

State of Connecticut



Department of Emergency Services and
Public Protection
Division of State Police
Bureau of Telecommunication, Records,
Research & Information Services
Connecticut Telecommunications System
Unit

Connecticut Siting Council

Petition for Declaratory Ruling

Petition No. _____

December 2014

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CONNECTICUT SITING COUNCIL

PETITION OF CONNECTICUT DEPARTMENT)
OF EMERGENCY SERVICES AND PUBLIC) PETITION NO. _____
PROTECTION TO THE CONNECTICUT SITING)
COUNCIL FOR A DECLARATORY RULING)
THAT NO CERTIFICATE OF ENVIRONMENTAL)
COMPATIBILITY AND PUBLIC NEED IS)
REQUIRED TO REPLACE AND EXPAND AN)
EXISTING MONOPOLE TOWER WITH A)
LATTICE TOWER AT 194 MT. PARNASSUS)
ROAD, EAST HADDAM, CONNECTICUT)

**PETITION FOR DECLARATORY RULING
FOR THE REPLACEMENT AND EXPANSION OF
AN EXISTING MONOPOLE TOWER WITH
A LATTICE TOWER AT MOUNT PARNASSUS ROAD,
EAST HADDAM, CONNECTICUT**

I. INTRODUCTION

The Connecticut Department of Emergency Services and Public Protection, (hereafter “DESPP”), petitions the Connecticut Siting Council (the “Council”) pursuant to sections (§§) 16-50j-38 and 15-50j-39 of the Regulations of Connecticut State Agencies for a declaratory ruling that a Certificate of Environmental Compatibility and Public Need (“Certificate”) is not required under the provisions of Connecticut General Statute §16-50k to replace an existing monopole with a lattice tower structure at the existing telecommunications facility located at 194 MT. Parnassus Road in East Haddam, Connecticut (the “Facility”). The replacement of the existing monopole with an equal height lattice tower is for the purpose of accommodating DESPP, Department of Transportation (the ‘DOT’) and Town of East Haddam, Connecticut’s (the “Town”) public safety telecommunications systems. The instant petition is exclusively for Town’s, DESPP’s and DOT’s benefits.

The Facility’s infrastructure and land is owned by the State of Connecticut and managed by DESPP via a Memorandum of Agreement dated August 20, 2010 between The Connecticut Department of Transportation and The Connecticut Department of Public Safety, now known as DESPP attached hereto and marked as Exhibit 1.

DESPP is working with the Town and DOT on upgrading all of their public safety telecommunications systems. In order to expand coverage, capability and enhance system performance of the DESPP 800/700- MHz Public Safety radio system in the East Haddam, Chester, Deep River, and Salem area of Connecticut, DESPP plans to modify the equipment configurations at the 194 Mt. Parnassus Road, East Haddam telecommunications site. This modified telecommunications site will also benefit the Town's radio capabilities with their installation on the new tower.

DESPP intends to replace an existing pre-1960's 120' monopole tower with a 120' lattice tower structurally capable of meeting Telecommunications Industry Association Standard TIA-222-G addendum 1, replace Department of Transportation ("DOT") antenna and install DESPP and Town antennas on the existing DESPP telecommunications facility at 194 Mt. Parnassus Road in East Haddam, Connecticut.

DESPP request the Council to waive it application fee pursuant to RCSA Section 16-50j-3 for DESPP's, DOT's and Town's public safety communications systems requirements.

DESPP respectfully submits that the proposed replacement of the Facility's tower structure will not present any significant adverse environmental impacts which would otherwise warrant review by the Council in a full docket and Certificate proceeding. As such, DESPP respectfully request a declaratory ruling from the Council that the redevelopment of the Facility for Town's, DESPP and DOT public safety systems, and exclusive benefit, does not require a Certificate.

II. EXISTING FACILITY

The Facility is located on a 8695 square foot parcel at 194 Mt. Parnassus Road, East Haddam, Connecticut shown on survey map dated 11/25/2014 by Milone & MacBroom (see Exhibit 2). Presently, the facility's existing monopole structure supports telecommunications equipment for DOT but will not structurally accommodate proposed Town's, DESPP's and DOT's public safety telecommunications systems. The existing monopole structure stands 120', the structure reaches 126' AGL with DOT's telecommunications equipment. For the purpose of demonstrating the monopole's inability to accommodate the Town's, DESPP's and DOT's proposed equipment, DESPP has provided pictures in Exhibit 3. The tower is clearly antiquated and will be removed as part of this project which is a safety and environmental benefit.

III. PROPOSED REDEVELOPMENT ACTIVITY

DESPP seeks to redevelop the Facility by replacing the 120' monopole with a 120' lattice tower and replacing the existing 80 square feet building with a new replacement shelter of 882 square feet to house Town, DESPP and DOT's telecommunications equipment (see Exhibit 2). DESPP has determined that the proposed lattice structure will, in addition to satisfying radio frequency requirements, be capable of supporting Town's, DESPP's and DOT's public safety equipment (see Exhibit 4).

Vehicular access to the facility will remain unchanged. Existing access to the Facility is made southerly from Mt. Parnassus Road, on a non-exclusive gravel easement across DOT right of way for approximately 70' to Facility. Likewise, the utility easement serving the Facility will also remain unchanged. Utilities will continue to follow the route of the non-exclusive gravel easement from Mt. Parnassus Road described immediately above (see Exhibit 2).

A. Commercial Carriers and Tenants

This redevelopment project is driven by the Town's, DESPP's and DOT's need to support critical public safety telecommunications equipment. New commercial carriers are not within the scope of this redevelopment activity or petition at this time but this facility will be open to the additions of commercial carriers wishing to utilize the sharing of telecommunications facilities as a means to improve their individual communications networks throughout the State of Connecticut and thus prevent the proliferation of telecommunications towers throughout the State.

IV. THE PROPOSED MODIFICATIONS WILL NOT HAVE

NO SUBSTANTIAL ADVERSE ENVIRONMENTAL EFFECT

A. Minimal Physical Impact: State Historic Presentation Office

A comparison of existing and proposed conditions reveals no substantial adverse environmental impacts associated with the proposed project. The proposed lattice tower will be located immediately next to the existing monopole, and not result in any additional uses or towers. The existing monopole will be disassembled immediately after the new lattice tower becomes fully functional. The project will require minimal earth modification and grading, and

to that extent, all construction will implement necessary storm water and erosion control measures established by the Connecticut Council of Soil and Water Conservation. Additionally, the State Historic Preservation Office has determined that the redevelopment of the Facility, as proposed, will result in no affect (see Exhibit 5).

B. Compliance with MPE Limits and Safety Recommendations

The total radio frequency power density at this site for occupational and general public groups will be in compliance with the Federal Communications Commission's (FCC) Rules and Regulations, and those standards adopted by the Connecticut Department of Energy and Environmental Protection as set forth in §22a-162 of the Connecticut General Statutes (see Exhibit 6). Furthermore, DESPP will ensure compliance with industry practices, FCC requirements, and Occupational Safety and Health Administration (OSHA) regulations, by installing RF alert signage and barriers, including locked gates.

C. Visibility

The proposed tower's height is the same as existing tower and will not have a significant impact on existing view sheds.

D. FAA Certification

DESPP's surveying contractor, Milone & MacBroom- has certified that the Facility's ground elevation is 593' above mean sea level (see Exhibit 2). The FAA has determined under Aeronautical Study No. 2014-ANE-1852-OE, the proposed tower is not a hazard for air navigation up to 126' AGL (see Exhibit 7). Under that determination, the FAA also determined that no marking or lighting is required for aviation safety.

E. Public Safety Need

DESPP, DOT and the Town have retained the experts at Motorola to design an equipment configuration that will adequately support each of their public safety services. Motorola has developed equipment configurations based on each of the Town's, DESPP's and DOT's current and future communications needs. Motorola's proposed configurations requires DESPP's, DOT's installations at 120' and the Town's installation at 100' (see Exhibit 7).

V. PUBLIC SAFETY CONSULTATION

This redevelopment activity is driven by Town's, DESPP's and DOT's need to upgrade its public safety telecommunications systems. DESPP submits with this petition a letter dated December 3, 2014 from East Haddam's First Selectmen Mark B. Walter demonstrating their support for this project, attached hereto as Exhibit 8.

VI. CONCLUSION

For the forgoing reasons, DESPP respectfully request that the Council determine that the 120' monopole, with no available capacity for DESPP's, DOT's, and the Town's public safety equipment, be replaced with a 120' lattice structure that can support the Town's, DESPP's and DOT's public safety telecommunications equipment and that such redevelopment does not require a Certificate of Environmental Compatibility and Public Need. DESPP also respectfully requests that the Council issue an order approving the same.

Respectfully submitted,



Brian Benito
Planning Specialist
Department of Emergency Services and Public Protection

EXHIBIT 1

MEMORANDUM OF AGREEMENT
Between
THE CONNECTICUT DEPARTMENT OF TRANSPORTATION
And
THE CONNECTICUT DEPARTMENT OF PUBLIC SAFETY,
DIVISION OF STATE POLICE
REGARDING TRANSFER OF MANAGEMENT
OF SITE AT MT. PARNASSUS ROAD, EAST HADDAM

This Memorandum of Agreement (AGREEMENT) is entered into by and between the State of Connecticut Department of Transportation (hereinafter referred to as "DOT"), acting herein by Jeffrey A. Parker, Commissioner, pursuant to Connecticut General Statutes Section 13b-4(8), and the State of Connecticut Department of Public Safety, Division of State Police (hereinafter referred to as "STATE POLICE"), acting herein by James M. Thomas, Commissioner, pursuant to Connecticut General Statutes Section 4-8.

WHEREAS, in this AGREEMENT, the terms MANAGE and MANAGEMENT refer to the rights and responsibilities of a party to operate, maintain, remove, replace, modify and allow or refuse others the use of the facilities or property under discussion, without hindrance from any other party, except as specified in this AGREEMENT, and

WHEREAS, DOT owns certain real property located at Mt. Parnassus Road in East Haddam, Connecticut, recorded on the land records for the Town of East Haddam as 2002 Map 39 – Lot 64, hereinafter referred to as the "SITE," which includes an existing radio tower and building as shown as "EXISTING TOWER and BUILDING TO BE REMOVED" on Attachment A entitled "CTS Project Mt. Parnassus Site Plan, Drawing Number 052-200, dated February 8, 2010 ("SITE PLAN"), and

WHEREAS, DOT wishes to transfer custody and control of the SITE to STATE POLICE pursuant to Connecticut General Statutes Section 13a-80, and STATE POLICE wishes to receive custody and control of the SITE, and

WHEREAS, until DOT and STATE POLICE complete the transfer of custody and control of the SITE and obtain the required approvals of the instrument used to complete the transfer, STATE POLICE wishes to assume the MANAGEMENT of the SITE for the purpose of improving the telecommunications facilities on the SITE and incorporating the SITE into the Connecticut Telecommunications System (hereinafter referred to as "CTS"), and

WHEREAS, DOT is willing to transfer the MANAGEMENT of the SITE to STATE POLICE, and

WHEREAS, STATE POLICE and DOT wish to share telecommunications facilities on the SITE, as set forth in this AGREEMENT, as a means to efficiently expand and improve the radio communications capabilities of the State of Connecticut ("State"), efficiently use State resources, and prevent the proliferation of telecommunications towers in the State.

