

April 26, 2022

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

Re: Notice of Exempt Modifications – AT&T Site CT5403
AT&T Telecommunications Facility @ 605 Willard Ave Newington, CT 06111

Dear Ms. Bachman,

New Cingular Wireless, PCS, LLC (“AT&T”) currently maintains a wireless telecommunications facility on an existing +/- 198’ monopole tower at the above referenced address, latitude 41.69837222, longitude -72.73714722. Said monopole tower is owned and managed by American Tower Corporation.

AT&T desires to modify its existing telecommunications facility by replacing six (6) antennas, adding (4) antennas, removing (3) TMAs, removing (3) diplexers, replacing one (1) surge arrestor with the associated cables as more particularly detailed and described on the enclosed Construction Drawings prepared by Hudson Design Group LLC., last revised on May 2, 2022. The centerline height of the existing antennas is and will remain at 156 feet, however the new antennas will be stacked with a centerline of 154 feet and 158 feet.

Please accept this letter as notification pursuant to R.C.S.A §16-50j-73 for construction that constitutes an exempt modification pursuant to R.C.S.A §16-50j-72(b)(2). In accordance with R.C.S.A §16-50j-73, a copy of this letter is being sent to the following individuals: Keith Chapman Town Manager for the Town of Newington; Renata Bertotti Town Planner; American Tower Corporation as Tower Owner and Newington High School as Property Owner

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

1. The proposed modifications will not result in an increase in the height of the existing structure.
2. The proposed modifications will not require an extension of the site boundary.
3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
4. The operation of the modified facility will not increase radio frequency emissions at the facility to a level at or above the Federal Communications Commissions safety standard. *Please see the RF emissions calculation for AT&T’s modified facility enclosed herewith.*
5. The proposed modifications will not cause an ineligible change or alternation in the physical or environmental characteristics of the site.

6. The existing structure and its foundation can support the proposed loading. Please see the structural analysis dated January 28, 2022 and prepared by American Tower Corporation enclosed herewith.

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

Best Regards,

Allison Hebel

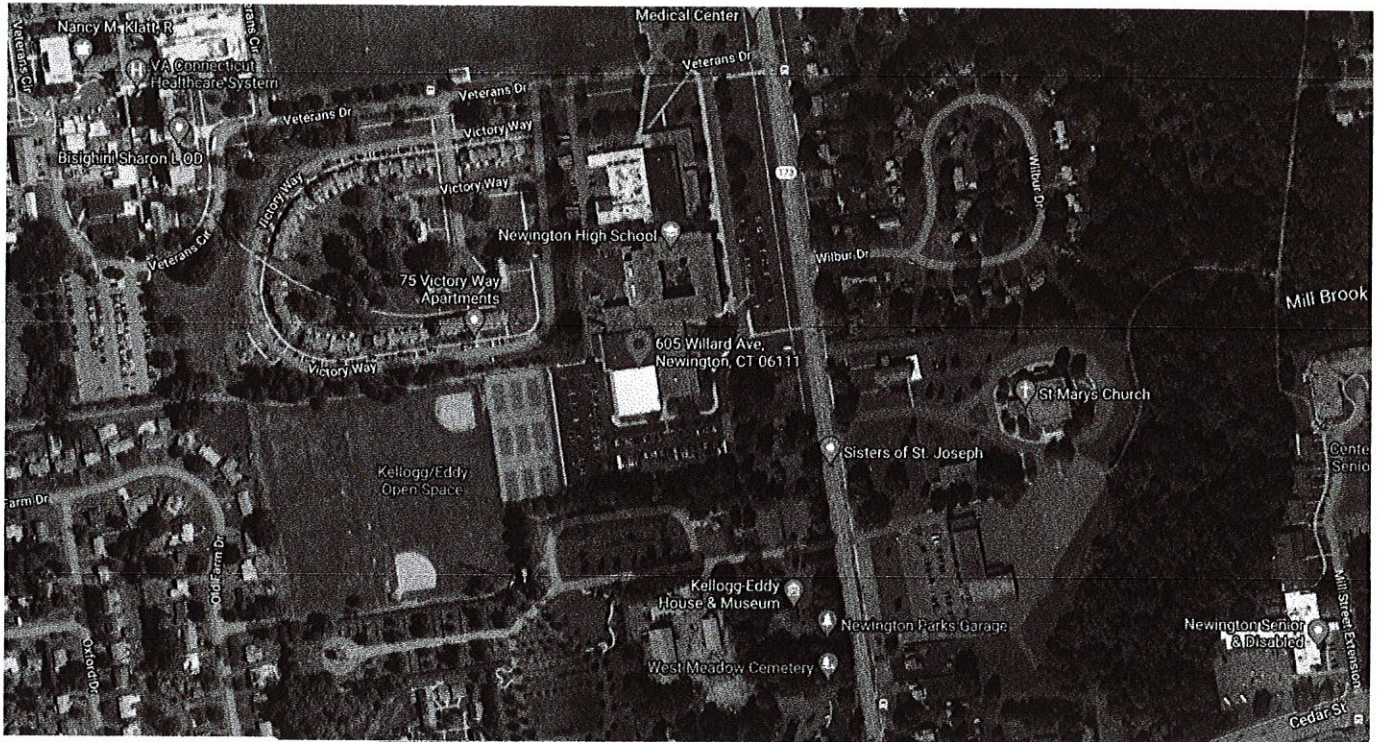
Site Acquisition Consultant – Agent for AT&T
Centerline Communications LLC
750 West Center St. Ste 301
West Bridgewater, MA 02379
215-588-7035
ahebel@clinellc.com

Enclosures: Exhibit 1 – Construction Drawings
Exhibit 2 – Property Card and GIS
Exhibit 3 – Structural Analysis
Exhibit 4 – Mount Analysis
Exhibit 5 – RF Emissions Analysis Report Evaluation
Exhibit 6 – Available Town of Newington Original Tower Approval Records
Exhibit 7 – Notice Delivery Confirmations

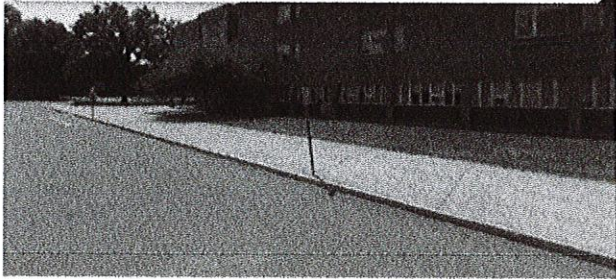
Cc: Keith Chapman, as Town Manager, Town of Newington
Renata Bertotti, as Town Planner, Town of Newington
American Tower Corporation, as Tower Owner
Newington High School, as Property Owner

EXHIBIT 1

EXHIBIT 2




605 Willard ave newington, ct



605 Willard Ave
Newington, CT 06111
Building

Directions Save Nearby Send to your phone Share

 Suggest an edit on 605 Willard Ave

The Assessor's office is responsible for the maintenance of records on the ownership of properties. Assessments are computed at 70% of the estimated market value of real property at the time of the last revaluation which was 2015.

Town of Newington

ASSESSOR'S OFFICE



Information on the Property Records for the Municipality of Newington was last updated on 12/2/2020.

Parcel Information

Location:	605 WILLARD AVE	Property Use:	School	Primary Use:	Elementary School
Unique ID:	N0046500	Map Block Lot:	09/300/000	Acres:	80.59
490 Acres:	0.00	Zone:	R-12/	Volume / Page:	189/67
Developers Map / Lot:	N/W 1860 & 1969	Census:			

Value Information

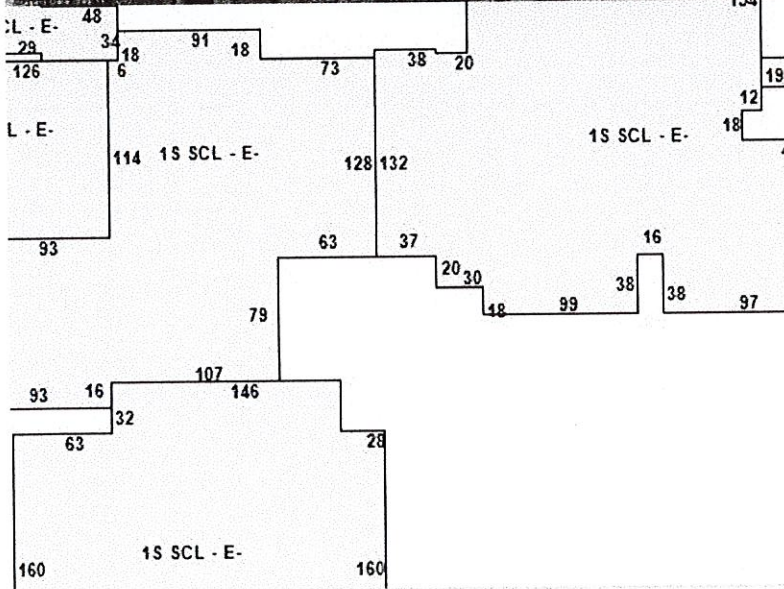
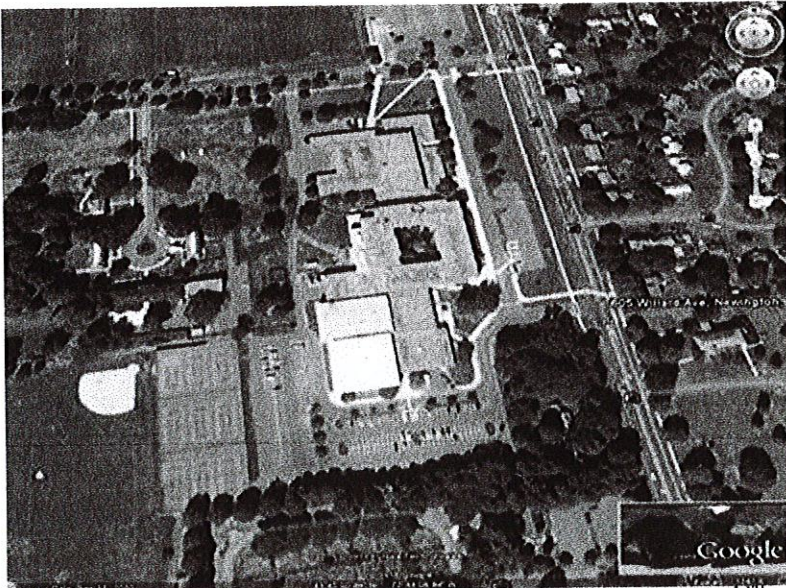
	Appraised Value	Assessed Value
Land	8,147,790	5,703,450
Buildings	22,823,428	15,976,410
Detached Outbuildings	534,775	374,340
Total	31,505,993	22,054,200

Owner's Information

Owner's Data

NEWINGTON TOWN OF
NEWINGTON HIGH SCHOOL
131 CEDAR ST
NEWINGTON, CT 06111

Building 1



Category:	School	Use:	High School	GLA:	171,729
Stories:	1.00	Construction:	Masonry	Year Built:	1971

Heating:	Forced Hot Air	Fuel:	Natural Gas	Cooling Percent:	100
Siding:	Brick	Roof Material:	Asphalt	Beds/Units:	0

Special Features

Attached Components

Detached Outbuildings

Type:	Year Built:	Length:	Width:	Area:
Tennis Courts	1971	0.00	0.00	10,000
4 Ft Chain Fence	1978	1.00	25,000.00	25,000
Paving	1978	1.00	175,000.00	175,000
Gunite Pool	1971	1.00	3,344.00	3,344
Frame Shed	1978	1.00	288.00	288

Owner History - Sales

Owner Name	Volume	Page	Sale Date	Deed Type	Valid Sale	Sale Price
NEWINGTON TOWN OF	0189	0067	09/20/1968		No	\$0
NEWINGTON TOWN OF	0182	0151	10/03/1967		No	\$0
NEWINGTON TOWN OF	0180	0281	07/27/1967		No	\$0
U S GOVT	0027	0488	01/11/1930		No	\$0

Building Permits

Permit Number	Permit Type	Date Opened	Date Closed	Permit Status	Reason
E-20-27	Electrical	01/22/2020		Imported Record	Install low voltage cameras to existing system.
E-19-299	Electrical	08/14/2019		Closed	INSTALL 155 LOCATIONS WITH 3 CAT 6 PLENUM RATED CABLER PER. REMOVAL NOT INCLUDED
B-19-215	Other	04/30/2019		Closed	SWAP (6) PANELS AND SWAP (3) RRU's INSTALL (1) 1-1/4" HYBRID CABLE, AND (1) 1-5/8" HYBRID CABLE
B-19-75	Comm Renovations	02/26/2019		Closed	BUILD 8X12 ROOM OF I.T. SERVER
E-19-33	Electrical	02/12/2019		Closed	Newington High School, 605 Willard Ave, Newington -- Installation of a 12 strand, OS2 Armored Plenum
E-19-32	Electrical	02/11/2019		Closed	Install 200Amp Transfer switch
B-18-714	Comm Renovations	12/11/2018		Closed	UPGRADE AND REINFORCE MOUNTS WITH (3) RELOCATED & (3) REPLACEMENT ANTENNAS, (6) REPLACEMENT RRU's AN
M-18-209	Mechanical	08/08/2018		Closed	Install HVAC per plans and specifications. Includes ductless heat-pump system with air to air heat e
M-18-192	Mechanical	07/30/2018		Closed	INSTALL NEW GAS LINE & REPLACE BURNER
P-18-149	Fire Sprinkler	07/27/2018		Closed	INSTALL SPRINKLER HEADS IN NEW CEILINGS OF ART ROOMS 415, 415A, 416, 417, 418.
P-18-139	Plumbing	07/12/2018		Closed	INSTALL MEN & WOMEN'S HANDICAP BATHROOM, 3 W/C, 2 LAVS OFF KITCHEN
B-18-387	Comm Renovations	07/11/2018		Closed	INSTALL NEW SUSPENDEED CEILING, REWORK SPRINKLERS.
B-18-290	Comm Renovations	06/01/2018		Closed	DEMO OF EXISTING EMPLOYEES TOILETS TO MAKE ADA ACCESSABLE
B-18-265	Remodel	05/24/2018		Closed	AT&T, an existing tenant on the existing wireless communication tower proposes to upgrade its equipm
E-18-167	Electrical	05/22/2018		Closed	Install 120 Volt power to 10 auto door openers
E-18-162	Other	05/17/2018		Closed	Replace existing generator and transfer switch
B-17-686	Comm Renovations	12/05/2017		Closed	ADDITION OF THREE (3) ANTENNAS AND THREE (3) RRHS ONTO EXISTING COMMUNICATION TOWER AT THE CURRENT C

Permit Number	Permit Type	Date Opened	Date Closed	Permit Status	Reason
E-17-451	Other	11/28/2017		Closed	Newington High School, Running fiber cable from the MDF to the Mech Room, through drop ceiling in ra
E-17-229	Electrical	07/18/2017		Closed	RENOVATION OF ART CLASS ROOMS. INCLUDES DEMO AND ALL NEW WIRING, BOTH HIGH & LOW VOLTAGE. PER PLAN
P-17-126	Plumbing	07/10/2017		Closed	INSTALL PLUMBING FOR SINKS & EMERGENCY EYE WASH & SHOWERS ART ROOMS 414, 415, 416, 417, 418. MOVE R
E-17-161	Electrical	05/25/2017		Closed	RELOCATION OF LOW-VOLTAGE FIBER CABLING IN ROOMS 418, 413, AND THE OFFICE
B-17-121	Comm Renovations	03/29/2017		Closed	RENOVATION OF ART ROOMS AT HIGH SCHOOL NORTH END
E-17-28	Electrical	01/24/2017		Closed	Install Burglar, access control and CCTV system.
E-16-549	Electrical	12/23/2016		Closed	COMPLETE CONTROL WIRING FOR (5) RTU'S, (1) EXHAUST FAN, (2) CABINET UNIT HEATERS, (2) RADIATORS AND
E-16-539	Electrical	12/15/2016		Closed	ELECTRICAL ALTERATIONS AS PER PLANS & SPECS ON FILE. POWER LIGHTING FIRE ALARM
P-16-259	Fire Sprinkler	12/13/2016		Closed	RELOCATE 4" MAIN FOR DUCTWORK BEING INSTALLED & RELOCATED. MISC. BRANCH PIPING AND DROP NEW HEADS I
P-16-242	Plumbing	11/23/2016		Closed	Plumbing Fixtures, Piping & Gas line
M-16-305	Air Conditioning	11/23/2016		Closed	New Sheet Metal, New Roof Top Units, New Cabinet Unit Heaters, New Gas Lines, New Radiators
P-16-195	Plumbing	09/21/2016		Closed	ROUGH UNDERGROUND PLUMBING FOR PHASE 1 CULINARY ARTS AREA. 2 H/C BATHROOMS, 2 F.O., 2 HANDSINKS, GR
B-16-589	Comm Renovations	08/04/2016		Closed	10,00 SQ FT CONVERT INDUSTRIAL TECH PROGRAM TO A STEM PROGRAM.
TB-16-475	Commercial Demolition	05/30/2016		Closed	DEMO OF EXISTING SPACE.
M-16-75	Air Conditioning	04/20/2016		Closed	AC
B-15-606	Comm Renovations	02/23/2016		Closed	(3) PANEL ANTENNAS AND ADD A NEW COMMSCOPE
TB-14-295	Addition	05/20/2014		Closed	ADDITION TO BAND ROOM

Permit Number	Permit Type	Date Opened	Date Closed	Permit Status	Reason
TB-13-197	Remodel	04/26/2013		Closed	AAUDITORIUM, BAND AND CHORUS ROOMS
B-11-429	Commercial New	08/16/2011		Closed	New construct
B-11-352	Remodel	08/03/2011		Closed	remodel
TB-11-352	Remodel	06/28/2011		Closed	Remodel
	Addition	06/28/2010		Closed	Gym flr replacement / misc

Information Published With Permission From The Assessor

EXHIBIT 3



AMERICAN TOWER®
CORPORATION

Structural Analysis Report

Structure : 179 ft Monopole
ATC Site Name : Newington CT,CT
ATC Site Number : 370627
Engineering Number : 13682696_C3_07
Proposed Carrier : AT&T MOBILITY
Carrier Site Name : MRCTB051590
Carrier Site Number : CT5403
Site Location : 605 Willard Ave.
Newington, CT 06111-0000
41.6984, -72.7371
County : Hartford
Date : January 28, 2022
Max Usage : 69%
Result : Pass

Prepared By:

Justin Althizer
ETS

Prepared By:

Frederic G. Bost, PE
ETS Job No. 22101965.STR.8826





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Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 179 ft Monopole to reflect the change in loading by AT&T MOBILITY.

Supporting Documents

Tower Drawings	PiRod Engineering File #A-118092, dated August 10, 2001
Foundation Drawing	PiRod Engineering File #A-118092, dated August 10, 2001
Geotechnical Report	Clarence Welti, dated August 1, 2001

Analysis

The tower was analyzed using American Tower Corporation's tower analysis software. This program considers an elastic three-dimensional model and second-order effects per ANSI/TIA-222.

