

CONNECTICUT SITING COUNCIL

PETITION OF NEW CINGULAR WIRELESS)
PCS, LLC ("AT&T") TO THE CONNECTICUT)
SITING COUNCIL FOR A DECLARATORY) PETITION NO. _____
RULING THAT NO CERTIFICATE OF)
ENVIRONMENTAL COMPATIBILITY AND)
PUBLIC NEED IS REQUIRED TO MODIFY)
AN EXISTING WIRELESS)
TELECOMMUNICATIONS FACILITY)
LOCATED AT 585 SOUTH MAIN STREET,)
NAUGATUCK, CONNECTICUT)
)

PETITION FOR DECLARATORY RULING TO MODIFY AN EXISTING WIRELESS FACILITY 585 SOUTH MAIN STREET, NAUGATUCK, CONNECTICUT

I. Introduction

New Cingular Wireless PCS, LLC ("AT&T"), the "Petitioner", hereby petitions the Connecticut Siting Council ("Council") pursuant to Sections 16-50j-38 and 16-50j-39 of the Regulations of Connecticut State Agencies ("R.C.S.A.") for a declaratory ruling that no Certificate of Environmental Compatibility and Public Need ("Certificate") is required pursuant to Section 16-50k of the Connecticut General Statutes ("C.G.S.") to modify an existing wireless facility owned by American Tower Corporation ("ATC") located at 585 South Main Street in Naugatuck, Connecticut (the "Site"). Included in Attachment 1 is a June 21, 2017 letter from ATC authorizing AT&T to file this Petition.

II. The Premises and Existing Wireless Facility

The 1.76 acre Site is located on South Main Street (aka Rt. 63) and is improved with a commercial building and associated parking area. The surrounding area is characterized as a business district with a mix of residential, commercial, and retail uses to the north, east, and south. The Site abuts undeveloped land to the west, which is owned by the State of Connecticut. Route 8 is located to the west of the State owned land. Immediately across the street to the east of the Premises, as well as to the immediate south is vegetated undeveloped land. An aerial photo is provided in the drawings included in Attachment 3 on Sheet Number Z-2.

The existing wireless facility, owned by ATC, is comprised of a 49-foot tall monopole with 6 AT&T antennas mounted at the top and 12 Verizon Wireless antennas mounted

at a height of approximately 40', with associated equipment for both carriers located in the equipment shelters at the base of the monopole. In 2003, the Council approved Verizon's petition (Petition #623) to replace an existing 49-foot tall wooden pole, which was used by AT&T and Verizon Wireless, with a new steel monopole of the same height. Subsequently, the Council approved several exempt modifications for AT&T and Verizon Wireless for upgrades to their facilities. Included in Attachment 2 is a copy of Petition #623.

III. AT&T's Proposed Modification

AT&T is licensed by the Federal Communications Commission ("FCC") to provide wireless services in this area of the State of Connecticut. AT&T's proposed modification to the existing facility would consist of installing a 40-foot tall monopole extension to the existing monopole, increasing the overall height of the monopole to approximately 89' above grade level ("AGL"). A 9-foot tall lighting rod would be installed at the top of the monopole extension. AT&T's 6 antennas and remote radio units ("RRU") would be relocated to a new mount at the top of the monopole extension. No changes are being proposed to AT&T's existing at-grade equipment shelter. No changes are proposed to Verizon Wireless' existing facility.

AT&T's proposed modification to the existing facility is detailed in the drawings included as Attachment 3 prepared by SAI Communications, Inc., dated June 6, 2017 and last revised July 11, 2017. Also, annexed hereto as Attachment 4 is a passing structural analysis prepared by ATC dated July 21 2017, concluding that the proposed extension will be designed to support AT&T's modification and Verizon Wireless' facility.

IV. The Proposal Will Not Have a Substantial Adverse Environmental Effect

A comparison of the existing and proposed conditions reveals no substantial or significant environmental impacts associated with AT&T's proposed modification to the existing facility. The monopole extension will be consistent with the existing monopole design, color, and material. Photosimulations depicting the existing and proposed facility at six surrounding locations are included in Attachment 5. These photosimulations demonstrate that visibility of the proposed monopole extension is mostly limited to the surrounding commercial area and views from the closest residential area on South Main Street are minimal. Visibility from Route 8 will be minimally increased, however it is respectfully submitted that this change will not adversely impact motorists on the highway.

Included in Attachment 6 is a copy of the summary of ATC's NEPA review for the proposed modification to the existing facility ("NEPA checklist"). The attached NEPA checklist further supports that AT&T's proposed modification will not have a substantial adverse environmental effect. Also enclosed in Attachment 6 is confirmation that the proposed extension of the existing monopole will not require registration with the FAA.

A. Minimal Physical Impact

AT&T's proposed modifications will not result in any additional disturbance to the site as it will not be a vertical extension of the existing pole. Existing access to the site will continue to be utilized and no tree removal or ground disturbance is necessary for these modifications. The facility is unmanned and requires no water or wastewater connections and generates no waste.

B. Compliance with MPE Limits

The operation of AT&T's antennas on the proposed extension along with the operation of Verizon Wireless' antennas will not increase the total radio frequency electromagnetic power density at the site to a level at or above applicable standards. A power density report is included in Attachment 7. The total radio frequency power density will be 83.65% of the allowable FCC established general public limit at ground level and well within standards adopted by the Connecticut Department of Environmental Protection as set forth in Section 22a-162 of the Connecticut General Statutes.

V. AT&T's Need for the Proposed Modification to Provide Reliable Service

Included in Attachment 8 are AT&T radio frequency coverage maps which depict existing coverage at AT&T's current antenna height of approximately 49' and proposed coverage from the proposed modification antenna height of 90'. As shown in these maps¹, AT&T needs the proposed modification to provide reliable service within its network in this area of Naugatuck. As such, while the Council does not have to find a public need for the facility as part of a ruling on this Petition, it is respectfully submitted that the enclosed information fully demonstrates the need for the proposed modification to provide reliable wireless services to the public.

VI. Notice of Petition Filing

Pursuant to R.C.S.A. Section 16-50j-40(a), notice of AT&T's intent to file this Petition was sent to each person appearing of record as an owner of property that abuts the site, as well as the appropriate municipal officials and government agencies as listed in Section 16-50e of the C.G.S. Certification of such notice, a copy of the notice and the list of property owners is included in Attachment 9 along with the map from the Borough's GIS website used to identify abutting property owners. Attachment 9 includes a certification of service to municipal officials and government agencies to whom notice was sent.

¹ AT&T's coverage maps are shown in "RSRP" or Referenced Signal Received Power, which is the metric used to evaluate LTE service.

VII. Conclusion

As set forth herein, AT&T's proposed modifications to the existing wireless facility are wholly consistent with legislative findings outlined in C.G.S. Sections 16-50g and 16-50aa that seek to avoid the unnecessary proliferation of towers in the State. It is respectfully submitted that AT&T's facility does not present any significant adverse environmental effects as listed in Section 16-50p of the General Statutes. Therefore and for all the foregoing reasons, AT&T petitions the Connecticut Siting Council for a determination that the proposed wireless telecommunications facility does not require a Certificate of Environmental Compatibility and Public Need and that the Council issue an order approving same.

Respectfully Submitted,



Lucia Chiocchio, Esq.
On behalf of the Petitioner, AT&T
Cuddy & Feder, LLP
445 Hamilton Avenue, 14th Floor
White Plains, New York 10601
(914) 761-1300

1



LETTER OF AUTHORIZATION

ATC SITE # / NAME: 302526 /Naugatuck (Telephone Pole)
SITE ADDRESS: 585 South Main St, Naugatuck Connecticut
LICENSEE: New Cingular Wireless d/b/a AT&T Mobility

I, Margaret Robinson, Senior Counsel for American Tower*, owner of the tower facility located at the address identified above (the "Tower Facility"), do hereby authorize **New Cingular Wireless d/b/a AT&T Mobility**, its successors and assigns, and/or its agent, (collectively, the "Licensee") to act as American Tower's non-exclusive agent for the sole purpose of filing and consummating any land-use or building permit application(s) as may be required by the applicable permitting authorities for Licensee's telecommunications' installation.

We understand that this application may be denied, modified or approved with conditions. The above authorization is limited to the acceptance by Licensee only of conditions related to Licensee's installation and any such conditions of approval or modifications will be Licensee's sole responsibility.

Signature:

Print Name: Margaret Robinson
Senior Counsel
American Tower*

NOTARY BLOCK

Commonwealth of MASSACHUSETTS
County of Middlesex

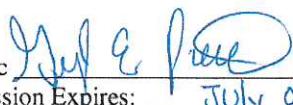
This instrument was acknowledged before me by Margaret Robinson, Senior Counsel for American Tower*, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same.

WITNESS my hand and official seal, this 21st day of June, 2017.

NOTARY SEAL



GENYS E. PEREZ
Notary Public
Commonwealth of Massachusetts
My Commission Expires
July 1, 2022

Notary Public 
My Commission Expires: July 01, 2022

*American Tower includes all affiliates and subsidiaries of American Tower Corporation.

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Staff Report:
Petition 623
Verizon
585 New Haven Road (Route 63), Naugatuck
May 6, 2003

On Monday, May 05, 2003, Council member Gerry Heffernan and staff member David Martin met with Verizon representatives Ken Baldwin and Sandy Carter at 585 New Haven Road, Naugatuck. At this location, there is a 49-foot tall wooden pole on which Cingular currently has a set of wireless antennas. The pole is at the edge of the parking lot behind a café. From the parking lot, the land slopes very steeply down to Route 8. Verizon is seeking to replace the wooden pole with a steel monopole of the same height. Cingular's antennas would be placed on the top of the new pole; Verizon would install 12 antennas ten feet below at about 40 feet AGL. The new pole would be located approximately 15 feet northeast of the existing pole. Verizon would add a 12' x 30' equipment shelter just north of the replacement pole.

The area surrounding the petition property is primarily commercial. The low height of the existing tower and its location behind the café minimize its visual impact from Route 63. The tower does have some visibility from Route 8, but at 50 feet, it is not much higher than the surrounding trees and it's at a much higher elevation than the highway making it less likely to be noticed by passing drivers.

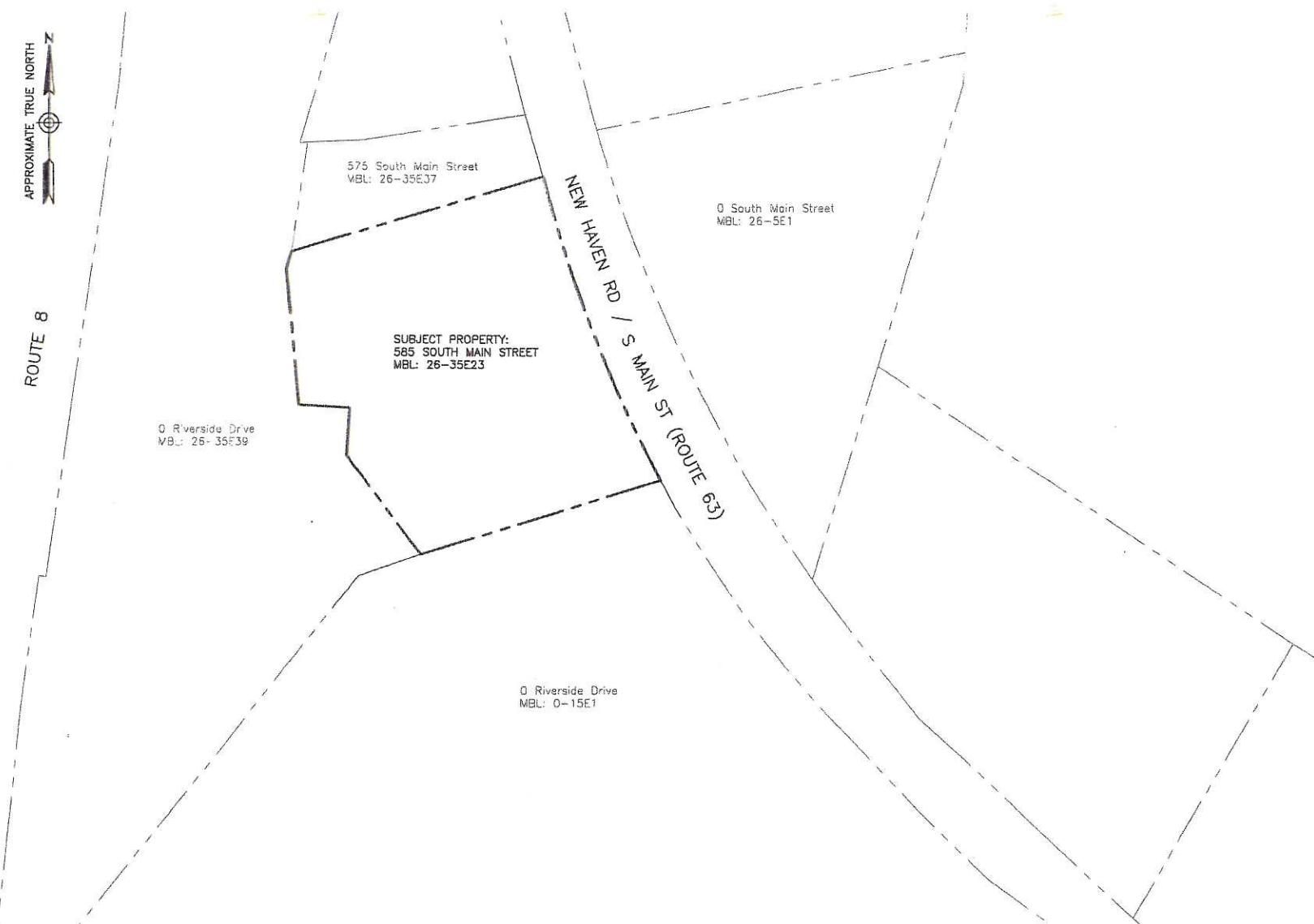
According to calculations submitted by Verizon, at the point where the power density generated by the replacement facility would be the highest, it would represent approximately 2.55 % of the regulatory limit.

Based on the evidence presented in the petition and the field review, it is unlikely that this proposed tower replacement would create any significant adverse environmental impacts.

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APPROXIMATE TRUE NORTH

ROUTE 8



NOTES:

1. ABUTTERS LIST CONSISTS OF PARCELS PHYSICALLY TOUCHING THE SUBJECT PROPERTY OR ABUT ACROSS THE STREET FROM THE SUBJECT PROPERTY.
2. PERIMETER PLAN DATA & ABUTTERS INFORMATION WAS COMPILED FROM INFORMATION OBTAINED FROM THE BOROUGH OF NAUGATUCK'S GIS WEBSITE.

PERIMETER PLAN

SCALE: 1"=100' FOR 11" x 17"
1"=50' FOR 22" x 34"

1

0' 50' 100'

ABUTTERS LIST				
MBL	ACCOUNT	PROPERTY LOCATION	OWNER	MAILING ADDRESS
0-15E1	075-0190	0 RIVERSIDE DRIVE	GROVE CEMETARY ASSOC	PO BOX 824, NAUGATUCK, CT 06770
26-35E39	074-9590	0 RIVERSIDE DRIVE	STATE OF CONNECTICUT	C/O LAND ACQUISITION DIVISION, HARTFORD, CT 06106
26-35E37	066-7210	575 SOUTH MAIN STREET	FRITCH SETH D	1 GLENWOOD AVENUE, NAUGATUCK, CT 06770
26-5E1	016-9651	0 SOUTH MAIN STREET	NOCE RINO FAMILY LP	628 NEW HAVEN ROAD, STE B, NAUGATUCK, CT 06770

GENERAL NOTES

1. SUBJECT PROPERTY KNOWN AS MBL 26-35E23 & ACCOUNT 011-8400 AS SHOWN ON THE BOROUGH OF NAUGATUCK'S GIS WEBSITE.
2. APPLICANT: AT&T MOBILITY
500 ENTERPRISE DRIVE SUITE 3A
ROCKY HILL, CT 06067
3. PROPERTY OWNER: THE OFFICE LLC
585 SOUTH MAIN STREET
NAUGATUCK, CT 06770
4. PERIMETER PLAN DATA & ABUTTERS INFORMATION WAS COMPILED FROM INFORMATION OBTAINED FROM THE BOROUGH OF NAUGATUCK'S GIS WEBSITE.
5. PARCEL AREA = 1.76± ACRES BASED ON INFORMATION OBTAINED FROM THE BOROUGH OF NAUGATUCK'S GIS WEBSITE.
6. ACCORDING TO THE FLOOD INSURANCE RATE MAP, THIS PROPERTY IS LOCATED IN AN AREA DESIGNATED AS ZONE X - "AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN," PER MAP NUMBER 09009C0256H, PANEL 256 OF 635, NEW HAVEN COUNTY, CONNECTICUT (ALL JURISDICTIONS), EFFECTIVE DATE: DECEMBER 17, 2010.
7. BASED ON THE U.S. FISH & WILDLIFE SERVICE, NATIONAL WETLANDS INVENTORY, WETLAND MAPPER, THE CLOSEST WETLAND TO THE EXISTING TOWER LOCATION IS 295'±.
8. BASED ON THE BOROUGH OF NAUGATUCK'S GIS WEBSITE, THERE ARE 23 HOMES WITHIN 1,000' OF THE EXISTING TOWER AND THE CLOSEST RESIDENCE IS 160'±.
9. BASED ON THE BOROUGH OF NAUGATUCK'S GIS WEBSITE, THE DISTANCE FROM THE EXISTING TOWER TO THE NEAREST PROPERTY LINE IS 17'±.
10. BASED ON THE BOROUGH OF NAUGATUCK'S GIS WEBSITE, THE DISTANCE FROM THE EXISTING TOWER TO THE TOWN OF BEACON FALLS IS 3,507'.
11. BASED ON THE BOROUGH OF NAUGATUCK'S GIS WEBSITE, THERE ARE NO SCHOOLS OR CHILD DAY CARE CENTERS WITHIN 1,000' OF THE EXISTING TOWER LOCATION. THE NEAREST SCHOOL IS CROSS STREET INTERMEDIATE SCHOOL WHICH IS 2,650'± FROM THE EXISTING TOWER LOCATION.
12. NO TREES WILL BE REMOVED DUE TO THE PROPOSED INSTALLATION.
13. THE PROPOSED USE IS FOR TELECOMMUNICATIONS AND IS NOT INTENDED FOR PERMANENT EMPLOYEE OCCUPANCY. THEREFORE, POTABLE WATER, SANITARY SEWER AND ADDITIONAL ON-SITE PARKING ARE NOT REQUIRED.
14. FACILITY SHALL BE VISITED ON THE AVERAGE OF ONCE A MONTH FOR MAINTENANCE AND SHALL BE CONTINUOUSLY MONITORED FROM A REMOTE FACILITY.
15. ALL WORK SHALL CONFORM TO ALL CURRENT APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING ANSI/EIA/TIA-222, AND COMPLY WITH AT&T MOBILITY SPECIFICATIONS.
16. CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" (1-800-922-4455) FOR IDENTIFICATION OF UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION.
17. NO LIGHTING AT THE TOWER IS PROPOSED OR REQUIRED BY THE FCC OR FAA.
18. THERE WILL NOT BE ANY SIGNS OR ADVERTISING ON THE ANTENNAS OR EQUIPMENT.



500 ENTERPRISE DRIVE SUITE 3A
ROCKY HILL, CT 06067



27 NORTHWESTERN DRIVE
SALEM, NH 03079

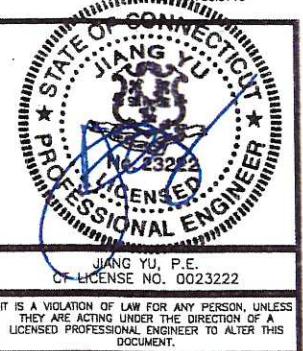
CT2166
NAUGATUCK SOUTH
MAIN

CERTIFICATE DRAWINGS

0	07/11/17	ISSUED FOR FLING
B	06/27/17	REVISED PER COMMENTS
A	06/06/17	PRELIMINARY SUBMISSION

Dewberry®

Dewberry Engineers Inc.
600 PARSIPPANY ROAD
SUITE 301
PARSIPPANY, NJ 07054
PHONE: 973.739.9400
FAX: 973.739.9710



JIANG YU, P.E.
CT LICENSE NO. 0023222
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS
THEY ARE ACTING UNDER THE DIRECTION OF A
LICENSED PROFESSIONAL ENGINEER TO ALTER THIS
DOCUMENT.

DRAWN BY: JC

REVIEWED BY: BSH

CHECKED BY: GHN

PROJECT NUMBER: 50055106

JOB NUMBER: 50065690

SITE ADDRESS:

585 SOUTH MAIN STREET
NAUGATUCK, CT 06770
NEW HAVEN COUNTY

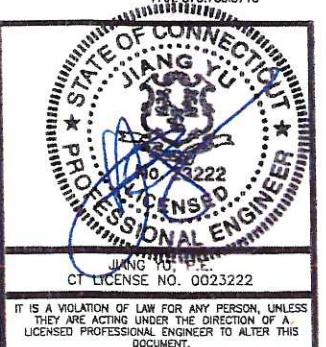
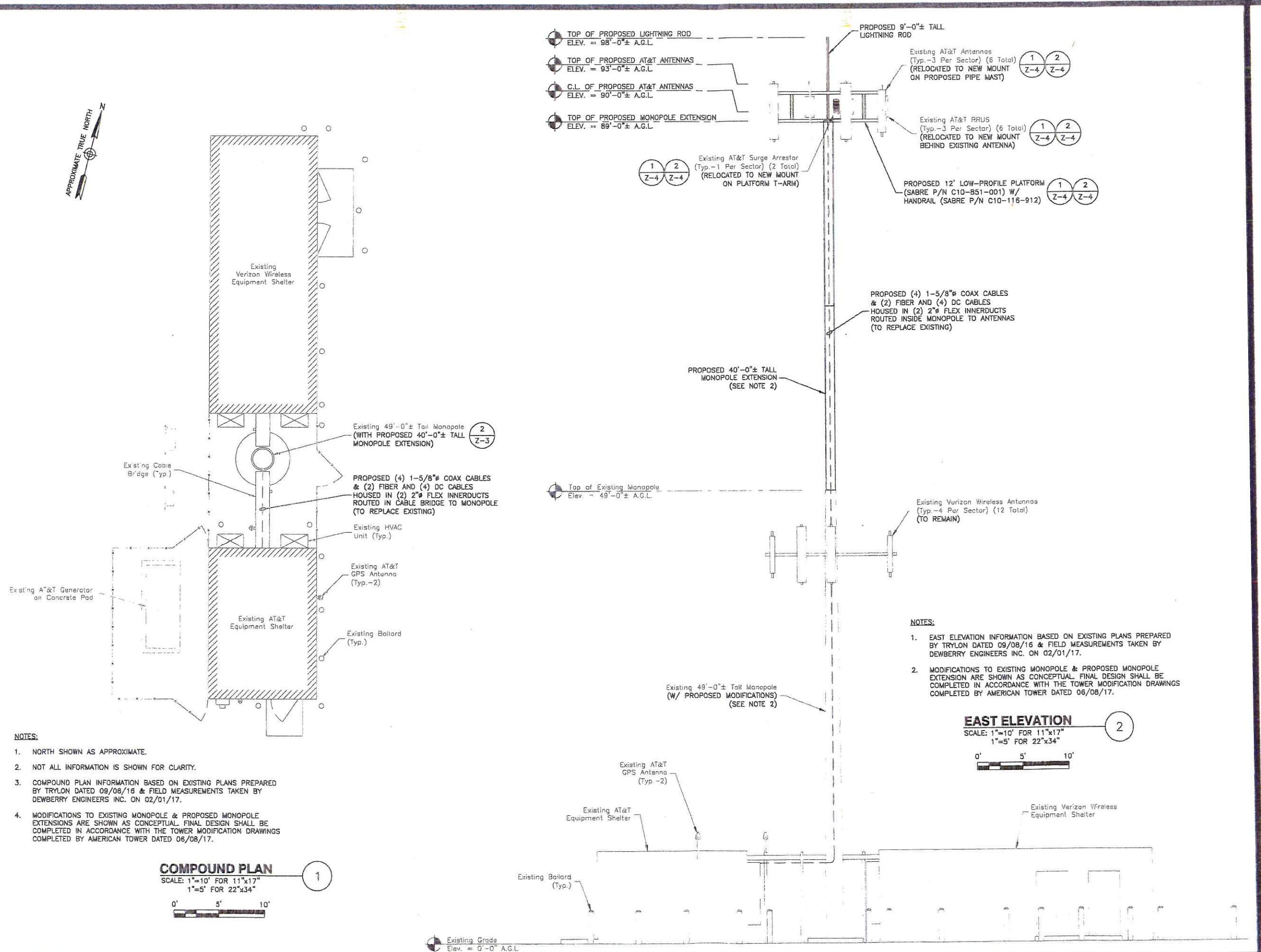
SHEET TITLE:

PERIMETER PLAN
& ABUTTERS LIST

SHEET NUMBER:

Z-1





585 SOUTH MAIN STREET
NAUGATUCK, CT 06770
NEW HAVEN COUNTY

SHEET TITLE

COMPOUND PLAN &
EAST ELEVATION

SHEET NUMBER

7-3



500 ENTERPRISE DRIVE SUITE 3A
ROCKY HILL, CT 06067



27 NORTHWESTERN DRIVE
SALEM, NH 03079

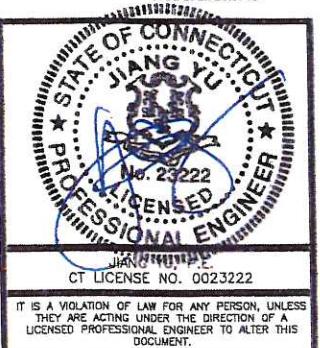
**CT2166
NAUGATUCK SOUTH
MAIN**

CERTIFICATE DRAWINGS

0 07/11/17 ISSUED FOR FILING
 B 06/27/17 REVISED PER COMMENTS
 A 06/06/17 PRELIMINARY SUBMISSION

Dewberry®

Dewberry Engineers Inc.
600 PARISIPAN ROAD
SUITE 301
PARISIPAN, NJ 07054
PHONE: 973.739.9400
FAX: 973.739.9710



DRAWN BY: JC
 REVIEWED BY: BSH
 CHECKED BY: GHN
 PROJECT NUMBER: 50055106
 JOB NUMBER: 50065690
 SITE ADDRESS:

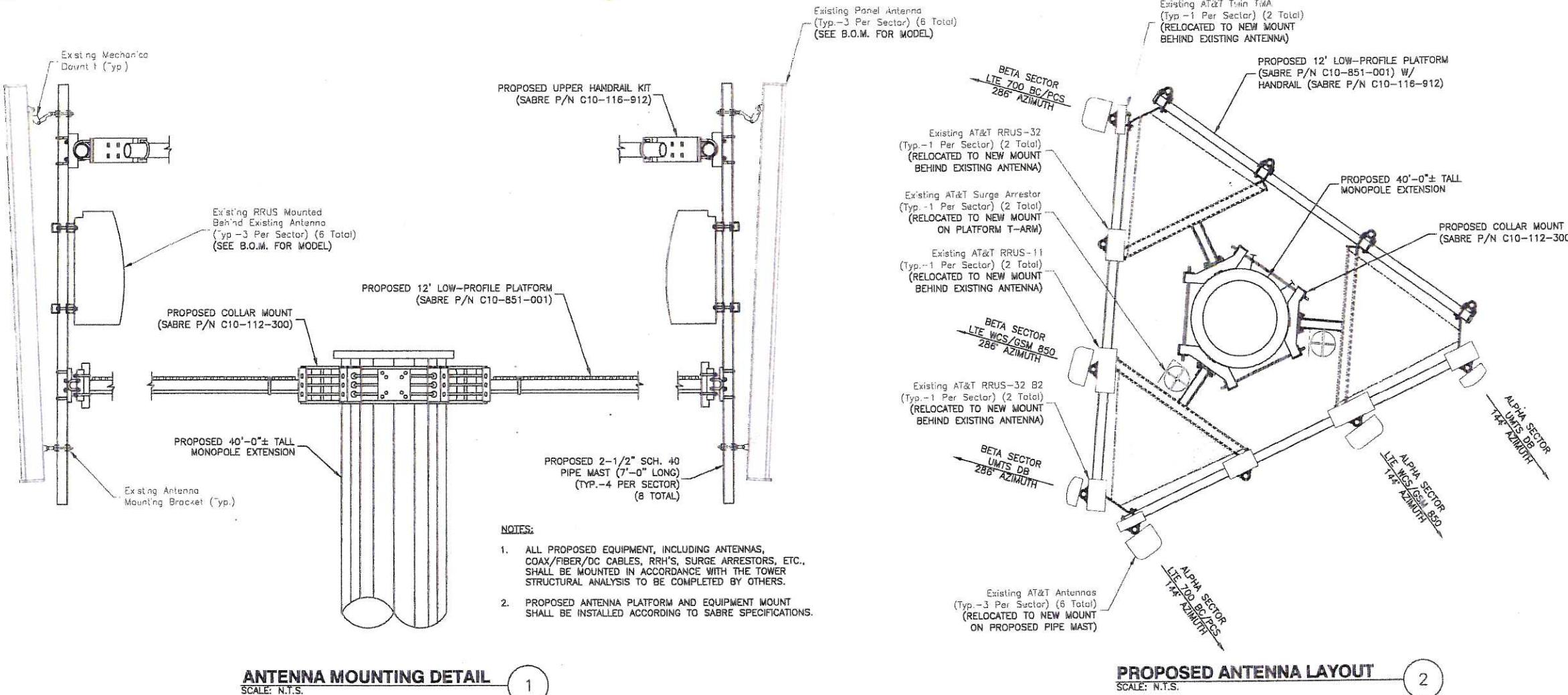
585 SOUTH MAIN STREET
NAUGATUCK, CT 06770
NEW HAVEN COUNTY

SHEET TITLE

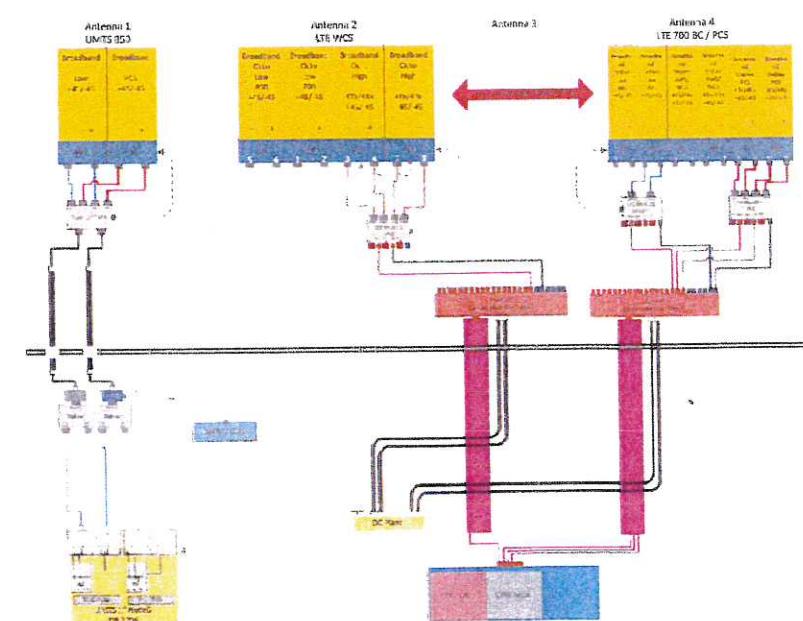
CONSTRUCTION DETAILS

SHEET NUMBER

Z-4



ANTENNA B.O.M.								
#	ANTENNA MODEL	ANTENNA SIZE (HxWxD, WEIGHT)	TECHNOLOGY	ANTENNA AZIMUTH	MECHANICAL DOWNTILT	CABLES	RRH'S/TMA'S	
ALPHA	A1	POWERWAVE 7770.00	55.0"x11.0"x5.0", 35 LBS	UMTS DB	144°	0°	(4) 1-5/8" COAX CABLES (2) ERICSSON RRUS-11 (19.7"x17.0"x7.2", 55.0 LBS) (2) ERICSSON RRUS-32 (27.2"x12.1"x7.0", 53.0 LBS) (2) ERICSSON RRUS-32 B2 (27.2"x12.1"x7.0", 53.0 LBS) (2) RAYCAP DC6-48-60-18-BF (23.5"x9.7", 20.0 LBS) (2) CCI DTMABP7819VG12A (10.63"x11.02"x3.78", 19.18 LBS)	(2) ERICSSON RRUS-11 (2) ERICSSON RRUS-32 (2) ERICSSON RRUS-32 B2 (2) RAYCAP DC6-48-60-18-BF (2) CCI DTMABP7819VG12A
	A2	CCI OPA-65R-LCUU-H6	72.3"x14.4"x7.3", 73 LBS	LTE WCS	144°	0°		
	A3	-	-	-	-	-		
	A4	QUINTEL QS66512-2	72.0"x12.0"x9.6", 111 LBS	LTE 700 BC/PCS	144°	0°		
BETA	B1	POWERWAVE 7770.00	55.0"x11.0"x5.0", 35 LBS	UMTS DB	286°	0°		
	B2	CCI OPA-65R-LCUU-H6	72.3"x14.4"x7.3", 73 LBS	LTE WCS	286°	0°		
	B3	-	-	-	-	-		
	B4	QUINTEL QS66512-2	72.0"x12.0"x9.6", 111 LBS	LTE 700 BC/PCS	286°	0°		



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Post-Modification Structural Analysis Report

Structure : 49 ft Monopole w/ Proposed 40 ft Extension
ATC Site Name : Naugatuck (Telephone Pole), CT
ATC Site Number : 302526
Engineering Number : OAA698250_C4_04
Proposed Carrier : AT&T Mobility
Carrier Site Name : Naugatuck South Main
Carrier Site Number : CT2166
Site Location : 585 South Main St. (soc. Club)
Naugatuck, CT 06770-4725
41.478400,-73.048500
County : New Haven
Date : July 19, 2017
Max Usage : 82%
Result : Pass*

Prepared By:
Travis J. Gatling
Structural Engineer I

Reviewed By:



Jul 21 2017 2:06 PM

COA: PEC.0001553



Eng. Number OAA698250_C4_04

July 19, 2017

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Calculations	Attached

Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 49 ft Monopole w/ Proposed 40 ft Extension to reflect the change in loading by AT&T Mobility.

Supporting Documents

Tower Drawings	EEI Job #11696, dated January 22, 2001
Foundation Drawing	EEI Job #11696, dated June 5, 2003
Geotechnical Report	CET Project #07729-76, dated March 28, 2003
Modifications	ATC Project #OAA698250_C6_03, dated June 8, 2017*

*The modifications by ATC Project #OAA698250_C6_03 are scheduled to be installed by March 25, 2018.