NOW, THEREFORE, in consideration of the mutual covenants, terms and conditions herein, the parties hereto agree as follows:

Memorandum of Agreement
Transfer of Management of Telecommunications Site

1. Management of the SITE
DOT hereby transfers the MANAGEMENT of the SITE to STATE POLICE for the purpose of constructing, installing, operating, and maintaining telecommunications facilities consisting of a radio tower, radio transmitting and receiving antennas, and any associated electronic equipment and infrastructure, hereinafter referred to collectively as the "FACILITIES." Additionally, as part of the MANAGEMENT responsibilities, STATE POLICE shall maintain the grounds, including but not limited to, fencing, generator and other equipment, and all structures or buildings on the SITE, at no expense to DOT.
2. Continued Use by DOT
At the time of transfer of MANAGEMENT of the SITE, DOT shall be allowed the continued use of the SITE at no cost to DOT, including use of the FACILITIES and agency room of the equipment shelter on the SITE for the operation and maintenance of DOT radio equipment. All operation and maintenance costs associated with the DOT radio equipment shall be the responsibility of the DOT.
3. Construction by STATE POLICE
STATE POLICE will remove the existing radio tower and building and construct a new CTS radio tower ("hereinafter referred to as the "NEW TOWER") and new equipment shelter, as shown on the SITE PLAN as "PROPOSED TOWER" and "PROPOSED BUILDING," respectively.
4. Installation by STATE POLICE
(A) STATE POLICE shall be responsible for providing and installing a new antenna system for the DOT radio equipment on the NEW TOWER, at no cost to DOT, in accordance with Attachment B entitled "CTS Project Mt. Parnassus Elevation and Antenna Locations, Drawing Number 052-515, dated March 23, 2010, and Attachment C entitled "Antenna Inventory." DOT shall be responsible for relocation and reinstallation of its radio equipment to the new equipment shelter's agency room (hereinafter referred to as the "NEW AGENCY ROOM") in accordance with Attachment B.
(B) In accordance with Attachments B and C, STATE POLICE shall install DOT's antenna at the 120' position on the NEW TOWER.
5. DOT Use of the CTS Microwave Network
STATE POLICE shall provide and maintain in good working order, at no expense to DOT, a microwave circuit allocated on the SITE for DOT. Maintenance, alarming, monitoring and coordination of the microwave circuit allocated for DOT will be provided by STATE POLICE and controlled by the CTS Network Control Center, at no cost to DOT, for the duration of the AGREEMENT.
6. Power
The STATE POLICE shall, at its expense, supply heat and air conditioning for the NEW AGENCY ROOM. Electric power for tower functions shall be made available by the STATE POLICE, at no expense to DOT, utilizing existing public utility service, and in case of power failure, by a generator. Each party shall be responsible for damages, direct or consequential, to its own equipment and/or system as a result of any electrical anomalies.

Memorandum of Agreement
Transfer of Management of Telecommunications Site

7. Equipment Installation, Maintenance, and Repair

After STATE POLICE install DOT equipment on the NEW TOWER, DOT shall thereafter be responsible, at its expense, for all maintenance, replacement or augmentation of its antenna and related equipment installed on the NEW TOWER and its radio equipment installed in the NEW AGENCY ROOM for the duration of the AGREEMENT. All installations performed by DOT shall be in accordance with the Site Installation and Appearance Standards set forth in Attachment D.

8. Interference

As of the commencement of this AGREEMENT, DOT and STATE POLICE are the only users of the FACILITIES on the SITE. With respect to third party users that STATE POLICE allows to use the FACILITIES, STATE POLICE, pursuant to its license agreement with any third party, shall require any third party user upon causing interference with DOT radio equipment to immediately work with DOT to resolve said interference to the mutual satisfaction of the parties, at the third party user's expense. STATE POLICE will provide DOT with the identity and contact information of any third party users. In the event that any third party user fails or refuses to meet its obligations to resolve such interference issues under any license agreement with the STATE POLICE pertaining to the FACILITIES, the STATE POLICE affirms to DOT that it shall take such action as is necessary to enforce such provisions of and pursue remedies available under the license agreement to the extent permitted by law. Should any interference caused by DOT to any current or future STATE POLICE radio equipment be immediately unresolvable, DOT shall cease operation of said radio equipment, except for testing purposes until said interference is eliminated to the satisfaction of the STATE POLICE. STATE POLICE acknowledges that the DOT radio system is essential for DOT operations and highway safety and shall cooperate with the DOT in both resolving any interference issues prior to resorting to cessation of operation of DOT radio equipment and, if unresolvable such that operation of DOT radio equipment must cease in the interim, then to the extent practicable in minimizing the period of time during which DOT radio operations are ceased. This Paragraph 8 controls and supersedes any contradictory language contained in section 3.1.3 of Attachment D.

9. Access to Towers for Changes/Additions

DOT agrees that it shall not add to, change, or modify its equipment installed on the NEW TOWER without first obtaining authorization to do so from the STATE POLICE, in writing. Before any work on the NEW TOWER is to be performed, no later than forty-eight (48) hours before arrival at the SITE, DOT must call, the STATE POLICE's Network Control Center (NCC) at (860) 685-8008 and provide the intent of the visit and the name, company, and title of the individual(s) who will be at the SITE to work on DOT equipment on the NEW TOWER.

10. Access to NEW AGENCY ROOM DOT, its contractors, agents, servants, and employees shall have the privilege of accessing the SITE and entering the NEW AGENCY ROOM for the purpose of installing, maintaining and repairing DOT's radio equipment twenty-four (24) hours per day, seven (7) days per week. The SITE shall be considered "restricted" and no party to this AGREEMENT shall provide or permit access to the SITE described herein for person(s) except as such person(s) is/are acting as contractors or agents for one or more of the parties hereto in the performance of their duties under this AGREEMENT. For the avoidance of any confusion, DOT's access to the AGENCY ROOM as set forth in this Paragraph 10 is not subject to the notice requirement set forth in Paragraph 9.

Memorandum of Agreement
Transfer of Management of Telecommunications Site

11. Notification

All notices hereunder must be in writing and shall be sent by certified mail, return receipt requested or email with confirmation of receipt, to the following (or to any other address that the party to be notified may have designated by like notices).

To: Department of Public Safety Division of State Police CTS Unit 1111 Country Club Road Middletown, CT 06457	To: Department of Transportation Bureau of Highway Operations 2800 Berlin Turnpike Newington, CT 06131-7546 Attn: Bureau Chief
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12. Term and Termination

(A) This AGREEMENT shall commence upon execution by both parties and shall remain in effect until the date that the transfer of custody and control is completed, including approval of the transfer instrument by the Office of Policy and Management (OPM), but no later than one (1) year from the date of execution by both parties ("Term") or unless terminated earlier by STATE POLICE with at least sixty (60) days written notice to DOT. If terminated, STATE POLICE shall remove its electronic equipment, antennas and transmission lines from the SITE, unless otherwise agreed by the parties.

(B) If the transfer of custody and control is not likely to be approved by OPM by the expiration of the Term, no later than thirty (30) days prior to the expiration of the Term, the parties will enter into a written amendment to the AGREEMENT mutually agreed upon and signed by the Commissioners of each DOT and STATE POLICE to extend the Term of the AGREEMENT for the purpose of either (i) allowing an additional one (1) year period of time for OPM approval of the transfer of custody and control, or (ii) allowing for continued MANAGEMENT of the SITE by the STATE POLICE on a longer-term basis to be mutually agreed to by the Commissioners of each DOT and STATE POLICE.

13. Transfer of Custody and Control

The parties agree that the instrument used to grant the transfer of custody and control of the SITE from DOT to STATE POLICE will include language reserving DOT's right to continue to utilize the SITE for its telecommunication purposes, including the NEW TOWER and the NEW AGENCY ROOM, and if any of those structures are subsequently removed and replaced, any newly constructed tower and agency room or equivalent telecommunications facilities on the SITE. The parties agree that the instrument will contain a reverter clause to ensure the transfer of the SITE back to DOT if the STATE POLICE ceases to use the SITE for telecommunication purposes and/or ceases to maintain a tower or equivalent telecommunications facilities necessary for use of the SITE for telecommunication purposes.

14. Entire Understanding

It is hereby mutually agreed and understood that this AGREEMENT contains all agreements, promises and understandings between the parties and no verbal or oral agreements, promises or understandings shall or will be binding upon the parties in any dispute, controversy, or proceeding at law, and any addition, variation, or modification to this AGREEMENT shall be void and ineffective unless in writing and signed by the parties hereto.

Memorandum of Agreement
Transfer of Management of Telecommunications Site

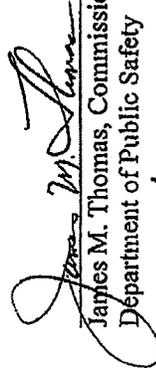
15. Governor's Executive Orders

Each of the parties, as State agencies, are subject to provisions of Executive Order No. 7C of Governor M. Jodi Rell, promulgated July 13 2006, concerning contracting reforms, Executive Order No. Three of Governor Thomas J. Meskill, promulgated June 16, 1971, concerning labor employment practices, Executive Order No. Seventeen of Governor Thomas J. Meskill, promulgated February 15, 1973, concerning the listing of employment openings and Executive Order No. Sixteen of Governor John G. Rowland promulgated August 4, 1999, concerning violence in the workplace, all of which by reference are incorporated into this AGREEMENT.

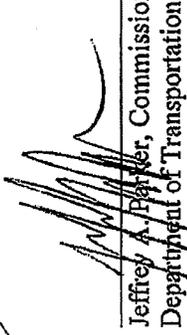
16. Governmental Approvals

STATE POLICE represents that, as part of its MANAGEMENT responsibilities, it has obtained, or will use reasonable and diligent efforts to obtain, all necessary governmental approvals for use of the NEW TOWER including any approvals from, or notices to, the Connecticut Siting Council.