Basic Wind Speed:	118 mph (3-second gust)
Basic Wind Speed w/ Ice:	50 mph (3-second gust) w/ 1.50" radial ice concurrent
Code:	ANSI/TIA-222-H / 2015 IBC / 2018 Connecticut State Building Code
Exposure Category:	B
Risk Category:	II
Topographic Factor Procedure:	Method 1
Topographic Category:	1
Crest Height (H):	0 ft
Crest Length (L):	0 ft
Spectral Response:	$S_s = 0.19$, $S_1 = 0.06$
Site Class:	D - Stiff Soil - Default

Conclusion

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

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

Existing and Reserved Equipment

Elev. ¹ (ft)	Qty	Equipment	Mount Type	Lines	Carrier
187.9	1	Generic 18' Dipole	Triangular Low Profile Platform	(3) 7/8" Coax	TOWN OF NEWINGTON, CT
180.0	1	Generic 8' Yagi			
	1	Generic 10' Omni			
170.0	3	Ericsson AIR32 B66Aa/B2a	Triangular Low Profile Platform	(3) 1 1/4" (1.25"-31.8mm) Fiber (1) 1 5/8" Hybriflex	T-MOBILE
	3	Ericsson Air6449 B41			
	3	Ericsson RRUS 4415 B25			
	3	Ericsson Radio 4449 B71 B85A			
	3	RFS APXVAARR24_43-U-NA20			
156.0	1	CCI DMP65R-BU6DA	Platform with Handrails	(3) 2" conduit	AT&T MOBILITY
	1	CCI OPA-65R-LCUU-H6			
	3	Ericsson RRUS 32 B30			
	3	Ericsson RRUS 4449 B5, B12			
	3	Ericsson RRUS 4478 B14			
	3	Ericsson RRUS 8843 B2, B66A			
	1	Raycap DC6-48-60-18-8F ("Squid")			
	2	CCI OPA-65R-LCUU-H8 (92.7")			
	2	CCI DMP65R-BU8D			
143.5	3	Alcatel-Lucent TD-RRH8x20	Triangular Low Profile Platform	(4) 1 1/4" Hybriflex Cable	SPRINT NEXTEL
	3	Alcatel-Lucent TD-RRH8x20			
142.4	3	Alcatel-Lucent 800 MHz 2X50W RRH w/ Filter			
140.6	1	RFS APXV9ERR18-C-A20			
140.5	3	Alcatel-Lucent 1900MHz RRH			
140.3	2	RFS APXVSPP18-C-A20			
139.9	3	RFS APXVTM14-C-I20 (56.2 lbs)			
110.0	6	Commscope SBNHH-1D65B (40.6 lbs)	Triangular Platform with Handrails	(6) 1 5/8" Coax (2) 1 5/8" Hybriflex	VERIZON WIRELESS
	3	Samsung MT6407-77A			
	3	Antel BXA-80063/4CF ____ 5°			
	2	Raycap RRFDC-3315-PF-48			
	3	Samsung B5/B13 RRH-BR04C			
	3	Samsung B2/B66A RRH-BR049			

Equipment to be Removed

Elev. ¹ (ft)	Qty	Equipment	Mount Type	Lines	Carrier
156.0	6	Powerwave Allgon LGP21401		(3) 0.39" (10mm) Fiber Trunk (5) 0.78" (19.7mm) 8 AWG 6 (6) 1 5/8" Coax (1) 3/8" (0.38"- 9.5mm) RET Control Cable	AT&T MOBILITY
	1	Raycap DC6-48-60-18-8F ("Squid")			
	3	Ericsson RRUS 32 B2			
	1	Raycap DC6-48-60-0-8F (31.4" Height)			
	3	Kathrein Scala 800 10121			
	1	Quintel QS66512-2			
154.0	2	CCI TPA-65R-LCUUUU-H8			

Proposed Equipment

Elev. ¹ (ft)	Qty	Equipment	Mount Type	Lines	Carrier
158.0	3	Ericsson AIR 6449 n77D	Triangular Platform with Handrails	(3) 0.40" (10.3mm) Fiber (6) 0.82" (20.8mm) 8 AWG 6 (1) 1.15" (29.2mm) Cable (2) 2" conduit	AT&T MOBILITY
156.0	1	Raycap DC6-48-60-18-8F			
	3	Ericsson RRUS E2 B29			
	1	Raycap DC9-48-60-24-8C-EV			
	2	Quintel QD8616-7			
	1	Quintel QD6616-7			
154.0	3	Ericsson AIR 6419 N77G			

¹ Contracted elevations are shown for appurtenances within contracted installation tolerances. Appurtenances outside of contract limits are shown at installed elevations.

² Install proposed lines inside the pole shaft.

Structure Usages

Structural Component	Controlling Usage	Pass/Fail
Anchor Bolts	59%	Pass
Shaft	69%	Pass
Base Plate	64%	Pass

Foundations

Reaction Component	Analysis Reactions	% of Usage
Axial (Kips)	63.4	2%
Shear (Kips)	31.7	6%

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

Deflection and Sway*

Antenna Elevation (ft)	Antenna	Carrier	Deflection (ft)	Sway (Rotation) (°)
158.0	Ericsson AIR 6449 n77D	AT&T MOBILITY	2.111	1.720
156.0	Ericsson RRUS E2 B29		2.051	1.700
	Raycap DC6-48-60-18-8F			
	Raycap DC9-48-60-24-8C-EV			
	Quintel QD8616-7			
	Quintel QD6616-7			
154.0	Ericsson AIR 6419 N77G		1.993	1.670

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

Standard Conditions

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

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

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

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

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

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

EXHIBIT 4



AMERICAN TOWER®
CORPORATION

This report was prepared for American Tower Corporation by

telamon
Tower Engineering PLLC

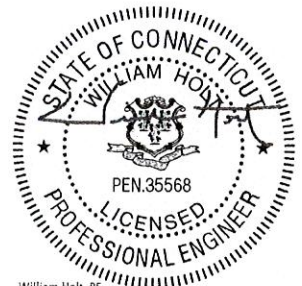
Antenna Mount Analysis Report

ATC Site Name : Newington CT
ATC Asset Number : 370627
Engineering Number : 13682696_C8_06
Mount Elevation : 155 ft
Carrier : AT&T Mobility
Carrier Site Name : MRCTB051590
Carrier Site Number : CTV5403
Site Location : 605 Willard Ave.
Newington, CT 06111-0000
41.69837222, -72.73714722
County : Hartford
Date : February 28, 2022
Max Usage : 50%
Result : Contingent Pass*
*See conclusion for requirements

Prepared By:
Rohit Yadav
Telamon Tower Engineering, PLLC

Reviewed By:
William Holt, P.E.
Telamon Tower Engineering, PLLC

Digitally signed by William
Holt
Date: 2022.02.28 13:57:55
-05'00'



William Holt, PE
Director of Engineering
License No. 35568 Expires: 01/31/2023

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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 June 07, 2021 Spec Sheet by Site Pro 1, Dwg #RMQLP-4120-H10
Previous Analyses	Tower SA by POD for ATC, Eng. #13682696_C3_04, dated November 11, 2021 Mount Analysis by ATC, Eng. #13222844_C8_09, dated September 04, 2020
Loading Data	ATC Application, Project #13682696, Revision #1, dated January 24, 2022 AT&T RFDS, RFDS ID #4392789, Version: 3, dated October 25, 2021

Analysis

Codes	TIA-222-H
Basic Wind Speed	118 mph, V_{ult} (3-Second Gust)
Basic Wind Speed w/ Ice	50 mph (3-Second Gust) w/ 1.5" 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_M : 500 lb
Spectral Response	S_s : 0.19; S_1 : 0.06; 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 following scope is executed:

AT&T CONMAT does not have parts which connect HSS tube to pipe and flush mount. Hence proposing modifications parts which are not listed in the CONMAT approved list.

- **Install (1) proposed mount pipe 4 ft. long Pipe 2STD, A53 Gr. B at stand-off horizontal at each sector for proposed RRUS (3 total) as shown. Connect to stand-off member using (1) Site Pro 1 BBPM-K1 crossover plate (3 total).**
- **Install (1) proposed Site Pro 1 LWRM (MIC.11440) ring mount to monopole with (3) Site Pro 1 FMA-1 flush mount adapter as shown and install (1) proposed Site Pro 1 P30120 (ANT.16008) 10ft. long pipe 2.5STD, A53 Gr. B at each sector for spare panel configuration (3 total).**

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.

Antenna Loading

Elevation (ft)		Antennas	
Mount	Rad.	#	Name
154.5	158.0	3	Ericsson AIR 6449 n77D
	156.0	2	Quintel Technology QD8616-7
		2	CCI DMP65R-BU8D
		2	CCI OPA-65R-LCUU-H8
		1	CCI OPA-65R-LCUU-H6
		1	Quintel Technology QD6616-7
		1	CCI DMP65R-BU6D
		1	Raycap DC9-48-60-24-8C-EV
		3	Ericsson RRUS 32 B30
		3	Ericsson RRUS E2 B29
		3	Ericsson RRUS 4449 B5, B12
		3	Ericsson RRUS 4478 B14
		3	Ericsson RRUS 8843 B2/B66A
		1	Raycap DC6-48-60-18-8F
		1	Raycap DC6-48-60-0-8F
	154.0	3	Ericsson AIR 6419 N77G

Structure Usages

Structural Component	Controlling Usage	Pass/Fail
Support Rail Connection Plate	50%	Pass
Support Rail Connection Angle	44%	Pass
Mount Pipes	41%	Pass
Support Rail	35%	Pass
Mount to Tower Connections	33%	Pass
Stand-Off Horizontals	31%	Pass
Grating Angle	22%	Pass
Platform Base	10%	Pass

EXHIBIT 5



Radio Frequency Exposure Analysis Report

April 21, 2022

American Tower on behalf of AT&T
Centerline Communications Project Number: 950007-208

AT&T Site Name: Newington Central
Site Number: CTV5403
FA#: 10071165
USID: 25995

Site Address: 605 Willard Avenue, Newington, CT 06111

Site Compliance Summary

AT&T Compliance Status:	Compliant
Cumulative Calculated Power Density (Ground Level):	1.92394 $\mu\text{W}/\text{cm}^2$
Cumulative General Population % MPE (Ground Level):	0.24995%



April 21, 2022

American Tower
Attn: Dayna Priest, Site Development, East Region-American Tower

RF Exposure Analysis for Site: **Newington Central**

Centerline Communications, LLC ("Centerline") was contracted to analyze the proposed AT&T facility at **605 Willard Avenue, Newington, CT 06111** for the purpose of determining whether the predictive exposure from the proposed facility is within specified federal limits.

All information used in this report was analyzed as a percentage of the Maximum Permissible Exposure (% MPE) limits as detailed in 47 CFR § 1.1310 as well as Federal Communications Commission (FCC) OET Bulletin 65 Edition 97-01. The FCC MPE limits are typically expressed in units of milliwatts per square centimeter (mW/cm^2) or microwatts per square centimeter ($\mu\text{W}/\text{cm}^2$). The exposure limits vary depending upon the frequencies being utilized. The General Population/Uncontrolled MPE limit (in mW/cm^2) for frequencies between 300 and 1500 is defined as frequency (in MHz) divided by 1500 ($f_{\text{MHz}}/1500$). Frequencies between 1500 and 100,000 MHz have a General Population/Uncontrolled MPE limit of $1 \text{ mW}/\text{cm}^2$ ($1000 \mu\text{W}/\text{cm}^2$). The calculated power density at each sample point divided by the limit at each calculated frequency provides a result in % MPE. Summing the calculated % MPE from all contributors provides a cumulative % MPE at a particular sample point. Wireless carriers use different frequency bands with varying MPE limits; therefore, it is useful to report results in terms of % MPE as opposed to power density.

All results were compared to the FCC radio frequency exposure rules as detailed in 47 CFR § 1.1307(b) to determine compliance with the MPE limits for General Population/Uncontrolled environments as defined below.

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

Occupational/controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment and in which those persons who are exposed have been made fully aware of the potential for exposure and can exercise control over their exposure. Occupational/controlled exposure limits also apply where exposure is of a transient nature as a result of incidental passage through a location where exposure levels may be above general population/uncontrolled limits, as long as the exposed person has been made fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means. Additional details can be found in FCC OET 65.



Calculation Methodology

Centerline Communications, LLC has performed theoretical modeling of the site using a software tool, RoofMaster®, which incorporates calculation methodologies detailed in FCC OET 65. RoofMaster® uses a cylindrical model for conservative power density predictions within the near field of the antenna where the antenna pattern has not truly formed yet. Within this area power density values tend to decrease based upon an inverse distance function. At the point where it is appropriate for modeling to change from near-field calculations to far-field calculations, the power decreases inversely with the square of the distance. The modeling is based on worst-case assumptions in terms of transmitter power and duty cycle. No losses were included in the power calculations unless they were specifically provided for the project.

In OET 65, a far field model is presented to calculate the spatial peak power density. The RoofMaster® implementation of this model incorporates antenna manufacturer's horizontal and vertical pattern data to determine the power density in all directions. This model yields the power density at a single point in space. In order to determine the spatial power density for comparison to the FCC limits, the average of several points calculated within the human profile (0-6') must be conducted. RoofMaster® calculates seven power density values between 0-6' above the specified study plane and performs a linear spatial average.



Data & Results

The following table details the antennas and operating parameters for the AT&T antenna system as well as any other antenna systems at the site. This is based on antenna information provided by the client and data compiled from other sources where necessary. The data below was input into Roofmaster® to perform the theoretical exposure calculations at the Ground.

The theoretical calculations performed in Roofmaster® determine the cumulative exposure at all sample points at ground level (0-6' spatial average). The results from highest cumulative sample point at ground level surrounding the site are displayed in the table below. The contribution from directional antennas to the maximum cumulative totals varies greatly depending on location; therefore, the contribution from one antenna sector at the highest calculated exposure point may be greater or less than other sectors since sectorized directional antennas are pointed in different directions and there is not much overlapping exposure.

The contribution to the cumulative power density and % MPE for each antenna/frequency band is listed in the table. The cumulative power density and cumulative % MPE are displayed at the bottom of the table.



Maximum Calculated Cumulative Power Density (Location: approximately of site)

Antenna ID	Make / Model	Frequency Band (MHz)	Antenna Gain (dBd)	Antenna Centerline (ft)	Channel Count	TX Power/ Channel (watts)	ERP (watts)	Calculated Power Density ($\mu\text{W}/\text{cm}^2$)	General Population MPE Limit ($\mu\text{W}/\text{cm}^2$)	General Population % MPE
AT&T A 1	QUINTEL QD8616-7 V1	700	13.04	155.90	4.00	40.00	3219.44	0.02156	466.67	0.00462
AT&T A 1	QUINTEL QD8616-7 V1	1900	15.25	155.90	2.00	40.00	2680.22	0.00937	1000.00	0.00094
AT&T A 1	QUINTEL QD8616-7 V1	1900	15.25	155.90	2.00	40.00	2680.22	0.00937	1000.00	0.00094
AT&T A 1	QUINTEL QD8616-7 V1	2100	15.83	155.90	2.00	40.00	3060.41	0.01063	1000.00	0.00106
AT&T A 1	QUINTEL QD8616-7 V1	2100	15.83	155.90	2.00	40.00	3060.41	0.01063	1000.00	0.00106
AT&T A 2	NOKIA AEQK	3840	22.65	158.10	1.00	67.78	12476.75	0.27907	1000.00	0.02791
AT&T A 3	NOKIA AEQU	3450	22.65	154.00	1.00	67.78	12476.75	0.32221	1000.00	0.03222
AT&T A 4	CCI DMP65R-BU8D	700	12.25	155.90	2.00	40.00	1343.04	0.01649	466.67	0.00353
AT&T A 4	CCI DMP65R-BU8D	850	12.55	155.90	2.00	40.00	1439.10	0.01731	566.67	0.00306
AT&T A 4	CCI DMP65R-BU8D	2300	14.95	155.90	4.00	25.00	3126.08	0.02825	1000.00	0.00283
AT&T A 5	CCI OPA-65R-LCUU-H8	850	13.66	155.90	0.00	0.00	#NUM!	0.00000	566.67	0.00000
AT&T B 6	QUINTEL QD8616-7 V1	700	13.04	155.90	4.00	40.00	3219.44	0.00001	466.67	0.00000
AT&T B 6	QUINTEL QD8616-7 V1	1900	15.25	155.90	2.00	40.00	2680.22	0.00000	1000.00	0.00000
AT&T B 6	QUINTEL QD8616-7 V1	1900	15.25	155.90	2.00	40.00	2680.22	0.00000	1000.00	0.00000
AT&T B 6	QUINTEL QD8616-7 V1	2100	15.83	155.90	2.00	40.00	3060.41	0.00000	1000.00	0.00000
AT&T B 6	QUINTEL QD8616-7 V1	2100	15.83	155.90	2.00	40.00	3060.41	0.00000	1000.00	0.00000
AT&T B 7	NOKIA AEQK	3840	22.65	158.10	1.00	67.78	12476.75	0.00014	1000.00	0.00001
AT&T B 8	NOKIA AEQU	3450	22.65	154.00	1.00	67.78	12476.75	0.00014	1000.00	0.00001
AT&T B 9	CCI DMP65R-BU8D	700	12.25	155.90	2.00	40.00	1343.04	0.00000	466.67	0.00000
AT&T B 9	CCI DMP65R-BU8D	850	12.55	155.90	2.00	40.00	1439.10	0.00000	566.67	0.00000
AT&T B 9	CCI DMP65R-BU8D	2300	14.95	155.90	4.00	25.00	3126.08	0.00002	1000.00	0.00000
AT&T B 10	CCI OPA-65R-LCUU-H6	850	12.76	155.90	0.00	0.00	#NUM!	0.00000	566.67	0.00000
AT&T C 11	QUINTEL QD8616-7 V1	700	13.04	155.90	4.00	40.00	3219.44	0.00016	466.67	0.00004
AT&T C 11	QUINTEL QD8616-7 V1	1900	15.25	155.90	2.00	40.00	2680.22	0.00001	1000.00	0.00000
AT&T C 11	QUINTEL QD8616-7 V1	1900	15.25	155.90	2.00	40.00	2680.22	0.00001	1000.00	0.00000
AT&T C 11	QUINTEL QD8616-7 V1	2100	15.83	155.90	2.00	40.00	3060.41	0.00002	1000.00	0.00000
AT&T C 11	QUINTEL QD8616-7 V1	2100	15.83	155.90	2.00	40.00	3060.41	0.00002	1000.00	0.00000
AT&T C 12	NOKIA AEQK	3840	22.65	158.10	1.00	67.78	12476.75	0.00056	1000.00	0.00006
AT&T C 13	NOKIA AEQU	3450	22.65	154.00	1.00	67.78	12476.75	0.00065	1000.00	0.00006
AT&T C 14	CCI DMP65R-BU8D	700	12.25	155.90	2.00	40.00	1343.04	0.00000	466.67	0.00000
AT&T C 14	CCI DMP65R-BU8D	850	12.55	155.90	2.00	40.00	1439.10	0.00000	566.67	0.00000
AT&T C 14	CCI DMP65R-BU8D	2300	14.95	155.90	4.00	25.00	3126.08	0.00001	1000.00	0.00000
AT&T C 15	CCI OPA-65R-LCUU-H8	850	13.66	155.90	0.00	0.00	#NUM!	0.00000	566.67	0.00000
Unknown A 16	GENERIC PANEL 6FT	700	12.33	168.80	2.00	40.00	1368.01	0.02991	466.67	0.00641



Antenna ID	Make / Model	Frequency Band (MHz)	Antenna Gain (dBd)	Antenna Centerline (ft)	Channel Count	TX Power/Channel (watts)	ERP (watts)	Calculated Power Density ($\mu\text{W}/\text{cm}^2$)	General Population MPE Limit ($\mu\text{W}/\text{cm}^2$)	General Population % MPE
Unknown A 16	GENERIC PANEL 6FT	850	12.62	168.80	2.00	40.00	1462.48	0.02990	566.67	0.00528
Unknown A 17	GENERIC PANEL 6FT	1900	15.84	168.80	4.00	40.00	6139.32	0.05994	1000.00	0.00599
Unknown A 18	GENERIC PANEL 6FT	700	12.33	168.80	2.00	40.00	1368.01	0.02991	466.67	0.00641
Unknown A 18	GENERIC PANEL 6FT	850	12.62	168.80	2.00	40.00	1462.48	0.02990	566.67	0.00528
Unknown A 18	GENERIC PANEL 6FT	2100	16.39	168.80	4.00	40.00	6968.19	0.05898	1000.00	0.00590
Unknown A 19	GENERIC PANEL	3700	23.35	168.80	4.00	50.00	43254.37	0.11278	1000.00	0.01128
Unknown A 20	GENERIC PANEL	3550	8.30	168.80	4.00	5.00	135.22	0.01173	1000.00	0.00117
Unknown B 21	GENERIC PANEL 6FT	700	12.33	168.80	2.00	40.00	1368.01	0.00014	466.67	0.00003
Unknown B 21	GENERIC PANEL 6FT	850	12.62	168.80	2.00	40.00	1462.48	0.00000	566.67	0.00000
Unknown B 22	GENERIC PANEL 6FT	1900	15.84	168.80	4.00	40.00	6139.32	0.00002	1000.00	0.00000
Unknown B 23	GENERIC PANEL 6FT	700	12.33	168.80	2.00	40.00	1368.01	0.00014	466.67	0.00003
Unknown B 23	GENERIC PANEL 6FT	850	12.62	168.80	2.00	40.00	1462.48	0.00000	566.67	0.00000
Unknown B 23	GENERIC PANEL 6FT	2100	16.39	168.80	4.00	40.00	6968.19	0.00003	1000.00	0.00000
Unknown B 24	GENERIC PANEL	3700	23.35	168.80	4.00	50.00	43254.37	0.00236	1000.00	0.00024
Unknown B 25	GENERIC PANEL	3550	8.30	168.80	4.00	5.00	135.22	0.00003	1000.00	0.00000
Unknown C 26	GENERIC PANEL 6FT	700	12.33	168.80	2.00	40.00	1368.01	0.00005	466.67	0.00001
Unknown C 26	GENERIC PANEL 6FT	850	12.62	168.80	2.00	40.00	1462.48	0.00007	566.67	0.00001
Unknown C 27	GENERIC PANEL 6FT	1900	15.84	168.80	4.00	40.00	6139.32	0.00007	1000.00	0.00001
Unknown C 28	GENERIC PANEL 6FT	700	12.33	168.80	2.00	40.00	1368.01	0.00005	466.67	0.00001
Unknown C 28	GENERIC PANEL 6FT	850	12.62	168.80	2.00	40.00	1462.48	0.00007	566.67	0.00001
Unknown C 28	GENERIC PANEL 6FT	2100	16.39	168.80	4.00	40.00	6968.19	0.00004	1000.00	0.00000
Unknown C 29	GENERIC PANEL	3700	23.35	168.80	4.00	50.00	43254.37	0.00271	1000.00	0.00027
Unknown C 30	GENERIC PANEL	3550	8.30	168.80	4.00	5.00	135.22	0.00002	1000.00	0.00000
Unknown A 31	GENERIC PANEL 6FT	1900	15.84	139.70	2.00	60.00	4604.49	0.06925	1000.00	0.00693
Unknown A 32	GENERIC PANEL 6FT	600	12.33	139.70	2.00	60.00	2052.02	0.06927	400.00	0.01732
Unknown A 33	GENERIC PANEL 6FT	700	12.33	139.70	2.00	60.00	2052.02	0.06927	466.67	0.01484
Unknown A 34	GENERIC PANEL 6FT	2100	15.84	139.70	2.00	60.00	4604.49	0.06925	1000.00	0.00693
Unknown A 35	GENERIC PANEL	3700	23.55	139.70	4.00	80.00	72468.62	0.25889	1000.00	0.02589