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:	97 mph (3-Second Gust V_{ASD}) / 125 mph (3-Second Gust V_{ULT})
Basic Wind Speed w/ Ice:	50 mph (3-Second Gust) w/ 3/4" radial ice concurrent
Code:	ANSI/TIA-222-G / 2012 IBC / 2016 Connecticut State Building Code
Structure Class:	II
Exposure Category:	B
Topographic Category:	1
Crest Height:	0 ft
Spectral Response:	$S_s = 0.19, S_1 = 0.06$
Site Class:	D - Stiff Soil

Conclusion

Based on the analysis results, the structure meets the requirements per the applicable codes listed above. The tower and foundation can support the equipment as described in this report. If the pending modifications cited in the Supporting Documents table are not completed by the forecast date above, the results of this analysis are no longer valid, and AT&T Mobility should contact American Tower's Site Manager for further direction on how to proceed.

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



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Existing and Reserved Equipment

Elevation ¹ (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
42.0	42.0	6	RFS FD9R6004/1C-3L	Low Profile Platform	(12) 7/8" Coax (2) 1 5/8" Hybriflex	Verizon
		3	Alcatel-Lucent RRH2X60-1900			
		3	Alcatel-Lucent RRH2X60-AWS			
		3	Alcatel-Lucent RRH2x60 700			
		6	Decibel DB844H80E-XY			
		2	RFS DB-T1-6Z-8AB-0Z			
		6	Commscope SBNHH-1D65B			

Equipment to be Removed

Elevation ¹ (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
52.0	52.0	2	Powerwave 7770.00	Platform w/ Handrails	(8) 1 5/8" Coax (4) 0.78" 8 AWG 6 (2) 0.39" Fiber Trunk (2) 2" conduit (1) 0.51" Hybrid	AT&T Mobility
		2	CCI OPA-65R-LCUU-H6			
		2	Quintel QS66512-2			
		4	Powerwave CM1007-DBPXBC-003			
		4	CCI DTMABP7819VG12A			
		2	Raycap DC6-48-60-18-8F			
		2	Ericsson RRUS-32			
		2	Ericsson RRUS 32 B2			
		2	Ericsson RRUS 11 (Band 12) (55 lb)			

Proposed Equipment

Elevation ¹ (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
89.0	90.0	4	Powerwave CM1007-DBPXBC-003	Sabre 12' V-Boom C10857011	(8) 1 5/8" Coax (2) 2" conduit (4) 0.78" 8 AWG 6 (2) 0.39" Fiber Trunk (1) 0.51" Hybrid	AT&T Mobility
		4	CCI DTMABP7819VG12A			
		2	Raycap DC6-48-60-18-8F ("Squid")			
		2	Ericsson RRUS 11 (Band 12) (55 lb)			
		2	Ericsson RRUS 32 (50.8 lbs)			
		2	Ericsson RRUS 32 B2			
		2	Powerwave 7770.00			
		2	Quintel QS66512-2			
		2	CCI OPA-65R-LCUU-H6			

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

Install proposed coax inside the pole shaft.



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Page 3

Structure Usages

Structural Component	Controlling Usage	Pass/Fail
Anchor Bolts	19%	Pass
Shaft	66%	Pass
Base Plate	31%	Pass
Flanges	27%	Pass
Reinforcement	50%	Pass

Foundations

Reaction Component	Analysis Reactions	% of Usage
Moment (Kips-Ft)	509.8	82%
Axial (Kips)	16.4	81%
Shear (Kips)	9.5	31%

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) (°)
89.0	Powerwave Allgon CM1007-DBPXBC-003	AT&T Mobility	0.535	0.708
	CCI DTMABP7819VG12A			
	Raycap DC6-48-60-18-8F ("Squid")			
	Raycap DC6-48-60-18-8F ("Squid")			
	Ericsson RRUS 11 (Band 12) (55 lb)			
	Ericsson RRUS 32 (50.8 lbs)			
	Ericsson RRUS 32 B2			
	Powerwave Allgon 7770.00			
	Quintel QS66512-2			
	CCI OPA-65R-LCUU-H6			

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



Standard Conditions

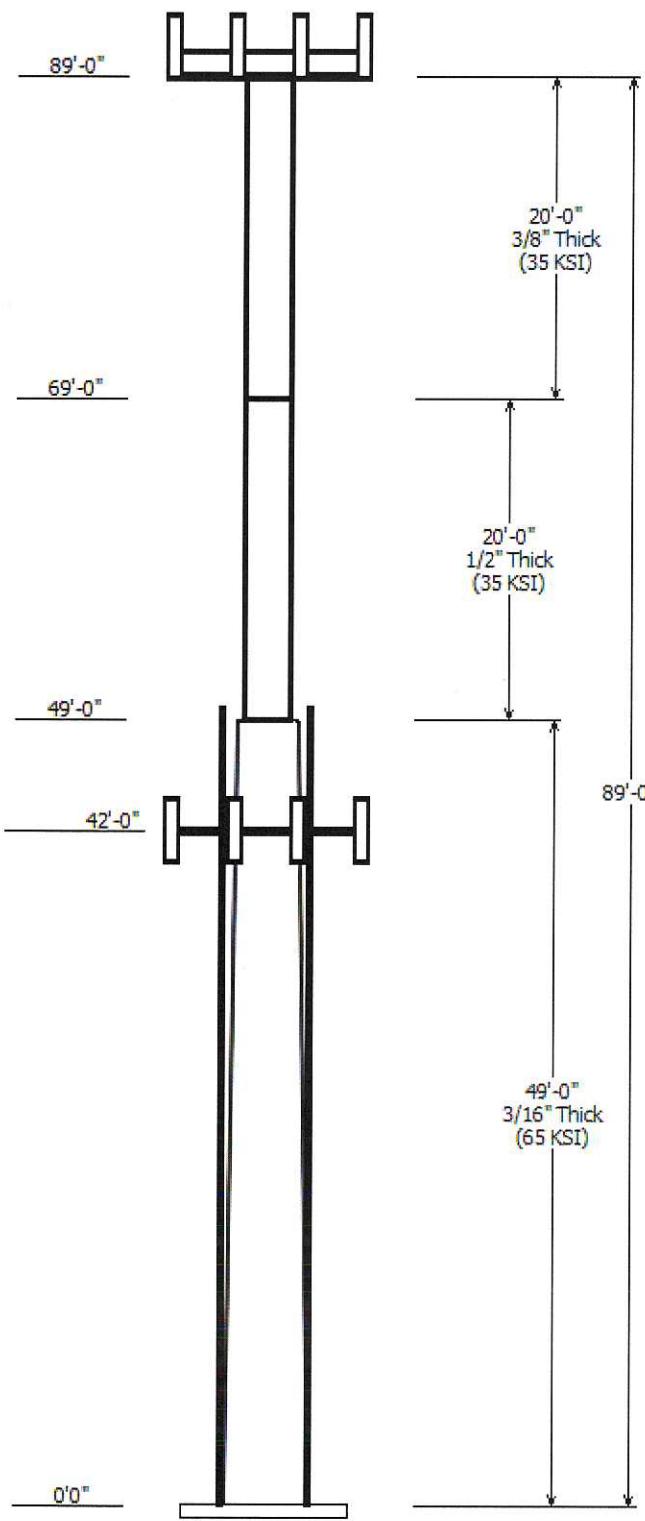
All engineering services are performed on the basis that the information used is current and correct. This information may consist of, but is not necessarily limited, to:

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

It is the responsibility of the client to ensure that the information provided to A.T. Engineering Service, PLLC and used in the performance of our engineering services is correct and complete. In the absence of information to the contrary, we assume that all structures were constructed in accordance with the drawings and specifications and that their capacity has not significantly changed from the "as new" condition.

Unless explicitly agreed by both the client and American Tower Corporation, all services will be performed in accordance with the current revision of ANSI/TIA-222. The design basic wind speed will be determined based on the minimum basic wind speed as prescribed in ANSI/TIA-222. Although every effort is taken to ensure that the loading considered is adequate to meet the requirements of all applicable regulatory entities, we can provide no assurance to meet any other local and state codes or requirements. If wind and ice loads or other relevant parameters are to be different from the minimum values recommended by the codes, the client shall specify the exact requirement.

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



Job Information	
Pole : 302526	Code: ANSI/TIA-222-G
Description : 49' EEI Monopole w/ Proposed 40 ft extension	
Client : AT&T MOBILITY	Struct Class : II
Location : Naugatuck (telephone Pole), CT	
Shape : 18 Sides	Exposure : B
Height : 89.00 (ft)	Topo : 1
Base Elev (ft): 0.00	
Taper: 0.183673in/ft)	

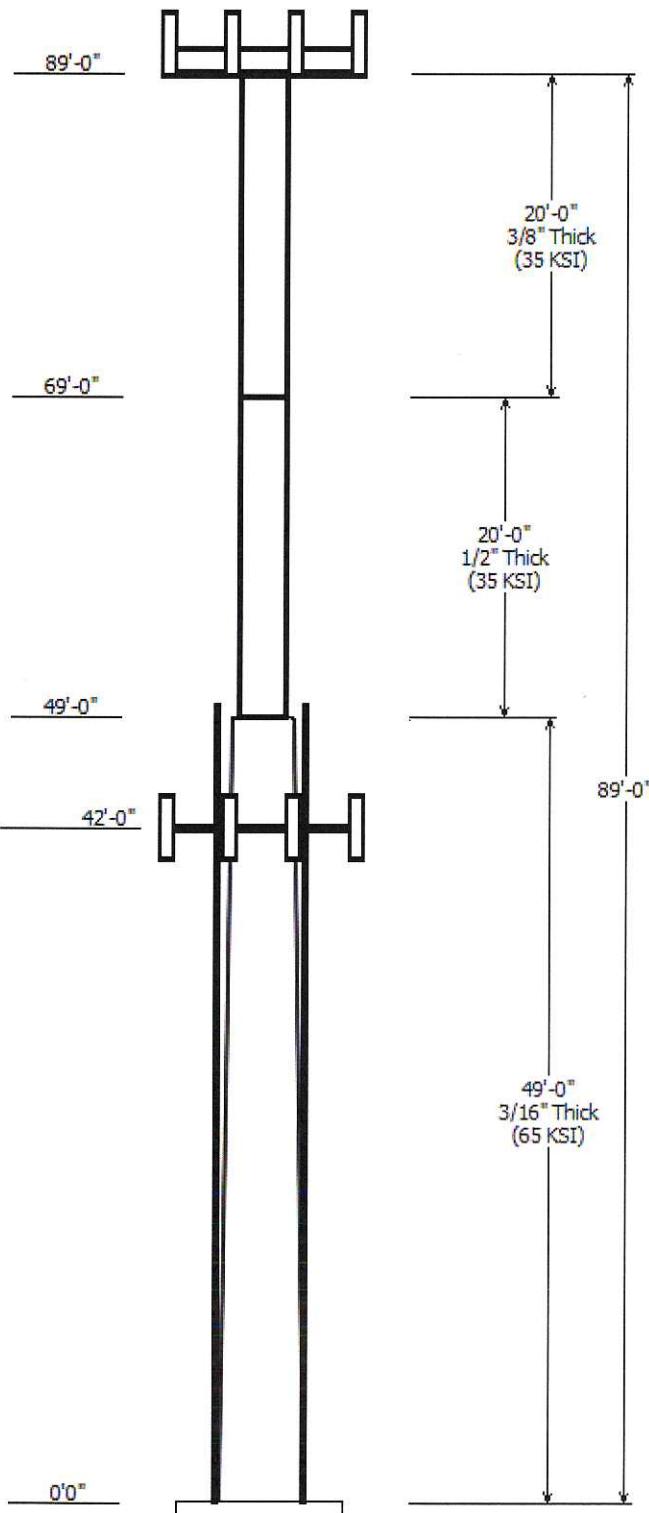
Sections Properties							
Shaft Section	Length (ft)	Diameter (in) Across Flats	Overlap Length (in)	Steel Taper (in/ft)	Steel Grade	Thick (in)	Joint Type
1	49.000	14.00	23.00	0.188	65	0.183700	
2	20.000	12.75	12.75	0.500	35	0.000000	Butt Joint
3	20.000	12.75	12.75	0.375	35	0.000000	Butt Joint

Discrete Appurtenance			
Attach Elev (ft)	Force Elev (ft)	Qty	Description
89.000	89.000	1	Round Platform w/ Handrails
89.000	90.000	2	Ericsson RRUS 11 (Band 12) (55
89.000	90.000	1	Raycap DC6-48-60-18-8F
89.000	90.000	4	CCI DTMABP7819VG12A
89.000	90.000	4	Powerwave Allgon CM1007-
89.000	90.000	2	Quintel QS66512-2
89.000	90.000	2	CCI OPA-65R-LCUU-H6
89.000	90.000	2	Powerwave Allgon 7770.00
89.000	90.000	2	Ericsson RRUS 32 B2
89.000	90.000	2	Ericsson RRUS 32 (50.8 lbs)
89.000	90.000	1	Raycap DC6-48-60-18-8F
42.000	42.000	1	Flat Low Profile Platform
42.000	42.000	6	Commscope SBNHH-1D65B
42.000	42.000	2	RFS DB-T1-6Z-8AB-0Z
42.000	42.000	6	Decibel DB844H80E-XY
42.000	42.000	3	Alcatel-Lucent RRH2x60 700
42.000	42.000	3	Alcatel-Lucent RRH2X60-1900
42.000	42.000	3	Alcatel-Lucent RRH2X60-AWS
42.000	42.000	6	RFS FD9R6004/1C-3L

Linear Appurtenance			
Elev (ft) From	Elev (ft) To	Description	Exposed To Wind
49.000	89.000	2" conduit	Yes
0.000	42.000	1 5/8" Hybriflex	No
0.000	42.000	7/8" Coax	No
0.000	49.000	2" conduit	No
0.000	53.500	#20 Threaded Bar	Yes
0.000	89.000	0.39" (10mm)	No
0.000	89.000	0.51" (13mm)	No
0.000	89.000	0.78" (19.7mm) 8	No
0.000	89.000	1 5/8" Coax	Yes

Load Cases	
1.2D + 1.6W	97 mph with No Ice
0.9D + 1.6W	97 mph with No Ice (Reduced DL)
1.2D + 1.0Di + 1.0Wi	50 mph with 0.75 in Radial Ice
(1.2 + 0.2Sds) * DL + E	Seismic Equivalent Lateral Forces Method
(1.2 + 0.2Sds) * DL + E	Seismic Equivalent Modal Analysis Method
(0.9 - 0.2Sds) * DL + E	Seismic (Reduced DL) Equivalent Lateral

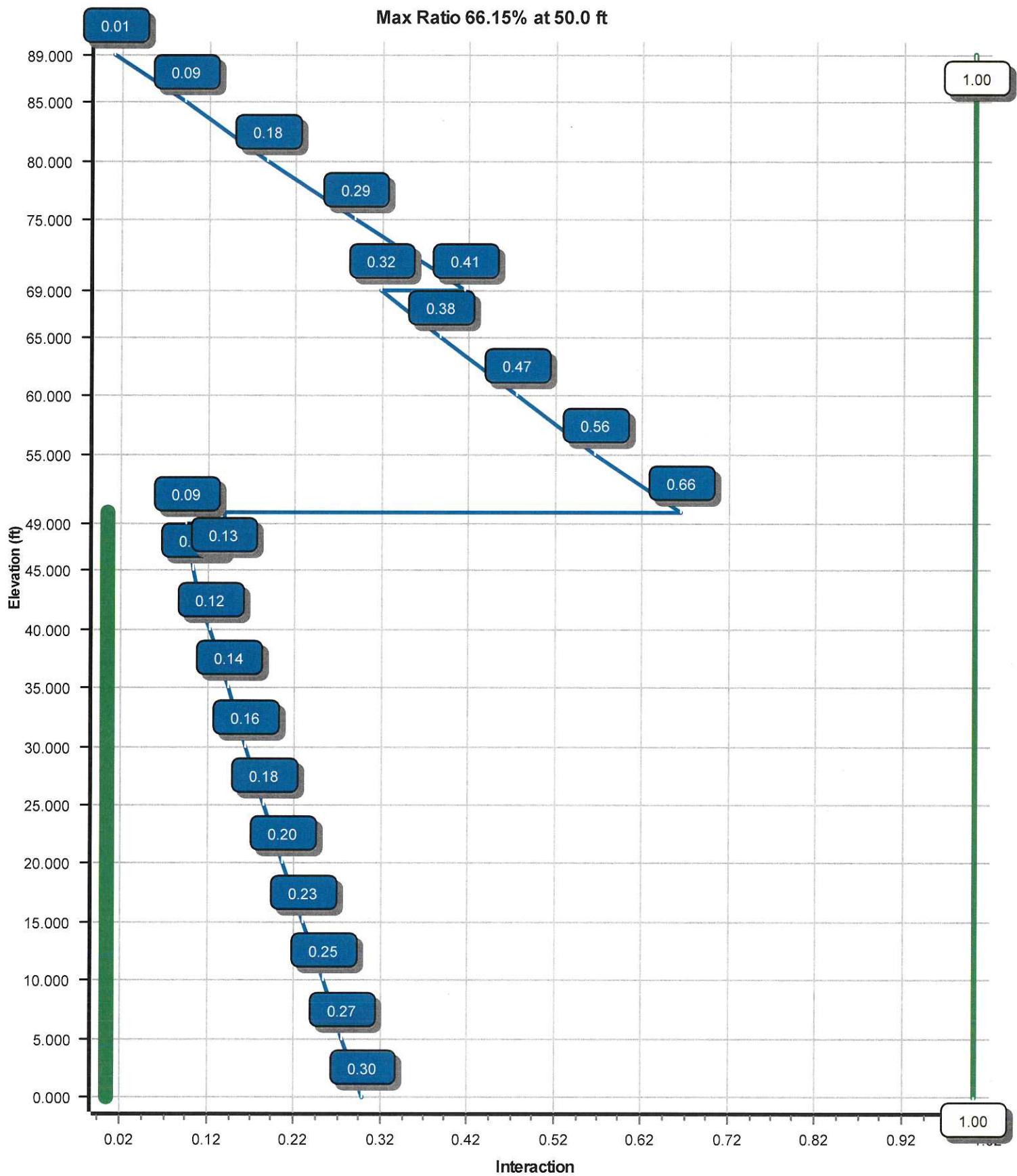
(0.9 - 0.2Sds) * DL + E Seismic (Reduced DL) Equivalent Modal
 1.0D + 1.0W Serviceability 60 mph



Reactions			
Load Case	Moment (kip-ft)	Shear (kip)	Axial (kip)
1.2D + 1.6W	509.75	9.47	16.44
0.9D + 1.6W	490.07	9.25	12.33
1.2D + 1.0Di + 1.0Wi	132.21	2.28	28.11
(1.2 + 0.2Sds) * DL + E ELF M	51.22	0.70	16.28
(1.2 + 0.2Sds) * DL + E EMAM	114.63	1.41	16.28
(0.9 - 0.2Sds) * DL + E ELF M	50.60	0.70	11.27
(0.9 - 0.2Sds) * DL + E EMAM	113.11	1.41	11.27
1.0D + 1.0W	119.97	2.28	13.71

Dish Deflections			
Load Case	Attach Elev (ft)	Deflection (in)	Rotation (deg)
	0.00	0.000	0.000

Load Case : 1.2D + 1.6W
Max Ratio 66.15% at 50.0 ft



Site Number: 302526

Code: ANSI/TIA-222-G

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Site Name: Naugatuck (telephone Pole), CT Engineering Number: OAA698250_C4_04

7/21/2017 12:04:45 PM

Customer: AT&T MOBILITY

Analysis Parameters

Location:	NEW HAVEN County, CT	Height (ft):	89
Code:	ANSI/TIA-222-G	Base Diameter (in):	23.00
Shape:	18 Sides. Sect 2: Round. Sect 3: RoundTop Diameter (in):		12.75
Pole Type:	Custom	Taper (in/ft) :	0.184
Pole Manufacturer:	EEI	Rotation (deg) :	0.00

Ice & Wind Parameters

Structure Class:	II	Design Wind Speed Without Ice:	97 mph
Exposure Category:	B	Design Wind Speed With Ice:	50 mph
Topographic Category:	1	Operational Wind Speed:	60 mph
Crest Height:	0.0 ft	Design Ice Thickness:	0.75 in

Seismic Parameters

Analysis Method: Equivalent Modal Analysis & Equivalent Lateral Force Methods

Site Class: D - Stiff Soil

Period Based on Rayleigh Method (sec): 1.75

T _L (sec):	6	p:	1.3	C _s :	0.039
S _s :	0.191	S _f :	0.064	C _s Max:	0.039
F _a :	1.600	F _v :	2.400	C _s Min:	0.030
S _{ds} :	0.204	S _{d1} :	0.102		

Load Cases

1.2D + 1.6W	97 mph with No Ice
0.9D + 1.6W	97 mph with No Ice (Reduced DL)
1.2D + 1.0Di + 1.0Wi	50 mph with 0.75 in Radial Ice
(1.2 + 0.2Sds) * DL + E ELF M	Seismic Equivalent Lateral Forces Method
(1.2 + 0.2Sds) * DL + E EMAM	Seismic Equivalent Modal Analysis Method
(0.9 - 0.2Sds) * DL + E ELF M	Seismic (Reduced DL) Equivalent Lateral Forces Method
(0.9 - 0.2Sds) * DL + E EMAM	Seismic (Reduced DL) Equivalent Modal Analysis Method
1.0D + 1.0W	Serviceability 60 mph

Site Number: 302526

Code: ANSI/TIA-222-G

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Site Name: Naugatuck (telephone Pole), CT Engineering Number: OAA698250_C4_04

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Customer: AT&T MOBILITY

Shaft Section Properties

Sect Info	Length (ft)	Thick (in)	Fy (ksi)	Joint Type	Joint Len (in)	Weight (lb)	Bottom				Top				Taper (in/ft)				
							Slip Dia (in)	Elev (ft)	Area (in ²)	I _x (in ⁴)	W/t Ratio	D/t Ratio	Slip Dia (in)	Elev (ft)	Area (in ²)	I _x (in ⁴)	W/t Ratio	D/t Ratio	
1-18	49.000	0.1875	65		0.00	1,817	23.00	0.00	13.58	892.6	20.22	122.67	14.00	49.00	8.22	198.1	11.76	74.67	0.183673
2-R	20.000	0.5000	35	Butt	0.00	1,310	12.75	49.00	19.24	361.2	0.00	25.50	12.75	69.00	19.24	361.2	0.00	25.50	0.000000
3-R	20.000	0.3750	35	Butt	0.00	992	12.75	69.00	14.58	279.3	0.00	34.00	12.75	89.00	14.58	279.3	0.00	34.00	0.000000
Shaft Weight						4,119													

Discrete Appurtenance Properties

Attach Elev (ft)	Description	Qty	No Ice			Ice			Distance From Face (ft)	Vert Ecc (ft)
			Weight (lb)	EPAa (sf)	Orientation Factor	Weight (lb)	EPAa (sf)	Orientation Factor		
89.00	CCI DTMABP7819VG12A	4	19.20	0.970	0.50	50.57	1.367	0.50	0.000	1.000
89.00	CCI OPA-65R-LCUU-H6	2	73.00	9.660	0.66	290.47	10.950	0.66	0.000	1.000
89.00	Ericsson RRUS 11 (Band 12)	2	55.00	2.520	0.67	130.18	3.128	0.67	0.000	1.000
89.00	Ericsson RRUS 32 (50.8 lbs)	2	50.80	2.690	0.67	130.68	3.376	0.67	0.000	1.000
89.00	Ericsson RRUS 32 B2	2	53.00	2.740	0.67	135.38	3.432	0.67	0.000	1.000
89.00	Powerwave Allgon 7770.00	2	35.00	5.510	0.65	161.46	6.505	0.65	0.000	1.000
89.00	Powerwave Allgon CM1007-	4	6.50	0.430	0.50	23.25	0.637	0.50	0.000	1.000
89.00	Quintel QS66512-2	2	111.00	8.130	0.74	324.24	9.356	0.74	0.000	1.000
89.00	Raycap DC6-48-60-18-8F	1	31.80	1.280	1.00	118.78	2.816	1.00	0.000	1.000
89.00	Raycap DC6-48-60-18-8F	1	31.80	1.280	1.00	118.78	2.816	1.00	0.000	1.000
89.00	Round Platform w/ Handrails	1	2000.00	27.200	1.00	3,229.60	50.396	1.00	0.000	0.000
42.00	Alcatel-Lucent RRH2x60 700	3	56.70	2.150	0.67	126.12	2.693	0.67	0.000	0.000
42.00	Alcatel-Lucent RRH2X60-	3	43.00	1.880	0.50	100.55	2.395	0.50	0.000	0.000
42.00	Alcatel-Lucent RRH2X60-	3	44.00	1.880	0.50	102.92	2.395	0.50	0.000	0.000
42.00	Commscope SBNHH-1D65B	6	50.70	8.170	0.69	225.24	9.309	0.69	0.000	0.000
42.00	Decibel DB844H80E-XY	6	14.00	3.610	0.74	108.29	4.390	0.74	0.000	0.000
42.00	Flat Low Profile Platform	1	1500.00	26.100	1.00	2,070.24	42.904	1.00	0.000	0.000
42.00	RFS DB-T1-6Z-8AB-0Z	2	44.00	4.800	0.67	167.52	5.561	0.67	0.000	0.000
42.00	RFS FD9R6004/1C-3L	6	3.10	0.370	0.50	13.81	0.543	0.50	0.000	0.000
Totals			53	5347.90		11,585.38			Number of Loadings : 19	

Linear Appurtenance Properties

Elev From (ft)	Elev To (ft)	Qty	Description	Coax Diameter (in)	Coax Weight (lb/ft)	Projected Flat	Width (in)	Exposed To Wind	Carrier
0.00	89.00	2	0.39" (10mm) Fiber	0.39	0.06	N	0.00	N	AT&T Mobility
0.00	89.00	1	0.51" (13mm) Hybrid	0.51	0.14	N	0.00	N	AT&T Mobility
0.00	89.00	4	0.78" (19.7mm) 8	0.78	0.59	N	0.00	N	AT&T Mobility
0.00	89.00	8	1 5/8" Coax	1.98	0.82	N	0.00	Y	AT&T Mobility
49.00	89.00	2	2" conduit	2.38	3.65	N	2.38	Y	AT&T Mobility
0.00	53.50	3	#20 Threaded Bar	2.50	0.00	N	6.00	Y	
0.00	49.00	2	2" conduit	2.38	3.65	N	0.00	N	AT&T Mobility
0.00	42.00	2	1 5/8" Hybriflex	1.98	1.30	N	0.00	N	Verizon
0.00	42.00	12	7/8" Coax	1.09	0.33	N	0.00	N	Verizon

Additional Steel

Elev From (ft)	Elev To (ft)	Qty	Description	— Intermediate Connections —				Connectors	Continuation?
				Fy (ksi)	Offset (in)	Description	Spacing (in)	Len (in)	
0.00	50.00	3	SOL #20 All Thread	80	6.25	6" Angle Bracket	30.0	3.31	5/8" A36 U-Bolt

Site Number: 302526

Code: ANSI/TIA-222-G

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Site Name: Naugatuck (telephone Pole), CT Engineering Number: OAA698250_C4_04

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Customer: AT&T MOBILITY

Segment Properties (Max Len : 5.ft)

Seg Top Elev (ft)	Description	Thick	Flat	Area (in ²)	Ix (in ⁴)	W/t Ratio	D/t Ratio	F'y (ksi)	S (in ³)	Z (in ³)	Weight (lb)	Additional Reinforcing		
		(in)	(in)									Area (in ²)	Ix (in ⁴)	Weight (lb)
0.00		0.1875	23.000	13.576	892.6	20.22	122.67	77.6	76.4	0.0	0.0	14.73	2,652	0.0
5.00		0.1875	22.082	13.029	789.1	19.36	117.77	78.6	70.4	0.0	226.3	14.73	2,523	250.5
10.00		0.1875	21.163	12.483	693.9	18.49	112.87	79.7	64.6	0.0	217.0	14.73	2,398	250.5
15.00		0.1875	20.245	11.936	606.7	17.63	107.97	80.7	59.0	0.0	207.7	14.73	2,276	250.5
20.00		0.1875	19.327	11.390	527.1	16.76	103.07	81.7	53.7	0.0	198.4	14.73	2,157	250.5
25.00		0.1875	18.408	10.843	454.8	15.90	98.18	82.6	48.7	0.0	189.1	14.73	2,041	250.5
30.00		0.1875	17.490	10.297	389.5	15.04	93.28	82.6	43.9	0.0	179.8	14.73	1,928	250.5
35.00		0.1875	16.571	9.750	330.7	14.17	88.38	82.6	39.3	0.0	170.5	14.73	1,819	250.5
40.00		0.1875	15.653	9.204	278.1	13.31	83.48	82.6	35.0	0.0	161.2	14.73	1,713	250.5
42.00		0.1875	15.286	8.985	258.8	12.96	81.52	82.6	33.3	0.0	61.9	14.73	1,671	100.2
45.00		0.1875	14.735	8.657	231.5	12.45	78.59	82.6	30.9	0.0	90.0	14.73	1,610	150.3
49.00	Top - Section 1	0.1875	14.000	8.220	198.1	11.76	74.67	82.6	27.9	0.0	114.9	14.73	1,530	200.4
49.00	Bot - Section 2	0.5000	12.750	19.242	361.2	0.00	25.50	35.0	56.7	75.1		14.73	1,530	
50.00	Reinf. Top	0.5000	12.750	19.242	361.2	0.00	25.50	35.0	56.7	75.1	65.5	14.73	1,423	50.1
55.00		0.5000	12.750	19.242	361.2	0.00	25.50	35.0	56.7	75.1				
60.00		0.5000	12.750	19.242	361.2	0.00	25.50	35.0	56.7	75.1				
65.00		0.5000	12.750	19.242	361.2	0.00	25.50	35.0	56.7	75.1				
69.00	Top - Section 2	0.5000	12.750	19.242	361.2	0.00	25.50	35.0	56.7	75.1				
69.00	Bot - Section 3	0.3750	12.750	14.579	279.3	0.00	34.00	35.0	43.8	57.4				
70.00		0.3750	12.750	14.579	279.3	0.00	34.00	35.0	43.8	57.4	49.6			
75.00		0.3750	12.750	14.579	279.3	0.00	34.00	35.0	43.8	57.4	248.0			
80.00		0.3750	12.750	14.579	279.3	0.00	34.00	35.0	43.8	57.4	248.0			
85.00		0.3750	12.750	14.579	279.3	0.00	34.00	35.0	43.8	57.4	248.0			
89.00		0.3750	12.750	14.579	279.3	0.00	34.00	35.0	43.8	57.4	198.4			

4,118.8

2,505.0

Site Number: 302526

Code: ANSI/TIA-222-G

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Site Name: Naugatuck (telephone Pole), CT Engineering Number: OAA698250 C4 04

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Customer: AT&T MOBILITY

Load Case: 1.2D + 1.6W

97 mph with No Ice

21 Iterations

Gust Response Factor :1.10

Wind Importance Factor 1.00

Dead Load Factor :1.20

Wind Load Factor :1.60

Applied Segment Forces Summary

Seg Elev (ft)	Description	Shaft Forces		Discrete Forces			Linear Forces		Sum of Forces			
		Wind FX	Dead Load	Wind FX	Torsion MY	Moment MZ	Dead Load	Wind FX	Dead Load	Wind FX	Dead Load	Torsion MY
		(lb)	(lb)	(lb)	(lb-ft)	(lb-ft)	(lb)	(lb)	(lb)	(lb)	(lb)	(lb)
0.00		161.3	0.0					0.0	0.0	161.3	0.0	0.0
5.00		316.1	271.6					66.7	438.8	382.8	710.4	0.0
10.00		302.9	260.4					66.7	438.8	369.6	699.3	0.0
15.00		289.8	249.3					66.7	438.8	356.5	688.1	0.0
20.00		276.6	238.1					66.7	438.8	343.3	677.0	0.0
25.00		263.5	227.0					66.7	438.8	330.2	665.8	0.0
30.00		253.3	215.8					66.7	438.8	320.0	654.6	0.0
35.00		247.8	204.6					67.5	438.8	315.3	643.5	0.0
40.00		171.5	193.5					68.9	438.8	240.3	632.3	0.0
42.00	Appertunance(s)	120.2	74.3	2,484.5	0.0	0.0	2,911.1	27.9	175.5	2,632.6	3,160.9	0.0
45.00		165.3	108.1					42.2	239.7	207.5	347.7	0.0
49.00	Top - Section 1	114.3	137.8					56.9	319.6	171.3	457.4	0.0
50.00	Reinf. Top	126.3	78.6					22.1	79.9	148.4	158.5	0.0
55.00		173.8	392.9					90.0	98.9	263.8	491.7	0.0
60.00		138.1	392.9					0.0	98.9	138.1	491.7	0.0
65.00		126.9	392.9					0.0	98.9	126.9	491.7	0.0
69.00	Top - Section 2	71.4	314.3					0.0	79.1	71.4	393.4	0.0
70.00		87.3	59.5					0.0	19.8	87.3	79.3	0.0
75.00		147.2	297.7					0.0	98.9	147.2	396.5	0.0
80.00		150.0	297.7					0.0	98.9	150.0	396.5	0.0
85.00		137.1	297.7					0.0	98.9	137.1	396.5	0.0
89.00	Appertunance(s)	61.4	238.1	2,436.2	0.0	1,389.1	3,506.4	0.0	79.1	2,497.7	3,823.6	0.0
										Totals:	9,598.47	16,456.6
											0.00	0.00

Site Number: 302526

Code: ANSI/TIA-222-G

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Site Name: Naugatuck (telephone Pole), CT Engineering Number: OAA698250_C4_04