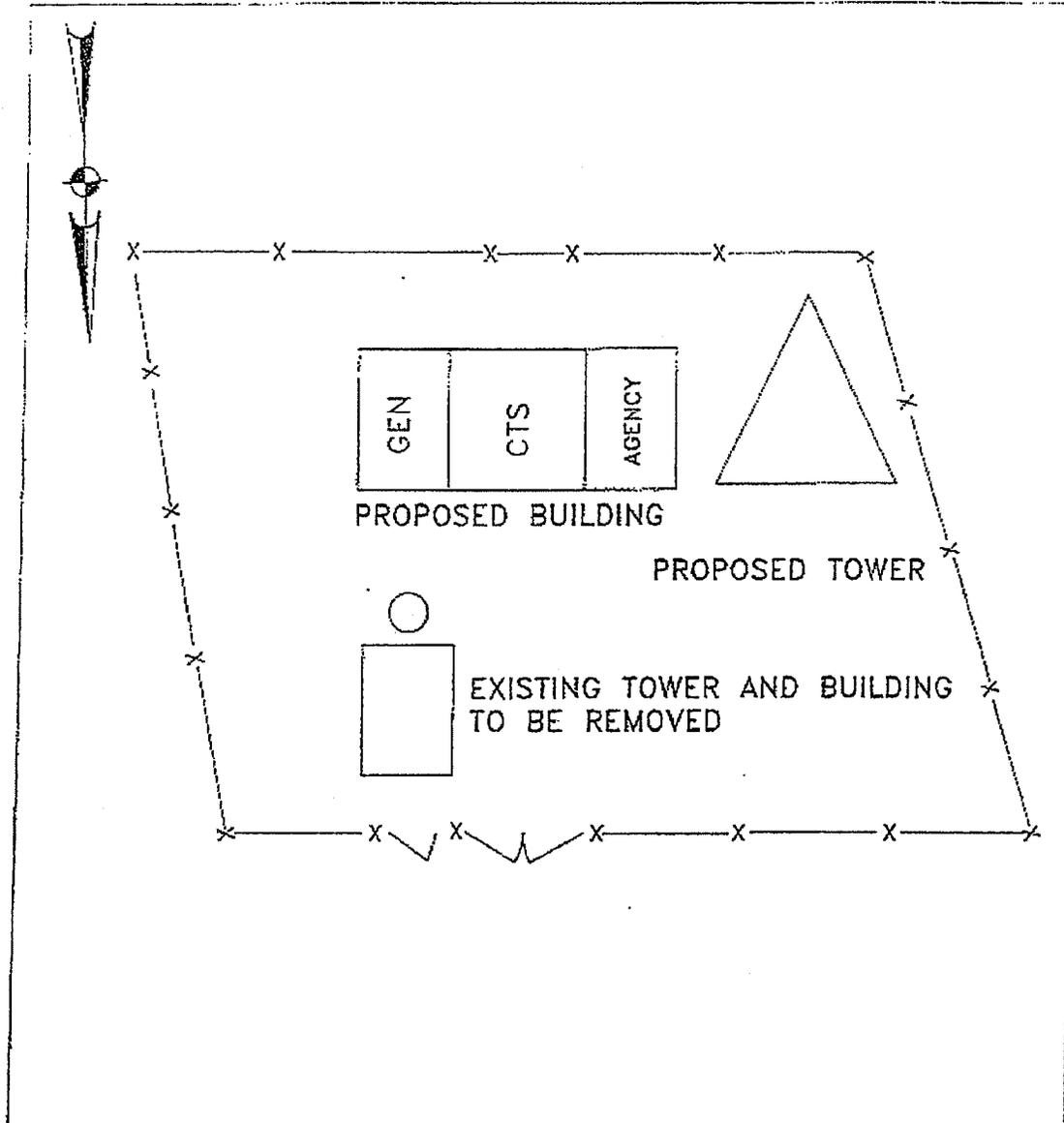
Agreed and accepted on the date stated:


James M. Thomas, Commissioner
Department of Public Safety

August 17, 2010
Date

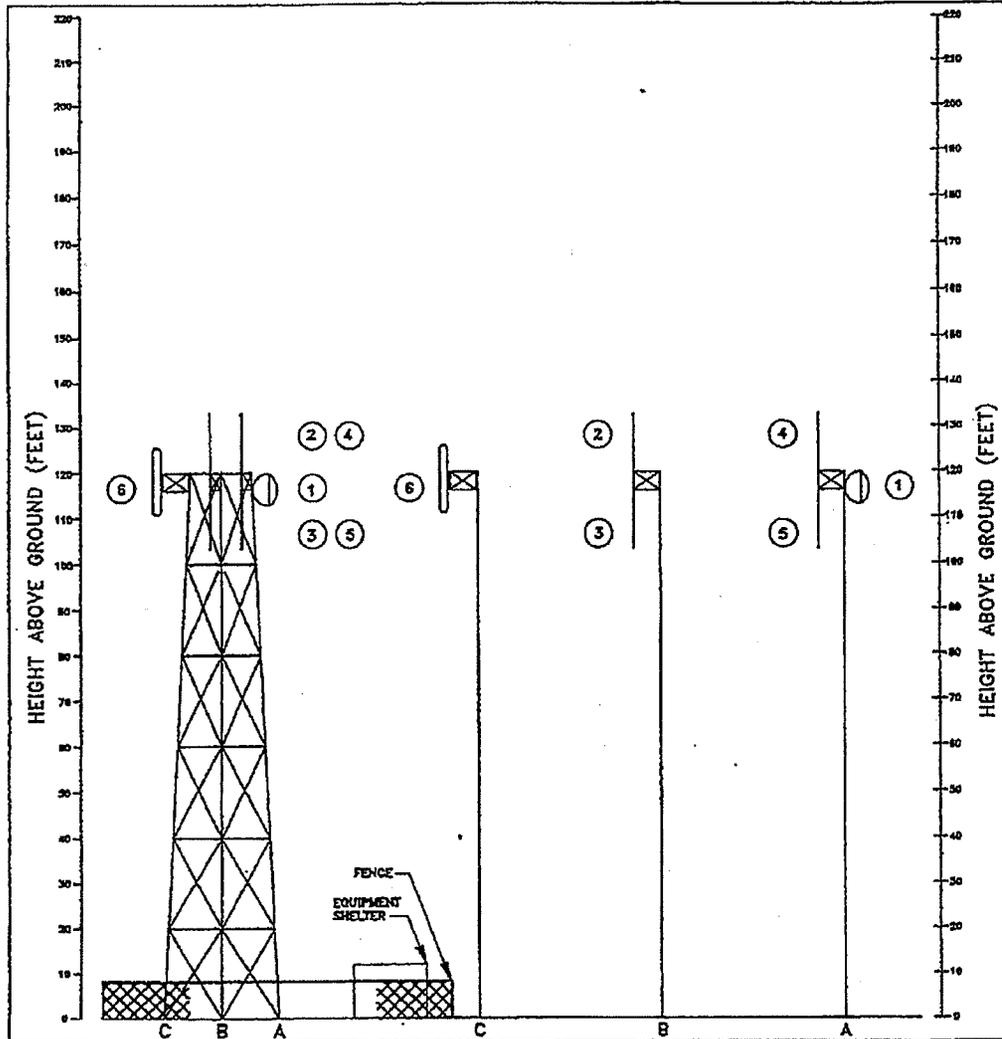

Jeffrey A. Payer, Commissioner
Department of Transportation

8/20/2010
Date



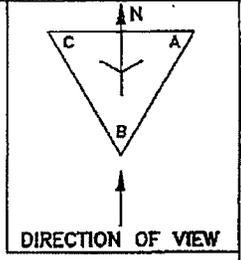
DRAWN 02-08-2010		CTS PROJECT		
DESIGNED		SITE MT. PARNASSUS		
CHECKED		TITLE SITE PLAN		
PROJECT APPROVED		SIZE	PROJECT	DRAWING NUMBER
APPROVED FOR		B	CTS	052-200
APPROVED FOR				REV.
				SHEET 1 of 1

ATTACHMENT B



LEGEND

- ① 6" DISH W/RADOME (CSP)
- ② ③ ④ ⑤ 11" WHIP (CSP)
- ⑥ 12' DIPOLE (DOT)



DESIGNED	03-23-2010	CTS PROJECT		
CHECKED		SITE MT. PARNASSUS		
REVISED		TITLE ELEVATION & ANTENNA LOCATIONS		
		SIZE	PROJECT	DRAWING NUMBER
		B		052-515
		SCALE	AS SHOWN	SHEET 1 of 1

41-28-11.0
72-24-35.0

Attachment C

SITE	ANT	USER	USE	FREQ	TX	HGT	TWR	ANT AZ	SZ	MANUF	MODEL	GAIN	CABLE	DESCRIPTION
52	1	CSP	MW-EAST LYME	6700	1	120B		133	6	CELWAVE	PA6-65		37 WEP65	DISH W/RADOME
52	2	CSP	MW-COLCHESTER	6700	1	120A		31	6	CELWAVE	PA6-65		37 WEP65	DISH W/RADOME
52	3	CSP	MW-HADDAM	6700	1	120C		251	6	CELWAVE	PA6-65		37 WEP65	DISH W/RADOME
52	4	CSP	K-800MHZ TX	866.275	25	120B			11	DECIBEL	DB-810		10 LDF7-50A	WHIP
52	5	CSP	K-800MHZ RX	821.275	0	120B			11	DECIBEL	DB-810		10 LDF7-50A	INVERTED WHIP
52	6	CSP	I-CALL TX	866.0125	25	120A			11	DECIBEL	DB-810		10 LDF7-50A	WHIP
52	7	CSP	I-CALL RX	821.0125	0	120A			11	DECIBEL	DB-810		10 LDF7-50A	INVERTED WHIP
52	8	DOT	OPS	47.30	100	120C			12	COMPROD	531-70		0 LDF5-50A	DIPOLE
52	9	ToEHaddam	OPS	46.18	110	100A			12	COMPROD	531-70		0 LDF5-50A	DIPOLE
52	10	ToEHaddam	OPS	153.8	35	100B			6	TELEWAVE	VHF-150		3 LDF5-50A	DUAL DIPOLE
52	11	ToEHaddam	OPS	46.58	50	100C			12	COMPROD	531-70		0 LDF5-50A	DIPOLE
			08-02-2010											

DATE: 9/14/06 REV. 2006

SITE INSTALLATION AND APPEARANCE STANDARDS**1** PURPOSE

To provide for a policy of common quality in site installation and maintenance, it is necessary that there be a written definition of those things which affect both the technical performance of the site and its appearance. These standards are to be in effect for each and every licensor or licensee having equipment in, on or about the site where the right to occupy is granted by the license to which this document is an attachment.

It is not the intent of this document to set standards of excellence or other requirements that would make the use of the site costly or arduous, but to ensure a well defined mutually protecting level of installation and maintenance. A clear understanding of how equipment is to be installed and maintained by all licensors and licensees reduces the probability of impaired site performance due to a sub-standard installation.

Any and all proposed work shall be forwarded to the STATE POLICE for review. Details of the intended work shall be presented with State of Connecticut Professional Engineer approved engineered drawings. Upon approval by the STATE POLICE, DOT will be required to submit to the STATE POLICE a list of all contractors DOT intends to employ to do the work and the contractors must have been authorized to do business under the laws of the State of Connecticut. The STATE POLICE will have final rights of approval for the engineering drawings and site contractors.

2 STATE AND NATIONAL STANDARDS

All installations must, at a minimum, be in conformance with the following State and National codes:
American National Standards Institute:

ANSI/EIA-222F Structural Standards For Steel Antenna Towers And Antenna Supporting Structures

Federal Aviation Administration Regulations:

Title 14, Chapter I, Part 77 Objects Affecting Navigable Airspace

Advisory Circular Obstruction Marking And Lighting
AC 70/7460-1K CHG 1

Advisory Circular High Intensity Obstruction Lighting Systems
AC 1 50/5345-43,
FAA/DOD Specifications L-856

Federal Communications Commission Rules And Regulations:

Code Of Federal Construction, Marking And
Regulations Title 47 Lighting Of Antenna Structures
Chapter 1, Part 17

National Electrical Code
Building Officials And Code Administrators International, Inc.

