



**STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL**

RE: APPLICATION BY T-MOBILE
NORTHEAST LLC FOR A
CERTIFICATE OF ENVIRONMENTAL
COMPATIBILITY AND PUBLIC NEED
FOR A TELECOMMUNICATIONS FACILITY
AT MOOSE HILL ROAD IN THE
TOWN OF GUILFORD, CONNECTICUT

DOCKET NO. _____

Date: May 12, 2011

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ENVIRONMENTAL COMPATIBILITY AND PUBLIC NEED**

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Pursuant to General Statutes § 16-50g *et seq.* and § 16-50j-1 *et seq.* of the Regulations of Connecticut State Agencies, T-Mobile Northeast LLC (“T-Mobile”) submits this Application for a Certificate of Environmental Compatibility and Public Need (“Certificate”) for the construction, maintenance and operation of a wireless telecommunications facility (“Facility”) at Moose Hill Road in the Town of Guilford (“Application”).

I. EXECUTIVE SUMMARY

T-Mobile seeks to construct, maintain and operate the Facility on property known as Moose Hill Road in Guilford (“Property”). The Facility would provide needed coverage to Route 146, Moose Hill Road, Old Quarry Road and Corncrib Hill Road, south of Interstate 95, as well as the surrounding area and the Amtrak rail line that passes through the area. The Facility would consist of a 110 foot stealth monopole, with antennas flush mounted at a centerline of approximately 107’9” above grade level (“AGL”), and related equipment located nearby on a concrete equipment pad. The

monopole would be painted medium gray-brown to match the color of the bark of the surrounding trees.

The Facility would sit within a 3,000 square foot area leased by T-Mobile, located in the southwestern portion of the Property, which is an approximately 163 acre parcel. An 8 foot high chain link fence would secure the equipment at the Facility. Vehicle access would be along an existing gravel access, which extends from Moose Hill Road. T-Mobile would improve the existing access with some grading, additional gravel and the replacement of a reinforced concrete pipe (culvert) through which a stream passes.

This Application includes a copy of the Council's Community Antenna Television and Telecommunication Facilities Application Guide with references to this Application, attached as Exhibit A. The Application also includes the lease, survey-based plans for the proposed Facility and a topography map, attached hereto as Exhibits B, C and D, respectively, and other information detailing the proposed Facility. The reports and supporting documentation included in this Application contain the relevant site specific information required by statute and the Council's regulations.

II. BACKGROUND INFORMATION

A. The Applicant

T-Mobile is a limited liability company, organized under the laws of Delaware, with a Connecticut office at 35 Griffin Road South, Bloomfield, Connecticut 06002. The company and its affiliated entities are licensed by the Federal Communications Commission ("FCC") to construct and operate a personal wireless services system in Connecticut, which has been interpreted as a "cellular system" within the meaning of

General Statutes § 16-50i (a) (6). T-Mobile does not conduct any other business in the State of Connecticut other than the provision of cellular services under FCC rules and regulations. T-Mobile is committed to use the proposed Facility as the anchor tenant. Communications regarding the Application should be to T-Mobile's attorneys as follows:

Cohen and Wolf, P.C.
1115 Broad Street
Bridgeport, CT 06604
Telephone: (203) 368-0211
Attention: Julie D. Kohler, Esq.
Jesse A. Langer, Esq.

B. Application Fee

The estimated construction cost for the Facility is \$185,000.00. In accordance with § 16-50v-1a (b) of the Regulations of Connecticut State Agencies, a check made payable to the Council in the amount of \$1,250.00 accompanies this Application.

C. Compliance with General Statute § 16-50/ (c)

T-Mobile is not engaged in generating electric power in the State of Connecticut; thus, the proposed Facility is not subject to General Statutes § 16-50r. The proposed Facility has not been identified in any annual forecast reports and, therefore, is not subject to General Statute § 16-50/ (c).

D. The Initial Configuration of the Proposed Facility

Initially, T-Mobile proposed a 140 foot monopole with antennas mounted on T-arms with a centerline of approximately 137'9" AGL ("Initial Configuration"). Please see the Technical Report included in the Bulk Filing submitted to the Council contemporaneously with this Application. T-Mobile proposed the Initial Configuration because it was necessary to achieve the coverage objective.

Thereafter, Cellco Partnership d.b.a. Verizon Wireless (“Verizon”) submitted a technical report to the Town of Branford regarding a telecommunications facility proposed at 723 Leetes Island Road, Branford (“Medlyn Farm Facility”). The Medlyn Farm Facility afforded T-Mobile the opportunity to alleviate a coverage gap in that area of Branford. T-Mobile secured a location on the proposed Medlyn Farm Facility at 80 feet AGL. On or about December 10, 2010, Verizon filed with the Council an Application for Certificate of Environmental Compatibility and Public Need regarding the Medlyn Farm Facility. That application is pending before the Council as Docket 413.

T-Mobile would not require a height of 140 feet AGL for the proposed Facility in the Town of Guilford (“Guilford”) should the Council approve the Medlyn Farm Facility, as proposed by Verizon, with T-Mobile situated at 80 feet AGL. The Facility would be adjacent to the Medlyn Farm Facility. With the Medlyn Farm Facility operational, T-Mobile would be able to achieve its coverage objective in the Town with a height of approximately 110 feet AGL.

III. SERVICE AND NOTICE REQUIRED BY GENERAL STATUTE § 16-50/ (b)

Pursuant to General Statutes § 16-50/ (b), T-Mobile sent copies of this Application to municipal, regional, State, and Federal officials. A certificate of service, including a list of the parties served with a copy of the Application, is attached hereto as Exhibit E. Pursuant to § 16-50/ (b), T-Mobile caused notice of its intent to submit this Application to be published on two occasions in the *New Haven Register*. Copies of the legal notices and the publisher’s certificates of publication are attached hereto as Exhibit F. In compliance with § 16-50/ (b), notices were sent to each person appearing

of record as the owner of real property abutting the Property. Certification of such notice, a sample notice letter, and the list of property owners to whom the notice was mailed are included in Exhibit G.

IV. STATEMENT OF NEED AND BENEFIT

A. Statement of Need

In amending the Communications Act of 1934 with the Telecommunications Act of 1996, the United States Congress recognized the important public need for high quality telecommunications services throughout the United States. The purpose of the Telecommunications Act of 1996 was to “provide for a competitive, deregulatory national policy framework designed to accelerate rapidly private sector deployment of advanced telecommunications and information technologies to all Americans.” H.R. Conf. Rep. No. 104-458, 206, 104th Cong., Sess. 1 (1996). The Telecommunications Act of 1996 expressly preserved State and/or local land use authority over wireless facilities, placed several requirements and legal limitations on the exercise of that authority, and preempted State or local regulatory oversight of radio frequency emissions as set forth in 47 U.S.C. § 332(c)(7). In doing so, Congress sought a balance between the public interest in deployment of wireless services and legitimate areas of State and/or local regulatory control over wireless infrastructure.

The Facility is an integral component of T-Mobile’s wireless network in the Town. There is a gap in coverage in this area of the Town, specifically along Route 146, Moose Hill Road, Old Quarry Road and Corncrib Hill Road, south of Interstate 95, as well as the surrounding area and the Amtrak Rail line that passes through the area.

The Facility, in conjunction with other existing and future facilities in the Town and surrounding towns, is necessary for T-Mobile to provide wireless services to people living in and traveling through this area of the State.

The propagation plots, attached as Exhibit H, depict T-Mobile's need for the Facility. Based upon the location of the Facility and the current lack of coverage in this area, T-Mobile cannot readily predict when the Facility might reach maximum capacity.

B. Statement of Benefits

T-Mobile is a leading provider of advanced wireless voice and data services throughout the United States. T-Mobile has provided such services in Connecticut since the mid-1990s and remains actively involved in the deployment of state-of-the-art wireless services. In recent years, the public's demand for traditional cellular telephone services has evolved to include expectations of seamless service, wherever the public travels, and readily available access to the internet as well as the ability to send and receive voice, text, image and video through their wireless devices continuously. The ever increasing availability and enhanced sophistication of wireless services has led the public to use their wireless devices as their primary form of communication for both personal and business needs.

To help provide the benefits of wireless technologies to all Americans, Congress enacted the Wireless Communications and Public Safety Act of 1999 ("911 Act"). The purpose of this legislation was to promote public safety through the deployment of a seamless, nationwide emergency communications infrastructure that includes wireless communications services. In enacting the 911 Act, Congress recognized that networks capable of rapid, efficient deployment of emergency services would enable faster

delivery of emergency care, resulting in reduced fatalities and severity of injuries. With each year since the passage of the 911 Act, additional anecdotal evidence supports the public safety value of improved wireless communications in aiding lost, ill or injured individuals such as motorists, hikers and boaters.

As an outgrowth of the 911 Act, the FCC mandated that wireless carriers provide enhanced 911 services (“E911”) as part of their communications networks. These services ultimately allow 911 public safety dispatchers to identify a wireless caller’s location within several hundred feet. T-Mobile has deployed and continues to deploy “Time Difference of Arrival” network technology to comply with the FCC E911 requirements. The Facility would become an integral component of T-Mobile’s E911 network in this area of the state. As other wireless carriers expand their service in the Town through the Facility, E911 services would experience additional improvement.

C. Technological Alternatives

The FCC licenses granted to T-Mobile authorize it to provide cellular and Personal Communication Services in this area of the State through deployment of a network of wireless transmitting sites. The Facility is a necessary component of T-Mobile’s wireless network. The Facility would also allow other wireless carriers to provide services in this area.

Repeaters, microcell transmitters, distributed antenna systems and other types of transmitting technologies are not a practicable or feasible means to providing service within the sizeable coverage gap in the areas surrounding the Property. There are no equally effective technological alternatives to construction of a new telecommunications facility for providing reliable personal wireless services in this area of Connecticut.

V. SITE SELECTION AND TOWER SHARING

A. Site Selection

T-Mobile selects a site in an area where there is an existing need or problem regarding coverage or capacity within T-Mobile's network. The site selected is the geographical location where the installation of a telecommunications facility would likely address the identified coverage or capacity issue. T-Mobile conducts a site search with the goal of finding a site that would resolve the coverage or capacity issue and minimize any potential environmental impact.

T-Mobile conducted a site search and identified the Property as the best possible location to resolve the existing coverage concerns. The nearest telecommunication facilities are already in use by T-Mobile. There are no other facilities or structures which T-Mobile could utilize to alleviate the existing coverage gap.

The proposed Facility would allow T-Mobile to provide coverage while at the same time minimize any environmental impacts. The site of the proposed Facility:

- Would be situated on a large, undeveloped 163 acre parcel;
- Would be shielded by existing mature vegetation;
- Would be located approximately 1,000 feet north of the nearest coastal resource and, therefore, the Facility would not adversely impact any coastal resource;
- Would not adversely impact any wetland system. Although the proposed access to the Facility would result in a minor wetland disturbance, T-Mobile would implement appropriate mitigation measures to avoid an adverse impact to any wetland system. The Facility compound would be located 115 feet from any wetland; and
- Would require the removal of only two trees associated with the improvement of the existing gravel access.

None of the other sites reviewed, or any other known and available sites, within the coverage objective, would provide adequate coverage and also allow for the same level of mitigation of environmental impacts as does the proposed site for the Facility.

The map of facilities within a four mile radius, along with the site selection narrative and map of rejected sites, Exhibits I and J, provide a thorough explanation of T-Mobile's methodology for conducting site searches, the actual search for potential sites in the Town, and depict the locations reviewed during T-Mobile's search and the reasons for elimination from consideration of all but the Property.

B. Tower Sharing

To promote the sharing of wireless facilities in the Town, T-Mobile proposes to construct a facility that can accommodate T-Mobile and 3 other wireless carriers. The Facility could also accommodate municipal public safety antennas at no cost to the Town. Details of the design are included in Exhibit C.

Materials provided by T-Mobile to the Town articulate T-Mobile's willingness to provide, free of charge, space on the proposed monopole for municipal public safety communications antennas. T-Mobile communicated with the Town's Fire Chief, Charles E. Herrschaft, Jr., about locating the Town's public safety antennas on the Facility. In a letter dated June 30, 2010, the Fire Chief strongly supported the Facility as it would provide "critical radio coverage" for the Town's various public safety agencies. The Fire Chief described the existing public safety radio coverage as "seriously lacking in this area [of the Town]." The Fire Chief confirmed that the Facility would still benefit the Town at the reduced height of 110 feet AGL. See Exhibit R.

VI. FACILITY DESIGN

T-Mobile would lease a 3,000 square foot area within the Property, which is an approximately 163 acre parcel. The Facility compound would be 2,500 square feet, which would be secured and concealed by an 8 foot high chain link fence. The Facility would consist of a 110 foot stealth monopole structure. T-Mobile would install its antennas flush mounted to the Facility at 107'9" AGL and place its equipment cabinets nearby. The monopole would be painted medium gray-brown to match the color of the trees located in the surrounding areas. The monopole and equipment compound are designed to accommodate the facilities of all wireless carriers active in the Connecticut marketplace.

Vehicular access to the Facility would extend from Moose Hill Road over an existing gravel access. T-Mobile would improve the access so that it would consist of a continuous 12 foot wide gravel access. T-Mobile would extend utility service over-head from an existing utility demarcation on Moose Hill Road. Exhibit C contains plans, descriptions and other relevant information for the Facility. Exhibit K is a wetlands inspection report and statement of compliance as well as coastal consistency analysis. Exhibit L is a listing of residential buildings within 1000 feet of the Facility. Exhibit M is a tree inventory. In summary, those exhibits reveal the following:

- The Facility would be situated on a large, undeveloped 163 acre parcel;
- The Facility would be shielded by existing mature vegetation;
- The Facility would be located approximately 1,000 feet north of the nearest coastal resource and, therefore, the Facility would not adversely impact any coastal resource;

- The Facility compound would not adversely impact any wetland system. Although the proposed access to the Facility would result in a minor wetland disturbance, T-Mobile would implement appropriate mitigation measures to avoid an adverse impact to any wetland system; and
- The Facility would require the removal of two trees associated with the improvement of the existing gravel access.

VII. ENVIRONMENTAL COMPATIBILITY

Pursuant to General Statutes § 16-50p, the Council is required to find and to determine as part of the Application process any probable environmental impact of the Facility on the natural environment, ecological balance, public health and safety, scenic, historic and recreational values, forest and parks, air and water purity and fish and wildlife. As demonstrated in this Application and the accompanying attachments and documentation, the Facility would not have a significant adverse environmental impact.

A. Visual Assessment

The visual impact of the Facility would vary from different locations around the Facility depending upon factors such as vegetation, topography, distance from the Facility, and the location of structures around the Facility. T-Mobile retained visibility experts, Clough Harbour & Associates (“CHA”), to prepare a Visual Analysis Report and a computer-based predictive viewshed model, which has proven to depict accurately the potential impact of telecommunications facilities from surrounding views.

As part of its study, on January 21, 2010, CHA conducted a balloon float at 140 feet AGL to evaluate the potential visual impact, if any, associated with the Facility’s Initial Configuration. On July 26, 2010, CHA conducted a second balloon float at the request of the State Historic Preservation Office (“SHPO”) to assess the potential visual impact of the Facility’s Initial Configuration on areas of historic interest. On July 27,

2010, CHA conducted a third balloon float at the request of the Guilford Land Conservation Trust (“Land Trust”) to evaluate the potential visual impact of the Facility’s Initial Configuration on the Westwoods Trail system.

On February 16, 2011, SHPO issued a letter indicating that the Facility would not have an adverse impact on the State’s historic resources if (1) the monopole is painted medium gray-brown to blend with the bark color of adjacent trees; (2) the antennas are installed with flush mounts; and (3) the monopole does not exceed 110 feet.¹ Based upon SHPO’s assessment, CHA re-assessed the potential visual impact of the proposed Facility at a height of 110 feet AGL and issued a revised Visual Analysis Report and Viewshed.

With the balloon floats and the viewshed analysis, CHA determined the visual impact of the Facility, accounting for local, state and federal historic and recreational sites, within a two-mile radius of the Facility (“Study Area”). Exhibit N contains a Visual Analysis Report at 110 feet AGL and also includes affidavits regarding each balloon float. The earlier Visual Analysis Report at 140 feet AGL is included in the bulk filing.

The topography and vegetation contained at the Property and within the Study Area serve to minimize the potential visual impact of the Facility. The existing vegetation in the area of the Property has an average estimated height of 65 feet. This vegetation sits on gently rolling hills that range in ground elevation from approximately 50 feet above mean sea level (“AMSL”) to approximately 150 feet AMSL. The tree canopy covers nearly 3,420 acres of the 8,053 acre Study Area. Additionally, watercourses occupy approximately 2,180 acres of the Study Area.

¹ The SHPO also stated that the Property should be returned to its “historically appropriate appearance and materials” should the Facility remain “not in use” for six consecutive months.” See Exhibit O.

Based on the viewshed analysis contained in Exhibit N, areas from which the Facility would be at least partially visible year round comprise approximately 1,072.7 acres within the 8,054 acre Study Area, most of which are distant open water views on the Long Island Sound. Those partial year-round views from on-land locations are primarily within 0.66 miles of the proposed Facility. The Facility would not be visible year round from Route 146.

Areas of seasonal visibility would comprise of approximately 54.2 additional acres (0.7 percent) of the Study Area, primarily within the immediate vicinity of the proposed Facility. The areas of seasonal visibility are generally within close proximity of the proposed Facility (within 0.66 miles). The Facility would be visible seasonally from select portions of Route 146; however, the photo-simulations demonstrate that most of those views are of the upper portions of the Facility, at a distance and through existing mature vegetation.

Additionally, the proposed Facility would not impact the Westwoods Trail system. At 110 feet AGL, the Facility would not be visible from any of the points of interest along the trail system. See Exhibits Q and R.

The Visual Resources Evaluation demonstrates that the Facility would be as inconspicuous as possible, particularly beyond the immediate vicinity of the Property. The Facility would be designed with a stealth configuration to limit the potential visual impact. Accordingly, the proposed Facility would not result in an unacceptable adverse visual impact. Weather permitting, T-Mobile will raise a balloon with a diameter of at least three (3) feet at the Facility on the day of the Council's first hearing session on this Application, or at a time otherwise specified by the Council.

B. Solicitation of State Agency Comments

T-Mobile submitted a request for review and comment for the Facility to the SHPO and consulted with the Connecticut Department of Environmental Protection (“DEP”). This consultation confirmed that the Facility would not have a detrimental impact on the environment.

As discussed in Part VII.A, *supra*, T-Mobile conducted an additional balloon float at the request of the SHPO so the SHPO could assess the potential impact of the proposed Facility on areas of historic interest. The SHPO issued an opinion that the proposed Facility would not impact areas of historic significance if the height of the Facility is reduced from 140 feet AGL to 110 feet AGL, the antennas are flush mounted and the monopole is painted medium gray-brown to match the bark of adjacent trees. T-Mobile would alter the configuration in accordance with the SHPO’s assessment, *assuming that the Council approves the Medlyn Farm Facility with T-Mobile situated at the height of 80 feet AGL on that facility*. T-Mobile performed an additional viewshed assessment to confirm the potential visual impact of the proposed Facility at the reduced height of 110 feet AGL.

T-Mobile also consulted with the DEP to determine whether the proposed Facility would have an adverse impact on the environment. The DEP concluded that the proposed Facility would not adversely impact any endangered or threatened species. Ultimately, T-Mobile’s wetlands analysis and assessment under the National Environmental Policy Act of 1969 (“NEPA”) demonstrate that the Facility would not adversely impact any wetland or any endangered or threatened species. See Part VII.D, *infra*, regarding the lack of adverse impact on endangered or threatened species.

See Part VII.D and VIII.D, *infra*, regarding the lack of adverse impact on the wetlands located on the Property. Copies of the SHPO and DEP correspondence, as well as the DEP diversity database mapping are attached hereto as Exhibit O.

C. MPE Limits/Power Density Analysis

In August 1996, the Federal Communications Commission (“FCC”) adopted a standard for exposure to Radio Frequency (“RF”) emissions from telecommunications facilities such as the proposed Facility. To ensure compliance with applicable standards, T-Mobile performed maximum power density calculations for the Facility assuming that the antennas were pointed at the base of the tower and all channels were operating simultaneously. The resulting power density for T-Mobile’s operations would be approximately 9.5137 percent of the applicable FCC standards. A copy of the power density calculations and report for the Facility is attached hereto as Exhibit P.

D. NEPA Assessment

T-Mobile retained EBI Consulting (“EBI”) to evaluate the Facility in accordance with the FCC’s regulations implementing the NEPA. A copy of the NEPA Summary Report, with Native American Tribal correspondence, is attached hereto as Exhibit Q. The remaining portions of the NEPA evaluation are included in the Bulk Filing.

1. The Facility Would Not Adversely Impact Wildlife.

The site of the Facility is not designated as a wilderness area and it is not located in any areas identified as a wildlife preserve or in a U.S. Fish and Wildlife Service National Wildlife Refuge. The Facility would not affect threatened or endangered species or designated critical habitats. The DEP reported that the Facility may be

located near or within the habitat of an endangered species, the Eastern Box Turtle.² T-Mobile retained experts to conduct a survey of the Eastern Box Turtle population in and around the site of the Facility. The survey did not detect any turtles within the vicinity of the proposed Facility. The DEP concurred with the results of the survey and stated that T-Mobile should employ standard protocols for the protection of wetlands during the course of construction and that all silt fencing should be removed after soils are stable to avoid restricting reptile and amphibian movement between uplands and wetlands. The DEP also provided some guidance to follow if construction should occur between April 1 and November 1, which is the turtles' active period.³ See Exhibits K and Q.

Moreover, the United States Fish and Wildlife Service ("USFW") has adopted interim guidelines for telecommunications facilities ("Guidelines") to minimize the impact of such facilities on migratory birds. These guidelines are not mandatory – they are suggested measures while the USFW studies the impact of telecommunications facilities on migratory birds. The Facility would comport with the Guidelines as the Facility would be well under 200 feet, unlit and without guy wires.

² On January 28, 2010, the DEP noted that two other endangered species may reside within the vicinity of the Facility: (1) the black rail and (2) maritime sunflower borer moth. The black rail nests along inland tidal creeks and marshes, in salt marshes, salt hay meadows or along edges of sedges or marsh grass flats from May to August. The maritime sunflower borer moth resides along the edges of salt marshes and is associated with the host plant *Hilleantheous*. The site of the proposed Facility does not consist of the habitats needed for the black rail or the maritime sunflower borer moth and, accordingly, the DEP stated that the proposed Facility would not impact these species adversely.

³ The DEP stated that T-Mobile should take the following steps: (1) apprise the construction crew of the turtles and instruct the crew to search the site each day prior to construction; (2) move any turtles found at the site away from the construction activities; (3) take all precautions to avoid degradation to wetland habitats including any wet meadows and seasonal pools; (4) perform any work conducted in the aforementioned habitats during the early morning or evening hours occur with special care not to harm basking or foraging turtles; and (5) refrain from parking heavy machinery or vehicles in any habitat. See Exhibits K and Q.

No National Parks, National Forests, National Parkways or Scenic Rivers, State Forest, State Designated Scenic Rivers or State Gamelands are located in the vicinity of the site of the Facility. In addition, the Facility would not be located within a floodplain.

2. The Facility Would Not Adversely Impact Any Wetlands.

In conjunction with the NEPA evaluation, T-Mobile retained Vanasse Hangen Brustlin, Inc. (“VHB”) to identify whether any wetland systems are located near the proposed Facility. There is a narrow forested wetland and associated intermittent watercourse located in the southwestern portion of the Property in the vicinity of the proposed Facility. The existing gravel drive, which would serve as the access to the Facility, crosses over the wetland system at one intersection. The intermittent watercourse flows through the wetlands in a southerly direction through an 18 inch culvert under the existing gravel driveway. The Facility compound would be located approximately 115 feet east of the wetland system at the nearest location (wetland flag 4). Accordingly, the Facility compound would not impact the wetland system.⁴

T-Mobile, however, would have to extend the culvert to accommodate the improvements T-Mobile would make to the existing access. Specifically, T-Mobile would widen the access so that it would maintain a width of 12 feet. The improvement to the culvert would result in approximately 150 square feet of direct impact to the wetland system and approximately 205 square feet of temporary impact associated with the installation of erosion control measures and the clearing mature vegetation.

⁴ T-Mobile previously retained Soil Science and Environmental Services, Inc. (“SS&ES”) to perform a wetland assessment and a coastal consistency review. VHB has replaced SS&ES with respect to this Application. The initial reports produced by SS&ES are also included in Exhibit O.

To minimize wetland impacts, VHB recommends that T-Mobile implement the following mitigation measures: (1) inspections by a qualified wetland specialist; (2) restore wetland areas temporarily impacted by the access improvements with a native New England wetland seed mix and native wetland shrubs; and (3) restore upland areas not permanently stabilized by the culvert with a native New England erosion control/conservation seed mix. The seed mix provides a permanent cover of grasses, forbs, wildflowers, legumes and grasses which, in turn, provides good erosion control and wildlife habitat value. These mitigation measures would not require maintenance. Although a portion of the Facility's access would result in a minor disturbance to a wetland system, that disturbance would not result in an adverse impact to that system with the implementation of these mitigation measures.⁵

There are no reasonable alternatives to the proposed access improvements and wetland mitigation efforts. Alternative access routes would require T-Mobile to install an entirely new crossing over the wetland system, which would result in significantly greater impact to that wetland system.

Finally, the proposed Facility, specifically the access improvements, would qualify as a Category 1 project under the Department of the Army Programmatic General Permit requirements. The proposed Facility would result in minimal wetland disturbance well within the requirements for a Category I project (less than 5,000 square feet of disturbance). Additionally, the proposed improved culvert would adhere to the measurements necessary for driveway crossings using bridges or open-bottom

⁵ EBI recommended that T-Mobile obtain an environmental assessment from the FCC regarding the impact of the Facility's proposed access on the wetland system. T-Mobile has initiated that process. T-Mobile does not anticipate any adverse environmental impact. See Exhibits K, O and Q.

structures. Because the Facility would qualify as a Category 1 project, VHB concluded that the Facility would not result in an adverse impact to any wetland system.⁶

3. The Facility Would Not Adversely Impact Any Cultural or Historic Resources.

The Facility would not affect any sites, buildings, structures or objects significant to American history, architecture, culture, archeology or engineering. On February 16, 2011, SHPO issued a letter indicating that the Facility would not have an adverse impact on the State's historic resources if (1) the monopole is painted medium gray-brown to blend with the bark color of nearby trees; (2) the antennas are installed with flush mounts; and (3) the monopole does not exceed 110 feet.

EBI also consulted with two Native American Indian tribes – the Mashantucket Pequot Tribe and the Narragansett Indian Tribe – because they might have interests impacted by the proposed Facility. Both Tribes confirmed that they do not have any interests that would be impacted by the Facility. See Exhibit Q.

4. The Facility Would Not Adversely Impact Any Coastal Resources.

Finally, VHB analyzed whether the Facility meets the requirements of the Connecticut Coastal Management Act, General Statutes § 22a-90 et seq. ("CMA"). Although located within the "coastal boundary," there are no "coastal resources" on the Property. The nearest "coastal resources" are tidal wetlands located approximately 1,000 feet south of the proposed Facility. Accordingly, the Facility would not impact any "coastal resources" and would comply with the requirements of the CMA.

⁶ The proposed Facility would comport with the existing General Permit requirements, which expire on May 21, 2011. VHB anticipates that the Facility would comply with the new requirements, which will be issued prior to May 21, 2011. VHB will issue an updated review upon the publication of the new requirements.

E. Operation of the Facility

The Facility would be unmanned, requiring infrequent monthly maintenance visits by each carrier that would last approximately 1 hour. T-Mobile's equipment at the Facility would be monitored 24 hours a day, 7 days a week from a remote location. The Facility would not require a water supply or wastewater utilities. No outdoor storage or solid waste receptacles would be needed, and the Facility would not create or emit any smoke, gas, dust or other air contaminants, noise, odors or vibrations. The construction and operation of the proposed Facility would have no significant impact on air, water, or noise quality.

VIII. CONSISTENCY WITH THE GUILFORD LAND USE REGULATIONS

The Facility would be consistent with Guilford's Zoning and Wetland Regulations and Plan of Conservation and Development. This section includes an analysis of the Facility under the Town's land use regulations, as well as a description of the planned and existing uses of the Property.

A. Guilford Plan of Development

The Guilford Plan of Conservation and Development ("Plan"), a copy of which is included in the bulk filing, was adopted in November, 2002. The Plan does not address wireless telecommunications. Nevertheless, the Plan recognizes the need to upgrade and expand municipal services, including emergency services. See Bulk Filing, Plan of Conservation and Development, p. 50. The Facility could accommodate municipal emergency services antennas. In a letter dated June 30, 2010, the Fire Chief strongly supported the Facility as it would provide "critical radio coverage" for the Town's various

public safety agencies. The Fire Chief described the existing public safety radio coverage as “seriously lacking in this area [of the Town].” See Exhibit R. Additionally, the Facility would provide enhanced wireless services to those living, working and traveling through the area, which would also improve 911 related services.

B. Guilford Zoning Regulations

Section 273-95 of the Guilford Zoning Regulations addresses telecommunications facilities. See Bulk Filing, Guilford Zoning Regs. art. XII, § 273-95.

The Facility comports with a majority of these requirements set forth in the Regulations.

- The proposed Facility is necessary to T-Mobile’s wireless network and there are no existing structures or telecommunications facilities suitable for co-location that would address the coverage objective. Because of the absence of existing structures and the nature of the coverage objective, the Facility must be located in a residential district. See Guilford Zoning Regs. art. XII, § 273-95 (D)(2); see *also* Parts IV and V, *supra*, of this Application.
- The stealth design and location of the Facility would minimize the visual effect of the proposed Facility. T-Mobile has also consulted with the SHPO and the Scenic Road Advisory Committee about the height and stealth design of the Facility. See Guilford Zoning Regs. art. XII, § 273-95 (D)(3); see *also* Part VII, *supra*, of this Application.
- The Facility would encourage co-location as it would be engineered to accommodate up to 3 other wireless carriers and also provide space for municipal emergency services antennas at no charge to the Town. See Guilford Zoning Regs. art. XII, § 273-95 (D)(4); see *also* Parts V and VI, *supra*, and IX, *infra*, of this Application.
- The Facility would incorporate the following stealth measures: (1) the antennas would be secured with flush mounts and (2) the monopole would be painted medium gray-brown to match the color of the trees in the area. The Facility would be located in an area where the existing mature vegetation would provide screening. See Guilford Zoning Regs. art. XII, § 273-95 (D)(5); see *also* Parts V and VI, *supra*, of this Application.
- The monopole would not have any lighting. As proposed, the Facility would not require lighting under the regulations promulgated by the Federal Aviation Administration. See Guilford Zoning Regs. art. XII, § 273-95 (D)(6); see *also* Part IX, *infra*, of this Application.

- The Facility would not have any commercial advertising or signage. See Guilford Zoning Regs. art. XII, § 273-95 (D)(7); see *also* Part VI, *supra*, of this Application.
- The Facility is designed at 110 feet because this is the minimum height necessary to achieve the coverage objective *assuming that the Council approves the Medlyn Farm Facility*. See Guilford Zoning Regs. art. XII, § 273-95 (D)(8); see *also* Part IV, *supra*, of this Application.
- The Facility would meet the setback requirements for structures in an R-8 zone. See Guilford Zoning Regs. art. XII, § 273-95 (D)(9) and art. V, § 273-25; see *also* Part VI, *supra*, of this Application.

C. Planned and Existing Land Uses

The Property is currently undeveloped. T-Mobile is not aware of any future development plans regarding the Property.

D. Guilford Inland Wetlands and Watercourses Regulations

The Guilford Inland Wetlands and Watercourses Regulations (“Wetlands Regulations”) regulate certain activities conducted in or adjacent to “wetlands” or “watercourses” as defined therein. Regulated activities include “any operation within, or use of, a wetland or watercourse involving the removal or deposition of material or any obstruction, construction, alteration or pollution of such wetlands or watercourses. . . . Furthermore, any clearing, grubbing, filling, grading, paving, excavating, constructing, depositing or removing of material and discharging of storm water within an upland review area is a regulated activity.” See Bulk Filing, Inland Wetlands and Watercourses Regulations, art. 2, § 271-6. The Wetlands Regulations define an “upland review area” as “[a]n area within one [hundred] (100) feet measured horizontally from the boundary of all wetlands or watercourses.” See *id.*

As discussed in Part VII.D, *supra*, T-Mobile retained VHB to determine whether there are any wetland systems located near the proposed Facility. The proposed

Facility compound would be located approximately 115 feet from the closest wetland system and, therefore, would not impact any wetland system. T-Mobile, however, would have to extend the culvert under the existing access, which would result in a small disturbance to the wetland system. Although a portion of the Facility's access would result in a minor disturbance to a wetland system, that disturbance would not result in an adverse impact to that system. See Exhibits K and Q.

IX. CONSULTATIONS WITH LOCAL, STATE AND FEDERAL OFFICIALS

A. Local Consultations

General Statutes § 16-50/ (e) requires an applicant to consult with the local municipality in which a proposed facility may be located and with any adjoining municipality having a boundary of 2,500 feet from the proposed facility concerning the proposed and alternate sites of the facility. On December 24, 2009, T-Mobile submitted a technical report to the First Selectman, the Honorable Joseph Mazza, regarding the Facility. The technical report, a copy of which is being bulk filed with this Application, included specifics about the Property, the Facility, the site selection process and the environmental effects, if any, of the proposed Facility. A copy of the cover letter submitted with the technical report is attached as Exhibit R.

The Town did not request that T-Mobile appear at any local hearing or public forum. On January 21, 2010, T-Mobile's representatives met with the First Selectman; the Town Planner, George Kral; a representative of the Town's Emergency Services; and other staff members. The Town was receptive to the proposed Facility and made several suggestions. The Town representatives noted that there was a historic district,

at least one home on the national historic register, and a scenic roadway in the area of the proposed Facility. They suggested that T-Mobile contact the local historic groups, specifically the Land Trust and the Guilford Preservation Alliance.

T-Mobile communicated with both groups and the Land Trust requested a meeting. On June 7, 2010, T-Mobile representatives met with representatives of the Land Trust and discussed the proposed Facility. The Land Trust representatives expressed some concerns over the potential visibility of the Facility from certain points of interest along the Westwoods Trail system, located to the north and northeast of the Property. On July 27, 2010, T-Mobile directed CHA to conduct a balloon float at 140 feet AGL and invited the Land Trust representatives to observe the balloon float from the Westwoods Trail system. See Exhibit R.

Additionally, T-Mobile consulted with the Scenic Road Advisory Committee ("Committee") at the request of the SHPO. On September 23, 2010, representatives of T-Mobile met with the Committee to discuss the proposed Facility. On November 23, 2010, the Committee informed the SHPO that it had concerns with the visual impact of the Facility on Route 146, particularly as proposed; however, the Committee stated that it would consider a telecommunications facility with a height of 110 feet AGL and with a stealth design, if possible, as a plausible resolution to the possible visual impact on Route 146. A copy of the correspondence from the Committee is included as Exhibit R.

T-Mobile also informed the Town that it could locate its public safety antennas on the Facility at no cost to the Town. In a letter, dated June 30, 2010, the Fire Chief, Charles E. Herrschaft, Jr., strongly endorsed the Facility as it would provide "critical radio coverage" for the Town's various public safety agencies. The Fire Chief explained

that the existing public radio coverage is “seriously lacking in this area [of the Town].” See Exhibit R.

Based upon these consultations, and in light of the Medlyn Farm Site proposed by Verizon, T-Mobile has reduced the height of the Facility to 110 feet and incorporated a stealth design to lessen any visual impact to Route 146, the Westwoods Trail system and the surrounding area. The Facility would not have an adverse visual impact on the area. See Part VII.A, *supra*.

B. Consultations with State Officials

As noted in Section VII.B of this Application, T-Mobile undertook a consultation with the SHPO and the DEP in the course of its NEPA survey. Copies of the correspondence with SHPO and the DEP, including a copy of the DEP diversity database mapping, are attached hereto as Exhibit O; see also Exhibit R regarding related correspondence with the Committee.

C. Consultation with Federal Agencies

T-Mobile received a report from SiteSafe concerning compliance with the Federal Aviation Administration (“FAA”) for the Facility, which is attached hereto as Exhibit S. The results indicate that the Facility would not require FAA registration, let alone FAA review as a potential air navigation obstruction or hazard. Therefore, no FAA lighting or marking would be required for the towers proposed in this Application.

T-Mobile has also submitted a request for an environmental assessment with the FCC in accordance with the NEPA report. As discussed in Parts VII.D and VIII.D., *supra*, an environmental assessment is required regarding the proposed access, which would result in a small disturbance to a wetland system. T-Mobile’s environmental

analysis, including consultation with the DEP, indicated that the proposed Facility would not adversely impact any wetland. T-Mobile will forward the FCC's determinations to the Council upon receipt from the FCC.

X. ESTIMATED COST AND SCHEDULE

A. Overall Estimated Cost

The total estimated cost of construction for the Facility is \$185,000.00. This estimate includes:

- (1) Tower and foundation costs (including installation) of approximately \$90,000.00;
- (2) Site development costs of approximately \$65,000.00; and
- (3) Utility installation costs of approximately \$30,000.00.

B. Overall Scheduling

Site preparation and engineering would commence immediately following Council approval of T-Mobile's Development and Management ("D&M") Plan and is expected to be completed within four (4) to five (5) weeks. Installation of the monopole structure, antennas and associated equipment is expected to take an additional eight (8) weeks. The duration of the total construction schedule is approximately thirteen (15) weeks. Facility integration and system testing is expected to require an additional two (2) weeks after the construction is completed.

XI. CONCLUSION

This Application and the accompanying materials and documentation demonstrate that a public need exists in the Town for improved wireless services and that the Facility would not have any substantial adverse environmental effects. T-Mobile, therefore, respectfully submits that the public need for the Facility outweighs any potential environmental effects resulting from the construction of the Facility, and that the Council should grant a Certificate of Environmental Compatibility and Public Need for the Facility.

Respectfully Submitted,

T-MOBILE NORTHEAST LLC

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EXHIBIT A

Application Guideline	Location in Application
(A) An Executive Summary on the first page of the application with the address, proposed height, and type of tower being proposed. A map showing in the location of the proposed site should accompany the description;	I. Executive Summary, pages 1-2 Exhibit C, Site Plans
(B) A brief description of the proposed facility, including the proposed locations and heights of each of the various proposed sites of the facility, including all candidates referred to in the application;	I. Executive Summary, pages 1-2 VI. Facility Design, pages 10-11 Exhibit C, Site Plans
(C) A statement of the purpose for which the application is made;	I. Executive Summary, pages 1-2
(D) A statement describing the statutory authority for such application;	I. Executive Summary, pages 1-2
(E) The exact legal name of each person seeking the authorization or relief and the address or principal place of business of each such person. If any applicant is a corporation, trust, or other organized group, it shall also give the state under the laws of which it was created or organized;	II.A. The Applicant, pages 2-3
(F) The name, title, address, and telephone number of the attorney or other person to whom correspondence or communications in regard to the application are to be addressed. Notice, orders, and other papers may be served upon the person so named, and such service shall be deemed to be service upon the applicant;	II.A. The Applicant, pages 2-3
(G) A statement of the need for the proposed facility with as much specific information as is practicable to demonstrate the need including a description of the proposed system and how the proposed facility would eliminate or alleviate any existing deficiency or limitation;	IV.A. Statement of Need, pages 5-6 IV.C. Technological Alternatives, page 7 Exhibit H, Radio Frequency Coverage Plots from T-Mobile
(H) A statement of the benefits expected from the proposed facility with as much specific information as is practicable;	IV.B. Statement of Benefits, pages 6-7
(I) A description of the proposed facility at the proposed prime and alternative sites including:	I. Executive Summary, pages 1-2 IV.A. Statement of Need, pages 5-6

Application Guideline	Location in Application
<p>(1) Height of the tower and its associated antennas including a maximum "not to exceed height" for the facility, which may be higher than the height proposed by the Applicant;</p> <p>(2) Access roads and utility services;</p> <p>(3) Special design features;</p> <p>(4) Type, size, and number of transmitters and receivers, as well as the signal frequency and conservative worst-case and estimated operational level approximation of electro magnetic radiofrequency power density levels (facility using FCC Office of Engineering and Technology Bulletin 65, August 1997) at the base of the tower base, site compound boundary where persons are likely to be exposed to maximum power densities from the facility;</p> <p>(5) A map showing any fixed facilities with which the proposed facility would interact;</p> <p>(6) The coverage signal strength, and integration of the proposed facility with any adjacent fixed facility, to be accompanied by multi-colored propagation maps of red, green and yellow (exact colors may differ depending on computer modeling used, but a legend is required to explain each color used) showing interfaces with any adjacent service areas, including a map scale and north arrows; and</p> <p>(7) For cellular systems, a forecast of when maximum capability would be reached for the proposed facility and for facilities that would be integrated with the proposed facility.</p>	<p>IV.A. Statement of Need, pages 5-6</p> <p>VI. Facility Design, pages 10-11</p> <p>VII.C. MPE Limits/Power Density Analysis, page 15</p> <p>Exhibit P, Power Density Calculations</p> <p>Exhibit H, T-Mobile's Radio Frequency Coverage Plots</p> <p>Exhibit C, Site Plans</p>
<p>(J) A description of the named sites, including :</p> <p>(1) The most recent U.S.G.S. topographic quadrangle map (scale 1 inch = 2000 feet) marked to show the site of the facility and any significant changes within a one mile radius of the site;</p> <p>(2) A map (scale not less than 1 inch =</p>	<p>VI. Facility Design, pages 10-11</p> <p>Exhibit C, Site Plans</p>

Application Guideline	Location in Application
<p>200 feet) of the lot or tract on which the facility is proposed to be located showing the showing the acreage and dimensions of such site, the name and location of adjoining public roads or the nearest public road, and the names of abutting owners and the portions of their lands abutting the site;</p> <p>(3) A site plan (scale not less than 1 inch = 40 feet) showing the proposed facility, fall zones, existing and proposed contour elevations, 100 year flood zones, waterways, and all associated equipment and structures on the site;</p> <p>(4) Where relevant, a terrain profile showing the proposed facility and access road with existing and proposed grades; and</p> <p>(5) The most recent aerial photograph (scale not less than 1 inch = 1000 feet) showing the proposed site, access roads, and all abutting properties.</p>	
<p>(K) A statement explaining mitigation measures for the proposed facility including:</p> <p>(1) Construction techniques designed to specifically minimize adverse effects on natural areas and sensitive areas;</p> <p>(2) Special design features made specifically to avoid or minimize adverse effects on natural areas and sensitive areas;</p> <p>(3) Establishment of vegetation proposed near residential, recreation, and scenic areas; and</p> <p>(4) Methods for preservation of vegetation for wildlife habitat and screening.</p>	<p>VI. Facility Design, pages 10-11</p> <p>IV.C. Technological Alternatives, page 7 (antenna requirements)</p> <p>VII.B. Solicitation of State Agency Comments, pages 14-15</p> <p>Exhibit C, Site Plans</p> <p>Exhibit J, Site Selection Analysis and Map of Rejected Sites</p> <p>Exhibit K, Statement of Compliance</p> <p>Exhibit O, Correspondence with State Agencies</p>
<p>(L) A description of the existing and planned land uses of the named sites and surrounding areas;</p>	<p>VIII.C. Planned and Existing Land Uses, page 22</p>
<p>(M) A description of the scenic, natural, historic, and recreational characteristics of the named sites and surrounding areas</p>	<p>VII.D. Guilford Inland Wetlands and Watercourses Regulations, pages 22-23</p>

Application Guideline	Location in Application
including officially designated nearby hiking trails and scenic roads;	<p>Exhibit N, Visual Resource Evaluation Report</p> <p>Exhibit O, Correspondence with State Agencies</p> <p>Exhibit Q, NEPA Summary Report</p>
(N) Sight line graphs to the named sites from visually impacted areas such as residential developments, recreational areas, and historic sites;	Exhibit N, Visual Resource Evaluation Report. Applicant respectfully requests a waiver from the sight line graphs requested in the Council's guidelines given the extensive and comprehensive visual analysis, including viewshed maps and photosimulations from such visual receptors as included in Exhibit N.
(O) A list describing the type and height of all existing and proposed towers and facilities within a four mile radius within the site search area, or within any other area from which use of the proposed towers might be feasible from a location standpoint for purposes of the application;	Exhibit I
(P) A description of efforts to share existing towers, or consolidate telecommunications antennas of public and private services onto the proposed facility including efforts to offer tower space, where feasible, at no charge for space for municipal antennas;	<p>V. Site Selection and Tower Sharing, pages 8-9</p> <p>Exhibit C, Site Plans</p>
(Q) A description of the technological alternatives and a statement containing justification for the proposed facility;	IV.C. Technological Alternatives, page 7
(R) A description of rejected sites with a U.S.G.S. topographic quadrangle map (scale 1 inch= 2,000 feet) marked to show the location of rejected sites;	<p>V. Site Selection and Tower Sharing, pages 8-9</p> <p>Exhibit J, Site Selection Analysis and Rejected Sites</p>
(S) A detailed description and justification for the site(s) selected, including a description of siting criteria and the narrowing process by which other possible sites were considered and eliminated, including, but not limited to, environmental effects, cost differential, coverage lost or gained, potential interference with other	<p>V. Site Selection and Tower Sharing, pages 8-9</p> <p>Exhibit H, T-Mobile's Radio Frequency Coverage Plots</p> <p>Exhibit J, Site Selection Analysis and Map of Rejected Sites</p>

Application Guideline	Location in Application
facilities, and signal loss due to geographical features compared to the proposed site(s);	
(T) A statement describing hazards to human health, if any, with such supporting data and references to regulatory standards;	VII.C. MPE Limits/Power Density Analysis, page 15 Exhibit P, Power Density Analysis Bulk Filing
(U) A statement of estimated costs for site acquisition, construction, and equipment for a facility at the various proposed sites of the facility, including all candidates referred to in the application;	X.A. Overall Estimated Cost, page 26
(V) A schedule showing the proposed program of site acquisition, construction, completion, operation and relocation or removal of existing facilities for the named sites;	X.B. Overall Scheduling, page 26
(W) A statement indicating that, weather permitting, the applicant will raise a balloon with a diameter of at least three feet, at the sites of the various proposed sites of the facility, including all candidates referred to in the application, on the day of the Council's first hearing session on the application or at a time otherwise specified by the Council. For the convenience of the public, this event shall be publicly noticed at least 30 days prior to the hearing on the application as scheduled by the Council; and	VII.A. Visual Assessment, pages 11-13
(X) Such information as any department or agency of the state exercising environmental controls may, by regulation, require including: (1) A listing of any federal, State, regional, district, and municipal agencies, including but not limited to the Federal Aviation Administration; Federal Communications Commission; State Historic Preservation Officer; State Department of Environmental Protection; and local conservation, inland wetland, and planning and zoning commissions with	VII.B. Solicitation of State Agency Comments, pages 14-15 VII.C. MPE Limits/Power Density Analysis, page 15 VII.D. NEAP Assessment, pages 15-20 IX. Consultations with Local, State and Federal Officials, pages 23-26

Application Guideline	Location in Application
<p>which reviews were conducted concerning the facility, including a copy of any agency position or decision with respect to the facility; and</p> <p>(2) The most recent conservation, inland wetland, zoning, and plan of development documents of the municipality, including a description of the zoning classification of the site and surrounding areas, and a narrative summary of the consistency of the project with the Town's regulations and plans.</p>	<p>VIII. Consistency with the Guilford Land Use Regulations, pages 20-23</p> <p>Exhibit O, State Agency Correspondence</p> <p>Exhibit P, RF Emissions Report (power density)</p> <p>Exhibit Q, NEPA Summary Report</p> <p>Exhibit R, Municipal Consult</p> <p>Exhibit S, FAA Letter</p> <p>Bulk Filing</p>
<p>(Y) Description of proposed site clearing for access road and compound including type of vegetation scheduled for removal and quantity of trees greater than six inches diameter at breast height and involvement with wetlands;</p>	<p>Exhibit C, Site Plan</p>
<p>(Z) Such information as the applicant may consider relevant.</p>	<p>Exhibit L, Residential Structures within 1000 feet of the Facility</p>

EXHIBIT B

SITE LEASE WITH OPTION

THIS SITE LEASE WITH OPTION (this "Lease") is by and between Leete Associates, Inc., a(n) Connecticut corporation ("Landlord") and T-Mobile Northeast LLC, a Delaware limited liability company ("Tenant").