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Customer: AT&T MOBILITY

Load Case: 1.2D + 1.6W

97 mph with No Ice

21 Iterations

Gust Response Factor :1.10

Wind Importance Factor 1.00

Dead Load Factor :1.20

Wind Load Factor :1.60

Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-16.44	-9.47	0.00	-509.75	0.00	509.75	948.37	474.19	888.66	444.99	0.00	0.00	0.297
5.00	-15.70	-9.13	0.00	-462.42	0.00	462.42	922.11	461.05	828.98	415.11	0.11	-0.20	0.274
10.00	-14.97	-8.81	0.00	-416.75	0.00	416.75	894.84	447.42	770.44	385.79	0.41	-0.38	0.250
15.00	-14.26	-8.49	0.00	-372.70	0.00	372.70	866.57	433.29	713.14	357.10	0.92	-0.57	0.227
20.00	-13.57	-8.18	0.00	-330.24	0.00	330.24	837.31	418.65	657.22	329.10	1.60	-0.74	0.204
25.00	-12.88	-7.88	0.00	-289.34	0.00	289.34	805.59	402.80	601.69	301.29	2.47	-0.90	0.182
30.00	-12.21	-7.58	0.00	-249.96	0.00	249.96	764.99	382.50	542.27	271.54	3.50	-1.06	0.162
35.00	-11.56	-7.28	0.00	-212.07	0.00	212.07	724.39	362.19	485.94	243.33	4.68	-1.20	0.141
40.00	-10.92	-7.04	0.00	-175.69	0.00	175.69	683.78	341.89	432.70	216.67	6.01	-1.33	0.120
42.00	-7.82	-4.34	0.00	-161.61	0.00	161.61	667.54	333.77	412.27	206.44	6.58	-1.37	0.110
45.00	-7.47	-4.13	0.00	-148.59	0.00	148.59	643.18	321.59	382.55	191.56	7.47	-1.44	0.102
49.00	-7.02	-3.96	0.00	-132.05	0.00	132.05	610.70	305.35	344.65	172.58	8.71	-1.53	0.092
49.00	-7.02	-3.96	0.00	-132.05	0.00	132.05	606.13	303.07	297.07	197.07	8.71	-1.53	0.135
50.00	-6.86	-3.81	0.00	-128.10	0.00	128.10	606.13	303.07	297.07	197.07	9.04	-1.55	0.138
50.00	-6.86	-3.81	0.00	-128.10	0.00	128.10	606.13	303.07	297.07	197.07	9.04	-1.55	0.661
55.00	-6.36	-3.56	0.00	-109.04	0.00	109.04	606.13	303.07	297.07	197.07	10.71	-1.65	0.564
60.00	-5.85	-3.45	0.00	-91.22	0.00	91.22	606.13	303.07	297.07	197.07	12.65	-2.04	0.473
65.00	-5.35	-3.32	0.00	-74.00	0.00	74.00	606.13	303.07	297.07	197.07	14.96	-2.37	0.384
69.00	-4.95	-3.25	0.00	-60.70	0.00	60.70	606.13	303.07	297.07	197.07	17.04	-2.58	0.316
69.00	-4.95	-3.25	0.00	-60.70	0.00	60.70	459.24	229.62	229.69	150.79	17.04	-2.58	0.414
70.00	-4.87	-3.17	0.00	-57.45	0.00	57.45	459.24	229.62	229.69	150.79	17.58	-2.62	0.392
75.00	-4.47	-3.02	0.00	-41.61	0.00	41.61	459.24	229.62	229.69	150.79	20.47	-2.88	0.286
80.00	-4.07	-2.86	0.00	-26.51	0.00	26.51	459.24	229.62	229.69	150.79	23.58	-3.05	0.185
85.00	-3.68	-2.71	0.00	-12.21	0.00	12.21	459.24	229.62	229.69	150.79	26.83	-3.15	0.089
89.00	0.00	-2.50	0.00	-1.39	0.00	1.39	459.24	229.62	229.69	150.79	29.48	-3.18	0.009

Site Number: 302526

Code: ANSI/TIA-222-G

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Site Name: Naugatuck (telephone Pole), CT Engineering Number: OAA698250 C4 04

7/21/2017 12:04:46 PM

Customer: AT&T MOBILITY

Load Case: 0.9D + 1.6W

97 mph with No Ice (Reduced DL)

21 Iterations

Gust Response Factor :1.10

Wind Importance Factor 1.00

Dead Load Factor :0.90

Wind Load Factor :1.60

Applied Segment Forces Summary

Seg Elev (ft)	Description	Shaft Forces		Discrete Forces			Linear Forces			Sum of Forces			
		Wind FX	Dead Load	Wind FX	Torsion MY	Moment MZ	Dead Load	Wind FX	Dead Load	Wind FX	Dead Load	Torsion MY	Moment MZ
		(lb)	(lb)	(lb)	(lb-ft)	(lb-ft)	(lb)	(lb)	(lb)	(lb)	(lb)	(lb)	(lb)
0.00		161.3	0.0					0.0	0.0	161.3	0.0	0.0	0.0
5.00		316.1	203.7					66.7	329.1	382.8	532.8	0.0	0.0
10.00		302.9	195.3					66.7	329.1	369.6	524.5	0.0	0.0
15.00		289.8	187.0					66.7	329.1	356.5	516.1	0.0	0.0
20.00		276.6	178.6					66.7	329.1	343.3	507.7	0.0	0.0
25.00		263.5	170.2					66.7	329.1	330.2	499.3	0.0	0.0
30.00		253.3	161.9					66.7	329.1	320.0	491.0	0.0	0.0
35.00		247.8	153.5					67.5	329.1	315.3	482.6	0.0	0.0
40.00		171.5	145.1					68.9	329.1	240.3	474.2	0.0	0.0
42.00	Appertunance(s)	120.2	55.7	2,484.5	0.0	0.0	2,183.3	27.9	131.7	2,632.6	2,370.7	0.0	0.0
45.00		165.3	81.0					42.2	179.8	207.5	260.8	0.0	0.0
49.00	Top - Section 1	114.3	103.4					56.9	239.7	171.3	343.1	0.0	0.0
50.00	Reinf. Top	126.3	58.9					22.1	59.9	148.4	118.9	0.0	0.0
55.00		159.7	294.6					90.0	74.2	249.7	368.8	0.0	0.0
60.00		109.6	294.6					0.0	74.2	109.6	368.8	0.0	0.0
65.00		100.7	294.6					0.0	74.2	100.7	368.8	0.0	0.0
69.00	Top - Section 2	56.7	235.7					0.0	59.3	56.7	295.0	0.0	0.0
70.00		69.3	44.6					0.0	14.8	69.3	59.5	0.0	0.0
75.00		116.8	223.2					0.0	74.2	116.8	297.4	0.0	0.0
80.00		119.0	223.2					0.0	74.2	119.0	297.4	0.0	0.0
85.00		108.8	223.2					0.0	74.2	108.8	297.4	0.0	0.0
89.00	Appertunance(s)	48.8	178.6	2,436.2	0.0	1,389.1	2,629.8	0.0	59.3	2,485.0	2,867.7	0.0	0.0
								Totals:		9,394.66	12,342.5	0.00	0.00

Site Number: 302526

Code: ANSI/TIA-222-G

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Site Name: Naugatuck (telephone Pole), CT Engineering Number: OAA698250_C4_04

7/21/2017 12:04:47 PM

Customer: AT&T MOBILITY

Load Case: 0.9D + 1.6W

97 mph with No Ice (Reduced DL)

21 Iterations

Gust Response Factor :1.10

Wind Importance Factor 1.00

Dead Load Factor :0.90

Wind Load Factor :1.60

Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-12.33	-9.25	0.00	-490.07	0.00	490.07	948.37	474.19	888.66	444.99	0.00	0.00	0.284
5.00	-11.77	-8.91	0.00	-443.80	0.00	443.80	922.11	461.05	828.98	415.11	0.10	-0.19	0.261
10.00	-11.22	-8.57	0.00	-399.26	0.00	399.26	894.84	447.42	770.44	385.79	0.40	-0.37	0.238
15.00	-10.68	-8.24	0.00	-356.41	0.00	356.41	866.57	433.29	713.14	357.10	0.88	-0.54	0.216
20.00	-10.15	-7.92	0.00	-315.20	0.00	315.20	837.31	418.65	657.22	329.10	1.54	-0.71	0.194
25.00	-9.64	-7.61	0.00	-275.59	0.00	275.59	805.59	402.80	601.69	301.29	2.37	-0.86	0.172
30.00	-9.13	-7.30	0.00	-237.54	0.00	237.54	764.99	382.50	542.27	271.54	3.35	-1.01	0.152
35.00	-8.64	-7.00	0.00	-201.02	0.00	201.02	724.39	362.19	485.94	243.33	4.49	-1.15	0.132
40.00	-8.16	-6.76	0.00	-166.02	0.00	166.02	683.78	341.89	432.70	216.67	5.75	-1.27	0.112
42.00	-5.85	-4.08	0.00	-152.50	0.00	152.50	667.54	333.77	412.27	206.44	6.30	-1.31	0.102
45.00	-5.59	-3.87	0.00	-140.26	0.00	140.26	643.18	321.59	382.55	191.56	7.14	-1.38	0.095
49.00	-5.25	-3.70	0.00	-124.76	0.00	124.76	610.70	305.35	344.65	172.58	8.33	-1.46	0.086
49.00	-5.25	-3.70	0.00	-124.76	0.00	124.76	606.13	303.07	297.07	197.07	8.33	-1.46	0.126
50.00	-5.13	-3.55	0.00	-121.06	0.00	121.06	606.13	303.07	297.07	197.07	8.64	-1.48	0.129
50.00	-5.13	-3.55	0.00	-121.06	0.00	121.06	606.13	303.07	297.07	197.07	8.64	-1.48	0.623
55.00	-4.75	-3.31	0.00	-103.29	0.00	103.29	606.13	303.07	297.07	197.07	10.24	-1.57	0.532
60.00	-4.37	-3.22	0.00	-86.73	0.00	86.73	606.13	303.07	297.07	197.07	12.08	-1.94	0.447
65.00	-3.99	-3.12	0.00	-70.63	0.00	70.63	606.13	303.07	297.07	197.07	14.28	-2.25	0.365
69.00	-3.69	-3.06	0.00	-58.15	0.00	58.15	606.13	303.07	297.07	197.07	16.26	-2.46	0.301
69.00	-3.69	-3.06	0.00	-58.15	0.00	58.15	459.24	229.62	229.69	150.79	16.26	-2.46	0.394
70.00	-3.63	-3.00	0.00	-55.09	0.00	55.09	459.24	229.62	229.69	150.79	16.78	-2.50	0.373
75.00	-3.32	-2.88	0.00	-40.09	0.00	40.09	459.24	229.62	229.69	150.79	19.53	-2.74	0.273
80.00	-3.03	-2.75	0.00	-25.69	0.00	25.69	459.24	229.62	229.69	150.79	22.49	-2.91	0.177
85.00	-2.73	-2.63	0.00	-11.92	0.00	11.92	459.24	229.62	229.69	150.79	25.59	-3.01	0.085
89.00	0.00	-2.48	0.00	-1.39	0.00	1.39	459.24	229.62	229.69	150.79	28.13	-3.03	0.009

Site Number: 302526

Code: ANSI/TIA-222-G

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Site Name: Naugatuck (telephone Pole), CT Engineering Number: OAA698250_C4_04

7/21/2017 12:04:47 PM

Customer: AT&T MOBILITY

Load Case: 1.2D + 1.0Di + 1.0Wi

50 mph with 0.75 in Radial Ice

20 Iterations

Gust Response Factor :1.10

Ice Dead Load Factor 1.00

Wind Importance Factor 1.00

Dead Load Factor :1.20

Wind Load Factor :1.00

Ice Importance Factor 1.00

Applied Segment Forces Summary

Seg Elev (ft)	Description	Shaft Forces		Discrete Forces			Linear Forces			Sum of Forces			
		Wind FX	Dead Load	Wind FX	Torsion MY	Moment MZ	Dead Load	Wind FX	Dead Load	Wind FX	Dead Load	Torsion MY	Moment MZ
		(lb)	(lb)	(lb)	(lb-ft)	(lb-ft)	(lb)	(lb)	(lb)	(lb)	(lb)	(lb)	(lb)
0.00		29.5	0.0					0.0	0.0	29.5	0.0	0.0	0.0
5.00		58.2	440.2					19.5	581.3	77.7	1,021.6	0.0	0.0
10.00		56.5	442.3					20.1	597.6	76.6	1,039.9	0.0	0.0
15.00		54.6	433.4					20.4	605.9	75.0	1,039.3	0.0	0.0
20.00		52.6	420.9					20.6	611.7	73.2	1,032.6	0.0	0.0
25.00		50.6	406.4					20.8	616.2	71.4	1,022.6	0.0	0.0
30.00		49.1	390.6					20.9	619.9	70.0	1,010.6	0.0	0.0
35.00		48.5	374.0					21.6	623.1	70.1	997.1	0.0	0.0
40.00		33.8	356.8					22.6	625.9	56.4	982.6	0.0	0.0
42.00	Appertunance(s)	23.9	138.8	550.2	0.0	0.0	5,763.3	9.3	251.0	583.5	6,153.1	0.0	0.0
45.00		33.2	202.3					14.2	353.6	47.4	555.9	0.0	0.0
49.00	Top - Section 1	23.1	258.8					19.4	472.8	42.6	731.6	0.0	0.0
50.00	Reinf. Top	26.1	105.9					7.9	128.1	34.0	234.0	0.0	0.0
55.00		44.3	530.3					32.8	320.9	77.1	851.1	0.0	0.0
60.00		45.5	531.6					0.0	274.4	45.5	806.1	0.0	0.0
65.00		41.9	532.9					0.0	276.0	41.9	809.0	0.0	0.0
69.00	Top - Section 2	23.6	427.2					0.0	221.9	23.6	649.1	0.0	0.0
70.00		28.9	87.9					0.0	55.6	28.9	143.5	0.0	0.0
75.00		48.7	440.1					0.0	278.9	48.7	718.9	0.0	0.0
80.00		49.7	441.1					0.0	280.2	49.7	721.3	0.0	0.0
85.00		45.5	442.1					0.0	281.4	45.5	723.5	0.0	0.0
89.00	Appertunance(s)	20.4	354.4	609.4	0.0	287.2	6,291.7	0.0	226.0	629.8	6,872.0	0.0	0.0
								Totals:			2,298.02	28,115.5	0.00
											0.00	0.00	

Site Number: 302526

Code: ANSI/TIA-222-G

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Site Name: Naugatuck (telephone Pole), CT Engineering Number: OAA698250_C4_04

7/21/2017 12:04:48 PM

Customer: AT&T MOBILITY

Load Case: 1.2D + 1.0Di + 1.0Wi

50 mph with 0.75 in Radial Ice

20 Iterations

Gust Response Factor :1.10

Ice Dead Load Factor 1.00

Wind Importance Factor 1.00

Dead Load Factor :1.20

Wind Load Factor :1.00

Ice Importance Factor 1.00

Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Deflect Rotation (deg)	Ratio
0.00	-28.11	-2.28	0.00	-132.21	0.00	132.21	948.37	474.19	888.66	444.99	0.00	0.00	0.089
5.00	-27.09	-2.23	0.00	-120.80	0.00	120.80	922.11	461.05	828.98	415.11	0.03	-0.05	0.083
10.00	-26.05	-2.17	0.00	-109.67	0.00	109.67	894.84	447.42	770.44	385.79	0.11	-0.10	0.077
15.00	-25.01	-2.11	0.00	-98.82	0.00	98.82	866.57	433.29	713.14	357.10	0.24	-0.15	0.071
20.00	-23.97	-2.06	0.00	-88.25	0.00	88.25	837.31	418.65	657.22	329.10	0.42	-0.19	0.065
25.00	-22.95	-2.00	0.00	-77.97	0.00	77.97	805.59	402.80	601.69	301.29	0.65	-0.24	0.059
30.00	-21.94	-1.94	0.00	-67.97	0.00	67.97	764.99	382.50	542.27	271.54	0.92	-0.28	0.054
35.00	-20.94	-1.88	0.00	-58.28	0.00	58.28	724.39	362.19	485.94	243.33	1.23	-0.32	0.048
40.00	-19.96	-1.82	0.00	-48.89	0.00	48.89	683.78	341.89	432.70	216.67	1.59	-0.35	0.043
42.00	-13.81	-1.21	0.00	-45.25	0.00	45.25	667.54	333.77	412.27	206.44	1.74	-0.37	0.037
45.00	-13.25	-1.16	0.00	-41.63	0.00	41.63	643.18	321.59	382.55	191.56	1.98	-0.39	0.035
49.00	-12.52	-1.11	0.00	-37.00	0.00	37.00	610.70	305.35	344.65	172.58	2.31	-0.41	0.032
49.00	-12.52	-1.11	0.00	-37.00	0.00	37.00	606.13	303.07	297.07	197.07	2.31	-0.41	0.048
50.00	-12.29	-1.08	0.00	-35.88	0.00	35.88	606.13	303.07	297.07	197.07	2.40	-0.42	0.048
50.00	-12.29	-1.08	0.00	-35.88	0.00	35.88	606.13	303.07	297.07	197.07	2.40	-0.42	0.202
55.00	-11.44	-1.01	0.00	-30.47	0.00	30.47	606.13	303.07	297.07	197.07	2.85	-0.44	0.173
60.00	-10.63	-0.98	0.00	-25.40	0.00	25.40	606.13	303.07	297.07	197.07	3.37	-0.55	0.146
65.00	-9.82	-0.94	0.00	-20.51	0.00	20.51	606.13	303.07	297.07	197.07	4.00	-0.64	0.120
69.00	-9.17	-0.92	0.00	-16.74	0.00	16.74	606.13	303.07	297.07	197.07	4.57	-0.70	0.100
69.00	-9.17	-0.92	0.00	-16.74	0.00	16.74	459.24	229.62	229.69	150.79	4.57	-0.70	0.131
70.00	-9.02	-0.89	0.00	-15.83	0.00	15.83	459.24	229.62	229.69	150.79	4.72	-0.72	0.125
75.00	-8.31	-0.84	0.00	-11.37	0.00	11.37	459.24	229.62	229.69	150.79	5.50	-0.78	0.093
80.00	-7.58	-0.79	0.00	-7.16	0.00	7.16	459.24	229.62	229.69	150.79	6.35	-0.83	0.064
85.00	-6.86	-0.73	0.00	-3.22	0.00	3.22	459.24	229.62	229.69	150.79	7.24	-0.86	0.036
89.00	0.00	-0.63	0.00	-0.29	0.00	0.29	459.24	229.62	229.69	150.79	7.96	-0.87	0.002

Site Number: 302526

Code: ANSI/TIA-222-G

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Site Name: Naugatuck (telephone Pole), CT Engineering Number: OAA698250_C4_04

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Customer: AT&T MOBILITY

Load Case: 1.0D + 1.0W

Serviceability 60 mph

20 Iterations

Gust Response Factor :1.10

Wind Importance Factor 1.00

Dead Load Factor :1.00

Wind Load Factor :1.00

Applied Segment Forces Summary

Seg Elev (ft)	Description	Shaft Forces		Discrete Forces			Linear Forces			Sum of Forces			
		Wind FX	Dead Load (lb)	Wind FX	Torsion MY	Moment MZ	Dead Load (lb)	Wind FX	Dead Load (lb)	Wind FX	Dead Load (lb)	Torsion MY	Moment MZ
				(lb)	(lb)	(lb-ft)	(lb-ft)	(lb)	(lb)	(lb)	(lb)	(lb)	(lb)
0.00		38.6	0.0					0.0	0.0	38.6	0.0	0.0	0.0
5.00		75.6	226.3					20.2	365.7	95.8	592.0	0.0	0.0
10.00		72.4	217.0					20.2	365.7	92.7	582.7	0.0	0.0
15.00		69.3	207.7					20.2	365.7	89.5	573.4	0.0	0.0
20.00		66.1	198.4					20.2	365.7	86.4	564.1	0.0	0.0
25.00		63.0	189.1					20.2	365.7	83.2	554.8	0.0	0.0
30.00		60.6	179.8					20.2	365.7	80.8	545.5	0.0	0.0
35.00		59.3	170.5					20.7	365.7	80.0	536.2	0.0	0.0
40.00		41.0	161.2					21.6	365.7	62.6	526.9	0.0	0.0
42.00	Appertunance(s)	28.7	61.9	594.1	0.0	0.0	2,425.9	8.9	146.3	631.7	2,634.1	0.0	0.0
45.00		39.5	90.0					13.5	199.7	53.0	289.8	0.0	0.0
49.00	Top - Section 1	27.3	114.9					18.4	266.3	45.8	381.2	0.0	0.0
50.00	Reinf. Top	30.2	65.5					6.5	66.6	36.7	132.1	0.0	0.0
55.00		39.4	327.4					26.0	82.4	65.4	409.8	0.0	0.0
60.00		28.5	327.4					0.0	82.4	28.5	409.8	0.0	0.0
65.00		25.9	327.4					0.0	82.4	25.9	409.8	0.0	0.0
69.00	Top - Section 2	14.5	261.9					0.0	65.9	14.5	327.8	0.0	0.0
70.00		17.5	49.6					0.0	16.5	17.5	66.1	0.0	0.0
75.00		29.4	248.0					0.0	82.4	29.4	330.4	0.0	0.0
80.00		29.7	248.0					0.0	82.4	29.7	330.4	0.0	0.0
85.00		26.9	248.0					0.0	82.4	26.9	330.4	0.0	0.0
89.00	Appertunance(s)	12.0	198.4	582.6	0.0	332.2	2,922.0	0.0	65.9	594.6	3,186.4	0.0	0.0
								Totals:			2,309.15	13,713.9	0.00
											0.00	0.00	

Site Number: 302526

Code: ANSI/TIA-222-G

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Site Name: Naugatuck (telephone Pole), CT Engineering Number: OAA698250_C4_04

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Customer: AT&T MOBILITY

Load Case: 1.0D + 1.0W

Serviceability 60 mph

20 Iterations

Gust Response Factor :1.10

Wind Importance Factor 1.00

Dead Load Factor :1.00

Wind Load Factor :1.00

Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-13.71	-2.28	0.00	-119.97	0.00	119.97	948.37	474.19	888.66	444.99	0.00	0.00	0.075
5.00	-13.12	-2.19	0.00	-108.59	0.00	108.59	922.11	461.05	828.98	415.11	0.03	-0.05	0.069
10.00	-12.54	-2.11	0.00	-97.64	0.00	97.64	894.84	447.42	770.44	385.79	0.10	-0.09	0.063
15.00	-11.96	-2.02	0.00	-87.11	0.00	87.11	866.57	433.29	713.14	357.10	0.22	-0.13	0.058
20.00	-11.40	-1.94	0.00	-76.99	0.00	76.99	837.31	418.65	657.22	329.10	0.38	-0.17	0.052
25.00	-10.84	-1.87	0.00	-67.27	0.00	67.27	805.59	402.80	601.69	301.29	0.58	-0.21	0.046
30.00	-10.29	-1.79	0.00	-57.94	0.00	57.94	764.99	382.50	542.27	271.54	0.82	-0.25	0.041
35.00	-9.76	-1.71	0.00	-48.99	0.00	48.99	724.39	362.19	485.94	243.33	1.10	-0.28	0.036
40.00	-9.23	-1.65	0.00	-40.43	0.00	40.43	683.78	341.89	432.70	216.67	1.41	-0.31	0.031
42.00	-6.60	-1.01	0.00	-37.13	0.00	37.13	667.54	333.77	412.27	206.44	1.54	-0.32	0.028
45.00	-6.31	-0.95	0.00	-34.11	0.00	34.11	643.18	321.59	382.55	191.56	1.75	-0.34	0.026
49.00	-5.93	-0.91	0.00	-30.30	0.00	30.30	610.70	305.35	344.65	172.58	2.04	-0.36	0.024
49.00	-5.93	-0.91	0.00	-30.30	0.00	30.30	606.13	303.07	297.07	197.07	2.04	-0.36	0.035
50.00	-5.80	-0.87	0.00	-29.39	0.00	29.39	606.13	303.07	297.07	197.07	2.11	-0.36	0.036
50.00	-5.80	-0.87	0.00	-29.39	0.00	29.39	606.13	303.07	297.07	197.07	2.11	-0.36	0.159
55.00	-5.39	-0.81	0.00	-25.05	0.00	25.05	606.13	303.07	297.07	197.07	2.50	-0.38	0.136
60.00	-4.97	-0.78	0.00	-21.01	0.00	21.01	606.13	303.07	297.07	197.07	2.95	-0.47	0.115
65.00	-4.56	-0.76	0.00	-17.10	0.00	17.10	606.13	303.07	297.07	197.07	3.49	-0.55	0.094
69.00	-4.24	-0.74	0.00	-14.06	0.00	14.06	606.13	303.07	297.07	197.07	3.97	-0.60	0.078
69.00	-4.24	-0.74	0.00	-14.06	0.00	14.06	459.24	229.62	229.69	150.79	3.97	-0.60	0.103
70.00	-4.17	-0.73	0.00	-13.32	0.00	13.32	459.24	229.62	229.69	150.79	4.09	-0.61	0.097
75.00	-3.84	-0.70	0.00	-9.69	0.00	9.69	459.24	229.62	229.69	150.79	4.76	-0.67	0.073
80.00	-3.51	-0.67	0.00	-6.20	0.00	6.20	459.24	229.62	229.69	150.79	5.49	-0.71	0.049
85.00	-3.18	-0.64	0.00	-2.87	0.00	2.87	459.24	229.62	229.69	150.79	6.24	-0.73	0.026
89.00	0.00	-0.59	0.00	-0.33	0.00	0.33	459.24	229.62	229.69	150.79	6.86	-0.74	0.002

Site Number: 302526

Code: ANSI/TIA-222-G

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Site Name: Naugatuck (telephone Pole), CT Engineering Number: OAA698250_C4_04

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Customer: AT&T MOBILITY

Equivalent Lateral Forces Method Analysis

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

Spectral Response Acceleration for Short Period (S_s):	0.19
Spectral Response Acceleration at 1.0 Second Period (S_1):	0.06
Long-Period Transition Period (T_L):	6
Importance Factor (I_E):	1.00
Site Coefficient F_a :	1.60
Site Coeffiecient F_v :	2.40
Response Modification Coefficient (R):	1.50
Design Spectral Response Acceleration at Short Period (S_{ds}):	0.20
Design Spectral Response Acceleration at 1.0 Second Period (S_{d1}):	0.10
Seismic Response Coefficient (C_s):	0.04
Upper Limit C_s	0.04
Lower Limit C_s	0.03
Period based on Rayleigh Method (sec):	1.75
Redundancy Factor (p):	1.30
Seismic Force Distribution Exponent (k):	1.62
Total Unfactored Dead Load:	13.71 k
Seismic Base Shear (E):	0.70 k

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

Segment	Height Above Base (ft)	Weight (lb)	W_z (lb-ft)	C_{vx}	Horizontal Force (lb)	Vertical Force (lb)
21	87.00	264	373	0.040	28	328
20	82.50	330	427	0.046	32	410
19	77.50	330	386	0.042	29	410
18	72.50	330	346	0.037	26	410
17	69.50	66	65	0.007	5	82
16	67.00	328	302	0.033	23	407
15	62.50	410	338	0.036	25	508
14	57.50	410	295	0.032	22	508
13	52.50	410	254	0.027	19	508
12	49.50	132	75	0.008	6	164
11	47.00	381	198	0.021	15	473
10	43.50	290	133	0.014	10	360
9	41.00	208	87	0.009	7	258
8	37.50	527	189	0.020	14	654
7	32.50	536	153	0.017	11	665
6	27.50	546	119	0.013	9	677
5	22.50	555	87	0.009	7	688
4	17.50	564	59	0.006	4	700
3	12.50	573	35	0.004	3	711
2	7.50	583	15	0.002	1	723
1	2.50	592	3	0.000	0	735
Powerwave Allgon CM1	89.00	26	38	0.004	3	32
CCI DTMABP7819VG12A	89.00	77	112	0.012	8	95

Site Number: 302526

Code: ANSI/TIA-222-G

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Site Name: Naugatuck (telephone Pole), CT Engineering Number: OAA698250_C4_04

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Customer: AT&T MOBILITY

Raycap DC6-48-60-18-	89.00	32	47	0.005	3	39
Raycap DC6-48-60-18-	89.00	32	47	0.005	3	39
Ericsson RRUS 11 (Ba	89.00	110	161	0.017	12	136
Ericsson RRUS 32 (50	89.00	102	149	0.016	11	126
Ericsson RRUS 32 B2	89.00	106	155	0.017	12	132
Powerwave Allgon 777	89.00	70	102	0.011	8	87
Quintel QS66512-2	89.00	222	325	0.035	24	275
CCI OPA-65R-LCUU-H6	89.00	146	214	0.023	16	181
Round Platform w/ Ha	89.00	2,000	2,925	0.316	220	2,481
RFS FD9R6004/1C-3L	42.00	19	8	0.001	1	23
Alcatel-Lucent RRH2X	42.00	132	57	0.006	4	164
Alcatel-Lucent RRH2X	42.00	129	56	0.006	4	160
Alcatel-Lucent RRH2x	42.00	170	74	0.008	6	211
Decibel DB844H80E-XY	42.00	84	36	0.004	3	104
RFS DB-T1-6Z-8AB-0Z	42.00	88	38	0.004	3	109
Commscope SBNHH-1D65	42.00	304	131	0.014	10	377
Flat Low Profile Pla	42.00	1,500	648	0.070	49	1,861
		13,714	9,259	1.000	697	17,015

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

Segment	Height Above Base (ft)	Weight (lb)	W _z (lb-ft)	C _{vx}	Horizontal Force (lb)	Vertical Force (lb)
21	87.00	264	373	0.040	28	227
20	82.50	330	427	0.046	32	284
19	77.50	330	386	0.042	29	284
18	72.50	330	346	0.037	26	284
17	69.50	66	65	0.007	5	57
16	67.00	328	302	0.033	23	282
15	62.50	410	338	0.036	25	352
14	57.50	410	295	0.032	22	352
13	52.50	410	254	0.027	19	352
12	49.50	132	75	0.008	6	113
11	47.00	381	198	0.021	15	328
10	43.50	290	133	0.014	10	249
9	41.00	208	87	0.009	7	179
8	37.50	527	189	0.020	14	453
7	32.50	536	153	0.017	11	461
6	27.50	546	119	0.013	9	469
5	22.50	555	87	0.009	7	477
4	17.50	564	59	0.006	4	485
3	12.50	573	35	0.004	3	493
2	7.50	583	15	0.002	1	501
1	2.50	592	3	0.000	0	509
Powerwave Allgon CM1	89.00	26	38	0.004	3	22
CCI DTMABP7819VG12A	89.00	77	112	0.012	8	66
Raycap DC6-48-60-18-	89.00	32	47	0.005	3	27
Raycap DC6-48-60-18-	89.00	32	47	0.005	3	27
Ericsson RRUS 11 (Ba	89.00	110	161	0.017	12	95
Ericsson RRUS 32 (50	89.00	102	149	0.016	11	87
Ericsson RRUS 32 B2	89.00	106	155	0.017	12	91
Powerwave Allgon 777	89.00	70	102	0.011	8	60
Quintel QS66512-2	89.00	222	325	0.035	24	191
CCI OPA-65R-LCUU-H6	89.00	146	214	0.023	16	125
Round Platform w/ Ha	89.00	2,000	2,925	0.316	220	1,719
RFS FD9R6004/1C-3L	42.00	19	8	0.001	1	16
Alcatel-Lucent RRH2X	42.00	132	57	0.006	4	113
Alcatel-Lucent RRH2X	42.00	129	56	0.006	4	111
Alcatel-Lucent RRH2x	42.00	170	74	0.008	6	146
Decibel DB844H80E-XY	42.00	84	36	0.004	3	72

Site Number: 302526

Code: ANSI/TIA-222-G

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Site Name: Naugatuck (telephone Pole), CT Engineering Number:OAA698250_C4_04

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Customer: AT&T MOBILITY

RFS DB-T1-6Z-8AB-0Z	42.00	88	38	0.004	3	76
Commscope SBNHH-1D65	42.00	304	131	0.014	10	261
Flat Low Profile Pla	42.00	1,500	648	0.070	49	1,289
		13,714	9,259	1.000	697	11,784

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

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-16.28	-0.70	0.00	-51.22	0.00	51.22	948.37	474.19	888.66	444.99	0.00	0.00	0.037
5.00	-15.56	-0.70	0.00	-47.73	0.00	47.73	922.11	461.05	828.98	415.11	0.01	-0.02	0.035
10.00	-14.85	-0.70	0.00	-44.21	0.00	44.21	894.84	447.42	770.44	385.79	0.04	-0.04	0.033
15.00	-14.15	-0.70	0.00	-40.69	0.00	40.69	866.57	433.29	713.14	357.10	0.09	-0.06	0.031
20.00	-13.46	-0.70	0.00	-37.17	0.00	37.17	837.31	418.65	657.22	329.10	0.17	-0.08	0.029
25.00	-12.78	-0.70	0.00	-33.66	0.00	33.66	805.59	402.80	601.69	301.29	0.26	-0.10	0.027
30.00	-12.11	-0.69	0.00	-30.18	0.00	30.18	764.99	382.50	542.27	271.54	0.37	-0.12	0.025
35.00	-11.46	-0.67	0.00	-26.75	0.00	26.75	724.39	362.19	485.94	243.33	0.50	-0.13	0.023
40.00	-11.20	-0.67	0.00	-23.38	0.00	23.38	683.78	341.89	432.70	216.67	0.65	-0.15	0.021
42.00	-7.83	-0.57	0.00	-22.04	0.00	22.04	667.54	333.77	412.27	206.44	0.71	-0.16	0.019
45.00	-7.36	-0.56	0.00	-20.32	0.00	20.32	643.18	321.59	382.55	191.56	0.81	-0.17	0.018
49.00	-7.20	-0.55	0.00	-18.09	0.00	18.09	610.70	305.35	344.65	172.58	0.96	-0.18	0.016
49.00	-7.20	-0.55	0.00	-18.09	0.00	18.09	606.13	303.07	297.07	197.07	0.96	-0.18	0.024
50.00	-6.69	-0.53	0.00	-17.53	0.00	17.53	606.13	303.07	297.07	197.07	1.00	-0.18	0.024
50.00	-6.69	-0.53	0.00	-17.53	0.00	17.53	606.13	303.07	297.07	197.07	1.00	-0.18	0.100
55.00	-6.18	-0.51	0.00	-14.87	0.00	14.87	606.13	303.07	297.07	197.07	1.19	-0.19	0.086
60.00	-5.67	-0.49	0.00	-12.30	0.00	12.30	606.13	303.07	297.07	197.07	1.42	-0.25	0.072
65.00	-5.26	-0.47	0.00	-9.85	0.00	9.85	606.13	303.07	297.07	197.07	1.70	-0.29	0.059
69.00	-5.18	-0.47	0.00	-7.97	0.00	7.97	606.13	303.07	297.07	197.07	1.96	-0.32	0.049
69.00	-5.18	-0.47	0.00	-7.97	0.00	7.97	459.24	229.62	229.69	150.79	1.96	-0.32	0.064
70.00	-4.77	-0.44	0.00	-7.51	0.00	7.51	459.24	229.62	229.69	150.79	2.03	-0.32	0.060
75.00	-4.36	-0.41	0.00	-5.31	0.00	5.31	459.24	229.62	229.69	150.79	2.38	-0.36	0.045
80.00	-3.95	-0.38	0.00	-3.26	0.00	3.26	459.24	229.62	229.69	150.79	2.77	-0.38	0.030
85.00	-3.62	-0.35	0.00	-1.38	0.00	1.38	459.24	229.62	229.69	150.79	3.17	-0.39	0.017
89.00	0.00	-0.32	0.00	0.00	0.00	0.00	459.24	229.62	229.69	150.79	3.50	-0.39	0.000