Antenna ID	Make / Model	Frequency Band (MHz)	Antenna Gain (dBd)	Antenna Centerline (ft)	Channel Count	TX Power/Channel (watts)	ERP (watts)	Calculated Power Density ($\mu\text{W}/\text{cm}^2$)	General Population MPE Limit ($\mu\text{W}/\text{cm}^2$)	General Population % MPE
Unknown B 36	GENERIC PANEL 6FT	1900	15.84	139.70	2.00	60.00	4604.49	0.00001	1000.00	0.00000
Unknown B 37	GENERIC PANEL 6FT	600	12.33	139.70	2.00	60.00	2052.02	0.00029	400.00	0.00007
Unknown B 38	GENERIC PANEL 6FT	700	12.33	139.70	2.00	60.00	2052.02	0.00029	466.67	0.00006
Unknown B 39	GENERIC PANEL 6FT	2100	15.84	139.70	2.00	60.00	4604.49	0.00001	1000.00	0.00000
Unknown B 40	GENERIC PANEL	3700	23.55	139.70	4.00	80.00	72468.62	0.00182	1000.00	0.00018
Unknown C 41	GENERIC PANEL 6FT	1900	15.84	139.70	2.00	60.00	4604.49	0.00011	1000.00	0.00001
Unknown C 42	GENERIC PANEL 6FT	600	12.33	139.70	2.00	60.00	2052.02	0.00017	400.00	0.00004
Unknown C 43	GENERIC PANEL 6FT	700	12.33	139.70	2.00	60.00	2052.02	0.00017	466.67	0.00004
Unknown C 44	GENERIC PANEL 6FT	2100	15.84	139.70	2.00	60.00	4604.49	0.00011	1000.00	0.00001
Unknown C 45	GENERIC PANEL	3700	23.55	139.70	4.00	80.00	72468.62	0.00000	1000.00	0.00023
Unknown A 46	GENERIC PANEL 6FT	850	12.62	109.90	1.00	60.00	1096.86	0.05727	566.67	0.01011
Unknown A 47	GENERIC PANEL 6FT	850	12.62	109.90	1.00	60.00	1096.86	0.05727	566.67	0.01011
Unknown A 48	GENERIC PANEL 6FT	850	12.62	109.90	1.00	60.00	1096.86	0.05727	566.67	0.01011
Unknown A 49	GENERIC PANEL 6FT	850	12.62	109.90	1.00	60.00	1096.86	0.05727	566.67	0.01011
Unknown A 50	GENERIC PANEL 6FT	850	12.62	109.90	1.00	60.00	1096.86	0.05727	566.67	0.01011
Unknown B 51	GENERIC PANEL 6FT	850	12.62	109.90	1.00	60.00	1096.86	0.00001	566.67	0.00000
Unknown B 52	GENERIC PANEL 6FT	850	12.62	109.90	1.00	60.00	1096.86	0.00001	566.67	0.00000
Unknown B 53	GENERIC PANEL 6FT	850	12.62	109.90	1.00	60.00	1096.86	0.00001	566.67	0.00000
Unknown B 54	GENERIC PANEL 6FT	850	12.62	109.90	1.00	60.00	1096.86	0.00001	566.67	0.00000
Unknown B 55	GENERIC PANEL 6FT	850	12.62	109.90	1.00	60.00	1096.86	0.00001	566.67	0.00000
Unknown C 56	GENERIC PANEL 6FT	850	12.62	109.90	1.00	60.00	1096.86	0.00018	566.67	0.00003
Unknown C 57	GENERIC PANEL 6FT	850	12.62	109.90	1.00	60.00	1096.86	0.00018	566.67	0.00003
Unknown C 58	GENERIC PANEL 6FT	850	12.62	109.90	1.00	60.00	1096.86	0.00018	566.67	0.00003
Unknown C 59	GENERIC PANEL 6FT	850	12.62	109.90	1.00	60.00	1096.86	0.00018	566.67	0.00003
Unknown C 60	GENERIC PANEL 6FT	850	12.62	109.90	1.00	60.00	1096.86	0.00018	566.67	0.00003
							Cumulative Power Density:	1.92394 $\mu\text{W}/\text{cm}^2$	Cumulative % MPE:	0.24995%



Summary

The theoretical calculations performed for this analysis yielded cumulative power density totals in all areas at Ground that are within the allowable federal limits for public exposure to RF energy. Therefore, the site is **Compliant** with FCC rules and regulations.

Michelle Stone

Michelle Stone
RF EME Technical Writer II
Centerline Communications, LLC

EXHIBIT 6

APPLICATION FOR BUILDING PERMIT
COMMERCIAL * INDUSTRIAL * MULTI-FAMILY RESIDENTIAL
TOWN OF NEWINGTON, 131 CEDAR STREET, NEWINGTON CT 06111
TEL. 860-665-8580 FAX 860-665-8577-BUILDING DEPARTMENT
APPLICATION MUST BE FILLED OUT COMPLETELY IN INK

JOB LOCATION: 605 Willard Ave.
CONTRACTOR'S NAME McPhee Electrical TEL. NO. 677-9797 Doug Barker
CONTRACTOR'S ADDRESS: 505 Main Street
CITY Farmington STATE CT ZIP 06032 STATE REG. NO. _____
OWNER'S NAME Marcus Group TEL. NO. 860-643-0440 ext: 222
OWNER'S ADDRESS 275 New State Road, ~~Newington~~ Manchester CT. 06
DETAILED DESCRIPTION OF WORK TO BE PERFORMED: Installation of a telecommunications
monopole, associated equipment, buildings, ~~generator, and power~~ Telephone
(GENERATOR / POWER AND ALL RELATED ELECTRICAL WORK NOT INCLUDED)
TOTAL VALUE OF WORK TO BE PERFORMED: \$ 203,000
SIZE OF STRUCTURE TO BE BUILT: WIDTH _____ DEPTH _____ AREA _____ (SQ.FT.) 180' High

T.P.Z./Z.B.A. APPROVAL: 8-24 Approval DATE: _____

ALL WORK COVERED BY THIS APPLICATION HAS BEEN AUTHORIZED BY THE (OWNER) OR (AGENT) OF THIS PROPERTY AND WILL BE DONE ACCORDING TO STATE CODES AND REGULATIONS. **NO WORK SHALL BE STARTED UNTIL THE BUILDING DEPARTMENT HAS RECEIVED THIS APPLICATION AND HAS ISSUED A BUILDING PERMIT. ALL PERMITS APPROVED SUBJECT TO FIELD INSPECTIONS.**

Signed Jeffrey York ^{Auth. Agent} for Marcus Group 10-29-01 860-916-4380
(applicant) (date) (telephone no.)

Please print name Jeffrey A. York

BUILDING PERMITS PAID FOR: BUILDING ☒ HEATING & AIR COND. _____
ELECTRICAL _____ PLUMBING _____

BUILDING PERMIT FEE \$ Paid under
OCCUPANCY FEE \$ OK # 1127 and
ZONING FEE: \$ OK # 1162 10/29/01
TOTAL PAID \$ _____

REC'D BY: _____
DATE: _____

APPROVED BY: [Signature]
DATE: 10/29/01
PERMIT NO.: 62860



Daniel F. Caruso
Chairman

STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: siting.council@ct.gov

Internet: ct.gov/csc

October 1, 2007

Steven L. Levine
Real Estate Consultant
New Cingular Wireless PCS, LLC
500 Enterprise Drive
Rocky Hill, CT 06067

#22
5403 - NEWINGTON
1048 > UNION
5453 - WEST HARTFORD
1154 - VERNON
1082 - VERNON

RE: **EM-CING-094-145-145-146-155-070914** – New Cingular Wireless PCS, LLC notice of intent to modify existing telecommunications facilities located at 605 Willard Avenue, Newington; 107 Stickney Hill Road, Union; 1050 Buckley Highway, Union; 197 South Street, Vernon; and 3114 Albany Avenue, West Hartford, Connecticut.

Dear Mr. Levine:

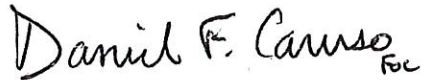
At a public meeting held on September 25, 2007, the Connecticut Siting Council (Council) acknowledged your notice to modify these existing telecommunications facilities, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies.

The proposed modifications are to be implemented as specified here and in your notice dated September 12, 2007, including the placement of all necessary equipment and shelters within the tower compounds. The modifications are in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to existing facility sites that would not increase tower heights, extend the boundaries of the tower sites, increase noise levels at the tower site boundaries by six decibels, and increase the total radio frequencies electromagnetic radiation power densities measured at the tower site boundaries to or above the standard adopted by the State Department of Environmental Protection pursuant to General Statutes § 22a-162. These facilities have also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on these towers.

This decision is under the exclusive jurisdiction of the Council. Please be advised that the validity of this action shall expire one year from the date of this letter. Any additional change to any of these facilities will require explicit notice to this agency pursuant to Regulations of Connecticut State Agencies Section 16-50j-73. Such notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin 65. Any deviation from this format may result in the Council implementing enforcement proceedings pursuant to General Statutes § 16-50u including, without limitation, imposition of expenses resulting from such failure and of civil penalties in an amount not less than one thousand dollars per day for each day of construction or operation in material violation.

Thank you for your attention and cooperation.

Very truly yours,

A handwritten signature in cursive script that reads "Daniel F. Caruso". The signature is written in dark ink and is positioned above the printed name.

Daniel F. Caruso
Chairman

DFC/MP/cm

c: The Honorable Rodney Burt Mortensen, Mayor, Town of Newington
Edmund Meehan, Town Planner, Town of Newington
The Honorable Ellen L. Marmer, Mayor, Town of Vernon
Gene F. Bolles, Zoning Enforcement Officer, Town of Vernon
The Honorable Scott Slifka, Mayor, Town of West Hartford
Mila Limson, Town Planner, Town of West Hartford
The Honorable Thomas L. Fitzgerald, First Selectman, Town of Union
Planning & Zoning Official, Town of Union
Marcus Group
Cox Communications
New England Site Management
Crown Castle
Marlin Tower

EXHIBIT 7

UPS CampusShip: View/Print Label

1. **Ensure there are no other shipping or tracking labels attached to your package.** Select the Print button on the print dialog box that appears. Note: If your browser does not support this function select Print from the File menu to print the label.
2. **Fold the printed label at the solid line below.** Place the label in a UPS Shipping Pouch. If you do not have a pouch, affix the folded label using clear plastic shipping tape over the entire label.

3. GETTING YOUR SHIPMENT TO UPS**Customers with a Daily Pickup**

Your driver will pickup your shipment(s) as usual.

Customers without a Daily Pickup

Take your package to any location of The UPS Store®, UPS Access Point(TM) location, UPS Drop Box, UPS Customer Center, Staples® or Authorized Shipping Outlet near you. Items sent via UPS Return Services(SM) (including via Ground) are also accepted at Drop Boxes. To find the location nearest you, please visit the Resources area of CampusShip and select UPS Locations.

Schedule a same day or future day Pickup to have a UPS driver pickup all your CampusShip packages.


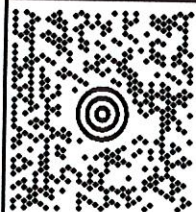
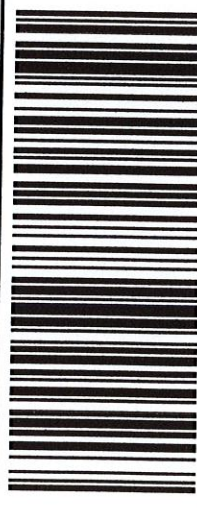

Hand the package to any UPS driver in your area.

UPS Access Point™
ADVANCE AUTO PARTS STORE 2890
4676 PRINCESS ANNE RD
VIRGINIA BEACH, VA 23462

UPS Access Point™
CVS STORE # 4935
4500 PRINCESS ANNE RD
VIRGINIA BEACH, VA 23462

UPS Access Point™
THE UPS STORE
2085 LYNNHAVEN PKWY
VIRGINIA BEACH, VA 23456

FOLD HERE

1 LBS 1 OF 1 DWT: 12.9,1 SHIP TO: ALLISON HEBEL 2155887035 CENTERLINE COMMUNICATIONS 768 SOUTHLEAF DR VIRGINIA BEACH VA 23462-4748 NEWINGTON PUBLIC SCHOOLS NEWINGTON HIGH SCHOOL 200 GARFIELD STREET NEWINGTON CT 06111-2844	CT 061 9-02  	UPS GROUND TRACKING #: 1Z 9Y4 503 03 3025 1338 	BILLING: P/P  <small>CS 22.0.18. WNTNV50 13.0A 03/2022*</small>
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UPS CampusShip: View/Print Label

1. **Ensure there are no other shipping or tracking labels attached to your package.** Select the Print button on the print dialog box that appears. Note: If your browser does not support this function select Print from the File menu to print the label.
2. **Fold the printed label at the solid line below.** Place the label in a UPS Shipping Pouch. If you do not have a pouch, affix the folded label using clear plastic shipping tape over the entire label.

3. **GETTING YOUR SHIPMENT TO UPS****Customers with a Daily Pickup**

Your driver will pickup your shipment(s) as usual.

Customers without a Daily Pickup

Take your package to any location of The UPS Store®, UPS Access Point(TM) location, UPS Drop Box, UPS Customer Center, Staples® or Authorized Shipping Outlet near you. Items sent via UPS Return Services(SM) (including via Ground) are also accepted at Drop Boxes. To find the location nearest you, please visit the Resources area of CampusShip and select UPS Locations.

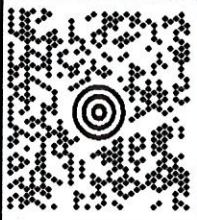

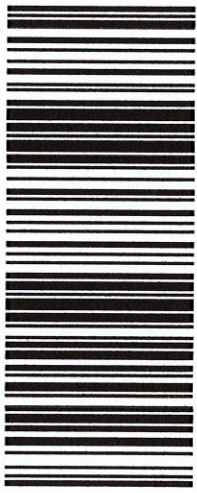

Schedule a same day or future day Pickup to have a UPS driver pickup all your CampusShip packages.
Hand the package to any UPS driver in your area.

UPS Access Point™
ADVANCE AUTO PARTS STORE 2890
4676 PRINCESS ANNE RD
VIRGINIA BEACH, VA 23462

UPS Access Point™
CVS STORE # 4935
4500 PRINCESS ANNE RD
VIRGINIA BEACH, VA 23462

UPS Access Point™
THE UPS STORE
2085 LYNNHAVEN PKWY
VIRGINIA BEACH, VA 23456

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1 LBS DWT: 12,9,1		1 OF 1	
ALLISON HEBEL 2155887035 CENTERLINE COMMUNICATIONS 768 SOUTHLEAF DR VIRGINIA BEACH VA 23462-4748		SHIP TO: JACQUELINE HALL AMERICAN TOWER CORPORATION 10 PRESIDENTIAL WAY WOBURN MA 01801-1053	
		MA 018 9-04 	
UPS GROUND TRACKING #: 1Z 9Y4 503 03 3699 9940			
BILLING: P/P		 CS 22.0.18. WNTNV50 13.0A 03/2022*	

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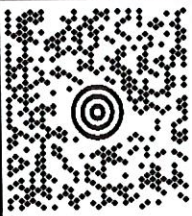

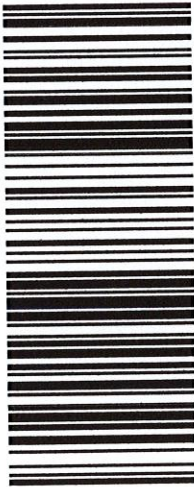

Customers without a Daily Pickup
Take your package to any location of The UPS Store®, UPS Access Point(TM) location, UPS Drop Box, UPS Customer Center, Staples® or Authorized Shipping Outlet near you. Items sent via UPS Return Services(SM) (including via Ground) are also accepted at Drop Boxes. To find the location nearest you, please visit the Resources area of CampusShip and select UPS Locations.
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UPS Access Point™
ADVANCE AUTO PARTS STORE 2890
4676 PRINCESS ANNE RD
VIRGINIA BEACH ,VA 23462

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4500 PRINCESS ANNE RD
VIRGINIA BEACH ,VA 23462

UPS Access Point™
THE UPS STORE
2085 LYNNHAVEN PKWY
VIRGINIA BEACH ,VA 23456

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1 LBS		1 OF 1	
ALLISON HEBEL 2155887035 CENTERLINE COMMUNICATIONS 768 SOUTHLEAF DR VIRGINIA BEACH VA 23462-4748		DWT: 12.9,1	
SHIP TO: TOWN MANAGER TOWN OF NEWINGTON 200 GARFIELD STREET NEWINGTON CT 06111-2844			
		CT 061 9-02 	
UPS GROUND			
TRACKING #: 1Z 9Y4 503 03 3694 1555 			
BILLING: P/P		 CS 22.0.18. WNTNV50 13.0A 03/2022*	

UPS CampusShip: View/Print Label

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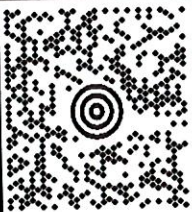

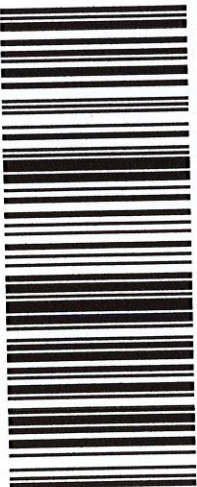

Customers without a Daily Pickup
Take your package to any location of The UPS Store®, UPS Access Point(TM) location, UPS Drop Box, UPS Customer Center, Staples® or Authorized Shipping Outlet near you. Items sent via UPS Return Services(SM) (including via Ground) are also accepted at Drop Boxes. To find the location nearest you, please visit the Resources area of CampusShip and select UPS Locations.
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Hand the package to any UPS driver in your area.