1. Option to Lease.

(a) In consideration of the payment of [REDACTED] (the "Option Fee") by Tenant to Landlord, Landlord hereby grants to Tenant an option to lease a portion of the real property described in the attached Exhibit A (the "Property"), on the terms and conditions set forth herein (the "Option"). The Option shall be for an initial term of twelve (12) months, commencing on the Effective Date (as defined below) (the "Option Period"). The Option Period may be extended by Tenant for an additional twelve (12) months upon written notice to Landlord and payment of the sum of [REDACTED] ("Additional Option Fee") at any time prior to the end of the Option Period.

(b) During the Option Period and any extension thereof, and during the Initial Term and any Renewal Term (as those terms are defined below) of this Lease, Landlord agrees to cooperate with Tenant in obtaining, at Tenant's expense, all licenses and permits or authorizations required for Tenant's use of the Premises (as defined below) from all applicable government and/or regulatory entities (including, without limitation, zoning and land use authorities, and the Federal Communications Commission ("FCC") ("Governmental Approvals"), including all land use and zoning permit applications, and Landlord agrees to cooperate with and to allow Tenant, at no cost to Landlord, to obtain a title report, zoning approvals and variances, land-use permits. Landlord expressly grants to Tenant a right of access to the Property to perform any surveys, soil tests, and other engineering procedures or environmental investigations ("Tests") on the Property deemed necessary or appropriate by Tenant to evaluate the suitability of the Property for the uses contemplated under this Lease. During the Option Period and any extension thereof, and during the Initial Term or any Renewal Term of this Lease, Landlord agrees that it will not interfere with Tenant's efforts to secure other licenses and permits or authorizations that relate to other property. During the Option Period and any extension thereof, Tenant may exercise the Option by so notifying Landlord in writing, at Landlord's address in accordance with Section 12 hereof.

(c) If Tenant exercises the Option, then Landlord hereby leases to Tenant that portion of the Property sufficient for placement of the Antenna Facilities (as defined below), together with all necessary space and easements for access and utilities, as generally described and depicted in the attached Exhibit B (collectively referred to hereinafter as the "Premises"). The Premises, located at Moose Hill Road, Guilford, New Haven County, Connecticut, comprises approximately 3,000 square feet.

2. Term. The initial term of this Lease shall be five (5) years commencing on the date of exercise of the Option (the "Commencement Date"), and terminating at midnight on the last day of the initial term (the "Initial Term").

3. Renewal. Tenant shall have the right to extend this Lease for five (5) additional and successive five-year terms (each a "Renewal Term") on the same terms and conditions as set forth herein. This Lease shall automatically renew for each successive Renewal Term unless Tenant notifies Landlord, in writing, of Tenant's intention not to renew this Lease, at least thirty (30) days prior to the expiration of the Initial Term or any Renewal Term. If Tenant shall remain in possession of the Premises at the expiration of this Lease or any Renewal Term without a written agreement, such tenancy shall be deemed a month-to-month tenancy under the same terms and conditions of this Lease.

4. Rent.

(a) From and after the Commencement Date, Tenant shall pay Landlord or designee, as rent, [REDACTED] per month ("Rent"). The first payment of Rent shall be due within twenty (20) days following the Commencement Date and shall be prorated based on the days remaining in the month following the Commencement Date, and thereafter Rent will be payable monthly in advance by the fifth day of each month to Landlord at the address specified in Section 12 below. If this Lease is terminated for any reason (other than a default by Tenant) at a time other than on the last day of a month, Rent shall be prorated as of the date of termination and all prepaid Rent shall be immediately refunded to Tenant. Landlord, its successors, assigns and/or designee, if any, will submit to Tenant any documents required by Tenant in connection with the payment of Rent, including, without limitation, an IRS Form W-9.

(b) During the Initial Term and any Renewal Terms, monthly Rent shall be adjusted, effective on the first day of each year of the Initial or Renewal Term, and on each such subsequent anniversary thereof, to an amount equal to one hundred three percent (103%) of the monthly Rent in effect immediately prior to the adjustment date.

5. Permitted Use. The Premises may be used by Tenant for the transmission and reception of radio communication signals and for the construction, installation, operation, maintenance, repair, removal or replacement of related facilities, including, without limitation, tower and base, antennas, microwave dishes, equipment shelters and/or cabinets and related activities.

6. Interference. Tenant shall not use the Premises in any way which interferes with the use of the Property by Landlord or lessees or licensees of Landlord with rights in the Property prior in time to Tenant's (subject to Tenant's rights under this Lease, including, without limitation, non-interference). Similarly, Landlord shall not use, nor shall Landlord permit its lessees, licensees, employees, invitees or agents to use, any portion of the Property in any way which interferes with the operations of Tenant. Such interference shall be deemed a material breach by the interfering party, who shall, upon written notice from the other, be responsible for terminating said interference. In the event any such interference does not cease promptly, the parties acknowledge that continuing interference may cause irreparable injury and, therefore, the injured party shall have the

right, in addition to any other rights that it may have at law or in equity, to bring a court action to enjoin such interference or to terminate this Lease immediately upon written notice.

7. Improvements; Utilities; Access.

(a) Tenant shall have the right, at its expense, to erect and maintain on the Premises improvements, personal property and facilities necessary to operate its communications system, including, without limitation, radio transmitting and receiving antennas, microwave dishes, tower and base, equipment shelters and/or cabinets and related cables and utility lines and a location based system, as such location based system may be required by any county, state or federal agency/department, including, without limitation, additional antenna(s), coaxial cable, base units and other associated equipment (collectively, the "Antenna Facilities"). Tenant shall have the right to alter, replace, expand, enhance and upgrade the Antenna Facilities at any time during the term of this Lease. Tenant shall cause all construction to occur lien-free and in compliance with all applicable laws and ordinances. Landlord acknowledges that it shall neither interfere with any aspects of construction nor attempt to direct construction personnel as to the location of or method of installation of the Antenna Facilities and the Easements (as defined below). The Antenna Facilities shall remain the exclusive property of Tenant and shall not be considered fixtures. Tenant shall have the right to remove the Antenna Facilities at any time during and upon the expiration or termination of this Lease.

(b) Tenant, at its expense, may use any and all appropriate means of restricting access to the Antenna Facilities, including, without limitation, the construction of a fence.

(c) Tenant shall, at Tenant's expense, keep and maintain the Antenna Facilities now or hereafter located on the Property in commercially reasonable condition and repair during the term of this Lease, normal wear and tear and casualty excepted. Upon termination or expiration of this Lease, the Premises shall be returned to Landlord in good, usable condition, normal wear and tear and casualty excepted, including removal of all Tenant's structures and fencing.

(d) Tenant shall have the right to install utilities, at Tenant's expense, and to improve the present utilities on the Property (including, but not limited to, the installation of emergency power generators). Landlord agrees to use reasonable efforts in assisting Tenant to acquire necessary utility service. Tenant shall, wherever practicable, install separate meters for utilities used on the Property by Tenant. In the event separate meters are not installed, Tenant shall pay the periodic charges for all utilities attributable to Tenant's use, at the rate charged by the servicing utility. Landlord shall diligently correct any variation, interruption or failure of utility service.

(e) As partial consideration for Rent paid under this Lease, Landlord hereby grants Tenant easements on, under and across the Property for ingress, egress, utilities and access (including access for the purposes described in Section 1) to the Premises adequate to install and maintain utilities, including, but not limited to, the installation of power and telephone service cable, and to service the Premises and the Antenna Facilities at all times during the Initial Term of this Lease and any Renewal Term (collectively, the "Easements"). The Easements provided hereunder shall have the same term as this Lease.

(f) Tenant shall have 24-hours-a-day, 7-days-a-week access to the Premises at all times during the Initial Term of this Lease and any Renewal Term, at no charge to Tenant.

(g) Tenant shall maintain and repair Tenant's access roadway from the nearest public roadway to the Premises including snow removal in a manner sufficient to allow vehicular and pedestrian access at all times, at its sole expense, except for any damage to such roadways caused by Landlord.

8. Termination. Except as otherwise provided herein, this Lease may be terminated, without any penalty or further liability as follows:

(a) upon thirty (30) days' written notice by Landlord if Tenant fails to cure a default for payment of amounts due under this Lease within such thirty (30) day period;

(b) immediately upon written notice by Tenant if Tenant notifies Landlord of any unacceptable results of any Tests prior to Tenant's installation of the Antenna Facilities on the Premises, or if Tenant does not obtain, maintain, or otherwise forfeits or cancels any license (including, without limitation, an FCC license), permit or any Governmental Approval necessary to the installation and/or operation of the Antenna Facilities or Tenant's business;

(c) upon thirty (30) days' written notice by Tenant if Tenant determines that the Property or the Antenna Facilities are inappropriate or unnecessary for Tenant's operations for economic or technological reasons;

(d) immediately upon written notice by Tenant if the Premises or the Antenna Facilities are destroyed or damaged so as in Tenant's reasonable judgment to substantially and adversely affect the effective use of the Antenna Facilities. In such event, all rights and obligations of the parties shall cease as of the date of the damage or destruction, and Tenant shall be entitled to the reimbursement of any Rent prepaid by Tenant. If Tenant elects to continue this Lease, then all Rent shall abate until the Premises and/or the Antenna Facilities are restored to the condition existing immediately prior to such damage or destruction; or

(e) at the time title to the Property transfers to a condemning authority pursuant to a taking of all or a portion of the Property sufficient in Tenant's determination to render the Premises unsuitable for Tenant's use. Landlord and Tenant shall each be entitled to pursue their own separate awards with respect to such taking. Sale of all or part of the Property to a purchaser with the power of eminent domain in the face of the exercise of the power shall be treated as a taking by condemnation.

9. Default and Right to Cure. Notwithstanding anything contained herein to the contrary and without waiving any other rights granted to it at law or in equity, each party shall have the right, but not the obligation, to terminate this Lease on written notice pursuant to Section 12 hereof, to take effect immediately, if the other party fails to perform any covenant or commits a material breach of this Lease and fails to diligently pursue a cure thereof to its completion after thirty (30) days' written notice specifying such failure of performance or default.

10. Taxes. Landlord shall pay when due all real property taxes for the Property, including the Premises. In the event that Landlord fails to pay any such real property taxes or other fees and assessments, Tenant shall have the right, but not the obligation, to pay such owed amounts and deduct them from Rent amounts due under this Lease. Notwithstanding the foregoing, Tenant shall pay any personal property tax, real property tax or any other tax or fee which is directly attributable to the presence or installation of Tenant's Antenna Facilities, only for so long as this Lease remains in effect. If Landlord receives notice of any personal property or real property tax assessment against Landlord, which may affect Tenant and is directly attributable to Tenant's installation, Landlord shall provide timely notice of the assessment to Tenant sufficient to allow Tenant to consent to or challenge such assessment, whether in a Court, administrative proceeding, or other venue, on behalf of Landlord and/or Tenant. Further, Landlord shall provide to Tenant any and all documentation associated with the assessment and shall execute any and all documents reasonably necessary to effectuate the intent of this Section 10. In the event real property taxes are assessed against Landlord or Tenant for the Premises or the Property, Tenant shall have the right, but not the obligation, to terminate this Lease without further liability after thirty (30) days' written notice to Landlord, provided Tenant pays any real property taxes assessed as provided herein.

11. Insurance and Subrogation and Indemnification.

(a) Tenant will maintain Commercial General Liability Insurance in amounts of [REDACTED] per occurrence and [REDACTED] aggregate. Tenant may satisfy this requirement by obtaining the appropriate endorsement to any master policy of liability insurance Tenant may maintain.

(b) Landlord and Tenant hereby mutually release each other (and their successors or assigns) from liability and waive all right of recovery against the other for any loss or damage covered by their respective first party property insurance policies for all perils insured thereunder. In the event of such insured loss, neither party's insurance company shall have a subrogated claim against the other.

(c) Subject to the property insurance waivers set forth in subsection 11(b), Landlord and Tenant each agree to indemnify and hold harmless the other party from and against any and all claims, damages, costs and expenses, including reasonable attorney fees, to the extent caused by or arising out of the negligent acts or omissions or willful misconduct in the operations or activities on the Property by the indemnifying party or the employees, agents, contractors, licensees, tenants and/or subtenants of the indemnifying party, or a breach of any obligation of the indemnifying party under this Lease. The indemnifying party's obligations under this section are contingent upon its receiving prompt written notice of any event giving rise to an obligation to indemnify the other party and the indemnified party's granting it the right to control the defense and settlement of the same.

(d) Notwithstanding anything to the contrary in this Lease, the parties hereby confirm that the provisions of this Section 11 shall survive the expiration or termination of this Lease.

(e) Tenant shall not be responsible to Landlord, or any third-party, for any claims, costs or damages (including, fines and penalties) attributable to any pre-existing violations of applicable codes, statutes or other regulations governing the Property.

12. Notices. All notices, requests, demands and other communications shall be in writing and are effective three (3) days after deposit in the U.S. mail, certified and postage paid, or upon receipt if personally delivered or sent by next-business-day delivery via a nationally recognized overnight courier to the addresses set forth below. Landlord or Tenant may from time to time designate any other address for this purpose by providing written notice to the other party.

If to Tenant, to:
T-Mobile USA, Inc.
12920 SE 38th Street
Bellevue, WA 98006
Attn: PCS Lease Administrator

With a copy to:
Attn: Legal Dept.

And with a copy to:
T-Mobile Northeast LLC
4 Sylvan Way
Parsippany, NJ 07054
Attn: Lease Administration Manager

With a copy to:
Attn: Legal Dept.

If to Landlord, to:
Lecte Associates, Inc.
PO Box 45
Guilford, CT 06437

And with a copy to:

Send Rent payments to:
Lecte Associates, Inc.
PO Box 45
Guilford, CT 06437

13. Quiet Enjoyment, Title and Authority. As of the Effective Date and at all times during the Initial Term and any Renewal Terms of this Lease, Landlord covenants and warrants to Tenant that (i) Landlord has full right, power and authority to execute and perform this Lease; (ii) Landlord has good and unencumbered fee title to the Property free and clear of any liens or mortgages, except those heretofore disclosed in writing to Tenant and which will not interfere with Tenant's rights to or use of the Premises; (iii) execution and performance of this Lease will not violate any laws, ordinances, covenants, or the provisions of any mortgage, lease, or other agreement binding on Landlord; and (iv) Tenant's quiet enjoyment of the Premises or any part thereof shall not be disturbed as long as Tenant is not in default beyond any applicable grace or cure period.

14. Environmental Laws. Landlord represents that it has no knowledge of any substance, chemical or waste (collectively, "Hazardous Substance") on the Property that is identified as hazardous, toxic or dangerous in any applicable federal, state or local law or regulation. Landlord and Tenant shall not introduce or use any Hazardous Substance on the Property in violation of any applicable law. Landlord shall be responsible for, and shall promptly conduct any investigation and remediation as required by any applicable environmental laws, all spills or other releases of any Hazardous Substance not caused solely by Tenant, that have occurred or which may occur on the Property. Each party agrees to defend, indemnify and hold harmless the other from and against any and all administrative and judicial actions and rulings, claims, causes of action, demands and liability (collectively, "Claims") including, but not limited to, damages, costs, expenses, assessments, penalties, fines, losses, judgments and reasonable attorney fees that the indemnitee may suffer or incur due to the existence of any Hazardous Substances on the Property or the migration of any Hazardous Substance to other properties or the release of any Hazardous Substance into the environment (collectively, "Actions"), that relate to or arise from the indemnitor's activities on the Property. Landlord agrees to defend, indemnify and hold Tenant harmless from Claims resulting from Actions on the Property not caused by Landlord or Tenant prior to and during the Initial Term and any Renewal Term. The indemnifications in this section specifically include, without limitation, costs incurred in connection with any investigation of site conditions or any cleanup, remedial, removal or restoration work required by any governmental authority. This Section 14 shall survive the termination or expiration of this Lease.

15. Assignment and Subleasing. Tenant shall have the right to assign or otherwise transfer this Lease and the Easements (as defined above) granted herein upon written notice to Landlord. Upon such assignment, Tenant shall be relieved of all liabilities and obligations hereunder and Landlord shall look solely to the assignee for performance under this Lease and all obligations hereunder. Upon written notice to Landlord, Tenant may sublease the Premises to subsequent third-party users ("Subsequent User"). Upon the execution of any sublease, Landlord shall be entitled to receive an amount equal to fifteen percent (15%) of the Subsequent User's monthly rent as additional rent from Tenant until the expiration or earlier termination of the sublease.

Landlord shall have the right to assign or otherwise transfer this Lease and the Easements granted herein, upon written notice to Tenant except for the following; any assignment or transfer of this Lease which is separate and distinct from a transfer of Landlord's entire right, title and interest in the Property, shall require the prior written consent of Tenant which may be withheld in Tenant's sole discretion. Upon Tenant's receipt of (i) an executed deed or assignment and (ii) an IRS Form W-9 from assignee, and subject to Tenant's consent, if required, Landlord shall be relieved of all liabilities and obligations hereunder and Tenant shall look solely to the assignee for performance under this Lease and all obligations hereunder.

Additionally, notwithstanding anything to the contrary above, Landlord or Tenant may, upon notice to the other, grant a security interest in this Lease (and as regards the Tenant, in the Antenna Facilities), and may collaterally assign this Lease (and as regards the Tenant, in the Antenna Facilities) to any mortgagees or holders of security interests, including their successors or assigns (collectively "Secured Parties"). In such event, Landlord or Tenant, as the case may be, shall execute such consent to leasehold financing as may reasonably be required by Secured Parties.

16. Successors and Assigns. This Lease and the Easements granted herein shall run with the land, and shall be binding upon and inure to the benefit of the parties, their respective successors, personal representatives and assigns.

17. Waiver of Landlord's Lien. Landlord hereby waives any and all lien rights it may have, statutory or otherwise, concerning the Antenna Facilities or any portion thereof, which shall be deemed personal property for the purposes of this Lease, whether or not the same is deemed real or personal property under applicable laws, and Landlord gives Tenant and Secured Parties the right to remove all or any portion of the same from time to time, whether before or after a default under this Lease, in Tenant's and/or Secured Party's sole discretion and without Landlord's consent.

18. Miscellaneous.

(a) The prevailing party in any litigation arising hereunder shall be entitled to reimbursement from the other party of its reasonable attorneys' fees and court costs, including appeals, if any.

(b) This Lease constitutes the entire agreement and understanding of the parties, and supersedes all offers, negotiations and other agreements with respect to the subject matter and property covered by this Lease. Any amendments to this Lease must be in writing and executed by both parties.

(c) Landlord agrees to cooperate with Tenant in executing any documents necessary to protect Tenant's rights in or use of the Premises. A Memorandum of Lease in substantially the form attached hereto as Exhibit C may be recorded in place of this Lease by Tenant.

(d) In the event the Property is encumbered by a mortgage or deed of trust, Landlord agrees, upon request of Tenant, to obtain and furnish to Tenant a non-disturbance and attornment agreement for each such mortgage or deed of trust, in a form reasonably acceptable to Tenant.

(e) Tenant may obtain title insurance on its interest in the Premises. Landlord agrees to execute such documents as the title company may require in connection therewith.

(f) This Lease shall be construed in accordance with the laws of the state in which the Property is located, without regard to the conflicts of law principles of such state.

(g) If any term of this Lease is found to be void or invalid, the remaining terms of this Lease shall continue in full force and effect. Any questions of particular interpretation shall not be interpreted against the drafter, but rather in accordance with the fair meaning thereof. No provision of this Lease will be deemed waived by either party unless expressly waived in writing by the waiving party. No waiver shall be implied by delay or any other act or omission of either party. No waiver by either party of any provision of this Lease shall be deemed a waiver of such provision with respect to any subsequent matter relating to such provision.

(h) The persons who have executed this Lease represent and warrant that they are duly authorized to execute this Lease in their individual or representative capacities as indicated.

(i) This Lease may be executed in any number of counterparts, each of which shall be deemed an original, but all of which together shall constitute a single instrument.

(j) All Exhibits referred to herein and any Addenda are incorporated herein for all purposes. The parties understand and acknowledge that Exhibits A and B may be attached to this Lease and the Memorandum of Lease, in preliminary form. Accordingly, the parties agree that upon the preparation of final, more complete exhibits, Exhibits A and/or B, as the case may be, may be replaced by Tenant with such final, more complete exhibit(s).

(k) If either party is represented by any broker or any other leasing agent, such party is responsible for all commission fee or other payment to such agent, and agrees to indemnify and hold the other party harmless from all claims by such broker or anyone claiming through such broker.

The effective date of this Lease is the date of execution by the last party to sign (the "Effective Date").

LANDLORD: Leete Associates, Inc.

By: Lawrence R. Leete, Jr.
Printed Name: Lawrence Leete PRES.
Title: President
Date: 12-14-09

TENANT: T-Mobile Northeast LLC

By: [Signature]
Printed Name: Mark Appel
Title: Area Director
Date: 18 NOV 09

T-Mobile Legal Approval

Memorandum of Lease Exhibit A
Legal Description

The Property is legally described as follows; however, Tenant shall lease only a portion of the below for placement of the Antenna Facilities, together with all necessary space and easements for access and utilities, said portion of land, access and utilities as generally described and depicted in Exhibit B referenced on LE-1, LE-2 and LE-3 to the Lease:

ALL THAT CERTAIN piece or parcel of land, with the improvements thereon, situated on Moose Hill Road in the Town of Guilford, County of New Haven, State of Connecticut, bounded and described as follows:

- NORTH: By land now or formerly of Lenholt, land now or formerly of Nellie Leete, and land now or formerly of O. Good;
- EAST: By land now or formerly of the State of Connecticut;
- SOUTH: By land now or formerly of the N.Y., N.H. & H.R.R. Company;
- WEST: By Highway, land now or formerly of Lenholt, land now or formerly of L.R. Leete, land now or formerly of Dolan, land now or formerly of Wanamaker, land now or formerly of Nellie Leete, land now or formerly of Butler, land now or formerly of Beattie, and land now or formerly of Brock, each in part.

EXHIBIT B

The location of the Premises within the Property (together with access and utilities) is more particularly described and depicted as follows:

SEE ATTACHED.

ALL-POINTS TECHNOLOGY CORPORATION, P.C.

2 SADDLEBROOK DRIVE
KILLINOUGH, CT, 06418
PHONE: (860) 463-1887
FAX: (860) 463-0854
www.allpointstech.com



APT FILING NUMBER: CT-256T-400

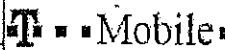
LE-1

SCALE: AS NOTED

DRAWN BY: RCB

DATE: 11/02/09

CHECKED BY: SMC

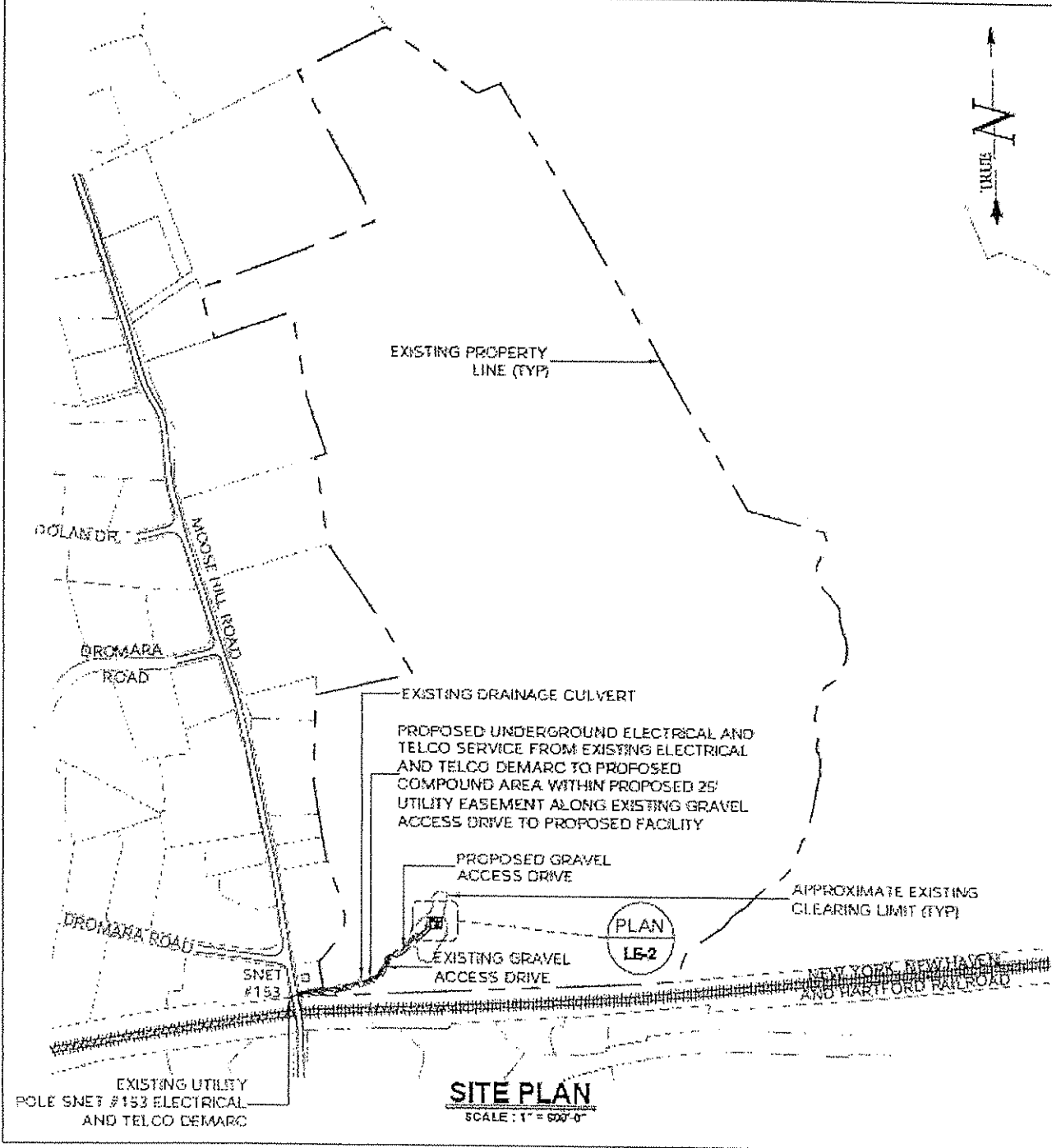


35 GRIFFIN ROAD
BLOOMFIELD, CT 06002
OFFICE: (860) 692-7100

T-MOBILE SITE NUMBER
CTNH805A

AMTRAK GUILFORD
MOOSE HILL ROAD
GUILFORD, CT 06437

NOTE:
PER FCC MANDATE, EMERGENCY (911) SERVICE IS REQUIRED TO MEET NATIONWIDE STANDARDS FOR WIRELESS COMMUNICATIONS SYSTEMS. T-MOBILE NORTHEAST, LLC IMPLEMENTATION REQUIRES DEPLOYMENT OF EQUIPMENT AND ANTENNAS GENERALLY DEPICTED ON THIS PLAN, ATTACHED TO OR MOUNTED IN CLOSE PROXIMITY TO THE BTS RADIO CABINETS. T-MOBILE NORTHEAST, LLC RESERVES THE RIGHT TO MAKE REASONABLE MODIFICATIONS TO EQUIPMENT AND LOCATION AS TECHNOLOGY EVOLVES TO MEET REQUIRED SPECIFICATIONS.
ALL EQUIPMENT LOCATIONS ARE APPROXIMATE AND ARE SUBJECT TO APPROVAL BY T-MOBILE NORTHEAST, LLC STRUCTURAL & RF ENGINEERS. LOCATIONS OF POWER & TELEPHONE FACILITIES AND APPLICABLE EASEMENTS ARE SUBJECT TO APPROVAL AS PER UTILITY COMPANIES DIRECTION.



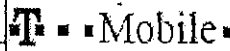
LRH
WMM

Site Number: CTNH805A
Site Name: Amtrak-Guilford
Market: Connecticut

ALL-POINTS TECHNOLOGY CORPORATION, P.C.
 8 SADDLEBROOK DRIVE
 KILLINGWORTH, CT. 06419
 PHONE: (860) 463-1987
 FAX: (860) 463-0934
 www.allpointstech.com



APT FILING NUMBER: CT-255T-400



T-MOBILE SITE NUMBER
 CTNH805A

LE-2

SCALE: AS NOTED

DRAWN BY: RCB

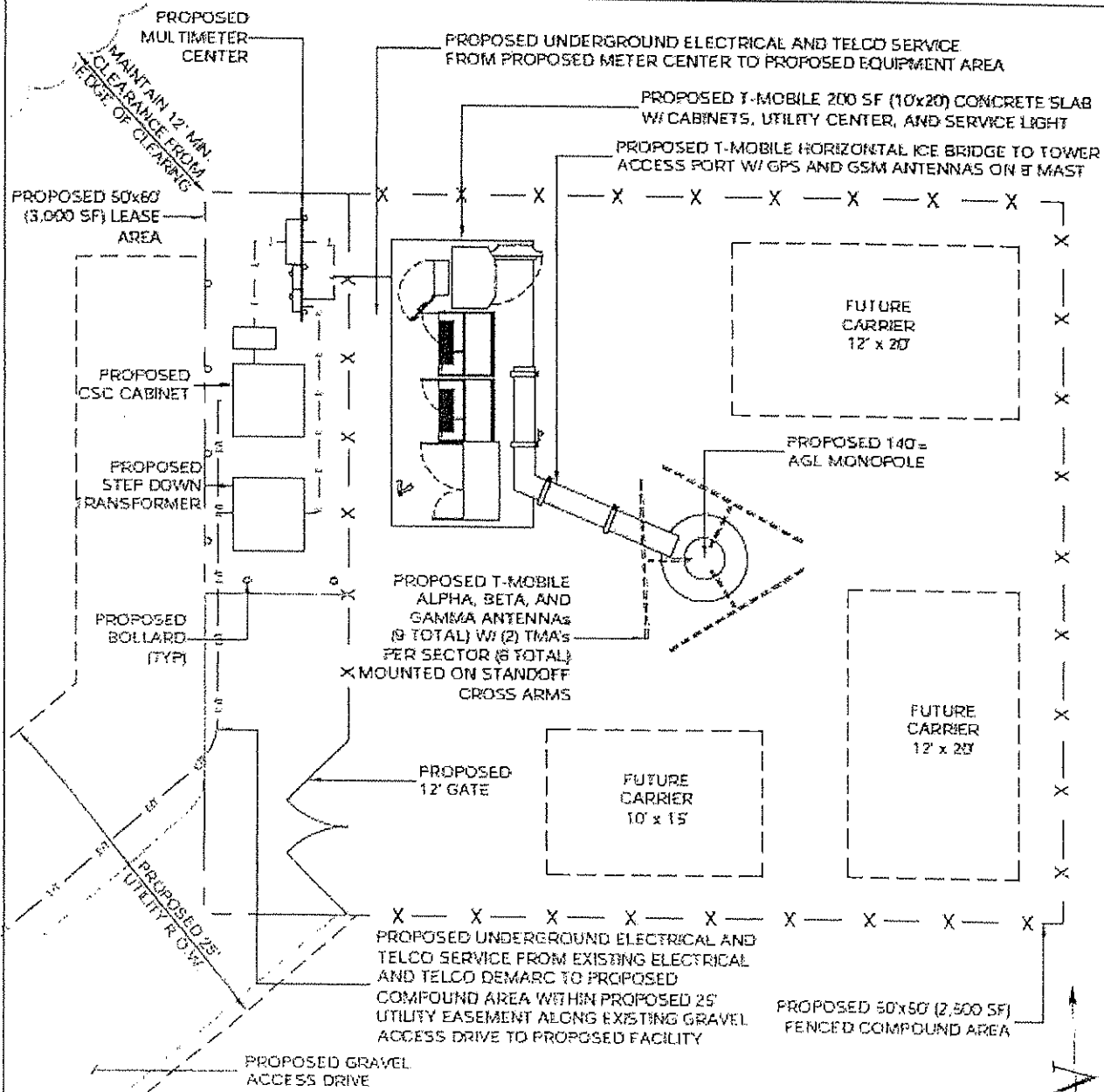
35 GRIFFIN ROAD
 BLOOMFIELD, CT 06002
 OFFICE: (860) 692-7100

AMTRAK GUILFORD
 MOOSE HILL ROAD
 GUILFORD, CT 06437

DATE: 11/02/09

CHECKED BY: SMC

NOTE:
 PER FCC MANDATE, FINANCED EMERGENCY (911) SERVICE IS REQUIRED TO MEET NATIONWIDE STANDARDS FOR WIRELESS COMMUNICATIONS SYSTEMS. T-MOBILE NORTHEAST, LLC IMPLEMENTATION REQUIRES DEPLOYMENT OF EQUIPMENT AND ANTENNAS GENERALLY DEPICTED ON THIS PLAN, ATTACHED TO OR MOUNTED IN CLOSE PROXIMITY TO THE BTS RADIO CABINETS. T-MOBILE NORTHEAST, LLC RESERVES THE RIGHT TO MAKE REASONABLE MODIFICATIONS TO EQUIPMENT AND LOCATION AS TECHNOLOGY EVOLVES TO MEET REQUIRED SPECIFICATIONS. ALL EQUIPMENT LOCATIONS ARE APPROXIMATE AND ARE SUBJECT TO APPROVAL BY T-MOBILE NORTHEAST, LLC, STRUCTURAL & RF ENGINEERS. LOCATIONS OF POWER & TELEPHONE FACILITIES AND APPLICABLE EASEMENTS ARE SUBJECT TO APPROVAL AS PER UTILITY COMPANIES DIRECTION.



PARTIAL SITE PLAN
 SCALE: 1" = 10'-0"

LRD

ALL-POINTS TECHNOLOGY CORPORATION, P.C.

3 SADDLEBROOK DRIVE
MILLINGTON, CT, 06419
PHONE: (860)-885-1897
FAX: (860)-885-0835
www.allpointstools.com



APT FILING NUMBER: CT-255T-400

LE-3

T-Mobile

T-MOBILE SITE NUMBER

CTNH805A

SCALE: AS NOTED

DRAWN BY: RCB

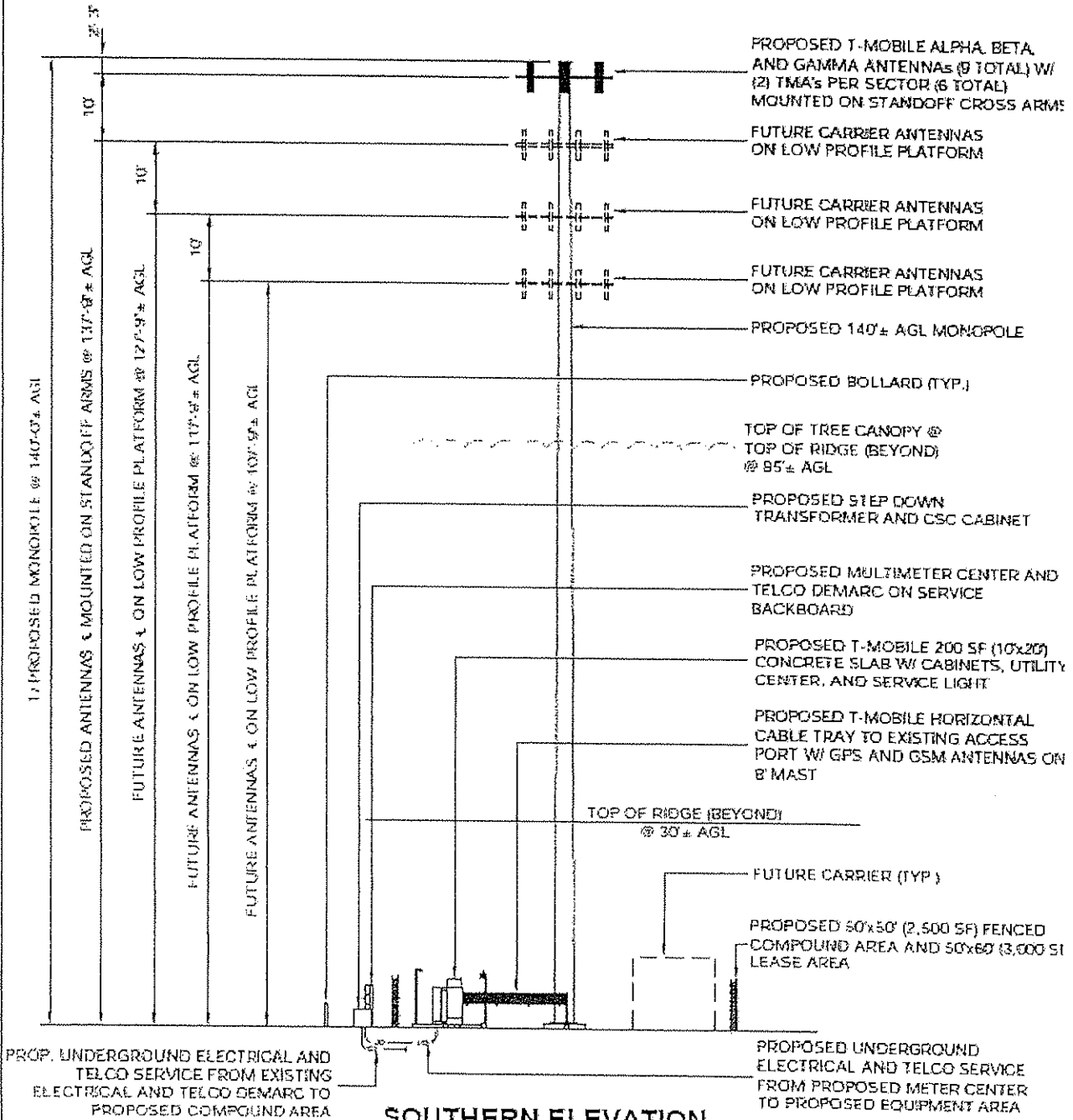
35 GRIFFIN ROAD
BLOOMFIELD, CT 06002
OFFICE: (860)-692-7100

AMTRAK GUILFORD
MOOSE HILL ROAD
GUILFORD, CT 06437

DATE: 11/02/09

CHECKED BY: SMC

NOTE:
PER FCC MANDATE, FINANCED EMERGENCY (911) SERVICE IS REQUIRED TO MEET NATIONWIDE STANDARDS FOR WIRELESS COMMUNICATIONS SYSTEMS. T-MOBILE NORTHEAST, LLC IMPLEMENTATION REQUIRES DEPLOYMENT OF EQUIPMENT AND ANTENNAS GENERALLY DEPICTED ON THIS PLAN, ATTACHED TO OR MOUNTED IN CLOSE PROXIMITY TO THE BTS RADIO CABINETS. T-MOBILE NORTHEAST, LLC RESERVES THE RIGHT TO MAKE REASONABLE MODIFICATIONS TO EQUIPMENT AND LOCATION AS TECHNOLOGY EVOLVES TO MEET REQUIRED SPECIFICATIONS. ALL EQUIPMENT LOCATIONS ARE APPROXIMATE AND ARE SUBJECT TO APPROVAL BY T-MOBILE NORTHEAST, LLC, STRUCTURAL & RF ENGINEERS. LOCATIONS OF POWER & TELEPHONE FACILITIES AND APPLICABLE EASEMENTS ARE SUBJECT TO APPROVAL AS PER UTILITY COMPANIES DIRECTION.



LRB *WMA*

EXHIBIT C

**Memorandum
of
Lease**

MEMORANDUM OF LEASE

Assessor's Parcel Number: Map 66; Lot 64
Between Leete Associates, Inc. ("Landlord") and T-Mobile Northeast LLC ("Tenant")

NAME AND ADDRESS OF LANDLORD: Leete Associates, Inc.
PO Box 45
Guilford, CT 06437

NAME AND ADDRESS OF TENANT: T-Mobile Northeast LLC
4 Sylvan Way
Parsippany, NJ 07054
Attn: Lease Administration Manager

LEASE DATE OF EXECUTION: _____

SITE LEASE WITH OPTION: A Site Lease with Option (the "Lease") by and between Leete Associates, Inc., a(n) Connecticut corporation ("Landlord") and T-Mobile Northeast LLC, a Delaware limited liability company ("Tenant") was made regarding a portion of the property described below (the "Leased Premises").

DESCRIPTION OF LEASED PREMISIES: The Leased Premises consists of a portion of the property (the "Property") known by the street address Moose Hill Road, Town of Guilford, County of New Haven, State of Connecticut, which is sufficient for the placement of Antenna Facilities together with easements for access and utilities. A metes and bounds description of the Property is incorporated herein as Exhibit "A."

TERM OF THE LEASE: The term of the Lease is for five (5) years, commencing on the date of the exercise of the Option (the "Commencement Date") and expiring on midnight on the last day of the Initial or Renewal Term (the "Expiration Date").

OPTION TO EXTEND: Tenant has an option to extend the term of the Lease for five (5) successive periods of five (5) years [each]. This Lease shall automatically renew for each successive Renewal Term, unless Tenant notifies Landlord, in writing, of Tenant's intention not to renew this Lease, at least thirty (30) days prior to the expiration of the Initial Term or any Renewal Term.

TERMS OF THE LEASE GOVERN: The rights, obligations and remedies of Landlord and Tenant, respectively, with reference to each other and the Leased Premises shall be fixed, determined and governed solely by the terms of the Lease, this being a Memorandum of Lease executed by the parties hereto for the purpose of providing an instrument in lieu of recording the Lease.

The parties hereto have executed and delivered this Memorandum of Lease for the purpose of giving notice of the Lease to whomever it may concern. For a statement of the rights, privileges and obligations created under the Lease and of the options, terms, covenants and conditions contained therein, reference should be made to the Lease.

IN WITNESS WHEREOF, the parties hereto have respectively executed this memorandum effective as of the date of the last party to sign.

LANDLORD: Leete Associates, Inc.

By: _____
Printed Name: Lawrence Leete
Title: _____
Date: _____

TENANT: T-Mobile Northeast LLC

By: _____
Printed Name: Mark Appel
Title: Area Director
Date: _____

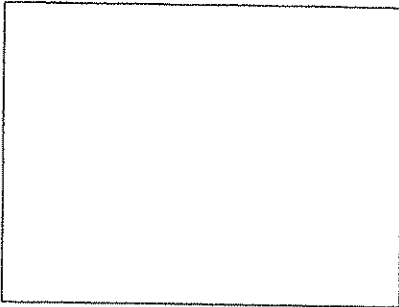
[Notary block for Landlord]

CONNECTICUT

STATE OF CONNECTICUT)
) ss.
COUNTY OF _____)

On the _____ day of _____ in the year _____ before me, the undersigned, personally appeared _____ Personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name(s) is (are) subscribed to be within instrument and acknowledged to me that he/she/they executed the same in his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

Dated: _____



(Use this space for notary stamp/seal)

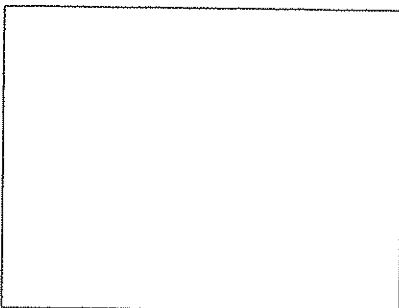
Notary Public
Print Name _____
My commission expires _____

[Notary block for Tenant]

STATE OF MASSACHUSETTS)
) ss.
COUNTY OF BRISTOL)

I certify that I know or have satisfactory evidence that Mark Appel is the person who appeared before me, and said person acknowledged that he signed this instrument, on oath stated that he was authorized to execute the instrument and acknowledged it as the Area Director of T-Mobile Northeast LLC, a Delaware limited liability company, to be the free and voluntary act of such party for the uses and purposes mentioned in the instrument.

Dated: _____



(Use this space for notary stamp/seal)

Notary Public
Print Name _____
My commission expires _____

EXHIBIT A
Legal Description

The Property is legally described as follows; however, Tenant shall lease only a portion of the below for placement of the Antenna Facilities, together with all necessary space and easements for access and utilities, said portion of land, access and utilities as generally described and depicted in Exhibit B referenced on LE-1, LE-2 and LE-3 to the Lease:

ALL THAT CERTAIN piece or parcel of land, with the improvements thereon, situated on Moose Hill Road in the Town of Guilford, County of New Haven, State of Connecticut, bounded and described as follows:

- NORTH: By land now or formerly of Lenholt, land now or formerly of Nellie Leete, and land now or formerly of O. Good;
- EAST: By land now or formerly of the State of Connecticut;
- SOUTH: By land now or formerly of the N.Y., N.H. & H.R.R. Company;
- WEST: By Highway, land now or formerly of Lenholt, land now or formerly of L.R. Leete, land now or formerly of Dolan, land now or formerly of Wanamaker, land now or formerly of Nellie Leete, land now or formerly of Butler, land now or formerly of Beattie, and land now or formerly of Brock, each in part.