Load Case (0.9 - 0.2Sds) * DL + E ELFMSeismic (Reduced DL) Equivalent Lateral Forces MethodCalculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-11.27	-0.70	0.00	-50.60	0.00	50.60	948.37	474.19	888.66	444.99	0.00	0.00	0.034
5.00	-10.77	-0.70	0.00	-47.11	0.00	47.11	922.11	461.05	828.98	415.11	0.01	-0.02	0.033
10.00	-10.28	-0.70	0.00	-43.61	0.00	43.61	894.84	447.42	770.44	385.79	0.04	-0.04	0.031
15.00	-9.80	-0.70	0.00	-40.11	0.00	40.11	866.57	433.29	713.14	357.10	0.09	-0.06	0.029
20.00	-9.32	-0.70	0.00	-36.61	0.00	36.61	837.31	418.65	657.22	329.10	0.16	-0.08	0.027
25.00	-8.85	-0.69	0.00	-33.14	0.00	33.14	805.59	402.80	601.69	301.29	0.26	-0.10	0.025
30.00	-8.39	-0.68	0.00	-29.70	0.00	29.70	764.99	382.50	542.27	271.54	0.37	-0.11	0.023
35.00	-7.94	-0.67	0.00	-26.31	0.00	26.31	724.39	362.19	485.94	243.33	0.49	-0.13	0.021
40.00	-7.76	-0.66	0.00	-22.98	0.00	22.98	683.78	341.89	432.70	216.67	0.64	-0.15	0.019
42.00	-5.42	-0.57	0.00	-21.66	0.00	21.66	667.54	333.77	412.27	206.44	0.70	-0.15	0.017
45.00	-5.10	-0.55	0.00	-19.96	0.00	19.96	643.18	321.59	382.55	191.56	0.80	-0.16	0.016
49.00	-4.98	-0.55	0.00	-17.75	0.00	17.75	610.70	305.35	344.65	172.58	0.94	-0.17	0.015
49.00	-4.98	-0.55	0.00	-17.75	0.00	17.75	606.13	303.07	297.07	197.07	0.94	-0.17	0.022
50.00	-4.63	-0.53	0.00	-17.21	0.00	17.21	606.13	303.07	297.07	197.07	0.98	-0.18	0.022
50.00	-4.63	-0.53	0.00	-17.21	0.00	17.21	606.13	303.07	297.07	197.07	0.98	-0.18	0.095
55.00	-4.28	-0.51	0.00	-14.58	0.00	14.58	606.13	303.07	297.07	197.07	1.17	-0.19	0.081
60.00	-3.93	-0.48	0.00	-12.05	0.00	12.05	606.13	303.07	297.07	197.07	1.40	-0.24	0.068
65.00	-3.64	-0.46	0.00	-9.64	0.00	9.64	606.13	303.07	297.07	197.07	1.68	-0.29	0.055
69.00	-3.59	-0.46	0.00	-7.80	0.00	7.80	606.13	303.07	297.07	197.07	1.93	-0.31	0.045
69.00	-3.59	-0.46	0.00	-7.80	0.00	7.80	459.24	229.62	229.69	150.79	1.93	-0.31	0.060
70.00	-3.30	-0.43	0.00	-7.34	0.00	7.34	459.24	229.62	229.69	150.79	1.99	-0.32	0.056
75.00	-3.02	-0.40	0.00	-5.19	0.00	5.19	459.24	229.62	229.69	150.79	2.35	-0.35	0.041
80.00	-2.74	-0.37	0.00	-3.19	0.00	3.19	459.24	229.62	229.69	150.79	2.73	-0.37	0.027
85.00	-2.51	-0.34	0.00	-1.35	0.00	1.35	459.24	229.62	229.69	150.79	3.12	-0.38	0.014
89.00	0.00	-0.32	0.00	0.00	0.00	0.00	459.24	229.62	229.69	150.79	3.44	-0.39	0.000

Equivalent Modal Forces Analysis

(Based on ASCE7-10 Chapters 11, 12 & 15 and ANSI/TIA-G, section 2.7)

Spectral Response Acceleration for Short Period (S _s):	0.19
Spectral Response Acceleration at 1.0 Second Period (S ₁):	0.06
Importance Factor (I _E):	1.00
Site Coefficient F _a :	1.60
Site Coefficient F _v	2.40
Response Modification Coefficient (R):	1.50
Design Spectral Response Acceleration at Short Period (S _{ds}):	0.20
Desing Spectral Response Acceleration at 1.0 Second Period (S _{d1}):	0.10
Period Based on Rayleigh Method (sec):	1.75
Redundancy Factor (p):	1.30

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

Segment	Height Above Base (ft)	Weight (lb)	a	b	c	Saz	Horizontal Force (lb)	Vertical Force (lb)
21	87.00	264	1.806	1.566	0.988	0.338	77	328
20	82.50	330	1.624	0.855	0.703	0.227	65	410
19	77.50	330	1.433	0.350	0.467	0.129	37	410
18	72.50	330	1.254	0.062	0.297	0.055	16	410
17	69.50	66	1.153	-0.035	0.221	0.022	1	82
16	67.00	328	1.071	-0.085	0.170	0.002	0	407
15	62.50	410	0.932	-0.121	0.100	-0.021	-7	508
14	57.50	410	0.789	-0.110	0.051	-0.025	-9	508
13	52.50	410	0.658	-0.073	0.022	-0.012	-4	508
12	49.50	132	0.585	-0.047	0.013	0.001	0	164
11	47.00	381	0.527	-0.026	0.008	0.012	4	473
10	43.50	290	0.452	0.001	0.006	0.026	7	360
9	41.00	208	0.401	0.018	0.007	0.035	6	258
8	37.50	527	0.336	0.037	0.010	0.043	20	654
7	32.50	536	0.252	0.055	0.017	0.049	23	665
6	27.50	546	0.180	0.065	0.026	0.049	23	677
5	22.50	555	0.121	0.070	0.034	0.048	23	688
4	17.50	564	0.073	0.072	0.040	0.045	22	700
3	12.50	573	0.037	0.070	0.041	0.042	21	711
2	7.50	583	0.013	0.059	0.034	0.036	18	723
1	2.50	592	0.001	0.028	0.016	0.019	10	735
Powerwave Allgon	89.00	26	1.890	1.980	1.140	0.394	9	32
CCI DTMABP7819VG12A	89.00	77	1.890	1.980	1.140	0.394	26	95
Raycap DC6-48-60-18-	89.00	32	1.890	1.980	1.140	0.394	11	39
Raycap DC6-48-60-18-	89.00	32	1.890	1.980	1.140	0.394	11	39
Ericsson RRUS 11 (Ba	89.00	110	1.890	1.980	1.140	0.394	38	136
Ericsson RRUS 32 (50	89.00	102	1.890	1.980	1.140	0.394	35	126
Ericsson RRUS 32 B2	89.00	106	1.890	1.980	1.140	0.394	36	132
Powerwave Allgon 777	89.00	70	1.890	1.980	1.140	0.394	24	87
Quintel QS66512-2	89.00	222	1.890	1.980	1.140	0.394	76	275
CCI OPA-65R-LCUU-H6	89.00	146	1.890	1.980	1.140	0.394	50	181
Round Platform w/ Ha	89.00	2,000	1.890	1.980	1.140	0.394	682	2,481
RFS FD9R6004/1C-3L	42.00	19	0.421	0.011	0.006	0.032	1	23
Alcatel-Lucent RRH2X	42.00	132	0.421	0.011	0.006	0.032	4	164

Site Number: 302526

Code: ANSI/TIA-222-G

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Site Name: Naugatuck (telephone Pole), CT Engineering Number: OAA698250_C4_04

7/21/2017 12:04:49 PM

Customer: AT&T MOBILITY

Alcatel-Lucent RRH2X	42.00	129	0.421	0.011	0.006	0.032	4	160
Alcatel-Lucent RRH2x	42.00	170	0.421	0.011	0.006	0.032	5	211
Decibel DB844H80E-XY	42.00	84	0.421	0.011	0.006	0.032	2	104
RFS DB-T1-6Z-8AB-0Z	42.00	88	0.421	0.011	0.006	0.032	2	109
Commscope SBNHH-	42.00	304	0.421	0.011	0.006	0.032	8	377
Flat Low Profile Pla	42.00	1,500	0.421	0.011	0.006	0.032	41	1,861
		13,714		37.855	24.680	15.859	5.702	1,416
								17,015

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

Segment	Height Above Base	Weight	a	b	c	Saz	Horizontal Force (lb)	Vertical Force (lb)
	(ft)	(lb)						
21	87.00	264	1.806	1.566	0.988	0.338	77	227
20	82.50	330	1.624	0.855	0.703	0.227	65	284
19	77.50	330	1.433	0.350	0.467	0.129	37	284
18	72.50	330	1.254	0.062	0.297	0.055	16	284
17	69.50	66	1.153	-0.035	0.221	0.022	1	57
16	67.00	328	1.071	-0.085	0.170	0.002	0	282
15	62.50	410	0.932	-0.121	0.100	-0.021	-7	352
14	57.50	410	0.789	-0.110	0.051	-0.025	-9	352
13	52.50	410	0.658	-0.073	0.022	-0.012	-4	352
12	49.50	132	0.585	-0.047	0.013	0.001	0	113
11	47.00	381	0.527	-0.026	0.008	0.012	4	328
10	43.50	290	0.452	0.001	0.006	0.026	7	249
9	41.00	208	0.401	0.018	0.007	0.035	6	179
8	37.50	527	0.336	0.037	0.010	0.043	20	453
7	32.50	536	0.252	0.055	0.017	0.049	23	461
6	27.50	546	0.180	0.065	0.026	0.049	23	469
5	22.50	555	0.121	0.070	0.034	0.048	23	477
4	17.50	564	0.073	0.072	0.040	0.045	22	485
3	12.50	573	0.037	0.070	0.041	0.042	21	493
2	7.50	583	0.013	0.059	0.034	0.036	18	501
1	2.50	592	0.001	0.028	0.016	0.019	10	509
Powerwave Allgon	89.00	26	1.890	1.980	1.140	0.394	9	22
CCI DTMABP7819VG12A	89.00	77	1.890	1.980	1.140	0.394	26	66
Raycap DC6-48-60-18-	89.00	32	1.890	1.980	1.140	0.394	11	27
Raycap DC6-48-60-18-	89.00	32	1.890	1.980	1.140	0.394	11	27
Ericsson RRUS 11 (Ba	89.00	110	1.890	1.980	1.140	0.394	38	95
Ericsson RRUS 32 (50	89.00	102	1.890	1.980	1.140	0.394	35	87
Ericsson RRUS 32 B2	89.00	106	1.890	1.980	1.140	0.394	36	91
Powerwave Allgon 777	89.00	70	1.890	1.980	1.140	0.394	24	60
Quintel QS66512-2	89.00	222	1.890	1.980	1.140	0.394	76	191
CCI OPA-65R-LCUU-H6	89.00	146	1.890	1.980	1.140	0.394	50	125
Round Platform w/ Ha	89.00	2,000	1.890	1.980	1.140	0.394	682	1,719
RFS FD9R6004/1C-3L	42.00	19	0.421	0.011	0.006	0.032	1	16
Alcatel-Lucent RRH2X	42.00	132	0.421	0.011	0.006	0.032	4	113
Alcatel-Lucent RRH2X	42.00	129	0.421	0.011	0.006	0.032	4	111
Alcatel-Lucent RRH2x	42.00	170	0.421	0.011	0.006	0.032	5	146
Decibel DB844H80E-XY	42.00	84	0.421	0.011	0.006	0.032	2	72
RFS DB-T1-6Z-8AB-0Z	42.00	88	0.421	0.011	0.006	0.032	2	76
Commscope SBNHH-	42.00	304	0.421	0.011	0.006	0.032	8	261
Flat Low Profile Pla	42.00	1,500	0.421	0.011	0.006	0.032	41	1,289
		13,714		37.855	24.680	15.859	5.702	1,416
								11,784

Site Number: 302526

Code: ANSI/TIA-222-G

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Site Name: Naugatuck (telephone Pole), CT Engineering Number: OAA698250_C4_04

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Customer: AT&T MOBILITY

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

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-16.28	-1.41	0.00	-114.63	0.00	114.63	948.37	474.19	888.66	444.99	0.00	0.00	0.073
5.00	-15.56	-1.41	0.00	-107.57	0.00	107.57	922.11	461.05	828.98	415.11	0.02	-0.04	0.070
10.00	-14.84	-1.40	0.00	-100.54	0.00	100.54	894.84	447.42	770.44	385.79	0.09	-0.09	0.066
15.00	-14.14	-1.38	0.00	-93.56	0.00	93.56	866.57	433.29	713.14	357.10	0.21	-0.13	0.062
20.00	-13.45	-1.37	0.00	-86.64	0.00	86.64	837.31	418.65	657.22	329.10	0.38	-0.18	0.059
25.00	-12.78	-1.35	0.00	-79.80	0.00	79.80	805.59	402.80	601.69	301.29	0.59	-0.22	0.055
30.00	-12.11	-1.34	0.00	-73.03	0.00	73.03	764.99	382.50	542.27	271.54	0.84	-0.27	0.052
35.00	-11.45	-1.32	0.00	-66.35	0.00	66.35	724.39	362.19	485.94	243.33	1.15	-0.31	0.048
40.00	-11.20	-1.32	0.00	-59.74	0.00	59.74	683.78	341.89	432.70	216.67	1.49	-0.35	0.045
42.00	-7.83	-1.23	0.00	-57.10	0.00	57.10	667.54	333.77	412.27	206.44	1.64	-0.37	0.042
45.00	-7.35	-1.23	0.00	-53.41	0.00	53.41	643.18	321.59	382.55	191.56	1.88	-0.39	0.039
49.00	-7.19	-1.23	0.00	-48.51	0.00	48.51	610.70	305.35	344.65	172.58	2.22	-0.42	0.036
49.00	-7.19	-1.23	0.00	-48.51	0.00	48.51	606.13	303.07	297.07	197.07	2.22	-0.42	0.054
50.00	-6.68	-1.23	0.00	-47.29	0.00	47.29	606.13	303.07	297.07	197.07	2.31	-0.43	0.055
50.00	-6.68	-1.23	0.00	-47.29	0.00	47.29	606.13	303.07	297.07	197.07	2.31	-0.43	0.251
55.00	-6.17	-1.24	0.00	-41.14	0.00	41.14	606.13	303.07	297.07	197.07	2.78	-0.47	0.219
60.00	-5.66	-1.26	0.00	-34.92	0.00	34.92	606.13	303.07	297.07	197.07	3.35	-0.62	0.187
65.00	-5.25	-1.26	0.00	-28.62	0.00	28.62	606.13	303.07	297.07	197.07	4.07	-0.74	0.154
69.00	-5.17	-1.27	0.00	-23.56	0.00	23.56	606.13	303.07	297.07	197.07	4.72	-0.82	0.128
69.00	-5.17	-1.27	0.00	-23.56	0.00	23.56	459.24	229.62	229.69	150.79	4.72	-0.82	0.168
70.00	-4.75	-1.25	0.00	-22.29	0.00	22.29	459.24	229.62	229.69	150.79	4.90	-0.84	0.158
75.00	-4.34	-1.21	0.00	-16.04	0.00	16.04	459.24	229.62	229.69	150.79	5.83	-0.94	0.116
80.00	-3.93	-1.14	0.00	-9.97	0.00	9.97	459.24	229.62	229.69	150.79	6.85	-1.01	0.075
85.00	-3.61	-1.06	0.00	-4.25	0.00	4.25	459.24	229.62	229.69	150.79	7.93	-1.04	0.036
89.00	0.00	-1.00	0.00	0.00	0.00	0.00	459.24	229.62	229.69	150.79	8.80	-1.05	0.000

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

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-11.27	-1.41	0.00	-113.11	0.00	113.11	948.37	474.19	888.66	444.99	0.00	0.00	0.070
5.00	-10.77	-1.40	0.00	-106.06	0.00	106.06	922.11	461.05	828.98	415.11	0.02	-0.04	0.066
10.00	-10.28	-1.39	0.00	-99.06	0.00	99.06	894.84	447.42	770.44	385.79	0.09	-0.09	0.063
15.00	-9.79	-1.37	0.00	-92.12	0.00	92.12	866.57	433.29	713.14	357.10	0.21	-0.13	0.059
20.00	-9.32	-1.35	0.00	-85.27	0.00	85.27	837.31	418.65	657.22	329.10	0.37	-0.18	0.056
25.00	-8.85	-1.34	0.00	-78.50	0.00	78.50	805.59	402.80	601.69	301.29	0.58	-0.22	0.052
30.00	-8.38	-1.32	0.00	-71.82	0.00	71.82	764.99	382.50	542.27	271.54	0.83	-0.26	0.049
35.00	-7.93	-1.30	0.00	-65.23	0.00	65.23	724.39	362.19	485.94	243.33	1.13	-0.30	0.046
40.00	-7.75	-1.30	0.00	-58.73	0.00	58.73	683.78	341.89	432.70	216.67	1.47	-0.35	0.042
42.00	-5.42	-1.21	0.00	-56.13	0.00	56.13	667.54	333.77	412.27	206.44	1.62	-0.36	0.040
45.00	-5.09	-1.21	0.00	-52.50	0.00	52.50	643.18	321.59	382.55	191.56	1.85	-0.39	0.037
49.00	-4.98	-1.21	0.00	-47.66	0.00	47.66	610.70	305.35	344.65	172.58	2.19	-0.42	0.035
49.00	-4.98	-1.21	0.00	-47.66	0.00	47.66	606.13	303.07	297.07	197.07	2.19	-0.42	0.051
50.00	-4.62	-1.21	0.00	-46.45	0.00	46.45	606.13	303.07	297.07	197.07	2.28	-0.42	0.052
50.00	-4.62	-1.21	0.00	-46.45	0.00	46.45	606.13	303.07	297.07	197.07	2.28	-0.42	0.243
55.00	-4.27	-1.23	0.00	-40.39	0.00	40.39	606.13	303.07	297.07	197.07	2.74	-0.46	0.212
60.00	-3.91	-1.24	0.00	-34.26	0.00	34.26	606.13	303.07	297.07	197.07	3.30	-0.61	0.180
65.00	-3.63	-1.24	0.00	-28.07	0.00	28.07	606.13	303.07	297.07	197.07	4.00	-0.73	0.148
69.00	-3.57	-1.24	0.00	-23.10	0.00	23.10	606.13	303.07	297.07	197.07	4.65	-0.81	0.123
69.00	-3.57	-1.24	0.00	-23.10	0.00	23.10	459.24	229.62	229.69	150.79	4.65	-0.81	0.161
70.00	-3.29	-1.23	0.00	-21.86	0.00	21.86	459.24	229.62	229.69	150.79	4.82	-0.83	0.152
75.00	-3.00	-1.19	0.00	-15.72	0.00	15.72	459.24	229.62	229.69	150.79	5.74	-0.92	0.111
80.00	-2.72	-1.12	0.00	-9.78	0.00	9.78	459.24	229.62	229.69	150.79	6.74	-0.99	0.071
85.00	-2.49	-1.04	0.00	-4.17	0.00	4.17	459.24	229.62	229.69	150.79	7.79	-1.02	0.033
89.00	0.00	-1.00	0.00	0.00	0.00	0.00	459.24	229.62	229.69	150.79	8.66	-1.03	0.000

Site Number: 302526

Code: ANSI/TIA-222-G

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Site Name: Naugatuck (telephone Pole), CT Engineering Number: OAA698250_C4_04

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Customer: AT&T MOBILITY

Analysis Summary

Load Case	Reactions						Max Usage	
	Shear FX (kips)	Shear FZ (kips)	Axial FY (kips)	Moment MX (ft-kips)	Moment MY (ft-kips)	Moment MZ (ft-kips)	Elev (ft)	Interaction Ratio
1.2D + 1.6W	9.47	0.00	16.44	0.00	0.00	509.75	50.00	0.66
0.9D + 1.6W	9.25	0.00	12.33	0.00	0.00	490.07	50.00	0.62
1.2D + 1.0Di + 1.0Wi	2.28	0.00	28.11	0.00	0.00	132.21	50.00	0.20
(1.2 + 0.2Sds) * DL + E ELF M	0.70	0.00	16.28	0.00	0.00	51.22	50.00	0.10
(1.2 + 0.2Sds) * DL + E EMAM	1.41	0.00	16.28	0.00	0.00	114.63	50.00	0.25
(0.9 - 0.2Sds) * DL + E ELF M	0.70	0.00	11.27	0.00	0.00	50.60	50.00	0.09
(0.9 - 0.2Sds) * DL + E EMAM	1.41	0.00	11.27	0.00	0.00	113.11	50.00	0.24
1.0D + 1.0W	2.28	0.00	13.71	0.00	0.00	119.97	50.00	0.16

Additional Steel Summary

Elev From (ft)	Elev To (ft)	Intermediate Connectors			Upper Termination Connectors				Lower Termination Connectors				Max Member			
		Shear VQ/I (lb/in)	Shear Applied (kips)	Shear phiVn (kips)	MQ/I (kips)	phiVn (kips)	Num Reqd	Num Actual	MQ/I (kips)	phiVn (kips)	Num Reqd	Num Actual	Pu (kip)	phiPn (kip)	Ratio	
0.00	50.0 (3)	SOL-#20 All Thre	264.2	7.9	16.8	58.7	12.0	5	8	0.0	12.0	0	0	163.5	330.5	0.495

Base/Flange Plate	Plate Type	Baseplate
	Pole Diameter	23 in
	Pole Thickness	0.1875 in
	Plate Diameter	37 in
	Plate Thickness	1.5 in
	Plate Fy	60 ksi
	Weld Length	0.125 in
	ϕ_s Resistance	407.74 k-in
Applied		125.84 k-in
	#	0

Code Rev.	G	Date	7/21/2017
Engineer		Travis.Gatling	
Site #		302526	
Carrier		AT&T MOBILITY	

Moment **509.8 k-ft**
Axial **16.4 k**

Bolts	#	4
	Bolt Circle (R)adial / (S)square	31 in R
	Diameter	2.25 in
	Hole Diameter	2.625 in
	Type	A675
	Fy	75 ksi
	Fu	100 ksi
	ϕ_s Resistance	259.82 k
Reinforcement	Applied	49.11 k
	#	3
	DYW. Circle	40 in
	Offset Angle	20 °
	Type	#20
	Diameter	2.5 in
	Fu	100 ksi
	ϕ_s Resistance	392.70 k
Applied		154.61 k
	#	0

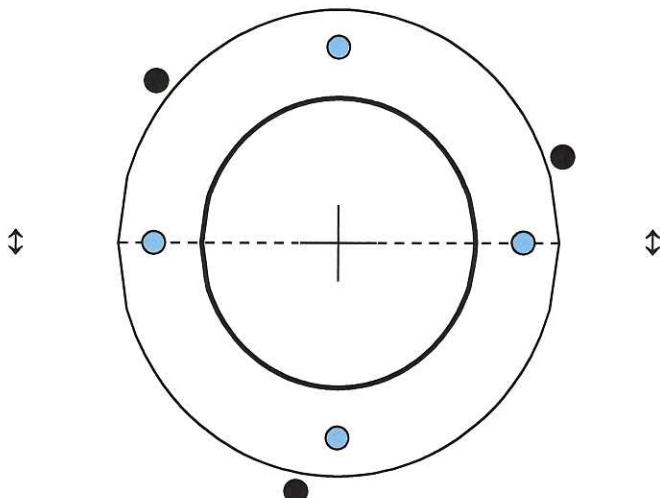


Plate Stress Ratio:

0.31 (Pass)

Bolt Stress Ratio:

0.19 (Pass)

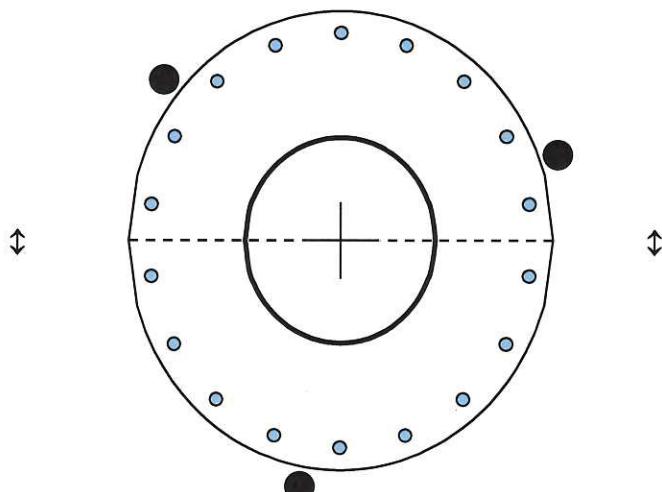
Reinforcement Stress Ratio:

0.39 (Pass)

Base/Flange Plate	Plate Type	Flange @ 49.0 ft
	Pole Diameter	12.75 in
	Pole Thickness	0.5 in
	Plate Diameter	28.5 in
	Plate Thickness	2 in
	Plate Fy	50 ksi
	Weld Length	0.4375 in
	ϕ_s Resistance	100.14 k-in
Stiffeners	Applied	10.64 k-in
	#	0

Code Rev.	G	Date	7/21/2017
Engineer		Travis.Gatling	
Site #		302526	
Carrier		AT&T MOBILITY	

Required Flange Thickness:
0.65 in OK



Bolts	#	18
	Bolt Circle	25.75 in
	(R)adial / (S)quare	R
	Diameter	1 in
	Hole Diameter	1.0625 in
	Type	A325
	Fy	92 ksi
	Fu	120 ksi
Reinforcement	ϕ_s Resistance	54.52 k
	Applied	1.92 k
Reinforcement ●	#	3
	DYW. Circle	31 in
	Offset Angle	20°
	Type	#20
	Diameter	2.5 in
	Fu	100 ksi
	ϕ_s Resistance	392.70 k
Extra Bolts O	Applied	55.58 k
	#	0

Plate Stress Ratio:
0.11 (Pass)

Bolt Stress Ratio:
0.04 (Pass)

Reinforcement Stress Ratio:
0.14 (Pass)

Base/Flange Plate	Plate Type	Flange @ 69.0 ft
	Pole Diameter	12.75 in
	Pole Thickness	0.375 in
	Plate Diameter	20 in
	Plate Thickness	1.5 in
	Plate Fy	50 ksi
	Weld Length	0.3125 in
	ϕ_s Resistance	84.49 k-in
Stiffeners	Applied	11.52 k-in
	#	0

Code Rev. **G**Date **7/21/2017**Engineer **Travis.Gatling**Site # **302526**Carrier **AT&T MOBILITY**Moment **60.7 k-ft**
Axial **5.0 k**

Required Flange Thickness:

0.55 in OK

Bolts	#	12
	Bolt Circle	16 in
	(R)adial / (S)quare	R
	● Diameter	1 in
	Hole Diameter	1.0625 in
	Type	A325
	Fy	92 ksi
	Fu	120 ksi
Reinforcement ●	ϕ_s Resistance	54.52 k
	Applied	14.74 k
Extra Bolts O	#	0
	#	0

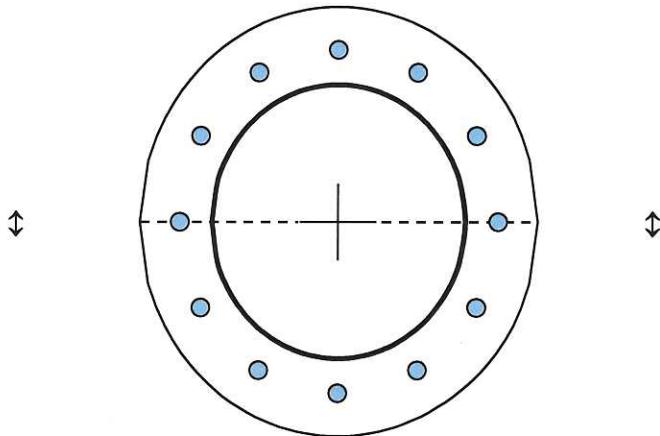


Plate Stress Ratio:

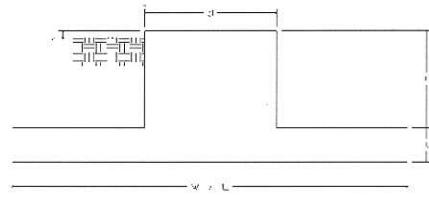
0.14 (Pass)

Bolt Stress Ratio:

0.27 (Pass)

Site Name: Naugatuck, CT
 Site Number: 302526
 Engineering Number: OAA698250
 Engineer: Travis.Gatling
 Date: 07/21/17
 Tower Type: MP

Program Last Updated: 5/13/2014



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

Design / Analysis / Mapping:	Analysis	
Compression/Leg:	16.4 k	Concrete Strength (f_c'): 4000 psi
Uplift/Leg:	0.0 k	Pad Tension Steel Depth: 32.00 in
Total Shear:	9.5 k	ϕ_{Shear} : 0.75
Moment:	509.8 k-ft	$\phi_{Flexure / Tension}$: 0.90
Tower + Appurtenance Weight:	16.4 k	$\phi_{Compression}$: 0.65
Depth to Base of Foundation ($l + t - h$):	5.25 ft	β : 0.85
Diameter of Pier (d):	4.50 ft	Bottom Pad Rebar Size #: 6
Height of Pier above Ground (h):	1.00	# of Bottom Pad Rebar: 20
Width of Pad (W):	12.00 ft	Pad Bottom Steel Area: 8.80 in ²
Length of Pad (L):	12.00 ft	Pad Steel F_y : 60000 psi
Thickness of Pad (t):	3.00 ft	Top Pad Rebar Size #: 6
Tower Leg Center to Center:	0.00 ft	# of Top Pad Rebar: 20
Number of Tower Legs:	1.0 (1 if MP or GT)	Pad Top Steel Area: 8.80 in ²
Tower Center from Mat Center:	0.00 ft	Pier Rebar Size #: 6
Depth Below Ground Surface to Water Table:	25.00 ft	Pier Steel Area (Single Bar): 0.44 in ²
Unit Weight of Concrete:	150.0 pcf	# of Pier Rebar: 24
Unit Weight of Soil Above Water Table:	110.0 pcf	Pier Steel F_y : 60000 psi
Unit Weight of Water:	62.4 pcf	Pier Cage Diameter: 46.0 in
Unit Weight of Soil Below Water Table:	47.6 pcf	Rebar Strain Limit: 0.008
Friction Angle of Uplift:	30.0 Degrees	Steel Elastic Modulus: 29000 ksi
Ultimate Coefficient of Shear Friction:	0.35	Tie Rebar Size #: 4
Ultimate Compressive Bearing Pressure:	6000.0 psf	Tie Steel Area (Single Bar): 0.20 in ²
Ultimate Passive Pressure on Pad Face:	0.0 psf	Tie Spacing: 12 in
ϕ_{Soil} and Concrete Weight:	0.9	Tie Steel F_y : 60000 psi
ϕ_{Soil} :	0.75	

Overturning Moment Usage

Design OTM:	568.9 k-ft
OTM Resistance:	691.7 k-ft
Design OTM / OTM Resistance:	0.82 Result: OK

Soil Bearing Pressure Usage

Net Bearing Pressure:	3650 psf
Factored Nominal Bearing Pressure:	4500 psf
Net Bearing Pressure/Factored Nominal Bearing Pressure:	0.81 Result: OK
Load Direction Controlling Design Bearing Pressure:	Diagonal to Pad Edge

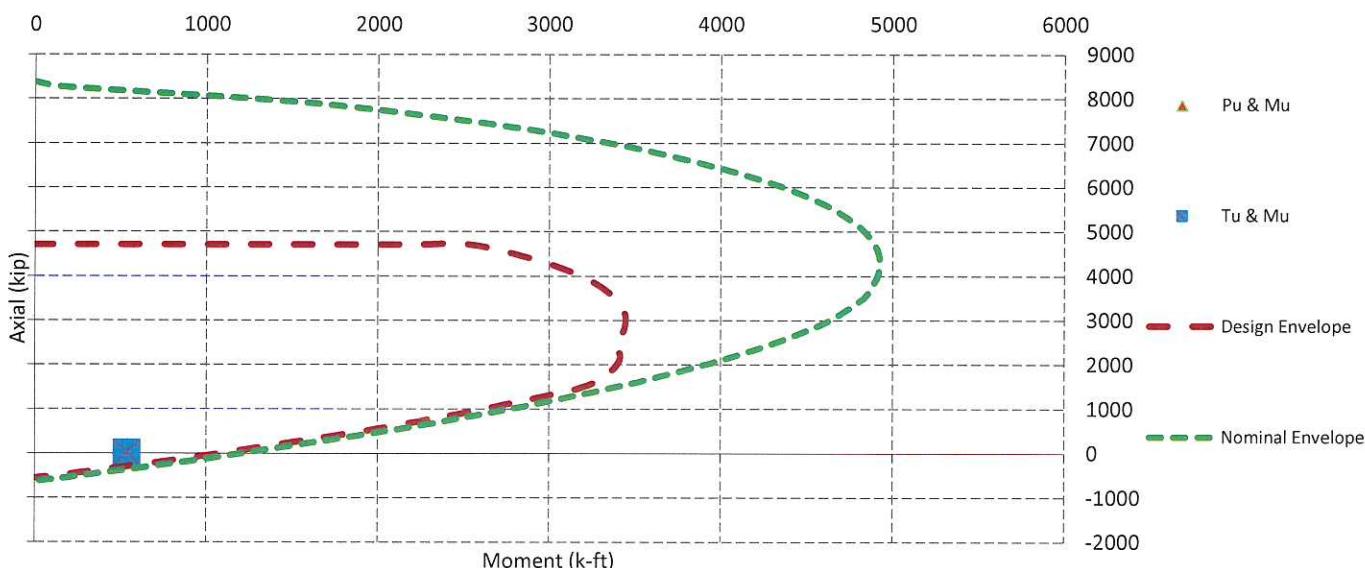
Sliding Factor of Safety

Total Factored Sliding Resistance:	31.0 k
Sliding Design / Sliding Resistance:	0.31 Result: OK

One Way Shear, Flexural Capacity, and Punching Shear

Factored One Way Shear (V_u):	34.2 k
One Way Shear Capacity (ϕV_c):	260.0 k - ACI11.3.1.1
$V_u / \phi V_c$:	0.13 Result: OK
Load Direction Controlling Shear Capacity:	Diagonal to Pad Edge
Lower Steel Pad Factored Moment (M_u):	193.2 k-ft
Lower Steel Pad Moment Capacity (ϕM_n):	1234.3 k-ft - ACI10.3
$M_u / \phi M_n$:	0.16 Result: OK
Load Direction Controlling Flexural Capacity:	Diagonal to Pad Edge
Upper Steel Pad Factored Moment (M_u):	93.8 k-ft
Upper Steel Pad Moment Capacity (ϕM_n):	1249.1 k-ft
$M_u / \phi M_n$:	0.08 Result: OK
Lower Pad Flexural Reinforcement Ratio:	0.0019 OK - Minimum Reinforcement Ratio Met - ACI10.5.1
Upper Pad Flexural Reinforcement Ratio:	0.0019 OK - Minimum Reinforcement Ratio Met - ACI10.5.1
Lower Pad Reinforcement Spacing:	7 in - Pad Reinforcing Spacing OK - ACI7.12.2.2 & 10.5.4
Upper Pad Reinforcement Spacing:	7 in - Pad Reinforcing Spacing OK - ACI7.12.2.2 & 10.5.4
Factored Punching Shear (V_u):	0.0 k
Nominal Punching Shear Capacity ($\phi_c V_n$):	1640.4 k - ACI11.12.2.1
$V_u / \phi V_c$:	0.00 Result: OK
Factored Moment in Pier (M_u):	540.5 k-ft
Pier Moment Capacity (ϕM_n):	1070.4 k-ft
$M_u / \phi M_n$:	0.50 Result: OK
Factored Shear in Pier (V_u):	9.5 k
Pier Shear Capacity (ϕV_n):	218.0 k
$V_u / \phi V_c$:	0.04 Result: OK
Pier Shear Reinforcement Ratio:	0.0009 No Ties Necessary for Shear - ACI11.5.6.1
Factored Tension in Pier (T_u):	0.0 k
Pier Tension Capacity (ϕT_n):	570.2 k
$T_u / \phi T_n$:	0.00 Result: OK
Factored Compression in Pier (P_u):	16.4 k
Pier Compression Capacity (ϕP_n):	4030.4 k - ACI10.3.6.2
$P_u / \phi P_n$:	0.00 Result: OK
$M_u / \phi B M_n + T_u / \phi T_n T_n$:	0.50 Result: OK

Nominal and Design Moment Capacity and Factored Design Loads



5

**Prepared For:
AT&T Mobility
Site Name:
NAUGATUCK SOUTH MAIN
Site No.: CT2166
585 South Main Street
Naugatuck, CT 06770
New Haven County**



For visual reference only. Actual visibility
is dependent upon weather conditions,
season, sunlight, and viewer location.



