										1	1					3_A2T	3_A2B	71.1	25.5	7.6	79.6	Flat	212.84	15.27	5.55	17.13	7.17	521.76	189.57	105.10	43.98
DO9-48-60-24-80-EV										1	1							31.41	10.24	18.28	26.2	Flat	87.04	2.74	4.78	3.56	5.80	93.51	163.49	21.87	35.60
DO6-48-60-18-8F										1	1	2			D2	D3		23.5	9.7	9.7	20	Round	39.21	1.11	1.11	1.51	1.51	37.86	37.86	9.29	9.29
RRIS 4426 B66						0.5		1	1	1	3	R1			R2	R3		14.96	13.19	5.8	48.4	Flat	30.10	0.73	0.82	1.18	1.12	24.78	28.09	7.21	6.87
RRIS 32 B30						0.5		1	1	1	3	R1			R2	R3		26.7	12.1	6.7	60	Flat	47.90	1.57	1.35	2.25	1.75	53.74	46.00	13.79	10.73
RRIS 4478 B14						0.5		1	1	1	3	R4			R5	R6		16.5	13.4	7.7	59.9	Flat	37.28	1.06	0.92	1.58	1.24	36.18	31.48	9.68	7.59
RRIS 4449 B5, B12						0.5		1	1	1	3	R4			R5	R6		17.9	13.19	9.44	71	Flat	47.95	1.41	0.98	1.99	1.31	48.11	33.61	12.20	8.04
RRIS 32 B2								1	1	1	3	R7			R8	R9		27.2	12.05	7	52.9	Flat	49.44	2.73	1.67	3.55	2.36	93.33	67.00	21.75	14.47



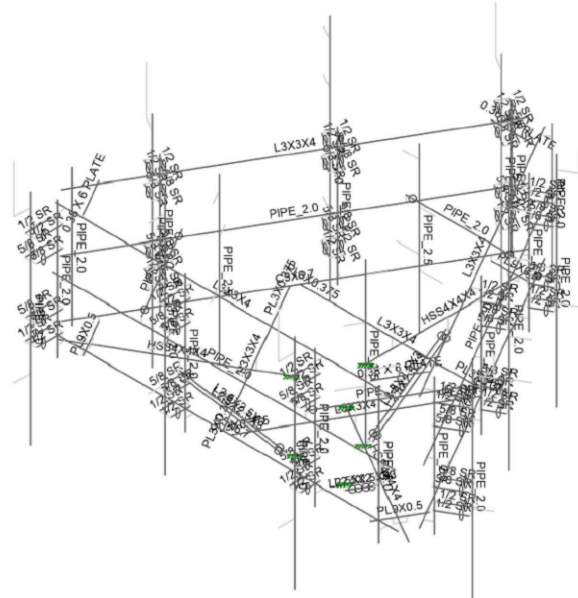
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41124-13753210_C9_05-02-MOD	Rendered	302524_13753210_C9_05_AT&T...



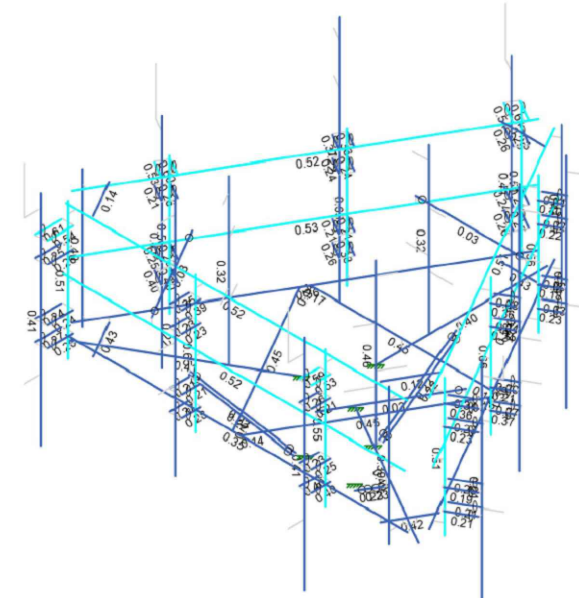
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Telamon CLS	41124-13753210_C9_05- Beacon Falls	SK-2
GD		Apr 12, 2022
41124-13753210_C9_05-02-MOD	Proposed Modifications - Rendered	302524_13753210_C9_05_AT&T...



Envelope Only Solution		
Telamon CLS	41124-13753210_C9_05- Beacon Falls	SK-3
GD		Apr 12, 2022
41124-13753210_C9_05-02-MOD	Member Labels	302524_13753210_C9_05_AT&T...