EXHIBIT C

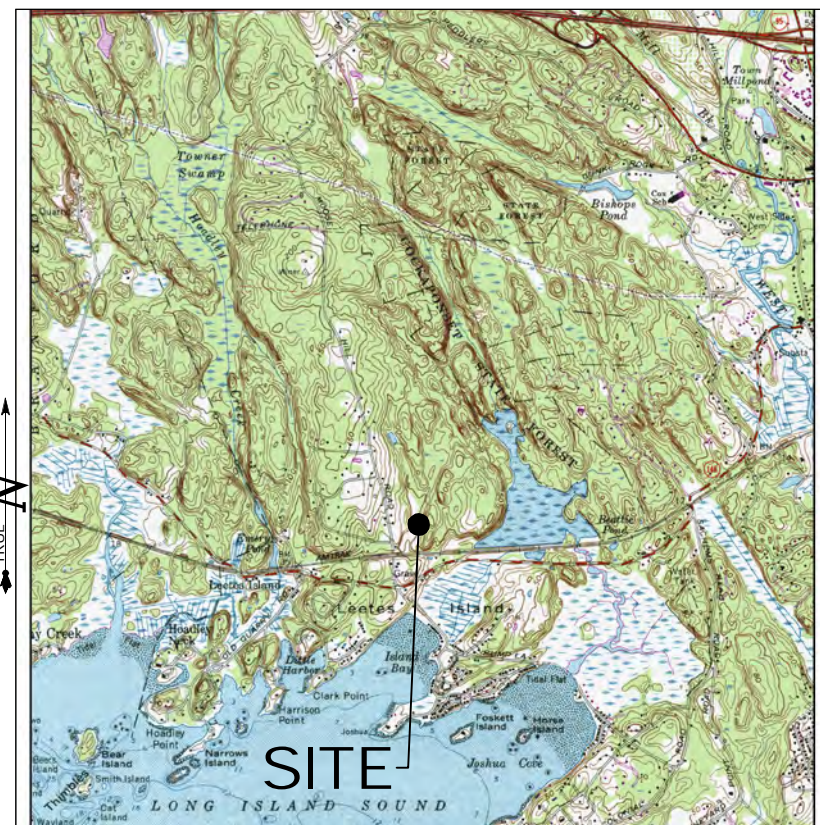
LOCATION MAP



SCALE: NTS

SOURCE: MAPQUEST

USGS TOPOGRAPHIC MAP

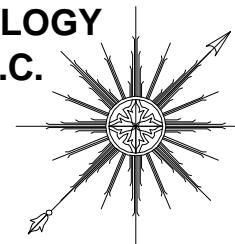


SCALE: 1" = 2000'

SOURCE: USGS 7.5 QUADRANGLE FOR GUILFORD, CT 06437

ALL-POINTS TECHNOLOGY CORPORATION, P.C.

3 SADDLEBROOK DRIVE
KILLINGWORTH, CT. 06419
PHONE: (860)-663-1697
FAX: (860)-663-0935
www.allpointstech.com



CONTACT PERSONNEL

APPLICANT:
T-MOBILE NORTHEAST, LLC
35 GRIFFIN ROAD
BLOOMFIELD, CT 06002

LANDLORD:
LEETE ASSOCIATES, INC.
P.O. BOX 45
GUILFORD, CT 06437

T-MOBILE PROJECT MANAGER:
PAUL SAENZ (914) 447-3581

T-MOBILE PROJECT ATTORNEY:
JULIE D. KOHLER, ESQ.
COHEN AND WOLF, P.C.
1115 BROAD STREET
BRIDGEPORT, CT 06604
203-337-4157

POWER PROVIDER:
CL&P (203) 245-5423
DION DOWLING - CASE# 1408843

TELCO PROVIDER:
AT&T: (800)-727-8368

CALL BEFORE YOU DIG:
(800) 922-4455

GOVERNING CODES:
2005 CONNECTICUT BUILDING CODE (2003 IBC BASIS)
NATIONAL ELECTRIC CODE
EIA/TIA 222F

DRAWING INDEX

- T-1 TITLE SHEET & INDEX
- A-1 ABUTTERS MAP
- SP-1 SITE PLAN
- SP-2 COMPOUND PLAN AND TOWER ELEVATION
- AE-1 AERIAL MAP

SITE INFORMATION

CTNH805A
GUILFORD
MOOSE HILL ROAD
GUILFORD, CT 06437

PERMITTING DOCUMENTS

GUILFORD
MOOSE HILL ROAD
GUILFORD, CT 06437

TITLE SHEET AND INDEX

DESIGN TYPE:

RAW LAND

APT FILING NUMBER: CT-255T-400

APT DRAWING NUMBER: CTNH805A A-1.DWG

DRAWN BY: RCB

CHECKED BY: SMC

SCALE: AS NOTED

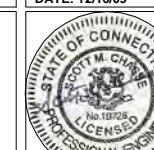
DATE: 12/16/09

REVISIONS:

REV.0: 12/16/09: FOR REVIEW: SMC
REV.1: 12/18/09: FOR TECH REPORT: SMC
REV.2: 9/29/10: ACOE CAT 1 COMPLIANCE
REV.3: 10/08/10: ACOE CAT 1 COMPLIANCE
REV.4: 03/31/11: FOR CSC: SMC

SHEET NUMBER:

T-1



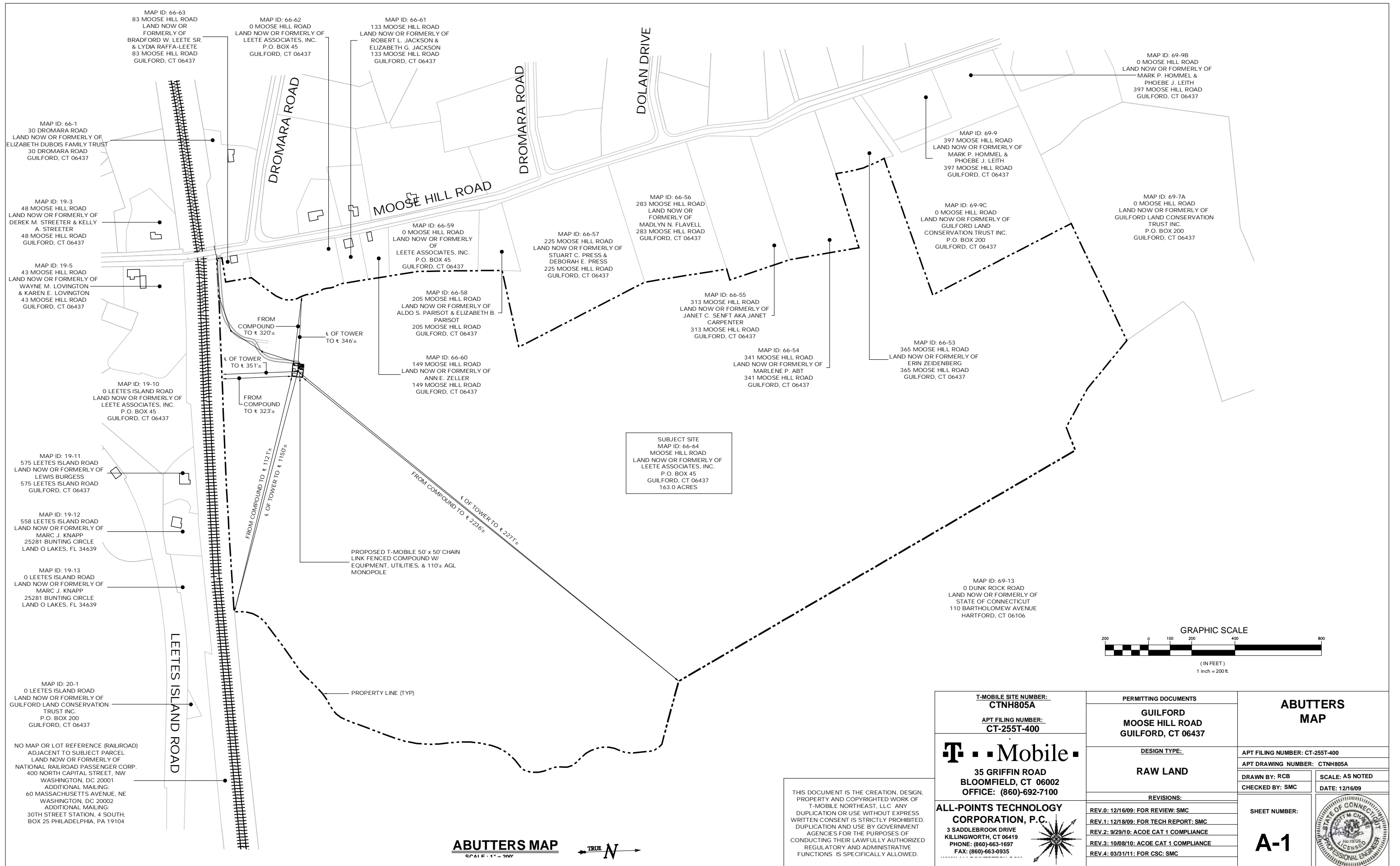
* SITE INFORMATION:

-SITE NAME:..... GUILFORD
-SITE ID NUMBER:..... CTNH805A
-SITE ADDRESS:..... MOOSE HILL ROAD
GUILFORD, CT 06437

-MAP:..... 66
-BLOCK:..... N/A
-LOT:..... 64

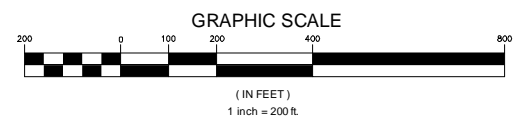
-ZONE:..... R-8
-LATITUDE:..... 41° 16' 02.88" N
-LONGITUDE:..... 72° 42' 57.81" W
-ELEVATION:..... 52± AMSL
-FEMA/FIRM DESIGNATION:..... ZONE 'C'
-ACREAGE:..... 163.0 Ac

THIS DOCUMENT IS THE CREATION, DESIGN, PROPERTY AND COPYRIGHTED WORK OF T-MOBILE NORTHEAST, LLC ANY DUPLICATION OR USE WITHOUT EXPRESS WRITTEN CONSENT IS STRICTLY PROHIBITED. DUPLICATION AND USE BY GOVERNMENT AGENCIES FOR THE PURPOSES OF CONDUCTING THEIR LAWFULLY AUTHORIZED REGULATORY AND ADMINISTRATIVE FUNCTIONS IS SPECIFICALLY ALLOWED.



SUBJECT SITE
 MAP ID: 66-64
 MOOSE HILL ROAD
 LAND NOW OR FORMERLY OF
 LEETE ASSOCIATES, INC.
 P.O. BOX 45
 GUILFORD, CT 06437
 163.0 ACRES

PROPOSED T-MOBILE 50' x 50' CHAIN
 LINK FENCED COMPOUND W/
 EQUIPMENT, UTILITIES, & 110'± AGL
 MONOPOLE



T-Mobile 35 GRIFFIN ROAD BLOOMFIELD, CT 06002 OFFICE: (860)-692-7100	T-MOBILE SITE NUMBER: CTNH805A	PERMITTING DOCUMENTS GUILFORD MOOSE HILL ROAD GUILFORD, CT 06437	ABUTTERS MAP
	APT FILING NUMBER: CT-255T-400	DESIGN TYPE: RAW LAND	APT FILING NUMBER: CT-255T-400 APT DRAWING NUMBER: CTNH805A DRAWN BY: RCB CHECKED BY: SMC SCALE: AS NOTED DATE: 12/16/09
ALL-POINTS TECHNOLOGY CORPORATION, P.C. 3 SADDLEBROOK DRIVE KILLINGWORTH, CT 06419 PHONE: (860)-663-1697 FAX: (860)-663-0935	REVISIONS: REV.0: 12/16/09: FOR REVIEW: SMC REV.1: 12/18/09: FOR TECH REPORT: SMC REV.2: 9/29/10: ACOE CAT 1 COMPLIANCE REV.3: 10/08/10: ACOE CAT 1 COMPLIANCE REV.4: 03/31/11: FOR CSC: SMC	SHEET NUMBER: A-1	

ABUTTERS MAP
 SCALE: 1" = 200'
 TRUE N

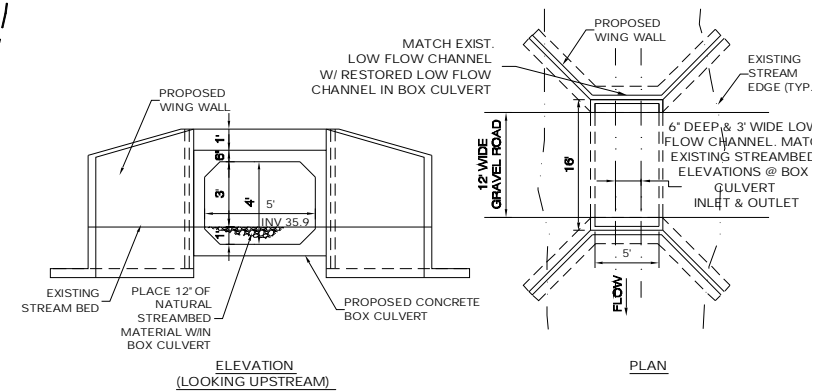
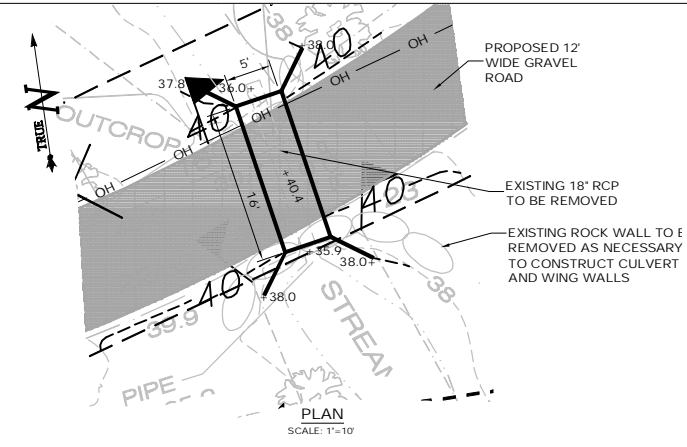
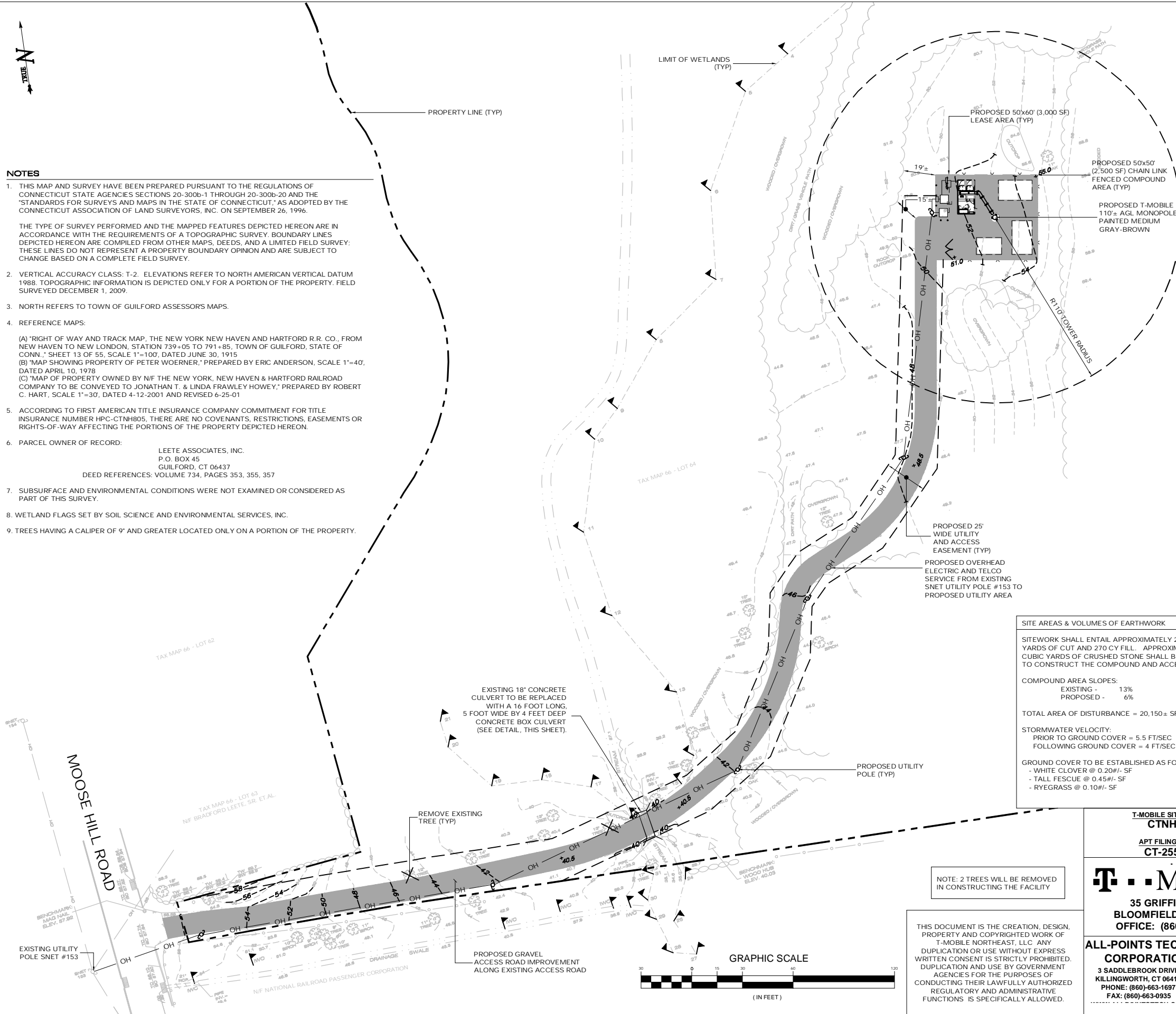
NO MAP OR LOT REFERENCE (RAILROAD)
 ADJACENT TO SUBJECT PARCEL
 LAND NOW OR FORMERLY OF
 NATIONAL RAILROAD PASSENGER CORP.
 400 NORTH CAPITAL STREET, NW
 WASHINGTON, DC 20001
 ADDITIONAL MAILING:
 60 MASSACHUSETTS AVENUE, NE
 WASHINGTON, DC 20002
 ADDITIONAL MAILING:
 30TH STREET STATION, 4 SOUTH,
 BOX 25 PHILADELPHIA, PA 19104



NOTES

- THIS MAP AND SURVEY HAVE BEEN PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 20-300b-1 THROUGH 20-300b-20 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.

THE TYPE OF SURVEY PERFORMED AND THE MAPPED FEATURES DEPICTED HEREON ARE IN ACCORDANCE WITH THE REQUIREMENTS OF A TOPOGRAPHIC SURVEY. BOUNDARY LINES DEPICTED HEREON ARE COMPILED FROM OTHER MAPS, DEEDS, AND A LIMITED FIELD SURVEY; THESE LINES DO NOT REPRESENT A PROPERTY BOUNDARY OPINION AND ARE SUBJECT TO CHANGE BASED ON A COMPLETE FIELD SURVEY.
- VERTICAL ACCURACY CLASS: T-2. ELEVATIONS REFER TO NORTH AMERICAN VERTICAL DATUM 1988. TOPOGRAPHIC INFORMATION IS DEPICTED ONLY FOR A PORTION OF THE PROPERTY. FIELD SURVEYED DECEMBER 1, 2009.
- NORTH REFERS TO TOWN OF GUILFORD ASSESSORS MAPS.
- REFERENCE MAPS:
(A) "RIGHT OF WAY AND TRACK MAP, THE NEW YORK NEW HAVEN AND HARTFORD R.R. CO., FROM NEW HAVEN TO NEW LONDON, STATION 739+05 TO 791+85, TOWN OF GUILFORD, STATE OF CONN.," SHEET 13 OF 55, SCALE 1"=100', DATED JUNE 30, 1915
(B) "MAP SHOWING PROPERTY OF PETER WOERNER," PREPARED BY ERIC ANDERSON, SCALE 1"=40', DATED APRIL 10, 1978
(C) "MAP OF PROPERTY OWNED BY N/F THE NEW YORK, NEW HAVEN & HARTFORD RAILROAD COMPANY TO BE CONVEYED TO JONATHAN T. & LINDA FRAWLEY HOWEY," PREPARED BY ROBERT C. HART, SCALE 1"=30', DATED 4-12-2001 AND REVISED 6-25-01
- ACCORDING TO FIRST AMERICAN TITLE INSURANCE COMPANY COMMITMENT FOR TITLE INSURANCE NUMBER HPC-CTNH805, THERE ARE NO COVENANTS, RESTRICTIONS, EASEMENTS OR RIGHTS-OF-WAY AFFECTING THE PORTIONS OF THE PROPERTY DEPICTED HEREON.
- PARCEL OWNER OF RECORD:
LEETE ASSOCIATES, INC.
P.O. BOX 45
GUILFORD, CT 06437
DEED REFERENCES: VOLUME 734, PAGES 353, 355, 357
- SUBSURFACE AND ENVIRONMENTAL CONDITIONS WERE NOT EXAMINED OR CONSIDERED AS PART OF THIS SURVEY.
- WETLAND FLAGS SET BY SOIL SCIENCE AND ENVIRONMENTAL SERVICES, INC.
- TREES HAVING A CALIPER OF 9" AND GREATER LOCATED ONLY ON A PORTION OF THE PROPERTY.



- BOX CULVERT DETAIL**
- NOTES:**
- PRECAST CONCRETE BOX STRUCTURE (INCLUDING WING WALLS) SHALL INCLUDE SUFFICIENT STEEL REINFORCEMENT FOR TEMPERATURE AND SHRINKAGE, TRANSPORT, AND TO ALLOW THE STRUCTURE TO WITHSTAND AASHTO H-20 LOADING AT THE COVER CONDITIONS SHOWN ON THE PLANS.
 - ALL SHOP DRAWINGS FOR PRECAST CONCRETE STRUCTURES SHALL INCLUDE MANUFACTURER'S CERTIFICATION THAT THE STRUCTURES ARE DESIGNED TO WITHSTAND THE LOADS NOTED ABOVE AND TO BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
 - ALL PRECAST STRUCTURES SHALL BE MANUFACTURED WITH 4000 PSI / 28 DAY STRENGTH CONCRETE.
 - UNCONFINED INSTREAM ACTIVITIES MUST BE PERFORMED BETWEEN JUNE 1 AND SEPTEMBER 30 PER CONNECTICUT DEP.
 - FILL BOX CULVERT WITH NATURAL STREAMBED MATERIAL TO RESTORE ORIGINAL STREAMBED ELEVATION. PROVIDE 6" DEEP AND 3' WIDE LOW FLOW CHANNEL IN CULVERT - FIELD LOCATE.

SITE AREAS & VOLUMES OF EARTHWORK

SITWORK SHALL ENTAIL APPROXIMATELY 203 CUBIC YARDS OF CUT AND 270 CY FILL. APPROXIMATELY 215 CUBIC YARDS OF CRUSHED STONE SHALL BE IMPORTED TO CONSTRUCT THE COMPOUND AND ACCESS ROAD.

COMPOUND AREA SLOPES:
EXISTING - 13%
PROPOSED - 6%

TOTAL AREA OF DISTURBANCE = 20,150± SF

STORMWATER VELOCITY:
PRIOR TO GROUND COVER = 5.5 FT/SEC
FOLLOWING GROUND COVER = 4 FT/SEC

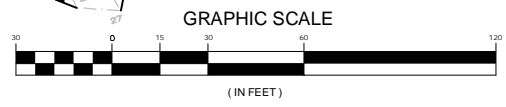
GROUND COVER TO BE ESTABLISHED AS FOLLOWS:
- WHITE CLOVER @ 0.20#/- SF
- TALL FESCUE @ 0.45#/- SF
- RYEGRASS @ 0.10#/- SF

LEGEND

	CURB		DRAINAGE INLET / STRUCTURE
	DROP CURB		CATCH BASIN
	WALL		SIGN
	STONE WALL		LIGHT POLE
	EDGE OF PAVEMENT		UTILITY POLE
	OVERHEAD WIRES		CHAIN LINK FENCE
	STRUCTURE - MANHOLE		CONTOURS
	GAS VALVE		TOP/BOTTOM OF CURB
	WATER VALVE		SPOT ELEVATION
	HANDICAP PARKING		CONCRETE
	PARKING STALL COUNT		GUY WIRE

NOTE: 2 TREES WILL BE REMOVED IN CONSTRUCTING THE FACILITY

THIS DOCUMENT IS THE CREATION, DESIGN, PROPERTY AND COPYRIGHTED WORK OF T-MOBILE NORTHEAST, LLC. ANY DUPLICATION OR USE WITHOUT EXPRESS WRITTEN CONSENT IS STRICTLY PROHIBITED. DUPLICATION AND USE BY GOVERNMENT AGENCIES FOR THE PURPOSES OF CONDUCTING THEIR LAWFULLY AUTHORIZED REGULATORY AND ADMINISTRATIVE FUNCTIONS IS SPECIFICALLY ALLOWED.



T-Mobile

T-MOBILE SITE NUMBER:
CTNH805A

APT FILING NUMBER:
CT-255T-400

35 GRIFFIN ROAD
BLOOMFIELD, CT 06002
OFFICE: (860)-692-7100

ALL-POINTS TECHNOLOGY CORPORATION, P.C.

3 SADDLEBROOK DRIVE
KILLINGWORTH, CT 06419
PHONE: (860)-663-1697
FAX: (860)-663-0935

PERMITTING DOCUMENTS

GUILFORD MOOSE HILL ROAD GUILFORD, CT 06437

DESIGN TYPE:

RAW LAND

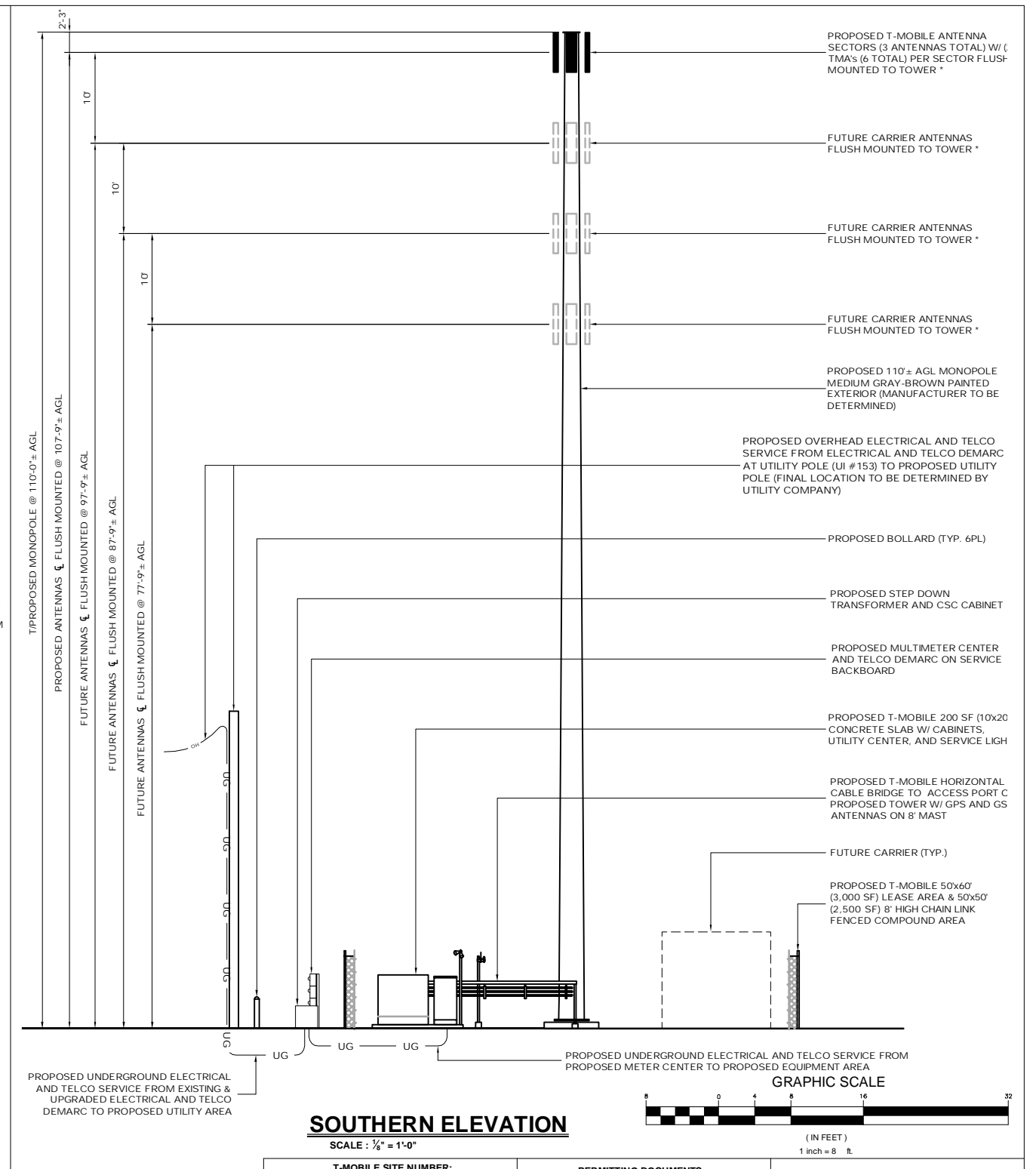
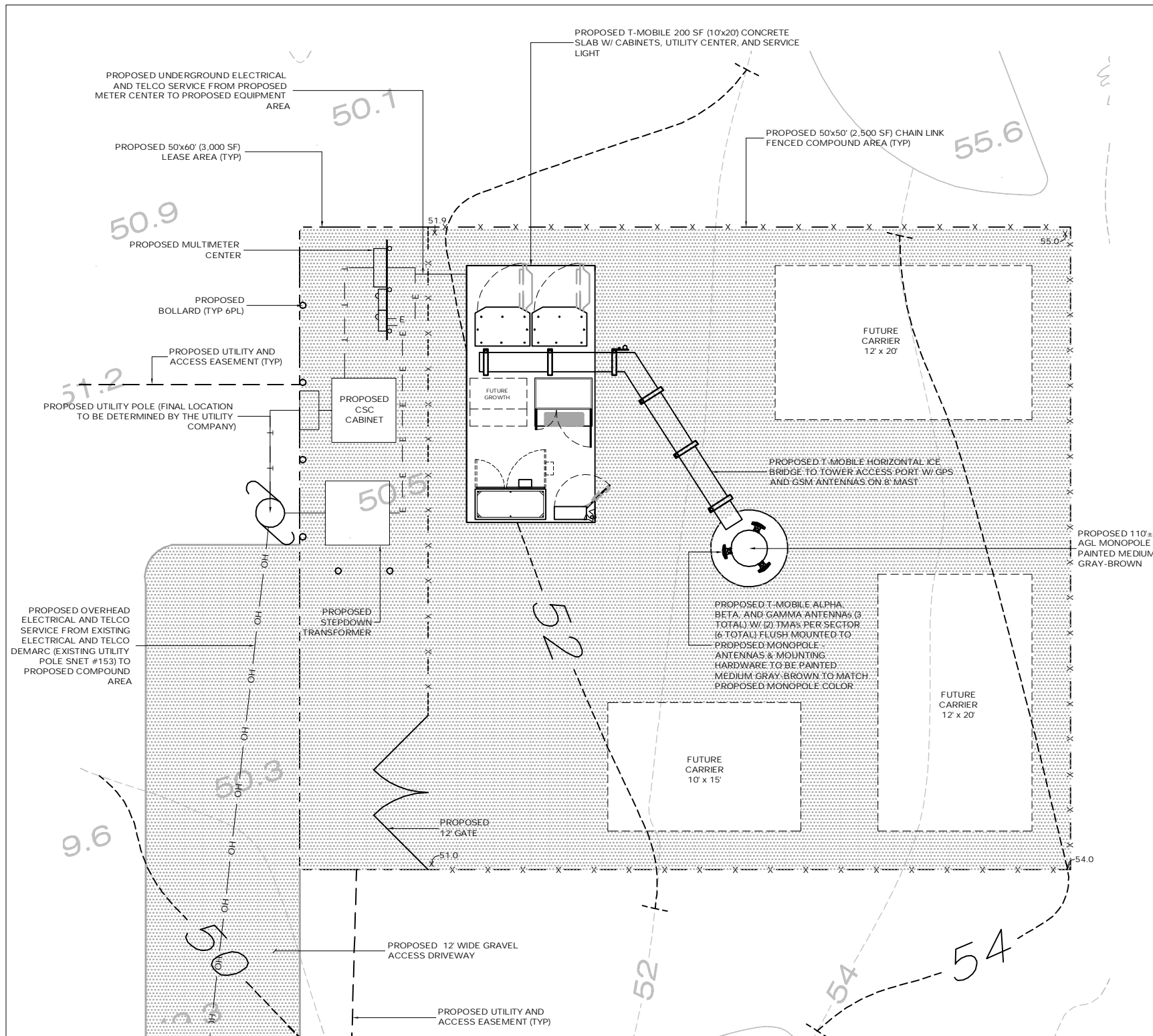
REVISIONS:

REV.0: 12/16/09: FOR REVIEW: SMC
REV.1: 12/18/09: FOR TECH REPORT: SMC
REV.2: 9/29/10: ACOE CAT 1 COMPLIANCE
REV.3: 10/08/10: ACOE CAT 1 COMPLIANCE
REV.4: 03/31/11: FOR CSC: SMC

SITE PLAN

APT FILING NUMBER: CT-255T-400
APT DRAWING NUMBER: CTNH805A
DRAWN BY: RCB
CHECKED BY: SMC
SCALE: AS NOTED
DATE: 12/16/09

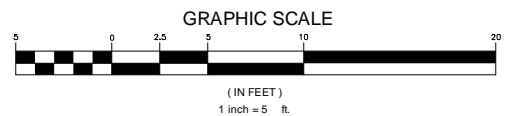
SHEET NUMBER:
SP-1



ENGINEERING ANALYSIS AND CERTIFICATION

IN ACCORDANCE WITH THE 2005 CONNECTICUT STATE BUILDING CODE AND THE ELECTRONIC INDUSTRIES ASSOCIATION STANDARD EIA/TIA-222-F "STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORT STRUCTURES" FOR NEW HAVEN COUNTY, THE TOWER WOULD BE DESIGNED TO WITHSTAND PRESSURES EQUIVALENT TO A MAXIMUM 115 MPH WIND. THE FOUNDATION DESIGN WOULD BE BASED ON SOIL CONDITIONS AT THE SITE.

COMPOUND PLAN
SCALE: 1" = 5'-0"



* NOTE: ALL ANTENNAS & MOUNTING HARDWARE TO BE PAINTED MEDIUM GRAY-BROWN TO MATCH PROPOSED MONOPOLE COLOR

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SOUTHERN ELEVATION
SCALE: 3/8" = 1'-0"

T-MOBILE SITE NUMBER:
CTNH805A

APT FILING NUMBER:
CT-255T-400

T-Mobile

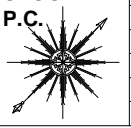
35 GRIFFIN ROAD
BLOOMFIELD, CT 06002
OFFICE: (860)-692-7100

PERMITTING DOCUMENTS	
GUILFORD MOOSE HILL ROAD GUILFORD, CT 06437	
DESIGN TYPE:	
RAW LAND	
REVISIONS:	
REV. 0: 12/16/09: FOR REVIEW: SMC	
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REV. 3: 10/08/10: ACOE CAT 1 COMPLIANCE	
REV. 4: 03/31/11: FOR CSC: SMC	

COMPOUND PLAN & TOWER ELEVATION	
APT FILING NUMBER: CT-255T-400	
APT DRAWING NUMBER: CTNH805A	
DRAWN BY: RCB	SCALE: AS NOTED
CHECKED BY: SMC	DATE: 12/16/09
SHEET NUMBER:	
SP-2	

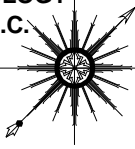
ALL-POINTS TECHNOLOGY CORPORATION, P.C.

3 SADDLEBROOK DRIVE
KILLINGWORTH, CT 06419
PHONE: (860)-663-1697
FAX: (860)-663-0935



ALL-POINTS TECHNOLOGY CORPORATION, P.C.

3 SADDLEBROOK DRIVE
KILLINGWORTH, CT, 06419
PHONE: (860)-663-1697
FAX: (860)-663-0935
www.allpointstech.com



APT FILING NUMBER: CT-255T-400

AERIAL MAP

SCALE: AS NOTED

DRAWN BY: RCB

DATE: 03/31/11

CHECKED BY: SMC

T-Mobile

35 GRIFFIN ROAD
BLOOMFIELD, CT 06002
OFFICE: (860)-692-7100

T-MOBILE SITE NUMBER
CTNH805A

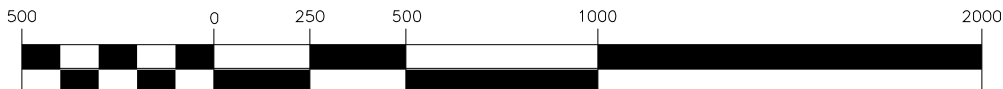
GUILFORD
MOOSE HILL ROAD
GUILFORD, CT 06437



AERIAL MAP
SCALE : 1" = 500'-0"

SITE

GRAPHIC SCALE



(IN FEET)
1 inch = 500ft.

SOURCE: DIGITAL GLOBAL 2010
DIGITAL ORTHOPHOTOGRAPHS

EXHIBIT D

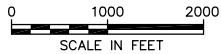


**PROJECT
LOCATION**

1

1989 USGS TOPO MAP: GUILFORD 41072-C6

SCALE: 1" = 2000'



Drawing Copyright © 2009



2139 Silas Deane Highway, Suite 212 · Rocky Hill, CT 06067-2336
Main: (860) 257-4667 · www.chacompanies.com

**T-MOBILE
NORTHEAST LLC**

35 GRIFFIN ROAD
BLOOMFIELD, CT 06002
OFFICE: (860)-692-7100

CTNH805A
AMTRAK GUILFORD
MOOSE HILL ROAD
GUILFORD, CT 06437

CHA PROJ. NO. - 14957-2001

SHEET TITLE:
USGS TOPO MAP

DATE:
11/24/09

REVISION:
0

EXHIBIT E

CERTIFICATION OF SERVICE

I hereby certify that on this, the 12th day of May, 2011, copies of the Application and Attachments were sent by Federal Express to the following:

GUILFORD TOWN OFFICIALS (*General Statutes § 16-50l(b)(1)*)

Joseph S. Mazza, First Selectman
Town of Guilford
31 Park Street
Guilford, CT 06437

Planning & Zoning Commission
Raymond Bower, Chairman
Town Hall South
50 Boston Street
Guilford, CT 06437

Zoning Board of Appeals
Dennis Dostert, Chairman
Town Hall South
50 Boston Street
Guilford, CT 06437

Conservation Commission
Shelley Green, Chairman
Town Hall South
50 Boston Street
Guilford, CT 06437

Inland Wetlands Commission
Doug Summerton, Chairman
Town Hall South
50 Boston Street
Guilford, CT 06437

Janice G. Teft, Town Clerk
Town Hall
31 Park Street
Guilford, CT 06437

Shirley Girioni, Co-Chair
Scenic Roads Advisory Committee
Town Hall
31 Park Street
Guilford, CT 06437

Karyl Lee Hall, Co-Chair
Scenic Roads Advisory Committee
P.O. Box 3072
Branford, CT 06405

ATTORNEY GENERAL (General Statutes § 16-501(b)(2))

Office of the Attorney General
State of Connecticut
Attorney General George C. Jepsen
55 Elm Street
Hartford, CT 06106

LEGISLATIVE MEMBERS (General Statutes § 16-501(b)(3))

United States Senator Joseph I. Lieberman
One Constitution Plaza, 7th Floor
Hartford, CT 06103

United States Senator Richard Blumenthal
30 Lewis Street, Suite 101
Hartford, CT 06103

United States Congresswoman Rosa L. DeLauro
Main District Office
59 Elm Street
New Haven, CT 06510

Connecticut State Senator Edward Meyer
Legislative Office Building
300 Capital Avenue, Room 3200
Hartford, CT 06106

Connecticut State House Representative Noreen Kokoruda
Legislative Office Building
300 Capital Avenue, Room 4200
Hartford, CT 06106

Connecticut State House Representative Patricia M. Widlitz
Legislative Office Building
300 Capital Avenue, Room 3703
Hartford, CT 06106

FEDERAL AGENCIES (General Statutes § 16-501(b)(4))

Federal Communications Commission
Office of the Secretary
9300 East Hampton Drive
Capitol Heights, MD 20743

Federal Aviation Administration
New England Region
12 New England Executive Park
Burlington, MA 01803

STATE AGENCIES (General Statutes § 16-501(b)(5))

South Central Regional Council of Governments
c/o Carl Amenta, Executive Director
127 Washington Avenue, 4th Floor West
North Haven, CT 06473-1715

Connecticut Department of Environmental Protection
c/o Daniel C. Esty, Commissioner
79 Elm Street
Hartford, CT 06106-5127

Department of Public Health
c/o Dr. Jewel Mullen, Commissioner
410 Capitol Avenue
Hartford, CT 06134

Department of Agriculture
c/o Steven Reviczky, Commissioner
165 Capitol Avenue
Hartford, CT 06106

Connecticut Department of Public Utility Control
c/o Kevin M. DelGobbo, Chairman
Ten Franklin Square
New Britain, CT 06051

Office of Policy and Management
c/o Secretary Benjamin Barnes
450 Capitol Avenue
Hartford, CT 06106-1379

Department of Economic & Community Development
c/o Catherine Smith, Commissioner
505 Hudson Street
Hartford, CT 06106

Connecticut Department of Transportation
c/o James P. Redeker, Acting Commissioner
2800 Berlin Turnpike
Newington, CT 06111

Connecticut Council on Environmental Quality
c/o Karl J. Wagener, Executive Director
79 Elm Street
Hartford, CT 06106

Connecticut Commission on Culture & Tourism –
Historic Preservation and Museum Division
c/o David Bahlman, Division Director
One Constitution Plaza, Second Floor
Hartford, CT 06103

Connecticut Department of Emergency Management & Homeland Security
c/o Peter J. Boynton, Commissioner
25 Sigourney Street, 6th Floor
Hartford, CT 06106-5042

Connecticut Siting Council
c/o Robert Stein, Chairman
Ten Franklin Square
New Britain, CT 06051

Respectfully submitted,

T-MOBILE NORTHEAST LLC

By: 

Julie D. Kohler, Esq.

Jesse A. Langer, Esq.

Cohen and Wolf, P.C.

1115 Broad Street

Bridgeport, CT 06604

Tel. (203) 368-0211

Fax (203) 394-9901

jkohler@cohenandwolf.com

jlanger@cohenandwolf.com

EXHIBIT F

AFFIDAVIT OF PUBLICATION

New Haven Register

STATE OF CONNECTICUT

County of New Haven

I, S. Quinn of New Haven

Connecticut, being duly sworn, do depose and say that I am Sales Rep

of the New Haven Register, and that on the following date April 10, 2011 to wit: 2011

there was published in the regular daily edition of the said newspaper an advertisement,

PUBLIC NOTICE

Pursuant to General Statutes § 16-50/ and § 16-501-1 of the regulations of Connecticut State Agencies, notice is hereby given that T-Mobile Northeast LLC ("T-Mobile") will file an application with the Connecticut Siting Council ("Council"). T-Mobile will file an Application for a Certificate of Environmental Compatibility and Public Need for the construction, maintenance and operation of a wireless communications facility at certain real property with an assessor's identification of Map 66, Parcel 64 and commonly known as Moose Hill Road, Guilford, Connecticut ("Application"). T-Mobile will file the Application on or about April 18, 2011. T-Mobile seeks to construct a new 110 foot monopole structure with antennas mounted thereon, associated equipment and other site improvements necessary for the proposed facility ("Facility"). The location, height and other features of the Facility are subject to review and change by the Council pursuant to General Statutes § 16-50g et seq.

The Facility would provide wireless service in the Town of Guilford, particularly to sections around Route 146, Moose Hill Road, Old Quarry Road and Corncrib Hill Road, south of Interstate 95, as well as the surrounding area and the Amtrak rail line that passes through the area. The Facility would also enhance the coverage for emergency services in this area. The Application will set forth the need, purpose and benefits of the Facility and will also describe the environmental impact, if any, of the Facility.

T-Mobile will conduct a balloon float at the proposed height of the Facility on the day of the public hearing on the Application as scheduled by the Council. The Council will provide notice of the public hearing date. The Council will conduct that public hearing in Guilford. The balloon float will take place between 12:00p.m. to 5:00p.m. or as set by the Council.

Interested parties and residents of the Town of Guilford are invited to

review the Application during normal business hours at and of the following offices:

Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

Town Clerk
Town of Guilford
31 Park Street
Guilford, CT 06437

or at the offices of T-Mobile's legal counsel:

Julie D. Kohler, Esq.
Jesse A. Langer, Esq.
Cohen and Wolf, P.C.
1115 Broad Street
Bridgeport, CT 06604
Tel. (203) 368-0211
Fax (203) 394-9901

All inquiries should be addressed to the Council or to T-Mobile's legal counsel as listed above.

1978
nnexed were clipped from each of the above-named issues of said newspaper.

..... day of April 20 11 before me.

Mary Feulner
My Commission Expires 10/31/2012

Notary Public

PUBLIC NOTICE

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Town of Guilford
31 Park Street
Guilford, CT 06437

or at the offices of T-Mobile's legal counsel:

Julie D. Kohler, Esq.
Jesse A. Langer, Esq.
Cohen and Wolf, P.C.
1115 Broad Street
Bridgeport, CT 06604
Tel. (203) 368-0211
Fax (203) 394-9901

All inquiries should be addressed to the Council or to T-Mobile's legal counsel as listed above.