550 Enterprise Drive Suite 3A
Rocky Hill, CT 06067

**NAUGATUCK SOUTH MAIN
Site No.: CT2166
DEWBERRY NO. 50065890
(Page 1 of 12)**



27 Northwestern Drive
Salem, NH 03079

 **Dewberry®**
Dewberry Engineers Inc.
600 Parsippany Road
Suite 301
Parsippany, NJ 07054



SITE LOCATION

PHOTO 2

8

PHOTO 1

PHOTO 3

PHOTO 4

PHOTO 6

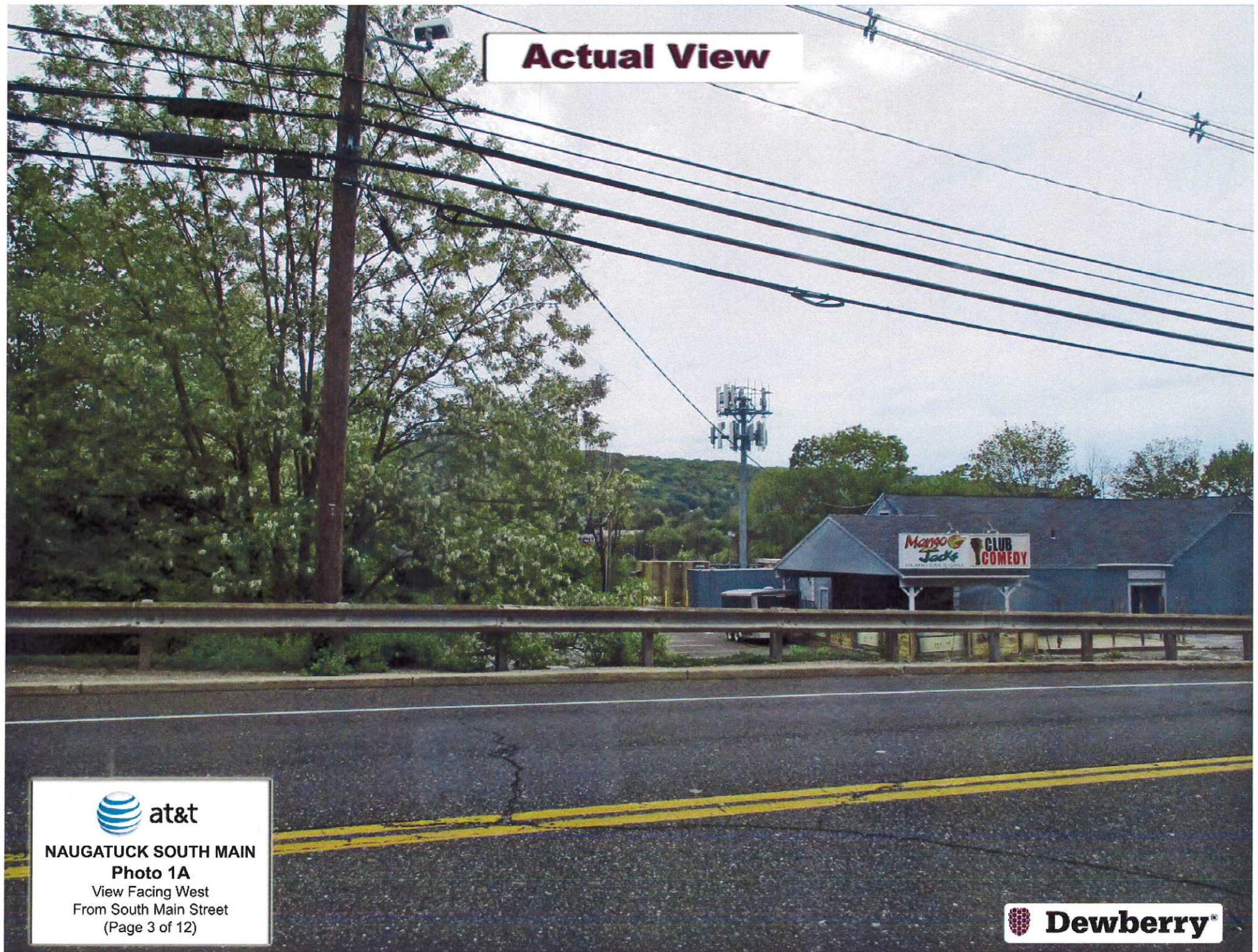
PHOTO 5



NAUGATUCK SOUTH MAIN
585 South Main Street
Naugatuck, CT 06770
New Haven County
(Page 2 of 12)

 **Dewberry**

Actual View



NAUGATUCK SOUTH MAIN

Photo 1A

View Facing West
From South Main Street
(Page 3 of 12)

 **Dewberry®**

Proposed View

Proposed 9' Tall Lightning Rod

Existing AT&T Antennas & Appurtenances
Relocated On New Mount

Proposed 40' Tall Monopole Extension

 at&t
NAUGATUCK SOUTH MAIN
Photo 1B
View Facing West
From South Main Street
(Page 4 of 12)

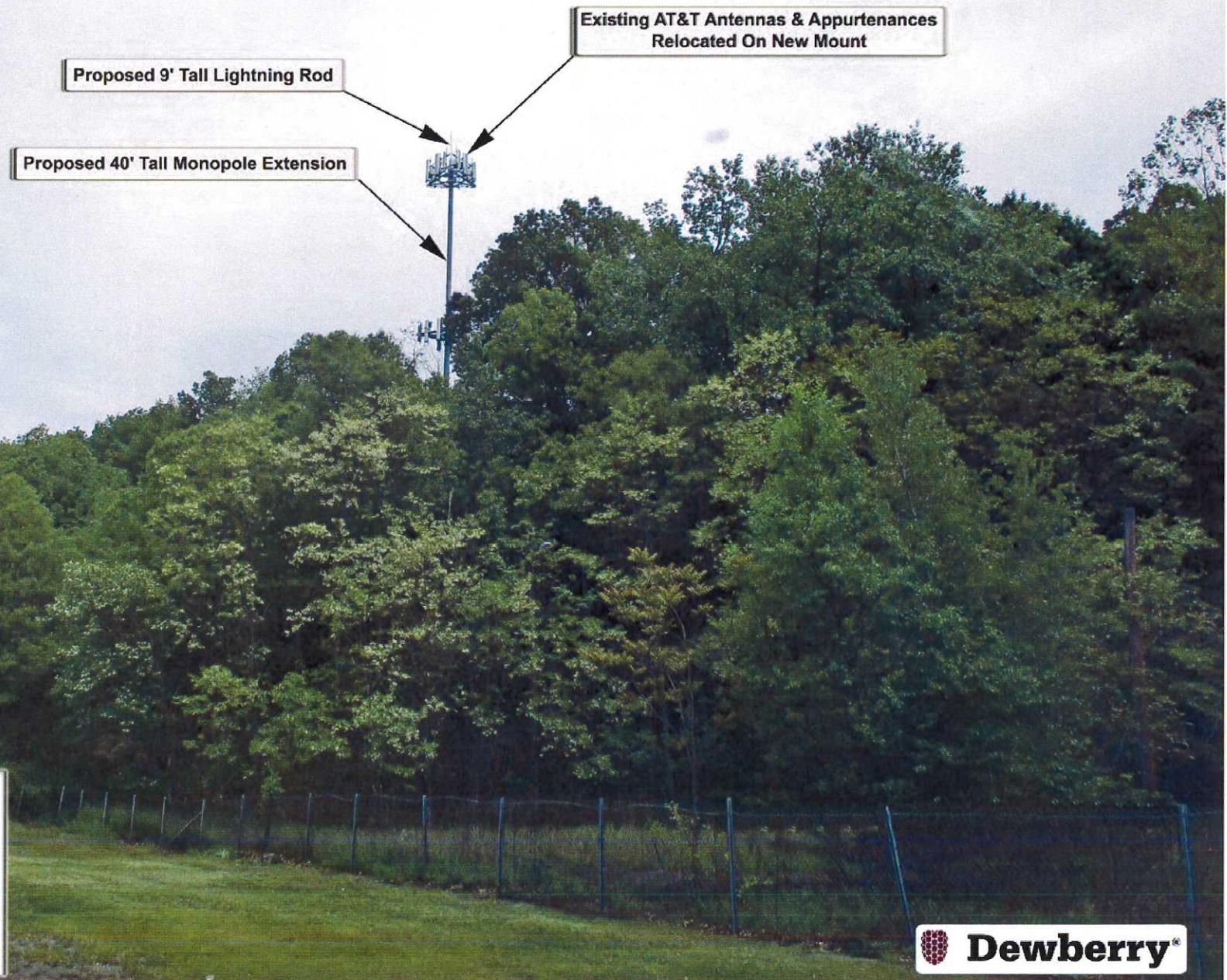
 Dewberry®

Actual View



NAUGATUCK SOUTH MAIN
Photo 2A
View Facing Northeast
From Connecticut Route 8
(Page 5 of 12)

Proposed View

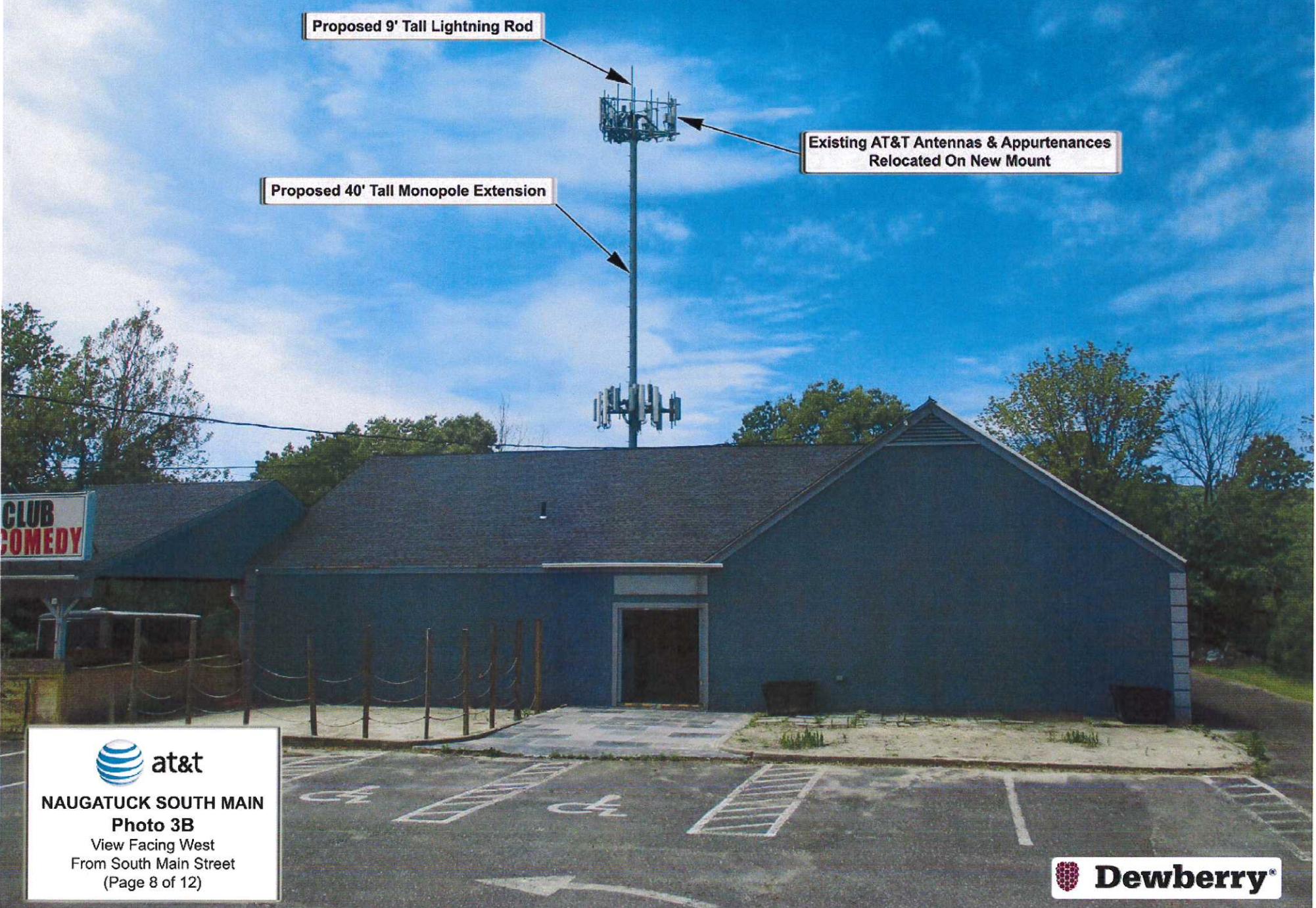


Actual View



NAUGATUCK SOUTH MAIN
Photo 3A
View Facing West
From South Main Street
(Page 7 of 12)

Proposed View



Actual View



NAUGATUCK SOUTH MAIN

Photo 3A

View Facing Southwest
From South Main Street
(Page 9 of 12)

Proposed View



NAUGATUCK SOUTH MAIN
Photo 3B
View Facing Southwest
From South Main Street
(Page 10 of 12)

Actual View

Existing Monopole & Proposed
Monopole Extension Are Not Visible
From This Location

 **at&t**
NAUGATUCK SOUTH MAIN
Photo 5
View Facing South
From South Main Street
(Page 11 of 12)

Note:
Visibility of proposed monopole extension based on the
approximate heights of the surrounding trees & buildings
and the changes in ground elevation obtained from Google
Earth Pro. Photo simulations were completed without the
benefit of a balloon test.

 **Dewberry®**

Actual View

Existing Monopole & Proposed
Monopole Extension Are Not Visible
From This Location

 **at&t**
NAUGATUCK SOUTH MAIN
Photo 6
View Facing South
From South Main Street
(Page 12 of 12)

Note:
Visibility of proposed monopole extension based on the
approximate heights of the surrounding trees & buildings
and the changes in ground elevation obtained from Google
Earth Pro. Photo simulations were completed without the
benefit of a balloon test.

 **Dewberry®**

6

July 28, 2017

Ms. Kristina Oakland
American Tower Corporation
10 Presidential Way
Woburn, Massachusetts 01801

Subject: Memo Regarding Review of Historic Resources
Naugatuck (Telephone Pole) / 302526
585 South Main Street, Naugatuck, CT 06770-4725
EBI Project #6117003583

Dear Ms. Oakland:

American Tower Corporation has contracted EBI Consulting (EBI) to conduct a review of Connecticut State Historic Preservation Office files of historic properties to complete research that will be utilized in the completion of a Section 106 Review.

Based on a review of files conducted on July 26, 2017 by Meghan Gross, Architectural Historian II with EBI Consulting, with computerized records provided by the Connecticut State Historic Preservation Office, zero National Register of Historic Places or Connecticut State Register-listed or eligible historic districts are located within a 1/2 mile radius of the Subject Property. In addition, the tower was determined to have "No Effect" on historic, architectural, or archaeological properties listed on or eligible for the National Register of Historic Places by the Connecticut Historical Commission in a letter dated March 1, 1999. Please see attached letter.

The telecommunications facility was constructed prior to March 31, 2001 according to American Tower Corporation, the tower owner. Please see attached documentation regarding the original construction date of the facility.

Please note that at this time, a review of archaeological resources has not yet been conducted, as the plans do not indicate any new ground disturbance. If any new ground disturbance is proposed, further review may be required.

Please feel free to contact me if you have any further questions or concerns at this time.

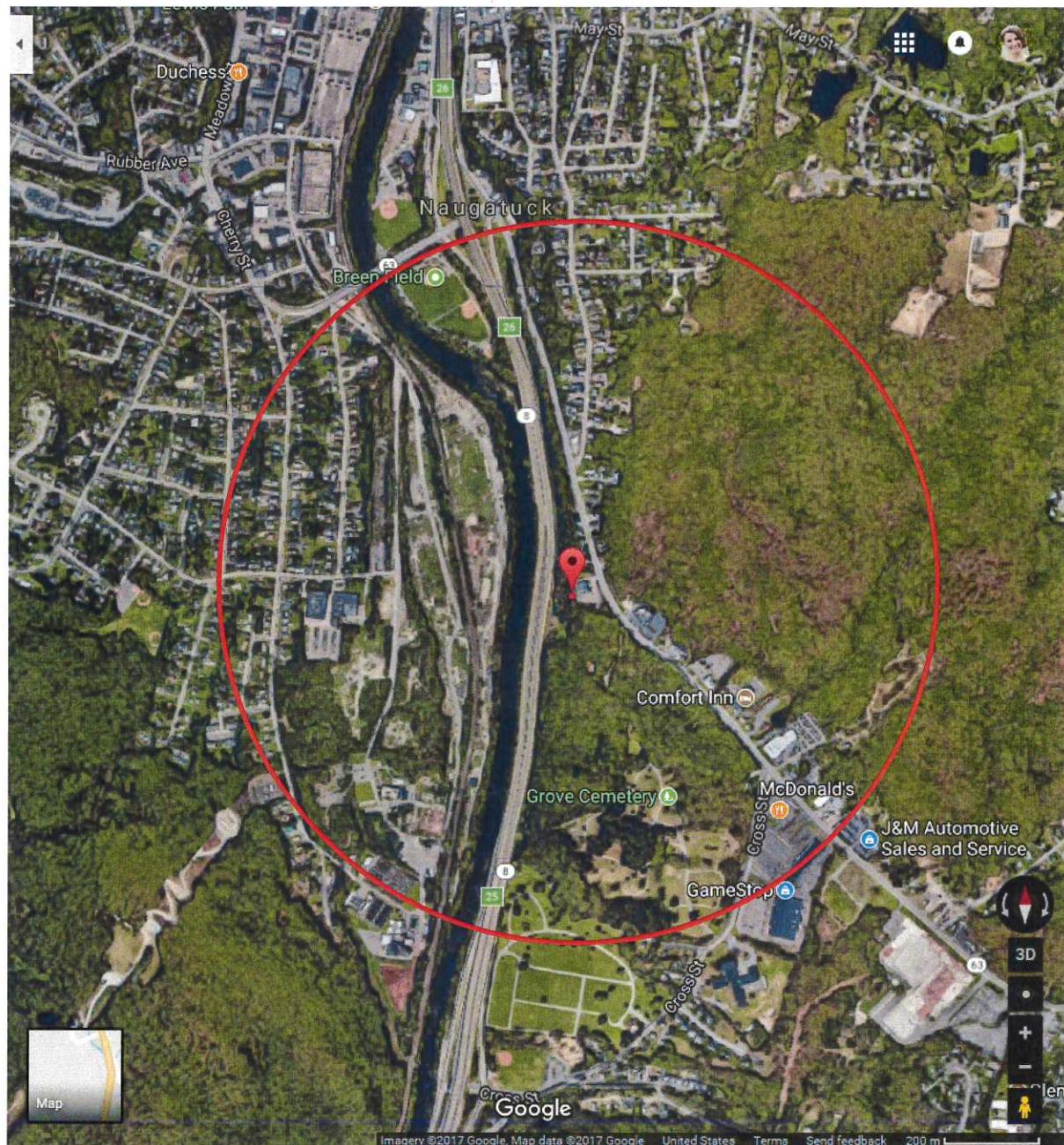
Sincerely,



Ms. Meghan Gross
Architectural Historian II
P: 781-572-0698
F: 617-715-6526
mgross@ebiconsulting.com

Attachments: Historic Resources Map
Project Plans
Previous SHPO Documentation
American Tower PAL

6117003583 Historic Resources Map



APE-VE: $\frac{1}{2}$ mile

585 South Main Street, Naugatuck, CT

No Historic Resources Present

**AMERICAN TOWER®**

ATC TOWER SERVICES
3500 REGENCY PARKWAY
SUITE 100
CARY, NC 27518
PHONE: (919) 468-0112
COA: 6260F



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REV.	DESCRIPTION	BY	DATE
▲	FIRST ISSUE	BJK	06/08/17
▲			
▲			
▲			
▲			

ATC SITE NUMBER:

302526

ATC SITE NAME:
NAUGATUCK (TELEPHONE POLE)

CONNECTICUT

SITE ADDRESS:
585 SOUTH MAIN ST. (SOC. CLUB)
NAUGATUCK, CT 06770

302526 - NAUGATUCK (TELEPHONE POLE), CONNECTICUT

49 FT MONOPOLE MODIFICATIONS W/ PROPOSED 40 FT EXTENSION

AS-BUILT SIGN-OFF

DESCRIPTION	SIGNATURE	DATE
CONTRACTOR NAME		
CONTRACTOR REPRESENTATIVE (PRINT NAME)		
CONTRACTOR REPRESENTATIVE (SIGNATURE)		
REDEVELOPMENT P.M. (PRINT NAME)		
REDEVELOPMENT P.M. (SIGNATURE)		

PROJECT SUMMARY

PROJECT DESCRIPTION

SHEET

SHEET TITLE

REV.

B-1	BILL OF MATERIALS	0
IGN	IBC GENERAL NOTES	0
SIC	SPECIAL INSPECTION CHECKLIST	0
A-1	MODIFICATION PROFILE	0
A-2	FOUNDATION DETAILS	0
A-3	REINFORCEMENT INSTALLATION DETAILS	0
A-3A	REINFORCEMENT INSTALLATION DETAILS (CONT'D)	0
A-4	MONOPOLE EXTENSION INSTALLATION DETAILS	0
F-1	MONOPOLE EXTENSION WELDMENT FABRICATION DETAILS	0
F-1A	MONOPOLE EXTENSION WELDMENT FABRICATION DETAILS (CONT'D)	0
F-1B	MONOPOLE EXTENSION WELDMENT FABRICATION DETAILS (CONT'D)	0
F-2	MONOPOLE EXTENSION WELDMENT FABRICATION DETAILS	0
F-3	TERMINATION BRACKET WELDMENT FABRICATION DETAILS	0
W821-20	#20 BAR BRACKET [W8X21 T-BRACKET]	0
#20SB	#20 STEP BOLT BRACKET FABRICATION AND INSTALLATION DETAILS	0
CP1575BC	CAP PLATE FABRICATION DETAILS	0

DRAWN BY:	BJK
APPROVED BY:	TJG/AT
DATE DRAWN:	06/08/17
ATC JOB NO:	OAA698250_C6_03

COVER

SHEET NUMBER:	REVISION:
COVER	0

ATC PROJECT NUMBER: OAA698250_C6_03
 CUSTOMER: AT&T MOBILITY
 CUSTOMER SITE NAME: NAUGATUCK SOUTH MAIN
 CUSTOMER SITE NUMBER: CT2166
 SITE ADDRESS: 585 SOUTH MAIN ST. (SOC. CLUB)
 NAUGATUCK, CT 06770
 DATE: 06/08/17
 GEOGRAPHIC COORDINATES: 41.47844
 -73.0485

BILL OF MATERIALS

QUANTITY REQUIRED	QUANTITY PROVIDED	PART NUMBER	DESCRIPTION	LENGTH	SHEET LIST	PART WEIGHT	WEIGHT (lb)	NOTES
DYWIDAG REINFORCEMENT MATERIAL & HARDWARE								
6	6	---	#20 DYWIDAG THREADBAR	30'-0"	A-2, A-3	501.0	3006	GALVANIZED
3	3	---	#20 COUPLER W/ (2) HEX NUTS EA.	---	---	---	---	GALVANIZED
65	65	W821-20	W8X21	1'-3"	A-2, A-3, W621-20	27.6	1794	#20 T-BRACKET
3	3	302526-3	TERMINATION BRACKET WELDMENT	2'-5 15/16"	A-3, F-3	46.7	140	
189	198	RUH4	RU-BOLT, 5/8"Ø X 3 1/8" C/C	---	BR-20C	---	---	(2) HHN-LKW / GALVANIZED
145	152	LHMB16H1-HDG	HOLLOW-BOLT, 5/8"Ø (M16) LINDAPTER	---	---	---	---	HOT-DIPPED GALVANIZED
35	40	#20SB	STEP BOLT WELDMENT	0'-7 1/4"	#20SB	2.5	100	
EXTENSION MATERIAL & HARDWARE								
1	1	302526-1	12.75" OD PIPE EXTENSION WELDMENT	20'-0"	A-4, F-1, F-1A, F-1B	1776.1	1776	
1	1	302526-2	12.75" OD PIPE EXTENSION WELDMENT	20'-0"	A-4, F-2, F-1A	1267.6	1268	
1	1	CP1575BC	PL 1/8" X 18 3/4"	1'-6 3/4"	A-4, CP1575BC	10.3	10	
2	3	---	BOLT, 1"Ø ASTM A325	3"	---	---	---	HHN-LKW-FW / GALVANIZED
30	32	---	BOLT, 1"Ø ASTM A325	4 3/4"	---	---	---	HHN / GALVANIZED
48	50	---	FLAT WASHER, 1"Ø ASTM F436	---	---	---	---	GALVANIZED
30	32	---	DTI SQUINTER WASHER, 1"Ø (A325 RATED)	---	---	---	---	GALVANIZED
32	33	---	STEP BOLT, 5/8"Ø ASTM A449 W/ 4 1/2" MIN. UNTHREADED SHANK	8"±	---	---	---	(2) HHN-LKW / GALVANIZED
1	1	---	SAFETY CLIMB CABLE, 3/8" EHS	89'-0"	---	---	---	STAINLESS STEEL
TOTAL WEIGHT (lb)						8,094	PAGE 1 OF 1	



ATC TOWER SERVICES
3600 REGENCY PARKWAY
SUITE 100
CARY, NC 27518
PHONE: (919) 468-0112
COA: 6260F

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REV.	DESCRIPTION	BY	DATE
△	FIRST ISSUE	BJK	06/08/17
△			
△			
△			

ATC SITE NUMBER:
302526
ATC SITE NAME:
NAUGATUCK (TELEPHONE POLE)
CONNECTICUT
SITE ADDRESS:
585 SOUTH MAIN ST. (SOC. CLUB)
NAUGATUCK, CT 06770

DRAWN BY:	BJK
APPROVED BY:	TJ/GAT
DATE DRAWN:	06/08/17
ATC JOB NO:	0AA698250_C6_03

BILL OF MATERIALS

SHEET NUMBER:	REVISION:
B-1	0

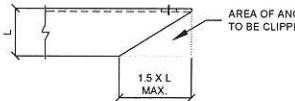
GENERAL

1. ALL WORK TO BE COMPLETED PER APPLICABLE LOCAL, STATE, FEDERAL CODES AND ORDINANCES AND COMPLY WITH ATC MASTER SPECIFICATIONS FOR WIRELESS TOWER SITES. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND ABIDING BY ALL REQUIRED PERMITS.
2. ALL WORK INDICATED ON THESE DRAWINGS SHALL BE PERFORMED BY QUALIFIED CONTRACTORS EXPERIENCED IN TOWER AND FOUNDATION CONSTRUCTION.
3. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD IMMEDIATELY OF ANY INSTALLATION INTERFERENCES. ALL NEW WORK SHALL ACCOMMODATE EXISTING CONDITIONS. DETAILS NOT SPECIFICALLY SHOWN ON THE DRAWINGS SHALL FOLLOW SIMILAR DETAILS FOR THIS JOB.
4. ANY SUBSTITUTIONS SHALL CONFORM TO THE REQUIREMENTS OF THESE NOTES AND SPECIFICATIONS, AND SHOULD BE SIMILAR TO THOSE SHOWN. ALL SUBSTITUTIONS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
5. ANY MANUFACTURED DESIGN ELEMENTS SHALL CONFORM TO THE REQUIREMENTS OF THESE NOTES AND SPECIFICATIONS AND SHOULD BE SIMILAR TO THOSE SHOWN. THESE DESIGN ELEMENTS MUST BE STAMPED BY AN ENGINEER PROFESSIONALLY REGISTERED IN THE STATE OF THE PROJECT, AND SUBMITTED TO THE ENGINEER OF RECORD FOR APPROVAL PRIOR TO FABRICATION.
6. ALL WORK SHALL BE DONE IN ACCORDANCE WITH LOCAL CODES AND OSHA SAFETY REGULATIONS.
7. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND EXECUTION OF ALL MISCELLANEOUS SHORING, BRACING, TEMPORARY SUPPORTS, ETC. NECESSARY, PER TIA-109-A-2011, TO PROVIDE A COMPLETE AND STABLE STRUCTURE AS SHOWN ON THESE DRAWINGS.
8. CONTRACTOR'S PROPOSED INSTALLATION SHALL NOT INTERFERE, NOR DENY ACCESS TO, ANY EXISTING OPERATIONAL AND SAFETY EQUIPMENT.

STRUCTURAL STEEL

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

MAXIMUM ALLOWABLE ANGLE CLIP



PAINT

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

WELDING

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

BOLT TIGHTENING PROCEDURE

1. STRUCTURAL CONNECTIONS TO BE ASSEMBLED AND INSPECTED IN ACCORDANCE WITH RCSC-2004 (SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR ASTM A490 BOLTS.)
2. FLANGE BOLTS SHALL BE INSTALLED AND TIGHTENED USING DIRECT TENSION INDICATING (DTI) SQUIRTER WASHERS. DTI SQUIRTER WASHERS ARE TO BE INSTALLED AND ORIENTED / TIGHTENED PER MANUFACTURER SPECIFICATIONS TO ACHIEVE DESIRED LEVEL OF BOLT PRE-TENSION.
3. IN LIEU OF USING DTI SQUIRTER WASHERS, FLANGE BOLTS MAY BE TIGHTENED USING AISC / RCSC "TURN-OF-THE-NUT" METHOD, PENDING APPROVAL BY THE ENGINEER OF RECORD (EOR). TIGHTEN FLANGE BOLTS USING THE CHART BELOW.

BOLT LENGTHS UP TO AND INCLUDING FOUR DIAMETERS

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

BOLT LENGTHS OVER FOUR DIAMETERS BUT NOT EXCEEDING EIGHT DIAMETERS

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

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

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

8.2.1 TURN-OF-NUT PRETENSIONING

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

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

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

APPLICABLE CODES AND STANDARDS

1. ANSI/TIA: STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES, 222-G EDITION.
2. 2016 CONNECTICUT STATE BUILDING CODE.
3. 2012 INTERNATIONAL BUILDING CODE.
4. ACI 318: AMERICAN CONCRETE INSTITUTE, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, 318-02.
5. CRSI: CONCRETE REINFORCING STEEL INSTITUTE, MANUAL OF STANDARD PRACTICE, LATEST EDITION.
6. AISC: AMERICAN INSTITUTE OF STEEL CONSTRUCTION, MANUAL OF STEEL CONSTRUCTION, LATEST EDITION.
7. AWS: AMERICAN WELDING SOCIETY D1.1, STRUCTURAL WELDING CODE, LATEST EDITION.

SPECIAL INSPECTION

1. A QUALIFIED INDEPENDENT TESTING LABORATORY, EMPLOYED BY THE OWNER, SHALL PERFORM INSPECTION AND TESTING IN ACCORDANCE WITH IBC 2012, SECTION 1704 AS REQUIRED BY PROJECT SPECIFICATIONS FOR THE FOLLOWING CONSTRUCTION WORK:
 - a) STRUCTURAL WELDING (CONTINUOUS INSPECTION OF FIELD WELD ONLY)
 - b) HIGH STRENGTH BOLTS (PERIODIC INSPECTION OF A325 EXTENSION FLANGE BOLTS TO BE TIGHTENED PER "TURN-OF-THE-NUT" METHOD)
2. THE INSPECTION AGENCY SHALL SUBMIT INSPECTION AND TEST REPORTS TO THE BUILDING DEPARTMENT, THE ENGINEER OF RECORD, AND THE OWNER IN ACCORDANCE WITH IBC 2012, SECTION 1704, UNLESS THE FABRICATOR IS APPROVED BY THE BUILDING OFFICIAL TO PERFORM SUCH WORK WITHOUT THE SPECIAL INSPECTIONS.