Basic National Building Code

Basic National Mechanical Code

State Building Code, Connecticut Supplement To Boca

SITE INSTALLATION AND APPEARANCE STANDARDS

National Fire Protection Association
CODE 101 - Life Safety
CODE 90A - Air Conditioning And Ventilating Systems
CODE 110 - Emergency And Standby Power Systems

State Fire Safety Code, Connecticut Supplement To NFPA 101

Occupational Safety And Health Administration
Safety And Health Standards (29 CFR 1910) General Industry

Subpart R Special Industries
1910.268 Telecommunications

3. TOWER

This section deals with items which are to be mounted on, attached to or otherwise affixed to the tower.

3.1 ANTENNAS3.1.1 MOUNTS

All antennas shall be mounted to the tower with standard commercial hardware manufactured for this purpose. The mounting hardware in all components shall meet the requirements of ANS/EIA Standard 222F with simultaneous 90 mile an hour winds and 1/2" radial ice.

3.1.2 LOCATION

Antennas shall be mounted only at the heights, azimuths, with the standoffs and in the positions shown in the License Agreement to which this document is an attachment.

3.1.2.1 REPOSITIONING

Site users shall not relocate antennas from the positions shown in the licensing agreement nor install antennas additional to the agreement without the approval of the licensor and the informing of all licensees. A relocation which causes a question as to the ability of the tower to bear the antenna in the new location and as well as all antennas listed in the site licensing agreement shall require that a structural analysis be performed to ensure that there is no loss of tower capacity. The analysis shall be done at the expense of the site user desiring to move the antennas.

3.1.3 ADDITIONAL

It shall be the responsibility of the site user desiring to install any antenna or other device beyond those listed in the site licensing agreement to have done the structural analysis necessary to ensure that the "new" antenna does not exceed the capacity of the tower to bear. Under the "last man on" standard, the site user installing the "new" equipment shall be responsible for ensuring that it causes no interference problems and/or taking remedial action as to correct any problems caused by the "new" equipment. The Department of Public Safety, as a primary tower user, shall be exempt from any requirement to resolve interference at DPS sites.

3.1.4 GROUNDING

The body of all antennas shall be bonded to the tower.

SITE INSTALLATION AND APPEARANCE STANDARDS3.2 COMPONENTS AND DEVICES

All components and devices attached to the tower, amplifiers, filters etcetera, shall be attached with standard commercial hardware manufactured for the purpose. The use of tape, wire wrap, plastic ties, and similar material is not acceptable.

3.3 CLIMBING BOLTS AND LADDERS

All attachments made to the tower shall be made in such a manner as to not cause any restriction or present a safety hazard to any climbing ladders, leg step bolts or safety cables provided.

4.0 CABLE AND WAVEGUIDE

To reduce the probability of physical or lightning damage to antennas, cable and waveguide and equipment, the requirements for methods of attachment, routing and grounding are specific for the tower, bridge and shelter interior and are described in the following paragraphs. Only headline will be acceptable.

4.1 EXTERIOR

This section will consider the horizontal routing of cable and waveguide via a bridge from the shelter to the tower and the vertical routing on the tower.

4.1.1 BRIDGE

A bridge with ice shield is provided between the shelter and the tower. Brackets are provided on this bridge for the support and routing of the cable and waveguide. In accordance with the manufacturer's recommendations for the spacing of supports on horizontal runs for the particular type of cable or waveguide, the cable or waveguide shall be secured to the brackets on the bridge using clamps and hardware specifically manufactured for that purpose. In lieu of a particular and specific recommendation from the manufacturer of the cable or waveguide, the recommendations of the latest version of Andrews Catalog 35 for similar type cable or waveguide shall be considered to be the minimum acceptable standard. No cable or waveguide run shall be clamped, tied or in any way affixed to a run belonging to another agency or user. The use of tape, wire wrap, plastic ties, and similar material is not acceptable.

4.1.2 TOWER4.1.2.1 LADDER

A ladder is provided for the vertical routing of cable and waveguide. From the horizontal to vertical transition at the point where the bridge meets the tower to the point at which the cable or waveguide must leave the bridge to route to the antenna, all cable and waveguide is to be attached to the ladder in accordance with the recommendations of the manufacturer of the cable or waveguide. In lieu of a particular and specific recommendation from the manufacturer of the cable or waveguide, the recommendations of the latest version of Andrews Catalog 35 for similar type cable or waveguide shall be considered to be the minimum acceptable standard. No cable or waveguide run shall be clamped, tied or in any way affixed to a run belonging to another agency or user. The use of tape, wire wrap, plastic ties, and similar material is not acceptable.

4.1.2.2 DISTRIBUTION RUNS

Cable or waveguide runs, from the ladder to the point at which they mate to the antenna, shall be routed along tower members in a manner producing a neat and professional site appearance. They shall be specifically routed so as to not impede in any fashion the safe use of the tower leg climbing bolts nor to restrict the access of other tower users. Distribution runs shall be clamped to the tower in accordance with the recommendations of the manufacturer of the cable or waveguide. In lieu of a particular and specific recommendation from the manufacturer of the cable or waveguide, the recommendations of the latest version of Andrews Catalog 35 for similar type cable or waveguide shall be considered to be the minimum acceptable standard. No cable or waveguide run shall be clamped, tied or in

DATE: 9/14/06

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SITE INSTALLATION AND APPEARANCE STANDARDS

anyway affixed to a run belonging to another agency or user. The use of tape, wire wrap, plastic ties, and similar material is not acceptable.

4.1.3 LENGTHS

Cable and waveguide runs shall not be excessive to the requirement. No coiled lengths shall be permitted on the tower, bridge or on the ground. The cable length of the finished run shall provide for normal maintenance and operation only.

4.1.4 ENTRY

Entry of the cable or waveguide, to the interior of the shelter, shall be via ports provided in the shelter wall. Cable or waveguide entering a port shall be provided with a boot to seal the port; the boot shall be a commercial product made specifically for the type of cable or waveguide and for the diameter of the entry port. It shall be installed in accordance with the instructions of the manufacturer and shall seal the port against the intrusion of moisture.

4.2 INTERIOR

As there may be more than one site user within a shelter area it is necessary that the routing of cable or waveguide provide for the needs of all occupants.

4.2.1 ROUTING

Trays are provided within the shelter for the routing of cable and waveguide to the various equipment racks and termination points. All cable and waveguide shall be placed and secured to the cable tray where possible. Where bend radii or other conditions do not permit the cable or waveguide to be tightly bound to the tray, it shall be placed and secured in a neat and professional manner, making full allowance for the needs of the other site users. Cable or waveguide that can not be bound to the tray shall be provided with standoffs and clamps to prevent its being a free moving hazard.

4.2.2 LENGTHS

Cable and waveguide runs in the shelter shall not have a length in excess of the requirement. While adequate slack for purposes of maintenance and operation is permitted, no coiled lengths on the tray or elsewhere in the shelter are permitted. In closed equipment racks the site user may dispose of excess lengths as desired, but it shall not protrude from the rack nor detract from the professional appearance of the site.

4.3 GROUNDING

Cable and waveguide shall be grounded as a minimum at three specific points, and for vertical runs in excess of 200 feet at intermediate points.

4.3.1 ANTENNA

All cable and waveguide shall be grounded to the tower at the point where the run effectively breaks from the tower for its connection to the antenna, using clamps and hardware specifically manufactured for that purpose.

4.3.2 BRIDGE TRANSITION

On the vertical portion of the cable or waveguide run, just above where it starts to make its transition from a vertical tower to a horizontal bridge run, all cable and waveguide shall be grounded to the tower ground bar using clamps and hardware specifically manufactured for that purpose.

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SITE INSTALLATION AND APPEARANCE STANDARDS4.3.3 SHELTER ENTRY

On the exterior of each shelter at a point near the entry ports, a grounding plate has been provided for terminating ground leads brought from the cable and waveguide. Each cable and waveguide run shall be grounded at this point using clamps and hardware specifically manufactured for that purpose.

4.3.4 INTERMEDIATE POINTS

On cable and waveguide installations where the vertical tower length exceeds 200 feet, the run shall be grounded at equally spaced intermediate points along the length of the run so as to not have a distance to a grounding point longer than 100 feet.

4.3.5 GROUNDING POINTS

Cable and waveguide grounding leads shall connect to a separate point for each run; leads shall not be grouped to the common ground point.

4.3.6 GROUNDING LEADS

Grounding straps shall be kept to a minimum length and as near as possible to vertical down lead and shall be consistent with the restraints of protective dress and access.

5.0 SHELTER

Floor and wall space within the shelter has been established using information received from the various site users. While some measure of expansion has been provided, any user desiring to increase its use of floor space within the shelter must obtain approval from the licensor.

For the protection of the interest of all current and future site users, all equipment layout should be done with the intent of 'Economy Of Space'.

5.1 FLOOR SPACE

The floor plans for shelter layout are part of the licensing agreement and must be adhered to by each site user. Variance from the floor plan must have the prior approval of the licensor.

5.2 WALL SPACE

No provision has been made for the mounting, or otherwise affixing, of user equipment to the walls of the multiple users spaces of the shelter. Any use of the wall space for the temporary or permanent installation of any equipment or device shall require the prior approval of the licensor as to type of equipment, space to be used and method of attachment.

5.3 RACKS

All racks and equipment are to be plumb and true with the walls and floor of the shelter and reflect an installation consistent with the electrical and operational requirements of the equipment and the appearance standards of a professional installation. Racks are to be bolted to the floor and aligned on the center line as in the site drawing provided by the licensor. Racks are not to be attached to the cable trays.

ATTACHMENT D

SITE INSTALLATION AND APPEARANCE STANDARDS5.4 INTERCONNECTION CABLES

All communications and interconnection cabling between equipment and/or distribution frames, (microwave, PSTN, or other demarcation points) shall be placed in provided cable trays and secured to the tray in a neat, orderly and professional manner.

6.0 ELECTRICAL

The electrical supply and distribution system has been designed on data supplied by the individual site users. All equipment shall be 120 VAC @ 15 AMPS maximum, except with prior approval of the licensor.

6.1 SIZING

The breaker panels and breakers have been sized to provide for the loads as defined in the data obtained from the site users and contained as an attachment to the site licensing agreement for each site user. Changes in loads, either in current draw or phase distribution of the load, shall be made only with the prior approval of the site licensor.

6.1.1 TEMPORARY LOADS

Test equipment, soldering irons or other equipments serving a test or repair function may be connected to one of the service outlets; providing that the total load connected to any single dual receptacle does not exceed 15 AMPS. Equipment to be in place for more than 7 days will require prior approval of the licensor.

The above paragraph applies only to site users obtaining power from the DPS provided distribution system.

6.2 DISTRIBUTION

Within DPS provided or controlled spaces wiring from the distribution breaker panel is provided to the rack location and terminated at the cable tray with a twist lock receptacle. From this point each agency may select how to distribute to its equipment or rack.

6.3 GROUNDING

In each room a halo grounding system is provided for access to the site grounding system. Each rack shall have a properly sized, ground lead from the rack safety and signal grounds the closest point of the halo ground system. Each rack shall be separately grounded.