EXHIBIT G

CERTIFICATION OF SERVICE TO ABUTTING PROPERTY OWNERS

I hereby certify that a copy of the foregoing letter was sent by certified mail, return receipt requested, to each of the following abutting landowners:

**Bradford W. Leete, Sr. &
Lydia Raffa-Leete** (Map 66 Lot 63)
83 Moose Hill Road
Guilford, CT 06437

Leete Associates, Inc. (Map 66, Lot 62)
0 Moose Hill Road
Guilford, CT 06437

(Mailing Address:)
P.O. Box 45
Guilford, CT 06437

**Robert L. Jackson &
Elizabeth G. Jackson** (Map 66, Lot 61)
133 Moose Hill Road
Guilford, CT 06437

Leete Associates, Inc. (Map 66, Lot 59)
0 Moose Hill Road
Guilford, CT 06437

(Mailing Address:)
P.O. Box 45
Guilford, CT 06437

**Aldo S. Parisot &
Elizabeth B. Parisot** (Map 66, Lot 58)
205 Moose Hill Road
Guilford, CT 06437

**Stuart C. Press &
Deborah E. Press** (Map 66, Lot 57)
225 Moose Hill Road
Guilford, CT 06437

Madlyn N. Flavell (Map 66, Lot 56)
283 Moose Hill Road
Guilford, CT 06437

Janet C. Senft (Map 66, Lot 55)
aka Janet Carpenter
313 Moose Hill Road
Guilford, CT 06437

Marlene P. Abt (Map 66, Lot 54)
341 Moose Hill Road
Guilford, CT 06437

Erin Zeidenberg (Map 66, Lot 53)
365 Moose Hill Road
Guilford, CT 06437

Elizabeth Dubois Family Trust (Map 66, Lot 01)
30 Dromara Road
Guilford, CT 06437

State of Connecticut (Map 69, Lot 13)
0 Dunk Rock Road
Guilford, CT 06437

(Mailing Address:)
110 Bartholomew Avenue
Hartford, CT 06106

Guilford Land Conservation (Map 69, Lot 7A)
Trust Inc.
0 Moose Hill Road
Guilford, CT 06437

(Mailing Address:)
P.O. Box 200
Guilford, CT 06437

Guilford Land Conservation (Map 69, Lot 9C)
Trust Inc.
0 Moose Hill Road
Guilford, CT 06437

(Mailing Address:)
P.O. Box 200
Guilford, CT 06437

**Mark P. Hommel &
Phoebe J. Leith**
397 Moose Hill Road
Guilford, CT 06437

(Map 69, Lot 9 & 9B)

**Wayne M. Lovington &
Karen E. Lovington**
43 Moose Hill Road
Guilford, CT 06437

(Map 19, Lot 5)

Leete Associates, Inc.
0 Leetes Island Road
Guilford, CT 06437

(Map 19, Lot 10)

(Mailing Address:)
P.O. Box 45
Guilford, CT 06437

Lewis Burgess
575 Leetes Island Road
Guilford, CT 06437

(Map 19, Lot 11)

Marc J. Knapp
558 Leetes Island Road
Guilford, CT 06437

(Map 19, Lot 12)

(Mailing Address:)
25281 Bunting Circle
Land O Lakes, FL 33639

Marc J. Knapp
0 Leetes Island Road
Guilford, CT 06437

(Map 19, Lot 13)

(Mailing Address:)
25281 Bunting Circle
Land O Lakes, FL 33639

Ann E. Zeller
149 Moose Hill Road
Guilford, CT 06437

(Map 66, Lot 60)

**Guilford Land Conservation
Trust Inc.**

(Map 20, Lot 01)

0 Leetes Island Road
Guilford, CT 06437

(Mailing Address:)
P.O. Box 200
Guilford, CT 06437

**Derek M. Streeter &
Kelly A. Streeter**

(Map 19, Lot 3)

48 Moose Hill Road
Guilford, CT 06437

National Railroad Passenger Corp.

(No Map or Lot Ref.)

400 North Capital Street, N.W.
Washington, DC 20001

(Additional Mailing Address:)
30th Street Station, 4 South, Box 25
Philadelphia, PA 19104

(Additional Mailing Address:)
60 Massachusetts Avenue N.E.
Washington, DC 20002

Dated: May 12, 2011

By: 

Attorneys for the Applicant
Julie D. Kohler, Esq.

jkohler@cohenandwolf.com

Jesse A. Langer, Esq.

jlanger@cohenandwolf.com

COHEN AND WOLF, P.C.

1115 Broad Street
Bridgeport, CT 06604

Tel. (203) 368-0211

Fax (203) 394-9901

JESSE A. LANGER

PLEASE REPLY TO: Bridgeport

E-Mail Address: jlanger@cohenandwolf.com

April 8, 2011

VIA CERTIFIED MAIL

**Re: Proposed Telecommunications Facility
(Moose Hill Road, Guilford)**

To Whom It May Concern:

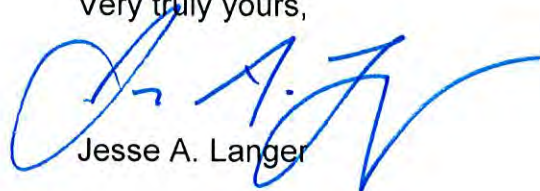
This firm represents T-Mobile Northeast LLC ("T-Mobile"). T-Mobile intends to file an Application for a Certificate for Environmental Compatibility and Public Need ("Application") with the Connecticut Siting Council ("Council") regarding certain real property with an assessor's identification of Map 66, Parcel 64 and commonly known as Moose Hill Road, Guilford ("Property"). T-Mobile seeks to construct, maintain and operate a telecommunications facility on the Property.

This letter serves as notice to you as an abutting property owner pursuant to General Statutes § 16-50f. T-Mobile will file the Application on or about April 18, 2011, and will request that the Council place the Application on some future agenda.

Please find enclosed a copy of the legal notice that will run in the "*New Haven Register*" on Sunday, April 10, 2011 and Tuesday, April 12, 2011.

If you have any questions or concerns regarding this matter, please contact our office or the Council. The Council's address is included in the enclosed copy of the legal notice.

Very truly yours,



Jesse A. Langer

Enclosure

PUBLIC NOTICE

Pursuant to General Statutes § 16-50/ and § 16-50/-1 of the Regulations of Connecticut State Agencies, notice is hereby given that T-Mobile Northeast LLC (“T-Mobile”) will file an application with the Connecticut Siting Council (“Council”). T-Mobile will file an Application for a Certificate of Environmental Compatibility and Public Need for the construction, maintenance and operation of a wireless communications facility at certain real property with an assessor’s identification of Map 66, Parcel 64 and commonly known as Moose Hill Road, Guilford, Connecticut (“Application”). T-Mobile will file the Application on or about April 18, 2011. T-Mobile seeks to construct a new 110 foot monopole structure with antennas mounted thereon, associated equipment and other site improvements necessary for the proposed facility (“Facility”). The location, height and other features of the Facility are subject to review and change by the Council pursuant to General Statutes § 16-50g *et seq.*

The Facility would provide wireless service in the Town of Guilford, particularly to sections around Route 146, Moose Hill Road, Old Quarry Road and Corncrib Hill Road, south of Interstate 95, as well as the surrounding area and the Amtrak rail line that passes through the area. The Facility would also enhance the coverage for emergency services in this area. The Application will set forth the need, purpose and benefits of the Facility and will also describe the environmental impact, if any, of the Facility.

T-Mobile will conduct a balloon float at the proposed height of the Facility on the day of the public hearing on the Application as scheduled by the Council. The Council will provide notice of the public hearing date. The Council will conduct that public

hearing in Guilford. The balloon float will take place between 12:00p.m. to 5:00p.m. or as set by the Council.

Interested parties and residents of the Town of Guilford are invited to review the Application during normal business hours at and of the following offices:

Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

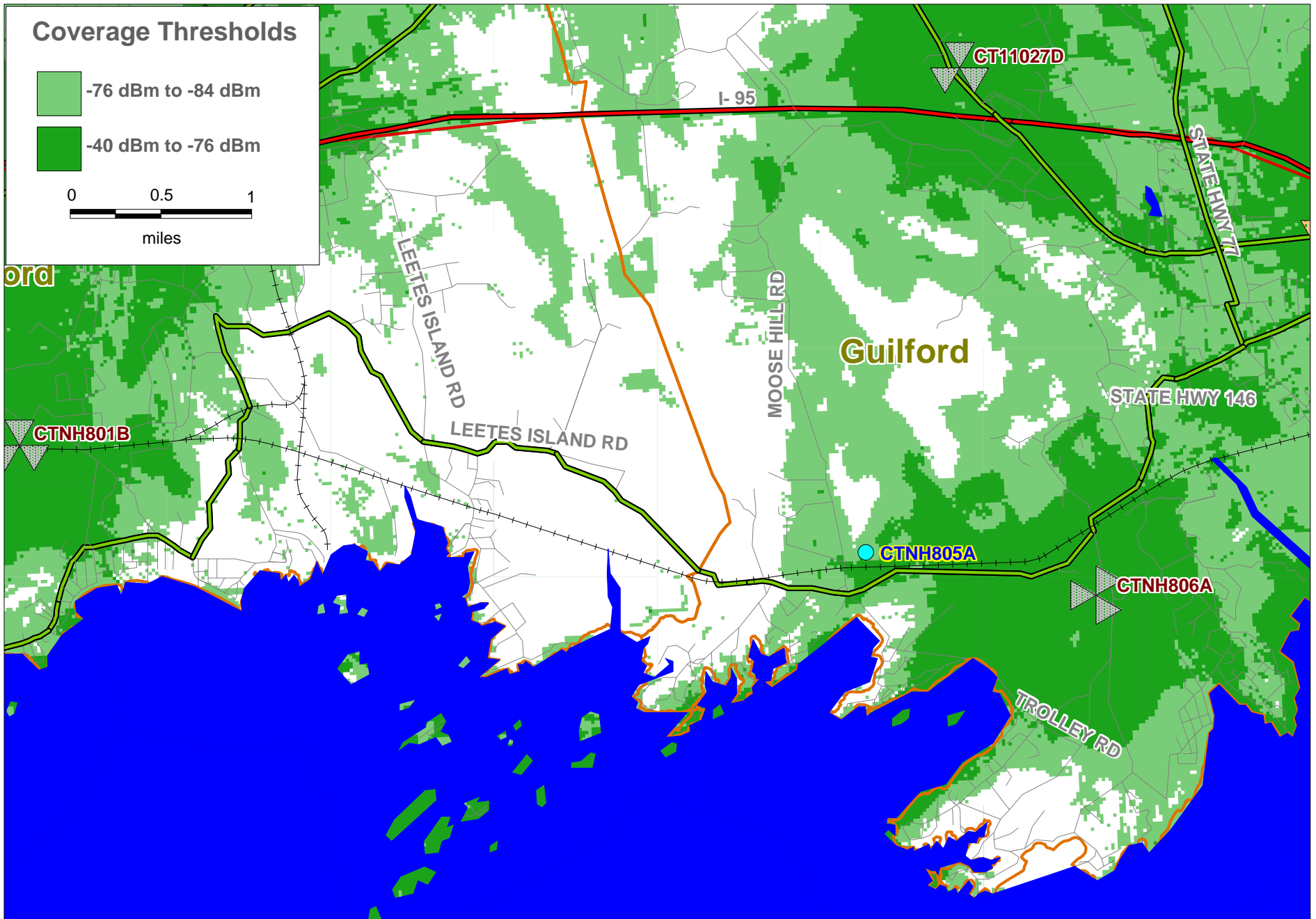
Town Clerk
Town of Guilford
31 Park Street
Guilford, CT 06437

or at the offices of T-Mobile's legal counsel:

Julie D. Kohler, Esq.
Jesse A. Langer, Esq.
Cohen and Wolf, P.C.
1115 Broad Street
Bridgeport, CT 06604
Tel. (203) 368-0211
Fax (203) 394-9901

All inquiries should be addressed to the Council or to T-Mobile's legal counsel as listed above.

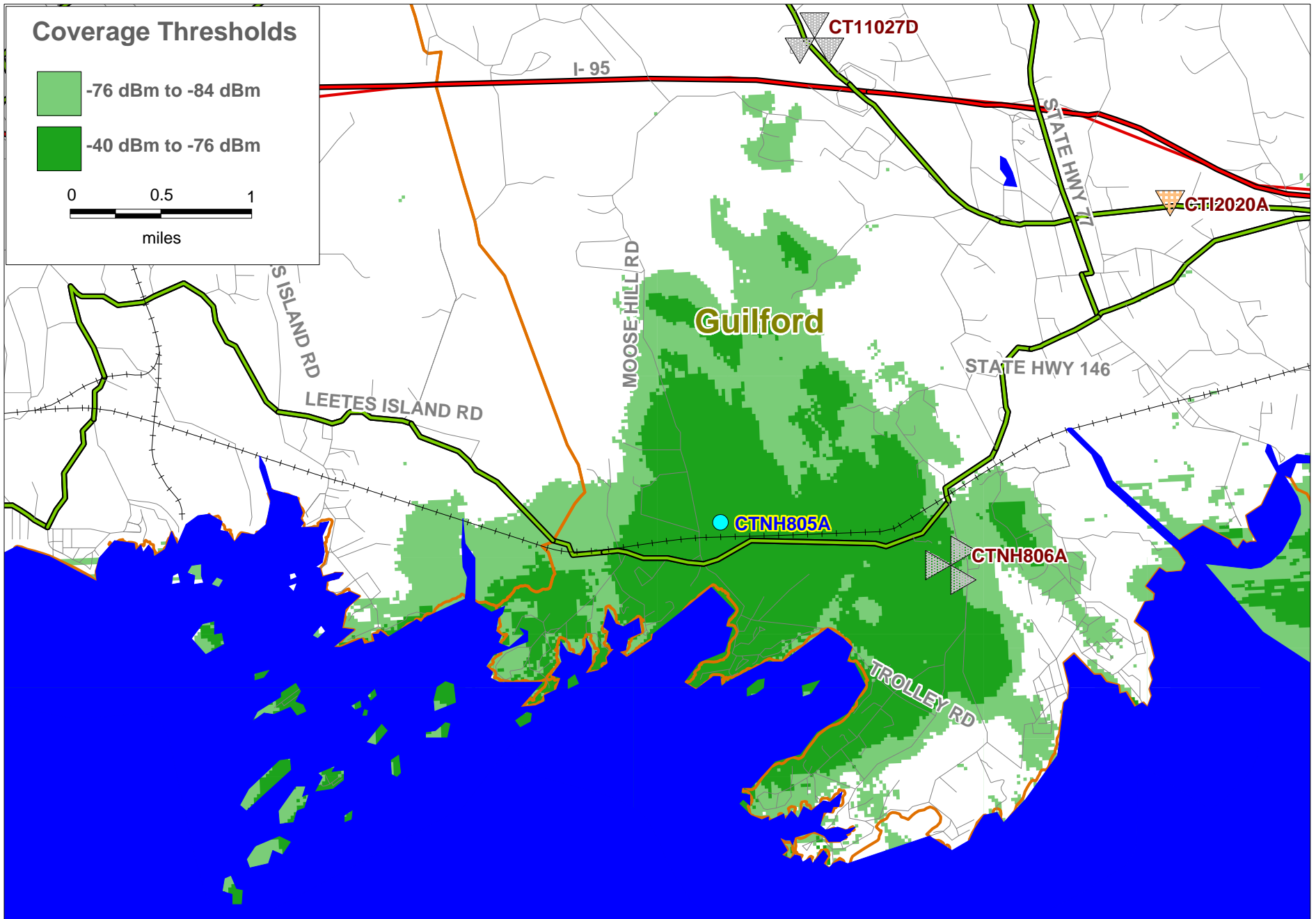
EXHIBIT H



- T-Mobile -

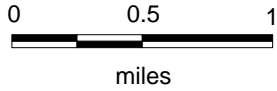
Existing T-Mobile On Air Coverage

Coverage Threshold Descriptions
 Dark Green: In-Building Coverage (Residential)
 Light Green: In-Vehicle Coverage



Coverage Thresholds

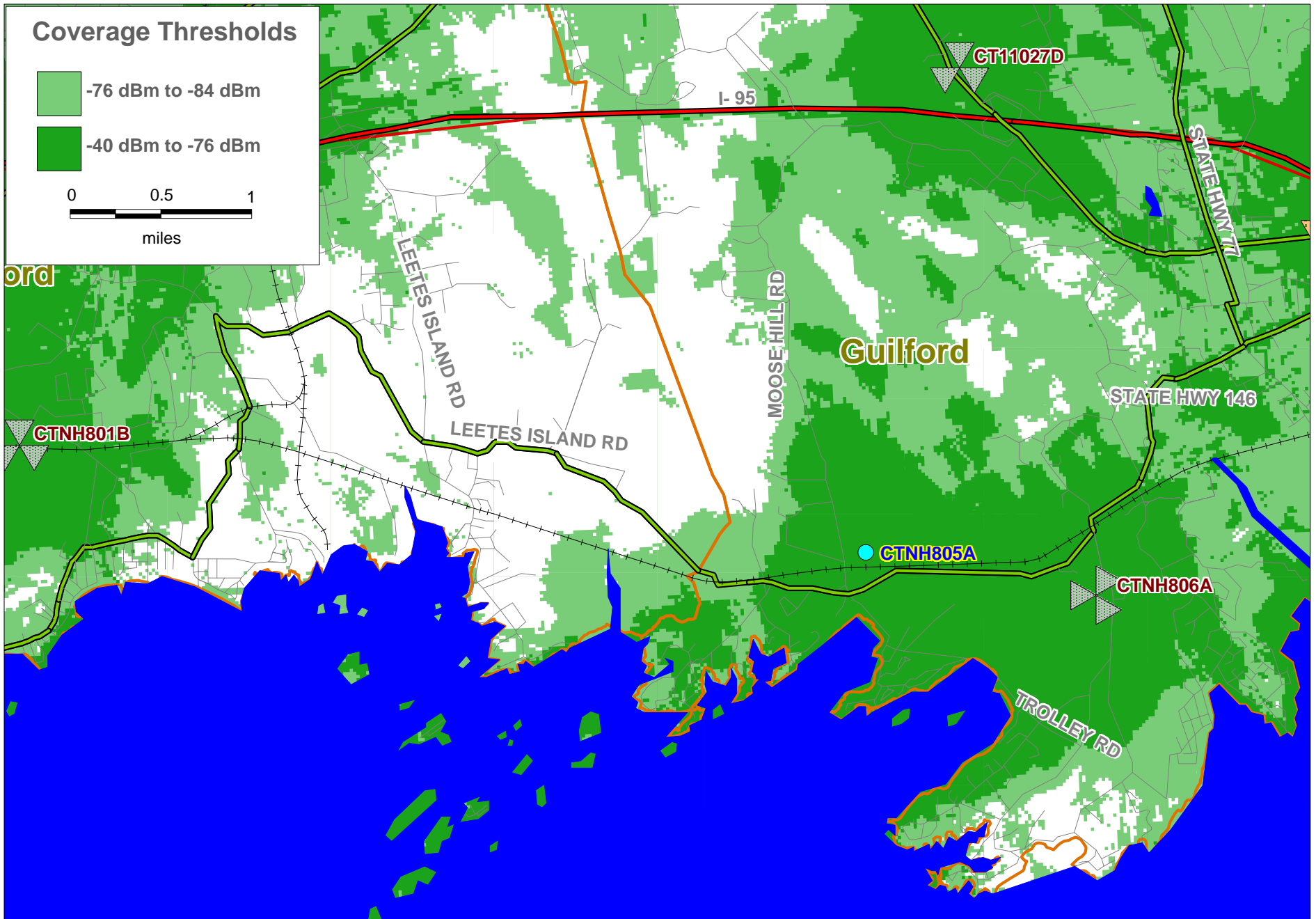
- 76 dBm to -84 dBm
- 40 dBm to -76 dBm



- T-Mobile -

CTNH805A @ 107 feet

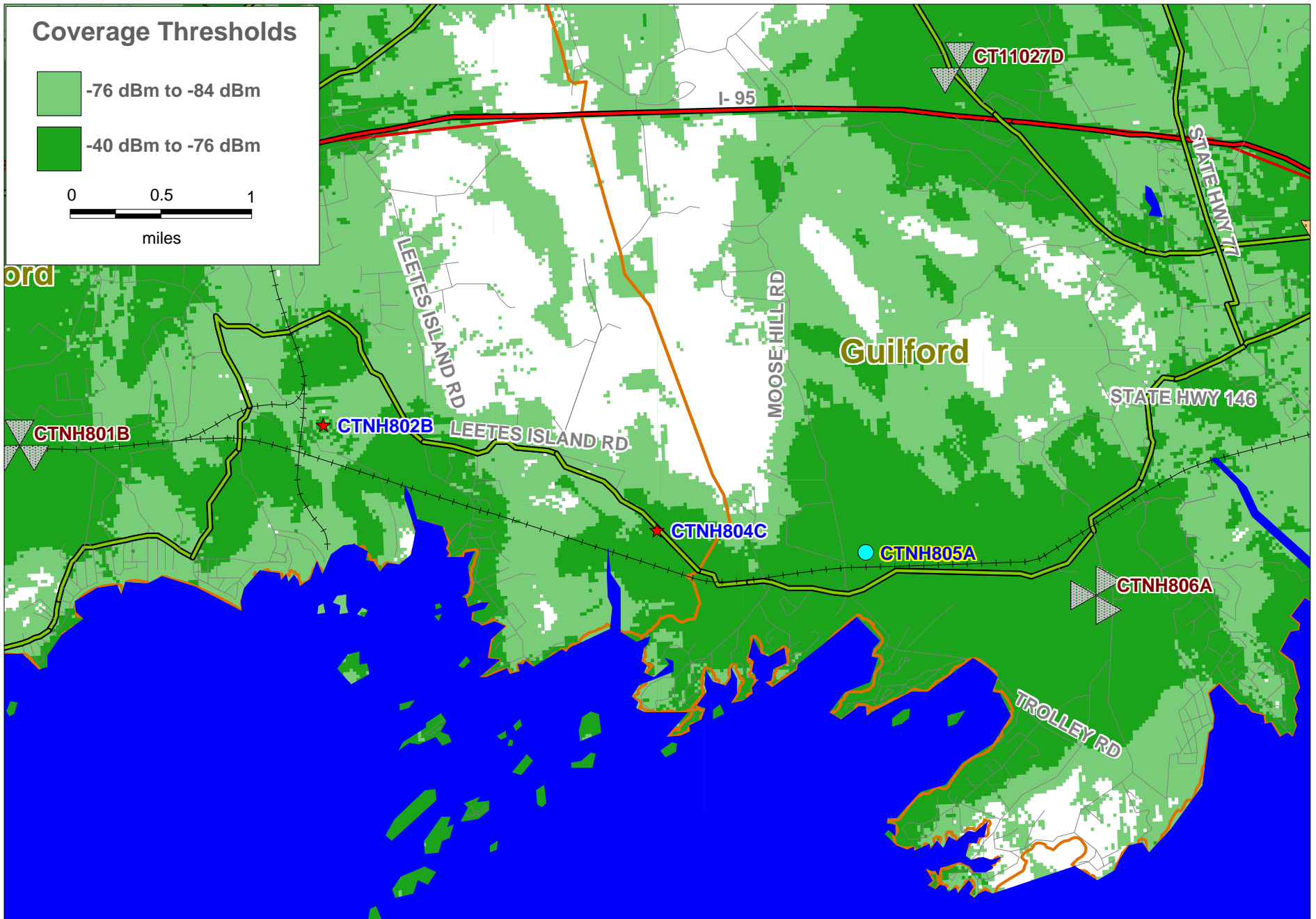
Coverage Threshold Descriptions
 Dark Green: In-Building Coverage (Residential)
 Light Green: In-Vehicle Coverage



- T-Mobile -

Existing T-Mobile On Air Coverage
With CTNH805A @ 107 feet

Coverage Threshold Descriptions
Dark Green: In-Building Coverage (Residential)
Light Green: In-Vehicle Coverage

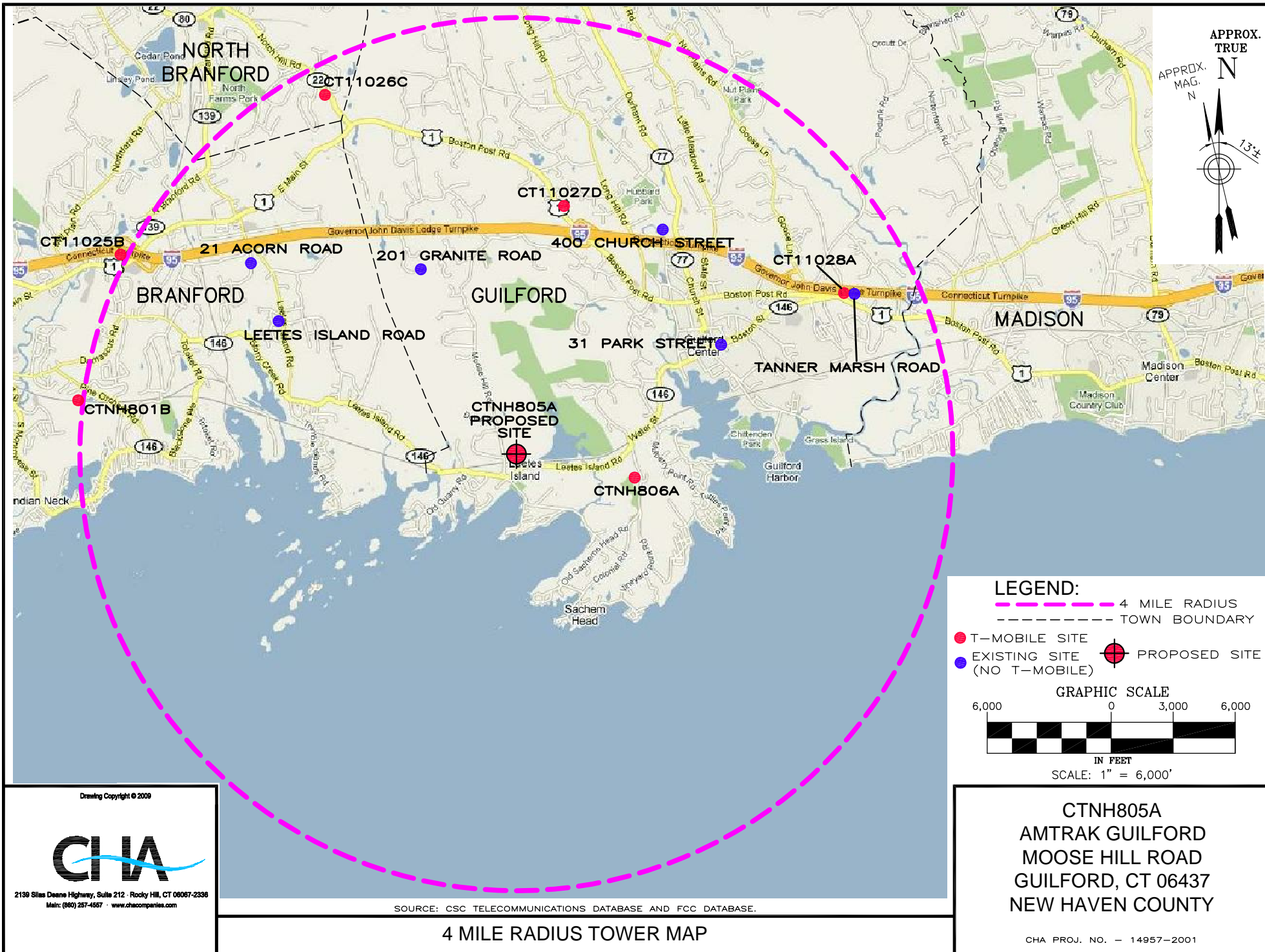


- T-Mobile -

Existing T-Mobile On Air Coverage
 With Proposed CTNH804C @ CTNH802C
 & CTNH805A @ 107 feet

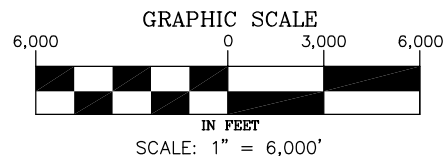
Coverage Threshold Descriptions
 Dark Green: In-Building Coverage (Residential)
 Light Green: In-Vehicle Coverage

EXHIBIT I



LEGEND:
 - - - - - 4 MILE RADIUS
 - - - - - TOWN BOUNDARY

● T-MOBILE SITE
 ● EXISTING SITE
 ● (NO T-MOBILE)
 ● PROPOSED SITE



Drawing Copyright © 2009

2130 Silas Deane Highway, Suite 212 - Rocky Hill, CT 06067-2338
 Main: (860) 287-4557 - www.chacompanies.com

CTNH805A
AMTRAK GUILFORD
MOOSE HILL ROAD
GUILFORD, CT 06437
NEW HAVEN COUNTY

SOURCE: CSC TELECOMMUNICATIONS DATABASE AND FCC DATABASE.

4 MILE RADIUS TOWER MAP

CHA PROJ. NO. - 14957-2001

EXISTING TELECOMMUNICATIONS TOWERS WITHIN FOUR MILES OF PROPOSED FACILITY

T-Mobile ID	Town	Address	Latitude	Longitude	User	Owner	Twr Type	Ant Height	Twr Height
CT11025B	Branford	10 Sylvia Street	41-17-38.1	72-47-08.6	T-Mobile		m	122.00	125.00
NA	Branford	21 Acorn Rd	41-17-34	72-45-46	Nextel	Sprint	m	120.00	150.00
	Branford	Acorn Road	41-17-34	72-45-46	Nextel	Sprint	m	120.00	150.00
	Branford	Acorn Road	41-17-34	72-45-46	SCLP	Sprint	m	105.00	150.00
	Branford	21 Acorn Rd	41-17-34	72-45-46	Metricom	Sprint	m	116.00	150.00
	Branford	21 Acorn Rd	41-17-34	72-45-46	SNET/Cingular	Sprint	m	105.00	150.00
	Branford	21 Acorn Rd	41-17-34	72-45-46	AT&T	Sprint	m	140.00	150.00
	Branford	21 Acorn Rd	41-17-34	72-45-46	Verizon	Sprint	m	116.00	150.00
	Branford	21 Acorn Rd	41-17-34	72-45-46	Cingular	Sprint	m	105.00	150.00
	Branford	21 Acorn Rd	41-17-34	72-45-46	AT&T	Sprint	m	140.00	150.00
	Branford	21 Acorn Rd	41-17-34	72-45-46	Verizon	Sprint	m	116.00	150.00
NA	Branford	21 Acorn Rd	41-17-34	72-45-46	Pocket	Sprint	m	137.00	150.00
NA	Branford	Leetes Island Rd	41-17-06.3	72-45-28.4		Robert K. Barba			100'
CTNH801B (CSC Approved)	Branford	123 Pine Orchard Road	41-16-28.4	72-47-35.5	T-Mobile		m	122.00	125.00
CT11028A	Guilford	119 Tanner Marsh Rd	41-17-19	72-39-31.7	SNET Cellular	SNET Cellular	m	150.00	150.00
	Guilford	119 Tanner Marsh Rd	41-17-19	72-39-31.7	SNET/SCLP	SNET/SCLP	m	158.27	150.00
	Guilford	119 Tanner Marsh Rd	41-17-19	72-39-31.7	SNET/SCLP/WMNR	SNET/SCLP	m	110.00	150.00
	Guilford	119 Tanner Marsh Rd	41-17-19	72-39-31.7	SNET/SCLP	SNET/SCLP	m		150.00
	Guilford	119 Tanner Marsh Rd	41-17-19	72-39-31.7	T-Mobile	SNET Cellular	m	162.00	150.00
	Guilford	119 Tanner Marsh Rd	41-17-19	72-39-31.7	Cingular	SNET Cellular	m	152.00	150.00
	Guilford	119 Tanner Marsh Rd	41-17-19	72-39-31.7	Pocket	SNET Cellular	m	119.00	150.00
	Guilford	119 Tanner Marsh Rd	41-17-19	72-39-31.7	Cingular	SNET Cellular	m	152.00	150.00
NA	Guilford	Tanner Marsh Rd. & Rt. 1	41-17-20	72-39-32	Metro Media Paging	Comm. TV (aka Heritage Cable)	ssl	60.00	94.00
	Guilford	Tanner Marsh Rd. & Rt. 1	41-17-20	72-39-32	Comm. TV (aka Heritage Cable)	Comm. TV (aka Heritage Cable)	ssl		94.00
	Guilford	10 Tanner Marsh Rd	41-17-20	72-39-32	TCI/Sprint	TCI of South Central CT	ssl	90.70	90.00
CT11027D	Guilford	1919 Boston Post Road	41-18-01.3	72-42-27.5	BAM	Sprint	m	120.00	130.00
	Guilford	1919 Boston Post Road	41-18-01.3	72-42-27.5	SCLP	Sprint	m	110.00	130.00
	Guilford	1919 Boston Post Road	41-18-01.3	72-42-27.5	Nextel	Sprint	m	100.00	130.00
	Guilford	1919 Boston Post Road	41-18-01.3	72-42-27.5	T-Mobile	Sprint	m	147.00	150.00
	Guilford	1919 Boston Post Road	41-18-01.3	72-42-27.5	Verizon	Sprint	m	122.00	150.00
	Guilford	1919 Boston Post Road	41-18-01.3	72-42-27.5	Cingular	Sprint	m	110.00	150.00
	Guilford	1919 Boston Post Road	41-18-01.3	72-42-27.5	AT&T	Sprint	m	150.00	150.00
	Guilford	1919 Boston Post Road	41-17-57.48	72-42-19.16		Global Signal	m		150.00
	Guilford	1919 Boston Post Road	41-17-57.48	72-42-19.16	Pocket	Global Signal	m	103.00	150.00
NA	Guilford	31 Park Street	41-16-55	72-40-48		Town of Guilford	ssl		100.00
NA	Guilford	400 Church Street	41-17-50	72-41-25		Town of Guilford	ssl		40.00
NA	Guilford	201 Granite Road	41-17-31.12	72-43-58.3	AT&T	AT&T	m	100.00	100.00
	Guilford	201 Granite Road	41-17-31.12	72-43-58.3	Cingular	Cingular	m	100.00	100.00
	Guilford	201 Granite Road	41-17-31.12	72-43-58.3	Pocket	Cingular	m	90.00	100.00
CT11026C	Guilford	72 Notch Hill Road, Tower #4955, Line #150	41-18-54.4	72-44-59.1	T-Mobile	CL&P	pm	118.00	108.00
CTNH806A	Guilford	188 Sachems Head Road	41-15-51.5	72-41-42.8	T-Mobile		wt	87.00	85.00
CTNH805A (Proposed Site)	Guilford	Moose Hill Road	41-16-2.9	72-42-57.9	T-Mobile		m	107.00	110.00

EXHIBIT J

Site Search Process and Selection

Section 16-50j-74(j) of the Regulations of Connecticut State Agencies requires T-Mobile to submit a statement that describes “the narrowing process by which other possible sites were considered and eliminated.” In accordance with this requirement, the description of the general site search process, the identification of the target search area and the alternative locations considered for development of the proposed telecommunications facility are provided below.

As a wireless carrier licensed by the Federal Communications Commission, T-Mobile decides to seek out a site in an area based upon the needs of its wireless infrastructure and extensive research of the subject area. T-Mobile chooses a target area central to the area in which it has identified coverage and/or capacity needs. The area targeted is the geographical location where the installation of a site would, based on general radio frequency engineering and system design standards, likely address the identified problem. T-Mobile’s goal is to locate sites that would remedy coverage or capacity issues, while resulting in the least environmental impact.

T-Mobile is sensitive to State and local desires to minimize the construction of new facilities, and it does not pursue development of a new facility where an acceptable existing structure can be found. In general, T-Mobile’s site acquisition personnel first study the target area to determine whether any suitable structure exists. If T-Mobile cannot find a structure with appropriate height and structural capabilities, it turns to industrial / commercial areas or individual parcels that have appropriate environmental and land use characteristics. The list of potential locations is limited by the willingness of property owners to make their property available. Radio frequency (“RF”) engineers study potentially suitable and available locations to determine whether the locations will meet the technical requirements for a site in the area. Analysis of potential environmental effects and benefits may further narrow the alternatives. The weight given relevant factors varies for each search, depending on the nature of the area and the availability of potential sites.

T-Mobile has identified a coverage gap in its wireless network in the area surrounding the proposed telecommunications facility (“Facility”) at Moose Hill Road, Guilford, Connecticut (“Property”). In this area of the Town of Guilford (“Town”), which is the subject of this site search, there are no existing towers, transmission line structures or other suitable structures. Moreover, any existing towers are too far from the target area to provide coverage specifically to the target area. The nearest towers and suitable structures are already in use by T-Mobile. There are no large areas of commercial or industrial use in or near the target area.

T-Mobile considered several other locations that might have addressed the coverage gap in this area of Guilford. The reasons T-Mobile did not select any of these locations are outlined below:

1. Leetes Island Road (Map 19 / Lot 013). This parcel is 8.08 acres and designated as open space. There are no existing structures on the parcel suitable for co-location. T-Mobile sent two letters to the property owner regarding the parcel and the property owner did not respond.

2. New Quarry Road (Map 66/ Lot 09B). This is a 4.99 acre parcel owned by Yale University. There are no existing structures on the parcel suitable for co-location. The parcel is located approximately 0.50 miles to the west of the coverage objective. Additionally, a telecommunications facility on this site would overlap with an anticipated Verizon site located to the west and would, as a result, require a taller facility located to the east to address coverage in that area.

3. Amtrak Right of Way. There are no suitable structures on the parcel. The Right of Way is located approximately 0.50 miles to the west of the coverage objective. Additionally, a telecommunications facility on this site would overlap with an anticipated Verizon site located to the west and would, as a result, require a taller facility located to the east to address coverage in that area.

4. Leetes Island Road (Map 19/ Lot 015). This is a large 159 acre parcel with no existing structures suitable for co-location. Leete Associates, INC. owns this parcel and is not interested in leasing any space on this parcel for a telecommunications facility.

5. Dunk Rock Road (Map 69/ Lot 013). This is a large 253 acre parcel, which is owned by the State of Connecticut. There are no existing structures on the parcel suitable for co-location. The parcel is located approximately 1 mile to the northwest of the coverage objective. T-Mobile's radio frequency ("RF") engineers reviewed the parcel and determined that it is too far from the coverage objective to afford adequate coverage.

6. Moose Hill Road (Map 69/ Lot 001). This is a 21.41 acre parcel with no existing structures suitable for co-location. Leete Associates, INC. owns this parcel and is not interested in leasing any space on this parcel for a telecommunications facility. T-Mobile's RF engineers reviewed the parcel and determined that it is too far from the coverage objective to afford adequate coverage.

7. Moose Hill Road (Map 69/ Lot 001A). This is a 31 acre parcel with no existing structures suitable for co-location. The parcel is located approximately 0.70 miles to the north of the coverage objective. T-Mobile's RF engineers reviewed the parcel and determined that it is too far from the coverage objective to afford adequate coverage.

8. Moose Hill Road (Map 69/ Lot 005). This is a 15.62 acre parcel owned by the Guilford Land Trust. There are no existing structures on the parcel suitable for co-location. The parcel is located approximately 1.1 miles to the north of the coverage objective. T-Mobile's RF engineers reviewed the parcel and determined that it is too far from the coverage objective to afford adequate coverage.

9. Moose Hill Road (Map 69/ Lot 007). This is a 6.8 acre parcel owned by the Guilford Land Trust. There are no existing structures on the parcel suitable for co-location. The parcel is located approximately 0.85 miles to the north of the coverage objective. T-Mobile's RF engineers reviewed the parcel and determined that it is too far from the coverage objective to afford adequate coverage.

10. Moose Hill Road (Map 69/ Lot 007-A). This is a 23.33 acre parcel owned by the Guilford Land Trust. There are no existing structures on the parcel suitable for co-location. The parcel is located approximately 0.75 miles to the northwest of the coverage objective. T-Mobile's RF engineers reviewed the parcel and determined that it is too far from the coverage objective to afford adequate coverage.

11. 225 Moose Hill Road (Map 66/ 57). This parcel is 8.5 acres and does not host any existing structures suitable for co-location. The parcel is located approximately 0.35 miles to the north of the coverage objective. T-Mobile's RF engineers reviewed the parcel and determined that it is too far from the coverage objective to afford adequate coverage.

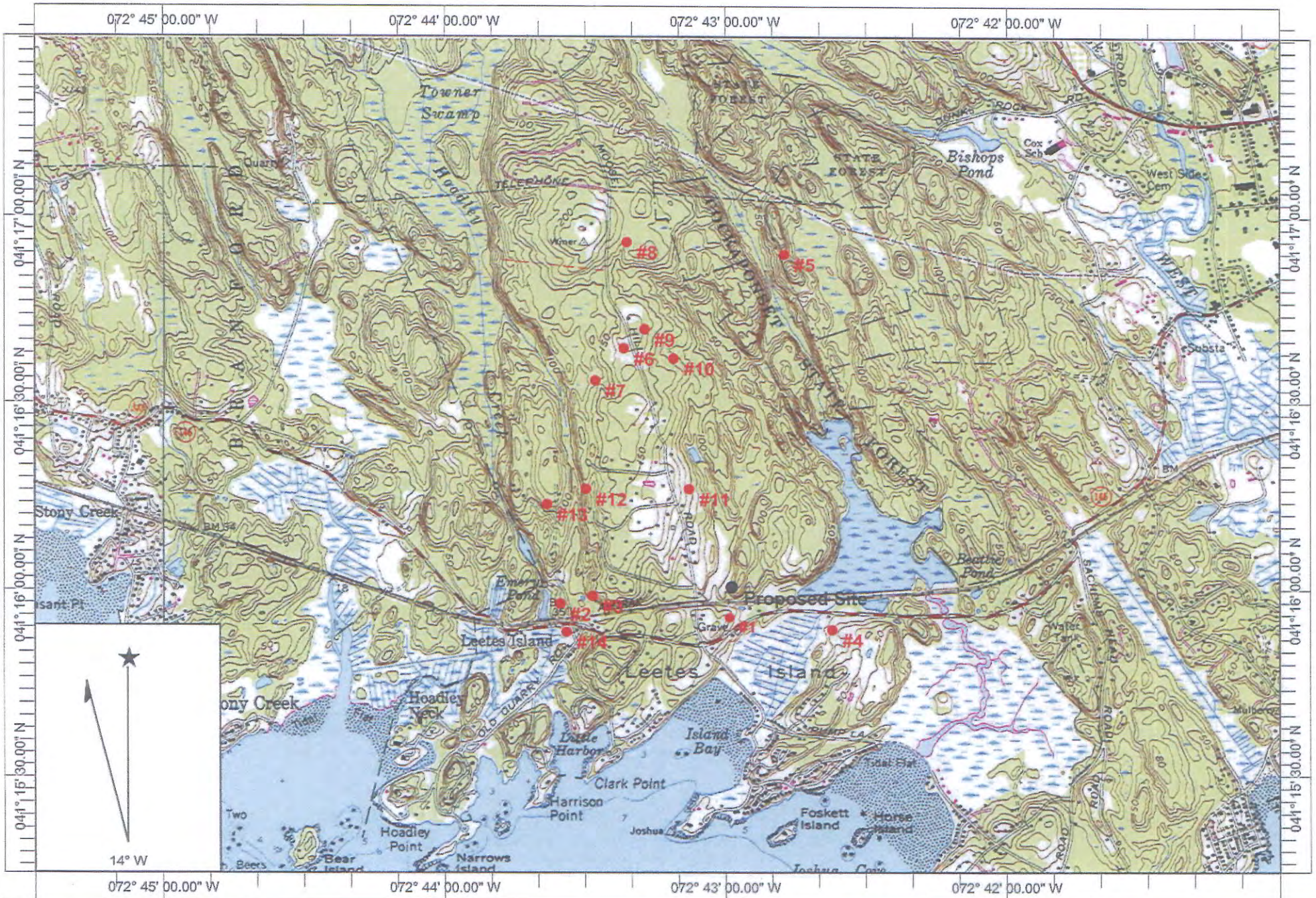
12. 204 Dromara Road (Map 66/ Lot 017). This is a 9.1 acre parcel. It does not host any existing structures suitable for co-location. The parcel is located approximately 0.50 miles northwest of the coverage objective. T-Mobile's RF engineers reviewed the parcel and determined that it is too far from the coverage objective to afford adequate coverage.

13. New Quarry Road (Map 66/ Lot 012). This is a 46.22 acre parcel. It does not host any existing structures suitable for co-location. The parcel is located approximately 0.6 miles northwest of the coverage objective. T-Mobile's RF engineers reviewed the parcel and determined that it is too far from the coverage objective to afford adequate coverage.

14. Leetes Island Road (Map 18/ Lot 018-A). This is an 8.6 acre parcel owned by the Guilford Land Trust. There are no existing structures on the parcel suitable for co-location. The parcel is located approximately 0.50 miles to the west of coverage objective. T-Mobile's RF engineers reviewed the parcel and determined that it is too far from the coverage objective to afford adequate coverage.

Consequently, T-Mobile has determined that the Property is superior to the other parcels in the area. It is a 163 acre parcel. The Property is undeveloped and hosts mature vegetation that would shield the proposed Facility. The Facility would not impact any coastal resources as the closest coastal resource is approximately 1,000 feet south of the proposed Facility.

The proposed Facility would enhance wireless service availability to existing and future T-Mobile wireless device users. Enhanced coverage provided by the Facility would allow T-Mobile subscribers to use voice and data services reliably as well as to connect to Emergency 911 services. The intended coverage area of the Facility includes sections around Route 146, Moose Hill Road, Old Quarry Road and Corn Crib Hill Road, south of Interstate 95, as well as the surrounding areas and the Amtrak rail line that passes through the area.



Name: GUILFORD
 Date: 12/22/2009
 Scale: 1 inch equals 2000 feet

Location: 041° 16' 2.88" N 072° 42' 57.81" W
 Caption: CTNH805 Amtrak Guilford

EXHIBIT K



April 18, 2011

Vanasse Hangen Brustlin, Inc.

Ref: 40505.22

Mr. Scott Chasse
All-Points Technology Corp., P.C.
3 Saddlebrook Drive
Killingworth, Connecticut 06419

Re: Preliminary Wetland Impact Analysis and U.S. Army Corps Permit Determination
Proposed Wireless Telecommunication Facility
T-Mobile Site I.D.# CTFF310
Moose Hill Road
Guilford, Connecticut

Dear Mr. Chasse:

Vanasse Hangen Brustlin, Inc. (VHB) understands that T-Mobile proposes to construct a wireless telecommunications facility (herein referred to as "Facility") in the southwest portion of a 163± acre parcel (herein referred to as "Site") located on the east side of Moose Hill Road and north of Amtrak rail line. An existing gravel drive currently provides access into the southern portion of the Site from Moose Hill Road along the southern property boundary. The gravel drive crosses over a narrow forested wetland and associated intermittent watercourse then enters a small field where the proposed Facility will be located in the northern end of the field. The existing access drive will require widening to a 12-foot wide gravel access drive to provide access to the proposed T-Mobile Facility. As a result of the proposed access road widening at the wetland crossing, the existing 18-inch reinforced concrete pipe (RCP) will require replacement as it is of insufficient length. In order to satisfy design requirements of the U.S. Army Corps of Engineers New England District (Corps) Programmatic General Permit (PGP) and be eligible as a Category 1 project (minimal impact/non-reporting), the new culvert is required to satisfy the natural stream crossing design standards in the PGP.

Wetlands were previously delineated by Soil Science and Environmental Services, Inc. on November 17, 2009, during which wetlands were delineated in the southern portion of the Site. Identified wetlands consist of wet meadow, sapling/shrub and forested wetland habitats associated with an intermittent watercourse that flows south. A VHB Professional Soil Scientist performed a field review of the previous wetland delineation on July 23, 2010 and found the delineation to be substantially correct. It is assumed that this wetland and intermittent watercourse system are considered waters of the U.S. and that any activity resulting in discharge of fill material into this resource would be under the jurisdiction of Section 404 of the Clean Water Act and regulated by the Corps.