REV.	DESCRIPTION	BY	DATE
▲	FIRST ISSUE	BJK	06/08/17
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ATC SITE NUMBER:
302526
ATC SITE NAME:
NAUGATUCK (TELEPHONE POLE)
CONNECTICUT
SITE ADDRESS:
585 SOUTH MAIN ST. (SOC. CLUB)
NAUGATUCK, CT 06770

DRAWN BY:	BJK
APPROVED BY:	TJG/AT
DATE DRAWN:	06/08/17
ATC JOB NO.:	OAA698250_C6_03

IBC GENERAL NOTES

SHEET NUMBER:	IGN
REVISION:	0

MODIFICATION INSPECTION NOTES

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

TO ENSURE THAT THE REQUIREMENTS OF THE SI ARE MET, IT IS VITAL THAT THE GENERAL CONTRACTOR AND THE INSPECTOR BEGIN COMMUNICATING AND COORDINATING AS SOON AS A PO IS RECEIVED FROM AMERICAN TOWER CORPORATION (ATC). IT IS EXPECTED THAT EACH PARTY WILL PROACTIVELY REACH OUT TO THE OTHER PARTY, IF CONTACT INFORMATION IS NOT KNOWN, CONTACT YOUR AMERICAN TOWER POINT OF CONTACT.

SPECIAL INSPECTOR

THE SPECIAL INSPECTOR IS REQUIRED TO CONTACT THE GENERAL CONTRACTOR AS SOON AS RECEIVING A PO FROM ATC. UPON RECEIVING A PO FROM ATC THE SPECIAL INSPECTOR AT A MINIMUM MUST:

- REVIEW THE REQUIREMENTS OF THE SI CHECKLIST.
- WORK WITH THE GENERAL CONTRACTOR TO DEVELOP A SCHEDULE TO CONDUCT ON-SITE INSPECTIONS, INCLUDING FOUNDATION INSPECTIONS.
- ANY CONCERN WITH THE SCOPE OF WORK OR PROJECT COMMITMENT MUST BE RELAYED TO THE ATC POINT OF CONTACT IMMEDIATELY.

THE SPECIAL INSPECTOR IS RESPONSIBLE FOR COLLECTING ALL GENERAL CONTRACTOR INSPECTION AND TEST REPORTS, REVIEWING THESE DOCUMENTS FOR ADHERENCE TO CONTRACT DOCUMENTS, CONDUCTING THE IN-FIELD INSPECTIONS, AND SUBMITTING THE SI REPORT TO AMERICAN TOWER CORPORATION.

GENERAL CONTRACTOR

THE GENERAL CONTRACTOR IS REQUIRED TO CONTACT THE SI INSPECTOR AS SOON AS RECEIVING A PO FOR THE MODIFICATION INSTALLATION OR TURNKEY PROJECT TO, AT A MINIMUM:

- REVIEW THE REQUIREMENTS OF THE SI CHECKLIST.
- WORK WITH THE SI TO DEVELOP A SCHEDULE TO CONDUCT ON-SITE INSPECTIONS, INCLUDING FOUNDATION INSPECTIONS.
- BETTER UNDERSTAND ALL INSPECTION AND TESTING REQUIREMENTS.

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



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APPROVED BY: TJG/AT
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SPECIAL INSPECTION CHECKLIST

INSPECTION DOCUMENT	DESCRIPTION	INSPECTION TESTING REQUIRED	RESPONSIBILITY	SI REVIEW REQUIRED			INSPECTION FREQUENCY
				PRE CX	DURING CX	POST CX	
SPECIAL INSPECTION FIELD WORK & REPORT	DOCUMENTATION AND SITE VISIT CONDUCTED BY AN ATC APPROVED SPECIAL INSPECTOR AS REQUIRED BY ATC AND OTHER AUTHORITIES HAVING JURISDICTION. INSPECTION PARAMETERS TO FOLLOW ATC'S STANDARD SPECIFICATION FOR WIRELESS TOWER SITES.	✓	SI			✓	
ENGINEERING ASSEMBLY DRAWINGS	GC SHALL SUBMIT DRAWINGS TO SI FOR INCLUSION IN SI REPORT	✓	GC	✓			
FABRICATED MATERIAL VERIFICATION & INSPECTION	MTR AND OR MILL CERTIFICATIONS FOR SUPPLIED MATERIALS GC SHALL SUPPLY SI WITH REPORTS TO BE INCLUDED IN SI REPORT WHEN REQUIRED BY ATC	✓	SI	✓			
CERTIFIED WELD INSPECTION	INSPECTION AND REPORT OF STRUCTURAL WELDING PERFORMED DURING PROJECT COMPLETED BY A CM AND INCLUDED WITHIN SI REPORT	✓	GC / TA			✓	✓
FOUNDATION INSPECTION & VERIFICATION	VISUAL OBSERVATION AND APPROVAL OF FOUNDATION EXCAVATION, REBAR PLACEMENT, CASING/SHORING/FORMING PLACEMENT, AND ANCHOR TEMPLATE AND ANCHOR PLACEMENT - TO BE SI APPROVED PRIOR TO CONCRETE POUR AND DOCUMENTED IN THE SI REPORT		SI				
ANCHOR, ROCK ANCHOR OR HELICAL PULL-OUT TEST	PULL TESTING OF INSTALLED ANCHORS TO BE COMPLETED AND DOCUMENTED IN SI REPORT		GC / TA				
CONCRETE INSPECTION & VERIFICATION	CONCRETE MIX DESIGN, SLUMP TEST, COMPRESSIVE TESTING, AND SAMPLE GATHERING TECHNIQUES ARE TO BE PROVIDED FOR INCLUSION IN THE SI REPORT. SI SHALL VERIFY CONCRETE PLACEMENT AS REQUIRED BY THE DESIGN DOCUMENTS (INSPECTION FREQUENCY IS MARKED CONTINUOUS)		GC / TA				
DYWDIG PLACEMENT/ANCHOR BOLT EMBEDMENT - EPOXY/GROUT INSTALL	ANCHOR/BAR EMBEDMENT, HOLE SIZE, EPOXY/GROUT TYPE, INSTALLATION TEMPERATURE AND INSTALLATION SHALL BE VERIFIED BY THE SI AND INCLUDED IN THE SI REPORT	✓	GC / SI		✓		✓
BASE PLATE GROUT INSPECTION & VERIFICATION	BASE PLATE GROUTING TYPE AND PLACEMENT SHALL BE CONFIRMED BY THE SI AND INCLUDED IN THE SI REPORT		GC / SI				
EARTHWORK INSPECTION & VERIFICATION	EXCAVATION, FILL, SLOPE, GRADE AND OTHER EARTHWORK REQUIREMENTS PER PLANS SHALL BE VERIFIED BY THE SI AND INCLUDED IN THE SI REPORT		GC / TA				
COMPACTION VERIFICATION	CONTRACTOR SHALL PROVIDE AN INDEPENDENT THIRD PARTY CERTIFIED INSPECTION WHICH PROVIDES TEST RESULTS FOR COMPACTION TEST OF SOILS IN PLACE TO ASTM STANDARDS.		GC / TA				
GROUND TESTING & VERIFICATION	SI SHALL PROVIDE DOCUMENTATION SHOWING THAT THE GROUNDING SYSTEM SHALL HAVE A MEASURED RESISTANCE TO THE GROUND OF NOT MORE THAN THE RECOMMENDED 10 OHMS. PER THE ATC CONSTRUCTION SPECIFICATION UNDER SECTION 2.15 THIS DOCUMENTATION MUST BE AN INDEPENDENT CERTIFICATION.		GC				
STEEL CONSTRUCTION INSPECTION & VERIFICATION	VISUAL OBSERVATION AND APPROVAL OF STEEL CONSTRUCTION TO BE PERFORMED BY THE SI. INSPECTION TO INCLUDE VERIFICATION OF NEW CONSTRUCTION OR MODIFICATION OF EXISTING CONSTRUCTION PER ENGINEERED PLANS. DETAILED VERIFICATION SHALL BE INCLUDED IN SI REPORT.	✓	SI		✓	✓	
ON-SITE COLD GALVANIZING VERIFICATION	SI SHALL VERIFY WITH GC ALL COLD GALVANIZATION TYPE AND APPLICATION AND INCLUDE SUMMARY IN SI REPORT	✓	GC		✓	✓	
GUY WIRE TENSIONING & TOWER ALIGNMENT REPORT	GC SHALL PROVIDE SI EVIDENCE OF PROPER GUY TENSIONING AND TOWER PLUMB PER PLANS. SI SHALL VERIFY AND INCLUDE PLUMB AND TENSION REPORTING IN SI REPORT.		GC				
GC AS-BUILT DRAWINGS WITH CONSTRUCTION RED-LINES	GC SHALL SUBMIT "AS-BUILT" DRAWINGS INDICATING ANY APPROVED CHANGES TO ENGINEERED PLANS TO SI FOR APPROVAL/REVIEW AND INCLUSION IN SI REPORT	✓	GC		✓		
SI AS-BUILT DRAWINGS WITH INSPECTION RED-LINES (AS REQUIRED)	SI SHALL SUBMIT "AS-BUILT" DRAWINGS INDICATING ANY APPROVED CHANGES TO ENGINEERED PLANS WITHIN SI REPORT	✓	SI			✓	
TIA INSPECTION	SI SHALL COMPLETE TIA INSPECTION AND PROVIDE SEPARATE TIA INSPECTION DOCUMENTATION TO ATC CM		SI				
PHOTOGRAPHS	PHOTOGRAPHIC EVIDENCE OF SPECIAL INSPECTION, ON SITE REMEDIATION, AND ITEMS FAILING INSPECTION & REQUIRING FOLLOW UP TO BE INCLUDED WITHIN THE SI REPORT. COMPLETE PHOTO LOG IS TO BE SUBMITTED WITHIN SI REPORT.	✓	GC / SI			✓	

NOTE: SPECIAL INSPECTIONS ARE INTENDED TO BE A COLLABORATIVE EFFORT BETWEEN GC AND SI. WHENEVER POSSIBLE GC IS TO PROVIDE SI WITH PHOTOGRAPHIC OR OTHER ACCEPTABLE EVIDENCE OF PROPER INSTALLATION IF PERIODIC INSPECTION FREQUENCY IS ACCEPTABLE. THE GC AND SI SHALL WORK TO COMPILE EVIDENCE OF PROPER CONSTRUCTION AND LIMIT THE NUMBER OF SI SITE VISITS REQUIRED.

TABLE KEY:
SI - ATC APPROVED SPECIAL INSPECTOR CX - CONSTRUCTION
GC - GENERAL CONTRACTOR CM - CONSTRUCTION MANAGER
TA - 3RD PARTY TESTING AGENCY ATC - AMERICAN TOWER CORPORATION

SHEET NUMBER: SIC
REVISION: 0

AT&T MOBILITY
EL: 89.0' [PROPOSED]

EL: 89.0'
[PROPOSED TOP OF STRUCTURE]

SECTION 3

EL: 69.0'

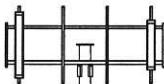
SECTION 2

EL: 49.0'
[EXISTING TOP OF STRUCTURE]

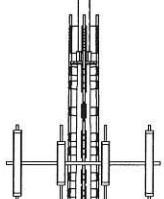
SECTION 1

EL: 0.0'
[BOTTOM OF STRUCTURE]

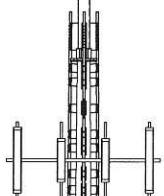
TOWER ELEVATION VIEW



INSTALL 20.0' MONOPOLE EXTENSION
[12.75" OD X 0.375" PIPE]
FROM EL: 69.0' TO 89.0'
SEE SHEET A-4 FOR
INSTALLATION DETAILS.



INSTALL 20.0' MONOPOLE EXTENSION
[12.75" OD X 0.500" PIPE]
FROM EL: 49.0' TO 69.0'
SEE SHEET A-4 FOR
INSTALLATION DETAILS.
[SEE NOTE #2]



MOUNT MAY REQUIRE SUPPORT AND
RE-MOUNTING DURING INSTALLATION.
SEE NOTE BELOW.

INSTALL (3) #20 DYWIDAG REINFORCEMENT BARS
FROM EL: 4.6' TO 53.5'. SEE SHEETS
A-2, A-3 & A-3A FOR INSTALLATION DETAILS.

NOTES:
1. PROPOSED AT&T MOBILITY COAX TO BE INSTALLED INSIDE MONOPOLE.
2. CONTRACTOR TO INSTALL 20.0' MONOPOLE EXTENSION [12.75" OD X 0.500"
PIPE] FROM EL: 49.0' TO 69.0' PRIOR TO INSTALL OF (3) #20 DYWIDAG
REINFORCEMENT BARS.
3. CONTACT AMERICAN TOWER FIELD OPERATIONS WHEN EXISTING
EQUIPMENT INTERFERES WITH INSTALLATION OF MODIFICATIONS. ONCE
APPROVED, EXISTING EQUIPMENT MAY BE TEMPORARILY MOVED DURING
INSTALLATION & REINSTALLED TO THE ORIGINAL HEIGHT & LOCATION BY
CONTRACTOR POST COMPLETION OF MODIFICATIONS.



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WHICH RELATED TO AMERICAN TOWER OR THE SPECIFIED CARRIER IS
STRICTLY PROHIBITED. TITLE TO THESE DOCUMENTS SHALL
REMAINTAIN PROPERTY OF AMERICAN TOWER WHETHER OR NOT
THE PROJECT IS EXECUTED. NEITHER THE ARCHITECT NOR THE
ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW
OF THIS DRAWING. THE CONTRACTOR IS RESPONSIBLE FOR
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DISPARANCES. ANY PRIOR ISSUANCE OF THIS DRAWING IS
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MODIFICATION PROFILE

SHEET NUMBER:	REVISION:
A-1	0



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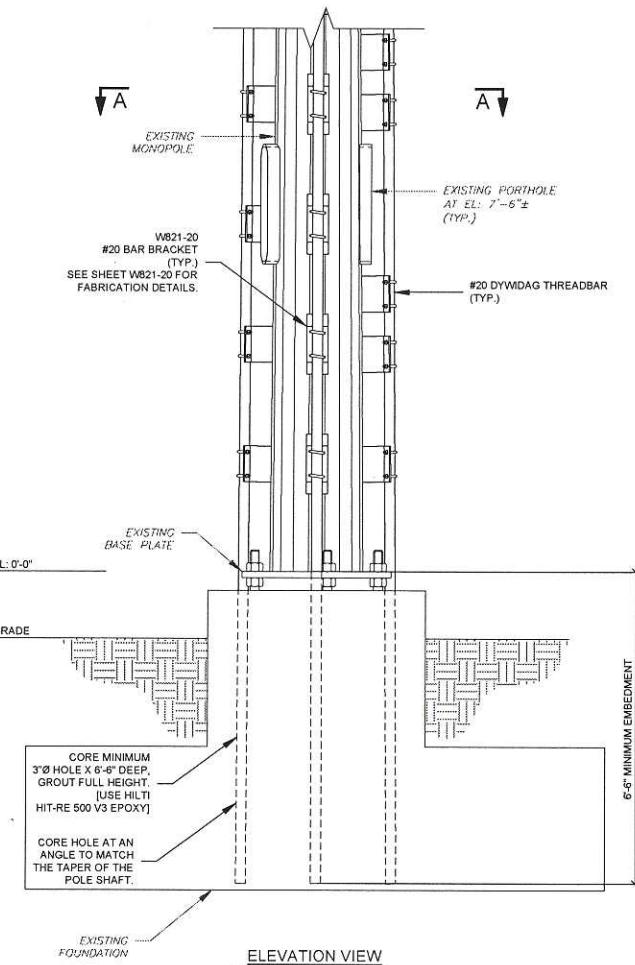
ATC SITE NUMBER

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NAUGATUCK (TELEPHONE POLE)

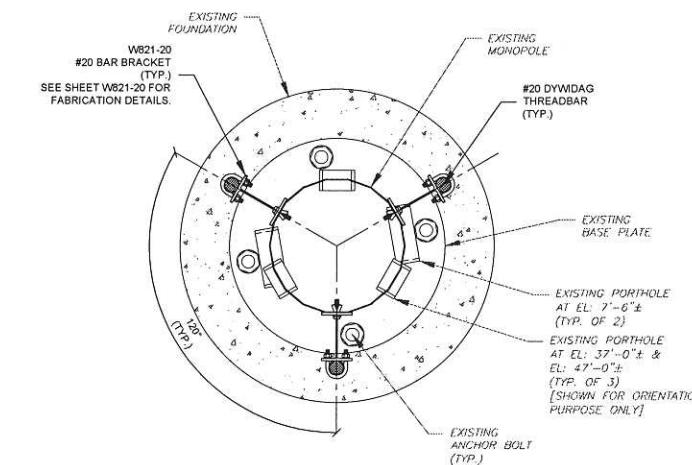
CONNECTICUT

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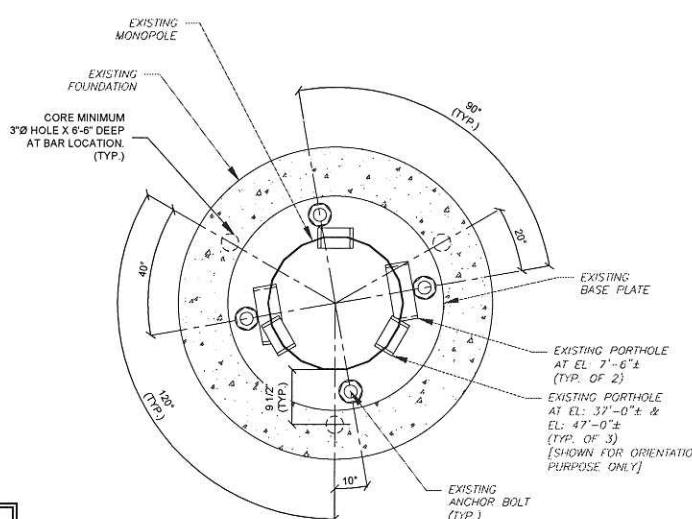


NOTES:

1. UNLESS SPECIFIED OTHERWISE, CONTRACTOR IS TO REMOVE ALL GROUT BELOW BASE PLATE AND VERIFY / TIGHTEN ALL LEVELING NUTS.
2. CONTRACTOR TO CONTACT ENGINEER OF RECORD IF EXISTING REBAR IS ENCOUNTERED DURING CORING.



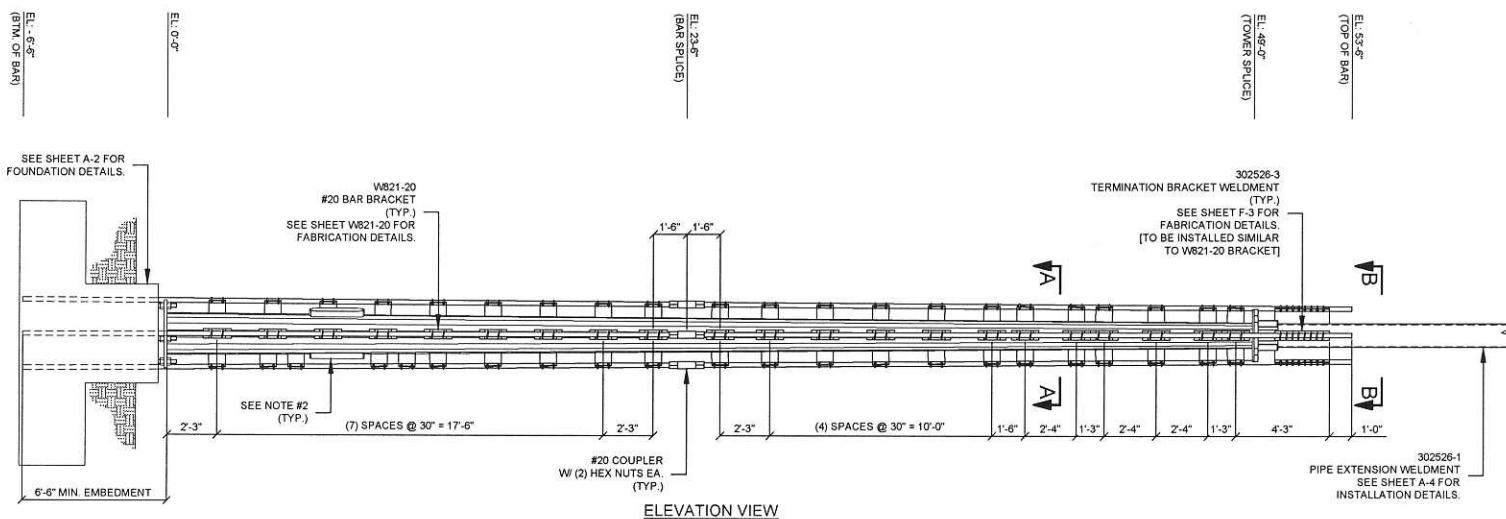
PLAN VIEW
SECTION "A-A"



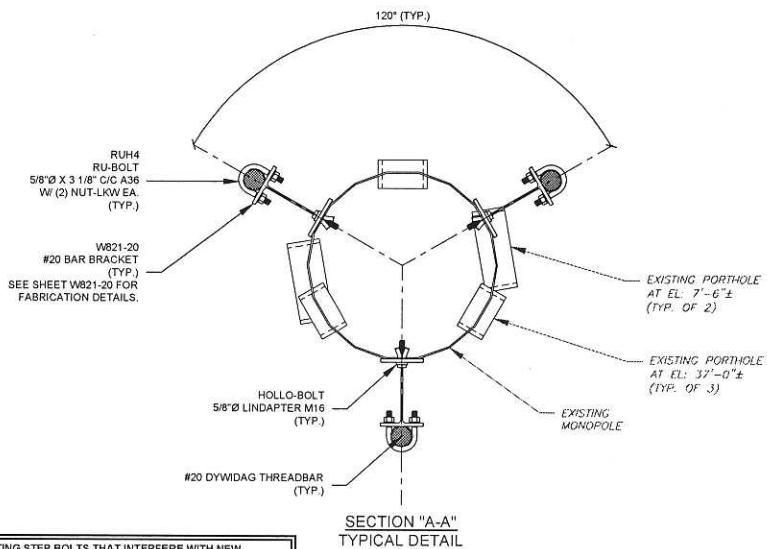
PLAN VIEW
HOLE DRILL DETAIL

FOUNDATION DETAILS

SHEET NUMBER:	REVISION:
A-2	0



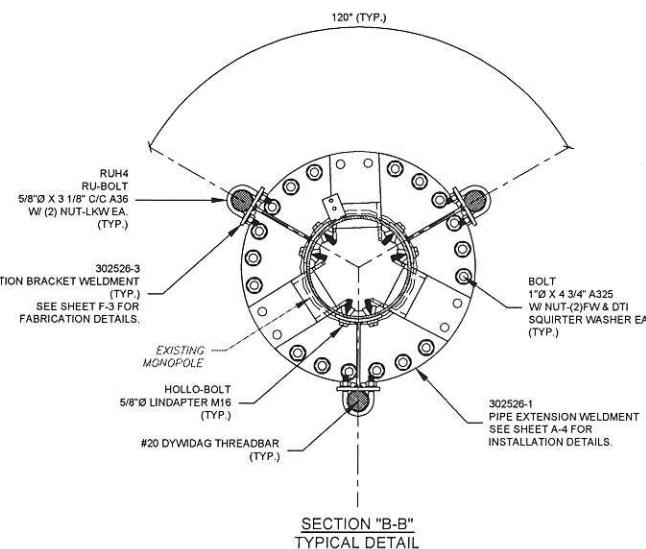
ELEVATION VIEW
#20 BAR BRACKET SPACING DETAIL



SECTION "A-A"
TYPICAL DETAIL

NOTES:

1. REPLACE ANY EXISTING STEP BOLTS THAT INTERFERE WITH NEW REINFORCING BARS. THE NEW STEP SHALL BE ATTACHED TO THE REINFORCING BARS IN THE SAME APPROXIMATE LOCATION. SEE SHEET #20SB FOR INSTALLATION DETAILS.
2. PLACE A BRACKET (W821-20) DIRECTLY ABOVE AND BELOW ANY EXISTING PORTHOLE AS REQUIRED.
3. SEE SHEET A-3A #20 FOR 20 BAR BRACKET INSTALLATION DETAILS.



SECTION "B-B"
TYPICAL DETAIL

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COA: 6260F	
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REV.	DESCRIPTION
▲	<u>FIRST ISSUE</u>
▲	_____
▲	_____
▲	_____
ATC SITE NUMBER: 302526	
ATC SITE NAME: NAUGATUCK (TELEPHONE POLE)	
CONNECTICUT	
SITE ADDRESS: 585 SOUTH MAIN ST. (SOC. CLUB) NAUGATUCK, CT 06770	
DRAWN BY:	BJK
APPROVED BY:	TJG/AT
DATE DRAWN:	06/08/17
ATC JOB NO:	0AA698250_C6_03
REINFORCEMENT INSTALLATION DETAILS	
SHEET NUMBER:	REVISION:
A-3	0



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REV.	DESCRIPTION	BY	DATE
1	FIRST ISSUE	BJK	06/08/17
2			
3			
4			
5			

ATC SITE NUMBER:

NAUGATUCK (TELEPHONE POLE)

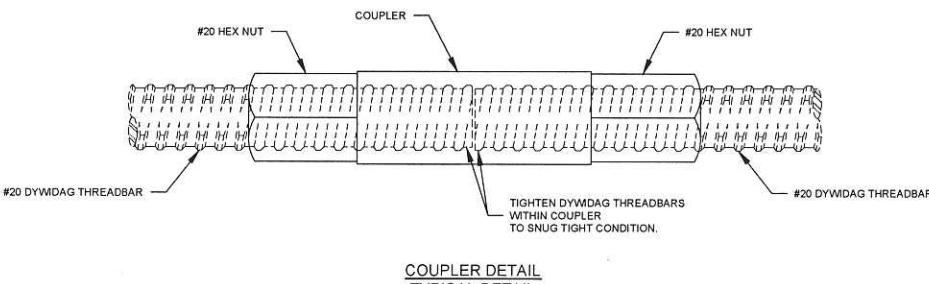
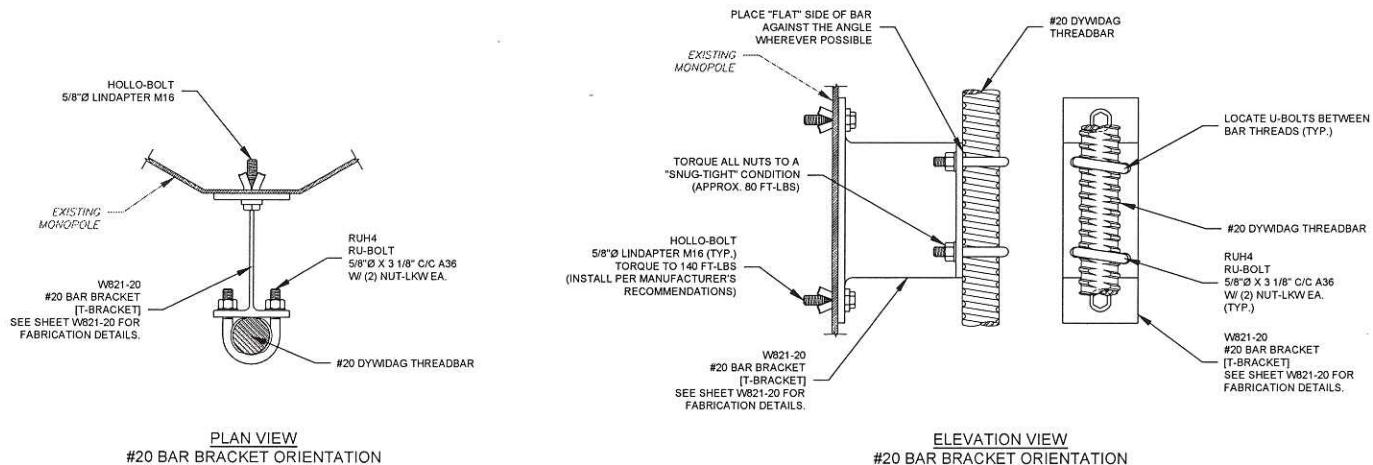
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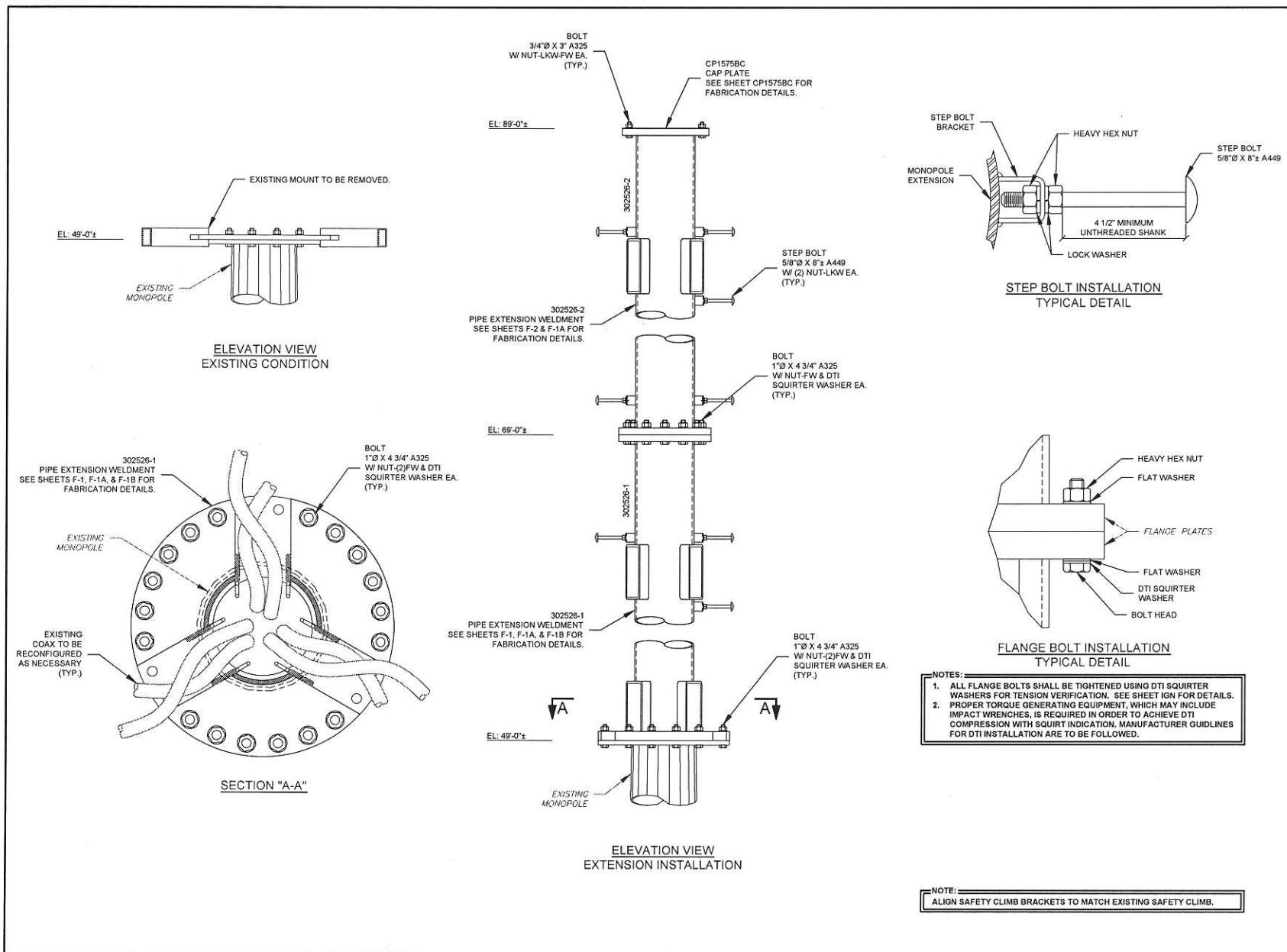
SITE ADDRESS:
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DRAWN BY:	BJK
APPROVED BY:	TJG/AT
DATE DRAWN:	06/08/17
ATC JOB NO:	0AA698250_C6_03

REINFORCEMENT
INSTALLATION DETAILS
(CONT'D)

SHEET NUMBER:	REVISION:
A-3A	0





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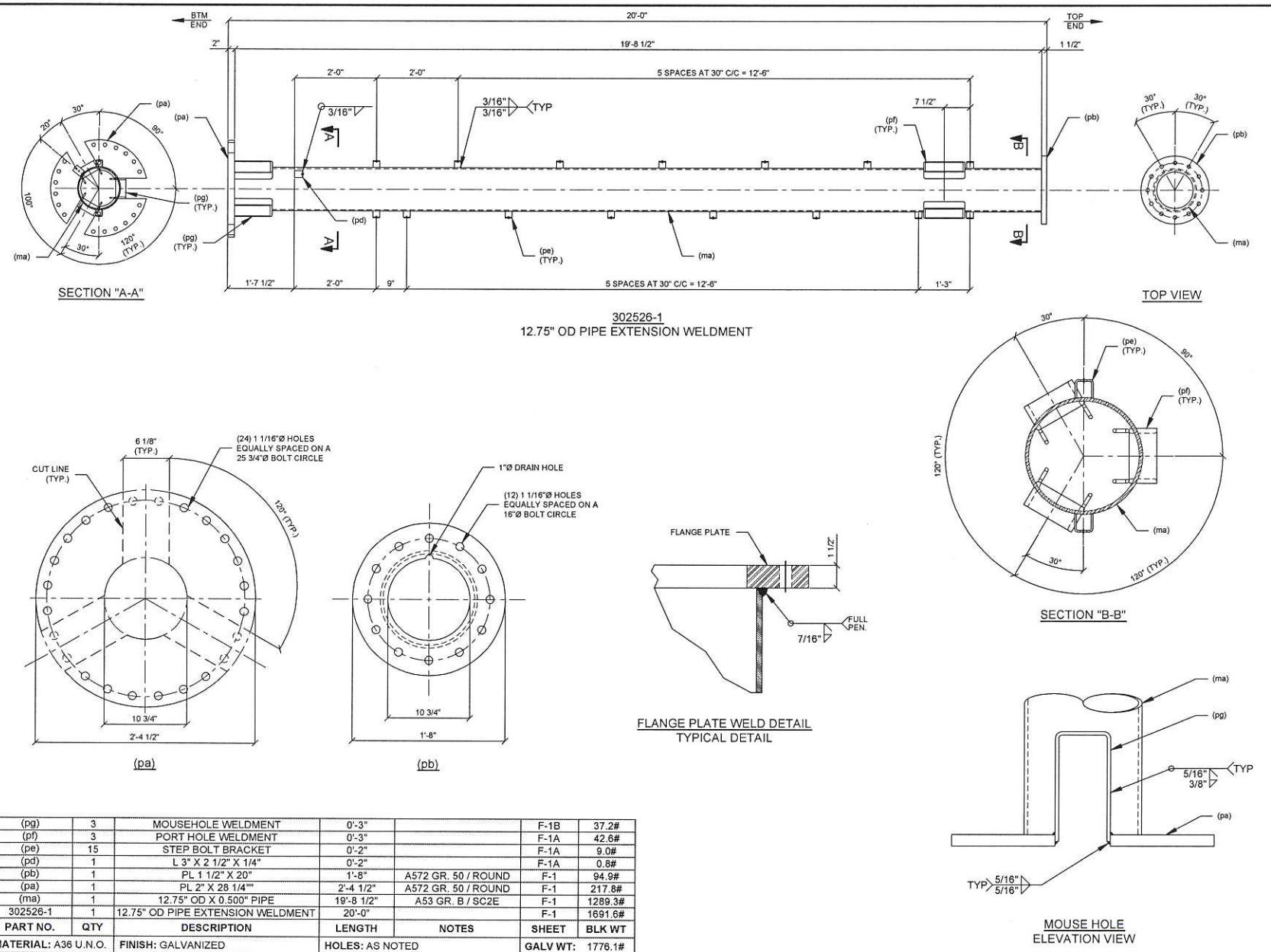
ATC SITE NAME:
NAUGATUCK (TELEPHONE POLE)
CONNECTICUT