6.4 BATTERY SYSTEMS

Installation of equipment utilizing battery systems shall be made only with the prior approval of the site licensor and be included in the licensee agreement, batteries shall only be installed in cases and racks approved by the licensor. Any battery system installation in a DPS controlled space that has not been previously equipped with an approved eyewash station shall include such eyewash station as part of the installation. The eyewash station shall be self contained, gravity flow, wall hung, with a sixteen (16) gallon capacity. The station shall meet ANSI z358.1 requirements for refillable personal eyewash units. The maintenance and current date code of the supplied eyewash station is the responsibility of the licensee.

7.0 HEATING, VENTILATING AND AIR CONDITIONING

A controlled environment is provided for the equipment spaces by a redundant air conditioning system; this system has been sized to provide for the heat loads obtained from the equipment lists provided by the various site users. Additional equipment or equipment having a greater heat dissipation requirement than that specified in the licensing agreement can not be installed without the prior approval of the licensor.

ATTACHMENT D

PAGE: 7 OF 7

DATE: 9/14/06 REV. 2006

SITE INSTALLATION AND APPEARANCE STANDARDS

7.1 SYSTEM INTEGRITY

Opening of the shelter to the effects of outside air flow can have a negative effect on the ability of the system to maintain temperature and humidity; every effort should be made to reduce the amount of time that doors or other wall entries are kept open.

7.2 DOORS

Except when actually moving equipment in or out, the shelter doors shall not be latched or otherwise held or kept open.

8.0 SITE APPEARANCE

Services to maintain the appearance and integrity of the site will be provided by the licensor and will include scheduled cleaning of the shelter interiors; this does not include janitorial services for the licensees, and each site licensee is expected and required to remove from the site all trash, dirt and other materials brought into the shelter, or onto the site during their installation and maintenance efforts.

8.1 STORAGE

Within DPS provided or controlled spaces no parts or material may be stored on site by licensees.

9.0 DAMAGE

Damage to any item of the site facility or structure or to a component or equipment of a site licensee or licensor whether caused or detected by installation, maintenance or other activities shall be reported to the licensor immediately.

10. SITE ACCESS

10.1 ACCESS CONTROL

To ensure that only authorized personnel are accessing the site, licensees shall be required to, inform the licensor and Network Control Center (NCC) of personnel and/or maintenance organizations they are requesting authorization to enter the site as the licensee's agent.

10.2 REPORTING ON SITE

To ensure that only authorized personnel are on site, an orderwire system is installed in each room to allow communications with the Network Control Center (NCC). Personnel on site shall be required to communicate with the network control center and report their arrival on site, identity, purpose, expected and actual departure times.

10.3 IDENTIFICATION

Each user shall post a current license on all equipment. Licenses shall also post the name and 24 hour phone number and agency contact in case of an emergency

EXHIBIT 2

Parcel: State of Connecticut
Area: 8,695 S.F., 0.200 Acres

A certain parcel of land located in the Town of East Haddam, Middlesex County and State of Connecticut being described as follows:

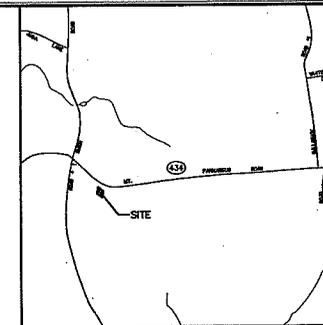
Beginning at a point on the southerly streetline of Mt. Parnassus Road at the division line between land now or formerly of Maria L. Brown and the parcel herein described;

thence running South $09^{\circ}-04'-08''$ West 100.00 feet along land now or formerly of Maria L. Brown to a point;

thence running North $51^{\circ}-20'-52''$ West 100.00 feet to a point, thence turning and running North $09^{\circ}-04'-08''$ East 100.00 feet, all along land now or formerly of John E. Shanaghan, Richard T. Cummings and Karen A. Clifford, to a point;

thence running South $51^{\circ}-20'-52''$ East 100.00 feet along the southerly streetline of Mt. Parnassus Road to the point of beginning.

Being more particularly bounded and described on a map entitled: "Property/ Topographic Survey, Prepared for: Connecticut Department of Construction Services, Mt. Parnassus Road, East Haddam, Connecticut," Scale: $1''=20'$, Dated: July 1, 2014, Prepared by: Milone & MacBroom, Inc.



LOCATION MAP
SCALE: 1"=100'

NOTES:

- THIS SURVEY HAS BEEN PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 30-280B-4 THROUGH 30-280B-28 AND THE "STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON SEPTEMBER 26, 1996. IT IS A PROPERTY SURVEY/TOPOGRAPHIC SURVEY BASED ON A CONFORMING RESURVEY CONFORMING TO HORIZONTAL ACCURACY CLASS A-2 AND TOPOGRAPHIC ACCURACY CLASS 1-2 AND IS INTENDED TO DEPICT EXISTING SITE CONDITIONS.
- NORTH ARROW, BEARINGS AND COORDINATES ARE BASED UPON THE CONNECTICUT COORDINATE SYSTEM (NAD 1983).
- ELEVATIONS, CONTOURS AND BENCHMARK ARE BASED UPON NAVD 1983.
- REFERENCE IS HEREBY MADE TO THE FOLLOWING MAPS:
 - "CONNECTICUT STATE HIGHWAY DEPARTMENT RIGHT OF WAY MAP, TOWN OF EAST HADDAM, HILLINGTON ROAD-MT. PARNASSUS FROM NEAR THE OLD ROAD WESTERLY ABOUT 3,000 FEET", SCALE: 1"=40', DATED: APRIL 26, 1995, NUMBER 886 (C/DOT)
 - "SURVEY OF PARCEL OF LAND ON EAST HADDAM-HILLINGTON RD., TOWN OF EAST HADDAM, CT, TO BE CONVEYED BY EDWARD & ANNA SHANAGHAN TO MOTOROLA C. & E. INC., SCALE: 1"=30', DATED: APRIL 25, 1998, PREPARED BY: ERNEST L. DESHERY, MAP #333 E.H.L.K.
 - "MAP SHOWING PROPERTY TO BE CONVEYED TO JAMES G. PATTELLO BY 200 MOUNT PARNASSUS ROAD, EAST HADDAM, CONNECTICUT" SCALE: 1"=40', DATED: MAY 13, 1998, PREPARED BY: WILLIAM F. ORSINE & ASSOCIATES, MAP #3100 E.H.L.K.

N/F
John E. Shanaghan,
Richard T. Cummings &
Karen A. Clifford

N/F
Maria L. Brown

N/F
John E. Shanaghan,
Richard T. Cummings &
Karen A. Clifford

N 732180.3385
E 1092803.1208

AREA
8,695 S.F.
0.200 ACRES

Benchmark
Bench Tie In CLAP 2025
Elev. = 955.64

Building
Shack
17#=396.28

Electric
Vault

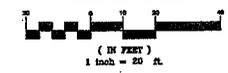
Antenna

Spin
to be
Set

LEGEND

- STREET LINE
- PROPERTY LINE
- STONEMALL
- TREELINE
- OVERHEAD WIRES
- UTILITY POLE
- CONCRETE MONUMENT FOUND
- DRILLHOLE TO BE SET
- IRON PIN TO BE SET
- CUY WIRE

GRAPHIC SCALE



PROPERTY/TOPOGRAPHIC SURVEY

PREPARED FOR:
CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES
MT PARNASSUS ROAD
EAST HADDAM, CONNECTICUT

DATE	JULY 1, 2014
SCALE	1"=20'
DESIGNED	TJP
CHECKED	MFM

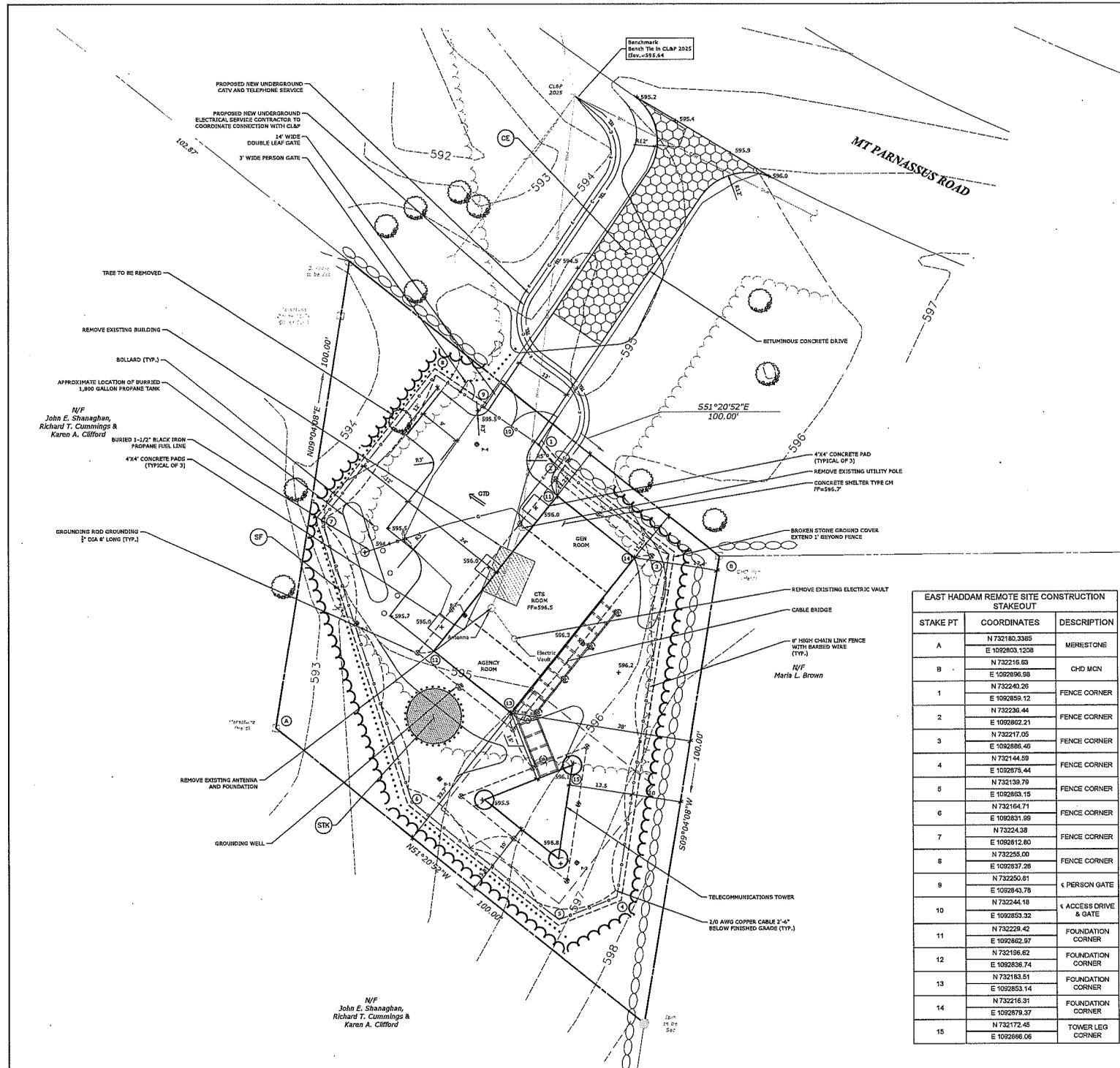
MILONE & MACBROOM
99 Ready Drive
Cheshire, Connecticut 06410
(203) 271-1773 Fax (203) 272-9733
www.MiloneMacBroom.com

1268-40
PROJECT NO.
1 OF 1
SHEET NO.

TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.

ROBERT A. JACKSON, JR. L.S. #1347

MAP IS NOT VALID WITHOUT A LIVE SIGNATURE AND EMBOSSED SEAL.



STATE OF CONNECTICUT
 DEPARTMENT OF TRANSPORTATION
 DISTRICT II
 111 Salem Turnpike
 Norwich, Connecticut 06240
 Phone: (860) 823-3114

November 7, 2014

Mr. Aron Schumacher, EIT
 Milone & MacBroom, Inc.
 99 Ready Drive
 Cheshire, Connecticut 06410

Dear Mr. Schumacher:

Subject: CTS East Haddam Remote Site
 194 Mount Parnassus Road, SR 434
 Town of East Haddam

This office has completed our review of the submitted plans entitled, "CTS East Haddam Remote Site - 194 Mount Parnassus Road - East Haddam, Connecticut" dated August 22, 2014. We find the proposal acceptable and have no further comments at this time.

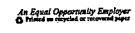
A final review will be performed by the Department of Transportation, at which time additional changes may be required. As regulated by Connecticut General Statute 13b-17, no work is to commence within the State right of way without first obtaining a DOT encroachment permit.

- An encroachment permit may be obtained upon approval of the following:
- Two complete sets of the latest town-approved plans (40 scale or larger).
 - A completed encroachment permit application (State Form PMT-1 Rev. 5/01).
 - A Bond on State Form CLA-5 in the amount of \$10,000 in the owner or developer's name.
 - Proof of minimum insurance requirements (General Liability of \$1,000,000 and Aggregate of \$2,000,000). Insurance may be carried by the contractor.
 - A check or money order in the amount of \$125 payable to "Treasurer - State of Connecticut."
- These forms, along with additional information, may be obtained at www.ct.gov/dot.
- If you have any questions in regard to this matter, please contact Mr. Carlos Wimberly of this office at (860) 823-3114.

Sincerely,

 Andrew S. Mouril
 Special Services Section Manager
 Bureau of Highway Operations

cc: East Haddam Planning and Zoning

An Equal Opportunity Employer


EAST HADDAM REMOTE SITE CONSTRUCTION STAKEOUT		
STAKE PT	COORDINATES	DESCRIPTION
A	N 732180.3385	MERESTONE
	E 1092803.1209	
B	N 732216.63	CHD MON
	E 1092806.98	
1	N 732240.28	FENCE CORNER
	E 1092858.12	
2	N 732236.44	FENCE CORNER
	E 1092862.21	
3	N 732217.05	FENCE CORNER
	E 1092886.46	
4	N 732144.59	FENCE CORNER
	E 1092875.44	
5	N 732139.79	FENCE CORNER
	E 1092863.15	
6	N 732164.71	FENCE CORNER
	E 1092831.99	
7	N 73224.38	FENCE CORNER
	E 1092812.80	
8	N 732255.00	FENCE CORNER
	E 1092837.28	
9	N 732250.61	PERSON GATE
	E 1092843.78	
10	N 732244.18	ACCESS DRIVE & GATE
	E 1092853.32	
11	N 732228.42	FOUNDATION CORNER
	E 1092862.97	
12	N 732196.62	FOUNDATION CORNER
	E 1092836.74	
13	N 732183.51	FOUNDATION CORNER
	E 1092853.14	
14	N 732216.31	FOUNDATION CORNER
	E 1092879.37	
15	N 732172.45	TOWER LEG CORNER
	E 1092866.06	

NOTES

1. PROPERTY AND TOPOGRAPHIC INFORMATION IS TAKEN FROM MAP PREPARED BY: MILONE & MACBROOM, INC. ENTITLED: PROPERTY/TOPOGRAPHIC SURVEY, CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES, DRAWN AT A SCALE OF 1"=20', DATED JULY 1, 2014.
2. NORTH ARROW AND BEARING AND DISTANCES ARE BASED UPON CONNECTICUT COORDINATE SYSTEM (NAD 1983).
3. ELEVATIONS, CONTOURS, AND BENCHMARK ARE BASED UPON NAVD 1988.
4. BORING LOCATIONS SHOWN FROM TERRACON ENGINEERING REPORT DATED JULY 7, 2014.
5. CONTRACTOR SHALL OBTAIN ENCROACHMENT PERMIT FROM CT DOT.
6. CONCRETE PADS AT DOORWAYS SHALL SLOPE AWAY FROM SHELTER AT 1/8" PER 1'.
7. ALL DISTURBED AREAS OUTSIDE OF THE GROUND COVER SHALL BE TOPRESSED ACCORDING TO EH SPECIFICATIONS.
8. EXISTING UTILITY INFORMATION SHOWN HEREON IS NOT GUARANTEED TO BE CORRECT OR COMPLETE. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING ACTUAL LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES INCLUDING SERVICES IN THE AREAS OF EXCAVATION.
9. ALL AREA WITHIN THE GROUND COVER AREA SHALL BE CLEARED AND GRUBBED.



Drawing title SITE PLAN		STATE OF CONNECTICUT DEPARTMENT OF ADMINISTRATIVE SERVICES DIVISION OF CONSTRUCTION SERVICES	
REVISIONS		Drawing prepared by MILONE & MACBROOM 99 READY DRIVE CHESHIRE, CONNECTICUT 06410	
DATE	DESCRIPTION	DATE	DESCRIPTION
		11/20/2014	ISSUE
		1" = 10'	DRAWN BY AJCS
			APPROVED BY TD
			DRAWING NO. C1
PROJECT CTS EAST HADDAM REMOTE SITE ENHANCEMENT (SITE #52) DES/PP		194 MOUNT PARNASSUS ROAD EAST HADDAM, CONNECTICUT	
CAD FILE MP-Layout.dwg		PLOT FILE E-H-337 (MM) # 1266-40	

N/E
 John E. Shanaghan,
 Richard T. Cummings &
 Karan A. Clifford

N/E
 John E. Shanaghan,
 Richard T. Cummings &
 Karan A. Clifford

EXHIBIT 3



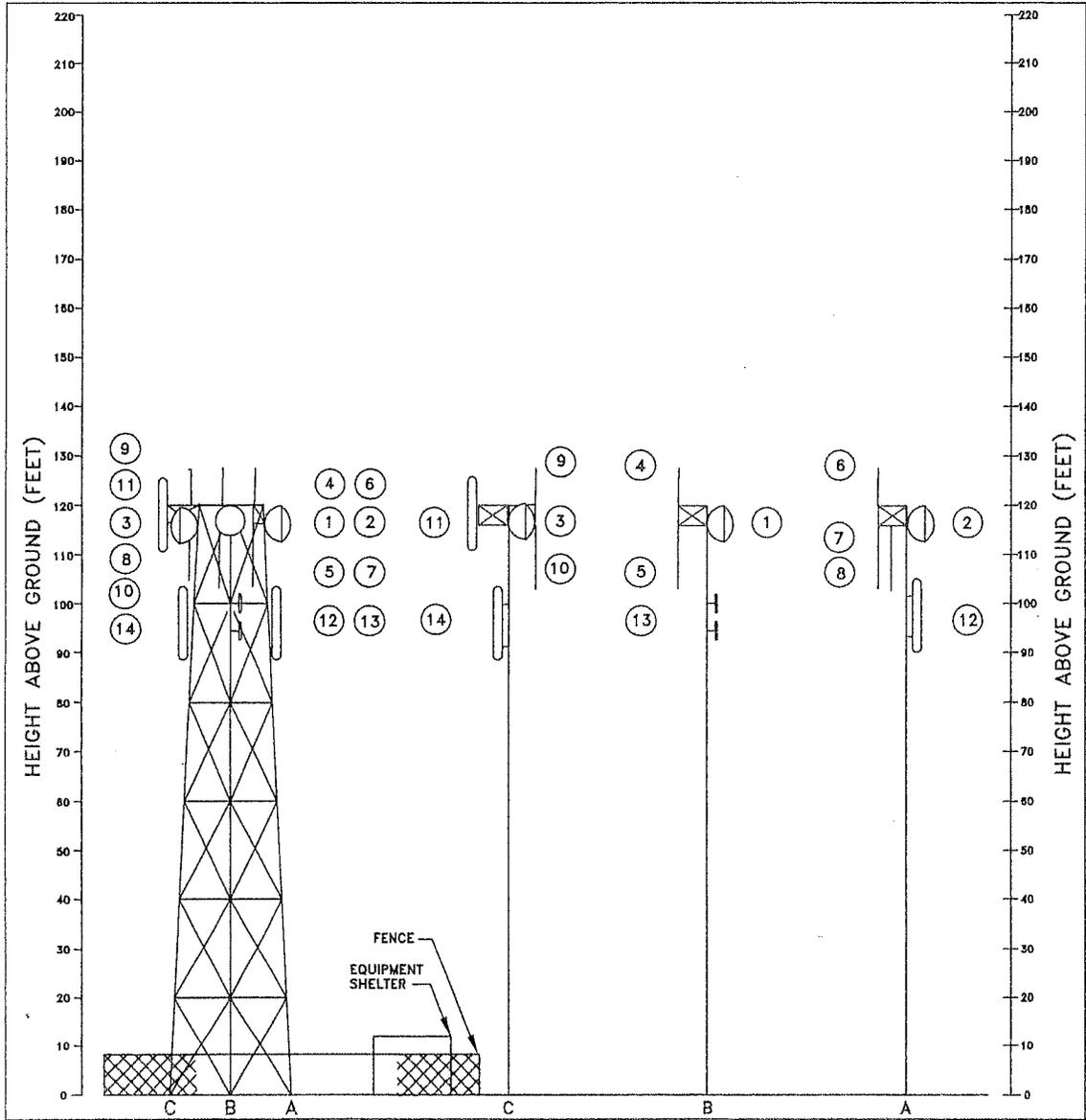




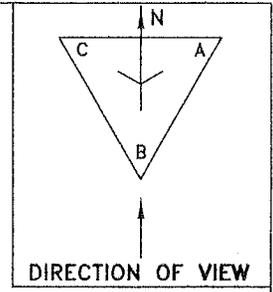




EXHIBIT 4



- LEGEND**
- ① ② ③ 6' DISH W/RADOME (CSP)
 - ④ ⑤ ⑨ ⑩ 11' WHIP (CSP)
 - ⑥ ⑦ ⑧ 14' WHIP (CSP)
 - ⑪ 12' DIPOLE (DOT)
 - ⑫ ⑭ 12' DIPOLE (ToEH)
 - ⑬ 2 DIPOLE ARRAY (ToEH)



DESIGNED		CTS PROJECT			
CHECKED		SITE MT. PARNASSUS			
REVISED		TITLE ELEVATION & ANTENNA LOCATIONS			
		SIZE	PROJECT	DRAWING NUMBER	REV.
		B		052-515	
41:28:11.0 72:24:35.0		SCALE	AS SHOWN	SHEET 1 of 1	

EXHIBIT 5



Department of Economic and
Community Development

Connecticut
still revolutionary

November 18, 2014

Mr. Matthew J. Valteau
CT Department of Emergency Services and Public Protection
1111 Country Club Road
Middletown, CT 06457

Subject: Proposed Telecommunications Tower
194 Mt. Parnassus Road
East Haddam, CT

Dear Mr. Valteau:

The State Historic Preservation Office is in receipt of the proposal for the above-referenced project, submitted for review and comment pursuant to the National Historic Preservation Act and in accordance with Federal Communications Commission regulations.