The existing gravel drive crossing over this wetland and intermittent watercourse system is proposed to be improved with the 12-foot wide gravel access drive which will require replacement of the 18 inch RCP. Approximately 150 square feet of wetlands will be directly impacted with the installation of a new culvert, headwalls and wing walls. Temporary wetland impacts associated with

construction of this crossing (e.g., installation of erosion control measures and clearing of mature vegetation) are estimated at 250 square feet. The proposed Facility will not result in wetland or watercourse impacts as it is located approximately 115 feet east of the wetland system at the nearest location (wetland flag 4 to the northwest compound corner).

Alternatives were reviewed to determine if avoidance or minimization of wetland impacts were possible with an alternate access route. With the property's limited frontage along Moose Hill Road, alternative access routes are significantly constrained to the southern portion of the subject property. Any alternate access route would require impacting the wetland/stream system with a new crossing, resulting in significantly greater wetland impacts than what are currently proposed. It is important to point out that this wetland impact area, both temporary and permanent areas, will only take place in areas immediately adjacent to the existing gravel drive, which are characterized by existing disturbed areas. In addition, with the proposed improvements the existing stream crossing will be upgraded to the current natural stream crossing design standards providing a more ecologically sensitive stream crossing.

In order to minimize wetland impacts associated with improving this existing crossing, the following mitigation is proposed to compensate for the minor unavoidable wetland impacts. Wetland areas adjoining the proposed wetland/stream crossing replacement temporarily impacted by construction activities for improvements to the existing crossing will be restored using a native New England wetland seed mix and native wetland shrubs. Upland areas not permanently stabilized by the culvert headwalls or stone armoring will be restored with a native New England erosion control/conservation seed mix. The New England Conservation/Wildlife seed mix provides a permanent cover of grasses, forbs, wildflowers, legumes and grasses to provide both good erosion control and wildlife habitat value. This mix is designed to be a no maintenance seeding and is appropriate for cut and fill slopes and disturbed areas.

In order to determine if a proposed project is considered to result in minimal wetland impact and is eligible as a Category 1 project (minimal impact/non-reporting) a careful review of the Department of the Army Programmatic General Permit (PGP) State of Connecticut is required. However, the current PGP expires on May 31, 2011. In accordance with the Corps' policy, a project must be under contract with a contractor for construction prior to the May 31, 2011 PGP expiration deadline and all work completed within one calendar year in order to be eligible under the current PGP. As a result, the proposed T-Mobile project will be required to satisfy the requirements under the new PGP, which is anticipated to be issued on or before May 31, 2011. VHB will provide a review of the project's requirements under the new PGP once it is issued by the Corps. It is worth noting that the currently proposed wetland/stream crossing design satisfies the current requirements of the PGP to be considered eligible as a Category 1 project, as detailed below.

For the proposed wetland/stream crossing improvements, the following key definition criteria are required to be complied with in order to be eligible under Category 1 of the PGP.

Unconfined in-stream work, including construction, installation or removal of cofferdam structures or placement of fill, is limited to the period July 1 through September 30 except in instances where a specific written exception has been issued by the CT DEP.



Less than 5,000 SF of Inland Waters, Waterway and/or Wetland Fill and Secondary Impacts. Fill impacts include all temporary and permanent fill and excavation discharges resulting from a single and complete project, see #5 of General Requirements. Secondary impacts include but are not limited include to impacts to inland waters, waterways or wetlands drained, dredged, flooded, cleared or degraded resulting from a single and complete project. (See 40 CFR 230.11 (g) and (h))

Driveway/Roadway Crossings. The following are required for driveway/roadway crossings constructed on brooks, streams, rivers and their tributaries. These provisions do not apply to crossings of drainage ditches or waters with no definable channel.

Driveway crossings using a bridge or open-bottom structure must:

- *span at least 1.2 times the watercourse bank full width,*
- *have an openness ratio¹ equal to or greater than 0.25 meters, and*
- *allow for continuous flow of the 50-year frequency storm flows.*

The proposed wetland/stream crossing replacement design carefully considered these requirements as detailed below. First, unconfined in-stream work will not occur within the brook outside of the July 1 to September 30 period. In addition, the wetland fill required to improve the existing wetland/watercourse crossing total approximately 400 SF (150 SF permanent and 250 SF temporary), significantly less than the 5,000 SF trigger. The existing intermittent watercourse width at bank full varies from 3 to 4 feet. With the proposed box culvert width of 5 feet, the 1.2 times span width requirement (3.6 to 4.8 feet) is satisfied. The openness ratio of the 4-foot high by 5-foot wide by 16-foot long box culvert (effective height of 3 feet with 1 foot imbedded - consisting of natural stream bottom material within the culvert) is 0.286, greater than the 0.25 openness ratio requirement. Finally, the proposed box culvert opening will convey the 50-year design storm; refer to attached Hydraulic Analysis memorandum prepared by VHB dated September 13, 2010.

In addition to satisfying the definition requirements of Category 1, the proposed project must meet the General Conditions of the PGP, most notably for the proposed project is compliance with the National Historic Preservation Act, Endangered Species Act and consistency with the Coastal Management Act. A discussion of consultation with two of the respective agencies is provided below.

Extensive consultation with the Connecticut Commission on Culture and Tourism resulted in a “no adverse effect” determination as revealed in a February 16, 2011 letter from the State Historic Preservation Office (SHPO), a copy of which is enclosed. SHPO issued the no adverse effect determination based on the following project conditions, which the proposed design includes.

¹ **Openness Ratio:** The cross-sectional area (in square meters) of the opening of a structure divided by the length (measured in meters) of the structure. For a box culvert, openness ratio = (height x width)/length (measured in meters). The imbedded portion of the culvert is not included in the cross-sectional area used for calculating the openness ratio.



1. "the tower will be painted medium gray-brown, to blend with the bark color of adjacent trees, with flush-mounted antennae and will not exceed 110', and
2. if not in use for six consecutive months, the antennae and equipment shall be removed by the telecommunications facility owner. This removal shall occur with 90 days of the end of such six-month period. Upon removal, the property shall be restored by the facility owner to its historically appropriate appearance and materials."

Letters from CTDEP Natural Diversity Database and Division of Wildlife dated January 15, 2010 and January 28, 2010, respectively, indicated that a historic record for Endangered Species: Black Rail (*Laterallus jamaicensis*) and current records for two Species of Special Concern: Maritime Sunflower Borer Moth (*Papaipema maritime*) and Eastern Box Turtle (*Terrapene carolina*) occurs in the vicinity of the proposed project. Copies of the two letters are enclosed. CTDEP indicated in the January 28th letter that since Black Rail and Maritime Sunflower Borer Moth require inland tidal creek/marsh and salt marsh habitats, respectively, neither of which occurs on the subject property, the proposed project would not appear to impact these listed species. However, the potential to impact Eastern Box Turtle did exist, which resulted in a turtle study with results forwarded to CTDEP Division of Wildlife for review. CTDEP Wildlife Biologist Julie Victoria responded in an October 26, 2010 letter recommending precautionary measures be implemented to protect the turtles if work were to occur during the turtle's active period (April 1 to November 1). A copy of Ms. Victoria's letter is enclosed.

For projects located in the state's coastal area, such as the T-Mobile project, the PGP is not valid without a Coastal Zone Management Consistency review. SS&ES prepared a Coastal Consistency Review dated December 18, 2009, as attached. In that report, SS&ES concluded that "...the proposed project should not adversely impact any coastal resources and appears consistent with the State of Connecticut Coastal Zone Management Consistency policies and goals." VHB agrees with this conclusion and anticipates that the Connecticut Siting Council will forward a copy of the T-Mobile Certificate of Environmental Compatibility and Public Need application to the CTDEP Office of Long Island Sound Programs (OLISP) for concurrence on the project's Coastal Zone Management Consistency.

Recommendations

In order to further minimize resource impacts and in accordance with regulatory guidance and requirements, the following protective measures and monitoring are recommended,

Culvert Replacement and Wetland/Stream Restoration

To ensure that the proposed replacement culvert is installed in accordance with the natural stream crossing standards, special inspection(s) by a qualified wetland scientist is recommended. In particular, inspection is recommended to ensure that the box culvert is backfilled with natural substrate material matching upstream and downstream streambed substrate and provide for a 6-inch deep and 3-foot wide low flow channel to restore the stream channel within the culvert that allows



for unimpeded passage of fish and other aquatic organisms. The qualified wetland scientist will also inspect the plantings of native wetland shrubs and seedling of native wetland seed mix in wetland areas adjoining the culvert replacement area temporarily impacted by construction activities.

Erosion and Sedimentation Controls

Although the resulting impacts to the brook are anticipated to be relatively minor considering the improvements to be made to the stream crossing, additional precautions during construction will be employed to further minimize impact to downstream areas. Such precautions will include, but are not limited to, appropriate erosion control protective measures to be developed in accordance with the Connecticut Department of Environmental Protection *2002 Connecticut Guidelines for Soil Erosion and Sediment Control* and regular monitoring of such controls by a properly qualified professional independent of the site contractor. These additional details will be incorporated into the final plans during the Development and Management phase (D&M Plan), provided the project is approved by the Connecticut Siting Council.

Eastern Box Turtle Protection Measures

Due to the potential to encounter eastern box turtle at the proposed Site, VHB recommends various protection measures consistent with recommendations made by CTDEP in their October 26, 2010 letter to avoid potential disturbance and mortality to eastern box turtles if proposed construction activities are to occur during the turtle's active period (April 1 to November 1). The following is a methodological plan that will avoid potential disturbance and mortality to eastern box turtle as a result of T-Mobile's proposed construction activities.

It is of the utmost importance that the Contractor complies with the requirement for the installation of protective measures and the education of employees and subcontractors performing work on the project site. To help ensure compliance, these protective measures will be incorporated into the D&M Plan and explained to the Contractor during the pre-construction meeting.

The proposed protection program consists of several components, most notably complete and appropriate isolation of the project perimeter, periodic inspection and maintenance of isolation structures. Contractors and sub-contractors will be provided a brief educational tutorial about eastern box turtles (e.g., identification, behavior, handling techniques, etc.) prior to initiation of work on the site.

1. Isolation Measures

- a. The extent of the barrier fencing will be reviewed by a qualified professional at final site plan preparation during the Connecticut Siting Council's D&M Plan phase, provided the project is approved, to ensure that the construction activities are sufficiently isolated from possible eastern box turtle basking/foraging areas.



- b. Installation of conventional silt fencing, which will result in isolation of the work zone from surrounding areas, and are required for erosion control compliance, will be performed prior to any earthwork. The work zone will be inspected by a qualified professional prior to and following barrier installation to ensure the area is free of turtles.
- c. The fencing will consist of conventional erosion control woven fabric, installed approximately six inches below surface grade and staked at seven- to ten-foot intervals using four-foot oak stakes or approved equivalent. In addition to required daily inspection by the Contractor, the fencing will be inspected for tears or breeches in the fabric following installation and at approximately one-week intervals or after storm events of 0.5 inch or greater by a qualified professional independent of the Contractor. Inspections will be conducted throughout the course of the construction project.
- d. Weekly inspection reports (brief narrative and applicable photos) will be submitted to the Connecticut Siting Council for compliance verification. Any observations of eastern box turtle will be reported to the Connecticut Department of Environmental Protection Wildlife Division.
- e. No equipment, vehicles or construction materials shall be stored outside of barrier fencing.
- f. All silt fencing will be removed within 30 days following completion of construction activities and stabilization of exposed soils.

2. Contractor Education

- a. Prior to work on site, the Contractor shall attend an educational session at the pre-construction meeting with a qualified professional. This orientation and educational session will consist of an introduction on how to identify eastern box turtle (with photos provided), description of the non-aggressive nature of eastern box turtles, the absence of need to destroy animals that might be encountered and the need to follow these protective measures for regulatory compliance of the construction project.
- b. Also stressed in the education session will be means to discriminate between the species of concern and other native species to avoid unnecessary "false alarms".



- c. The Contractor will be provided with cell phone and email contact information of the qualified professional to immediately report any encounters with eastern box turtle. Turtle Caution poster materials will be provided by the qualified professional and posted on the job site to maintain worker and visitor awareness as the construction progresses.

3. Protective Measures

- a. No heavy machinery or vehicles shall be parked in any turtle habitat.
- b. Work conducted in or near turtle habitat during the early morning and evening hours shall occur with special care so as to avoid harming basking or foraging turtles.
- c. All precautions shall be taken to avoid degradation of all wetland habitats.
- d. Prior to the start of construction each day, the Contractor shall search the entire work area for eastern box turtles.
- e. If a turtle is found, it should be carefully grasped in both hands, one on each side of the shell, between the turtle's forelimbs and the hind limbs, and gently placed just outside of the isolation barrier in the approximate direction it was heading.
- f. Special care shall be taken by the Contractor during early morning and evening hours so that possible basking or foraging turtles are not harmed by construction activities.

4. Reporting

- a. Following completion of the construction project, the qualified professional will provide a summary report to Connecticut Siting Council documenting the monitoring and maintenance of the barrier fence.
- b. Any observations of eastern box turtle will be reported to CTDEP by the qualified professional, with photo-documentation (if possible) and with specific information on the location and disposition of the animal.



The eastern box turtle protection measures detailed above will adequately protect this Special Concern species in the event that they are encountered on the subject property during construction activities. With adherence to these protective measures, T-Mobile's proposed development at this property will satisfy CTDEP requirements and eligibility as a Category 1 project under the PGP.

Conclusion

As a result of careful adherence to various regulatory guidance/requirements, the proposed wetland and watercourse impacts associated with T-Mobile's development are not considered to result in a likely adverse impact to wetland or watercourse resources and are in compliance with the current Category 1 PGP eligibility requirements. Due to the relatively small area of wetland impact and the fact that such impacts will occur to wetland areas immediately adjacent to disturbed areas, the proposed wetland impacts are considered to result in minimal impact to these wetland resources. As improvements will be made to the culvert crossing to bring the opening into compliance with the natural stream crossing design standards, appropriate erosion control measures will be implemented to minimize temporary impacts during construction, and native species will be used to restore temporarily disturbed wetland and adjacent areas, the proposed wetland impacts will not result in diminishment of wetland functions and values and will actually improve stream related functions.

If you have any questions concerning this matter do not hesitate to call me.

Very truly yours,

VANASSE HANGEN BRUSTLIN, INC.



Dean Gustafson
Professional Soil Scientist

Enclosures



VHB Hydraulic Analysis Report





Vanasse Hangen Brustlin, Inc.

To: Mr. Scott Chasse
All-Points Technology Corp., P.C.
3 Saddlebrook Drive
Killingworth, Connecticut 06419

Date: September 13, 2010

Project No.: 40505.22

From: Steven Klimkoski
Project Engineer

Re: Hydrologic Analysis
Proposed Wireless Telecommunication
Facility T-Mobile Site I.D.# CTFF310
Moose Hill Road
Guilford, Connecticut

A hydrologic analysis was performed for the existing 18 inch RCP culvert that is to be replaced with a concrete box culvert for the widening of an existing gravel road to service a proposed T-Mobile Wireless facility.

The corresponding watershed for the existing 18" RCP was divided into three drainage areas (see watershed map). These areas discharge to three design points where peak discharge rates were evaluated for the existing 18 inch RCP culvert and a proposed 4-foot by 5-foot box culvert, which is proposed to replace the existing 18 inch RCP culvert.

The rainfall-runoff response of the site was evaluated for a 50 year storm event. The rainfall rate used for this analysis was obtained from the USGS Connecticut Characteristics Report, Type III, 24-hour storm event which was 7.8 inches. Rainfall coefficients were determined using NRCS Technical Release 55 (TR-55) methodology as provided in HydroCad. The HydroCad Model is based on the NRCS Technical Release 20 (TR-20) Model for Project Formulation Hydrology. Detailed printouts of the HydroCad analysis are included in this memo.

Detailed field inspection of the 18 inch RCP culvert and corresponding watershed indicates the runoff generated from the watershed does not flow over the existing gravel drive. Although the existing 18 inch RCP culvert has a fairly large watershed (113.5 acres), there are large floodplain marshes as well as various ponds and associated wetlands that detain and attenuate the stormwater runoff throughout the watershed. Flow begins at the north of the watershed and flows overland into an existing stream. The stream flows in a southerly direction to the existing 18 inch RCP culvert and eventually flows to an existing twin culvert structure under existing railroad tracks located south of the existing 18 inch RCP culvert.

An existing man made pond and earthen dam is located in the upper third of the watershed. Field inspection indicated a small existing overflow channel that conveys stormwater runoff stored behind the dam. Any attenuation from this drainage feature was disregarded from the estimation of peak runoff due to the small elevation difference between the overflow channel and earthen dam.

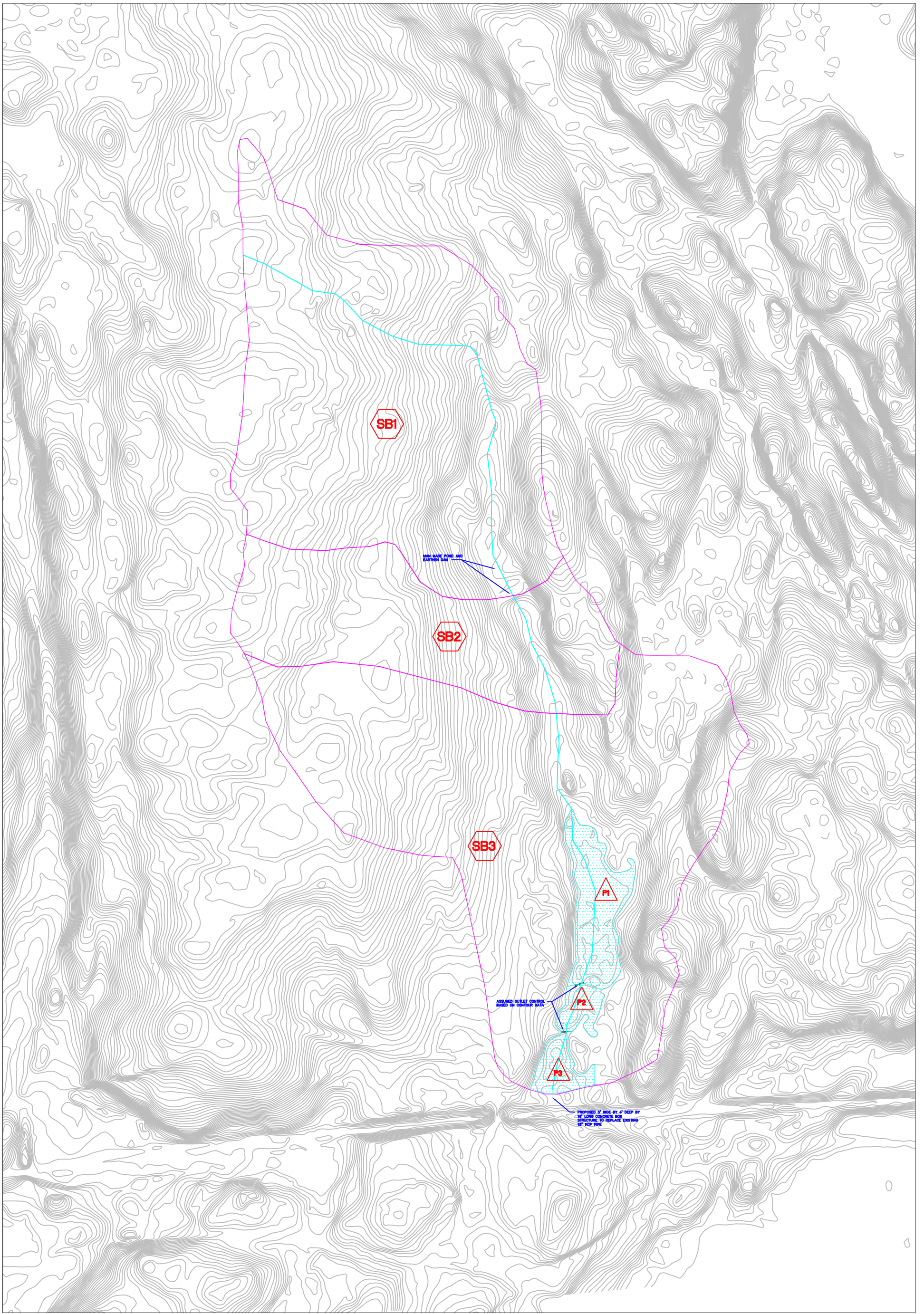
Existing two foot contours for the watershed were obtained from Connecticut LiDAR 10-foot spatial resolution digital elevation model (DEM) data collected in the year 2000 and maintained by the University of Connecticut, Center for Land Use Education & Research (CLEAR). Analysis of the





existing contours for the watershed indicate large areas of stormwater storage contained in a Floodplain marsh north of the existing 18 inch RCP culvert. Three stormwater storage areas were delineated, using the existing contours, and included in the HydroCad model to better accurately estimate the watershed characteristics and estimated peak flow for the existing 18 inch RCP culvert. Some assumptions were made based on existing contours and flow patterns including depth of the storage areas and earthen berms at each areas outlet, respectively. Field inspection of the area north of the existing 18 inch RCP indicates that the north side of the existing gravel road retains collected stormwater from the south storage area eventually conveying the flow through the existing 18 inch RCP culvert.

As a result of the proposed access road widening for the T-Mobile facility at the wetland crossing, the existing 18-inch reinforced concrete culvert (RCP) will require replacement. In order to satisfy design requirements of the U.S. Army Corps of Engineers New England District (Corps) Programmatic General Permit (PGP), the new culvert is required to satisfy the natural stream crossing design standards in the PGP. Key components of this requirement include an openness ratio of 0.25 meters or greater, embed the structure and place natural stream bottom material in the structure and allow for continuous flow of the 50-year frequency storm flows.

A 16 foot long 5 feet wide by 4 feet deep concrete box structure is proposed to replace the existing 18 inch RCP culvert in order to satisfy the Corps stream crossing design standards. The proposed box structure will be buried 1 foot into existing ground to create a natural stream bed under the driveway within the box structure. The proposed box structure is sufficient to convey a 50 year storm event through a 3 foot clear opening with a maximum elevation of approximately 3.0 feet above the flow line of natural stream bed with an estimated velocity of 5.0 feet per second. Detailed printouts of the HydroCad analysis for the proposed box culvert are included in this memo.

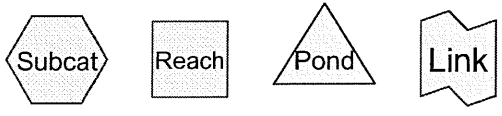
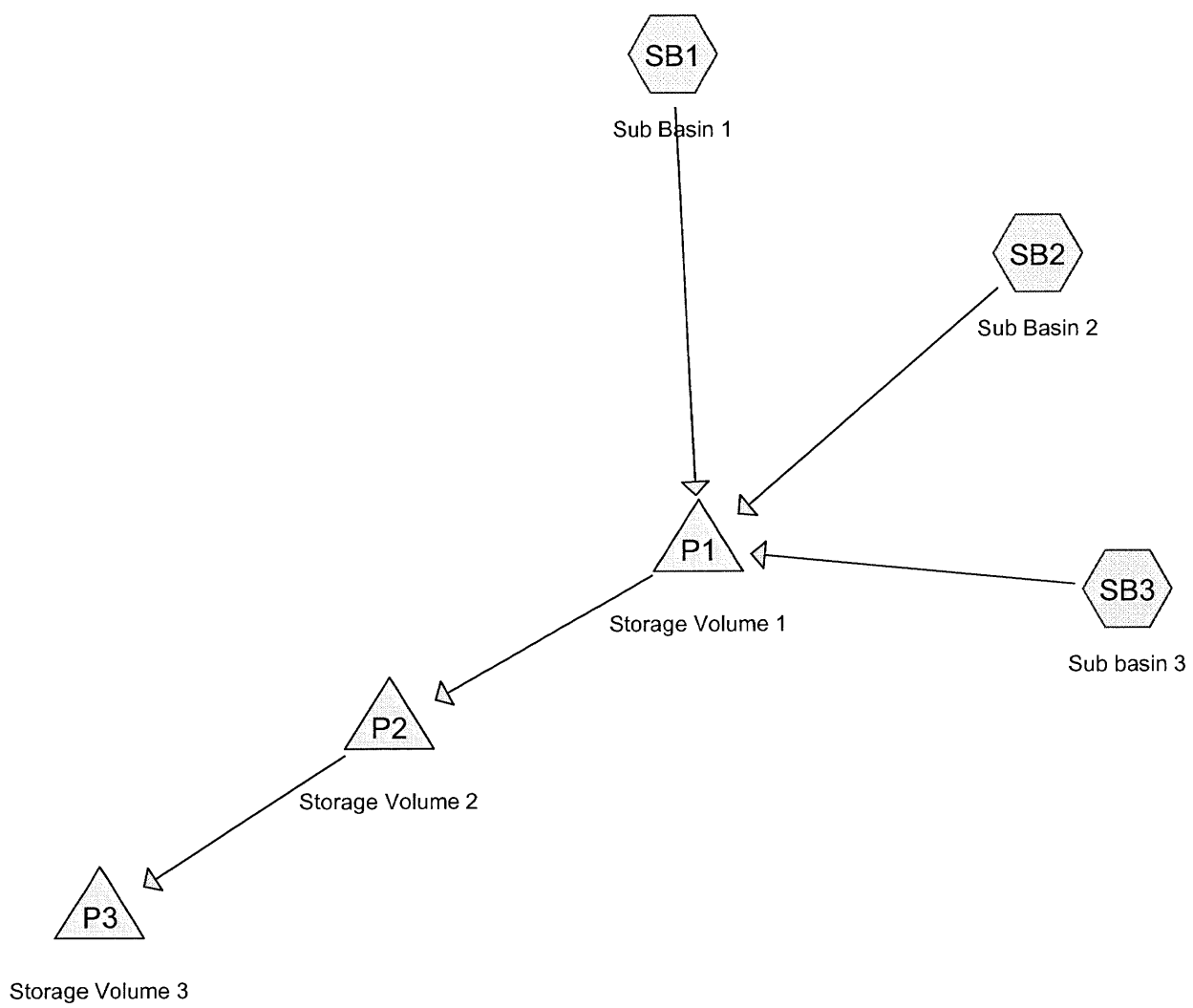
Based on the estimated peak flow from the Hydrologic analysis and field inspection of the existing 18 inch RCP the results indicate a very conservative analysis due to the fact there is no evidence of driveway overtopping and the maximum capacity of the existing 18 inch RCP is well below the estimated results. If a structure smaller than the proposed embedded 5-foot by 4-foot box culvert is proposed, a more detailed hydrologic study would be recommended.



-  **Time of Concentration**
-  **Sub basin**
-  **Design Point**
-  **Watershed Boundary**

Vanasse Hangen Brustlin, Inc.

**Watershed Map
 Facility T-Mobile Site I.D.#CTFF310
 Moose Hill Road
 Guilford, CT
 Scale: 1" = 400'
 Date: September 9, 2010
 Job No. 40505.22**



Drainage Diagram for Review-Guilford South_USGS rainfall data_Box
 Prepared by {enter your company name here}, Printed 9/9/2010
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Review-Guilford South_USGS rainfall data_Box

Prepared by {enter your company name here}

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Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
7.100	30	Meadow, non-grazed, HSG A (SB1, SB2)
39.600	55	Woods, Good, HSG B (SB1, SB2, SB3)
5.600	58	Meadow, non-grazed, HSG B (SB3)
39.900	65	2 acre lots, 12% imp, HSG B (SB1, SB2, SB3)
3.700	70	Woods, Good, HSG C (SB1, SB3)
4.700	77	2 acre lots, 12% imp, HSG C (SB2, SB3)
10.700	77	Woods, Good, HSG D (SB1, SB2, SB3)
2.200	78	Meadow, non-grazed, HSG D (SB3)
113.500		TOTAL AREA

Review-Guilford South_USGS rainfall data_Box

Type III 24-hr 50 year Rainfall=7.80"

Prepared by {enter your company name here}

Printed 9/9/2010

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Page 3

Time span=0.00-36.00 hrs, dt=0.01 hrs, 3601 points
Runoff by SCS TR-20 method, UH=SCS
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment SB1: Sub Basin 1	Runoff Area=41.800 ac 5.51% Impervious Runoff Depth=3.08" Tc=79.0 min CN=59 Runoff=48.57 cfs 10.714 af
Subcatchment SB2: Sub Basin 2	Runoff Area=19.200 ac 6.00% Impervious Runoff Depth=3.08" Tc=6.0 min CN=59 Runoff=67.77 cfs 4.921 af
Subcatchment SB3: Sub basin 3	Runoff Area=52.500 ac 3.61% Impervious Runoff Depth=3.51" Tc=3.0 min CN=63 Runoff=239.17 cfs 15.366 af
Pond P1: Storage Volume 1	Peak Elev=45.80' Storage=410,858 cf Inflow=302.79 cfs 31.001 af Outflow=76.51 cfs 23.890 af
Pond P2: Storage Volume 2	Peak Elev=44.99' Storage=52,813 cf Inflow=76.51 cfs 23.890 af Outflow=76.47 cfs 23.039 af
Pond P3: Storage Volume 3	Peak Elev=43.04' Storage=49,332 cf Inflow=76.47 cfs 23.039 af 60.0" x 36.0" Box Culvert n=0.015 L=40.0' S=0.0150 '/' Outflow=74.90 cfs 23.039 af
Total Runoff Area = 113.500 ac Runoff Volume = 31.001 af Average Runoff Depth = 3.28" 95.28% Pervious = 108.148 ac 4.72% Impervious = 5.352 ac	

Summary for Subcatchment SB1: Sub Basin 1

Runoff = 48.57 cfs @ 13.08 hrs, Volume= 10.714 af, Depth= 3.08"

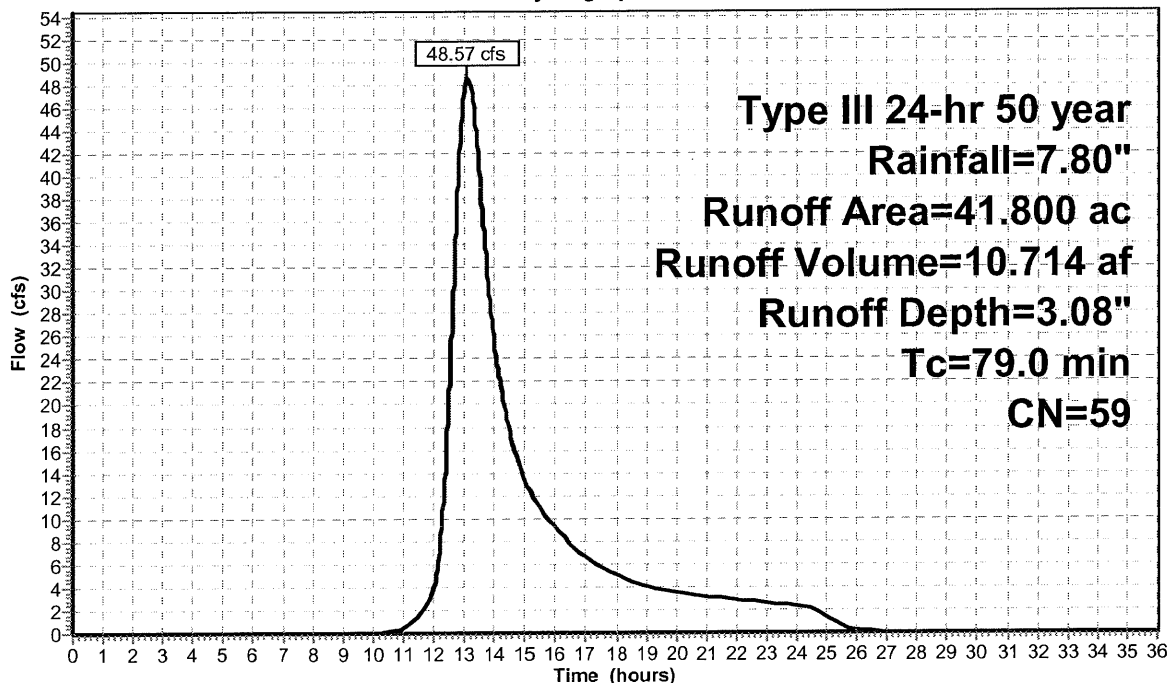
Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-36.00 hrs, dt= 0.01 hrs
 Type III 24-hr 50 year Rainfall=7.80"

Area (ac)	CN	Description
19.200	65	2 acre lots, 12% imp, HSG B
4.400	30	Meadow, non-grazed, HSG A
13.800	55	Woods, Good, HSG B
1.400	70	Woods, Good, HSG C
3.000	77	Woods, Good, HSG D
41.800	59	Weighted Average
39.496		94.49% Pervious Area
2.304		5.51% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
79.0					Direct Entry,

Subcatchment SB1: Sub Basin 1

Hydrograph



Summary for Subcatchment SB2: Sub Basin 2

Runoff = 67.77 cfs @ 12.09 hrs, Volume= 4.921 af, Depth= 3.08"

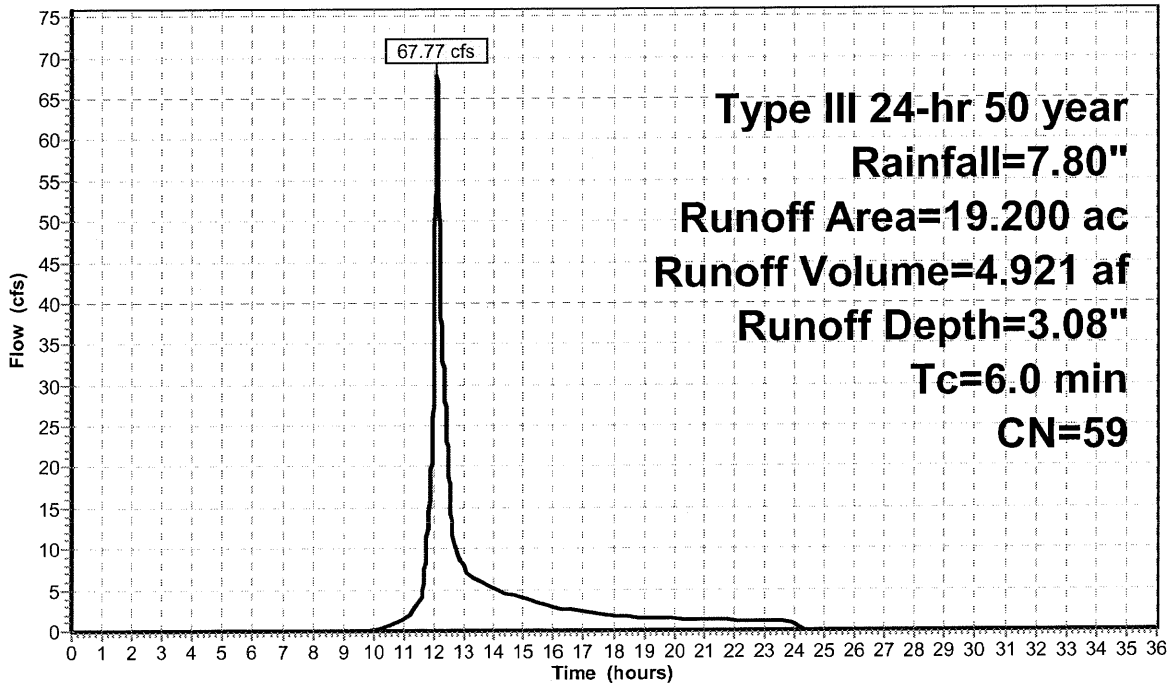
Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-36.00 hrs, dt= 0.01 hrs
 Type III 24-hr 50 year Rainfall=7.80"

Area (ac)	CN	Description
7.100	65	2 acre lots, 12% imp, HSG B
2.700	30	Meadow, non-grazed, HSG A
5.700	55	Woods, Good, HSG B
2.500	77	2 acre lots, 12% imp, HSG C
1.200	77	Woods, Good, HSG D
19.200	59	Weighted Average
18.048		94.00% Pervious Area
1.152		6.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Subcatchment SB2: Sub Basin 2

Hydrograph



Summary for Subcatchment SB3: Sub basin 3

Runoff = 239.17 cfs @ 12.05 hrs, Volume= 15.366 af, Depth= 3.51"

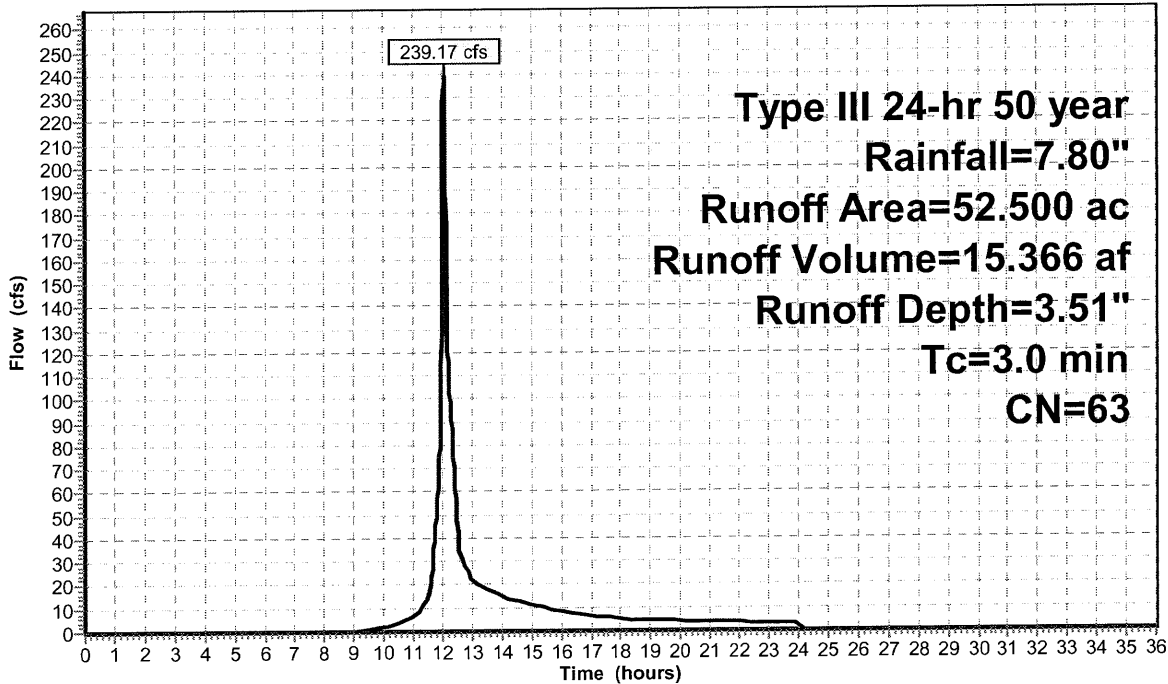
Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-36.00 hrs, dt= 0.01 hrs
 Type III 24-hr 50 year Rainfall=7.80"

Area (ac)	CN	Description
13.600	65	2 acre lots, 12% imp, HSG B
5.600	58	Meadow, non-grazed, HSG B
20.100	55	Woods, Good, HSG B
2.200	77	2 acre lots, 12% imp, HSG C
2.300	70	Woods, Good, HSG C
2.200	78	Meadow, non-grazed, HSG D
6.500	77	Woods, Good, HSG D
52.500	63	Weighted Average
50.604		96.39% Pervious Area
1.896		3.61% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.0					Direct Entry,

Subcatchment SB3: Sub basin 3

Hydrograph



Runoff

Summary for Pond P1: Storage Volume 1

Inflow Area = 113.500 ac, 4.72% Impervious, Inflow Depth = 3.28" for 50 year event
 Inflow = 302.79 cfs @ 12.06 hrs, Volume= 31.001 af
 Outflow = 76.51 cfs @ 13.04 hrs, Volume= 23.890 af, Atten= 75%, Lag= 59.1 min
 Primary = 76.51 cfs @ 13.04 hrs, Volume= 23.890 af

Routing by Stor-Ind method, Time Span= 0.00-36.00 hrs, dt= 0.01 hrs / 2
 Peak Elev= 45.80' @ 13.04 hrs Surf.Area= 135,377 sf Storage= 410,858 cf

Plug-Flow detention time= 167.6 min calculated for 23.890 af (77% of inflow)
 Center-of-Mass det. time= 79.6 min (946.9 - 867.4)

Volume	Invert	Avail.Storage	Storage Description
#1	42.00'	436,372 cf	Custom Stage Data (Prismatic) Listed below

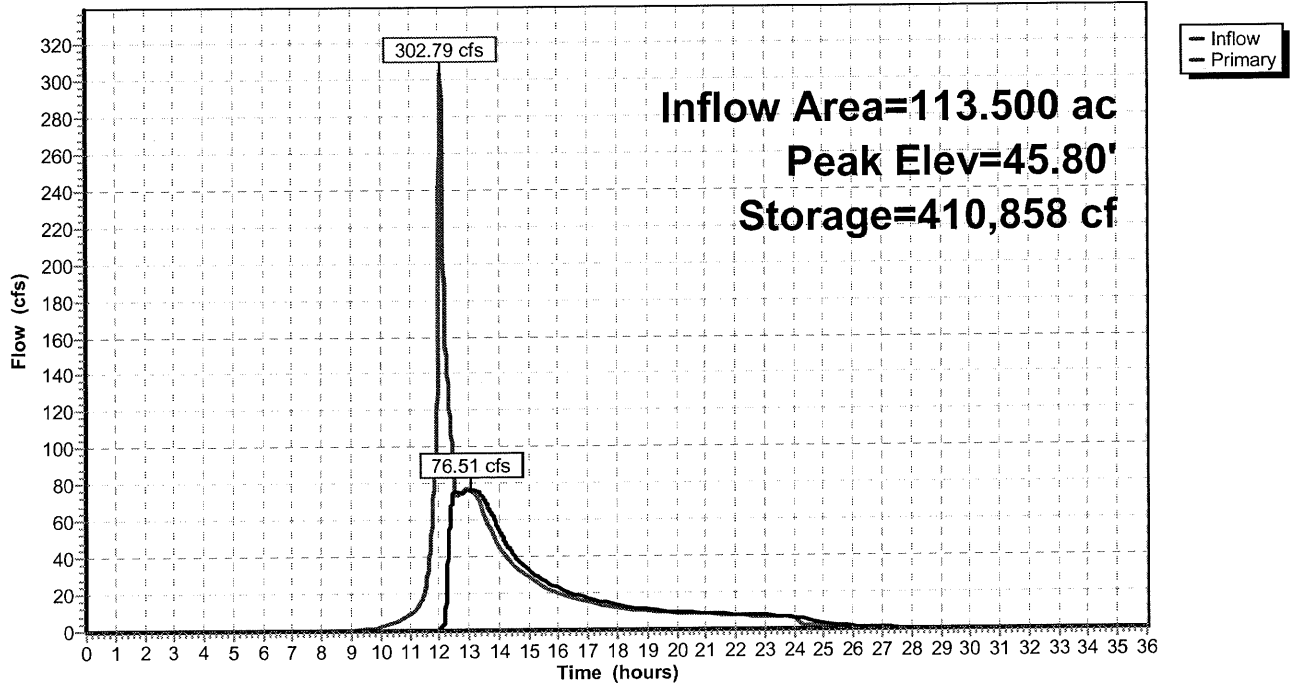
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
42.00	67,225	0	0
44.00	115,788	183,013	183,013
46.00	137,571	253,359	436,372

Device	Routing	Invert	Outlet Devices
#1	Primary	45.00'	40.0' long x 6.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.37 2.51 2.70 2.68 2.68 2.67 2.65 2.65 2.65 2.65 2.66 2.66 2.67 2.69 2.72 2.76 2.83

Primary OutFlow Max=76.51 cfs @ 13.04 hrs HW=45.80' (Free Discharge)
 ↳1=Broad-Crested Rectangular Weir (Weir Controls 76.51 cfs @ 2.40 fps)

Pond P1: Storage Volume 1

Hydrograph



Summary for Pond P2: Storage Volume 2

Inflow Area = 113.500 ac, 4.72% Impervious, Inflow Depth = 2.53" for 50 year event
 Inflow = 76.51 cfs @ 13.04 hrs, Volume= 23.890 af
 Outflow = 76.47 cfs @ 13.10 hrs, Volume= 23.039 af, Atten= 0%, Lag= 3.5 min
 Primary = 76.47 cfs @ 13.10 hrs, Volume= 23.039 af

Routing by Stor-Ind method, Time Span= 0.00-36.00 hrs, dt= 0.01 hrs
 Peak Elev= 44.99' @ 13.10 hrs Surf.Area= 25,307 sf Storage= 52,813 cf

Plug-Flow detention time= 33.4 min calculated for 23.033 af (96% of inflow)
 Center-of-Mass det. time= 12.6 min (959.5 - 946.9)

Volume	Invert	Avail.Storage	Storage Description
#1	42.00'	81,981 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

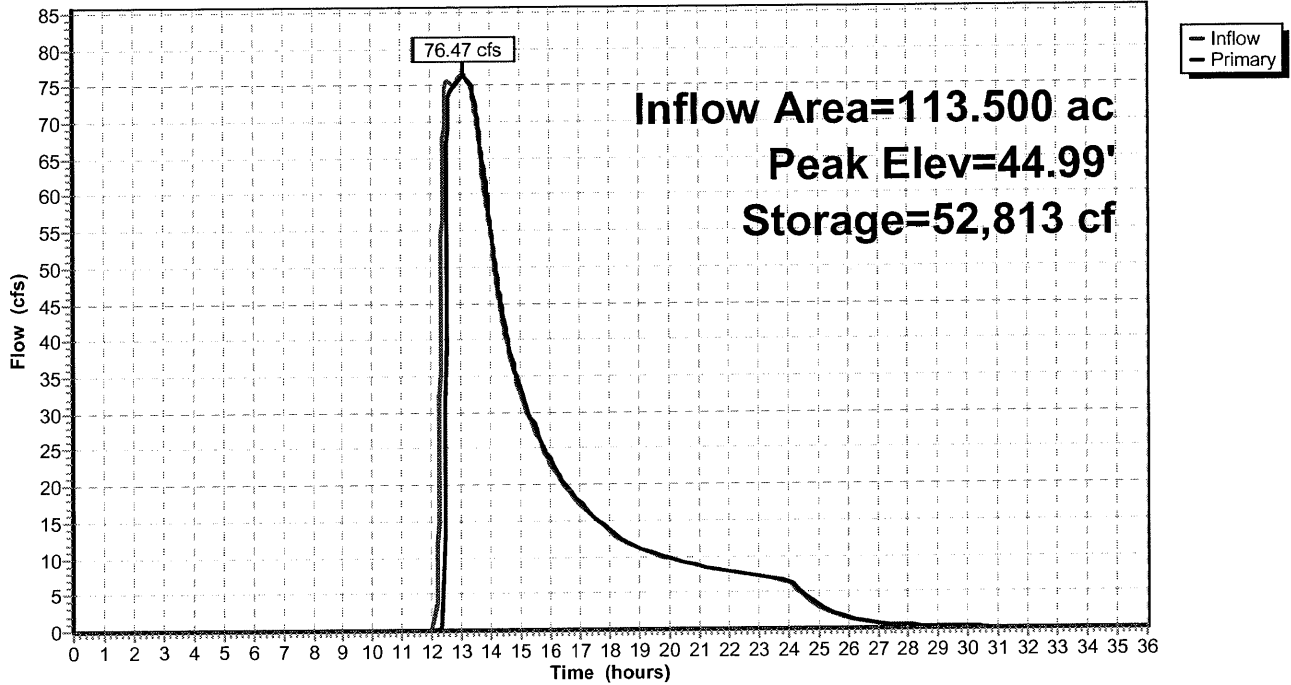
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
42.00	12,586	0	0
44.00	18,588	31,174	31,174
46.00	32,219	50,807	81,981

Device	Routing	Invert	Outlet Devices
#1	Primary	44.30'	50.0' long x 6.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.37 2.51 2.70 2.68 2.68 2.67 2.65 2.65 2.65 2.65 2.66 2.66 2.67 2.69 2.72 2.76 2.83

Primary OutFlow Max=76.45 cfs @ 13.10 hrs HW=44.99' (Free Discharge)
 ↳1=Broad-Crested Rectangular Weir (Weir Controls 76.45 cfs @ 2.23 fps)

Pond P2: Storage Volume 2

Hydrograph



Summary for Pond P3: Storage Volume 3

Inflow Area = 113.500 ac, 4.72% Impervious, Inflow Depth = 2.44" for 50 year event
 Inflow = 76.47 cfs @ 13.10 hrs, Volume= 23.039 af
 Outflow = 74.90 cfs @ 13.35 hrs, Volume= 23.039 af, Atten= 2%, Lag= 15.1 min
 Primary = 74.90 cfs @ 13.35 hrs, Volume= 23.039 af

Routing by Stor-Ind method, Time Span= 0.00-36.00 hrs, dt= 0.01 hrs / 2
 Peak Elev= 43.04' @ 13.35 hrs Surf.Area= 26,118 sf Storage= 49,332 cf

Plug-Flow detention time= 11.0 min calculated for 23.039 af (100% of inflow)
 Center-of-Mass det. time= 11.0 min (970.5 - 959.5)

Volume	Invert	Avail.Storage	Storage Description
#1	40.00'	151,271 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

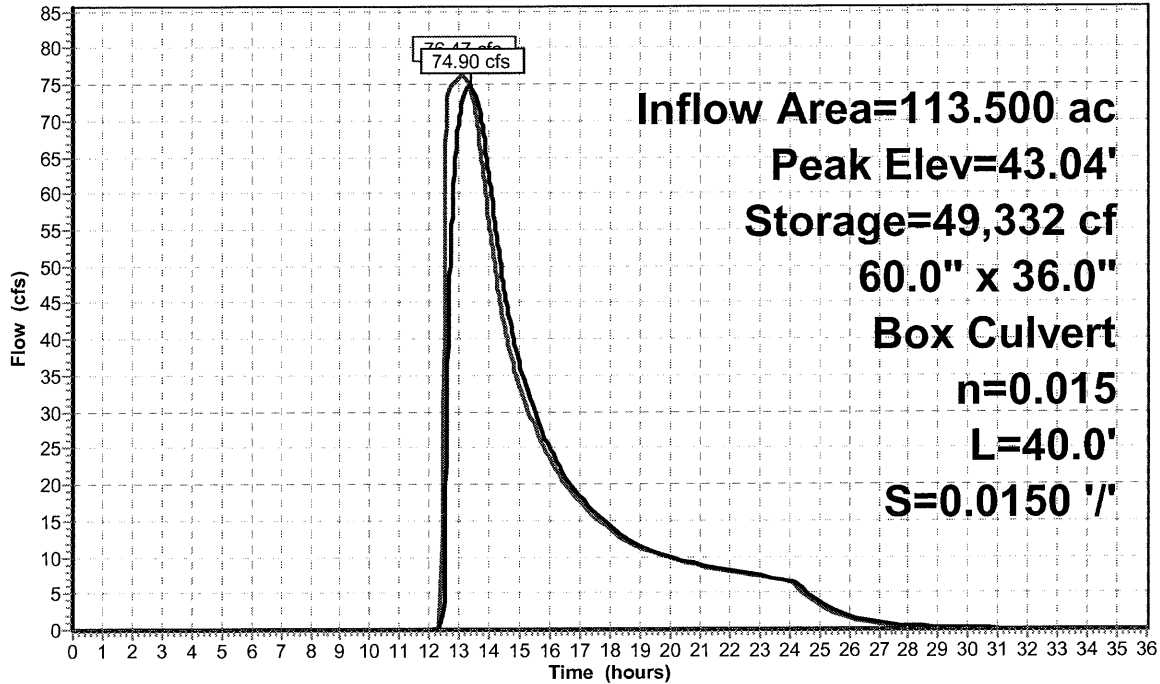
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
40.00	5,621	0	0
42.00	19,832	25,453	25,453
44.00	31,929	51,761	77,214
46.00	42,128	74,057	151,271

Device	Routing	Invert	Outlet Devices
#1	Primary	40.00'	60.0" W x 36.0" H Box Culvert L= 40.0' Box, 0° wingwalls, square crown edge, Ke= 0.700 Outlet Invert= 39.40' S= 0.0150 '/' Cc= 0.900 n= 0.015

Primary OutFlow Max=74.93 cfs @ 13.35 hrs HW=43.04' (Free Discharge)
 ↑**1=Culvert** (Inlet Controls 74.93 cfs @ 5.00 fps)

Pond P3: Storage Volume 3

Hydrograph



**State Historic Preservation Office
Correspondence**





Connecticut Commission on Culture & Tourism

February 16, 2011

Historic Preservation
and Museum Division

Mr. Jesse A. Langer
Cohen and Wolf
PO Box 1821
Bridgeport, CT 06601-1821

One Constitution Plaza
Second Floor
Hartford, Connecticut
06103

860.256.2800
860.256.2763 (f)

Subject: Proposed Telecommunications Facility
Moose Hill Road
Guilford, Connecticut
T-Mobile

Dear Mr. Langer:

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

This office has determined that the undertakings will have no adverse effect on the Route 146 Historic District, which is listed on the National Register of Historic Places, with the following conditions:

1. the tower will be painted medium gray-brown, to blend with the bark color of adjacent trees, with flush-mounted antennae and will not exceed 110', and
2. if not in use for six consecutive months, the antennae and equipment shall be removed by the telecommunications facility owner. This removal shall occur within 90 days of the end of such six-month period. Upon removal, the property shall be restored by the facility owner to its historically appropriate appearance and materials.