SITE ADDRESS:
585 SOUTH MAIN ST. (SOC. CLUB)
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DRAWN BY:	BJK
APPROVED BY:	TJG/AT
DATE DRAWN:	06/08/17
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MONOPOLE EXTENSION INSTALLATION DETAILS

SHEET NUMBER:	A-4
REVISION:	0



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302526

ATC SITE NAME:
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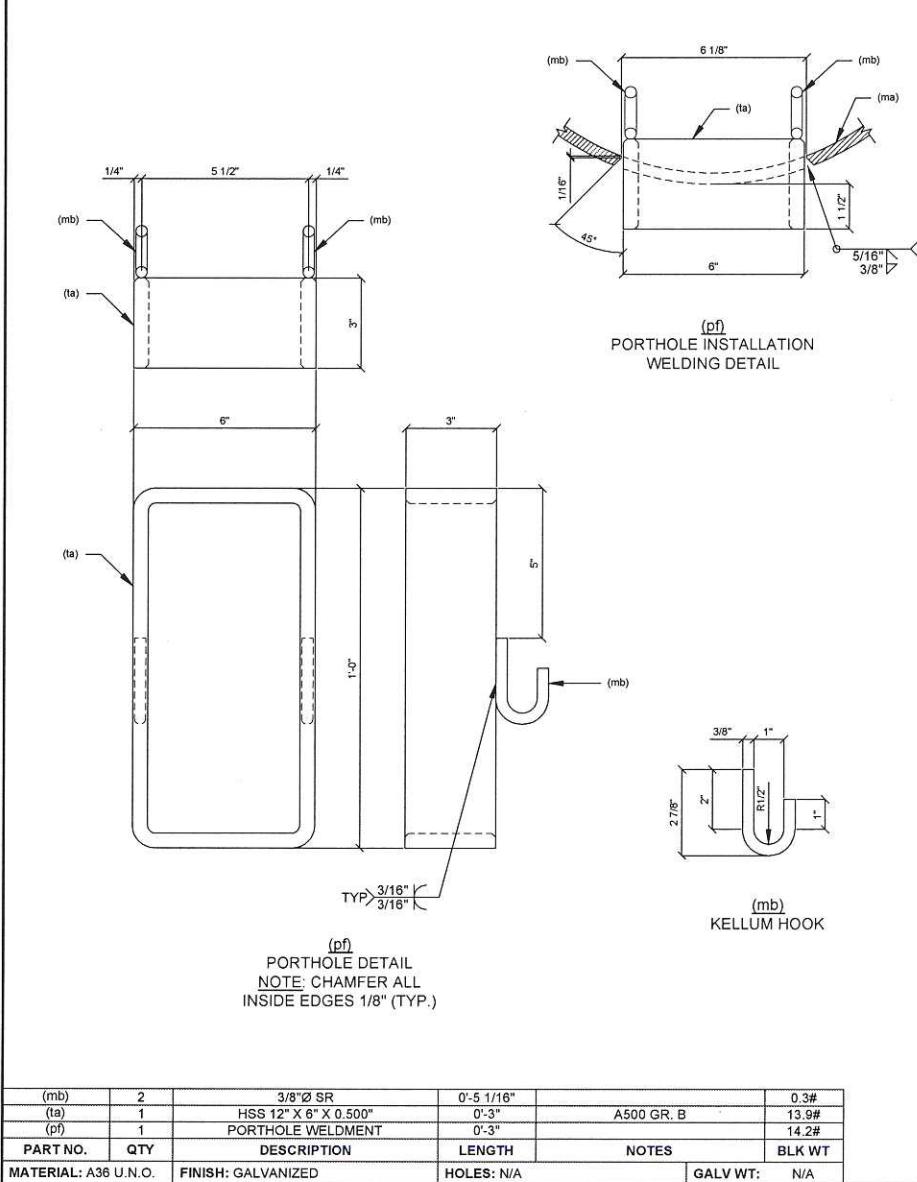
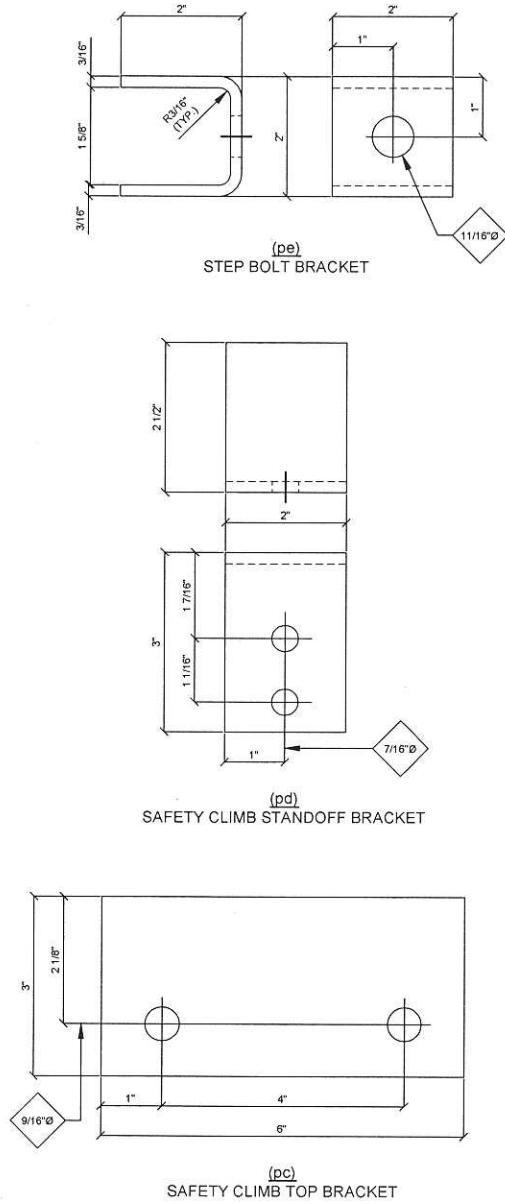
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DRAWN BY:	BJK
APPROVED BY:	TJG/AT
DATE DRAWN:	06/08/17
ATC JOB NO.:	OAA698250_C6_03

MONOPOLE EXTENSION WELDMENT FABRICATION DETAILS

SHEET NUMBER:	REVISION:
F-1	0



(mb)	2	3/8"Ø SR	0'-5 1/16"		0.3#
(ta)	1	HSS 12" X 6" X 0.500"	0'-3"	A500 GR. B	13.9#
(pf)	1	PORHOLE WELDMENT	0'-3"		14.2#
PART NO.	QTY	DESCRIPTION	LENGTH	NOTES	BLK WT
MATERIAL: A36 U.N.O.		FINISH: GALVANIZED	HOLES: N/A	GALV WT:	N/A

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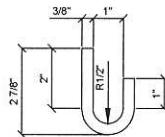
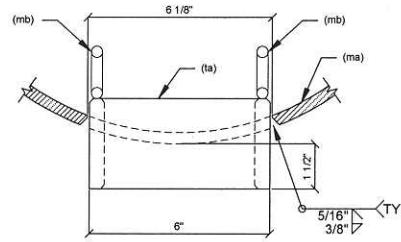
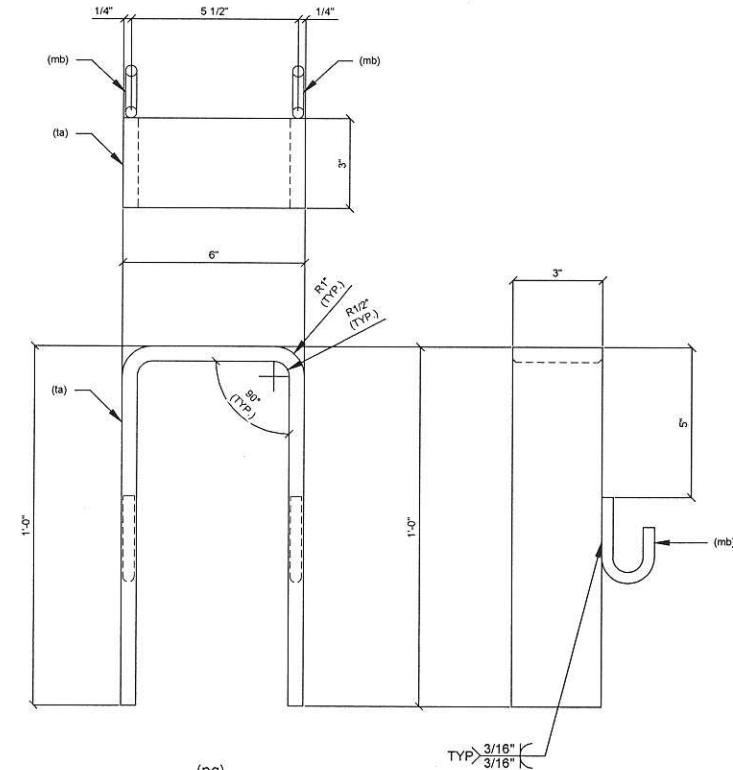
ATC SITE NAME:
NAUGATUCK (TELEPHONE POLE)
CONNECTICUT

SITE ADDRESS:
585 SOUTH MAIN ST. (SOC. CLUB)
NAUGATUCK, CT 06770

DRAWN BY: BJK
APPROVED BY: T.J.G/AT
DATE DRAWN: 06/08/17
ATC JOB NO: OAA696250_C6_03

MONOPOLE EXTENSION
WELDMENT FABRICATION
DETAILS (CONT'D)

SHEET NUMBER:	REVISION:
F-1A	0



(mb)	2	3/8"Ø SR PL 1/2" X 3"	0'-5 1/16" 2'-4 3/8"	0.3# 12.1#
(ta)	1	MOUSEHOLE WELDMENT	0'-3"	12.4#
PART NO.	QTY	DESCRIPTION	LENGTH	NOTES
MATERIAL: A36		FINISH: GALVANIZED	HOLES: N/A	GALV WT: N/A



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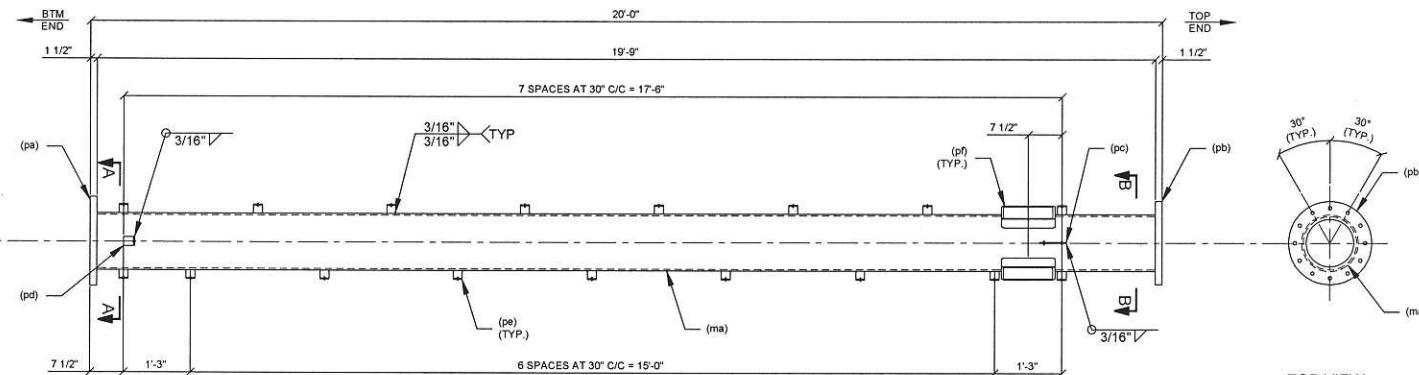
REV.	DESCRIPTION	BY	DATE
△	FIRST ISSUE	BJK	06/08/17
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ATC SITE NUMBER:
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NAUGATUCK (TELEPHONE POLE)
CONNECTICUT
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585 SOUTH MAIN ST. (SOC. CLUB)
NAUGATUCK, CT 06770

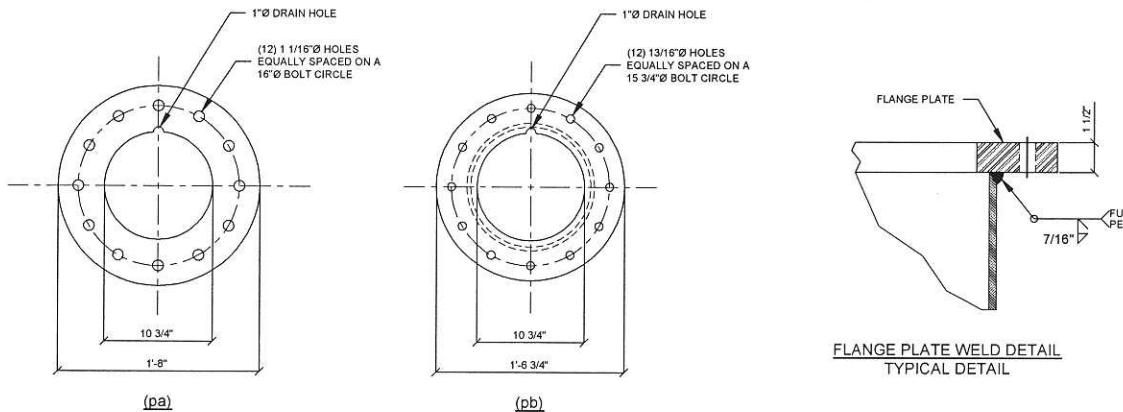
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ATC JOB NO: OAA698250_C6_03

MONOPOLE EXTENSION
WELDMENT FABRICATION
DETAILS (CONT'D)

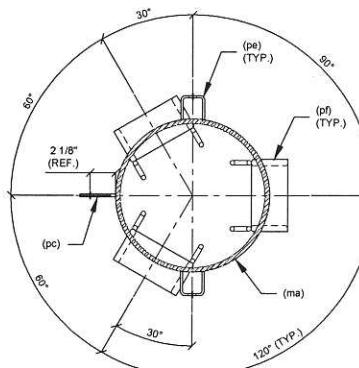
SHEET NUMBER: F-1B
REVISION: 0



302526-2
12.75" OD PIPE EXTENSION WELDMENT



FLANGE PLATE WELD DETAIL
TYPICAL DETAIL



SECTION "B-B"

(pf)	3	PART HOLE WELDMENT	0'-3"		F-1A	42.6#
(pe)	17	STEP BOLT BRACKET	0'-2"		F-1A	10.2#
(pd)	1	L 3" X 2 1/2" X 1/4"	0'-2"		F-1A	0.8#
(pc)	1	PL 1/4" X 3"	0'-6"		F-1A	1.3#
(pb)	1	PL 1 1/2" X 18 3/4"	1'-6 3/4"	A 572 GR. 50 / ROUND	F-2	78.7#
(pa)	1	PL 1 1/2" X 20"	1'-8"	A 572 GR. 50 / ROUND	F-2	94.9#
(ma)	1	12.75" OD X 0.375" PIPE	19'-9"	A53 GR. B / SC2E	F-2	978.8#
302526-2	1	12.75" OD PIPE EXTENSION WELDMENT	20'-0"		F-2	1207.2#
PART NO.	QTY	DESCRIPTION	LENGTH	NOTES	SHEET	BLK WT
MATERIAL: A36 U.N.O.		FINISH: GALVANIZED	HOLES: AS NOTED		GALV WT:	1267.6#



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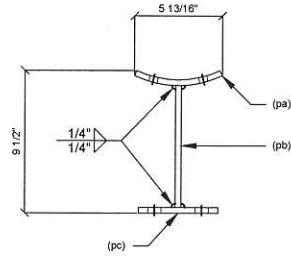
REV.	DESCRIPTION	BY	DATE
▲	FIRST ISSUE	BJK	06/08/17
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ATC SITE NUMBER:
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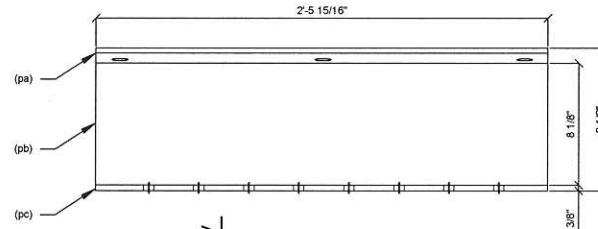
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DATE DRAWN:	06/08/17
ATC JOB NO:	OAA696250_C6_03

MONOPOLE EXTENSION
WELDMENT
FABRICATION DETAILS

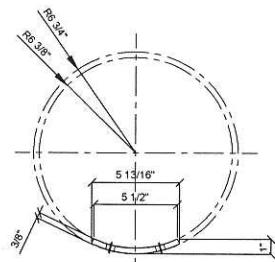
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F-2	0



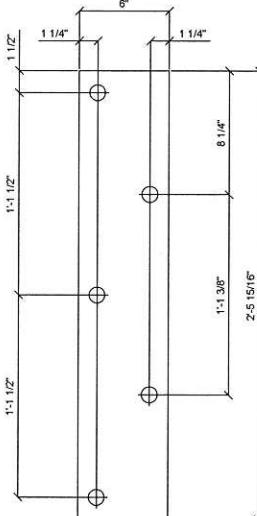
SECTION "A-A"
TYPICAL DETAIL



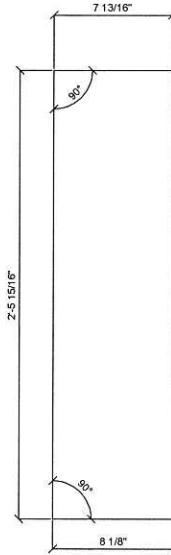
302526-3
TERMINATION BRACKET WELDMENT



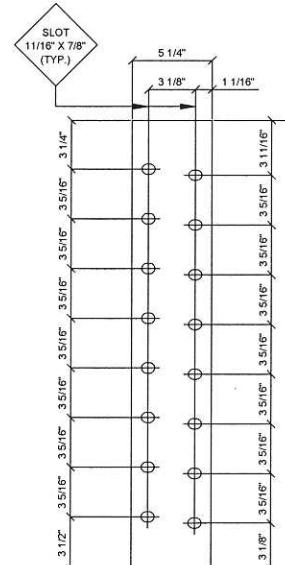
(pa)
INNER FLANGE VIEW
[ROLLED VIEW]



(pa)
INNER FLANGE VIEW
[FLAT PLAN VIEW]



(pb)
OUTER FLANGE VIEW



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REV. DESCRIPTION BY DATE
△ FIRST ISSUE BJK 06/08/17

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ATC SITE NUMBER:
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ATC SITE NAME:
NAUGATUCK (TELEPHONE POLE)
CONNECTICUT

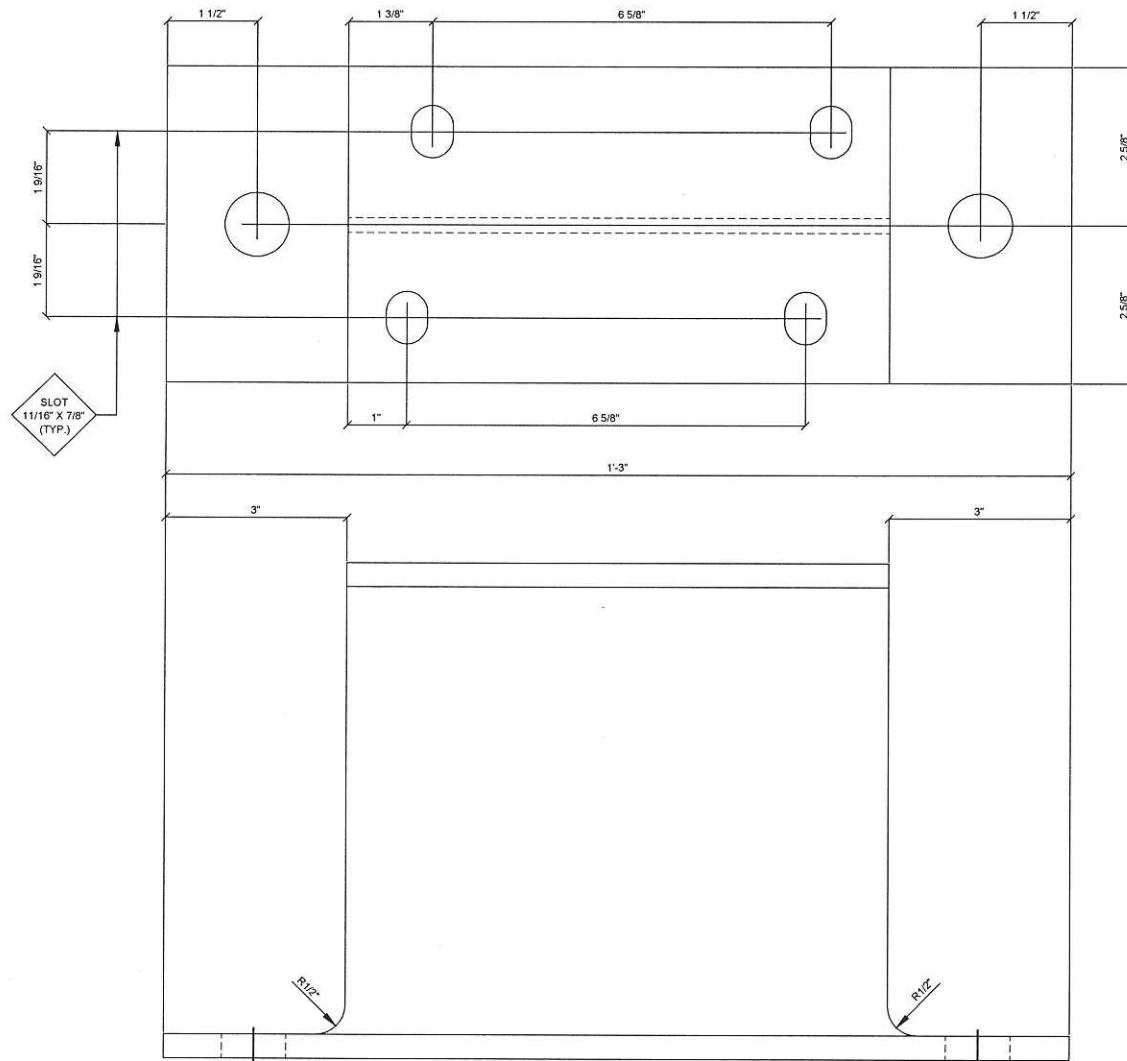
SITE ADDRESS:
585 SOUTH MAIN ST. (SOC. CLUB)
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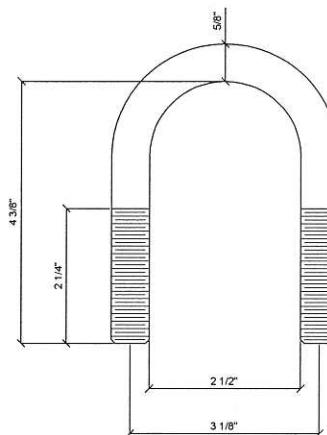
TERMINATION BRACKET
WELDMENT FABRICATION
DETAILS

SHEET NUMBER: F-3
REVISION: 0

(pc)	1	PL 3/8" X 5 1/4"	2'-5 15/16"	16.7#
(pb)	1	PL 3/8" X 8 1/8"	2'-5 15/16"	SHAPE 25.4#
(pa)	1	PL 3/8" X 6"	2'-5 15/16"	19.1#
302526-3	1	TERMINATION BRACKET WELDMENT	2'-5 15/16"	44.5#
PART NO.	QTY	DESCRIPTION	LENGTH	NOTES
MATERIAL: A36		FINISH: GALVANIZED	HOLES: 1 1/16"Ø U.N.O.	BLK WT: 46.7#



W821-20	W8X21	1-3"	26.3#	27.6#	
PART NO.	DESCRIPTION	LENGTH	NOTES	BLK WT	GALV WT
MATERIAL: A36	FINISH: GALVANIZED		HOLES: 1 1/16"Ø U.N.O.		



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NAUGATUCK, CT 06770

DRAWN BY:	BJK
APPROVED BY:	TJG/AT
DATE DRAWN:	06/08/17
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#20 BAR BRACKET
[W8X21 T-BRACKET]

SHEET NUMBER:	REVISION:
W821-20	0



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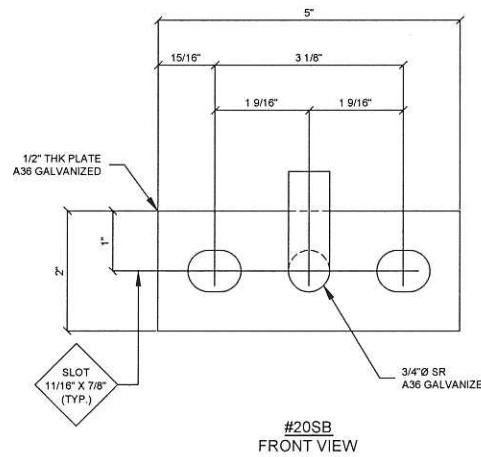
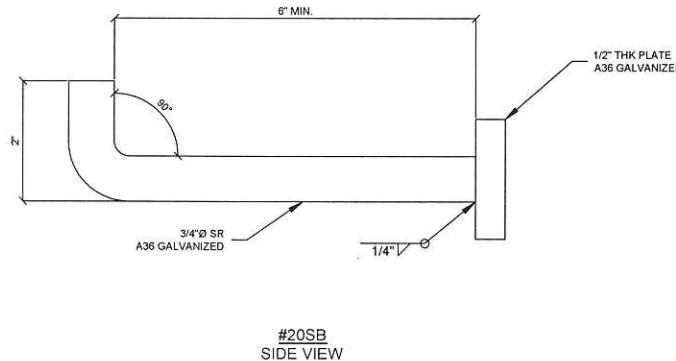
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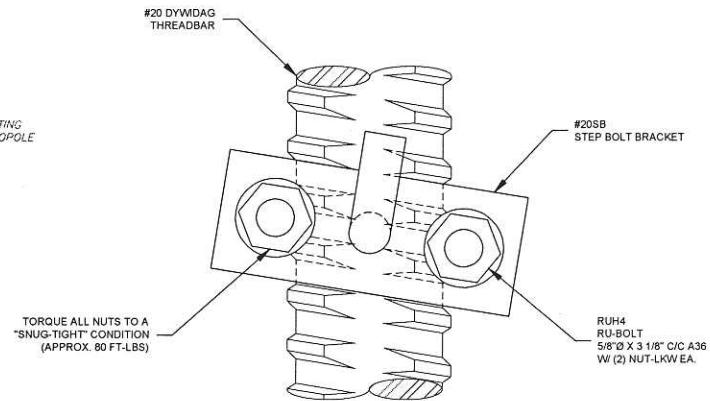
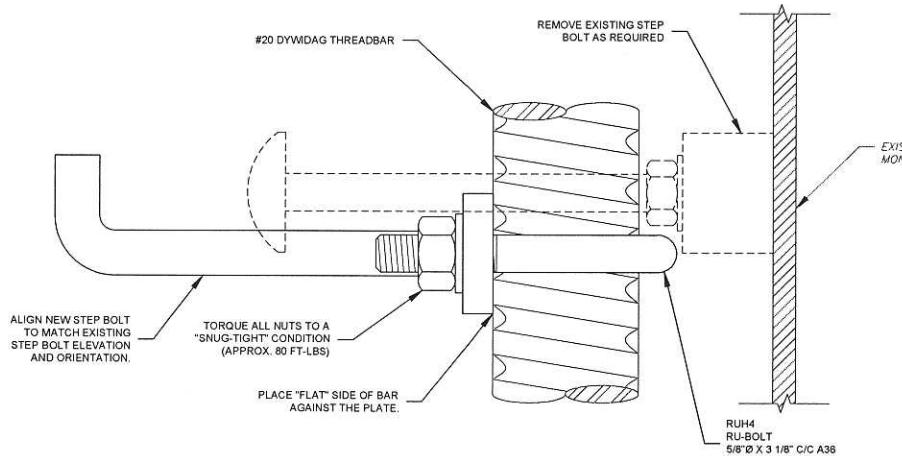
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#20 STEP BOLT BRACKET
FABRICATION AND
INSTALLATION DETAILS

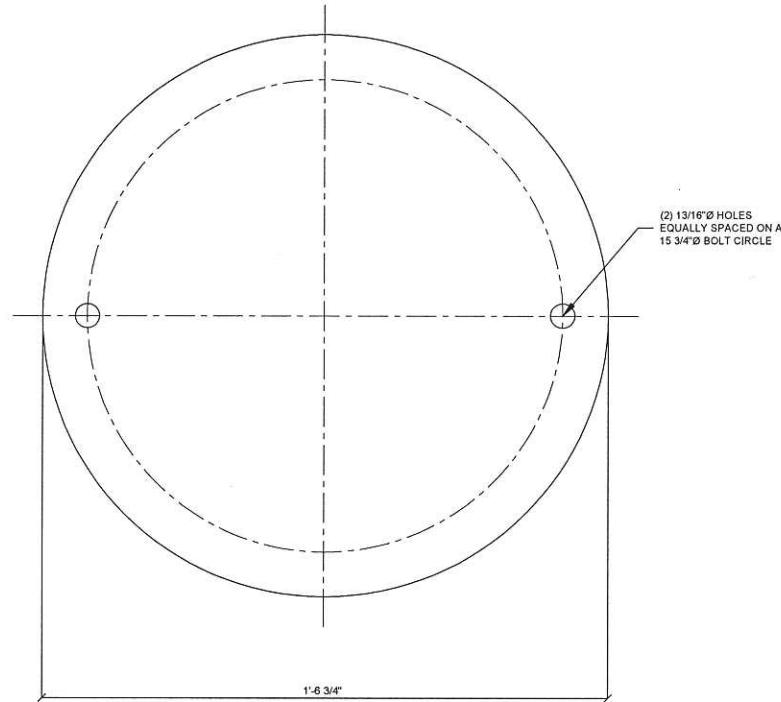
SHEET NUMBER: **#20SB** REVISION: **0**



NOTE
STEP PEG SPACING IS NOT TO EXCEED 16" MAX. STAGGERED OR 30" MAX. ON
ANY SINGLE SIDE OF THE DYWIDAG BAR.



RUH4
RU-BOLT
5/8" Ø X 3 1/8" C/C A36
W/ (2) NUT-LKWEA.



CP1575BC	PL 1/8" X 18 3/4"	1'6 3/4"	ROUND	9.8#	10.3#
PART NO.	DESCRIPTION	LENGTH	NOTES	BLK WT	GALV WT
MATERIAL: A36	FINISH: GALVANIZED		HOLES: AS NOTED		



AMERICAN TOWER®
ATC TOWER SERVICES
3600 REGENCY PARKWAY
SUITE 100
CARY, NC 27519
PHONE: (919) 468-4112
COA: 8260F

These drawings and/or the accompanying specification as instruments or service are the exclusive property of American Tower. Their use and publication shall be restricted to the project for which they are prepared. Any use or disclosure other than that for which relates to American Tower or the specified carrier is strictly prohibited. These drawings and/or the accompanying specification shall remain the property of American Tower whether or not the project is executed. Neither the architect nor the engineer shall be relieved of responsibility for a construction review of this project. Contractor(s) must verify all dimensions and advise American Tower of any discrepancies. Any prior issuance of this drawing is superseded by the latest version on file with American Tower.