Based on the information provided to this office, the State Historic Preservation Office has determined that no historic properties will be affected by the proposed undertaking, which is to replace a structurally deficient 120' monopole tower with a new 120' monopole tower and associated equipment shelter within a 42' by 21' leased area.

The State Historic Preservation Office appreciates the opportunity to review and comment upon this project. These comments are provided in accordance with the Connecticut Environmental Policy Act and Section 106 of the National Historic Preservation Act. For further information please contact Todd Levine, Environmental Reviewer, at (860) 256-2759 or todd.levine@ct.gov.

Sincerely,

Mary B. Dunne
Deputy State Historic Preservation Officer



State Historic Preservation Office

One Constitution Plaza | Hartford, CT 06103 | P: 860.256.2800 | Cultureandtourism.org

An Affirmative Action/Equal Opportunity Employer. An Equal Opportunity Lender

EXHIBIT 6

EXISTING

Antenna	OPERATING FREQUENCY (MHz)	EIRP (Watts)	DISTANCE TO BASE OF TOWER (FEET)	MAXIMUM PERMISSIBLE EXPOSURE (MW/SQ-CM)	AT THE BASE OF THE TOWER
Existing DOT					POWER DENSITY (MW/SQ-CM) PERCENT OF MAX. EXPOSURE
	47.3000	164	126	0.200	0.0003539 0.1769482

TOTAL PERCENT OF MAX EPOSURE FOR EXISING4 RADIO SYSTEM: 0.1769482

PROPOSED

TOWER HEIGHT: 120 FEET

SITE: 52 MT. PARNASSUS

Antenna Number	OPERATING FREQUENCY (MHz)	EIRP (Watts)	DISTANCE TO BASE OF TOWER (FEET)	MAXIMUM PERMISSIBLE EXPOSURE (MW/SQ-CM)	AT THE BASE OF THE TOWER
					POWER DENSITY (MW/SQ-CM) PERCENT OF MAX. EXPOSURE
1	6700.0000	9172	120	1.000	0.0004277 0.0427711
2	6700.0000	9172	120	1.000	0.0004277 0.0427711
3	6700.0000	9172	120	1.000	0.0004277 0.0427711
4	853.9125	2051	126	0.569	0.0044590 0.7836594
5	808.9125	0	126	0.539	0.0000000 0.0000000
6	773.3313	1629	127	0.515	0.0034588 0.6716028
7	803.3313	0	127	0.535	0.0000000 0.0000000
8	803.3313	0	127	0.535	0.0000000 0.0000000
9	851.0125	410	126	0.567	0.0008918 0.1572847
10	806.0125	0	126	0.537	0.0000000 0.0000000
11	47.3000	164	126	0.200	0.0003539 0.1769482
12	46.1800	164	106	0.200	0.0005000 0.2500204
13	153.8000	115	103	0.200	0.0003698 0.1849186
14	46.5800	82	106	0.200	0.0002500 0.1250102

TOTAL PERCENT OF MAX EPOSURE FOR ALL 14 RADIO SYSTEMS: 2.4777580

EXHIBIT 7



Mail Processing Center
Federal Aviation Administration
Southwest Regional Office
Obstruction Evaluation Group
2601 Meacham Boulevard
Fort Worth, TX 76193

Aeronautical Study No.
2014-ANE-1852-OE
Prior Study No.
2004-ANE-1405-OE

Issued Date: 11/04/2014

Paul Zito
State of Connecticut - DESPP
1111 Country Club Road
Middletown, CT 06492

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure: Antenna Tower Mt. Parnassus
Location: East Haddam, CT
Latitude: 41-28-13.50N NAD 83
Longitude: 72-24-39.60W
Heights: 593 feet site elevation (SE)
126 feet above ground level (AGL)
719 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

 At least 10 days prior to start of construction (7460-2, Part 1)
 X Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/lighting are accomplished on a voluntary basis, we recommend it be installed and maintained in accordance with FAA Advisory circular 70/7460-1 K Change 2.

This determination expires on 05/04/2016 unless:

- (a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
- (b) extended, revised, or terminated by the issuing office.
- (c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates , heights, frequency(ies) and power . Any changes in coordinates , heights, and frequencies or use of greater power will void this determination. Any future construction or alteration , including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

A copy of this determination will be forwarded to the Federal Communications Commission (FCC) because the structure is subject to their licensing authority.

This determination cancels and supersedes prior determinations issued for this structure.

If we can be of further assistance, please contact our office at (404) 305-7084. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2014-ANE-1852-OE.

Signature Control No: 228399432-233535347

Darin Clipper
Specialist

(DNE)

Attachment(s)
Case Description
Frequency Data
Map(s)

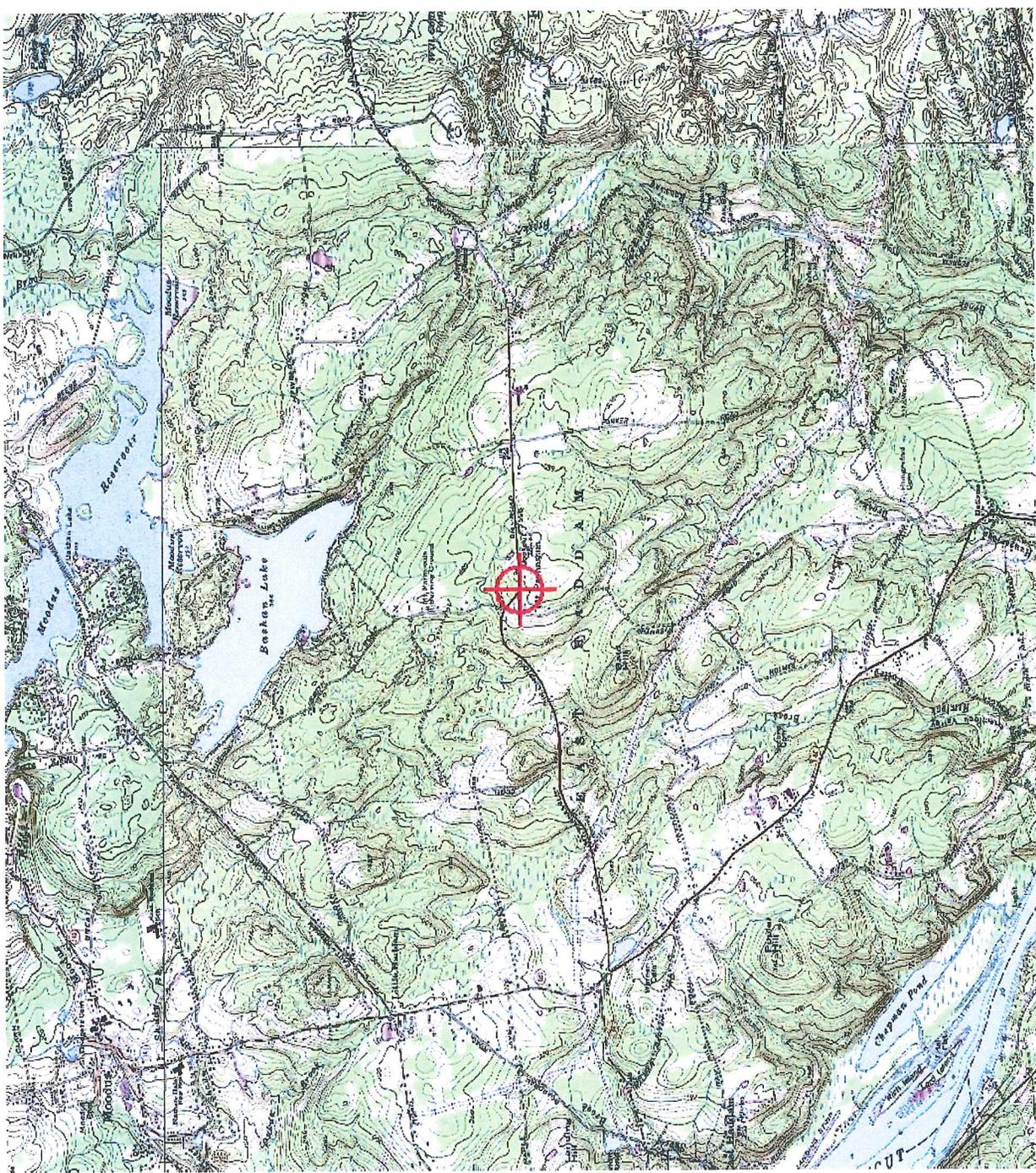
cc: FCC

Case Description for ASN 2014-ANE-1852-OE

Replacement of structurally deficient monopole with self supporting tower ? no change to height.