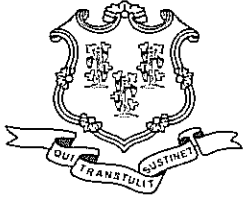
The State Historic Preservation Office appreciates the opportunity to provide you, T-Mobile, and EBI with this evaluation. Please contact Susan Chandler, Historical Architect, should you have additional questions concerning this matter.

Sincerely,

David Bahlman
Division Director and Deputy
State Historic Preservation Officer

CTDEP Correspondence





STATE OF CONNECTICUT
DEPARTMENT OF ENVIRONMENTAL PROTECTION



Bureau of Natural Resources
Division of Wildlife
79 Elm Street, 6th Floor
Hartford, CT 06106
Natural Diversity Data Base

January 15, 2010

Ms. Ami Senechal-Anderson
EBI Consulting
21 B Street
Burlington, MA 01803

re: Construction of a 140 Foot
Telecommunications Monopole (Amtrack-
Guilford) for T-Mobile Off Moose Hill
Road in Guilford, Connecticut

Dear Ms. Senechal-Anderson:

I have reviewed Natural Diversity Data Base maps and files regarding the area delineated on the map you provided for the proposed construction of a telecommunications monopole off Moose Hill Road in Guilford, Connecticut. According to our information, there are historic records for State Endangered Laterallus jamaicensis (black rail), State Special Concern Terrapene carolina carolina (box turtle) and Papaipema maritima (maritime sunflower borer moth) from the vicinity of this project site. I have sent your letter to Julie Victoria (DEP-Wildlife; 860-642-7239, julie.victoria@ct.gov) for further review. She will write to you directly with her comments.

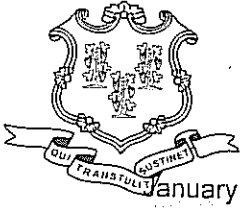
Natural Diversity Data Base information includes all information regarding critical biological resources available to us at the time of the request. This information is a compilation of data collected over the years by the Department of Environmental Protection's Geological and Natural History Survey and cooperating units of DEP, private conservation groups and the scientific community. This information is not necessarily the result of comprehensive or site-specific field investigations. Consultations with the Data Base should not be substitutes for on-site surveys required for environmental assessments. Current research projects and new contributors continue to identify additional populations of species and locations of habitats of concern, as well as, enhance existing data. Such new information is incorporated into the Data Base as it becomes available.

Please contact me if you have further questions at 860-424-3592. Thank you for consulting the Natural Diversity Data Base. Also be advised that this is a preliminary review and not a final determination. A more detailed review may be conducted as part of any subsequent environmental permit applications submitted to DEP for the proposed site.

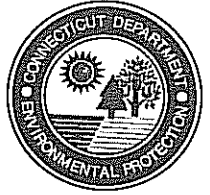
Sincerely,

Dawn M. McKay
Biologist/Environmental Analyst

Cc: Julie Victoria, NDDDB # 17365



STATE OF CONNECTICUT
DEPARTMENT OF ENVIRONMENTAL PROTECTION



January 28, 2010

Ms. Ami Senechel-Anderson
EBI Consulting
21 B Street
Burlington, MA 01803

re: proposed telecommunication monopole (Amtrak-Guilford) for T-Mobile off Moose Hill Road, Guilford

Dear Ms. Senechel-Anderson:

Your request for information was forwarded to me on 1/21/10 by Dawn McKay of the Department of Environmental Protection's (DEP) Natural Diversity Database. Their records indicate that a historic record for endangered species: Black rail (*Laterallus jamaicensis*) and current records for two Species of Special Concern: Maritime sunflower borer moth (*Papaipema maritime*) and Eastern Box Turtle (*Terrapene carolina*) occurs in the vicinity of your project.

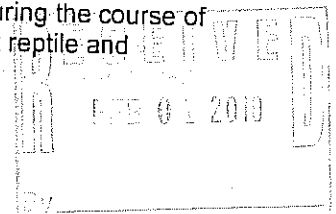
Maritime sunflower borer moths occur on the edges of salt marshes and are associated with the host plant *Heliantheous*. Black rails nest along inland tidal creeks and marshes, in salt marshes or salt hay meadows or along edges of sedges or marsh grass flats from May to August. It does not appear from information provided that either of these species will be impacted.

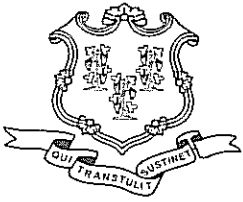
Eastern Box Turtles require old field and deciduous forest habitats, which can include power lines and logged woodlands. They are often found near small streams and ponds, the adults are completely terrestrial but the young may be semiaquatic, and hibernate on land by digging down in the soil from October to April. They have an extremely small home range and can usually be found in the same area year after year. This species is dormant from November 1 to April 1. It has been negatively impacted by the loss of suitable habitat.

If this work will negatively impact any Eastern Box Turtle habitat, the Wildlife Division recommends that a herpetologist familiar with the habitat requirements of this reptile conduct surveys during the species active season. A report summarizing the results of such surveys should include habitat descriptions, reptile species list and a statement/resume giving the herpetologist's qualifications. The DEP doesn't maintain a list of qualified herpetologists. The results of this investigation can be forwarded to the Wildlife Division and, after evaluation, recommendations for additional surveys, if any, will be made. The DEP Wildlife Division may recommend that if work must be done during these turtle's active period (April 1 to November 1) that the following precautionary measures be implemented to protect the turtles, you should work with a herpetologist to prepare a pre- and post construction plan:

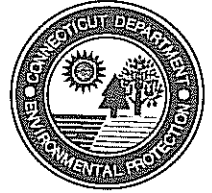
1. the construction crew be apprised of the species description and possible presence and that the area be searched for turtles each day prior to construction.
2. any turtles encountered during construction be moved out of the way.
3. all precautions should be taken to avoid degradation to wetland habitats including any wet meadows and seasonal pools
4. that work conducted in these habitats during the early morning and evening hours should occur with special care not to harm basking or foraging individuals.
5. that no heavy machinery or vehicles be parked in any habitat.

Standard protocols for the protection of wetlands should be followed and maintained during the course of the project. Additionally, all silt fencing should be removed after soils are stable so that reptile and amphibian movement between uplands and wetlands is not restricted.





STATE OF CONNECTICUT
DEPARTMENT OF ENVIRONMENTAL PROTECTION



October 26, 2010

Ms. Trevelyn Potter, Program Manager
EBI Consulting
21 B Street
Burlington, MA 01803

re: proposed telecommunication monopole (Amtrak-Guilford) for T-Mobile off Moose Hill Road, Guilford

Dear Ms. Potter:

Your Eastern Box Turtle survey report and cover letter were redirected to me from the Hartford Office on 10/14/10. Although the target species was not detected, the surveyor indicated that suitable habitat is present. The surveyor recommends, and the DEP Wildlife Division concurs, that the work should be done during the turtle dormant period November 1 to April 1.

Additionally, the DEP Wildlife Division recommends that if work must be done during these turtle's active period (April 1 to November 1) that the following precautionary measures be implemented to protect the turtles:

1. the construction crew be apprised of the species description and possible presence and that the area be searched for turtles each day prior to construction.
2. any turtles encountered during construction be moved out of the way.
3. all precautions should be taken to avoid degradation to wetland habitats including any wet meadows and seasonal pools
4. that work conducted in these habitats during the early morning and evening hours should occur with special care not to harm basking or foraging individuals.
5. that no heavy machinery or vehicles be parked in any habitat.

Standard protocols for the protection of wetlands should be followed and maintained during the course of the project. Additionally, all silt fencing should be removed after soils are stable so that reptile and amphibian movement between uplands and wetlands is not restricted.

Please be advised that the Wildlife Division has not made a field inspection of the project nor have we seen detailed timetables for work to be done. Consultation with the Wildlife Division should not be substituted for site-specific surveys that may be required for environmental assessments. The time of year when this work will take place will affect these species if they are present on the site when the work is scheduled. Please be advised that should state permits be required or should state involvement occur in some other fashion, specific restrictions or conditions relating to the species discussed above may apply. In this situation, additional evaluation of the proposal by the DEP Wildlife Division should be requested. If the proposed project has not been initiated within 12 months of this review, contact the NDDDB for an updated review. If you have any additional questions, please feel free to contact me at Julie.Victoria@ct.gov, please reference the NDDDB # at the bottom of this letter when you e-mail or write. Thank you for the opportunity to comment.

Sincerely,

Julie Victoria
Wildlife Biologist
Franklin Swamp Wildlife Management Area
391 Route 32
N. Franklin, CT 06254

cc: NDDDB - 17365

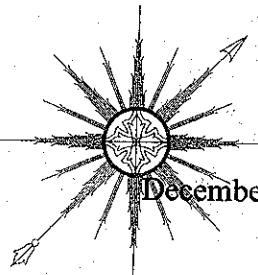
EXHIBIT L

**CTNH805A - AMTRAK GUILFORD
1000' RESIDENTIAL BUILDING LIST**

PARCEL ID	STREET ADDRESS	BUILDING TYPE	DISTANCE FROM COMPOUND*
66-63	83 Moose Hill Road	Single Family	550'
66-61	133 Moose Hill Road	Single Family	580'
66-60	149 Moose Hill Road	Single Family	652'
66-36	172 Moose Hill Road	Single Family	900'
66-35	144 Moose Hill Road	Single Family	732'
66-34	124 Moose Hill Road	Single Family	671'
19-3	48 Moose Hill Road	Single Family	843'
19-7	27 Moose Hill Road	Single Family	930'
19-8	1 Moose Hill Road	Single Family	900'
19-5	43 Moose Hill Road	Single Family	760'
19-11	575 Leetes Island Road	Single Family	535'
19-12	558 Leetes Island Road	Single Family	587'
19-14	616 Leetes Island Road	Single Family	955'
19-15	Leetes Island Road	Single Family	860'
19-16	588 Leetes Island Road	Single Family	824'
66-1	30 Dramara Road	Single Family	981'

* Information taken from the Town of Guilford Assessment Mapping (Maps 19, 20, 66 and 69), Digital Global 2006 & 2010 Digital Orthophotographs, Town of Guilford GIS website, 2011 Microsoft Corp Bing Maps™, and 2011 Google Earth™ imagery

EXHIBIT M



ALL-POINTS TECHNOLOGY CORPORATION, P.C.

December 16, 2009

Ms. Julie D. Kohler, Esq.
Cohen and Wolf P.C.
1115 Broad Street
Bridgeport, CT 06604

RE: Tree Inventory
Site: CTNH805A Guilford
Moose Hill Road
Guilford, CT 06437

Dear Ms. Kohler:

A Tree Inventory was completed at the subject site on December 1, 2009 to determine the size and quantity of existing trees that will need to be removed for the installation of the proposed facility. Access to the facility is via a proposed 12' wide gravel access way established along the eastern side of Moose Hill Road and will run along an existing gravel driveway running eastward towards the proposed facility. Installation of the proposed 50' x 50' compound area and 760 feet of access way improvements will require the removal of trees summarized as follows:

- 8" - 10" dbh - 0 trees
- 10" - 14" dbh - 2 trees
- 14" or greater dbh - 0 trees

The existing trees surrounding the existing clearing where the proposed compound will be located will remain.

Sincerely,

ALL-POINTS TECHNOLOGY CORPORATION, P.C.

Scott M. Chasse, P.E.
Principal

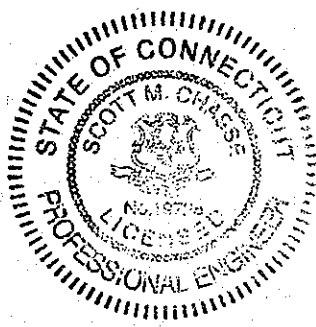


EXHIBIT N

**STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL**

RE: APPLICATION BY T-MOBILE
NORTHEAST LLC FOR A
CERTIFICATE OF ENVIRONMENTAL
COMPATIBILITY AND PUBLIC NEED
FOR A TELECOMMUNICATIONS FACILITY
AT MOOSE HILL ROAD IN THE
TOWN OF GUILFORD, CONNECTICUT

DOCKET NO. ____

Date: September 14, 2010

**AFFIDAVIT OF PAUL LUSITANI REGARDING
BALLOON FLOAT FOR VISUAL ANALYSIS REPORT**

I, Paul Lusitani, do hereby declare and state:

1. I am over the age of 18 years, and believe in the obligation of an oath.
2. I am a Project Engineer for Clough Harbour & Associates ("CHA").
3. I have personal knowledge of the above-captioned Application for a Certificate of Environmental Compatibility and Public Need, to be filed with the Connecticut Siting Council ("Application") by T-Mobile Northeast LLC ("T-Mobile"), as well as the specific events attested to in this affidavit.
4. T-Mobile retained CHA to provide a Visual Analysis Report for the proposed telecommunications facility at Moose Hill Road, Guilford, Connecticut ("Facility").
5. On January 21, 2010, I oversaw and/or supervised a balloon float at the site of the Facility.
6. The purpose of the balloon float was to verify the sensitive visual receptors in the area and assess whether the Facility would have an impact on those receptors. CHA also conducted the balloon float to confirm CHA's research and computer modeling of the potential visibility of the Facility on the surrounding area.

7. CHA tethered a red balloon, 60 inches in diameter, at the site of the proposed Facility, at a height of 140 feet above grade level.

8. The balloon was aloft from 8:00a.m. until 5:00p.m.

9. The weather conditions were sunny and clear on January 21, 2010, with winds between 7 and 8 miles per hour. These are favorable conditions for a balloon float.

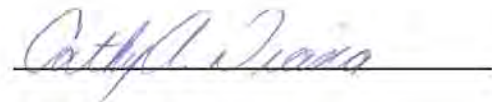
10. Once the balloon was aloft, CHA conducted an in-field reconnaissance of the surrounding area within a two mile radius of the site of the Facility ("Study Area"). CHA performed this in-field reconnaissance to determine the visibility of the proposed Facility within the Study Area.

11. During the in-field reconnaissance, CHA took photographs of the site of the proposed Facility from major streets and intersections, residential areas and other key areas where the balloon was either visible or not visible within the Study Area. CHA's paid particular attention to sensitive visual receptors located within the Study Area.

IN WITNESS WHEREOF, I have hereunto set my hand and seal this 14th day of September, 2010.


Paul Lusitani

Sworn and subscribed to before me this 14th day of September, 2010.



Notary Public
My Commission expires 1/31/2012

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**STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL**

RE: APPLICATION BY T-MOBILE
NORTHEAST LLC FOR A
CERTIFICATE OF ENVIRONMENTAL
COMPATIBILITY AND PUBLIC NEED
FOR A TELECOMMUNICATIONS FACILITY
AT MOOSE HILL ROAD IN THE
TOWN OF GUILFORD, CONNECTICUT

DOCKET NO. ____

Date: September 14, 2010

**AFFIDAVIT OF PAUL LUSITANI REGARDING ADDITIONAL BALLOON FLOAT
AT THE REQUEST OF THE STATE HISTORIC PRESERVATION OFFICE**

I, Paul Lusitani, do hereby declare and state:

1. I am over the age of 18 years, and believe in the obligation of an oath.
2. I am a Project Engineer for Clough Harbour & Associates ("CHA").
3. I have personal knowledge of the above-captioned Application for a Certificate of Environmental Compatibility and Public Need, to be filed with the Connecticut Siting Council ("Application") by T-Mobile Northeast LLC ("T-Mobile"), as well as the specific events attested to in this affidavit.
4. T-Mobile retained CHA to provide a Visual Analysis Report for the proposed telecommunications facility at Moose Hill Road, Guilford, Connecticut ("Facility").
5. On January 21, 2010, I oversaw and/or supervised the initial balloon float at the site of the Facility. The purpose of the balloon float was to verify the sensitive visual receptors in the area and assess whether the Facility would have an impact on those receptors. CHA also conducted the balloon float to confirm CHA's research and computer modeling of the potential visibility of the Facility on the surrounding area.

6. On July 26, 2010, CHA conducted a second balloon float at the site of the Facility.

7. The purpose of the second balloon float was to allow the State Historic Preservation Office ("SHPO") to confirm the potential visibility of the proposed Facility on areas of historic interest.

8. CHA tethered a red balloon, 60 inches in diameter, at the site of the proposed Facility, at a height of 140 feet above grade level.

9. The balloon was aloft from 8:00a.m. until 10:00a.m.

10. The weather conditions were sunny and clear on July 26, 2010, with winds between 5 and 7 miles per hour. These are favorable conditions for a balloon float.

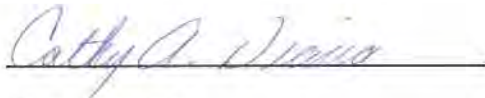
11. Once the balloon was aloft, representatives of SHPO and T-Mobile conducted an in-field reconnaissance of the surrounding area focusing on areas of historic interest. CHA did not participate in the in-field reconnaissance.

IN WITNESS WHEREOF, I have hereunto set my hand and seal this 14th day of September, 2010.



Paul Lusitani

Sworn and subscribed to before me this 14th day of September, 2010.



Notary Public
My Commission expires 1/31/2012

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**STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL**

RE: APPLICATION BY T-MOBILE
NORTHEAST LLC FOR A
CERTIFICATE OF ENVIRONMENTAL
COMPATIBILITY AND PUBLIC NEED
FOR A TELECOMMUNICATIONS FACILITY
AT MOOSE HILL ROAD IN THE
TOWN OF GUILFORD, CONNECTICUT

DOCKET NO. ____

Date: September 14, 2010

**AFFIDAVIT OF PAUL LUSITANI REGARDING ADDITIONAL BALLOON
FLOAT AT THE REQUEST OF THE GUILFORD LAND CONSERVATION TRUST**

I, Paul Lusitani, do hereby declare and state:

1. I am over the age of 18 years, and believe in the obligation of an oath.
2. I am a Project Engineer for Clough Harbour & Associates ("CHA").
3. I have personal knowledge of the above-captioned Application for a Certificate of Environmental Compatibility and Public Need, to be filed with the Connecticut Siting Council ("Application") by T-Mobile Northeast LLC ("T-Mobile"), as well as the specific events attested to in this affidavit.
4. T-Mobile retained CHA to provide a Visual Analysis Report for the proposed telecommunications facility at Moose Hill Road, Guilford, Connecticut ("Facility").
5. On January 21, 2010, I oversaw and/or supervised the initial balloon float at the site of the Facility. The purpose of the balloon float was to verify the sensitive visual receptors in the area and assess whether the Facility would have an impact on those receptors. CHA also conducted the balloon float to confirm CHA's research and computer modeling of the potential visibility of the Facility on the surrounding area.

6. On July 26, 2010, CHA conducted a second balloon float at the site of the Facility. The State Historic Preservation Office ("SHPO") had requested a balloon float for the purpose of confirming the potential visual impact of the proposed Facility on areas of historic interest. The SHPO had also requested that the balloon float occur in the morning.

7. The Guilford Land Conservation Trust ("Land Trust") had also requested a balloon float. The Land Trust wanted to assess the potential visual impact of the proposed Facility on the Westwoods Trail system. The Land Trust had requested initially that the balloon float occur after the close of business.

8. CHA terminated the balloon float after the morning session on July 26, 2010, because the winds had increased to an unacceptable velocity. CHA re-scheduled the balloon float for the morning of July 27, 2010 with the agreement of the Land Trust.

9. On July 27, 2010, CHA conducted a third balloon float.

10. CHA tethered a red balloon, 60 inches in diameter, at the site of the proposed Facility, at a height of 140 feet above grade level.

11. The balloon was aloft from 7:00a.m. until 9:00a.m.

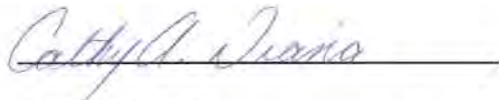
12. The weather conditions were sunny and clear on July 27, 2010, with winds between 4 and 6 miles per hour. These are favorable conditions for a balloon float.

13. CHA did not conduct any additional in-field reconnaissance.

IN WITNESS WHEREOF, I have hereunto set my hand and seal this 14th day of September, 2010.


Paul Lusitani

Sworn and subscribed to before me this 14th day of September, 2010.



Notary Public
My Commission expires 1/31/2012

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Visual Analysis Report

AMTRAK GUILFORD MOOSE HILL ROAD GUILFORD, CT 06437

CHA Project Number: 14957.2001.43000

Prepared for:
T-Mobile Northeast LLC
35 Griffin Road
Bloomfield, CT 06002

Prepared by:


2139 Silas Deane Highway
Rocky Hill, Connecticut 06067
(860) 257-4557

January 2010 Rev. 0
June 2010 Rev. 1
April 2011 Rev. 2

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1.0 INTRODUCTION

CHA conducted a visibility study for the proposed monopole located at Moose Hill Road in Guilford, CT. The purpose of the study was to determine the visual impact, if any, that a proposed monopole would have on the surrounding community within a two mile radius study area. Two techniques were utilized to determine the visual impact within the study area: a computer model using topography and vegetation as constraints to estimate the visual limits, and a field analysis to verify the visual limits determined from the computer model. Research of the study area was also conducted to determine locations of sensitive visual receptors.

2.0 SITE & STUDY AREA DESCRIPTION

The subject parcel is approximately 163 acres. A majority of the parcel is wooded, and there are no residences on the subject parcel. The proposed facility is located in an existing tree clearing in the southwest corner of the property. The base of the tower will be 52' AMSL. The wooded area surrounding the proposed facility will act as a visual buffer to the adjacent residential and wooded parcels.

The topography within the study area consists of hills ranging from 50' AMSL to 150' AMSL. Approximately 3,420 acres, or 42.5%, of the 8,053 acre study area is covered with vegetation. The rolling hills and heavy vegetation will help screen the facility in the surrounding study area. Watercourses occupy approximately 2,180 acres, or 27.1%, of the study area. There are 10 historical sites, 3 parks/recreational areas, 2 trail systems, 3 schools, 1 church, and 1 cemetery within the study area. There is one state designated scenic road, State Route 146, within the study area.

3.0 COMPUTER MODEL VISUAL ANALYSIS

A computer model was developed using a proprietary AutoCAD-based application developed by our Technology Solutions Group to estimate how the surrounding topography and vegetation within a 2 mile radius may obstruct the monopole's visibility. The visibility calculations are completed using digital elevation models (DEM), which is a model of the earth's surface represented by a grid of elevations from USGS topography maps. Each point in the DEM is independently tested for visibility based on the surrounding topography developed from the USGS maps. Once all points have been tested, a map is generated showing areas of visibility and areas screened by topography. Knowing which areas are screened by topography will assist in field determining which areas within the study area may have seasonal visibility. Next, vegetation within the study area is added to the map by digitizing it from 2004 aerial photographs. CHA's application utilizes a vegetation outline layer which is assigned the standard 65' height. A new map is generated showing only areas of visibility based on topography and the vegetation constraint. These visible areas will be verified during the field visual analysis.

4.0 VISUAL RECEPTOR RESEARCH

Research of the surrounding study area was conducted to determine the locations of sensitive visual receptors such as historic sites, historic districts, schools, churches, cemeteries, parks, playgrounds, recreational areas, walking trails, beaches, scenic roads, scenic lands¹, and heritage areas². Historic sites and districts were determined from the National Register of Historic Places. State parks and walking trail systems were determined from the CTDEP website. Surrounding schools, churches, cemeteries, parks, playgrounds,

¹ Scenic Lands acquired pursuant to Public Act No. 445 (February, 1965)

² Connecticut Heritage Areas pursuant to Public Act No. 09-221 (July, 2009)

recreational areas, and beaches were determined from street maps, internet searches, and available mapping from the Town's website. Scenic roads were determined from the Connecticut Department of Transportation (CTDOT) list of designated scenic roads. Scenic lands were determined by contacting the CTDOT. Heritage Areas were determined from available information on individual heritage area websites and internet searches. Inquiries were also made to the Towns of Guilford and Branford to determine if there are any locally designated scenic roads, historic districts or properties, or walking trails. All of the above sensitive visual receptors were added to the viewshed map.

5.0 FIELD VISUAL ANALYSIS

On January 21, 2010 a field visual analysis was conducted to verify the sensitive visual receptors and the limit of visibility determined from our research and computer model. Weather conditions were favorable on the date of the visibility study as it was a clear and sunny day with winds between 7 and 8 MPH; therefore, visibility of the balloon from surrounding areas was not affected. In general, the field visibility study was conducted as follows: A 60" diameter red balloon was flown at a height of 140'-0" above existing grade. Once the balloon was flown, CHA completed a field drive of the surrounding area to determine the visibility of the balloon, and thus the proposed tower. Visibility from the sensitive visual receptors was our primary focus so photos were taken from each of these locations. Photos were also taken from major streets, intersections, and residential areas; from key areas where the balloon was visible; and from key areas where it was not visible. The limits of visibility determined from the computer model were field verified and adjusted as needed. Areas of potential seasonal visibility were field determined and marked on the viewshed map. Finally, the number of residences within the seasonal and year round visible areas was determined.

6.0 REPORT REVISIONS

At the time the field visual analysis was conducted the future monopole was proposed to be 140'-0" in height. Since that time, the decision has been made to lower the proposed monopole by 30 feet to a height of 110'-0". Since the proposed change in height is a reduction, it was possible to accurately modify this report without any additional field work (This would not be possible if additional height was proposed, as previously non-visible areas may have become visible). To facilitate this change, the computer model visual analysis was re-run and the results were compared to the original data. Limits of visibility were then re-drawn (where necessary) for the new tower height. All of the photo simulations were also recreated. The revised photo simulations assisted in determining which originally visible views (seasonal or year round) have become non-visible due to the change in tower height. The new visibility limits and photosimulations were then used to modify Section 8.0: Viewshed Map, Section 9.0: Photo Simulations, and this report.

7.0 CONCLUSION

The results of our visual study are summarized in the following documents: Section 7.0: Viewshed Map, and Section 8.0: Photosims. In conclusion, the year round visual impact to the surrounding community within a two mile radius is limited to the red hatched areas on the viewshed map, which is approximately 15.7%, or 1,072.7 acres, of the total study area. The limit of year round visibility includes the area surrounding the following public streets: a 255' stretch along Moose Hill Road; a 100' stretch along Old Sachems Head Road; a 215' and 560' stretch along Uncas Point Road; a 290' stretch along Uncas Circle; a 1,975' stretch along Shell Beach Road, a 1,025' stretch along Joshua Point Road, a 330' stretch along Rockledge Circle, a 480' stretch along Birch Grove, a 315' stretch along Beach Road, a 300' stretch along Hickory Lane, and a 170' stretch along Juniper Knolls. These areas contain residential properties and will impact the following

number of residences: 2 residences along Moose Hill Road, 8 residences along Old Sachems Head Road, 6 residences along Uncas Point Road, 1 residence along Uncas Circle, 14 residences along Shell Beach Road, 8 residences along Joshua Point Road, 8 residences along Rockledge Circle, 10 residences along Birch Grove, 9 residences along Beach Road, 4 residences along Hickory Lane, and 1 residence along Juniper Knolls. The proposed monopole will be seen year round from the following sensitive visual receptors: offshore sections of the Stony Creek-Thimble Islands Historic District, and Shell Beach.

Immediately outside some of the limits of year round visibility, trees start to screen the proposed monopole giving the potential for seasonal views. The blue hatched areas on the viewshed map indicate the seasonal visual impact determined during leaf off conditions, which is approximately 0.7%, or 54.2 acres, of the total study area. The limit of seasonal visibility includes the area surrounding the following public streets: a 885' and 1,725' stretch along Moose Hill Road; a 470' and 760' stretch along Dromara Road; a 440' and 2,400' stretch along Leetes Island Road (State Route 146); and a 350' stretch along Sanborn Road. Some of these areas contain residential properties and will impact the following number of residences: 13 residences along Moose Hill Road, 7 residences along Dromara Road, 2 residence along Leetes Island Road (State Route 146), and 1 residence along Sanborn Road, 3 residences. The proposed monopole will be seen seasonally from stretches (440' and 2,400') along the Route 146 Historic District, which is one of the sensitive visual receptors identified during research of the study area. Route 146 is also a state designated scenic roadway in the study area.

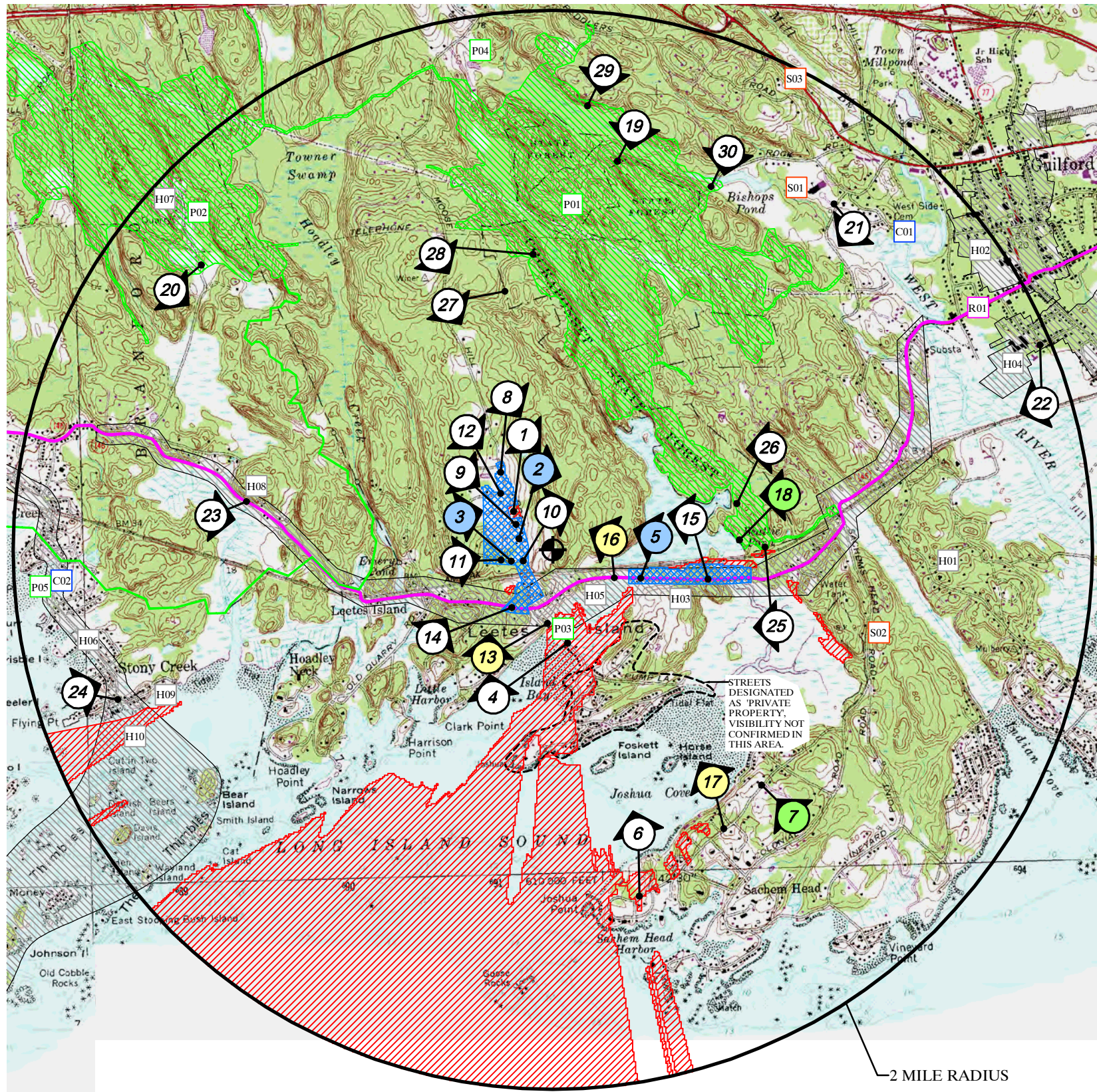
The remainder of the two mile radius study area is screened by topography (2,963.5 acres, 36.8%) and vegetation (3,962.6 acres, 49.2%). Photos documenting the visible conditions described above have been included in the photo-simulations with their locations marked on the viewshed map.

A majority of the views are close proximity views as they are within the inner two-third miles of the study radius. Twelve of the thirteen visible photo locations, or 92%, are close proximity views. The remaining visible photo location, or 8%, is an average distance view as it is within the middle two-third miles of the study radius. None of the visible photo locations are distant views that are within the outer two-third miles of the study radius. Out of the thirteen visible photo locations, three (23%) of them are year round and ten (77%) of them are seasonal.

8.0 VIEWSHED MAPS

Distances from Photo Locations to Tower

PHOTO	DIST. (FT)
01	1,075
02	694
03	842
04	1,849
05	1,809
06	6,987
07	6,156
08	1,829
09	875
10	620
11	1,030
12	1,503
13	1,441
14	1,386
15	3,089
16	1,321
17	6,401
18	3,656
19	7,713
20	8,856
21	8,728
22	10,343
23	6,069
24	9,003
25	4,150
26	3,700
27	5,150
28	5,800
29	8,720
30	7,760



NOTES:

1. Only visible areas are shown on the map utilizing the process described in note 2. The remainder of the map has been estimated to be nonvisible utilizing the process described in note 3.
2. Seasonal and year round areas of visibility were estimated from a field visual analysis within public R.O.W. and public properties. Areas shown on private property were interpolated from the field visual analysis.
3. Nonvisible areas were estimated from a computer generated topography & vegetation analysis and field verification of vegetation & building screening within public R.O.W and public properties. Vegetation limits were determined from 2004 aerial photos and is assumed to be 65' high. Verification of vegetation height, coverage, and type within private areas not visible from public R.O.W or public properties was not field verified.
4. Historical areas were determined from the National Register of Historic Places
5. Parks, schools, cemeteries, and churches were determined from street maps and field observations.
6. Scenic roads, if any, were determined from the CTDOT list of designated scenic roads and field observations.

Legend

	APPROXIMATE LOCATION OF PROPOSED MONOPOLE		COMPUTER SIMULATION PHOTOGRAPH LOCATION
	APPROXIMATE LIMIT OF SEASONAL TOWER VISIBILITY		APPROXIMATE LIMIT OF YEAR ROUND TOWER VISIBILITY
	CHURCH/CEMETERY		PARKS/TRAILS
	HISTORICAL SITE		SCHOOL
	SCENIC ROAD		TRAIL
	VISIBILITY HAS CHANGED FROM YEAR ROUND TO SEASONAL		VISIBILITY HAS CHANGED FROM SEASONAL TO NON-VISIBLE
	VISIBILITY HAS CHANGED FROM YEAR ROUND TO NON-VISIBLE		

- | | | |
|---|--|-----------------------------------|
| Historic Sites: | Parks and Trails: | Schools: |
| H01 Jared Eliot House | P01 Westwoods Trails | S01 A.W. Cox Elementary School |
| H02 Guilford Historic Town Center | P02 Stony Creek Quarry Preserve Trails | S02 Community Nursery School Inc. |
| H03 Pelatiah Leete House | P03 Shell Beach | S03 KinderCare |
| H04 Whitfield Historic District | P04 Peddlers Park | C01 West Side Cemetery |
| H05 Route 146 Historic District | P05 Stony Creek Town Beach | C02 Church of Christ |
| H06 Isaac C. Lewis Cottage | | Church/Cemetery: |
| H07 Norcross Brothers Granite Quarry | | |
| H08 John Rogers House | | Scenic Roads: |
| H09 Stick Style House at Stony Creek | | State Route 146 |
| H10 Stony Creek-Thimble Islands Historic District | | R01 |

Visibility by Acreage

ITEM	APPROXIMATE ACRES	% OF TOTAL AREA
2 MILE RADIUS AREA	8,053	100%
NOT VISIBLE DUE TO TOPOGRAPHY	2,963.5	36.8%
NOT VISIBLE DUE TO VEGETATION	3,962.6	49.2%
VISIBLE YEAR ROUND	1,072.7	13.3%
POTENTIAL SEASONAL VISIBILITY	54.2	0.7%

2 MILE VIEWSHED ANALYSIS MAP
MOOSE HILL ROAD, GUILFORD, CT
VISUAL IMPACT ASSESSMENT

PREPARED FOR:

T-MOBILE NORTHEAST LLC

35 GRIFFIN ROAD
 BLOOMFIELD, CT 06002
 OFFICE: (860)-692-7100

PREPARED BY:

Drawing Copyright © 2011

CHIA

2136 Silas Deane Highway, Suite 212 - Rocky Hill, CT 06067-2338
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CHIA Project No. 14957-2001-1101

APRIL 2011

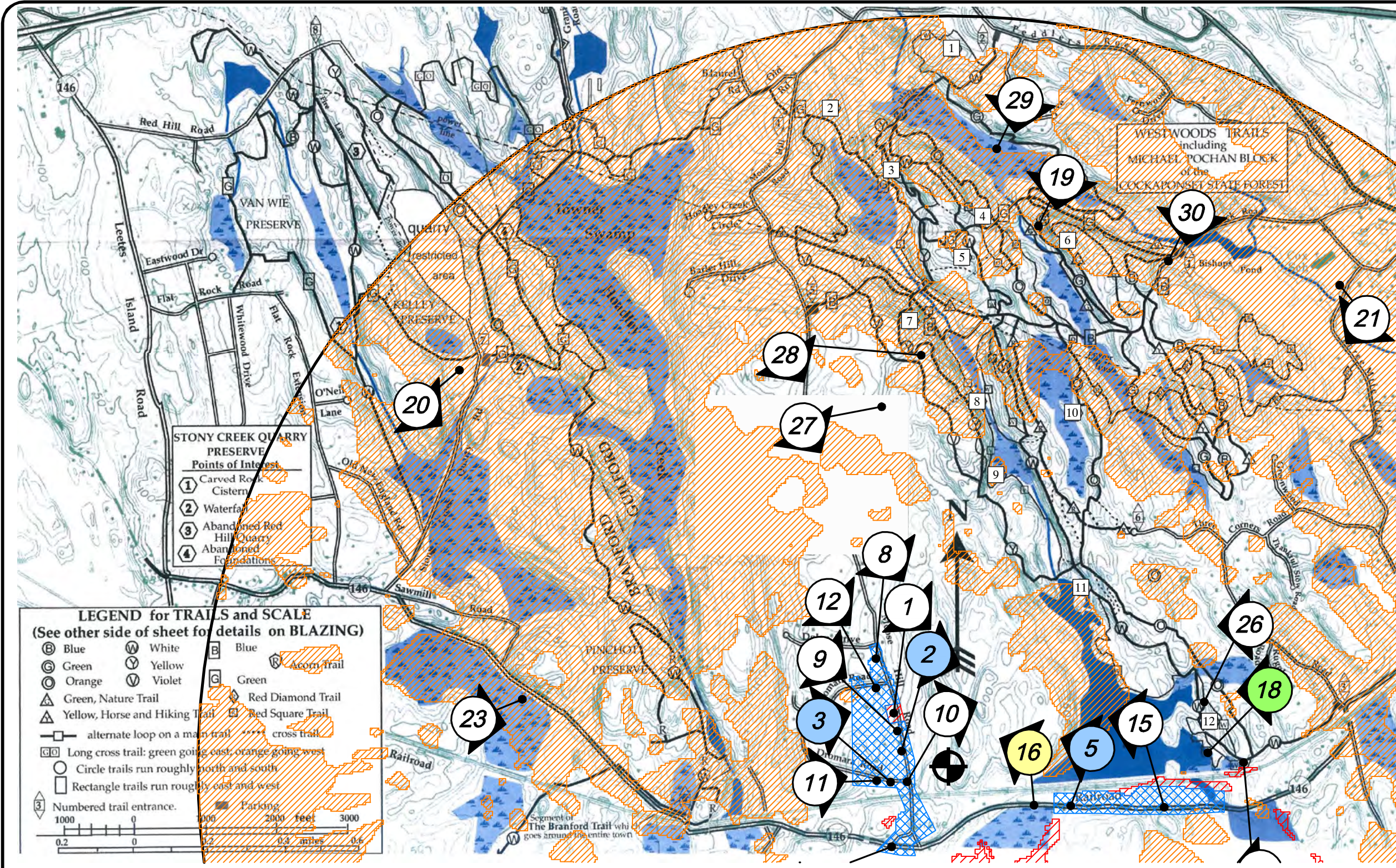
0 625' 1250' 2500' 5000'

FIGURE VS-01

Visibility by Residence

STREET	YEAR ROUND TOTAL	SEASONAL TOTAL	STREET	YEAR ROUND TOTAL	SEASONAL TOTAL	STREET	YEAR ROUND TOTAL	SEASONAL TOTAL
Moose Hill Road	2	13	Uncas Circle	1	None	Rockledge Circle*	8	None
Dromara Road	None	7	Shell Beach Road (North of Pump Lane)	10	None	Birch Grove*	10	None
Leetes Island Road	None	2	Shell Beach Road* (South of Pump Lane)	4	None	Beach Road*	9	None
Sanborn Road	None	1	Joshua Point Road*	8	None	Hickory Lane*	4	None
Old Sachems Head Road	8	None				Juniper Knolls*	1	None
Uncas Point Road	6	None						

*Streets designated as 'Private Property'. Visibility not confirmed in these areas. Residence counts derived from computer visibility model and aerial imagery.