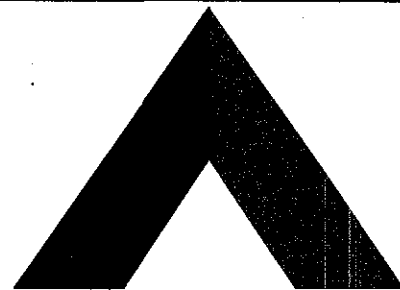
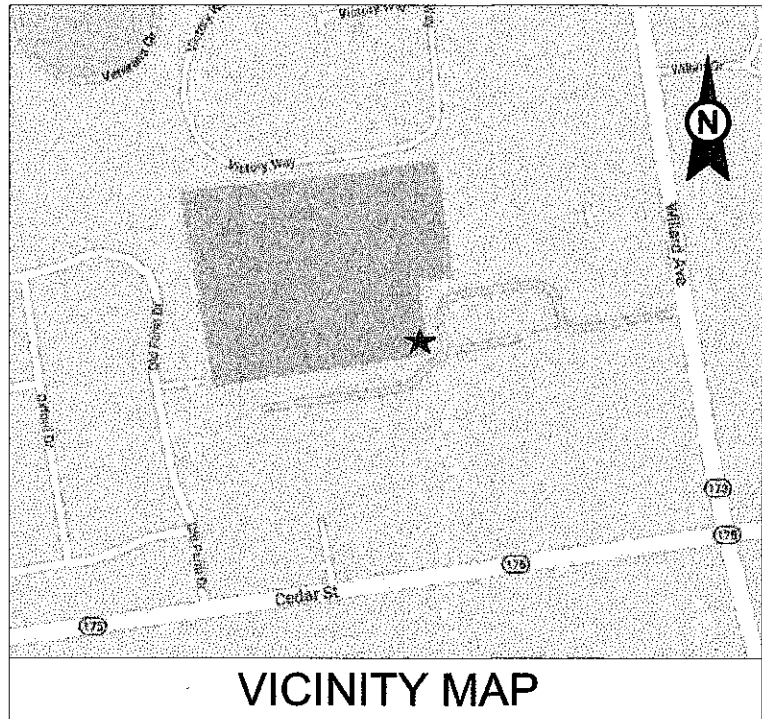
UPS Access Point™
ADVANCE AUTO PARTS STORE 2890
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UPS Access Point™
THE UPS STORE
2085 LYNNHAVEN PKWY
VIRGINIA BEACH ,VA 23456

FOLD HERE

1 LBS DWT: 12.9,1		1 OF 1	
SHIP TO: TOWN PLANNER TOWN OF NEWINGTON 200 GARFIELD STREET NEWINGTON CT 06111-2844			
		CT 061 9-02 	
UPS GROUND TRACKING #: 1Z 9Y4 503 03 2097 6164 			
BILLING: P/P		 CS 22.0.1B. WNTNV50 13.0A 03/2022*	



AMERICAN TOWER®

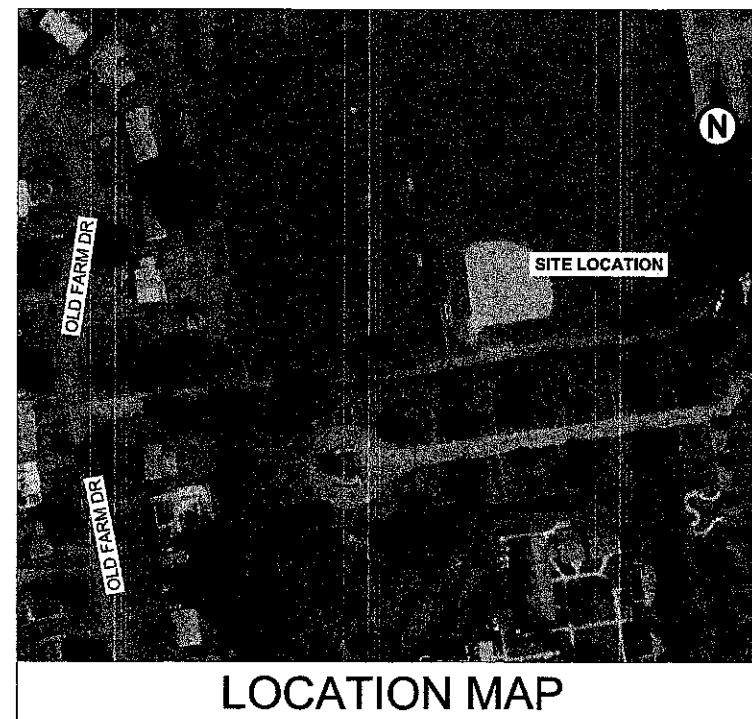
ATC SITE NAME: NEWINGTON CT
ATC SITE NUMBER: 370627
AT&T PACE NUMBERS: MRCTB051644,
MRCTB051590,
MRCTB05267


AT&T SITE ID: CTV5403
AT&T FA CODE:10071165
AT&T SITE NAME: NEWINGTON CENTRAL
SITE ADDRESS: 605 WILLARD AVE.

NEWINGTON, CT 06111-0000

AT&T

5G NR RADIO // 5G NR 1S CBAND AMENDMENT PLAN



COMPLIANCE CODE	PROJECT SUMMARY	PROJECT DESCRIPTION	SHEET INDEX				
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 IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES. 1. INTERNATIONAL BUILDING CODE (IBC) 2. NATIONAL ELECTRIC CODE (NEC) 3. LOCAL BUILDING CODE 4. CITY/COUNTY ORDINANCES	<u>SITE ADDRESS:</u> 605 WILLARD AVE. NEWINGTON, CT 06111-0000 COUNTY: HARTFORD <u>GEOGRAPHIC COORDINATES:</u> LATITUDE: 41.69837348 LONGITUDE: -72.73713756 GROUND ELEVATION: 103' AMSL	THE PROPOSED PROJECT INCLUDES MODIFYING GROUND BASED AND TOWER MOUNTED EQUIPMENT AS INDICATED PER BELOW: <u>TOWER WORK:</u> REMOVE (6) ANTENNA(s), (3) TMA(s), (1) DC6 SQUID, (6) 1-5/8" COAX CABLE(s) AND (1) 3/8" RET CONTROL CABLE INSTALL MOUNT MODIFICATIONS, (9) ANTENNA(s), (1) DC9 SQUID, (1) 24SM .405" FIBER CABLE, (1) 1.15" DC CABLE AND (1) 2" CONDUIT EXISTING (6) ANTENNA(s), (15) RRH(s), (2) DC 6 SQUID(s), (6) 0.82" DC CABLE(s), (2) .92" DC CABLE(s), (1) 24SM .405" FIBER TRUNK, (1) 36SM .405" FIBER TRUNK AND (4) 2" CONDUIT(s) TO REMAIN <u>GROUND WORK:</u> REMOVE (6) DIPLEXER(s)	SHEET NO:	DESCRIPTION:	REV:	DATE:	BY:
	<u>PROJECT TEAM</u> <u>TOWER OWNER:</u> AMERICAN TOWER 10 PRESIDENTIAL WAY WOBURN, MA 01801 <u>ENGINEER:</u> HUDSON DESIGN GROUP, LLC. 45 BEECHWOOD DRIVE NORTH ANDOVER, MA 01845 <u>PROPERTY OWNER:</u> TOWN OF NEWINGTON 605 WILLARD AVE. NEWINGTON,CT 06111-0000	<u>PROJECT NOTES</u> 1. THE FACILITY IS UNMANNED. 2. A TECHNICIAN WILL VISIT THE SITE APPROXIMATELY ONCE A MONTH FOR ROUTINE INSPECTION AND MAINTENANCE. 3. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT LAND DISTURBANCE OR EFFECT OF STORM WATER DRAINAGE. 4. NO SANITARY SEWER, POTABLE WATER OR TRASH DISPOSAL IS REQUIRED. 5. HANDICAP ACCESS IS NOT REQUIRED. 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 EXISTING WIRELESS TOWER THAT INVOLVES THE COLLOCATION, REMOVAL, AND/OR REPLACEMENT OF TRANSMISSION EQUIPMENT THAT IS NOT A SUBSTANTIAL CHANGE UNDER CFR § 1.61000 (B)(7).	G-001	TITLE SHEET	2	05/02/22	BB
			G-002	GENERAL NOTES	2	05/02/22	BB
	<u>UTILITY COMPANIES</u> POWER COMPANY: EVERSOURCE ENERGY/56002. PHONE: 888.783.6617 TELEPHONE COMPANY: N/A PHONE: N/A	<u>PROJECT LOCATION DIRECTIONS</u> FROM DOWNTOWN HARTFORD START OUT GOING SOUTH ON MAIN ST TOWARD WELLS ST. TURN LEFT ONTO SHELTON ST. TURN SLIGHT LEFT ONTO RAMP. MERGE ONTO WHITEHEAD HWY E. MERGE ONTO I-91 S TOWARD NEW HAVEN. MERGE ONTO US-5 S/CT-15 S VIA EXIT 28 TOWARD BERLIN TPKE/WETHERSFIELD/NEWINGTON. TAKE THE CT-175 E EXIT TOWARD WETHERSFIELD. TURN LEFT ONTO E CEDAR ST/CT-175. TURN RIGHT ONTO OLD FARM DR. 60 OLD FARM DR IS ON THE RIGHT.	C-101	DETAILED SITE PLAN	2	05/02/22	BB
C-201			TOWER ELEVATION	2	05/02/22	BB	
C-401			RF SCHEDULE AND ANTENNA INSTALLATION	2	05/02/22	BB	
C-501			CONSTRUCTION DETAILS	2	05/02/22	BB	
 Know what's below. Call before you dig.		E-501	GROUNDING DETAILS	2	05/02/22	BB	
		R-601	SUPPLEMENTAL				
		R-602	SUPPLEMENTAL				
		R-603	SUPPLEMENTAL				
		R-604	SUPPLEMENTAL				
		R-605-607	MOUNT MODIFICATION SHEETS				
			AT&T CX SCOPING NOTES:				
			EXISTING (1) DC6-48-60-0-8F (3) 0.39" FIBER TRUNKS, (5) 0.78" 8AWG6 CABLES, (6) 1-5/8" COAX CABLES AND (1) 3/8" RET CONTROL CABLE (TO BE REMOVED)				
			PROPOSED (1) DC9-48-60-24-8C-EV (3) 0.40" FIBER CABLE, (6) 0.82" 8AWG 6 CABLES (1) 1.15" CABLE AND (2) 2" CONDUITS				



45 BEECHWOOD DRIVE
N. ANDOVER, MA 01845
TEL: (978) 557-5553
FAX: (978) 336-5586

REV.	DESCRIPTION	BY	DATE
A	PRELIM	VS	03/04/22
0	FINALS	BB	03/21/22
1	FINALS REVISED	TR	04/25/22
2	CONSTRUCTION FINAL	BB	05/02/22

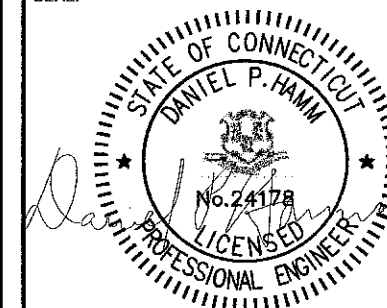
ATC SITE NUMBER:
370627

ATC SITE NAME:
NEWINGTON CT

AT&T SITE NAME:
NEWINGTON CENTRAL

SITE ADDRESS:
605 WILLARD AVE.
NEWINGTON, CT 06111-0000

SEAL:



DATE DRAWN:	11/22/21
ATC JOB NO:	13682696_D1
CUSTOMER ID:	CTV5403
CUSTOMER #:	10071165

TITLE SHEET

SHEET NUMBER:	REVISION:
G-001	2

GENERAL CONSTRUCTION NOTES:

1. 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)

B. 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

E. TOWER LIGHTING

F. GENERATORS & LIQUID PROPANE TANK

G. ANTENNA STANDARD BRACKETS, FRAMES AND PIPES FOR MOUNTING

H. ANTENNAS (INSTALLED BY OTHERS)

I. TRANSMISSION LINE

J. TRANSMISSION LINE JUMPERS

K. TRANSMISSION LINE CONNECTORS WITH WEATHERPROOFING KITS

L. TRANSMISSION LINE GROUND KITS

M. HANGERS

N. HOISTING GRIPS

O. BTS EQUIPMENT
2. 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 PERMITS.
3. ALL WORK SHALL CONFORM TO ALL CURRENT APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING ANSI/EIA/TA-222, AND COMPLY WITH ATC CONSTRUCTION SPECIFICATIONS.
4. CONTRACTOR SHALL CONTACT LOCAL 811 FOR IDENTIFICATION OF UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED INSPECTIONS.
6. 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.
7. DO NOT CHANGE SIZE OR SPACING OF STRUCTURAL ELEMENTS.
8. DETAILS SHOWN ARE TYPICAL; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
9. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
10. CONTRACTOR SHALL BRACE STRUCTURES UNTIL ALL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: LATERAL BRACING, ANCHOR BOLTS, ETC.
11. CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES, GROUNDS DRAINS, DRAIN PIPES, VENTS, ETC. BEFORE COMMENCING WORK.
12. 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.
13. EACH CONTRACTOR SHALL COOPERATE WITH THE AT&T REP, AND COORDINATE HIS WORK WITH THE WORK OF OTHERS.
14. 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.
15. ALL CABLE/CONDUIT ENTRY/EXIT PORTS SHALL BE WEATHERPROOFED DURING INSTALLATION USING A SILICONE SEALANT.
16. WHERE EXISTING CONDITIONS DO NOT MATCH THOSE SHOWN IN THIS PLAN SET, CONTRACTOR SHALL NOTIFY THE AT&T REP AND ENGINEER OF RECORD IMMEDIATELY.
17. CONTRACTOR SHALL ENSURE ALL SUBCONTRACTORS ARE PROVIDED WITH A COMPLETE AND CURRENT SET OF DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.
18. CONTRACTOR SHALL REMOVE ALL RUBBISH AND DEBRIS FROM THE SITE AT THE END OF EACH DAY.
19. CONTRACTOR SHALL COORDINATE WORK SCHEDULE WITH AMERICAN TOWER CORPORATION (ATC) AND TAKE PRECAUTIONS TO MINIMIZE IMPACT AND DISRUPTION OF OTHER OCCUPANTS OF THE FACILITY.
20. CONTRACTOR SHALL FURNISH AT&T AND AMERICAN TOWER CORPORATION (ATC) WITH A PDF MARKED UP AS-BUILT SET OF DRAWINGS UPON COMPLETION OF WORK.
21. 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 ITEMS PROVIDED.
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 THE CONTRACTOR.
23. CONTRACTOR SHALL INSTALL ALL SITE SIGNAGE IN ACCORDANCE WITH AT&T SPECIFICATIONS AND REQUIREMENTS.
24. CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS TO AT&T FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
25. ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND LOCATED ACCORDING TO AT&T SPECIFICATIONS, AND AS SHOWN IN THESE PLANS.
26. 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.
27. 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 APPROVAL.
28. 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.
29. 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 NEGLIGENCE ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, OR BY THE ELEMENTS DUE TO NEGLIGENCE 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.
30. 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.
31. 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 AS SPECIFIED.
32. AT&T FURNISHED EQUIPMENT SHALL BE PICKED-UP 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 RESPONSIBLE 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 ARCHITECT/ENGINEER.
- STRUCTURAL STEEL NOTES:
1. STRUCTURAL STEEL SHALL CONFORM TO THE LATEST EDITION OF THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS."
2. 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 OTHERWISE.

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 MEMBERS

E. ASTM F-1554 07 - ALL ANCHOR BOLTS, UNLESS NOTED OTHERWISE
3. 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.
4. 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 MANUFACTURER'S RECOMMENDATIONS.
5. DO NOT DRILL HOLES THROUGH STRUCTURAL STEEL MEMBERS EXCEPT AS SHOWN AND DETAILED ON STRUCTURAL DRAWINGS.
6. CONNECTIONS:
- A. ALL WELDING TO BE PERFORMED BY AWS CERTIFIED WELDERS AND CONDUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AWS WELDING CODE D1.1.

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

- 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.
- D. 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 D1.1, UNLESS NOTED OTHERWISE.
- F. MINIMUM WELD SIZE TO BE 0.1875 INCH FILLET WELDS, UNLESS NOTED OTHERWISE.
- G. PRIOR TO FIELD WELDING GALVANIZING 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.
- H. THE CONTRACTOR SHALL PROVIDE ADEQUATE SHORING AND/OR BRACING WHERE REQUIRED DURING CONSTRUCTION UNTIL ALL CONNECTIONS ARE COMPLETE.
- I. ANY FIELD CHANGES OR SUBSTITUTIONS SHALL HAVE PRIOR APPROVAL FROM THE ENGINEER, AND T- MOBILE PROJECT MANAGER IN WRITING

SPECIAL CONSTRUCTION
ANTENNA INSTALLATION NOTES:

1. WORK INCLUDED:
- A. ANTENNA AND COAXIAL CABLES ARE FURNISHED BY AT&T UNDER 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 PERSONNEL.

B. 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(FDR) 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.

F. 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:
2. ALL EXTERIOR #8 GREEN GROUND WIRE "DAISY CHAIN" CONNECTIONS ARE TO BE WEATHER SEALED WITH RFS CONNECTORS/SPLICE WEATHERPROOFING KIT #221213 OR EQUAL.
3. ALL COAXIAL CABLE GROUNDING KITS ARE TO BE INSTALLED ON STRAIGHT RUNS OF COAXIAL CABLE (NOT WITHIN BENDS).

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.



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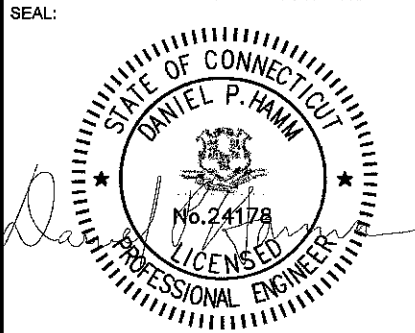
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<div>△</div> 0	FINALS	BB	03/21/22
<div>△</div> 1	FINALS REVISED	TR	04/25/22
<div>△</div> 2	CONSTRUCITON FINAL	BB	05/02/22
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ATC SITE NUMBER:
370627

ATC SITE NAME:
NEWINGTON CT

AT&T SITE NAME:
NEWINGTON CENTRAL

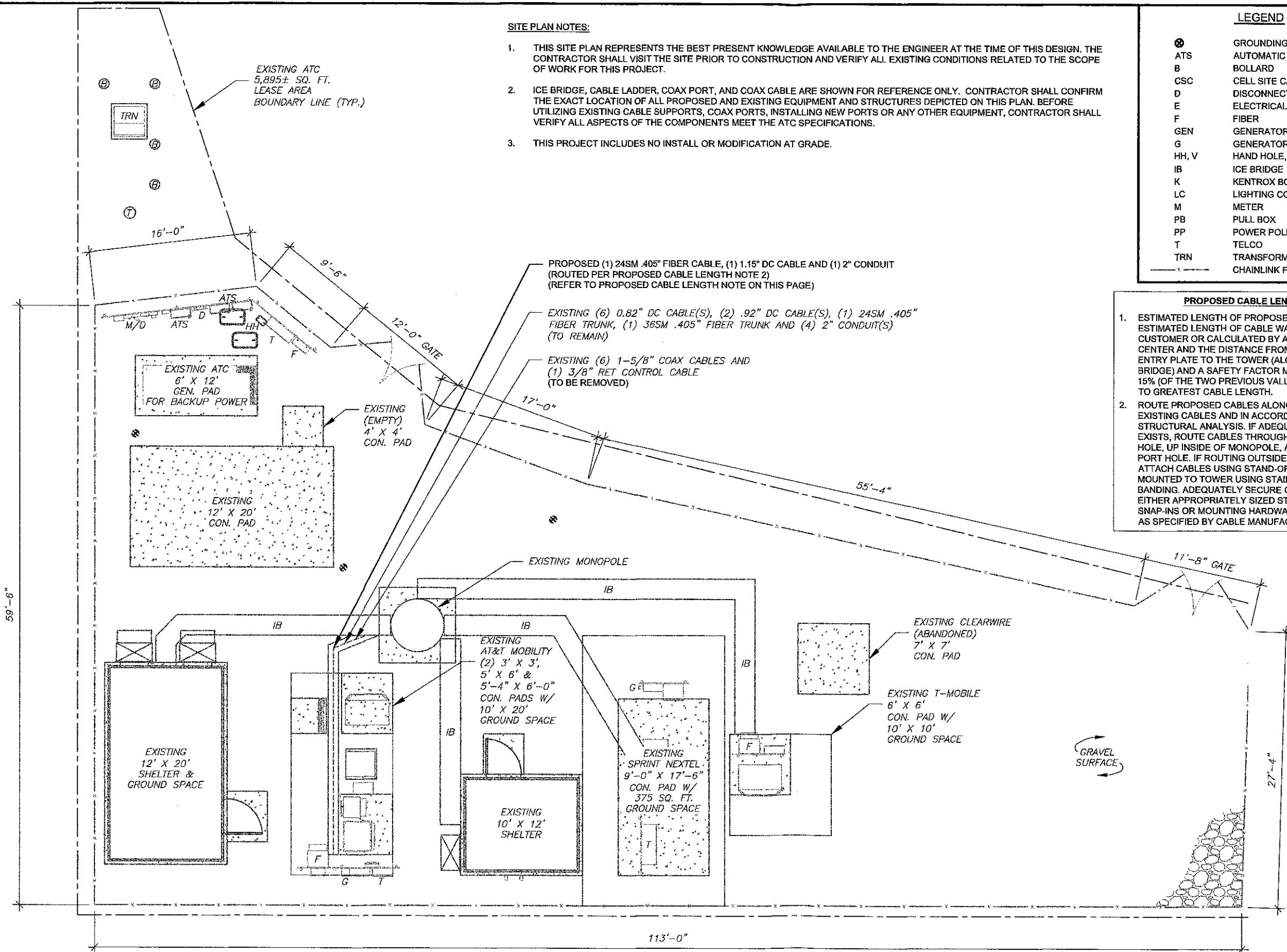
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DATE DRAWN:	11/22/21
ATC JOB NO:	13682696_D1
CUSTOMER ID:	CTV5403
CUSTOMER #:	10071165

GENERAL NOTES

SHEET NUMBER: G-002	REVISION: 2
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- SITE PLAN NOTES:**
1. THIS SITE PLAN REPRESENTS THE BEST PRESENT KNOWLEDGE AVAILABLE TO THE ENGINEER AT THE TIME OF THIS DESIGN. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO CONSTRUCTION AND VERIFY ALL EXISTING CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT.
 2. ICE BRIDGE, CABLE LADDER, COAX PORT, AND COAX CABLE ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL CONFIRM THE EXACT LOCATION OF ALL PROPOSED AND EXISTING EQUIPMENT AND STRUCTURES DEPICTED ON THIS PLAN. BEFORE UTILIZING EXISTING CABLE SUPPORTS, COAX PORTS, INSTALLING NEW PORTS OR ANY OTHER EQUIPMENT, CONTRACTOR SHALL VERIFY ALL ASPECTS OF THE COMPONENTS MEET THE ATC SPECIFICATIONS.
 3. THIS PROJECT INCLUDES NO INSTALL OR MODIFICATION AT GRADE.