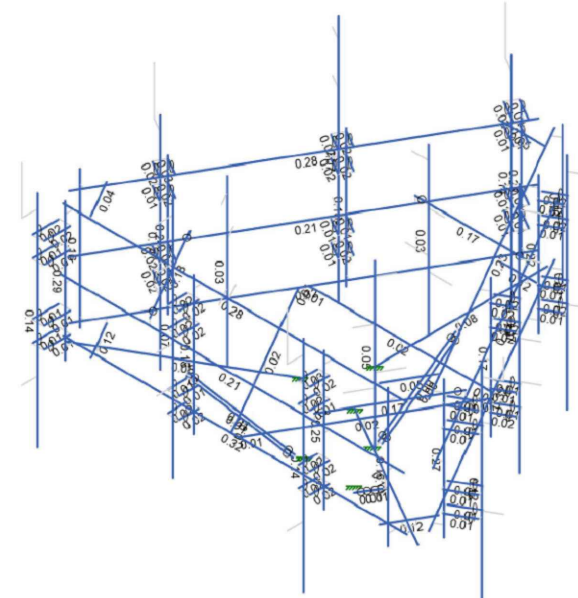


Envelope Only Solution		
Telamon CLS	41124-13753210_C9_05- Beacon Falls	SK-4
GD		Apr 12, 2022
41124-13753210_C9_05-02-MOD	Member Shapes	302524_13753210_C9_05_AT&T...



Member Code Checks Displayed (Enveloped) Envelope Only Solution		
Telamon CLS	41124-13753210_C9_05- Beacon Falls	SK-5
GD		Apr 12, 2022
41124-13753210_C9_05-02-MOD	Envelope Member Unity Check Results - Bending	302524_13753210_C9_05_AT&T...

Code Check (Env)	
■ No Calc	> 1.0
■	90-1.0
■	75-90
■	50-75
■	0-.50



Member Shear Checks Displayed (Enveloped) Envelope Only Solution		
Telamon CLS	41124-13753210_C9_05- Beacon Falls	SK-6
GD		Apr 12, 2022
41124-13753210_C9_05-02-MOD	Envelope Member Unity Check Results - Shear	302524_13753210_C9_05_AT&T...

Shear Check (Env)	
■ No Calc	> 1.0
■	90-1.0
■	75-90
■	50-75
■	0-.50



319 CHAPANOKE RD, SUITE 118
RALEIGH, NC 27603
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TELAMON TOWER ENGINEERING PLLC PROJECT ID:
41124-ATC MA-302524-13753210

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REV.	DESCRIPTION	DRAWN BY	DATE
A	PRELIMINARY	RM	04/11/2022
0	FOR CONSTRUCTION	RM	04/12/2022

ATC SITE NUMBER:

302524

ATC SITE NAME:

BEACON FALLS
CONNECTICUT

SITE ADDRESS:

664 RIMMON HILL ROAD
SEYMOUR, CT 06483-2722



David Chickering
Telamon Tower Engineering PLLC
PE # 35683 Exp. 01/31/2023

04/12/2022

DRAWN BY:	RM
APPROVED BY:	DC
DATE DRAWN:	04/12/2022
ATC JOB NO:	13753210_C9_05

SHEET TITLE

SUPPLEMENTAL

SHEET NUMBER

R-904

REVISION

0

Basic Load Cases					
	BLC Description	Category	Z Gravity	Nodal	Distributed Area(Member)
1	Dead	DL	-1	42	6
2	Ice Dead	RI		42	132
3	BLC 1 Transient Area Loads	None		60	
4	BLC 2 Transient Area Loads	None		60	
5	Structure Wind 0°	None		107	
6	Structure Wind 30°	None		246	
7	Structure Wind 45°	None		264	
8	Structure Wind 60°	None		214	
9	Structure Wind 90°	None		123	
10	Structure Wind 120°	None		214	
11	Structure Wind 135°	None		264	
12	Structure Wind 150°	None		246	
13	Structure Wind 180°	None		107	
14	Structure Wind 210°	None		246	
15	Structure Wind 225°	None		264	
16	Structure Wind 240°	None		214	
17	Structure Wind 270°	None		123	
18	Structure Wind 300°	None		214	
19	Structure Wind 315°	None		264	
20	Structure Wind 330°	None		246	
21	Structure Wind w/ Ice 0°	None		107	
22	Structure Wind w/ Ice 30°	None		246	
23	Structure Wind w/ Ice 45°	None		264	
24	Structure Wind w/ Ice 60°	None		214	
25	Structure Wind w/ Ice 90°	None		123	
26	Structure Wind w/ Ice 120°	None		214	
27	Structure Wind w/ Ice 135°	None		264	
28	Structure Wind w/ Ice 150°	None		246	
29	Structure Wind w/ Ice 180°	None		107	
30	Structure Wind w/ Ice 210°	None		246	
31	Structure Wind w/ Ice 225°	None		264	
32	Structure Wind w/ Ice 240°	None		214	
33	Structure Wind w/ Ice 270°	None		123	
34	Structure Wind w/ Ice 300°	None		214	
35	Structure Wind w/ Ice 315°	None		264	
36	Structure Wind w/ Ice 330°	None		246	
37	Antenna Wind 0°	None		42	
38	Antenna Wind 30°	None		84	
39	Antenna Wind 45°	None		84	
40	Antenna Wind 60°	None		84	
41	Antenna Wind 90°	None		42	
42	Antenna Wind 120°	None		84	
43	Antenna Wind 135°	None		84	
44	Antenna Wind 150°	None		84	
45	Antenna Wind 180°	None		42	
46	Antenna Wind 210°	None		84	
47	Antenna Wind 225°	None		84	
48	Antenna Wind 240°	None		84	
49	Antenna Wind 270°	None		42	
50	Antenna Wind 300°	None		84	
51	Antenna Wind 315°	None		84	
52	Antenna Wind 330°	None		84	
53	Antenna Wind w/ Ice 0°	None		42	
54	Antenna Wind w/ Ice 30°	None		84	
55	Antenna Wind w/ Ice 45°	None		84	