- WESTWOODS POINTS OF INTEREST VISIBILITY SUMMARY:**
- 1 LAUREL TRAIL: NOT VISIBLE DUE TO VEGETATION & TOPOGRAPHY
 - 2 COLONIAL CAVE: NOT VISIBLE DUE TO TOPOGRAPHY
 - 3 THE RIFT: NOT VISIBLE DUE TO VEGETATION & TOPOGRAPHY
 - 4 MASSIVE ROCK FORMS: NOT VISIBLE DUE TO TOPOGRAPHY
 - 5 NATURAL MONUMENT: NOT VISIBLE DUE TO VEGETATION
 - 6 L.I. SOUND VISTA: NOT VISIBLE DUE TO TOPOGRAPHY
 - 7 ROCK CANOPY: NOT VISIBLE DUE TO TOPOGRAPHY
 - 8 WATERFALL: NOT VISIBLE DUE TO TOPOGRAPHY
 - 9 GREAT FALLEN CLIFF: NOT VISIBLE DUE TO TOPOGRAPHY
 - 10 INDIAN CAVE: NOT VISIBLE DUE TO VEGETATION
 - 11 LOST LAKE VISTA: NOT VISIBLE DUE TO VEGETATION
 - 12 CARVED ROCK SCULPTURES: NOT VISIBLE DUE TO VEGETATION

- STONY CREEK QUARRY PRESERVE Points of Interest**
- 1 Carved Rock Cistern
 - 2 Waterfall
 - 3 Abandoned Red Hill Quarry
 - 4 Abandoned Foundations

LEGEND for TRAILS and SCALE
(See other side of sheet for details on BLAZING)

- Blue
- Green
- Orange
- White
- Yellow
- Violet
- Blue
- Green
- Green, Nature Trail
- Yellow, Horse and Hiking Trail
- alternate loop on a main trail
- Long cross trail: green going east, orange going west
- Circle trails run roughly north and south
- Rectangle trails run roughly east and west
- Numbered trail entrance.
- Acorn trail
- Red Diamond Trail
- Red Square Trail
- cross trail
- Parking

Scale: 0 to 3000 feet / 0 to 0.4 miles

Revised Tower Height Legend

- # (Blue circle) VISIBILITY HAS CHANGED FROM YEAR ROUND TO SEASONAL
- # (Yellow circle) VISIBILITY HAS CHANGED FROM SEASONAL TO NON-VISIBLE
- # (Green circle) VISIBILITY HAS CHANGED FROM YEAR ROUND TO NON-VISIBLE

Westwoods Visibility by Acres

ITEM	ACRES	% OF TOTAL AREA
WESTWOODS TOTAL AREA	825	100%
NOT VISIBLE DUE TO TOPOGRAPHY	565.9	68.6%
NOT VISIBLE DUE TO VEGETATION	259.1	31.4%
VISIBLE YEAR ROUND	0.0	0.0%

Legend

- APPROXIMATE LOCATION OF PROPOSED MONOPOLE
- APPROXIMATE LIMIT OF SEASONAL TOWER VISIBILITY
- APPROXIMATE LIMIT OF YEAR ROUND TOWER VISIBILITY
- LIMIT OF AREA NOT VISIBLE DUE TO TOPOGRAPHY
- COMPUTER SIMULATION PHOTOGRAPH LOCATION

PREPARED FOR:
T-MOBILE NORTHEAST LLC
35 GRIFFIN ROAD
BLOOMFIELD, CT 06002
OFFICE: (860)-692-7100

PREPARED BY:
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2136 Silas Deane Highway, Suite 212 - Rocky Hill, CT 06067-2338
Mail: (860) 257-4557 - www.chacompanies.com
CHA Project No. 14957-2001-1101

WESTWOODS TRAIL VIEWSHED ANALYSIS MAP
MOOSE HILL ROAD, GUILFORD, CT
VISUAL IMPACT ASSESSMENT

APRIL 2011

0 750' 1500' 3000'

NORTH

FIGURE VS-02

9.0 PHOTOSIMS



Photosim for conceptual purposes only - actual antenna & equipment locations to be determined based on final engineering design



VIEW 1 - EXISTING VIEW FROM
MOOSE HILL ROAD LOOKING
SOUTHEAST TOWARDS SITE

T-MOBILE NORTHEAST LLC

35 GRIFFIN ROAD
BLOOMFIELD, CT 06002

DATE: APR 2011

SITE: AMTRAK
GUILFORD



Photosim for conceptual purposes only - actual antenna & equipment locations to be determined based on final engineering design



VIEW 1 - PROPOSED VIEW FROM
MOOSE HILL ROAD LOOKING
SOUTHEAST TOWARDS SITE

T-MOBILE NORTHEAST LLC

35 GRIFFIN ROAD
BLOOMFIELD, CT 06002

DATE: APR 2011

SITE: AMTRAK
GUILFORD



Photosim for conceptual purposes only - actual antenna & equipment locations to be determined based on final engineering design



VIEW 2 - EXISTING VIEW FROM
MOOSE HILL ROAD LOOKING EAST
TOWARDS SITE

T-MOBILE NORTHEAST LLC

35 GRIFFIN ROAD
BLOOMFIELD, CT 06002

DATE: APR 2011

SITE: AMTRAK
GUILFORD



Photosim for conceptual purposes only - actual antenna & equipment locations to be determined based on final engineering design



VIEW 2 - PROPOSED VIEW FROM
MOOSE HILL ROAD LOOKING EAST
TOWARDS SITE

T-MOBILE NORTHEAST LLC

35 GRIFFIN ROAD
BLOOMFIELD, CT 06002

DATE: APR 2011

SITE: AMTRAK
GUILFORD



Photosim for conceptual purposes only - actual antenna & equipment locations to be determined based on final engineering design



VIEW 3 - EXISTING VIEW FROM
DROMARA ROAD LOOKING EAST
TOWARDS SITE

T-MOBILE NORTHEAST LLC

35 GRIFFIN ROAD
BLOOMFIELD, CT 06002

DATE: APR 2011

SITE: AMTRAK
GUILFORD



Photosim for conceptual purposes only - actual antenna & equipment locations to be determined based on final engineering design



VIEW 3 - PROPOSED VIEW FROM
DROMARA ROAD LOOKING EAST
TOWARDS SITE

T-MOBILE NORTHEAST LLC

35 GRIFFIN ROAD
BLOOMFIELD, CT 06002

DATE: APR 2011

SITE: AMTRAK
GUILFORD



Photosim for conceptual purposes only - actual antenna & equipment locations to be determined based on final engineering design



VIEW 4 - EXISTING VIEW FROM
SHELL BEACH ROAD LOOKING NORTH
TOWARDS SITE

T-MOBILE NORTHEAST LLC

35 GRIFFIN ROAD
BLOOMFIELD, CT 06002

DATE: APR 2011

SITE: AMTRAK
GUILFORD



Photosim for conceptual purposes only - actual antenna & equipment locations to be determined based on final engineering design



VIEW 4 - PROPOSED VIEW FROM
SHELL BEACH ROAD LOOKING NORTH
TOWARDS SITE

T-MOBILE NORTHEAST LLC

35 GRIFFIN ROAD
BLOOMFIELD, CT 06002

DATE: APR 2011

SITE: AMTRAK
GUILFORD



Photosim for conceptual purposes only - actual antenna & equipment locations to be determined based on final engineering design



VIEW 5 - EXISTING VIEW FROM
LEETES ISLAND ROAD LOOKING WEST
TOWARDS SITE

T-MOBILE NORTHEAST LLC

35 GRIFFIN ROAD
BLOOMFIELD, CT 06002

DATE: APR 2011

SITE: AMTRAK
GUILFORD



Photosim for conceptual purposes only - actual antenna & equipment locations to be determined based on final engineering design



VIEW 5 - PROPOSED VIEW FROM
LEETES ISLAND ROAD LOOKING WEST
TOWARDS SITE

T-MOBILE NORTHEAST LLC

35 GRIFFIN ROAD
BLOOMFIELD, CT 06002

DATE: APR 2011

SITE: AMTRAK
GUILFORD



Photosim for conceptual purposes only - actual antenna & equipment locations to be determined based on final engineering design



VIEW 6 - EXISTING VIEW FROM
UNCAS POINT ROAD LOOKING NORTH
TOWARDS SITE

T-MOBILE NORTHEAST LLC

35 GRIFFIN ROAD
BLOOMFIELD, CT 06002

DATE: APR 2011

SITE: AMTRAK
GUILFORD



Photosim for conceptual purposes only - actual antenna & equipment locations to be determined based on final engineering design



VIEW 6 - PROPOSED VIEW FROM
UNCAS POINT ROAD LOOKING NORTH
TOWARDS SITE

T-MOBILE NORTHEAST LLC

35 GRIFFIN ROAD
BLOOMFIELD, CT 06002

DATE: APR 2011

SITE: AMTRAK
GUILFORD



Photosim for conceptual purposes only - actual antenna & equipment locations to be determined based on final engineering design



VIEW 7 - NON-VISIBLE VIEW FROM
OLD SACHEMS HEAD ROAD LOOKING
NORTHWEST TOWARDS SITE

T-MOBILE NORTHEAST LLC

35 GRIFFIN ROAD
BLOOMFIELD, CT 06002

DATE: APR 2011

SITE: AMTRAK
GUILFORD



Photosim for conceptual purposes only - actual antenna & equipment locations to be determined based on final engineering design



VIEW 8 - EXISTING VIEW FROM
MOOSE HILL ROAD LOOKING
SOUTHEAST TOWARDS SITE

T-MOBILE NORTHEAST LLC

35 GRIFFIN ROAD
BLOOMFIELD, CT 06002

DATE: APR 2011

SITE: AMTRAK
GUILFORD



Photosim for conceptual purposes only - actual antenna & equipment locations to be determined based on final engineering design



VIEW 8 - PROPOSED VIEW FROM
MOOSE HILL ROAD LOOKING
SOUTHEAST TOWARDS SITE
(SEASONAL VISIBILITY)

T-MOBILE NORTHEAST LLC

35 GRIFFIN ROAD
BLOOMFIELD, CT 06002

DATE: APR 2011

SITE: AMTRAK
GUILFORD



Photosim for conceptual purposes only - actual antenna & equipment locations to be determined based on final engineering design



VIEW 9 - EXISTING VIEW FROM
MOOSE HILL ROAD LOOKING
SOUTHEAST TOWARDS SITE

T-MOBILE NORTHEAST LLC

35 GRIFFIN ROAD
BLOOMFIELD, CT 06002

DATE: APR 2011

SITE: AMTRAK
GUILFORD



Photosim for conceptual purposes only - actual antenna & equipment locations to be determined based on final engineering design



VIEW 9 - PROPOSED VIEW FROM
MOOSE HILL ROAD LOOKING
SOUTHEAST TOWARDS SITE
(SEASONAL VISIBILITY)

T-MOBILE NORTHEAST LLC

35 GRIFFIN ROAD
BLOOMFIELD, CT 06002

DATE: APR 2011

SITE: AMTRAK
GUILFORD



Photosim for conceptual purposes only - actual antenna & equipment locations to be determined based on final engineering design



VIEW 10 - EXISTING VIEW FROM
MOOSE HILL ROAD LOOKING
NORTHEAST TOWARDS SITE

T-MOBILE NORTHEAST LLC

35 GRIFFIN ROAD
BLOOMFIELD, CT 06002

DATE: APR 2011

SITE: AMTRAK
GUILFORD



Photosim for conceptual purposes only - actual antenna & equipment locations to be determined based on final engineering design



VIEW 10 - PROPOSED VIEW FROM
MOOSE HILL ROAD LOOKING
NORTHEAST TOWARDS SITE
(SEASONAL VISIBILITY)

T-MOBILE NORTHEAST LLC

35 GRIFFIN ROAD
BLOOMFIELD, CT 06002

DATE: APR 2011

SITE: AMTRAK
GUILFORD



Photosim for conceptual purposes only - actual antenna & equipment locations to be determined based on final engineering design



VIEW 11 - EXISTING VIEW FROM
DROMARA ROAD LOOKING EAST
TOWARDS SITE

T-MOBILE NORTHEAST LLC

35 GRIFFIN ROAD
BLOOMFIELD, CT 06002

DATE: APR 2011

SITE: AMTRAK
GUILFORD



Photosim for conceptual purposes only - actual antenna & equipment locations to be determined based on final engineering design



VIEW 11 - PROPOSED VIEW FROM
DROMARA ROAD LOOKING EAST
TOWARDS SITE
(SEASONAL VISIBILITY)

T-MOBILE NORTHEAST LLC

35 GRIFFIN ROAD
BLOOMFIELD, CT 06002

DATE: APR 2011

SITE: AMTRAK
GUILFORD



Photosim for conceptual purposes only - actual antenna & equipment locations to be determined based on final engineering design



VIEW 12 - EXISTING VIEW FROM
DROMARA ROAD LOOKING
SOUTHEAST TOWARDS SITE

T-MOBILE NORTHEAST LLC

35 GRIFFIN ROAD
BLOOMFIELD, CT 06002

DATE: APR 2011

SITE: AMTRAK
GUILFORD



Photosim for conceptual purposes only - actual antenna & equipment locations to be determined based on final engineering design



VIEW 12 - PROPOSED VIEW FROM
DROMARA ROAD LOOKING
SOUTHEAST TOWARDS SITE
(SEASONAL VISIBILITY)

T-MOBILE NORTHEAST LLC

35 GRIFFIN ROAD
BLOOMFIELD, CT 06002

DATE: APR 2011

SITE: AMTRAK
GUILFORD



Photosim for conceptual purposes only - actual antenna & equipment locations to be determined based on final engineering design



VIEW 13 - NON-VISIBLE VIEW FROM
SHELL BEACH ROAD LOOKING NORTH
TOWARDS SITE

T-MOBILE NORTHEAST LLC

35 GRIFFIN ROAD
BLOOMFIELD, CT 06002

DATE: APR 2011

SITE: AMTRAK
GUILFORD



Photosim for conceptual purposes only - actual antenna & equipment locations to be determined based on final engineering design



VIEW 14 - EXISTING VIEW FROM
LEETES ISLAND ROAD LOOKING
NORTHEAST TOWARDS SITE

T-MOBILE NORTHEAST LLC

35 GRIFFIN ROAD
BLOOMFIELD, CT 06002

DATE: APR 2011

SITE: AMTRAK
GUILFORD



Photosim for conceptual purposes only - actual antenna & equipment locations to be determined based on final engineering design



VIEW 14 - PROPOSED VIEW FROM
LEETES ISLAND ROAD LOOKING
NORTHEAST TOWARDS SITE
(SEASONAL VISIBILITY)

T-MOBILE NORTHEAST LLC

35 GRIFFIN ROAD
BLOOMFIELD, CT 06002

DATE: APR 2011

SITE: AMTRAK
GUILFORD



Photosim for conceptual purposes only - actual antenna & equipment locations to be determined based on final engineering design



VIEW 15 - EXISTING VIEW FROM
LEETES ISLAND ROAD LOOKING WEST
TOWARDS SITE

T-MOBILE NORTHEAST LLC

35 GRIFFIN ROAD
BLOOMFIELD, CT 06002

DATE: APR 2011

SITE: AMTRAK
GUILFORD



Photosim for conceptual purposes only - actual antenna & equipment locations to be determined based on final engineering design



VIEW 15 - PROPOSED VIEW FROM
LEETES ISLAND ROAD LOOKING WEST
TOWARDS SITE
(SEASONAL VISIBILITY)

T-MOBILE NORTHEAST LLC

35 GRIFFIN ROAD
BLOOMFIELD, CT 06002

DATE: APR 2011

SITE: AMTRAK
GUILFORD



Photosim for conceptual purposes only - actual antenna & equipment locations to be determined based on final engineering design



VIEW 16 - NON-VISIBLE VIEW FROM
LEETES ISLAND ROAD LOOKING WEST
TOWARDS SITE

T-MOBILE NORTHEAST LLC

35 GRIFFIN ROAD
BLOOMFIELD, CT 06002

DATE: APR 2011

SITE: AMTRAK
GUILFORD



Photosim for conceptual purposes only - actual antenna & equipment locations to be determined based on final engineering design



VIEW 17 - NON-VISIBLE VIEW FROM
OLD SACHEMS HEAD ROAD LOOKING
NORTHWEST TOWARDS SITE

T-MOBILE NORTHEAST LLC

35 GRIFFIN ROAD
BLOOMFIELD, CT 06002

DATE: APR 2011

SITE: AMTRAK
GUILFORD



Photosim for conceptual purposes only - actual antenna & equipment locations to be determined based on final engineering design



VIEW 18 - NON-VISIBLE VIEW FROM
WESTWOODS TRAILS LOOKING
WEST TOWARDS SITE

T-MOBILE NORTHEAST LLC

35 GRIFFIN ROAD
BLOOMFIELD, CT 06002

DATE: APR 2011

SITE: AMTRAK
GUILFORD



Photosim for conceptual purposes only - actual antenna & equipment locations to be determined based on final engineering design



VIEW 19 - NON-VISIBLE VIEW
FROM SCENIC VIEWPOINT ON
WESTWOODS TRAILS LOOKING SOUTH
TOWARDS SITE

T-MOBILE NORTHEAST LLC

35 GRIFFIN ROAD
BLOOMFIELD, CT 06002

DATE: APR 2011

SITE: AMTRAK
GUILFORD



Photosim for conceptual purposes only - actual antenna & equipment locations to be determined based on final engineering design



VIEW 20 - NON-VISIBLE VIEW
FROM QUARRY ROAD LOOKING
SOUTHEAST TOWARDS SITE

T-MOBILE NORTHEAST LLC

35 GRIFFIN ROAD
BLOOMFIELD, CT 06002

DATE: APR 2011

SITE: AMTRAK
GUILFORD



Photosim for conceptual purposes only - actual antenna & equipment locations to be determined based on final engineering design



VIEW 21 - NON-VISIBLE VIEW
FROM 3 MILE COURSE LOOKING
SOUTHWEST TOWARDS SITE

T-MOBILE NORTHEAST LLC

35 GRIFFIN ROAD
BLOOMFIELD, CT 06002

DATE: APR 2011

SITE: AMTRAK
GUILFORD



Photosim for conceptual purposes only - actual antenna & equipment locations to be determined based on final engineering design



VIEW 22 - NON-VISIBLE VIEW
FROM NORTON AVENUE LOOKING
SOUTHWEST TOWARDS SITE

T-MOBILE NORTHEAST LLC

35 GRIFFIN ROAD
BLOOMFIELD, CT 06002

DATE: APR 2011

SITE: AMTRAK
GUILFORD



Photosim for conceptual purposes only - actual antenna & equipment locations to be determined based on final engineering design



VIEW 23 - NON-VISIBLE VIEW
FROM LEETES ISLAND ROAD LOOKING
EAST TOWARDS SITE

T-MOBILE NORTHEAST LLC

35 GRIFFIN ROAD
BLOOMFIELD, CT 06002

DATE: APR 2011

SITE: AMTRAK
GUILFORD



Photosim for conceptual purposes only - actual antenna & equipment locations to be determined based on final engineering design



VIEW 24 - NON-VISIBLE VIEW
FROM FLYING POINT ROAD LOOKING
EAST TOWARDS SITE

T-MOBILE NORTHEAST LLC

35 GRIFFIN ROAD
BLOOMFIELD, CT 06002

DATE: APR 2011

SITE: AMTRAK
GUILFORD

EXHIBIT O



April 21, 2011

Vanasse Hangen Brustlin, Inc.

Ref: 40505.22

Mr. Scott Chasse
All-Points Technology Corp., P.C.
3 Saddlebrook Drive
Killingworth, Connecticut 06419

Re: Review of Wetland Delineation and Coastal Consistency Analysis
Proposed Wireless Telecommunication Facility
T-Mobile Site I.D.# CTFF310
Moose Hill Road
Guilford, Connecticut

Dear Mr. Chasse:

Vanasse Hangen Brustlin, Inc. (VHB) understands that T-Mobile proposes to construct a wireless telecommunications facility (herein referred to as "Facility") in the southwest portion of a 163± acre parcel (herein referred to as "Site") located on the east side of Moose Hill Road and north of Amtrak rail line. An existing gravel drive currently provides access into the southern portion of the Site from Moose Hill Road along the southern property boundary. The gravel drive crosses over a narrow forested wetland and associated intermittent watercourse then enters a small field where the proposed Facility will be located in the northern end of the field. The existing access drive will require widening to accommodate a proposed 12-foot wide gravel access drive that will provide access to the proposed T-Mobile Facility.


Wetlands were previously delineated by Soil Science and Environmental Services, Inc. (SS&ES) on November 17, 2009, during which wetlands were delineated in the southern portion of the Site. Identified wetlands consist of wet meadow, sapling/shrub and forested wetland habitats associated with an intermittent watercourse that flows to the south. Dean Gustafson, a Professional Soil Scientist with VHB, performed a field review of the previous wetland delineation on July 23, 2010 and found the delineation to be substantially correct. A copy of the SS&ES report is enclosed for reference.

A Coastal Consistency Review was also performed by SS&ES as documented in a December 18, 2009 report; a copy is enclosed. The nearest coastal resources, tidal wetlands, are located approximately 1,050 feet southeast of the proposed Facility; a Tidal Wetlands & Coastal Boundary Map is enclosed. VHB has reviewed the SS&ES Coastal Consistency Review report and it is our opinion that overall it properly evaluates the proposed project for consistency with the Connecticut Coastal Management Act (CGS Section 22a-90 through 22a-112) and the proposed Facility is adequately protective of the interests of these regulations and the State's coastal resources. However, the SS&ES report did not address one of the potential impacts to coastal resources: *Degrading visual quality by significantly altering the natural features of vistas and viewpoints.* VHB offers the following analysis regarding this item:

The proposed 110-foot monopole, which will be painted medium gray-brown with flush-mounted antenna, would not significantly obstruct views of coastal resources from scenic overlooks or publically accessible areas. Refer to Visual Analysis Report, prepared by CHA and dated January 2010, in particular photo locations 4, 6, 7, 13, 17 and 24 for representative views from near coastal resource areas located at various distances from the proposed Facility. Please note that this visual assessment was for a 140-foot standard monopole facility, which has now been reduced to a height of 110 feet based on a conditional "no adverse effect" determination detailed in a February 16, 2011 letter from the State Historic Preservation Office that details the noted visual mitigation measures. Therefore, based on the original visual analysis and taking into account the reduction in height and the stealth measures to mitigate visibility (e.g., painted medium gray-brown with flush-mounted antenna), the proposed Facility would not be considered to significantly obstruct views of coastal resources.

Very truly yours,

VANASSE HANGEN BRUSTLIN, INC.


Dean Gustafson
Professional Soil Scientist
Senior Environmental Scientist

Enclosures



Attachments



-
- SS&ES Wetlands/Watercourses and Soil Report, November 17, 2009
 - SS&ES Coastal Consistency Review, December 18, 2009
 - VHB Tidal Wetlands & Coastal Boundary Map

SOIL SCIENCE AND ENVIRONMENTAL SERVICES, INC.

545 Highland Avenue * Route 10 * Cheshire * Connecticut * 06410 * (203) 272-7837
FAX (203) 272-6698

WETLANDS/WATERCOURSES AND SOIL REPORT

To: All-Points Technology Corporation, P.C.
3 Saddlebrook Drive
Killingworth, CT 06419

SSES Job No: 2009-201-CT-GUI-1
Client Job No:
Site Inspection Date: November 17, 2009

PROJECT TITLE AND LOCATION: Proposed Wireless Communication Facility, Amtrak North,
Moose Hill Road, Guilford, CT

IDENTIFICATION OF WETLANDS AND WATERCOURSES RESOURCES

WETLANDS AND WATERCOURSES PRESENT ON PROPERTY: Yes XX No _____

Wetlands: Inland Wetlands XX Watercourses: Streams XX

Tidal Wetlands _____ Waterbodies _____

Remarks: _____

VEGETATION COMMUNITIES PRESENT IN WETLANDS

Forest XX Sapling/Shrub XX Wet Meadow XX Marsh _____ Field/Lawn _____

SOIL MOISTURE CONDITION

Dry _____

Moist XX

Wet XX

WINTER CONDITIONS

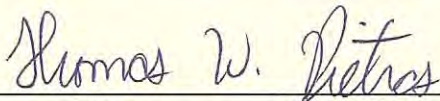
Frost Depth: _____ inches

Snow Depth: _____ inches

The classification system of the National Cooperative Soil Survey, USDA, Natural Resources Conservation Service and the State Soil Legend were used in this investigation. The investigation was conducted by the undersigned Registered Soil Scientist. A sketch map showing wetland boundaries and the numbering sequence of wetland markers, watercourses and soil types in both wetland and non-wetlands are included with this report. After the wetland boundary and/or watercourse flags have been located/plotted by the surveyor, it is recommended that a copy of the survey map be sent to our firm for review. All wetland boundary lines established by the undersigned Registered Soil Scientist are subject to change until officially adopted by local, state or federal regulatory agencies.

Respectfully Submitted by

SOIL SCIENCE AND ENVIRONMENTAL SERVICES, INC.



Thomas W. Pietras
Registered Professional Soil Scientist
Professional Wetland Scientist

SOIL SCIENCE AND ENVIRONMENTAL SERVICES, INC.

545 Highland Avenue * Route 10 * Cheshire * Connecticut * 06410 * (203) 272-7837

FAX (203) 272-6698

WETLANDS/WATERCOURSES AND SOIL REPORT

PROJECT TITLE AND LOCATION: Proposed Communications Tower, Amtrak North,
Moose Hill Road, Guilford, CT

NUMBERING SEQUENCE OF WETLAND BOUNDARY LINE MARKERS:

1 thru 21 22 thru 32

SOILS SECTION:

Soil Legend: State Soil Number/County Soil Symbol, Soil Series Name, Taxonomic Class & Brief Description.

WETLAND SOILS

6 Wilbraham and Menlo soils, extremely stony (Aquic Dystrudepts & Histic Humaquepts) – These are deep, poorly drained and very poorly drained, reddish-colored, loamy textured, glacial till developed over dense, basal till. The till was derived from sandstone, shale and basalt. The hardpan is within 20 to 30 inches. These soils occur on glaciated plains, hills and ridges.

NON-WETLAND SOILS

55 Watchaug fine sandy loam (Aquic Dystrudepts) - This is a deep, moderately well drained, friable, reddish-colored, coarse-loamy textured, glacial till soil derived from sandstone, shale and basalt. Watchaug soils occur on glaciated plains, hills and ridges.

77 Cheshire-Holyoke complex (Typic & Lithic Dystrudepts) - These are deep (> 5 feet) and shallow to bedrock (10-20 inches), well drained and somewhat excessively drained, friable, reddish-brown, coarse-loamy textured, glacial till soils derived from sandstone, shale and basalt. The Cheshire-Holyoke complex occurs on glaciated plains, hills and ridges.

78 Holyoke-rock outcrop complex (Lithic Dystrudepts) - This map unit consists mainly of shallow (10-20 inchse to bedrock) soils that are somewhat excessively drained, friable, reddish-brown, coarse-loamy textured, glacial till soils derived from sandstone, shale and basalt along with bedrock outcrops. The Holyoke-rock outcrop complex occurs on glaciated plains, hills and ridges.

SOIL SCIENCE AND ENVIRONMENTAL SERVICES, INC.

545 Highland Avenue * Route 10 * Cheshire * Connecticut * 06410 * (203) 272-7837

FAX (203) 272-6698

DEFINITIONS AND METHODOLOGY

DEFINITIONS OF STATE REGULATED WETLANDS & WATERCOURSES

INLAND WETLANDS AND WATERCOURSES: According to Section 22a-38 of the State of Connecticut Inland Wetlands and Watercourses Act, Wetlands "means land, including submerged land, not regulated pursuant to sections 22a-28 to 22a-35, which consists of any of the soil types designated as poorly drained, very poorly drained, alluvial, and floodplain by the National Cooperative Soils Survey, as may be amended from time to time, of the Natural Resources Conservation Service (NRCS) of the United States Department of Agriculture." Watercourses "means rivers, streams, brooks, waterways, lakes, ponds, marshes, swamps, bogs and all other bodies of water, natural or artificial, vernal or intermittent, public or private. Intermittent watercourses shall be delineated by a defined permanent channel and bank and the occurrence of two or more of the following characteristics: (A) Evidence of scour or deposits of recent alluvium or detritus, (B) the presence of standing or flowing water for a duration longer than a particular storm incident, and (C) the presence of hydrophytic vegetation."

TIDAL WETLANDS: According to Connecticut General Statutes, Sec. 22a-29 (2) of the Tidal Wetlands Act, Tidal Wetlands are defined as "those areas which border on or lie beneath tidal waters, such as, but not limited to banks, bogs, salt marsh, swamps, meadows, flats, or other low lands subject to tidal action, including those areas now or formerly connected to tidal waters, and whose surface is at or below an elevation of one foot above local extreme high water; and upon which may grow or be capable of growing some, but not necessarily all of the following:" (list of those plants common to tidal marshes, brackish wetlands and other wetlands which are subject to tidal influence).

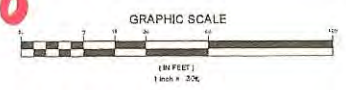
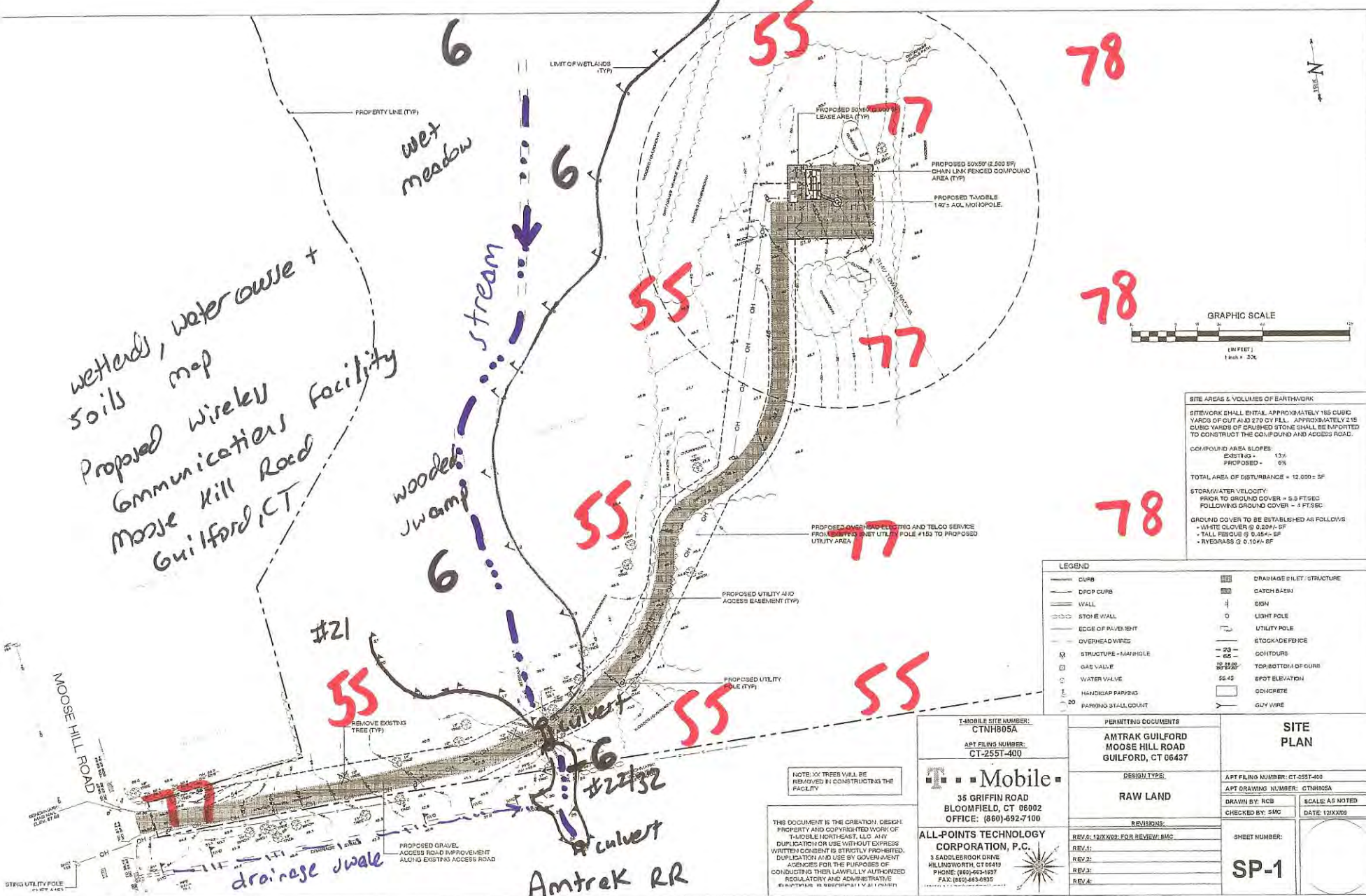
METHODOLOGY FOR IDENTIFICATION OF SOILS, WETLANDS & WATERCOURSES

1) **SOILS IDENTIFICATION:** Soils are investigated by digging test holes with a spade and auger. Test holes are typically dug to depths of between 15 and 40 inches. Based on soil features, including coloration patterns, texture and depths to restrictive layers, the soils are identified by soil series utilizing the classification system of the National Cooperative Soil Survey. The soil map series correspond with the State Soil Map Legend established by USDA, NRCS in the State of Connecticut Soil Survey. For further information about soils refer to the NRCS website for CT: www.ct.nrcs.usda.gov

2) **INLAND WETLAND DELINEATION:** Soil test holes and borings are made in selected areas in order to determine the lateral extent of Inland Wetlands. The boundaries of all Inland Wetlands on each project site are delineated with consecutively numbered survey tapes, unless instructed by the client to only map wetland boundaries for planning purposes.

3) **IDENTIFICATION OF WATERCOURSES:** Watercourse locations are sketched onto maps. Often ponds, streams and rivers are already shown on the survey map. If a watercourse is not shown on a survey map, survey tapes are placed along the channel and labeled "Intermittent or Perennial Watercourse."

4) **TIDAL WETLANDS:** Tidal Wetlands are identified based on a predominance of tidal wetland plants and observation of physical markings or water laid deposits resulting from tidal action. Tidal Wetland boundaries are established by locating the upland limits of the "Listed Plants" from the Tidal Wetlands Act to the extent that these plants reflect inundation by tides.



SITE AREAS & VOLUMES OF EARTHWORK

SITEWORK SHALL BE AT 1% APPROXIMATELY 185 CUBIC YARDS OF CUT AND 270 CY FILL. APPROXIMATELY 215 CUBIC YARDS OF CRUSHED STONE SHALL BE IMPORTED TO CONSTRUCT THE COMPOUND AND ACCESS ROAD.

COMPOUND AREA SLOPES
 EXISTING - 12%
 PROPOSED - 6%

TOTAL AREA OF DISTURBANCE = 12,000 ± SF

STORMWATER VELOCITY:
 PRIOR TO GROUND COVER = 5.5 FT/SEC
 FOLLOWING GROUND COVER = 4 FT/SEC

GROUND COVER TO BE ESTABLISHED AS FOLLOWS:
 - WHITE CLOVER @ 0.20% ± SF
 - TALL FESCUE @ 0.25% ± SF
 - RYEGRASS @ 0.10% ± SF

LEGEND	
	CURB
	DROP CURB
	WALL
	STONE WALL
	EDGE OF PAVEMENT
	OVERHEAD WIRES
	STRUCTURE - MAINSILE
	GAS VALVE
	WATER VALVE
	HANDICAP PARKING
	PARKING STALL COUNT
	DRAINAGE DILET STRUCTURE
	CATCH BASIN
	SIGN
	LIGHT POLE
	UTILITY POLE
	STOCKADE FENCE
	COITOURS
	TOP BOTTOM OF CURB
	SPOT ELEVATION
	CONCRETE
	GUY WIRE

T-MOBILE SITE NUMBER:
CTNH805A

APT FILING NUMBER:
CT-2551-400

Mobile

35 GRIFFIN ROAD
BLOOMFIELD, CT 06002
OFFICE: (860)-892-7100

ALL-POINTS TECHNOLOGY CORPORATION, P.C.
3 SADDLEBROOK DRIVE
MILLINGWORTH, CT 06419
PHONE: (860)-463-1937
FAX: (860)-463-4932

PERMITTING DOCUMENTS	
AMTRAK GUILFORD MOOSE HILL ROAD GUILFORD, CT 06437	
DESIGN TYPE: RAW LAND	
REVISIONS:	
REV. 1:	12/22/09, FOR REVIEW, SMC
REV. 2:	
REV. 3:	
REV. 4:	

SITE PLAN	
APT FILING NUMBER: CT-2551-400	SCALE: AS NOTED
APT DRAWING NUMBER: CTNH805A	DATE: 12/22/09
DRAWN BY: RCB	
CHECKED BY: SMC	
SHEET NUMBER:	
SP-1	

NOTE: XX TREES WILL BE REMOVED IN CONSTRUCTING THE FACILITY.

THIS DOCUMENT IS THE CREATION, DESIGN PROPERTY AND COPYRIGHTED WORK OF T-MOBILE NORTHWEST, LLC. ANY DUPLICATION OR USE WITHOUT EXPRESS WRITTEN CONSENT IS STRICTLY PROHIBITED. DUPLICATION AND USE BY GOVERNMENT AGENCIES FOR THE PURPOSES OF CONDUCTING THEIR LAWFULLY AUTHORIZED REGULATORY AND ADMINISTRATIVE FUNCTIONS IS NOT PROHIBITED BY THIS NOTICE.

SOIL SCIENCE AND ENVIRONMENTAL SERVICES, INC.

Soil Science • Ecological Studies • Hazardous Waste Assessments • Project Planning • Soil & Water Testing

KENNETH C. STEVENS, Jr.
President

December 18, 2009

ATTN: Scott M. Chasse, P.E.
All Points Technology Corporation, P.C.
3 Saddlebrook Drive
Killingworth, CT 06419

Re: Coastal Consistency Review
T-Mobile Site CTNH805A, Moose Hill Road, Guilford, CT
SS&ES Job No. 2009-201-CT-GUI-1

Dear Mr. Chasse:

Soil Science and Environmental Services, Inc. (SS&ES) conducted a site inspection at the subject property on November 17, 2009. Thomas W. Pietras, SS&ES Professional Wetland and Soil Scientist, conducted the investigation. Several acres in the southwestern portion of the property were examined to determine if there are any wetlands, watercourses or coastal resources either on the study site or in close proximity. Additionally, SS&ES reviewed the Town of Guilford GIS files to gather additional information about the property.

The subject property, labeled as Parcel 066064 on the Town of Guilford GIS Map, is located north of Amtrak Railroad and east of Moose Hill Road (Figure 1). The property is mainly wooded and also contains small areas of old fields. The property is accessed from Moose Hill Road by a gravel driveway that is located between the railroad property and the residence at 83 Moose Hill Road. It is proposed to construct a wireless communications facility in the southwestern portion of the property. The facility will be located in the northern portion of a field. The proposed 50'x60' (300 sq ft) lease area will have a 50'x50' (2,500 sq ft) fenced compound area. Within the fencing there will be a 140 foot monopole, 200 sq ft concrete slab with cabinets, transformer and utilities. The lease area will be able to support three additional pad sites for future carriers. Utility poles are proposed to be installed along the driveway to provide electric and telephone service to the facility from Moose Hill Road.

It is proposed to make improvements to the gravel driveway. The driveway servicing the facility will have a 12 foot width. It will be necessary to conduct some minor grading along the portions of the existing driveway. Additional gravel is proposed to be added and the culvert at the stream crossing will be extended. Sediment and erosion controls will be installed to prevent erosion and sedimentation from impacting the wetlands and stream. A more detailed construction plan for the driveway and culvert will be prepared in the future. This plan will also contain sediment and erosion controls.

The Coastal Resource Map in the Town of Guilford Natural Resources Inventory Report was reviewed. According to the map, the nearest tidal wetlands to the proposed facility and access driveway lie approximately 1000 feet to the south on the southern side of Route 146.

On 11/17/09 SS&ES identified Inland Wetlands and Watercourses in the southwestern portion of the property. The wetland boundaries were delineated with consecutively numbered, blue survey tapes. The wetlands consist of poorly drained and very poorly drained, glacial till soils. The wetlands contain a mix of wet meadow, sapling/shrub swamp and forested swamp. A stream flows in a southerly direction through the wetlands. The stream flows under the existing gravel driveway within an 18 inch rcp. The stream flows onto the Amtrak property and passes into a culvert that extends under the railroad tracks. Drainage from the stream empties into a large wetland that is located further to the east of the facility and eventually into Long Island Sound. Additionally, a ditched drainage swale is located to the south of the driveway on the Amtrak Property. The swale receives drainage from a culvert on the east side of Moose Hill Road. Drainage flows through the swale in an easterly direction and discharges into the stream.

The only proposed work that will impact wetlands or watercourses is to extend the existing culvert under the driveway. The present culvert is too short in length and it is necessary to extend it by about 6 feet. This would result in approximately 50 sq ft of disturbance to the wetlands and watercourse.

The subject property lies within the Coastal Area (as defined in Section 22a-94 of the Connecticut Coastal Management Act (CCMA)). According to the Act, the lands of all Connecticut towns bordering on Long Island Sound lie within the Coastal Area. Based on a review of the Town of Guilford GIS Maps, the eastern portion of the gravel driveway and some of or the entire proposed facility lie within the Coastal Boundary (as defined in Section 22a-94 of the CCMA). The nearest Tidal Wetland is approximately 1000 feet to the south of the proposed facility. According to the Town of Guilford, FEMA Flood Insurance Rate Map, the gravel driveway and proposed wireless communications facility are outside of both the 100 year flood plain and 500 year flood plain.

ASSESSMENT OF POTENTIAL ADVERSE IMPACTS ON COASTAL RESOURCES

The CT DEP Coastal Consistency Review Form applies to proposed projects located within the Coastal Area. Applicants for proposed projects within the Coastal Area are requested to provide information concerning any "adverse impacts to coastal resources" that are listed in Section 22a-93 (15) of the CCMA. The following responses are provide for each of the eight potential adverse impacts to coastal resources:

- (A) Degrading water quality through the significant introduction into either coastal waters or groundwater supplies of suspended solids, nutrients, toxins, heavy metals or pathogens, or through the significant alteration of temperature, pH, dissolved oxygen or salinity.

Provided that proper sediment and erosion controls are established and maintained during the construction project, the proposed project will not result in any degradation of water quality. The facility will be constructed in a minimally sized area (2,500 sq ft fenced compound and will have minimal impervious coverage.

- (B) Degrading existing circulation patterns of coastal waters through the significant alteration of patterns or tidal exchange or flushing rates, freshwater input, or existing basin characteristics and channel contours.

The proposed facility is minimally sized and located more than 1,000 feet from the nearest coastal waters, and thus it will not result in any alteration to the existing circulation patterns of coastal waters.

(C) Degrading natural erosion patterns through the significant alteration of littoral transport sediments in terms of deposition or source reduction.

The proposed project is located in an upland that is more than 1,000 feet away from the shoreline and it will not result in any alteration of littoral transport sediments.

(D) Degrading natural or existing drainage patterns through the significant alteration of groundwater flow and recharge and volume of runoff.

The proposed facility is minimally sized and there will be no measurable increase of stormwater runoff. The project will not result in degrading natural or existing drainage.

(E) Increasing the hazard of coastal flooding through significant alteration of shoreline configurations or bathymetry, particularly within high velocity flood zones.

The proposed project will not result in alteration of shoreline configurations or bathymetry. The southwestern portion of the property is located outside of both the 100 year and 500 year floodplain.

(F) Degrading visual quality through significant alteration of the natural features of vistas and view points.

(G) Degrading or destroying essential wildlife, finfish or shellfish habitat through significant alteration of the composition, migration patterns, distribution, breeding or other population characteristics of the natural species or significant alteration of the natural components of the habitat.

There will be no impacts to finfish or shellfish caused by the proposed facility. The facility will be constructed in an old grassed field and there will be minimal cutting of trees. It is unlikely that the construction of the proposed facility will result in degrading or destroying essential wildlife habitat.

(H) Degrading tidal wetlands, beaches and dunes, rocky shorefronts, and bluffs and escarpments through significant alteration of their natural characteristics or functions.

The proposed facility will not alter any tidal wetlands, beaches and dunes, rocky shorefronts, and bluffs and escarpments since none exist either on or in close proximity to the proposed project area. The nearest tidal wetlands are located approximately 1000 feet to the south of the access driveway and proposed wireless communications facility.