LEGEND	
⊗	GROUNDING TEST WELL
ATS	AUTOMATIC TRANSFER SWITCH
B	BOLLARD
CSC	CELL SITE CABINET
D	DISCONNECT
E	ELECTRICAL
F	FIBER
GEN	GENERATOR
G	GENERATOR RECEPTACAL
HH, V	HAND HOLE, VAULT
IB	ICE BRIDGE
K	KENTROX BOX
LC	LIGHTING CONTROL
M	METER
PB	PULL BOX
PP	POWER POLE
T	TELCO
TRN	TRANSFORMER
— x —	CHAINLINK FENCE

- PROPOSED CABLE LENGTH:**
1. ESTIMATED LENGTH OF PROPOSED CABLE IS **160'±**. ESTIMATED LENGTH OF CABLE WAS PROVIDED BY CUSTOMER OR CALCULATED BY ADDING THE RAD CENTER AND THE DISTANCE FROM THE SHELTER ENTRY PLATE TO THE TOWER (ALONG THE ICE BRIDGE) AND A SAFETY FACTOR MEASUREMENT OF 15% (OF THE TWO PREVIOUS VALUES), CDS DEFER TO GREATEST CABLE LENGTH.
 2. ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. IF ADEQUATE SPACE EXISTS, ROUTE CABLES THROUGH ENTRY PORT HOLE, UP INSIDE OF MONOPOLE, AND THROUGH EXIT PORT HOLE. IF ROUTING OUTSIDE THE MONOPOLE, ATTACH CABLES USING STAND-OFF ADAPTERS MOUNTED TO TOWER USING STAINLESS STEEL BANDING. ADEQUATELY SECURE CABLES USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER.

1 DETAILED SITE PLAN

GRAPHIC SCALE
10 0 5 10
(IN FEET)
1 UNIT = 10 FEET

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ATC SITE NAME:
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AT&T SITE NAME:
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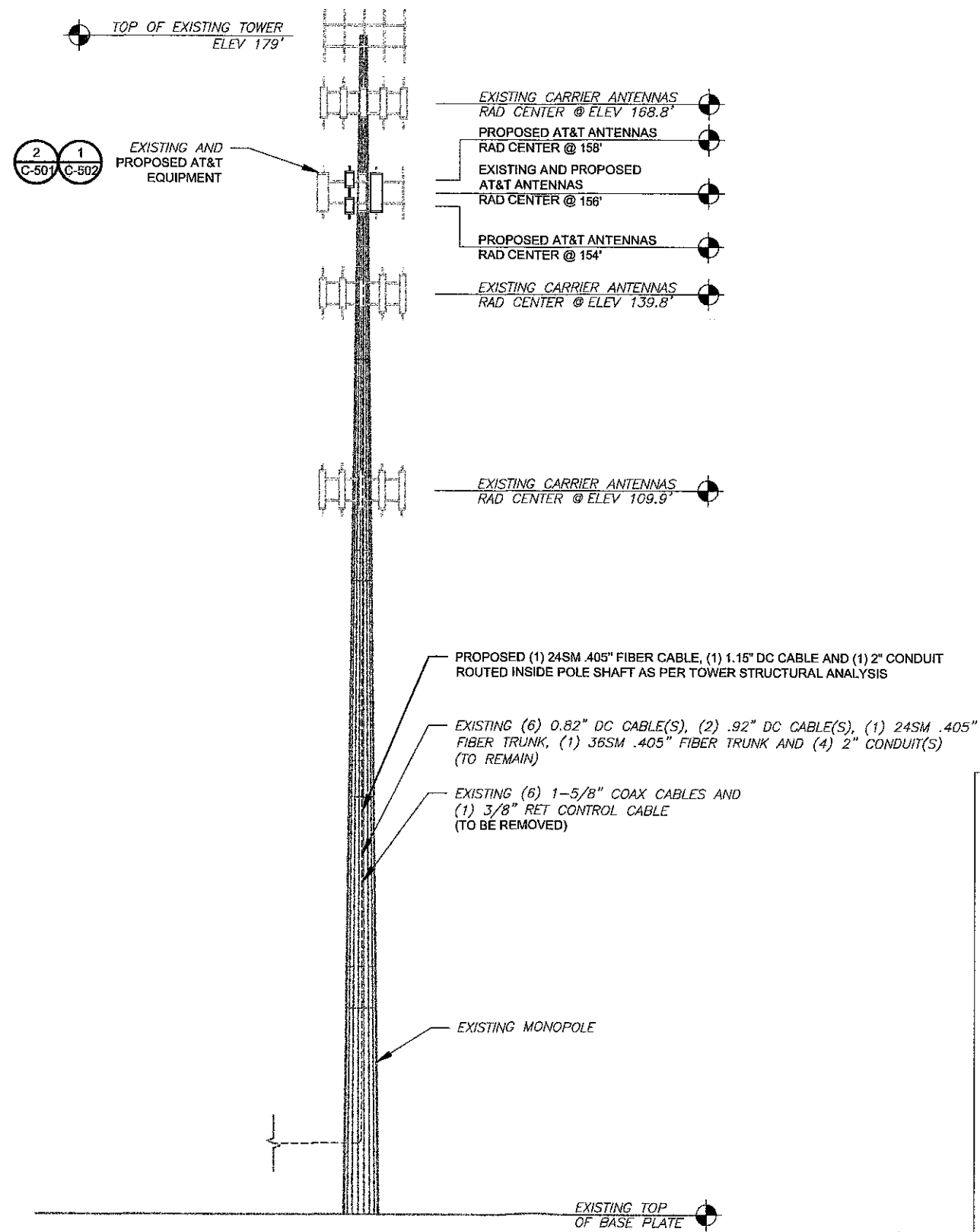
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DATE DRAWN:	11/22/21
ATC JOB NO:	13682696_D1
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CUSTOMER #:	10071165

DETAILED SITE PLAN

SHEET NUMBER: C-101	REVISION: 2
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1 TOWER ELEVATION
SCALE: N.T.S.

PER MOUNT ANALYSIS COMPLETED BY TELAMON, DATED 02/28/22, 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.

- TOWER NOTE:**
- 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.
 - ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. IF ADEQUATE SPACE EXISTS, ROUTE CABLES THROUGH ENTRY PORT HOLE, UP INSIDE OF MONOPOLE, AND THROUGH EXIT PORT HOLE. IF ROUTING OUTSIDE THE MONOPOLE, ATTACH CABLES USING STAND-OFF ADAPTERS MOUNTED TO TOWER USING STAINLESS STEEL BANDING. ADEQUATELY SECURE CABLES USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER.
 - 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.



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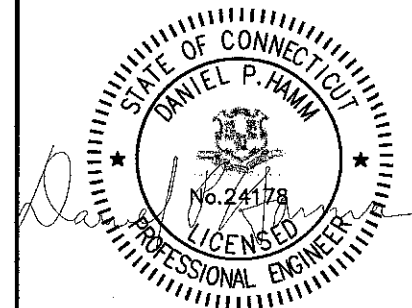
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SITE ADDRESS:
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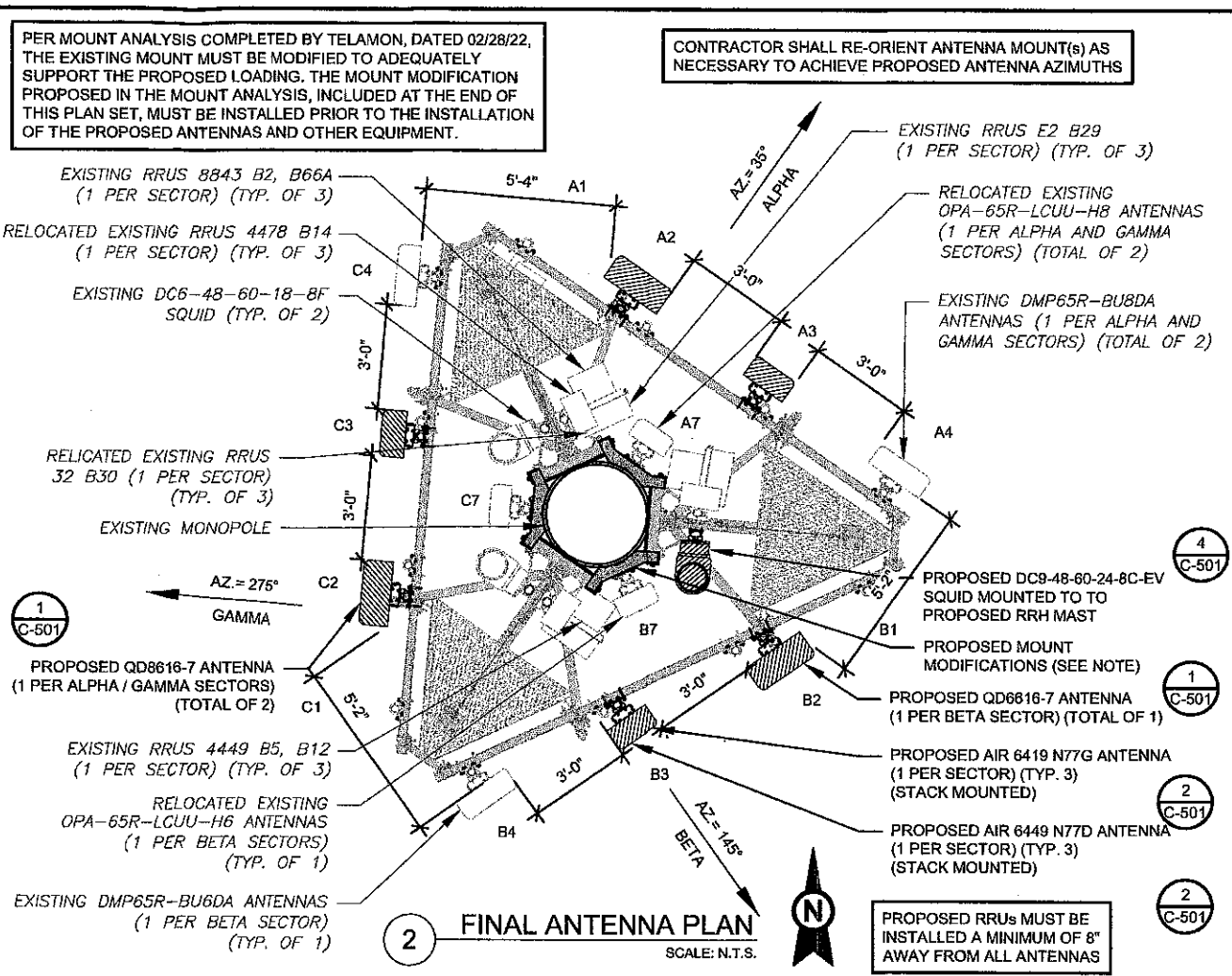
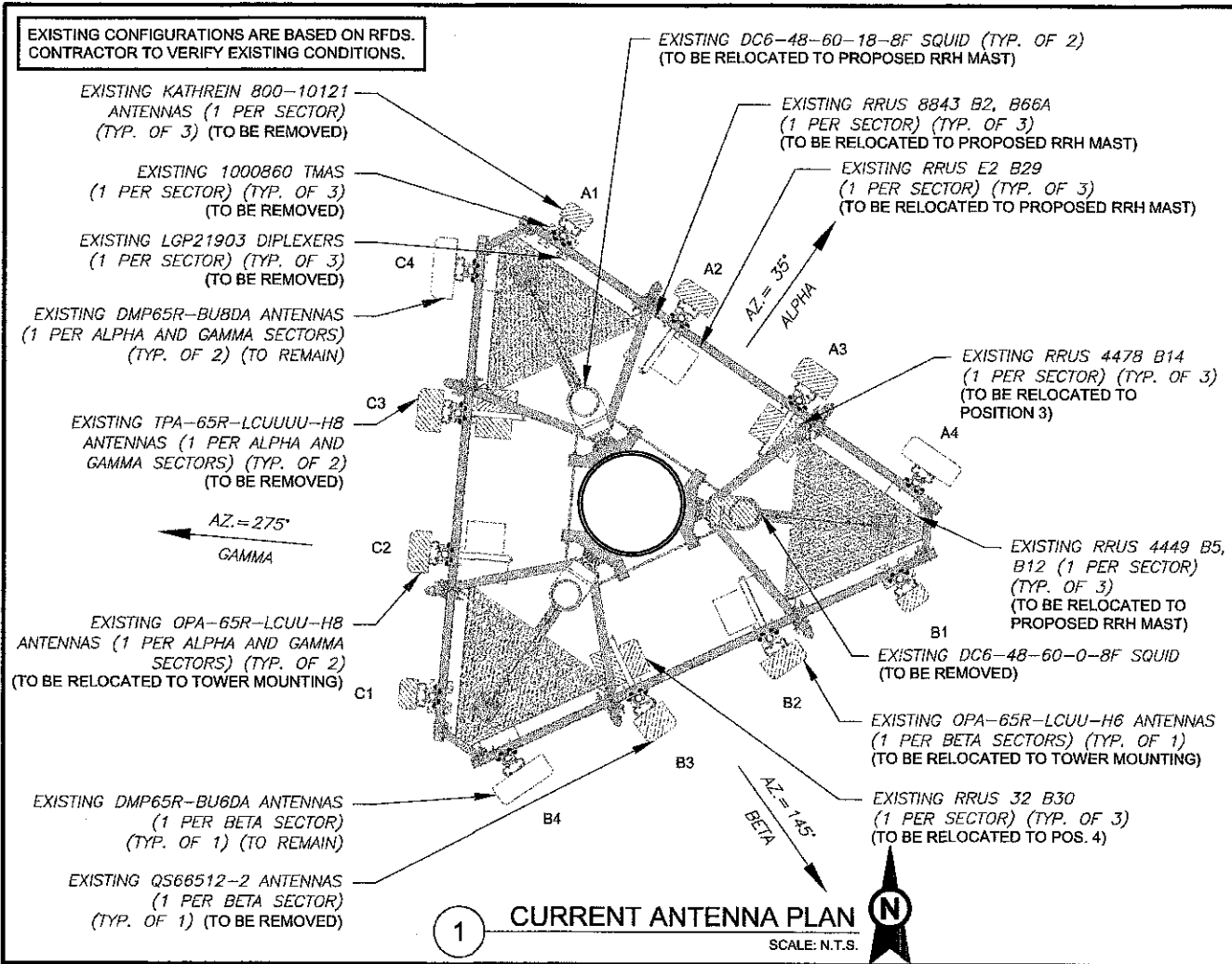


DATE DRAWN:	11/22/21
ATC JOB NO:	13682896_D1
CUSTOMER ID:	CTV5403
CUSTOMER #:	10071165

TOWER ELEVATION

SHEET NUMBER:
C-201

REVISION:
2



EXISTING ANTENNA SCHEDULE								
LOCATION			ANTENNA SUMMARY			NON ANTENNA SUMMARY		
SECTOR	RAD	AZ	POS	ANTENNA	BAND	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS
ALPHA	156'	35°	A1	800-10121	UMTS 850	RMV	LGP21903-DIPLEXERS	RMV
			A2	OPA-65R-LCUU-H8	700, AWS	REL	RRUS-E2 B29	RMN
			A3	TPA-65R-LCUUUU-H8	700, WCS, 1900	RMV	RRUS-8843 B2, B66A	RMN
			A4	DMP65R-BU8DA	700, 850, 1900, 5G 850	RMN	RRUS-4478 B14	REL
BETA	156'	145°	B1	800-10121	UMTS 850	RMV	RRUS-32 B30	REL
			B2	OPA-65R-LCUU-H6	700, AWS	REL	LGP21903-DIPLEXERS	RMV
			B3	QS66512-2	700, WCS, 1900	RMV	1000860-TMAS	RMV
			B4	DMP65R-BU8DA	700, 850, 1900, 5G 850	RMN	RRUS-4449 B5, B12	RMN
GAMMA	156'	275°	C1	800-10121	UMTS 850	RMV	RRUS-E2 B29	RMN
			C2	OPA-65R-LCUU-H8	700, AWS	REL	RRUS-8843 B2, B66A	RMN
			C3	TPA-65R-LCUUUU-H8	700, WCS, 1900	RMV	RRUS-4478 B14	REL
			C4	DMP65R-BU8DA	700, 850, 1900, 5G 850	RMN	RRUS-32 B30	REL

NOTES

1. CONFIRM WITH AT&T REP FOR APPLICABLE UPDATES/REVISIONS AND MOST RECENT RFDS FOR NSN CONFIGURATION (CONFIG). GC TO CAP ALL UNUSED PORTS.

2. CONFIRM SPACING OF PROPOSED EQUIP DOES NOT CAUSE TOWER CONFLICTS NOR IMPEDE TOWER CLIMBING PEGS.

3. THE ANTENNA ORIENTATION PLAN IS A SCHEMATIC. ATC DID NOT CONFIRM EXISTING SITE CONDITIONS INCLUDING, BUT NOT LIMITED TO, ANTENNA AZIMUTHS, MOUNT CONFIGURATIONS AND TOWER ORIENTATION. SCALES SHOWN ARE FOR REFERENCE ONLY AND EXISTING DIMENSIONS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO INSTALLATION AND NOTIFY ATC OF ANY DISCREPANCIES.