Basic Load Cases (Continued)					
	BLC Description	Category	Z Gravity	Nodal	Distributed Area(Member)
56	Antenna Wind w/ Ice 60°	None		84	
57	Antenna Wind w/ Ice 90°	None		42	
58	Antenna Wind w/ Ice 120°	None		84	
59	Antenna Wind w/ Ice 135°	None		84	
60	Antenna Wind w/ Ice 150°	None		84	
61	Antenna Wind w/ Ice 180°	None		42	
62	Antenna Wind w/ Ice 210°	None		84	
63	Antenna Wind w/ Ice 225°	None		84	
64	Antenna Wind w/ Ice 240°	None		84	
65	Antenna Wind w/ Ice 270°	None		42	
66	Antenna Wind w/ Ice 300°	None		84	
67	Antenna Wind w/ Ice 315°	None		84	
68	Antenna Wind w/ Ice 330°	None		84	
69	Seismic X	ELX		42	132
70	Seismic Y	ELY		42	132
71	Seismic Z	ELZ		42	132
72	Maintenance Live 500 (1)	OL1		1	
73	Maintenance Live 500 (2)	OL2		1	
74	Maintenance Live 500 (3)	OL3		1	
75	Maintenance Live 500 (4)	OL4		1	

TOWER-MOUNT CONNECTION ANALYSIS

SITE INFORMATION	
Site ID	302524
Site Name	Beacon Falls
Project ID	41124-13753210_C9_05-02-MOD

ANALYSIS PARAMETERS	
Case Definition	1

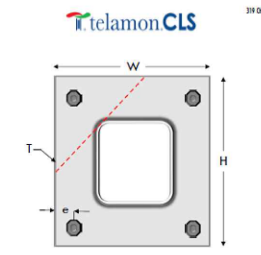
APPLIED FORCES FROM B30	
Member Label	A500
Member End Label	1
Force-X	Px, lbs 2780.7
Force-Y	Px, lbs 156.7
Force-Z	Pz, lbs -958.3
Moment 2-X	Mx, lbs-ft -425.1
Moment 1-Y	My, lbs-ft 2541.0
Moment 2-Z	Mz, lbs-ft 76.5

STANDOFF MEMBER PROPERTIES	
Standoff Member Type	Square Bolt NDS
Standoff Member Grade	H024841/4
Standoff Member Grade	A500-46 Gr-B Bolt
Member to Plate Weld Size, in	3/16

BOLT & PLATE PROPERTIES	
Bolt Geometry	4
Bolt Edge Distance (E), in	1.00
Horizontal Bolt Diameter (D), in	0.625
Bolt Grade	A325
Plate Height (H), in	6.00
Plate Width (W), in	6.00
Plate Thickness (T), in	0.50
Plate Grade	A36

BOLT ANALYSIS	
Shear Demand (V), k	0.35
Shear Capacity (ΦV), k	13.81
Tension Demand (T), k	3.76
Tension Capacity (ΦT), k	20.34
Shear Utilization	2.5%
Tension Utilization	18.5%
Interaction Utilization	2.5%

PLATE ANALYSIS	
Moment Demand (M), k-in	5.55
Flexural Capacity (ΦM), k-in	11.46
Plate Utilization	48.7%



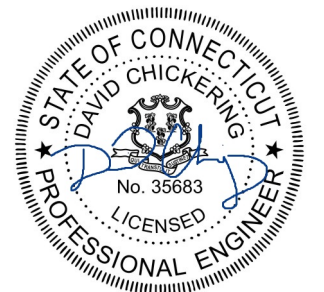
MATERIAL PROPERTIES	
Standoff Member - Yield Strength (Fy), ksi	46
Standoff Member - Ultimate Strength (Fu), ksi	58
Bolt - Yield Strength (Fy), ksi	92
Bolt - Tensile Strength (Fu), ksi	110
Plate - Yield Strength (Fy), ksi	36
Plate - Ultimate Strength (Fu), ksi	58

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