REV.	DESCRIPTION	BY	DATE
1	FIRST ISSUE	BJK	06/08/17
2			
3			
4			

ATC SITE NUMBER:
302526

ATC SITE NAME:
NAUGATUCK (TELEPHONE POLE)
CONNECTICUT
SITE ADDRESS:
585 SOUTH MAIN ST. (SOC. CLUB)
NAUGATUCK, CT 06770

DRAWN BY:	BJK
APPROVED BY:	TJG/AT
DATE DRAWN:	06/08/17
ATC JOB NO:	0AA696250_C6_03

**CAP PLATE
FABRICATION DETAILS**

SHEET NUMBER:	REVISION:
CP1575BC	0



STATE OF CONNECTICUT
CONNECTICUT HISTORICAL COMMISSION

March 1, 1999

Ms. Lina I. Tonkunas
EnviroBusiness Inc.
701 Concord Avenue
Cambridge, MA 02138

Subject: SNET Cellular Sites
State of Connecticut

Dear Ms. Tonkunas:

The State Historic Preservation Office has reviewed the above-named projects. This office expects that the proposed undertakings will have no effect on historic, architectural, or archaeological resources listed on or eligible for the National Register of Historic Places. This comment includes the following SNET facilities:

<u>Site No.</u>	<u>Town</u>	<u>Street Address</u>
101	Greenwich	1081 North Street
104	Darien	50 Ledge Road
105	Fairfield	281 Woodhouse Road
106	Bridgeport	2 Kaechele Place
107	Westport	180A Bayberry Lane
108	Norwalk	613 Connecticut Avenue
109	Stamford	1590 Newfield Avenue
110	New Canaan	135 Main Street
112	Stratford	623 Honeyspot Road
116	Trumbull	Hawley Lane
120	Fairfield	55 Walls Drive
123	Ridgefield	10 Catoonah Street
124	Danbury	39 West Street
125	Newtown	6 Fairfield Drive
127	Newtown	Route 34
130	Greenwich	363 Riversville Road
131	Greenwich	411 West Putnam Avenue
135	Stamford	Catoonah Lane
142	Wilton	128 Mathers Street
143	Wilton	46 Fenwood Lane
151	Norwalk	177 West Rocks Road
152	Redding	Old Redding Road
157	Danbury	50 Newtown Road
176	Bridgeport	430 John Street
115	Bridgeport	25 Van Zant Street

TEL: (860) 566-3005 e-mail: cthist@neca.com FAX: (860) 566-5078

59 SOUTH PROSPECT ST. - HARTFORD, CONN 06106 - 1901

AN EQUAL OPPORTUNITY EMPLOYER

SNET Cellular Sites
State of Connecticut
Page 2

<u>Site No.</u>	<u>Town</u>	<u>Street Address</u>
117	Bridgeport	914 Artic Street
134	Fairfield	81 Black Rock
122	Norwalk	50 Rockland Road
136	Fairfield	2150 Black Rock Turnpike
137	Fairfield	2150 Post Road
6	Norfolk	452 Loon Meadow Road
7	Salisbury	497 Lime Rock Road Race Track
25	Cornwall	36 Mohawk Mountain
57	Harwinton	159 Weingart Road
71	Winchester	15 Oakdale Avenue
155	New Milford	4 Elkington Farm Road
128	Waterbury	Robbins Street
159	Orange	Ogg Meadow Road
174	Orange	525 Orange Center Road
5	Waterbury	Farmdale Drive
10	Woodbridge	77 Pease Road
12	North Haven	12 Dwight Street
15	Branford	405 Brushy Plain Road
17	Guilford	119 Tanner Marsh Road
18	Guilford	500 Cooks Lane
30	Guilford	154 Manor Road
33	Madison	864 Opening Hill Road
35	Hamden	975 Mix Avenue
60	Wolcott	347 East Street
64	West Haven	1 Burwell Street
111	Milford	438 Bridgeport Avenue
114	Oxford	59 Shelton Road
126	Southbury	Horse Fence Hill Road
156	Milford	423A Oronoque Road
160	Hamden	New Road-Quinnipiac College
161	Beacon Falls	664 Rimmon Hill Road
162	Bethany	719 Amity Road
166	Naugatuck	585 South Main Street
168	Wallingford	23 Wayne Road
169	Milford	203 Research Drive (Woodmont)
170	Branford	1 Quarry Road
172	New Haven	159 Middletown Avenue
175	Branford	4 Beaver Road

SNET Cellular Sites
State of Connecticut
Page 3

<u>Site No.</u>	<u>Town</u>	<u>Street Address</u>
178	Madison	8 Old Route 79
171	Montville	57 Cook Road (Uncasville)
22	East Lyme	2 Scott Road
23	Waterford	15 Miner Lane
27	North Stonington	2 Wintechog Hill Road
28	Norwich	225 Rogers Road
54	Stonington	40 Taugwank Road
65	Lebanon	244 Gates Road
167	North Stonington	273 Boom Bridge Road
177	Stonington	7 Broadway Avenue Extension (Mystic)
197	Old Lyme	132A Whippoorwill Road
51	Plainfield	45 Spaulding Road
75	Brooklyn	Tatnic Hill Road
139	Brooklyn	50 Tiffany Road

This office appreciates the opportunity to have reviewed and commented upon the proposed undertakings.

We recommend that the responsible agency provide concerned citizens with the opportunity to review and comment upon the proposed undertakings in accordance with the National Historic Preservation Act of 1966 and the Connecticut Environmental Policy Act.

For further information please contact Dr. David A. Poirier, Staff Archaeologist.

Sincerely,



Dawn Maddox
Deputy State Historic
Preservation Officer



Compliance Statement:

**Nationwide Programmatic Agreement for the Collocation of Wireless Antennas and Nationwide
Programmatic Agreement for Review of Effects on Historic Properties for Certain Undertakings
Approved by the Federal Communication Commission**

May 14, 2012

AT&T Mobility

Attn: AT&T Mobility

[DETERMINATION: TOWERS CONSTRUCTED BEFORE 3/16/01]

Re: Proposed collocation or modification of telecommunications equipment by **AT&T Mobility**, or its agents or designees ("Customer") on the certain towers, known as:

Site #	Site Name	Build date
305017	Westfield MA	9/24/1993
305018	Amherst - Ma	8/13/1998
9242	East Chicopee	4/20/1998
302467	Bilkays Express	3/22/1999
9238	Warren MA	7/24/1997
91888	Peterson Road	3/3/1998
15782	Granby MA	3/6/2001
9229	Ludlow MA	2/15/2000
10344	East Longmeadow	12/1/1999
302473	E H F R - Prestige Park	4/20/1983
302475	Sttn - Southington	10/20/1999
302476	Wtbr - Waterbury	11/7/1994
302479	Rkhl - Rocky Hill	11/12/1991
302483	Brln - Berlin	6/1/1984
302485	Mdfd - Middlefield	10/28/1983
302489	Enfd - Enfield	4/27/1999
302495	Tolland CT	3/2/1998
302509	Mdtw - Middletown Barn (tel Pole)	1/22/1999
302480	Woodbridge CT 1	7/1/1982
302482	North Haven CT 1	5/28/1984

302484	Branford CT 6	9/1/1984
302505	Wshn - West Haven	8/14/1981
302519	Southbury	3/12/1999
302526	Naugatuck (telephone Pole)	8/21/1995
10252	Charlton MA	12/27/2000
305010	Attleboro MA	6/7/2000
9241	Northampton	12/22/1997
9236	Hatfield South	1/1/1997
91554	Baker Tractor	2/4/1998
308761	Smithfield RI 6	6/16/1992
308763	Cranston North	12/30/1993
308768	East Providence	12/31/1997
6360	Pawtucket	5/1/1995
302474	South Windsor	2/29/1984
302500	Brst - Bristol	12/29/1993

Dear **AT&T Mobility:**

To facilitate Customer's collocation or modification of its telecommunications equipment on the above referenced Towers in compliance with both the Nationwide Programmatic Agreement for the Collocation of Wireless Antennas (the "Collocation Programmatic Agreement") and the Nationwide Programmatic Agreement for Review of Effects on Historic Properties for Certain Undertakings Approved by the Federal Communication Commission ("the Nationwide Programmatic Agreement") executed by the Federal Communication Commission ("FCC"), the National Conference of State Historic Preservation Officers and the Advisory Council On Historic Preservation ("ACHP"), American Tower Corporation ("ATC"), makes the following certifications:

1. The Towers are structures built for the primary purpose of supporting FCC-licensed antennas and their associated facilities.
2. Tower construction was completed on or before March 16, 2001, OR, if construction was not completed by that date, consultation with a SHPO/THPO has been completed pursuant to Section 106 of the National Historic Preservation Act ("NHPA"), and the SHPO/THPO has concurred that the undertaking will have "no effect" or "no adverse effect" to historic properties, OR, the towers were categorically exempt from SHPO review based on 47 CFR § 1.1306 Note 3 or one of the exemptions outlined in Section III of the Nationwide Programmatic Agreement.
3. There has been no "substantial increase in the size of the tower" since March 16, 2001, OR if there has been a "substantial increase", consultation with a SHPO/THPO has been completed pursuant to Section 106 of the NHPA and the Programmatic Agreements, and the SHPO/THPO has concurred that the undertaking will have "no effect" or "no adverse effect" to historic properties.
4. There has been no "enhancement of the tower" since March 7, 2005, OR if there has been an "enhancement", consultation with a SHPO/THPO has been completed pursuant to Section 106 of the NHPA and the Programmatic Agreements, and the SHPO/THPO has concurred that the undertaking will have "no effect" or "no adverse effect" to historic properties.
5. Based solely on ATC's review of the plans provided by Customer and statements made by Customer to ATC, the proposed collocations or modifications do not require a "substantial increase in the size of

the tower," as that phrase is defined in Stipulation I.C. of the Collocation Programmatic Agreement, nor do they require "enhancement of the tower" as that phrase is defined in Stipulation III.A. of the Nationwide Programmatic Agreement; OR, if the proposed collocations or modifications do require a "substantial increase" or "enhancement," ATC has completed consultation with a SHPO/THPO pursuant to Section 106 of the NHPA and the Programmatic Agreements. ATC has confirmed the SHPO/THPO has concurred that the undertaking will have "no effect" or "no adverse effect" to historic properties.

6. ATC has no knowledge that the FCC has determined that the Towers have an effect on one or more historic properties, or if such an effect has been found, that such effect has been found to be not adverse through a no adverse effect finding, or that an adverse or potentially adverse effect has not been resolved through a conditional no adverse effect determination, a Memorandum of Agreement, a programmatic agreement, or that the Towers are not otherwise in compliance with Section 106 and Subpart B of 36 CFR Part 800.
7. ATC has no knowledge that the Towers are the subject of a pending environmental review or related proceeding before the FCC involving compliance with Section 106 of the NHPA.
8. ATC has no knowledge of having received any written or electronic notification that the FCC is in receipt of a complaint from a member of the public, a SHPO, or the ACHP that the collocation has or will have an adverse effect on one or more historic properties.

Based on the above certifications, the installation of the equipment on the Towers would not require review under the consultation process set forth under Subpart B of 36 CFR Part 800.

Please contact ATC's Environmental Compliance Team at [colo.enviro@americantower.com] with any questions regarding this certification.

AMERICAN TOWER CORPORATION
10 Presidential Way
Woburn, MA 01801

By: Melanie Bender

Signed: 

Title: Environmental Compliance Coordinator

* Federal Airways & Airspace *
* Summary Report: Existing Structure *
* Antenna Structure *

Airspace User: Not Identified

File: 302526

Location: Naugatuck, CT

Latitude: 41°-28'-42.39" Longitude: 73°-2'-54.6"

SITE ELEVATION AMSL.....262 ft.
STRUCTURE HEIGHT.....98 ft.
OVERALL HEIGHT AMSL.....360 ft.

NOTICE CRITERIA

FAR 77.9(a): NNR (DNE 200 ft AGL)
FAR 77.9(b): NNR (DNE Notice Slope)
FAR 77.9(c): NNR (Not a Traverse Way)
FAR 77.9: NNR FAR 77.9 IFR Straight-In Notice Criteria for OXC
FAR 77.9: NNR FAR 77.9 IFR Straight-In Notice Criteria for N41
FAR 77.9(d): NNR (Off Airport Construction)

NR = Notice Required

NNR = Notice Not Required

PNR = Possible Notice Required (depends upon actual IFR procedure)

For new construction review Air Navigation Facilities at bottom
of this report.

The location and analysis were based upon an existing structure. However, no existing aeronautical study number was identified. If the 'existing' structure penetrates an obstruction surface defined by CFR 77.17, 77.19, 77.21 or 77.23 (see below) it is strongly recommended the FAA be notified of the 'existing' structure to determine obstruction marking or lighting requirements. It is not uncommon for the FAA to issue a Determination of No Hazard (DNH) for an existing structure and modify the airspace to accommodate the structure, should that be required. If the FAA issues a DNH enter the aeronautical study number (ASN) in the space provided on the Airspace Analysis Window Form and re-run Airspace.

The below analysis reflects the aeronautical conditions that exist as of the date stamped on this analysis.

Notice to the FAA is not required at the analyzed location and height for slope, height or Straight-In procedures. Please review the 'Air Navigation' section for notice requirements for offset IFR procedures and EMI.

OBSTRUCTION STANDARDS

FAR 77.17(a)(1): DNE 499 ft AGL

FAR 77.17(a)(2): DNE - Airport Surface
FAR 77.19(a): DNE - Horizontal Surface
FAR 77.19(b): DNE - Conical Surface
FAR 77.19(c): DNE - Primary Surface
FAR 77.19(d): DNE - Approach Surface
FAR 77.19(e): DNE - Transitional Surface

VFR TRAFFIC PATTERN AIRSPACE FOR: OXC: WATERBURY-OXFORD

Type: A RD: 23474.26 RE: 679.2

FAR 77.17(a)(1): DNE

FAR 77.17(a)(2): DNE - Height No Greater Than 200 feet AGL.

VFR Horizontal Surface: DNE

VFR Conical Surface: DNE

VFR Approach Slope: DNE

VFR Transitional Slope: DNE

VFR TRAFFIC PATTERN AIRSPACE FOR: N41: WATERBURY

Type: A RD: 55343.8 RE: 852

FAR 77.17(a)(1): DNE

FAR 77.17(a)(2): Does Not Apply.

VFR Horizontal Surface: DNE

VFR Conical Surface: DNE

VFR Approach Slope: DNE

VFR Transitional Slope: DNE

TERPS DEPARTURE PROCEDURE (FAA Order 8260.3, Volume 4)

FAR 77.17(a)(3) Departure Surface Criteria (40:1)

DNE Departure Surface

MINIMUM OBSTACLE CLEARANCE ALTITUDE (MOCA)

FAR 77.17(a)(4) MOCA Altitude Enroute Criteria

The Maximum Height Permitted is 1100 ft AMSL

PRIVATE LANDING FACILITIES

FACIL IDENT TYP NAME	BEARING To FACIL	RANGE IN NM	DELTA ELEVATION	ARP IFR
-------------------------	---------------------	----------------	--------------------	---------

5CT1 HEL RONDO 15.83 1.86 -170

No Impact to Private Landing Facility

Structure 0 ft below heliport.

1CT3 HEL ST MARY'S 6.14 4.52 +60

No Impact to Private Landing Facility

Structure is beyond notice limit by 22464 feet.

CT25 HEL MIRY DAM 324.7 5.79 -368

No Impact to Private Landing Facility

Structure 3 ft below heliport.

AIR NAVIGATION ELECTRONIC FACILITIES

FAC IDNT	ST TYPE	DIST AT FREQ	DELTA VECTOR (ft)	GRND ELEVA	APCH ST LOCATION	ANGLE BEAR
-------------	------------	-----------------	----------------------	---------------	---------------------	------------

OXC LOCALIZER I 109.5 278.09 24561 -358 CT RWY 36 WATERBURY- -.84 5

OXC ATCT	Y	A/G	271.25	24691	-392	CT OXFORD ATCT	-.91
JWE NDB	I	36	206.6	39158	-211	CT CLERA	-.31
HVN VOR/DME	R	109.8	150.4	90620	+354	CT NEW HAVEN	.22
MAD VOR/DME	R	110.4	121.64	114702	+140	CT MADISON	.07
BDR VOR/DME	R	108.8	190.19	117651	+351	CT BRIDGEPORT	.17
HFD VOR/DME	R	114.9	66.46	149399	-489	CT HARTFORD	-.19
CMK VOR/DME	I	116.6	243.52	163115	-334	NY CARMEL	-.12
PWL VOR/DME	I	114.3	305.3	184523	-890	NY PAWLING	-.28
BDL RADAR	ON	30.68	195191	+124	CT BRADLEY INTL	.04	
CCC VOR/DME	R	117.2	161.12	211443	+275	NY CALVERTON	.07
KOKX RADAR WXL	Y	167.24	229019	+165	NY NEW YORK	.04	
HPN RADAR	ON	2735.	230.9	235484	-150	NY WESTCHESTER COUNT	-.04
QVH RADAR ARSR	Y	1326.9	155.65	240086	+9	NY RIVERHEAD	0.00

CFR Title 47, §1.30000-§1.30004

AM STUDY NOT REQUIRED: Structure is not near a FCC licensed AM station.

Movement Method Proof as specified in §73.151(c) is not required.

Please review 'AM Station Report' for details.

Nearest AM Station: WFNW @ 3601 meters.

Airspace® Summary Version 17.1.429

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03-06-2017

08:59:37



Sanket Joshi
SAI Communications
27 Northwestern Drive, Second Floor
Salem, NH 03079
Sanket.Joshi@sai-comm.com

July 20, 2017

Connecticut Siting Council

Subject: AT&T Wireless, CT2166 – Naugatuck, CT

Dear Connecticut Siting Council:

At the request of AT&T Wireless, SAI Communications has performed an assessment of the RF Power Density at the proposed site located at 585 South Main Street, Naugatuck, CT.

Calculations were done in compliance with FCC OET Bulletin 65. This report provides an FCC compliance assessment based on a "worst-case" analysis that all transmitters are simultaneously operating at full power and pointing directly at the ground.

FCC OET Bulletin 65 formula:

$$S = \frac{2.56 * 1.64 * ERP}{4 * \pi * R^2}$$

Transmission Mode	Antenna Centerline AGL (ft)	Frequency (MHz)	Number of Channels	Effective Radiated Power per Channel (Watts)	Power Density (mW/cm ²)	Standard Limits (mW/cm ²)	% MPE (Uncontrolled/General Public)
AT&T UMTS	90	850	1	819	0.0364	0.5667	6.42%
AT&T LTE	90	700	1	1,109	0.0492	0.4667	10.55%
AT&T LTE	90	1900	1	2,904	0.1289	1	12.89%
AT&T LTE	90	2300	1	2,661	0.1181	1	11.81%
Other carriers per CSC records							41.98%
Total							83.65%

Conclusion: AT&T's proposed antenna installation along with other carriers is calculated to be within 83.65% of FCC Standard for General Public/Uncontrolled Maximum Permissible Exposure (MPE).

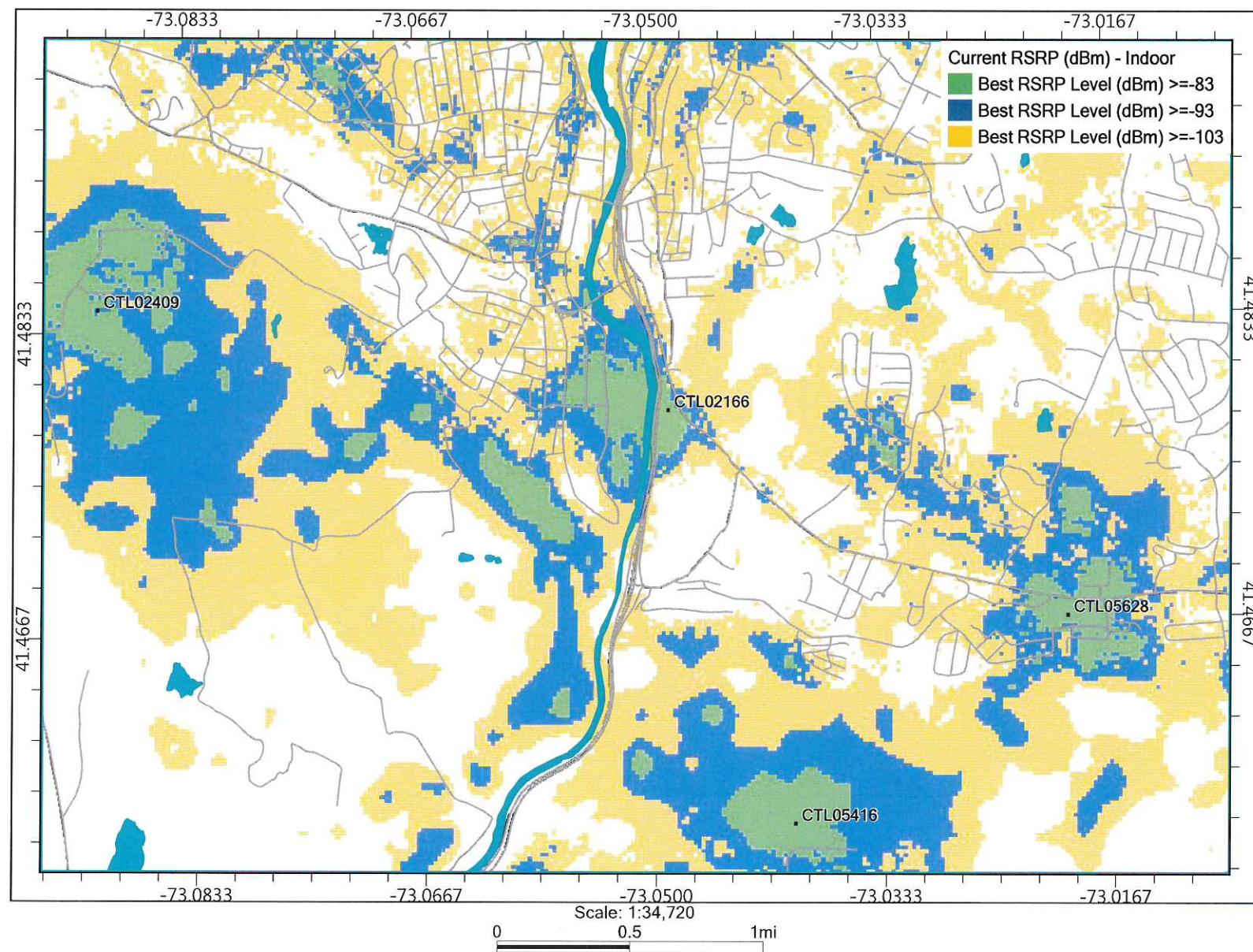
Sincerely,

Sanket Y Joshi
SAI Communications

Elevation ¹ (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
42.0	42.0	6	RFS FD9R6004/1C-3L	Low Profile Platform	(12) 7/8" Coax (2) 1 5/8" Hybriflex Cable	Verizon
		3	Alcatel-Lucent RRH2X60-1900			
		3	Alcatel-Lucent RRH2X60-AWS			
		3	Alcatel-Lucent RRH2x60 700			
		6	Decibel DB844H80E-XY			
		2	RFS DB-T1-6Z-8AB-0Z			
		6	Commscope SBNHH-1D65B			

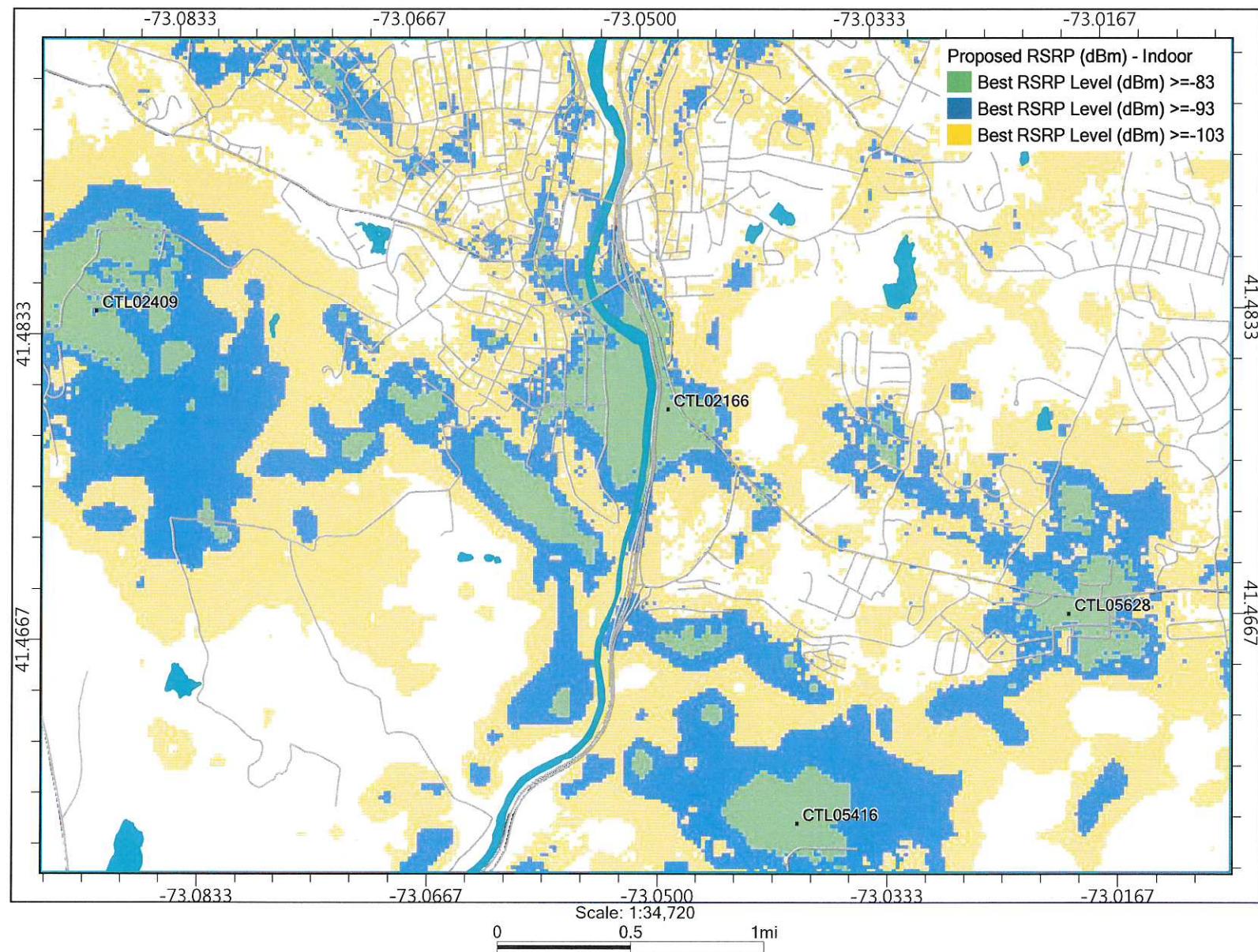


Current LTE Coverage





Proposed LTE Coverage



CERTIFICATION OF SERVICE

I hereby certify that on the 7th day of August 2017, a copy of the foregoing notice of the intended filing of a Petition with the Connecticut Siting Council for a declaratory ruling was sent by certified mail, return receipt requested, to the list below:

Dated:

8/7/17

Lain Chocik

Cuddy & Feder LLP

45 Hamilton Avenue, 14th Floor

White Plains, New York 10601

Attorneys for:

New Cingular Wireless PCS, LLC (AT&T)

State and Regional

The Honorable George Jepsen Attorney General Office of the Attorney General 55 Elm Street Hartford, CT 06106	Department of Economic and Community Development Catherine Smith, Commissioner 505 Hudson Street Hartford, CT 06106
Department of Public Health Dr. Raul Pino, Commissioner 410 Capitol Avenue P.O. Box 340308 Hartford, CT 06134	Department of Energy and Environmental Protection Public Utilities Regulatory Authority Chair Katie Dykes Ten Franklin Square New Britain, CT 06051
Council on Environmental Quality Karl J. Wagener, Executive Director 79 Elm Street Hartford, CT 06106	Department of Transportation James P. Redeker, Commissioner 2800 Berlin Turnpike Newington, CT 06111

<p>Department of Energy & Environmental Protection Rob Klee, Commissioner 79 Elm Street Hartford, CT 06106</p>	<p>Department of Agriculture Steven K. Reviczky, Commissioner 450 Columbus Boulevard, Suite 701 Hartford, CT 06103</p>
<p>Office of Policy and Management Benjamin Barnes, Secretary 450 Capitol Avenue Hartford, CT 06106</p>	<p>State House Representative-District 131 David K. Labriola Legislative Office Building 300 Capitol Avenue Room 4084 Hartford, CT 06106</p>
<p>Department of Emergency Services & Public Protection Division of Emergency Management and Homeland Security William J. Hackett, Deputy Commissioner 25 Sigourney Street, 6th Floor Hartford, CT 06106-5042</p>	<p>State Senator -17th District George S. Logan Legislative Office Building 300 Capitol Avenue Room 3400 Hartford, CT 06106</p>
<p>Department of Economic and Community Development-Offices of Culture and Tourism Todd Levine, State Historic Preservation Officer, Historian/Environmental Reviewer One Constitution Plaza, 2nd Floor Hartford, CT 06103</p>	<p>Naugatuck Valley Council of Governments Rick Dunne, Executive Director 49 Leavenworth Street, Suite 303 Waterbury, CT 06702</p>

Federal

Federal Communications Commission 445 12 th Street SW Washington, D.C. 20554	Federal Aviation Administration 800 Independence Avenue, SW Washington, DC 20591
U.S. Congresswoman Rosa L. DeLauro 59 Elm Street New Haven, CT 06510	U.S. Senator Richard Blumenthal 90 State House Square, 10th Floor Hartford, CT 06103
U.S. Senator Christopher Murphy Colt Gateway 120 Huyslope Avenue Suite 401 Hartford, CT 06106	

Borough of Naugatuck

N. Warren "Pete" Hess III, Mayor Town Hall 229 Church Street Naugatuck, CT 06770	Planning Commission Town Hall 229 Church Street Naugatuck, CT 06770
Zoning Commission Town Hall 229 Church Street Naugatuck, CT 06770	Inland Wetlands Commission Town Hall 229 Church Street Naugatuck, CT 06770
Sue Goggin - Town Planner/ ZEO/ WEO Town Hall 229 Church Street Naugatuck, CT 06770	Conservation Commission Town Hall 229 Church Street Naugatuck, CT 06770

NOTICE

Notice is hereby given, pursuant to Section 16-50j-40(a) of the Regulations of Connecticut State Agencies of a Petition being filed with the Connecticut Siting Council (“Siting Council”) on or after August 9, 2017 by New Cingular Wireless PCS, LLC (“AT&T”). AT&T seeks a declaratory ruling that modification of an existing wireless facility does not have significant adverse environmental effects that might otherwise require a certificate of environmental compatibility and public need (“Certificate”).

AT&T currently operates a wireless facility on an existing 49-foot tall monopole located at 585 South Main Street in Naugatuck that is owned by American Tower Corporation. AT&T’s facility includes six AT&T antennas on the monopole with associated equipment used to operate the antennas at the base of the monopole. In order to upgrade its existing facility, AT&T proposes to add a 40-foot tall monopole extension to the top of the existing monopole, increasing the height to a total of 89 feet. AT&T proposes to relocate its existing 6 antennas to the top of the proposed monopole extension.

The Petition will provide additional details of the proposal and explain why AT&T submits that this modification presents no significant adverse environmental effects. The location, height and other features of the facility are subject to review and potential change under provisions Connecticut General Statutes Sections 16-50g et. seq.

Copies of the Petition will be available for review during normal business hours on or after August 9, 2017 at the following:

Connecticut Siting Council
10 Franklin Square
New Britain, Connecticut 06051

Borough Clerk of Naugatuck
Nancy K. DiMeo
229 Church Street
Naugatuck, CT 06770

or the offices of the undersigned. All inquiries should be addressed to the Connecticut Siting Council or to the undersigned.

Lucia Chiocchio, Esq.
Cuddy & Feder LLP
445 Hamilton Ave, 14th Floor
White Plains, New York 10601
(914) 761-1300
Attorneys for the Petitioner

CERTIFICATION OF SERVICE

I hereby certify that on the 7th day of August 2017, a copy of the following letter and notice of the intended filing of a Petition with the Connecticut Siting Council for a declaratory ruling was sent by certified mail, return receipt requested, to the attached list of abutting property owners:

Dated:

8/7/17

John Cuccia

Cuddy & Feder LLP

45 Hamilton Avenue, 14th Floor

White Plains, New York 10601

Attorneys for:

New Cingular Wireless PCS, LLC (AT&T)

August 7, 2017

VIA CERTIFIED MAIL/
RETURN RECEIPT REQUESTED

Re: New Cingular Wireless PCS, LLC (“AT&T”)
Modifications to an Existing Wireless Facility
585 South Main Street, Naugatuck, Connecticut

Dear Sir or Madam:

We are writing to you on behalf of our client New Cingular Wireless PCS, LLC (“AT&T”) with respect to the above referenced matter and our client’s intent to file a petition for a declaratory ruling with the State of Connecticut Siting Council for approval of a modification to the existing wireless communications tower facility (the “Facility”) owned by American Tower Corporation on the above-captioned property.

State law requires that record owners of property abutting a parcel on which a facility is proposed be sent notice of an applicant’s intent to file a petition with the Siting Council.

Included with this letter please find a Notice of this submission with information about the proposal. Of note, the location, height and other features of the Facility are subject to review and potential change by the Connecticut Siting Council under the provisions of Connecticut General Statutes §16-50g *et seq.*

If you have any questions concerning this petition, please contact the Connecticut Siting Council or the undersigned after August 9, 2017, the date that the petition is expected to be on file.

Very truly yours,

Lucia Chiocchio
Enclosure

NOTICE

Notice is hereby given, pursuant to Section 16-50j-40(a) of the Regulations of Connecticut State Agencies of a Petition being filed with the Connecticut Siting Council (“Siting Council”) on or after August 9, 2017 by New Cingular Wireless PCS, LLC (“AT&T”). AT&T seeks a declaratory ruling that modification of an existing wireless facility does not have significant adverse environmental effects that might otherwise require a certificate of environmental compatibility and public need (“Certificate”).

AT&T currently operates a wireless facility on an existing 49-foot tall monopole located at 585 South Main Street in Naugatuck that is owned by American Tower Corporation. AT&T’s facility includes six AT&T antennas on the monopole with associated equipment used to operate the antennas at the base of the monopole. In order to upgrade its existing facility, AT&T proposes to add a 40-foot tall monopole extension to the top of the existing monopole, increasing the height to a total of 89 feet. AT&T proposes to relocate its existing 6 antennas to the top of the proposed monopole extension.

The Petition will provide additional details of the proposal and explain why AT&T submits that this modification presents no significant adverse environmental effects. The location, height and other features of the facility are subject to review and potential change under provisions Connecticut General Statutes Sections 16-50g et. seq.

Copies of the Petition will be available for review during normal business hours on or after August 9, 2017 at the following:

Connecticut Siting Council
10 Franklin Square
New Britain, Connecticut 06051

Borough Clerk of Naugatuck
Nancy K. DiMeo
229 Church Street
Naugatuck, CT 06770

or the offices of the undersigned. All inquiries should be addressed to the Connecticut Siting Council or to the undersigned.

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(914) 761-1300
Attorneys for the Petitioner

APPROXIMATE TRUE NORTH
N

ROUTE 8

0 Riverside Drive
MBL: 26-35E39

575 South Main Street
MBL: 26-35E37

SUBJECT PROPERTY:
585 SOUTH MAIN STREET
MBL: 26-35E23

0 South Main Street
MBL: 26-5E1

NEW HAVEN RD / S MAIN ST (ROUTE 63)

0 Riverside Drive
MBL: 0-15E1

NOTES:

1. ABUTTERS LIST CONSISTS OF PARCELS PHYSICALLY TOUCHING THE SUBJECT PROPERTY OR ABUT ACROSS THE STREET FROM THE SUBJECT PROPERTY.
2. PERIMETER PLAN DATA & ABUTTERS INFORMATION WAS COMPILED FROM INFORMATION OBTAINED FROM THE BOROUGH OF NAUGATUCK'S GIS WEBSITE.

PERIMETER PLAN

SCALE: 1"=100' FOR 11"x17"
1"=50' FOR 22"x34"

1

0' 50' 100'

ABUTTERS LIST

MBL	ACCOUNT	PROPERTY LOCATION	OWNER	MAILING ADDRESS
0-15E1	075-0190	0 RIVERSIDE DRIVE	GROVE CEMETARY ASSOC	PO BOX 824, NAUGATUCK, CT 06770
26-35E39	074-9590	0 RIVERSIDE DRIVE	STATE OF CONNECTICUT	C/O LAND ACQUISITION DIVISION, HARTFORD, CT 06106
26-35E37	066-7210	575 SOUTH MAIN STREET	FRITCH SETH D	1 GLENWOOD AVENUE, NAUGATUCK, CT 06770
26-5E1	016-9651	0 SOUTH MAIN STREET	NOCERINO FAMILY LP	628 NEW HAVEN ROAD, STE 8, NAUGATUCK, CT 06770