4. CONTRACTOR TO ENSURE PROPER SEPARATION IN ACCORDANCE WITH AT&T'S FIRSTNET REQUIREMENTS (SEE SHEET R-602)

CABLE LENGTHS FOR JUMPERS

JUNCTION BOX TO RRU: 15'

RRU TO ANTENNA: 10'

STATUS ABBREVIATIONS

RMV: TO BE REMOVED

RMN: TO REMAIN

REL: TO BE RELOCATED


ADD: TO BE ADDED

FINAL ANTENNA SCHEDULE								
LOCATION			ANTENNA SUMMARY			NON ANTENNA SUMMARY		
SECTOR	RAD	AZ	POS	ANTENNA	BAND	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS
ALPHA	156'	35°	A1	-	-	-	-	-
			A2	QD8616-7	700, 1900, AWS	ADD	RRUS-E2 B29	RMN
			A3UP	AIR 6419 N77G	DOD	ADD	RRUS-8843 B2, B66A	RMN
			A3DN	AIR 6449 N77D	5G CBAND	ADD	RRUS-4478 B14	REL
BETA	156'	145°	A4	DMP65R-BU8DA	700, 5G 850, WCS	RMN	RRUS-4449 B5, B12	RMN
			A7	OPA-65R-LCUU-H8	-	REL	RRUS-32 B30	REL
			B1	-	-	-	-	-
			B2	QD8616-7	700, 1900, AWS	ADD	RRUS-E2 B29	RMN
GAMMA	156'	275°	B3UP	AIR 6419 N77G	DOD	ADD	RRUS-8843 B2, B66A	RMN
			B3DN	AIR 6449 N77D	5G CBAND	ADD	RRUS-4478 B14	REL
			B4	DMP65R-BU8DA	700, 5G 850, WCS	RMN	RRUS-4449 B5, B12	RMN
			B7	OPA-65R-LCUU-H8	-	REL	RRUS-32 B30	REL


EXISTING FIBER DISTRIBUTION/SQUID			EXISTING CABLING SUMMARY				
MODEL NUMBER	STATUS	COAX	CONDUIT	DC	FIBER	STATUS	
(2) DC6-48-60-18-8F	RMN	-	(4) 2"	(6) .82"	(1) 24SM .405"	RMN	
(1) DC6-48-60-18-8F	RMV	(6) 1-5/8"	(1) 3/8" (0.38") RET	-	(1) 36SM .405"	RMV	

FINAL FIBER DISTRIBUTION/SQUID					
MODEL NUMBER	STATUS	CONDUIT	DC	FIBER	STATUS
(2) DC6-48-60-18-8F	RMN	(4) 2"	(6) .82"	(1) 24SM .405"	RMN
(1) DC9-48-60-24-8C-EV	ADD	(1) 2"	(1) 1.15"	(1) 24SM .405"	ADD

3 EQUIPMENT SCHEDULES



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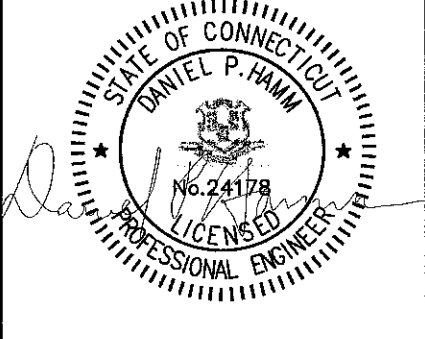
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DATE DRAWN: 11/22/21

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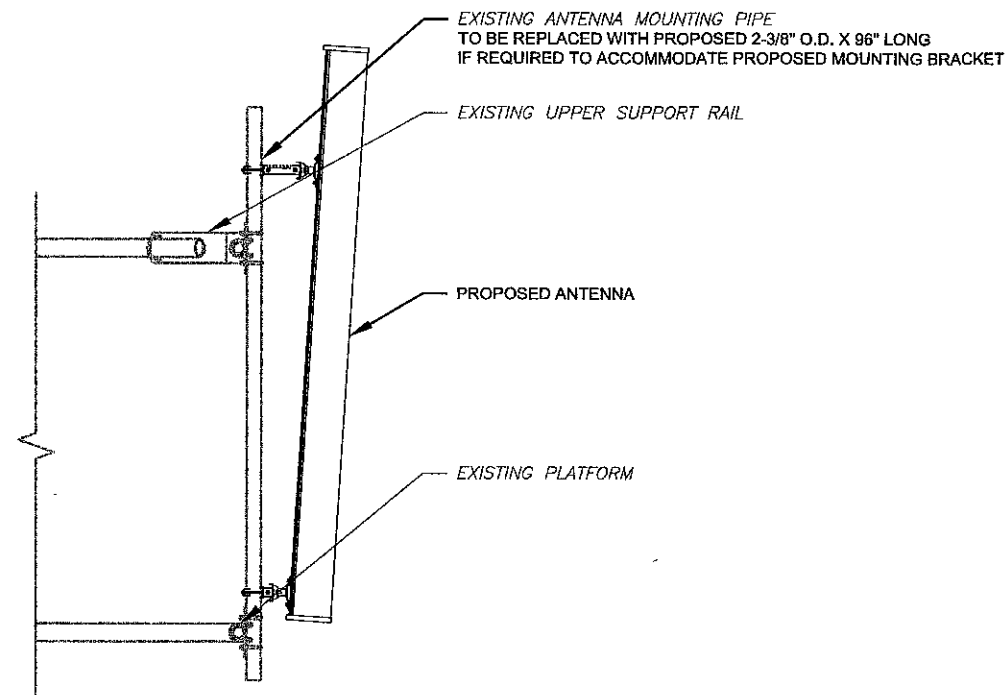
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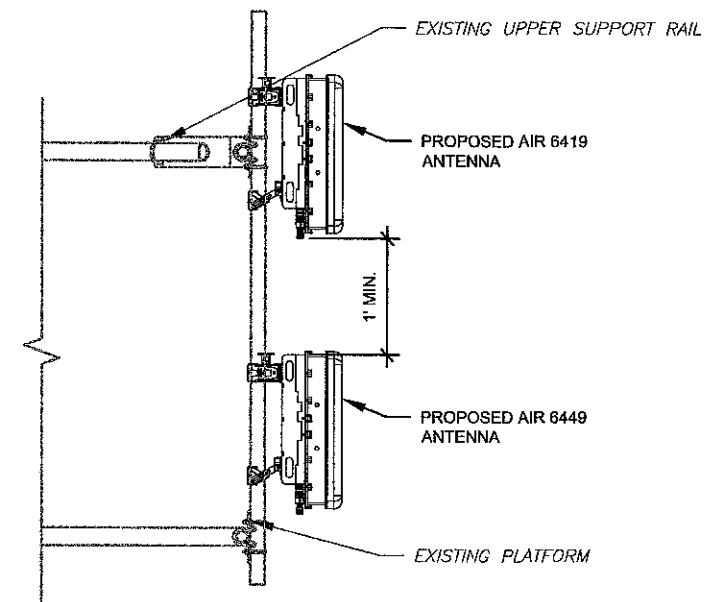
RF SCHEDULE AND ANTENNA INSTALLATION

SHEET NUMBER: **C-401**

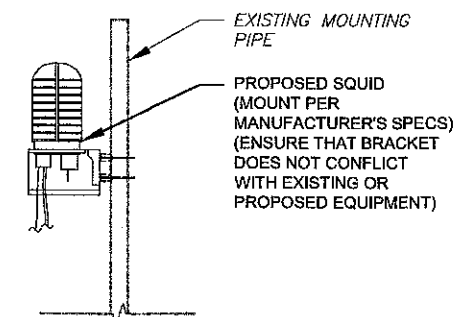
REVISION: **2**



1 PROPOSED ANTENNA MOUNTING DETAIL - TYPICAL
SCALE: N.T.S.



2 PROPOSED 5G ANTENNA MOUNTING DETAIL - TYPICAL
SCALE: N.T.S.



3 PROPOSED SQUID MOUNTING
SCALE: N.T.S.



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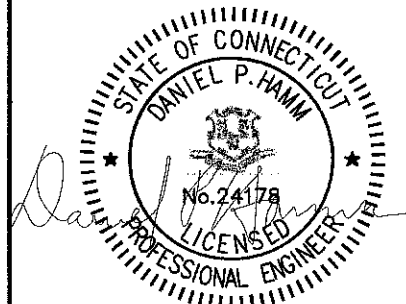
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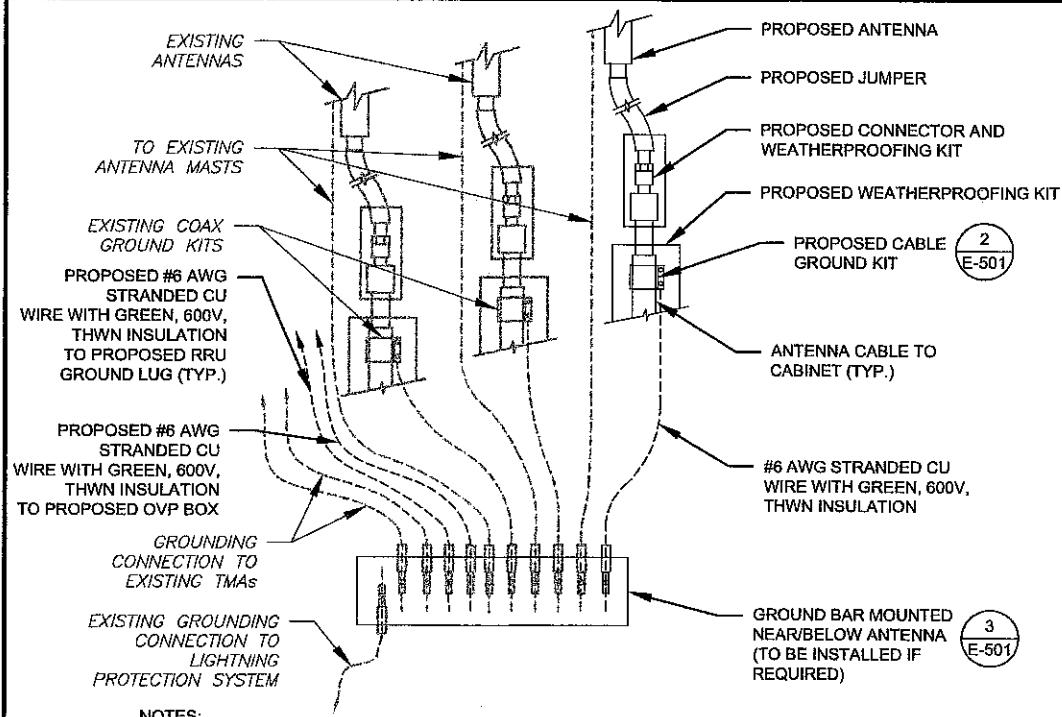


DATE DRAWN:	11/22/21
ATC JOB NO:	13682696_D1
CUSTOMER ID:	CTV5403
CUSTOMER #:	10071165

CONSTRUCTION
DETAILS

SHEET NUMBER:
C-501

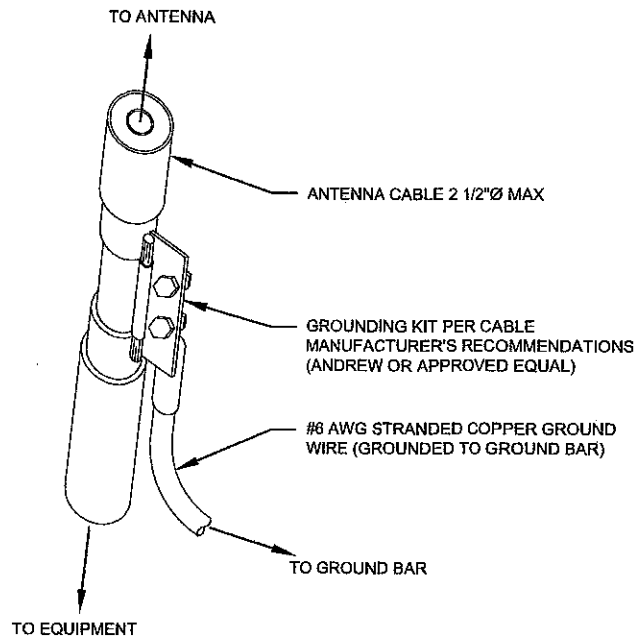
REVISION:
2



NOTES:

1. 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.
2. 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.

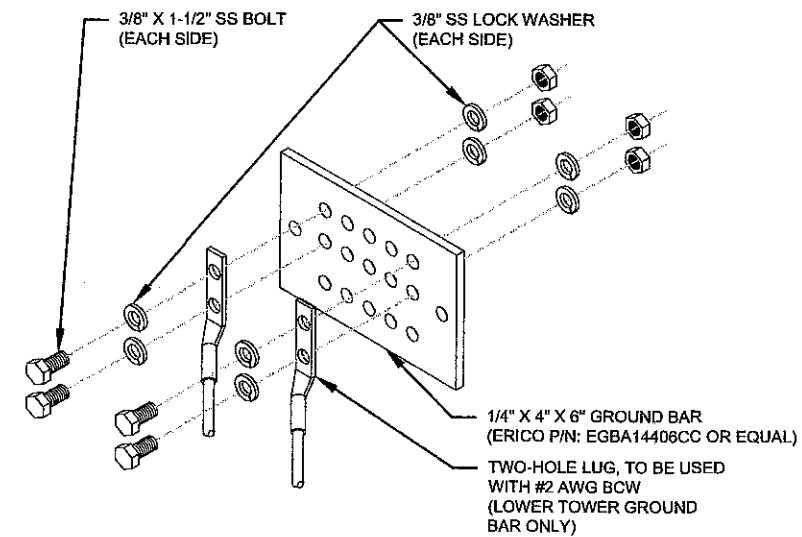
1 TYPICAL ANTENNA GROUNDING DIAGRAM
SCALE: N.T.S.



GROUND KIT NOTES:

1. 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.

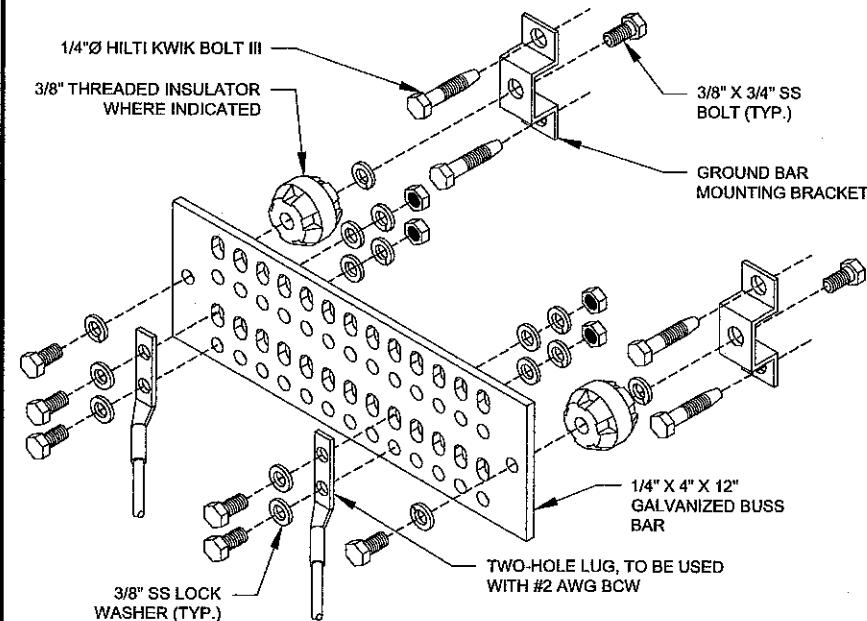
2 CABLE GROUND KIT CONNECTION DETAIL
SCALE: N.T.S.



GROUND BAR NOTES:

1. 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.

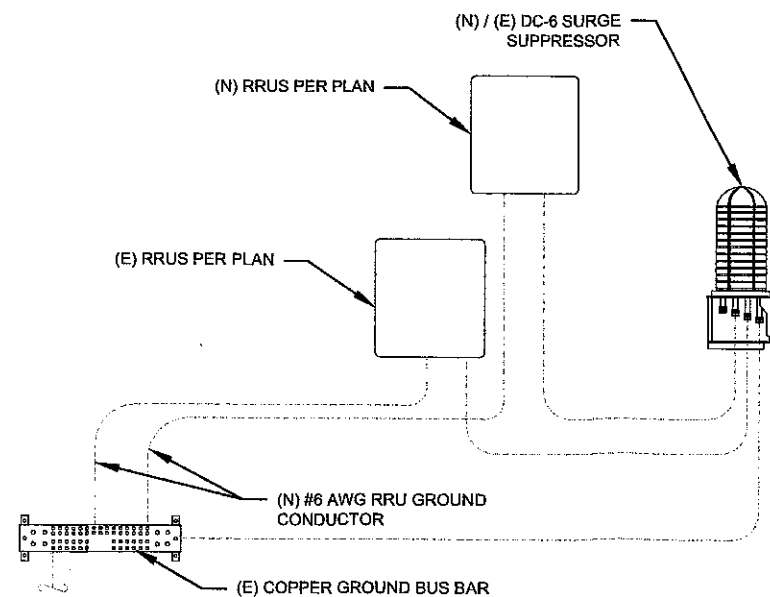
3 TOWER GROUND BAR DETAIL
SCALE: N.T.S.



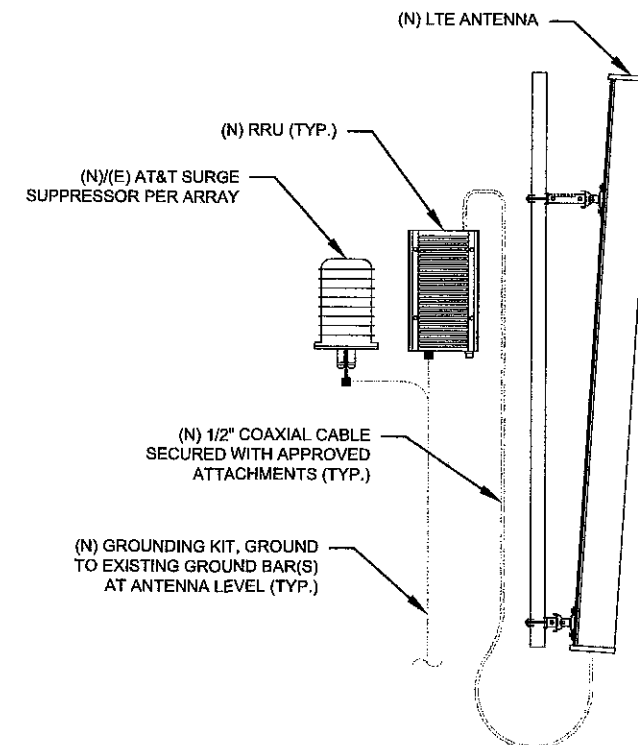
GROUND BAR NOTES

1. 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.

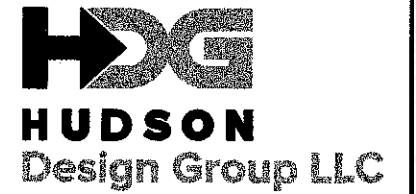
4 MAIN GROUND BAR DETAIL
SCALE: N.T.S.



5 RRU GROUNDING
SCALE: N.T.S.



6 ANTENNA/RRU GROUNDING
SCALE: N.T.S.



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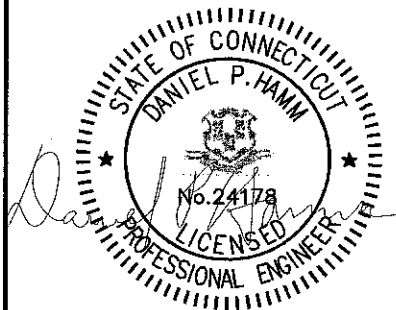
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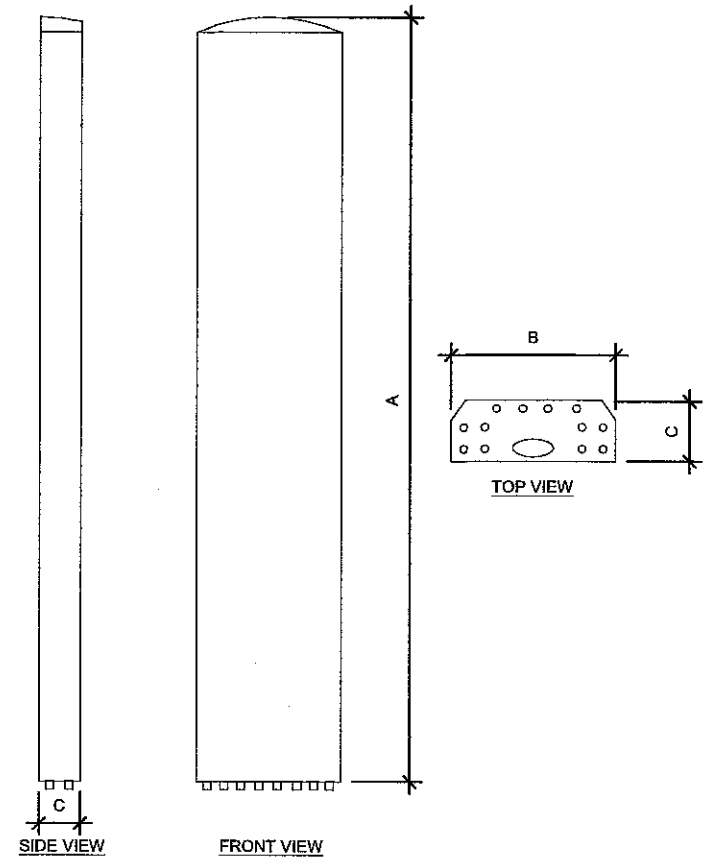
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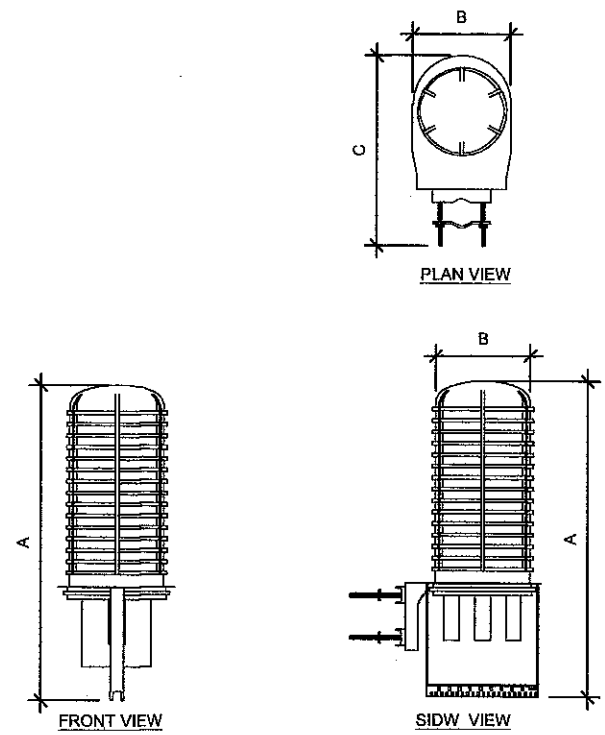
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ATC JOB NO:	13682696_D1
CUSTOMER ID:	CTV5403
CUSTOMER #:	10071165