Frequency Data for ASN 2014-ANE-1852-OE

LOW FREQUENCY	HIGH FREQUENCY	FREQUENCY UNIT	ERP	ERP UNIT
698	806	MHz	1000	W
851	866	MHz	500	W
6400	6500	MHz	3100	W



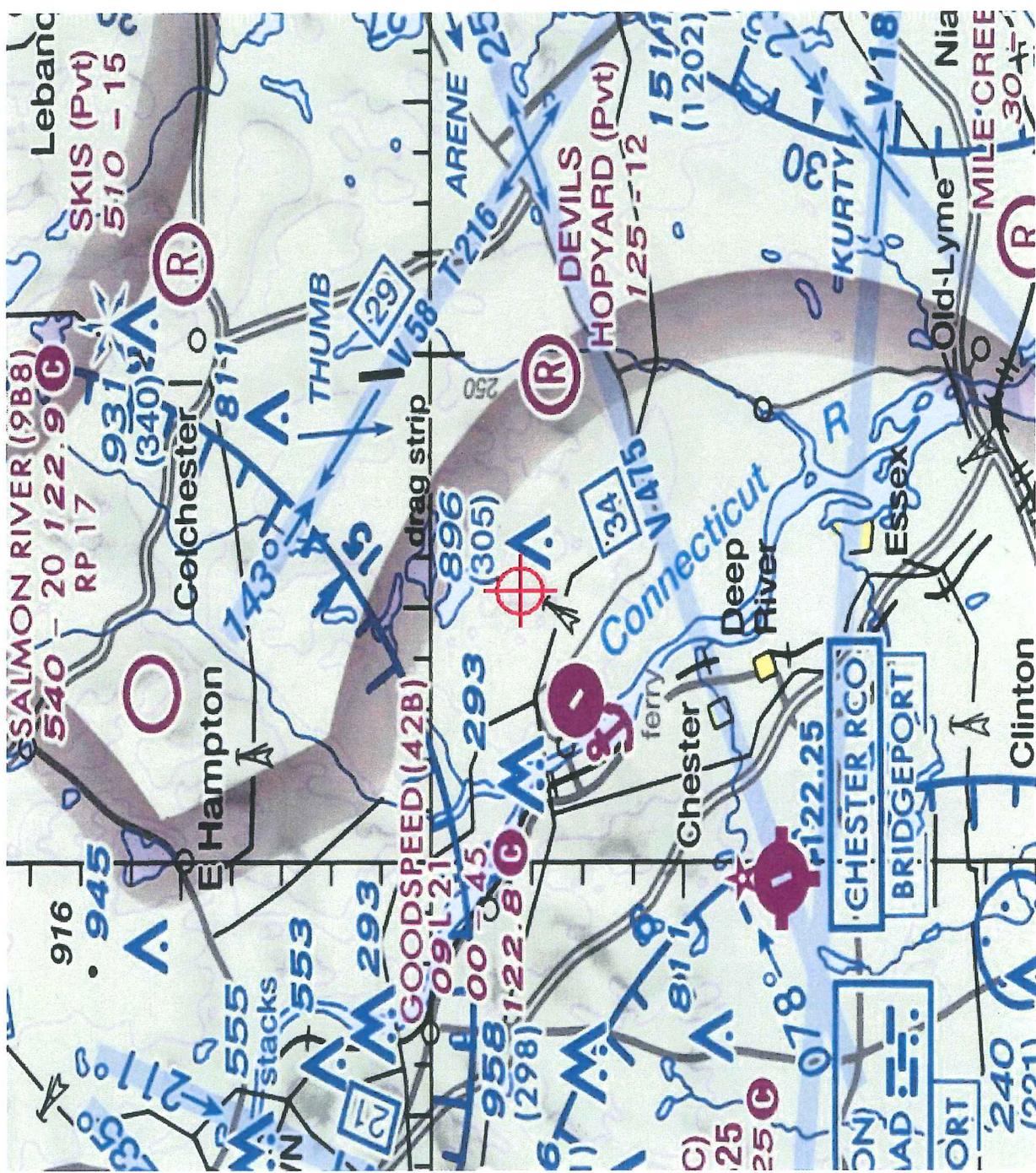


EXHIBIT 8

Mark B. Walter
First Selectman
Emmett J. Lyman
Ernest P. Malavasi
Selectmen
Office: 860-873-5021
Fax: 860-873-5025
Email: admin@easthaddam.org

Selectmen's Office
TOWN OFFICE BUILDING
EAST HADDAM
CONNECTICUT
06423



December 3, 2014

Mr. Paul Zito
Director of Telecommunications
Department of Public Safety
CTS Unit 2 South
1111 Country Club Road
Middletown, CT 06457

Dear Mr. Zito,

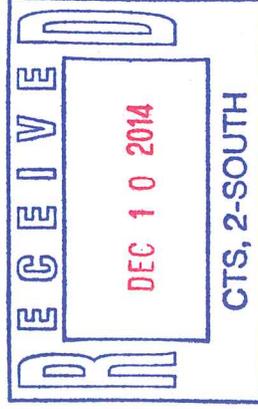
I am writing to express my support for the renovation and upgrade to the tower site located on Mount Parnassus Road in East Haddam. The Town of East Haddam has been working with Tactical Communications for several months to create a town wide radio system and this tower site plays a critical role in implementing this system. East Haddam is an extremely large town (57 sq. miles) and currently relies on an outdated low band radio system for our public safety and town government communications. The installation of an updated radio system in critical to ensure the safety of our first responders and to provide the residents of East Haddam with timely and efficient emergency response. This site on Mount Parnassus sits at a center point of the East Haddam community and will serve as the hub for several remote locations to ensure communication capabilities through all of East Haddam.

On behalf of the Town, I cannot thank you and the Department of Public Safety enough for the willingness to enter into this partnership with the Town of East Haddam. We look forward to working together and are here to assist you in any way we can.

Should you have any questions please contact my office at 860-873-5021.

Sincerely,

Mark B. Walter
First Selectman



Equal Opportunity Employer





TOWN OF EAST HADDAM EMERGENCY MANAGEMENT DEPARTMENT

P.O. Box K, 7 Main Street
Town Office Building
East Haddam, CT 06422
Tel # 860-873-5103
Fax # 860-873-5025

September 17, 2014

Paul Zito
Director of Telecommunications
Department of Public Safety
CTS Unit 2 South
1111 Country Club Road
Middletown, CT 06457

Paul,

This letter is in response to your request for antenna information for the Mount Parnassus Site. Today, the majority of our communications for Fire and EMS is done under contract through Colchester Communication Inc. (KX). As we have discussed, KX has agreed to place equipment on this site, at their cost to improve the in-town communications for our Emergency Responders. This equipment will be owned and maintained by KX.

At this time, East Haddam is in the planning stages of constructing a Town wide radio system. Our goal is to create a town wide UHF system available to all our responders and would like to plan now with antennas to support that system. Currently, the only non KX related frequency the Town uses is for our Public Works and Emergency Management Operations but we are now also licensed on 4 UHF frequencies.

As requested, the Town is seeking permission to place the following equipment on the tower:

- One low band antenna for operations on 46.18, 46.22 (KX) and 46.58 (Town)
- Two UHF directional transmit antenna (as required by our license) for use on 452.525, 452.5625, 453.500 and 453.625
- One UHF Omni receive antenna for use on 452.525, 452.5625, 453.500 and 453.625
- Required antennas for 5.8 GHz or 4.9 GHz microwave bridge to the Towns EOC and other communications sites throughout Town.

Additionally, the Town would request that the State look at the possibilities of using this tower as a receive / transmit site for DEMHS as well as possibly a I-call / I-tac Site. East Haddam is currently part of DEMHS Region 3 and has extremely limited communications capabilities with our regional office. The addition of this site would not only help East Haddam but would help the other southern towns within the region.

On behalf of the Town, I cannot thank you and your organization enough for the willingness to enter into this partnership with the Town of East Haddam. We look forward to working together and are here to assist you in anyway we can.

Should you have any questions please contact me at 860-803-0500.

Sincerely,

Craig Mansfield
Emergency Management Director

EXHIBIT 9

ADJACENT PROPERTY OWNERS

	Certified Mail #
Evelyn Comer, Irrevocable Trust 203 Mt Parnassus Road East Haddam, CT 06423	7008 1140 0004 7719 9974
John Shanaghan and R Cummings c/o Karen Clifford 176 Mt Parnassus Road East Haddam, CT 06423	7008 1140 0004 7719 9981
Richard Bantle & Gale Cummings 184 Mt Parnassus Road East Haddam, Ct 06423	7008 1140 0004 7719 9998
Maria Brown 431 Vancouver Street Pensacola Fl. 32507	7008 1140 0004 7720 0014



STATE OF CONNECTICUT
DEPARTMENT OF EMERGENCY SERVICES AND
PUBLIC PROTECTION

Bureau of Telecommunications, Records, Research and
Information Services
1111 Country Club Road
Middletown, CT 06457



December 17, 2014

Via certified mail

Evelyn Comer, Irrevocable Trust
203 Mt Parnassus Road
East Haddam, CT 06423

Re: Notice of Pending Petition
State of Connecticut Siting Council
Department of Emergency Services and Public Protection
Replace and Expand Telecommunications Tower
194 Mt. Parnassus Road, East Haddam, CT

Dear Sir or Madam:

This letter is being provided to you upon the request of the State of Connecticut Siting Council to notify you of the State of Connecticut, Department of Emergency Services and Public Protection's (DESPP) petition pending before that agency.

Specifically, DESPP has filed a petition with the Siting Council to replace a 120' monopole AGL, at 194 Mt. Parnassus Road in East Haddam, Connecticut, with a 120' AGL lattice tower. The proposed lattice tower would be constructed immediately next to the existing monopole, and the existing monopole would be removed upon completion of the lattice tower's construction. The sole purpose of this project is to accommodate and upgrade the Town of East Haddam's, DESSPP's and DOT's public safety telecommunications systems.

As an abutting property owner, the Siting Council has asked DESPP to provide you with an opportunity to learn more about this project. Should you have any questions, please feel free to contact me at 860-685-8280, or you may contact the Public Safety Director of Telecommunications, Paul Zito at 860-685-8280. The Siting Council will be considering DESPP's petition on an upcoming agenda. You may contact the Siting Council at 860-827-2935, or search their website at www.ct.gov/csc for information. You may also review the petition and/or submit written comments to the Siting Council at Ten Franklin Square, New Britain, Connecticut 06051. Written comments can also be sent to the Siting Council via fax at 860-827-2950. So that the Siting Council has adequate time to consider all inquiries, please submit your comments no later than January 17, 2015

Sincerely,

Brian M. Beritio
Planning Specialist
Department of Emergency Services and Public Protection



STATE OF CONNECTICUT
DEPARTMENT OF EMERGENCY SERVICES AND
PUBLIC PROTECTION
Bureau of Telecommunications, Records, Research and
Information Services
1111 Country Club Road
Middletown, CT 06457



December 17, 2014

Via certified mail

John Shanaghan and R Cummings
c/o Karen Clifford
176 Mt Parnassus Road
East Haddam, CT 06423

**Re: Notice of Pending Petition
State of Connecticut Siting Council
Department of Emergency Services and Public Protection
Replace and Expand Telecommunications Tower
194 Mt. Parnassus Road, East Haddam, CT**

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Sincerely,

A handwritten signature in blue ink, appearing to read "Brian M. Benito".

Brian M. Benito
Planning Specialist

Department of Emergency Services and Public Protection



STATE OF CONNECTICUT
DEPARTMENT OF EMERGENCY SERVICES AND
PUBLIC PROTECTION
Bureau of Telecommunications, Records, Research and
Information Services
1111 Country Club Road
Middletown, CT 06457



December 17, 2014

Via certified mail

Richard Bantle & Gale Cummings
184 Mt Parnassus Road
East Haddam, Ct 06423

**Re: Notice of Pending Petition
State of Connecticut Siting Council
Department of Emergency Services and Public Protection
Replace and Expand Telecommunications Tower
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Sincerely,

Brian M. Benito
Planning Specialist

Department of Emergency Services and Public Protection



STATE OF CONNECTICUT
DEPARTMENT OF EMERGENCY SERVICES AND
PUBLIC PROTECTION
Bureau of Telecommunications, Records, Research and
Information Services
1111 Country Club Road
Middletown, CT 06457



December 17, 2014

Via certified mail

Maria Brown
431 Vancouver Street
Pensacola Fl. 32507

Re: Notice of Pending Petition
State of Connecticut Siting Council
Department of Emergency Services and Public Protection
Replace and Expand Telecommunications Tower
194 Mt. Parnassus Road, East Haddam, CT

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Sincerely,

A handwritten signature in blue ink, appearing to read "Brian M. Benito".

Brian M. Benito
Planning Specialist
Department of Emergency Services and Public Protection

CERTIFICATE OF SERVICE

I do hereby certify that on the 17th day of December 2014, a copy of the foregoing letter of notice was appropriately addressed and mailed by certified mail, return receipt requested, to each of the abutting property owners on the accompanying list.

12-17-14

Date



Brian Benito
DESPP, Division of State Police
1111 Country Club Road
Middletown, CT 06457
Telephone: (860) 685-8280

*Subscribed and sworn to me this
17th day of December 2014.*

JONNA R. BINNS
NOTARY PUBLIC
State of Connecticut
My Commission Expires
June 30, 2017