GROUNDING DETAILS

SHEET NUMBER: E-501	REVISION: 2
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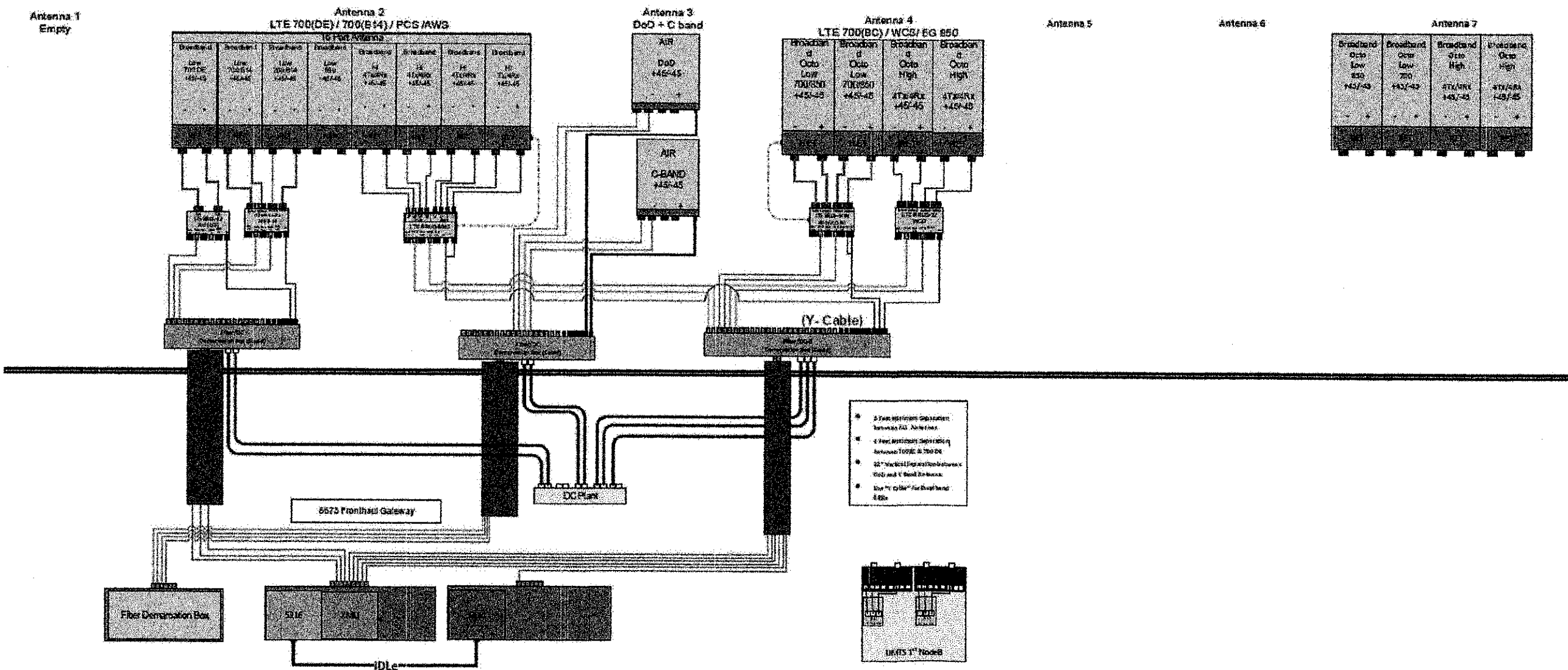


ANTENNA SPECIFICATIONS				
ANTENNA MODEL	A	B	C	WEIGHT (LBS)
AIR 6419 N77G	15.7"	30.0"	6.7"	102.5
AIR 6449 N77D	15.9"	30.4"	8.1"	103.6
QD8616-7	98.0"	22.0"	9.6"	68.2
QD6616-7	72.0"	22.0"	9.6"	59.1



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

Diagram - Sector	C	Diagram File Name - CTS443_C_Band_DoD1_Rev 2.vsd	Location Name -	NEWINGTON CENTRAL	Market	CONNECTICUT	Market Cluster	NEW ENGLAND
Alt. Site Name -	CTV5503							
Comments: "Important Note: For detailed radio to antenna wiring refer to the latest field notice - Antenna Radio Connection Drawings, Playbook, v6.0, Emerson"								





This report was prepared for American Tower Corporation by



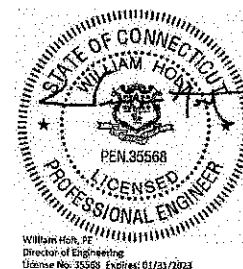
Antenna Mount Analysis Report

ATC Site Name : Newington CT
ATC Asset Number : 370627
Engineering Number : 13682696_C8_06
Mount Elevation : 155 ft
Carrier : AT&T Mobility
Carrier Site Name : MRCTB051590
Carrier Site Number : CTV5403
Site Location : 605 Willard Ave.
Newington, CT 06111-0000
41.69837222, -72.73714722
County : Hartford
Date : February 28, 2022
Max Usage : 50%
Result : Contingent Pass*
*See conclusion for requirements

Prepared By:
Rohit Yadav
Telamon Tower Engineering, PLLC

Reviewed By:
William Holt, P.E.
Telamon Tower Engineering, PLLC

Digitally signed by William
Holt
Date: 2022.02.28 13:57:55
-05'00'



telamon • 319 Chapanoke Road, Suite 118, Raleigh, NC 27603 • Engineering@ttepllc.com

Mount Analysis for American Tower
370627 - Newington CT

February 28, 2022
Telamon Tower Engineering, PLLC Project #41124-13682696_C8_06-01-MA-R1

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 following scope is executed:

AT&T CONMAT does not have parts which connect HSS tube to pipe and flush mount. Hence proposing modifications parts which are not listed in the CONMAT approved list.

- Install (1) proposed mount pipe 4 ft. long Pipe 25TD, A53 Gr. B at stand-off horizontal at each sector for proposed RRUS (3 total) as shown. Connect to stand-off member using (1) Site Pro 1 BBPM-K1 crossover plate (3 total).
- Install (1) proposed Site Pro 1 LWRM (MIC.11440) ring mount to monopole with (3) Site Pro 1 FMA-1 flush mount adapter as shown and install (1) proposed Site Pro 1 P30120 (ANT.16008) 10ft. long pipe 2.5STD, A53 Gr. B at each sector for spare panel configuration (3 total).

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.

telamon • 319 Chapanoke Road, Suite 118, Raleigh, NC 27603 • Engineering@ttepllc.com

Page 3

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 VERIFY THEY HAVE THE MOST RECENT MOUNT ANALYSIS PRIOR TO CONTRUCTION.

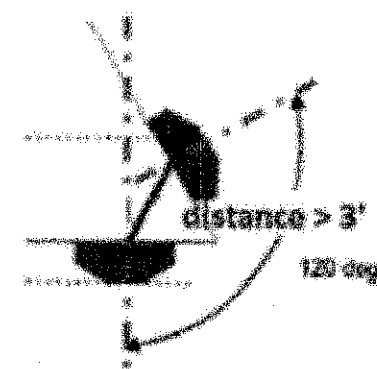
SUPPLEMENTAL

SHEET NUMBER:
R-603

REVISION:
2

RF REQUIREMENTS FOR 700 B14 FIRSTNET, 700 B12, 700D B29 ANTENNA SEPARATION

- ☐ Horizontal separation (side to side of antenna): $\geq 3'$
- ☐ Vertical separation (between the tips of the antennas): $> 3'$
- ☐ Inter-sector separation: $> 3'$ between the center of the antenna backplanes.



- ☐ Please note additional horizontal separation may be required if B14 antennas azimuth are different from others or antennas are severely angled with respect to the mount.
- ☐ Typical 3' horizontal separation can tolerate skew angle up to 6° .



NOTE: THIS SHEET CREATED BY OTHERS AND PROVIDED BY REQUEST OF CUSTOMER WITHOUT EDIT.

SUPPLEMENTAL

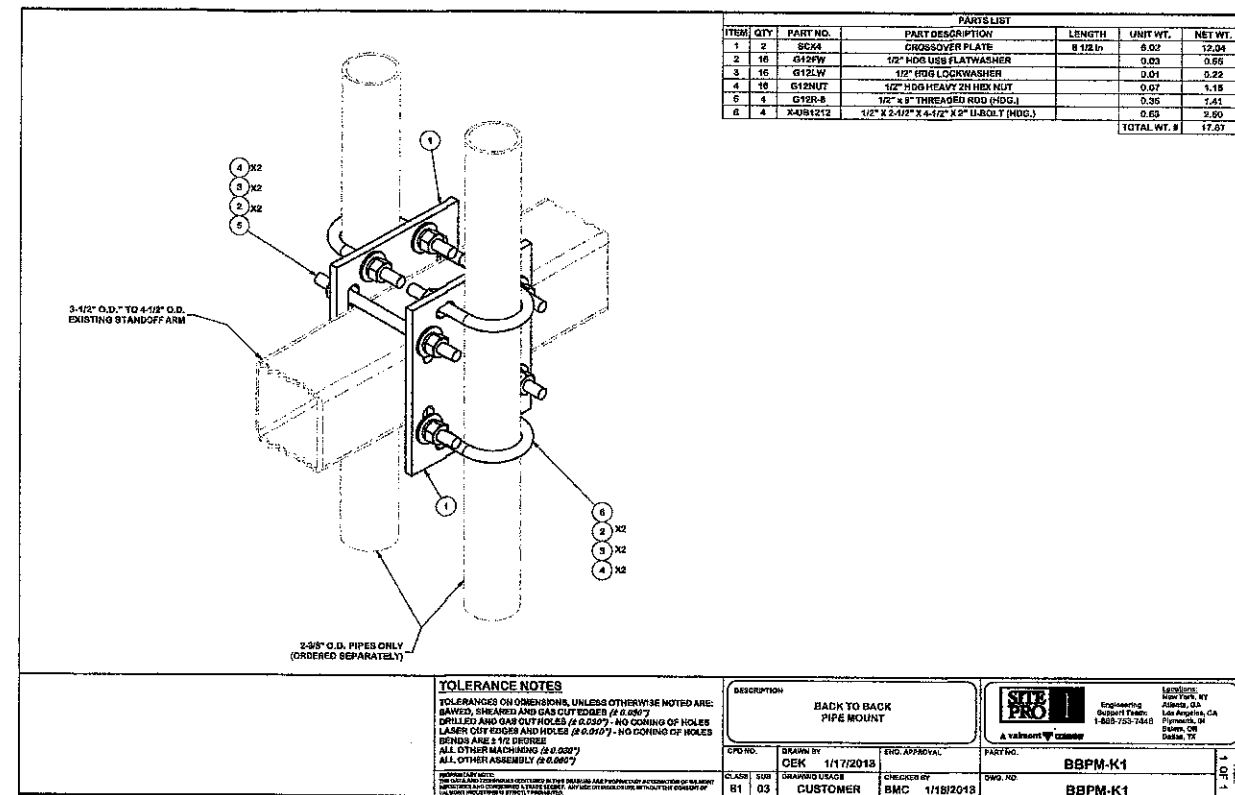
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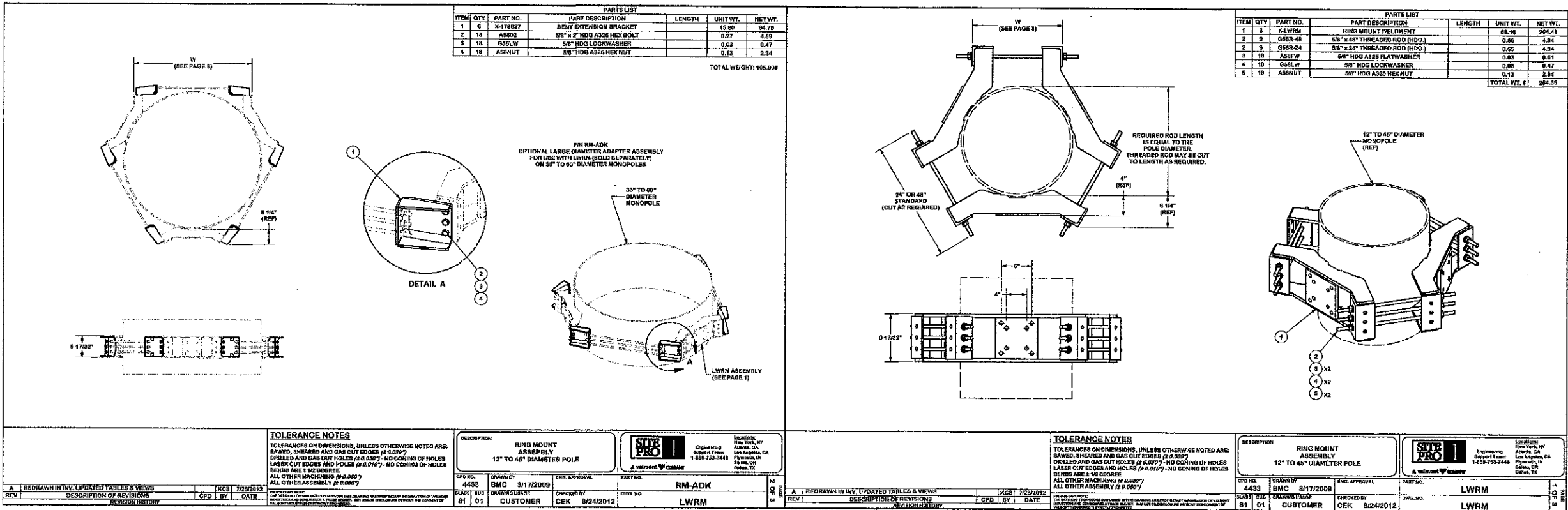
REVISION:

2

Telamon CLS	41124-13682696_C8_06- Newington CT	IN-1
RY		Feb 28, 2022
41124-13682696_C8_06-01-MA	Installation Sketch-ISO	41124-13682696_C8_06-01-MA-R2.r3d



NOTE: THIS SHEET CREATED BY OTHERS AND PROVIDED BY REQUEST OF CUSTOMER WITHOUT EDIT.



SUPPLEMENTAL

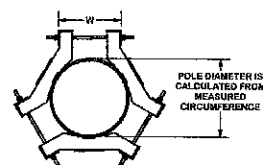
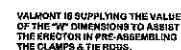
SHEET NUMBER:

R-606

REVISION:

2

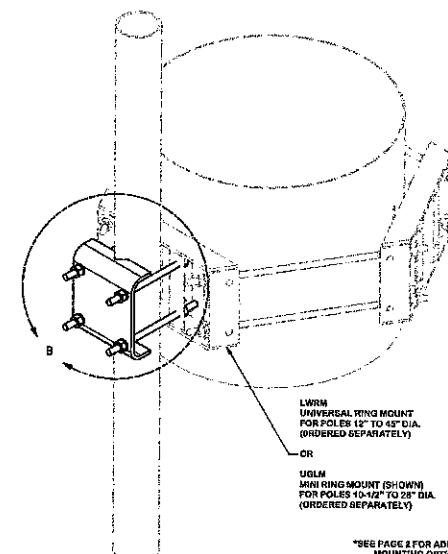
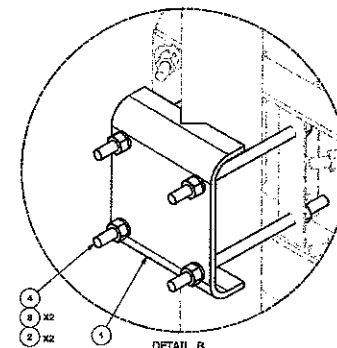
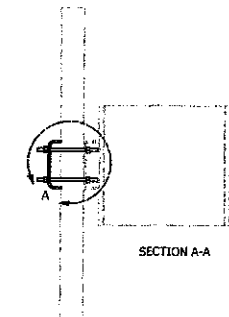
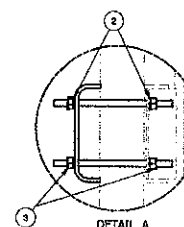
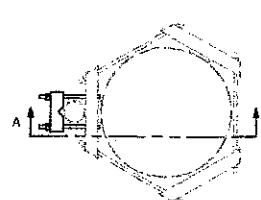
NOTE: THIS SHEET CREATED BY OTHERS AND PROVIDED
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THE CIRCUMFERENCE IS THE DISTANCE MEASURED AROUND THE OUTSIDE OF THE POLE AT THE LOCATION OF THE CLAMP.

CIRCUMF	DIA (REF)	W	CIRCUMF	DIA (REF)	W	CIRCUMF	DIA (REF)	W	CIRCUMF	DIA (REF)	W	CIRCUMF	DIA (REF)	W	CIRCUMF	DIA (REF)	W
38"	12-19 1/2"	9-3 1/8"	65"	20-1 1/8"	16-3 1/8"	88"	28"	23-3 1/8"	113"	38"	30-3 1/8"	138"	43-1 1/8"	37-1 1/4"	163"	61-7 1/8"	44-6 1/8"
40"	12-21 1/8"	9-3 1/8"	65"	20-3 1/8"	16-3 1/8"	88"	28"	23-5 1/8"	113"	38-1 1/8"	30-3 1/8"	138"	43-1 1/8"	37-1/2"	163"	62-2 1/8"	44-6 1/8"
42"	12-23 1/4"	9-3 1/8"	65"	20-1 1/8"	16-3 1/8"	88"	28"	23-5 1/8"	113"	38-1 1/8"	30-3 1/8"	138"	43-1 1/8"	37-1/2"	163"	62-2 1/8"	44-6 1/8"
44"	13-1 1/8"	10-1 1/8"	66"	21"	17-1 1/8"	91"	29"	24-1 1/8"	114"	39-1 1/8"	31-1 1/8"	141"	44-1 1/8"	38-1 1/8"	166"	63-1 1/8"	45-3 1/8"
46"	13-3 1/8"	10-1 1/8"	67"	21-1 1/8"	17-1 1/8"	91"	29"	24-1 1/8"	114"	39-1 1/8"	31-1 1/8"	141"	44-1 1/8"	38-1 1/8"	166"	63-1 1/8"	45-3 1/8"
48"	13-5 1/8"	10-1 1/8"	67"	21-1 1/8"	17-1 1/8"	91"	29"	24-1 1/8"	114"	39-1 1/8"	31-1 1/8"	141"	44-1 1/8"	38-1 1/8"	166"	63-1 1/8"	45-3 1/8"
50"	13-7 1/8"	10-1 1/8"	68"	21-1 1/8"	17-1 1/8"	91"	29"	24-1 1/8"	114"	39-1 1/8"	31-1 1/8"	141"	44-1 1/8"	38-1 1/8"	166"	63-1 1/8"	45-3 1/8"
52"	13-9 1/8"	10-1 1/8"	68"	21-1 1/8"	17-1 1/8"	91"	29"	24-1 1/8"	114"	39-1 1/8"	31-1 1/8"	141"	44-1 1/8"	38-1 1/8"	166"	63-1 1/8"	45-3 1/8"
54"	13-11 1/8"	10-1 1/8"	68"	21-1 1/8"	17-1 1/8"	91"	29"	24-1 1/8"	114"	39-1 1/8"	31-1 1/8"	141"	44-1 1/8"	38-1 1/8"	166"	63-1 1/8"	45-3 1/8"
56"	13-13 1/8"	10-1 1/8"	69"	21-1 1/8"	17-1 1/8"	91"	29"	24-1 1/8"	114"	39-1 1/8"	31-1 1/8"	141"	44-1 1/8"	38-1 1/8"	166"	63-1 1/8"	45-3 1/8"
58"	13-15 1/8"	10-1 1/8"	69"	21-1 1/8"	17-1 1/8"	91"	29"	24-1 1/8"	114"	39-1 1/8"	31-1 1/8"	141"	44-1 1/8"	38-1 1/8"	166"	63-1 1/8"	45-3 1/8"
60"	13-17 1/8"	10-1 1/8"	69"	21-1 1/8"	17-1 1/8"	91"	29"	24-1 1/8"	114"	39-1 1/8"	31-1 1/8"	141"	44-1 1/8"	38-1 1/8"	166"	63-1 1/8"	45-3 1/8"
62"	13-19 1/8"	10-1 1/8"	70"	21-1 1/8"	17-1 1/8"	91"	29"	24-1 1/8"	114"	39-1 1/8"	31-1 1/8"	141"	44-1 1/8"	38-1 1/8"	166"	63-1 1/8"	45-3 1/8"
64"	13-21 1/8"	10-1 1/8"	70"	21-1 1/8"	17-1 1/8"	91"	29"	24-1 1/8"	114"	39-1 1/8"	31-1 1/8"	141"	44-1 1/8"	38-1 1/8"	166"	63-1 1/8"	45-3 1/8"
66"	13-23 1/8"	10-1 1/8"	70"	21-1 1/8"	17-1 1/8"	91"	29"	24-1 1/8"	114"	39-1 1/8"	31-1 1/8"	141"	44-1 1/8"	38-1 1/8"	166"	63-1 1/8"	45-3 1/8"
68"	13-25 1/8"	10-1 1/8"	70"	21-1 1/8"	17-1 1/8"	91"	29"	24-1 1/8"	114"	39-1 1/8"	31-1 1/8"	141"	44-1 1/8"	38-1 1/8"	166"	63-1 1/8"	45-3 1/8"
70"	13-27 1/8"	10-1 1/8"	71"	21-1 1/8"	17-1 1/8"	91"	29"	24-1 1/8"	114"	39-1 1/8"	31-1 1/8"	141"	44-1 1/8"	38-1 1/8"	166"	63-1 1/8"	45-3 1/8"
72"	13-29 1/8"	10-1 1/8"	71"	21-1 1/8"	17-1 1/8"	91"	29"	24-1 1/8"	114"	39-1 1/8"	31-1 1/8"	141"	44-1 1/8"	38-1 1/8"	166"	63-1 1/8"	45-3 1/8"
74"	13-31 1/8"	10-1 1/8"	71"	21-1 1/8"	17-1 1/8"	91"	29"	24-1 1/8"	114"	39-1 1/8"	31-1 1/8"	141"	44-1 1/8"	38-1 1/8"	166"	63-1 1/8"	45-3 1/8"
76"	13-33 1/8"	10-1 1/8"	72"	21-1 1/8"	17-1 1/8"	91"	29"	24-1 1/8"	114"	39-1 1/8"	31-1 1/8"	141"	44-1 1/8"	38-1 1/8"	166"	63-1 1/8"	45-3 1/8"
78"	13-35 1/8"	10-1 1/8"	72"	21-1 1/8"	17-1 1/8"	91"	29"	24-1 1/8"	114"	39-1 1/8"	31-1 1/8"	141"	44-1 1/8"	38-1 1/8"	166"	63-1 1/8"	45-3 1/8"
80"	13-37 1/8"	10-1 1/8"	73"	21-1 1/8"	17-1 1/8"	91"	29"	24-1 1/8"	114"	39-1 1/8"	31-1 1/8"	141"	44-1 1/8"	38-1 1/8"	166"	63-1 1/8"	45-3 1/8"
82"	13-39 1/8"	10-1 1/8"	73"	21-1 1/8"	17-1 1/8"	91"	29"	24-1 1/8"	114"	39-1 1/8"	31-1 1/8"	141"	44-1 1/8"	38-1 1/8"	166"	63-1 1/8"	45-3 1/8"
84"	13-41 1/8"	10-1 1/8"	73"	21-1 1/8"	17-1 1/8"	91"	29"	24-1 1/8"	114"	39-1 1/8"	31-1 1/8"	141"	44-1 1/8"	38-1 1/8"	166"	63-1 1/8"	45-3 1/8"
86"	13-43 1/8"	10-1 1/8"	74"	21-1 1/8"	17-1 1/8"	91"	29"	24-1 1/8"	114"	39-1 1/8"	31-1 1/8"	141"	44-1 1/8"	38-1 1/8"	166"	63-1 1/8"	45-3 1/8"
88"	13-45 1/8"	10-1 1/8"	74"	21-1 1/8"	17-1 1/8"	91"	29"	24-1 1/8"	114"	39-1 1/8"	31-1 1/8"	141"	44-1 1/8"	38-1 1/8"	166"	63-1 1/8"	45-3 1/8"
90"	13-47 1/8"	10-1 1/8"	74"	21-1 1/8"	17-1 1/8"	91"	29"	24-1 1/8"	114"	39-1 1/8"	31-1 1/8"	141"	44-1 1/8"	38-1 1/8"	166"	63-1 1/8"	45-3 1/8"
92"	13-49 1/8"	10-1 1/8"	75"	21-1 1/8"	17-1 1/8"	91"	29"	24-1 1/8"	114"	39-1 1/8"	31-1 1/8"	141"	44-1 1/8"	38-1 1/8"	166"	63-1 1/8"	45-3 1/8"
94"	13-51 1/8"	10-1 1/8"	75"	21-1 1/8"	17-1 1/8"	91"	29"	24-1 1/8"	114"	39-1 1/8"	31-1 1/8"	141"	44-1 1/8"	38-1 1/8"	166"	63-1 1/8"	45-3 1/8"
96"	13-53 1/8"	10-1 1/8"	75"	21-1 1/8"	17-1 1/8"	91"	29"	24-1 1/8"	114"	39-1 1/8"	31-1 1/8"	141"	44-1 1/8"	38-1 1/8"	166"	63-1 1/8"	45-3 1/8"
98"	13-55 1/8"	10-1 1/8"	76"	21-1 1/8"	17-1 1/8"	91"	29"	24-1 1/8"	114"	39-1 1/8"	31-1 1/8"	141"	44-1 1/8"	38-1 1/8"	166"	63-1 1/8"	45-3 1/8"
100"	13-57 1/8"	10-1 1/8"	76"	21-1 1/8"	17-1 1/8"	91"	29"	24-1 1/8"	114"	39-1 1/8"	31-1 1/8"	141"	44-1 1/8"	38-1 1/8"	166"	63-1 1/8"	45-3 1/8"
102"	13-59 1/8"	10-1 1/8"	77"	21-1 1/8"	17-1 1/8"	91"	29"	24-1 1/8"	114"	39-1 1/8"	31-1 1/8"	141"	44-1 1/8"	38-1 1/8"	166"	63-1 1/8"	45-3 1/8"
104"	13-61 1/8"	10-1 1/8"	77"	21-1 1/8"	17-1 1/8"	91"	29"	24-1 1/8"	114"	39-1 1/8"	31-1 1/8"	141"	44-1 1/8"	38-1 1/8"	166"	63-1 1/8"	45-3 1/8"
106"	13-63 1/8"	10-1 1/8"	77"	21-1 1/8"	17-1 1/8"	91"	29"	24-1 1/8"	114"	39-1 1/8"	31-1 1/8"	141"	44-1 1/8"	38-1 1/8"	166"	63-1 1/8"	45-3 1/8"
108"	13-65 1/8"	10-1 1/8"	78"	21-1 1/8"	17-1 1/8"	91"	29"	24-1 1/8"	114"	39-1 1/8"	31-1 1/8"	141"	44-1 1/8"	38-1 1/8"	166"	63-1 1/8"	45-3 1/8"
110"	13-67 1/8"	10-1 1/8"	78"	21-1 1/8"	17-1 1/8"	91"	29"	24-1 1/8"	114"	39-1 1/8"	31-1 1/8"	141"	44-1 1/8"	38-1 1/8"	166"	63-1 1/8"	45-3 1/8"
112"	13-69 1/8"	10-1 1/8"	78"	21-1 1/8"	17-1 1/8"	91"	29"	24-1 1/8"	114"	39-1 1/8"	31-1 1/8"	141"	44-1 1/8"	38-1 1/8"	166"	63-1 1/8"	45-3 1/8"
114"	13-71 1/8"	10-1 1/8"	79"	21-1 1/8"	17-1 1/8"	91"	29"	24-1 1/8"	114"	39-1 1/8"	31-1 1/8"	141"	44-1 1/8"	38-1 1/8"	166"	63-1 1/8"	45-3 1/8"
116"	13-73 1/8"	10-1 1/8"	79"	21-1 1/8"	17-1 1/8"	91"	29"	24-1 1/8"	114"	39-1 1/8"	31-1 1/8"	141"	44-1 1/8"	38-1 1/8"	166"	63-1 1/8"	45-3 1/8"
118"	13-75 1/8"	10-1 1/8"	79"	21-1 1/8"	17-1 1/8"	91"	29"	24-1 1/8"	114"	39-1 1/8"	31-1 1/8"	141"	44-1 1/8"	38-1 1/8"	166"	63-1 1/8"	45-3 1/8"
120"	13-77 1/8"	10-1 1/8"	80"	21-1 1/8"	17-1 1/8"	91"	29"	24-1 1/8"	114"	39-1 1/8"	31-1 1/8"	141"	44-1 1/8"	38-1 1/8"	166"	63-1 1/8"	45-3 1/8"
122"	13-79 1/8"	10-1 1/8"	80"	21-1 1/8"	17-1 1/8"	91"	29"	24-1 1/8"	114"	39-1 1/8"	31-1 1/8"	141"	44-1 1/8"	38-1 1/8"	166"	63-1 1/8"	45-3 1/8"
124"	13-81 1/8"	10-1 1/8"	80"	21-1 1/8"	17-1 1/8"	91"	29"	24-1 1/8"	114"	39-1 1/8"	31-1 1/8"	141"	44-1 1/8"	38-1 1/8"	166"	63-1 1/8"	45-3 1/8"
126"	13-83 1/8"	10-1 1/8"	81"	21-1 1/8"	17-1 1/8"	91"	29"	24-1 1/8"	114"	39-1 1/8"	31-1 1/8"	141"	44-1 1/8"	38-1 1/8"	166"	63-1 1/8"	45-3 1/8"
128"	13-85 1/8"	10-1 1/8"	81"	21-1 1/8"	17-1 1/8"	91"	29"	24-1 1/8"	114"	39-1 1/8"	31-1 1/8"	141"	44-1 1/8"	38-1 1/8"	166"	63-1 1/8"	45-3 1/8"
130"	13-87 1/8"	10-1 1/8"	81"	21-1 1/8"	17-1 1/8"	91"	29"	24-1 1/8"	114"	39-1 1/8"	31-1 1/8"	141"	44-1 1/8"	38-1 1/8"	166"	63-1 1/8"	45-3 1/8"
132"	13-89 1/8"	10-1 1/8"	82"	21-1 1/8"	17-1 1/8"	91"	29"	24-1 1/8"	114"	39-1 1/8"	31-1 1/8"	141"	44-1 1/8"	38-1 1/8"	166"	63-1 1/8"	45-3 1/8"
134"	13-91 1/8"	10-1 1/8"	82"	21-1 1/8"	17-1 1/8"	91"	29"	24-1 1/8"	114"	39-1 1/8"	31-1 1/8"	141"	44-1 1/8"	38-1 1/8"	166"	63-1 1/8"	45-3 1/8"
136"	13-93 1/8"	10-1 1/8"	82"	21-1 1/8"	17-1 1/8"	91"	29"	24-1 1/8"	114"	39-1 1/8"	31-1 1/8"	141"	44-1 1/8"	38-1 1/8"	166"	63-1 1/8"	45-3 1/8"
138"	13-95 1/8"	10-1 1/8"	83"	21-1 1/8"	17-1 1/8"	91"	29"	24-1 1/8"	114"	39-1 1/8"	31-1 1/8"	141"	44-1 1/8"	38-1 1/8"	166"	63-1 1/8"	45-3 1/8"
140"	13-97 1/8"	10-1 1/8"	83"	21-1 1/8"	17-1 1/8"	91"	29"	24-1 1/8"	114"	39-1 1/8"	31-1 1/8"	141"	44-1 1/8"	38-1 1/8"	166"	63-1 1/8"	45-3 1/8"
142"	13-99 1/8"	10-1 1/8"	83"	21-1 1/8"	17-1 1/8"	91"	29"	24-1 1/8"	114"	39-1 1/8"	31-1 1/8"	141"	44-1 1/8"	38-1 1/8"	166"	63-1 1/8"	45-3 1/8"
144"	13-101 1/8"	10-1 1/8"	84"	21-1 1/8"	17-1 1/8"	91"	29"	24-1 1/8"	114"	39-1 1/8"	31-1 1/8"	141"	44-1 1/8"	38-1 1/8"	166"	63-1 1/8"	45-3 1/8"
146"	13-103 1/8"	10-1 1/8"	84"	21-1 1/8"	17-1 1/8"	91"	29"	24-1 1/8"	114"	39-1 1/8"	31-1 1/8"	141"	44-1 1/8"	38-1 1/8"	166"	63-1 1/8"	45-3 1/8"
148"	13-105 1/8"	10-1 1/8"	84"	21-1 1/8"	17-1 1/8"	91"	29"	24-1 1/8"	114"	39-1 1/8"	31-1 1/8"	141"	44-1 1/8"	38-1 1/8"	166"	63-1 1/8"	45-3 1/8"
150"	13-107 1/8"	10-1 1/8"	85"	21-1 1/8"	17-1 1/8"	91"	29"	24-1 1/8"	114"	39-1 1/8"	31-1 1/8"	141"	44-1 1/8"	38-1 1/8"	166"	63-1 1/8"	45-3 1/8"
152"	13-109 1/8"	10-1 1/8"	85"	21-1 1/8"	17-1 1/8"	91"	29"	24-1 1/8"	114"	39-1 1/8"	31-1 1/8"	141"	44-1 1/8"	38-1 1/8"	166"	63-1 1/8"	45-3 1/8"
154"	13-111 1/8"	10-1 1/8"	85"	21-1 1/8"	17-1 1/8"	91"	29"	24-1 1/8"	114"	39-1 1/8"	31-1 1/8"	141"	44-1 1/8"	38-1 1/8"	166"	63-1 1/8"	45-3 1/8"
156"	13-113 1/8"	10-1 1/8"	86"	21-1 1/8"	17-1 1/8"	91"	29"	24-1 1/8"	114"	39-1 1/8"	31-1 1/8"	141"	44-1 1/8"	38-1 1/8"	166"	63-1 1/8"	45-3 1/8"
158"	13-115 1/8"	10-1 1/8"	86"	21-1 1/8"	17-1 1/8"	91"	29"	24-1 1/8"	114"	39-1 1/8"	31-1 1/8"	141"	44-1 1/8"	38-1 1/8"	166"	63-1 1/8"	45-3 1/8"
160"	13-117 1/8"	10-1															

PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT
1	1	X-214130	BENT PLATE V-CLAMP	12 9/8 in	11.43	11.43
2	8	G58LW	5/8" HDG LOCKWASHER		0.03	0.21
3	8	G69HUT	5/8" HDG HEAVY ZN HEX NUT		0.73	1.04
4	4	G59R-12	5/8" x 12" THREADED ROD (HDG.)		0.55	1.41
					TOTAL WT. #	16.32




LWRM
UNIVERSAL RING MOUNT
FOR POLES 12" TO 45" D.
(ORDERED SEPARATELY)

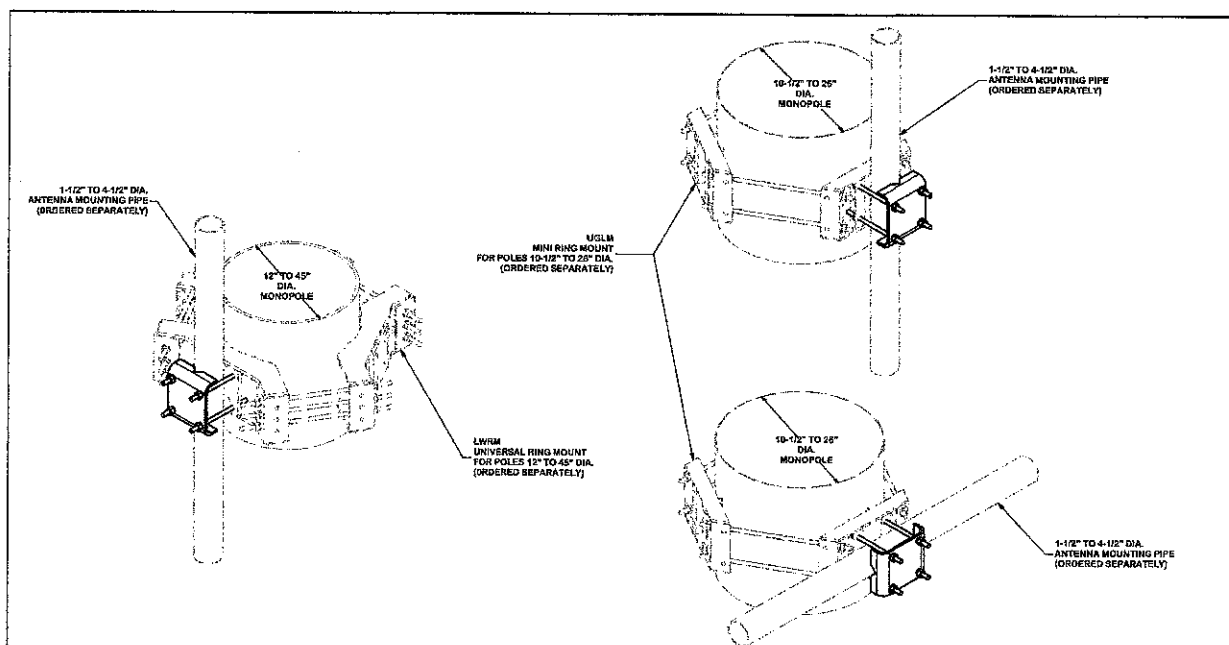
OR

UGLM
MINI RING MOUNT (SHOW
FOR POLES 10-1/2" TO 28")
(ORDERED SEPARATELY)

*SEE PAGE 2 FOR ADDITIONAL MOUNTING OPTIONS

<p>REVISION</p> <p>1 REDRAWN IN INV. UPDATED TABLES & VIEWS</p> <p>REV DESCRIPTION OF REVISIONS CPD BY DATE</p>				<p>TOLERANCE NOTES</p> <p>DIMENSIONS ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE: BORED, FINISHED AND BORE OUT EDGES (± 0.007) DRILLED AND BORE OUT HOLES (± 0.007) - NO CORNING OF HOLES LASER CUT EDGES AND HOLES (± 0.010) - NO CORNING OF HOLES BUSHING ARE ± 1/2 DEGREE ALL OTHER MACHINING (± 0.007) ALL OTHER ASSEMBLY (± 0.007)</p> <p><small>THIS DRAWING AND THE INFORMATION CONTAINED HEREIN ARE UNCLASSIFIED AND EXCLUDED FROM AUTOMATIC DOWNGRADING AND DECLASSIFICATION SCHEDULES.</small></p>				<p>DESCRIPTION</p> <p>RING MOUNT ASSEMBLY</p> <p>12" TO 5/8" DIAMETER POLE</p>				<p>SITE PRO</p> <p><small>Engineering 1-800-753-7448 Dulles, VA Dulles, VA</small></p>				<p><small>Location: New York, NY Atlanta, GA Phoenix, AZ Dulles, VA Dulles, VA</small></p>			
<p>CHGNO. 4438 DRAWN BY EMC 3/17/2003 ENG. APPROVAL DATE 8/24/2003</p> <p>8.01 0.01 CUSTOMER CEK 8/24/2003</p>				<p>PART NO. LWRM</p> <p>DWG. NO. 1 WDMA</p>				<p>60</p> <p>00</p> <p>00</p>											

										TOLERANCE NOTES										DESCRIPTION										MOUNTING OPTIONS:														
										TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE: BANGED, SHARDED AND GAS CUT EDGES (± 0.007) DRILLED AND REAM COT HOLED (± 0.005) - NO CONGRU OF HOLES LAISER CUT EDGES AND HOLES (± 0.010) - NO CONGRU OF HOLES BENDS ARE 1 DEGREE ALL OTHER MACHINING (± 0.005) ALL OTHER ASSEMBLY (± 0.009)										FLUSH MOUNT ADAPTER SINGLE LEVEL										 Engineering Department 1-800-755-7440 San Jose, CA Dallas, TX														
REMOVED A BENT PLATE V-CAMP, USED 12" THREADED RODS										4165	CEK	12/15/2010							CPO NO.: 4165					DRAWN BY: CEK 10/12/2010					ENR. APPROVAL:					PART NO.										
REV DESCRIPTION OF REVISIONS										CPO	BY	DATE							CLASS: 4165					EXAMINATION USAGE					CHECKED BY:					CWO. NO.										
										PROPERTY OF THE COMPANY IT IS TO BE KEPT IN THE COMPANY'S POSSESSION AT ALL TIMES AND NOT TO BE LOANED OR COPIED FOR ANY PURPOSES WITHOUT THE WRITTEN PERMISSION OF THE COMPANY																				FMA1														



<p>TOLERANCE NOTES</p> <p>TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE: SAIVED, BREAKED AND GAS CUT EDGES (R.0.040) - NO CORNING OF HOLES DRILLED AND GAS CUT HOLES (R.0.040) - NO CORNING OF HOLES LARGER CUT EDGES AND HOLES (R.0.010) - NO CORNING OF HOLES REMAINS ARE 1/2 DECIMAL ALL OTHER MACHINING IS (R.0.040) ALL OTHER ASSEMBLY (R.0.040)</p>		<p>DESCRIPTION</p> <p>FLUSH MOUNT ADAPTER SINGLE LEVEL</p>		<p>SITE PRO</p> <p>Engineering 1-800-135-7444</p> <p>A valuelec company</p> <p>Location: Houston, TX Alhambra, CA Fremont, CA Dallas, TX</p>	
<p>CHG. NO. 4195</p> <p>ISSUED BY JSA</p>	<p>DRAWN BY CEK</p> <p>DATE 10/12/2010</p>	<p>ENG. APPROVAL</p> <p>DATE</p>	<p>PART NO.</p> <p>DATE</p>	<p>FMA1</p>	<p>1 2 3 4 5 6 7 8 9 10 11 12</p>
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SUPPLEMENTAL

SHEET NUMBER:

R-607

REVISION:

2

NOTE: THIS SHEET CREATED BY OTHERS AND PROVIDED BY REQUEST OF CUSTOMER WITHOUT EDIT.