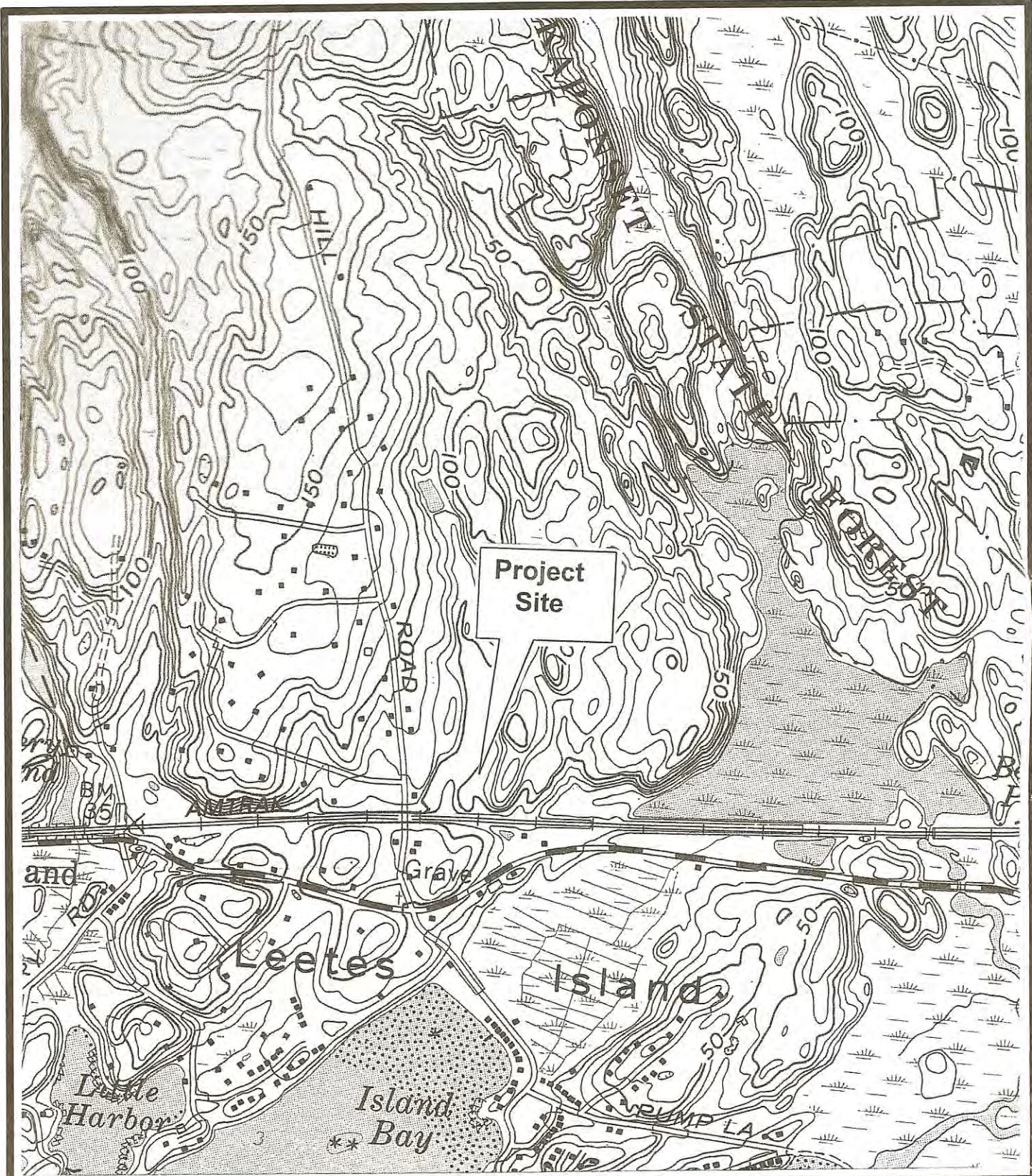
In conclusion, SS&ES conducted a coastal consistency review to assess whether any coastal resources would be impacted as a result of the proposed project. Based on our site inspection and review of both the CT DEP Coastal Resource Map and the Town of Guilford maps, the proposed project should not adversely impact any coastal resources and appears consistent with the State of Connecticut Coastal Management Act policies and goals.

Respectfully submitted,

SOIL SCIENCE AND ENVIRONMENTAL SERVICES, INC.

A handwritten signature in blue ink that reads "Thomas W. Pietras". The signature is written in a cursive, flowing style.

Thomas W. Pietras
Professional Wetland and Soil Scientist



SOIL SCIENCE AND ENVIRONMENTAL SERVICES, INC.

Project Location Map for
Proposed Wireless Facility
Moose Hill Road
Guilford, Connecticut

Scale: 1"=500'

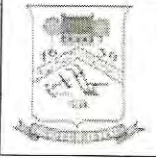
Dec. 2009

Figure 1

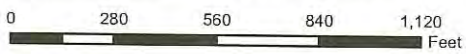
Town of Guilford, Connecticut - Assessment Parcel Map

Parcel: 066064

Address: MOOSE HILL RD



Approximate Scale: 1 inch equals 500 feet



Map Produced:
December 2006

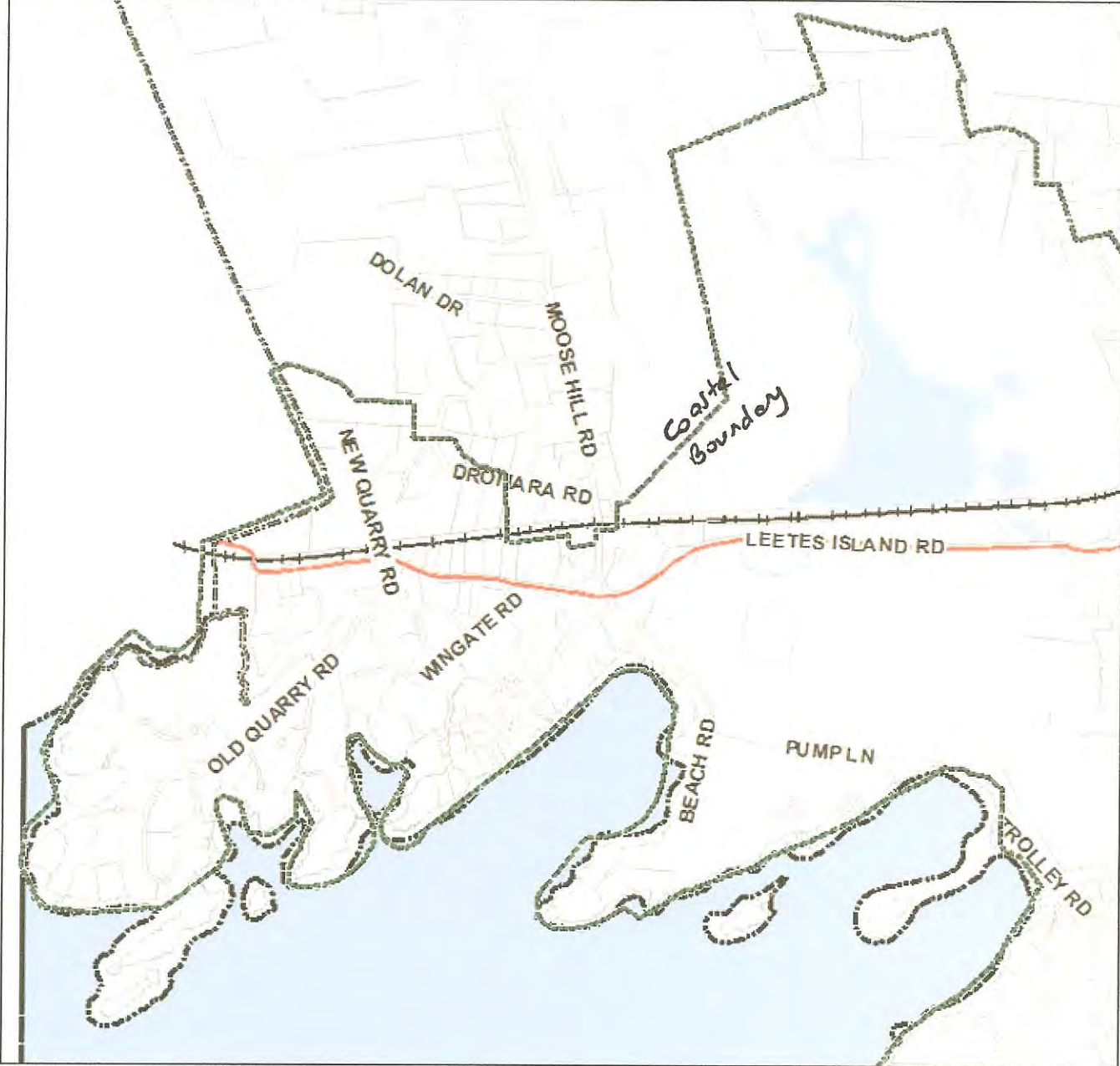
Disclaimer: This map is for informational purposes only All information is subject to verification by any user. The Town of Guilford and its mapping contractors assume no legal responsibility for the information contained herein.

Town of Guilford

Geographic Information System (GIS)



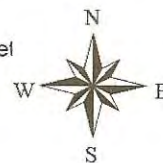
Date Printed: 11/17/2009



MAP DISCLAIMER - NOTICE OF LIABILITY

This map is for assessment purposes only. It is not for legal description or conveyances. All information is subject to verification by any user. The Town of Guilford and its mapping contractors assume no legal responsibility for the information contained herein.

Approximate Scale: 1 inch = 1500 feet

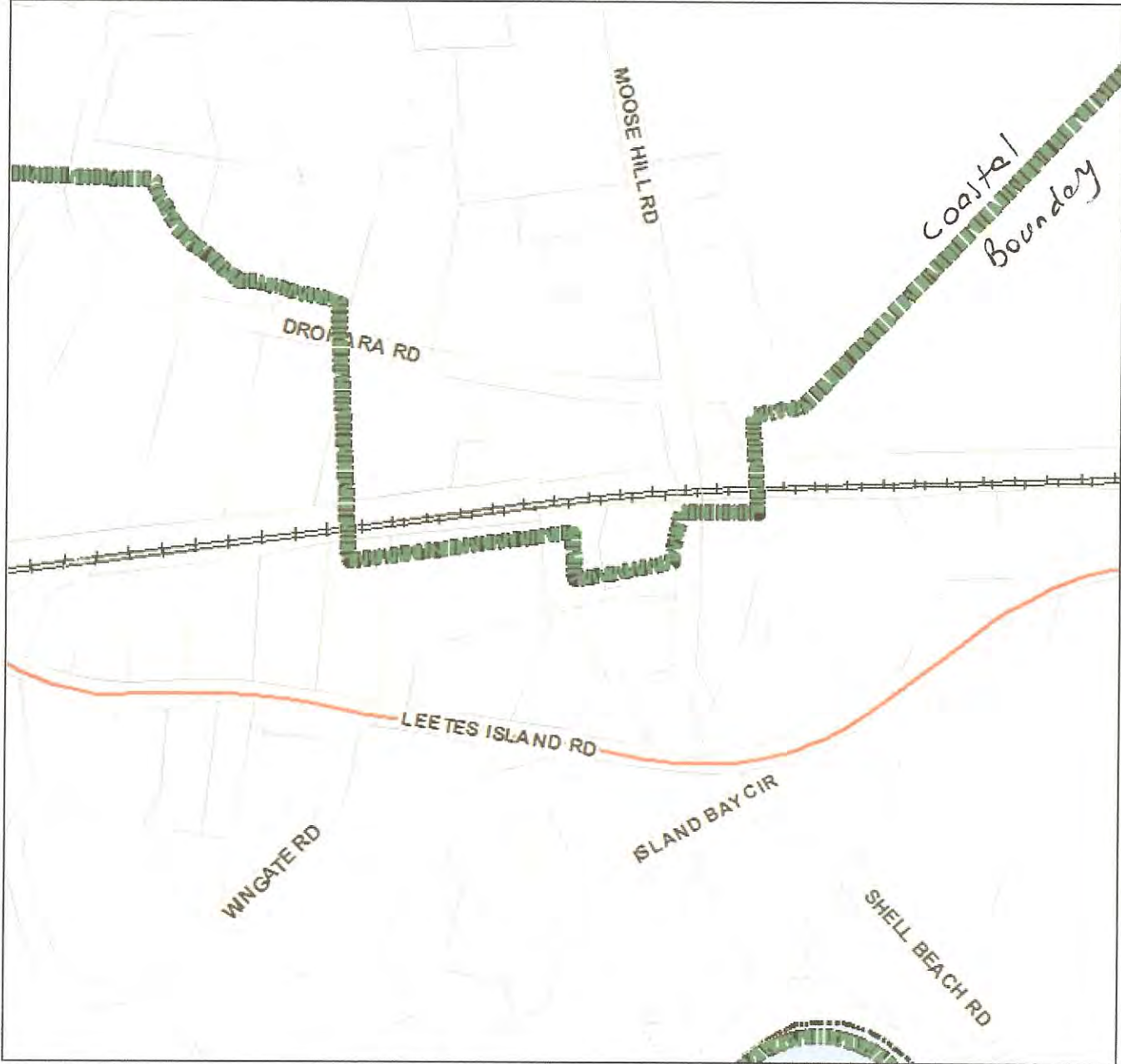


Town of Guilford

Geographic Information System (GIS)



Date Printed: 11/17/2009



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Approximate Scale: 1 inch = 400 feet

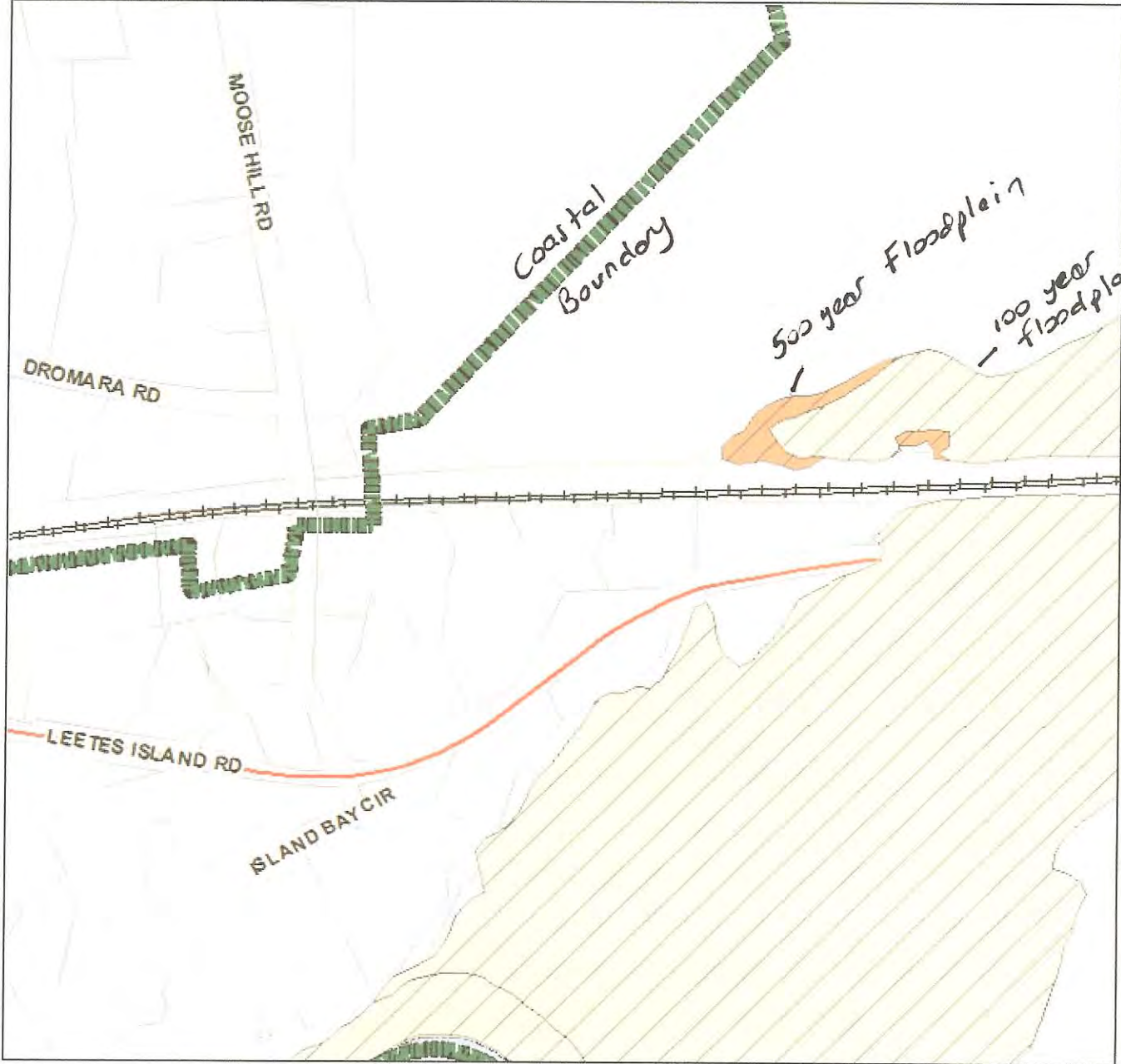


Town of Guilford

Geographic Information System (GIS)



Date Printed: 11/17/2009

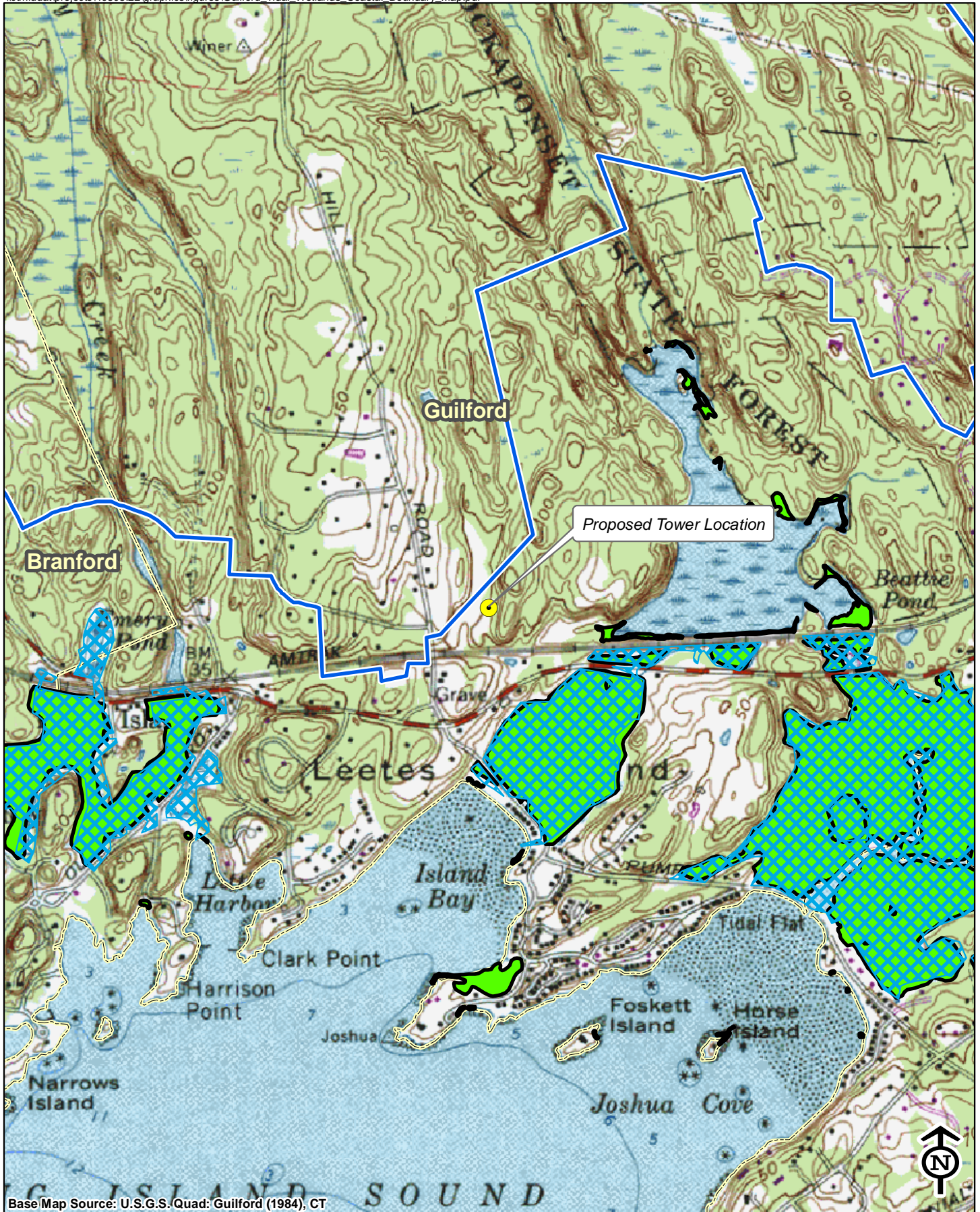


MAP DISCLAIMER - NOTICE OF LIABILITY

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Approximate Scale: 1 inch = 400 feet

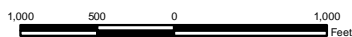




Base Map Source: U.S.G.S. Quad: Guilford (1984), CT

Legend

- Proposed Tower Location
- Coastal Boundary Line
- X Tidal Wetland 1970s
- Tidal Wetland 1990s
- Town Line



Vanasse Hangen Brustlin, Inc.

**Tidal Wetlands & Coastal Boundary Map
 Proposed T-Mobile Facility
 Guilford South, CT
 Moose Hill Road
 Guilford, Connecticut**



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Langer, Jesse A.

From: Langer, Jesse A.
Sent: Monday, December 27, 2010 2:53 PM
To: 'susan.chandler@ct.gov'
Subject: Proposed Telecommunications Facility at Moose Hill Rd., Guilford

Susan:

Good afternoon and happy holidays.

As you may recall, I work with Julie Kohler at Cohen and Wolf, P.C. and we represent T-Mobile. I just wanted you to know that we will respond to your question regarding flush mounts or other stealth options for the proposed facility. It may take a few days for us to respond – perhaps some time next week – given the holidays.

If you have any questions, feel free to give me a call.

Regards,

Jesse

Jesse A. Langer
Cohen and Wolf, P.C.
1115 Broad Street
Bridgeport, CT 06604
Tel: (203) 368-0211
Fax: (203) 337-5593
jlanger@cohenandwolf.com

This message is being sent by or on behalf of a lawyer. It is intended for the exclusive use of the individual or entity that is the named addressee and may contain information that is privileged or confidential or otherwise legally exempt from disclosure. If you are not the named addressee or an employee or agent responsible for delivering this message to the named addressee, you are not authorized to read, print, retain, copy or disseminate this message or any part of it. If you have received this message in error, please notify us immediately by e-mail, or by telephone (203-368-0211), discard any paper copies and delete all electronic files of the message.

JESSE A. LANGER

PLEASE REPLY TO: Bridgeport
E-Mail Address: jlanger@cohenandwolf.com

January 27, 2011

VIA ELECTRONIC MAIL and REGULAR MAIL

Ms. Susan R. Chandler
Historical Architect
State Historic Preservation Office
Connecticut Commission on Culture & Tourism
One Constitution Plaza, Second Floor
Hartford, CT 06103

**Re: Proposed Development of a Telecommunications Facilities
Moose Hill Road, Guilford, Connecticut**

Dear Ms. Chandler:

I write in response to your inquiry about the possibility of stealth configurations for the proposed telecommunications facility at Moose Hill Road, Guilford, Connecticut ("Facility"). T-Mobile has performed a preliminary assessment of the feasibility of stealth options for the Facility. This assessment focused on the potential visual impact along Route 146.

T-Mobile has proposed a height of 140 above grade level ("AGL") for the Facility. T-Mobile may be able to reduce the height of the Facility should the Connecticut Siting Council ("Council") approve the telecommunications facility, proposed by Cellco Partnership d.b.a. Verizon Wireless ("Verizon"), at 723 Leetes Island Road, Branford, Connecticut ("Verizon Facility"). With such an approval, T-Mobile may be able to reduce the height of the Facility to approximately 110 feet. This estimate is based upon the Council approving the Verizon Facility as proposed with T-Mobile situated at the required height on that facility.

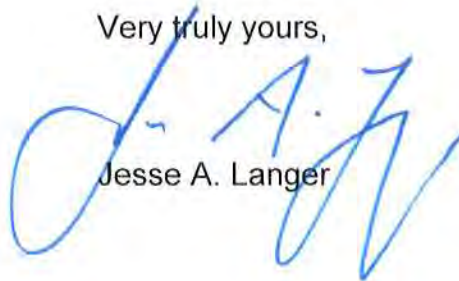
Regardless of the height of the proposed Facility, T-Mobile has determined that flush mounts might serve as a feasible alternative configuration for the Facility. I have attached some photo-simulations for your review. Such a configuration, however, might limit co-location as carriers, such as T-Mobile, may require multiple positions on the Facility. This limitation might require the Facility to be higher than the estimated 110 feet AGL.

Ms. Susan R. Chandler
Historical Architect
State Historic Preservation Office
Connecticut Commission on Culture & Tourism
January 27, 2011
Page 2

T-Mobile has also determined that a mono-pine would not serve as a feasible alternative. Such a configuration would be more conspicuous than a traditional monopole configuration.

We welcome your comments. If you have any questions, please do not hesitate to give me a call.

Very truly yours,



Jesse A. Langer

JAL:dIm
Enclosures



Photosim for conceptual purposes only - actual antenna & equipment locations to be determined based on final engineering design



VIEW 5 - EXISTING VIEW FROM
LEETES ISLAND ROAD LOOKING WEST
TOWARDS SITE

T-MOBILE NORTHEAST LLC

35 GRIFFIN ROAD
BLOOMFIELD, CT 06002

DATE: JAN 2011

SITE: AMTRAK
GUILFORD



Photosim for conceptual purposes only - actual antenna & equipment locations to be determined based on final engineering design



VIEW 5 - PROPOSED VIEW FROM
LEETES ISLAND ROAD LOOKING WEST
TOWARDS SITE
(110' FLUSH MOUNT OPTION)

T-MOBILE NORTHEAST LLC

35 GRIFFIN ROAD
BLOOMFIELD, CT 06002

DATE: JAN 2011

SITE: AMTRAK
GUILFORD



Photosim for conceptual purposes only - actual antenna & equipment locations to be determined based on final engineering design



VIEW 5 - PROPOSED VIEW FROM
LEETES ISLAND ROAD LOOKING WEST
TOWARDS SITE
(140' FLUSH MOUNT OPTION)

T-MOBILE NORTHEAST LLC

35 GRIFFIN ROAD
BLOOMFIELD, CT 06002

DATE: JAN 2011

SITE: AMTRAK
GUILFORD



Photosim for conceptual purposes only - actual antenna & equipment locations to be determined based on final engineering design



VIEW 14 - EXISTING VIEW FROM
LEETES ISLAND ROAD LOOKING
NORTHEAST TOWARDS SITE

T-MOBILE NORTHEAST LLC

35 GRIFFIN ROAD
BLOOMFIELD, CT 06002

DATE: JAN 2011

SITE: AMTRAK
GUILFORD



Photosim for conceptual purposes only - actual antenna & equipment locations to be determined based on final engineering design



VIEW 14 - PROPOSED VIEW FROM
LEETES ISLAND ROAD LOOKING
NORTHEAST TOWARDS SITE
SEASONAL VISIBILITY
(110' FLUSH MOUNT OPTION)

T-MOBILE NORTHEAST LLC

35 GRIFFIN ROAD
BLOOMFIELD, CT 06002

DATE: JAN 2011

SITE: AMTRAK
GUILFORD



Photosim for conceptual purposes only - actual antenna & equipment locations to be determined based on final engineering design



VIEW 14 - PROPOSED VIEW FROM
LEETES ISLAND ROAD LOOKING
NORTHEAST TOWARDS SITE
SEASONAL VISIBILITY
(140' FLUSH MOUNT OPTION)

T-MOBILE NORTHEAST LLC

35 GRIFFIN ROAD
BLOOMFIELD, CT 06002

DATE: JAN 2011

SITE: AMTRAK
GUILFORD



Photosim for conceptual purposes only - actual antenna & equipment locations to be determined based on final engineering design



VIEW 15 - EXISTING VIEW FROM
LEETES ISLAND ROAD LOOKING WEST
TOWARDS SITE

T-MOBILE NORTHEAST LLC

35 GRIFFIN ROAD
BLOOMFIELD, CT 06002

DATE: JAN 2011

SITE: AMTRAK
GUILFORD



Photosim for conceptual purposes only - actual antenna & equipment locations to be determined based on final engineering design



VIEW 15 - PROPOSED VIEW FROM
LEETES ISLAND ROAD LOOKING WEST
TOWARDS SITE
SEASONAL VISIBILITY
(110' FLUSH MOUNT OPTION)

T-MOBILE NORTHEAST LLC

35 GRIFFIN ROAD
BLOOMFIELD, CT 06002

DATE: JAN 2011

SITE: AMTRAK
GUILFORD



Photosim for conceptual purposes only - actual antenna & equipment locations to be determined based on final engineering design



VIEW 15 - PROPOSED VIEW FROM
LEETES ISLAND ROAD LOOKING WEST
TOWARDS SITE
SEASONAL VISIBILITY
(140' FLUSH MOUNT OPTION)

T-MOBILE NORTHEAST LLC

35 GRIFFIN ROAD
BLOOMFIELD, CT 06002

DATE: JAN 2011

SITE: AMTRAK
GUILFORD



Photosim for conceptual purposes only - actual antenna & equipment locations to be determined based on final engineering design



VIEW 16 - EXISTING VIEW FROM
LEETES ISLAND ROAD LOOKING WEST
TOWARDS SITE
(110' TOWER NON-VISIBLE)

T-MOBILE NORTHEAST LLC

35 GRIFFIN ROAD
BLOOMFIELD, CT 06002

DATE: JAN 2011

SITE: AMTRAK
GUILFORD



Photosim for conceptual purposes only - actual antenna & equipment locations to be determined based on final engineering design



VIEW 16 - PROPOSED VIEW FROM
LEETES ISLAND ROAD LOOKING WEST
TOWARDS SITE
SEASONAL VISIBILITY
(140' FLUSH MOUNT OPTION)

T-MOBILE NORTHEAST LLC

35 GRIFFIN ROAD
BLOOMFIELD, CT 06002

DATE: JAN 2011

SITE: AMTRAK
GUILFORD

Langer, Jesse A.

From: Chandler, Susan <Susan.Chandler@ct.gov>
Sent: Tuesday, February 15, 2011 7:48 AM
To: Langer, Jesse A.
Subject: RE: Proposed Telecommunications Facility at Moose Hill Rd., Guilford

Hi Jesse –

Thanks for your messages. Sorry to be slow in replying to your submission. 110' flush seems a sensitive approach. We appreciate the effort that was made to achieve this. 140' obviously has a much greater visual impact on the historic district. I can get a letter out to you tomorrow, if the Deputy Historic Preservation Officer concurs.

Best, Susan

Susan R. Chandler
Historical Architect

State Historic Preservation Office
Connecticut Commission on Culture & Tourism
One Constitution Plaza, Second Floor
Hartford, CT 06103

860-256-2800 (main)
860-256-2764 (direct)
860-256-2763 (fax)

www.cultureandtourism.org

From: Langer, Jesse A. [mailto:jlanger@cohenandwolf.com]
Sent: Monday, February 14, 2011 12:05 PM
To: Chandler, Susan
Subject: RE: Proposed Telecommunications Facility at Moose Hill Rd., Guilford

Susan:

Good afternoon.

I just left you a voicemail message following up my letter of January 27, 2011. I thought I would send you an email as well. Please give me a call at your earliest convenience.

Regards,

Jesse

From: Langer, Jesse A.
Sent: Thursday, January 27, 2011 1:49 PM
To: 'susan.chandler@ct.gov'
Subject: Proposed Telecommunications Facility at Moose Hill Rd., Guilford

Susan:

Good afternoon. I have attached a letter and some photo-simulations regarding the above-captioned site. I hope this is responsive to your inquiry about possible stealth options. Please let me know if you have any questions. Also, please let me know if you have any comments regarding this subject matter.

Regards,

Jesse

Jesse A. Langer
Cohen and Wolf, P.C.
1115 Broad Street
Bridgeport, CT 06604
Tel: (203) 368-0211
Fax: (203) 337-5593
jlanger@cohenandwolf.com

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Langer, Jesse A.

From: Langer, Jesse A.
Sent: Tuesday, February 22, 2011 11:52 AM
To: 'Chandler, Susan'
Subject: RE: Proposed Telecommunications Facility at Moose Hill Rd., Guilford

Thank you, Susan.

From: Chandler, Susan [mailto:Susan.Chandler@ct.gov]
Sent: Tuesday, February 22, 2011 9:55 AM
To: Langer, Jesse A.
Subject: RE: Proposed Telecommunications Facility at Moose Hill Rd., Guilford

Hi Jesse –

It went out last week, but of course there was no mail yesterday...

Best, Susan

Susan R. Chandler
Historical Architect

State Historic Preservation Office
Connecticut Commission on Culture & Tourism
One Constitution Plaza, Second Floor
Hartford, CT 06103

860-256-2800 (main)
860-256-2764 (direct)
860-256-2763 (fax)

www.cultureandtourism.org

From: Langer, Jesse A. [mailto:jlanger@cohenandwolf.com]
Sent: Tuesday, February 22, 2011 9:26 AM
To: Chandler, Susan
Subject: RE: Proposed Telecommunications Facility at Moose Hill Rd., Guilford

Susan:

Good morning.

I am writing just to inquire whether you had the opportunity to prepare the letter regarding the proposed facility at Moose Hill Road in Guilford. Kindly send the letter to my attention.

I'm available if you have any questions.

Thank you,

Jesse

From: Chandler, Susan [mailto:Susan.Chandler@ct.gov]
Sent: Tuesday, February 15, 2011 7:48 AM
To: Langer, Jesse A.
Subject: RE: Proposed Telecommunications Facility at Moose Hill Rd., Guilford

Hi Jesse –

Thanks for your messages. Sorry to be slow in replying to your submission. 110' flush seems a sensitive approach. We appreciate the effort that was made to achieve this. 140' obviously has a much greater visual impact on the historic district. I can get a letter out to you tomorrow, if the Deputy Historic Preservation Officer concurs.

Best, Susan

Susan R. Chandler
Historical Architect

State Historic Preservation Office
Connecticut Commission on Culture & Tourism
One Constitution Plaza, Second Floor
Hartford, CT 06103

860-256-2800 (main)
860-256-2764 (direct)
860-256-2763 (fax)

www.cultureandtourism.org

From: Langer, Jesse A. [mailto:jlanger@cohenandwolf.com]
Sent: Monday, February 14, 2011 12:05 PM
To: Chandler, Susan
Subject: RE: Proposed Telecommunications Facility at Moose Hill Rd., Guilford

Susan:

Good afternoon.

I just left you a voicemail message following up my letter of January 27, 2011. I thought I would send you an email as well. Please give me a call at your earliest convenience.

Regards,

Jesse

From: Langer, Jesse A.
Sent: Thursday, January 27, 2011 1:49 PM
To: 'susan.chandler@ct.gov'
Subject: Proposed Telecommunications Facility at Moose Hill Rd., Guilford

Susan:

Good afternoon. I have attached a letter and some photo-simulations regarding the above-captioned site. I hope this is responsive to your inquiry about possible stealth options. Please let me know if you have any questions. Also, please let me know if you have any comments regarding this subject matter.

Regards,

Jesse

Jesse A. Langer
Cohen and Wolf, P.C.
1115 Broad Street
Bridgeport, CT 06604
Tel: (203) 368-0211
Fax: (203) 337-5593
jlanger@cohenandwolf.com

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Connecticut Commission on Culture & Tourism

February 16, 2011

Historic Preservation
and Museum Division

Mr. Jesse A. Langer
Cohen and Wolf
PO Box 1821
Bridgeport, CT 06601-1821

One Constitution Plaza
Second Floor
Hartford, Connecticut
06103

860.256.2800
860.256.2763 (f)

Subject: Proposed Telecommunications Facility
Moose Hill Road
Guilford, Connecticut
T-Mobile

Dear Mr. Langer:

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

This office has determined that the undertakings will have no adverse effect on the Route 146 Historic District, which is listed on the National Register of Historic Places, with the following conditions:

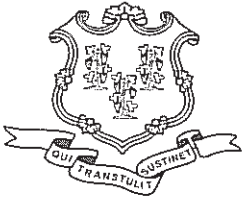
1. the tower will be painted medium gray-brown, to blend with the bark color of adjacent trees, with flush-mounted antennae and will not exceed 110', and
2. if not in use for six consecutive months, the antennae and equipment shall be removed by the telecommunications facility owner. This removal shall occur within 90 days of the end of such six-month period. Upon removal, the property shall be restored by the facility owner to its historically appropriate appearance and materials.

The State Historic Preservation Office appreciates the opportunity to provide you, T-Mobile, and EBI with this evaluation. Please contact Susan Chandler, Historical Architect, should you have additional questions concerning this matter.

Sincerely,

David Bahlman
Division Director and Deputy
State Historic Preservation Officer

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STATE OF CONNECTICUT
DEPARTMENT OF ENVIRONMENTAL PROTECTION



October 26, 2010

Ms. Trevelyn Potter, Program Manager
EBI Consulting
21 B Street
Burlington, MA 01803

re: proposed telecommunication monopole (Amtrak-Guilford) for T-Mobile off Moose Hill Road, Guilford

Dear Ms. Potter:

Your Eastern Box Turtle survey report and cover letter were redirected to me from the Hartford Office on 10/14/10. Although the target species was not detected, the surveyor indicated that suitable habitat is present. The surveyor recommends, and the DEP Wildlife Division concurs, that the work should be done during the turtle dormant period November 1 to April 1.

Additionally, the DEP Wildlife Division recommends that if work must be done during these turtle's active period (April 1 to November 1) that the following precautionary measures be implemented to protect the turtles:

1. the construction crew be apprised of the species description and possible presence and that the area be searched for turtles each day prior to construction.
2. any turtles encountered during construction be moved out of the way.
3. all precautions should be taken to avoid degradation to wetland habitats including any wet meadows and seasonal pools
4. that work conducted in these habitats during the early morning and evening hours should occur with special care not to harm basking or foraging individuals.
5. that no heavy machinery or vehicles be parked in any habitat.

Standard protocols for the protection of wetlands should be followed and maintained during the course of the project. Additionally, all silt fencing should be removed after soils are stable so that reptile and amphibian movement between uplands and wetlands is not restricted.

Please be advised that the Wildlife Division has not made a field inspection of the project nor have we seen detailed timetables for work to be done. Consultation with the Wildlife Division should not be substituted for site-specific surveys that may be required for environmental assessments. The time of year when this work will take place will affect these species if they are present on the site when the work is scheduled. Please be advised that should state permits be required or should state involvement occur in some other fashion, specific restrictions or conditions relating to the species discussed above may apply. In this situation, additional evaluation of the proposal by the DEP Wildlife Division should be requested. If the proposed project has not been initiated within 12 months of this review, contact the NDDDB for an updated review. If you have any additional questions, please feel free to contact me at Julie.Victoria@ct.gov, please reference the NDDDB # at the bottom of this letter when you e-mail or write. Thank you for the opportunity to comment.

Sincerely,

Julie Victoria
Wildlife Biologist
Franklin Swamp Wildlife Management Area
391 Route 32
N. Franklin, CT 06254

cc: NDDDB – 17365

October 1, 2010

Connecticut Department of Environmental Protection
Bureau of Natural Resources
Division of Wildlife
79 Elm Street, 6th Floor
Hartford, CT 06106
Attn: Julie Victoria

Subject: Section 7 Review: Construction of a 140-foot Telecommunications Monopole
Amtrak-Guilford/CTNH805A
Off Moose Hill Road
Guilford, CT
EBI Project #61096865

Dear Ms. Victoria:

EBI CONSULTING (EBI) is preparing an environmental review on behalf of *T-Mobile Northeast, LLC, a Delaware limited liability company, as successor-in-interest to Omnipoint Communications, Inc. a Delaware Corporation (hereinafter T-Mobile)* for the project noted above (herein, the Subject Property) as part of its permit process and regulatory review by the Federal Communications Commission (FCC). The review is focused on compliance with the Section 7 of the Endangered Species Act and environmental concerns specified by the FCC in 47 CFR 1.1307.

In your response dated January 28, 2010 you indicated that the Wildlife Division recommends that a herpetologist familiar with the habitat requirements of the Eastern Box Turtle conduct surveys during the species' active season.

Attached please find an Eastern Box Turtle survey for the proposed tower location

On behalf of *T-Mobile*, I would appreciate your additional comments on this proposed telecommunications installation in a letter directed to my attention at the address noted above.

Sincerely,



Ms. Trevelyn Potter
Program Manager
(617) 715-1832
tpotter@ebiconsulting.com

Appendix A – Response dated January 28, 2010
Appendix B – Eastern Box Turtle Survey

HERPETOLOGICAL SURVEYS, LLC.

16 Fox Hill Drive ▪ Clinton, Connecticut 06413
203.675.1199 cell ▪ herpn@sbcglobal.net

July 5, 2010

EBI Consulting
Attn: Ms. Ashley Bonavenia
Four A Street
Burlington, MA 01803

**RE: Box Turtle (*Terrapene c. carolina*) Survey
Moose Hill Road, Guilford, CT**

The following information was compiled and is now complete as of Wednesday, June 30th, 2010. Michael Klemens book Amphibians and Reptiles of Connecticut and Adjacent Regions was used as a reference for this survey as well as my 25 years of field experience finding Box Turtles in the wild.

“Eastern Box Turtles require old field and deciduous forest habitats, which can include power lines and logged woodlands. They are often found near small streams and ponds, the adults are completely terrestrial but the young may be semi aquatic, and hibernate on land by digging down in the soil from October to April. They have an extremely small home range and can usually be found in the same area year after year.”¹

I visited this site twenty-four times between March 28th, 2010 and June 29th, 2010. I also enlisted the help of Arick Barsch and he surveyed the property 7 times. I surveyed this area during early emergence from hibernation through the peak nesting season for Eastern Box Turtles and no Box Turtles or signs of nesting were found. I concentrated my efforts on early mornings following rain events. Although no Box Turtles were found during any of my surveys, the DEP states that they have historic records of Eastern Box Turtles in the vicinity of this project site. Since surveying the property I agree that the surrounding area does look favorable for Box Turtles. The area that will be impacted consists of a field edge. A portion of this area is deciduous forest and the other is an over grown field. This property where the proposed tower will go encompasses approximately 150 acres. Again no box Turtles were found during this survey. I contacted a local Box Turtles expert (JH) in Guilford, he has been marking box

¹ State of CT Department of Environmental Protection

turtles for over 30 years in Guilford. In speaking with him, he said that he had marked some Box Turtles from Moose Hill Road but not on this property.

During the survey I found the wet meadow just to the West of the proposed site to be a breeding area for Spotted Salamanders (*Ambystoma maculatum*) and Wood Frogs (*Rana sylvatica*). I counted over seventy Spotted Salamander egg masses and 20 Wood Frog egg masses. Spring peepers were calling on the property as well. Green Frogs were found throughout the property. American toads (*Bufo americanus*). A few pieces of cover were laid out early during the survey and this cover produced Garter snakes (*Thamnophis sirtalis*) on a regular basis (almost every visit). Black Racers (*Coluber constrictor*) were also seen in the vicinity of the proposed site. There were several Spotted Turtles seen during this survey some were in a vernal pool and others were walking close to the stream. I would guesstimate at least four different Spotted Turtles were seen, these were not marked so there was no way of telling for sure if they were the same turtles. Four Spotted Turtles were seen in one day so we can conclude that there were at least four Spotted Turtles using the property. One turtle was photographed and measured and the location was recorded. Also one Wood Turtle was found during this survey and was measured and photographed. The location of this animal was also recorded. Wood Turtles (*Glyptemys insculpta*) are a Species of Special Concern in Connecticut. None of the turtles found during the survey were found very close to the proposed site to be impacted.

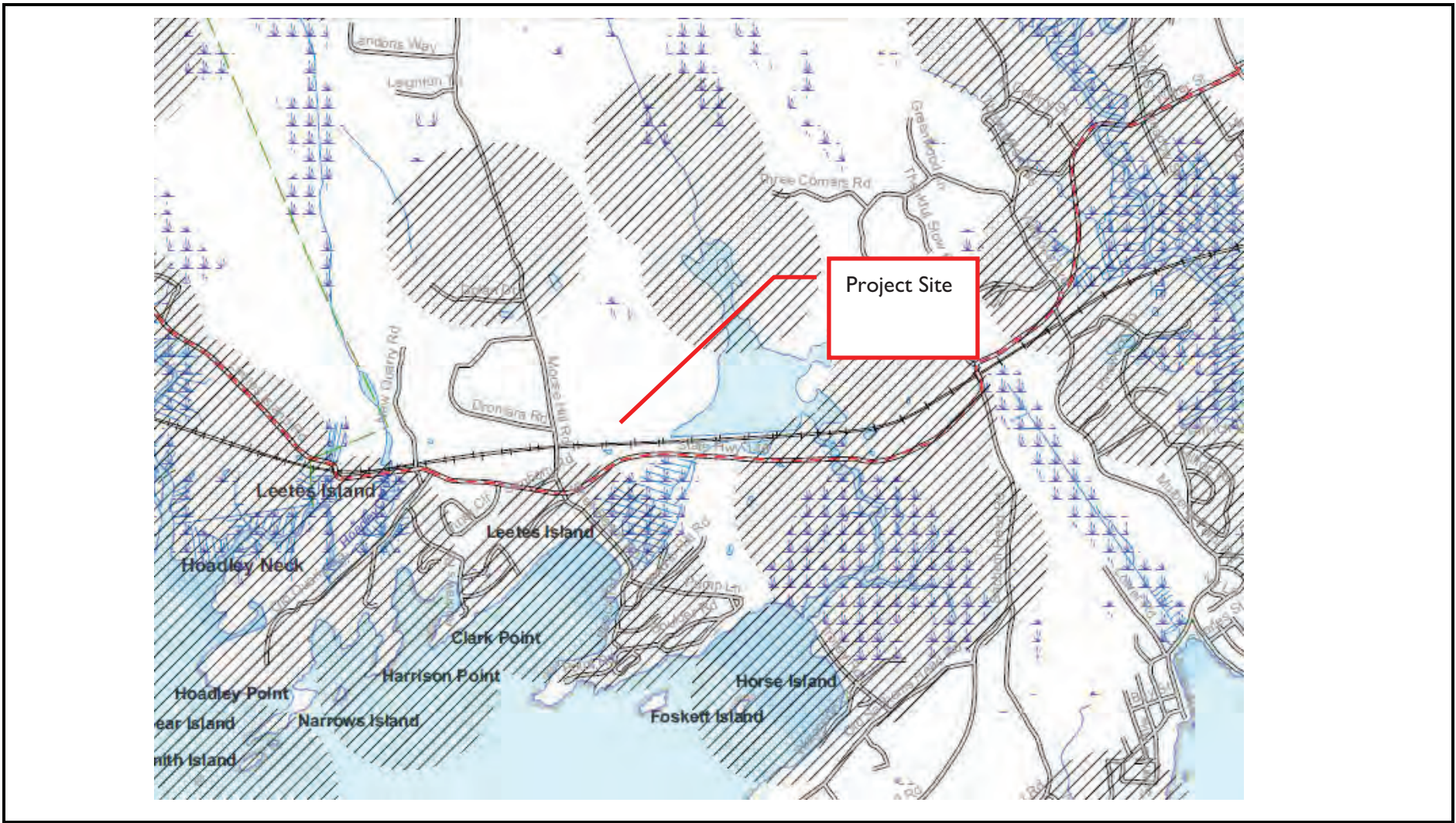
I suggest the following for moving forward with this project. Try to do the majority of excavating and construction during the off season when these animals are not active, October 1st through the end of February. If working during the active period is a must, the area to be impacted should be fenced off using proper silt fencing this will not only keep the soil contained but also help keep any turtles out of harms way.

Please contact me for any further information you may need.

Sincerely,

A handwritten signature in blue ink that reads "Charles H. Annicelli, III" with a stylized flourish at the end.

Charles H. Annicelli, III

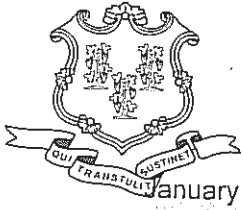


CT NDDB Map

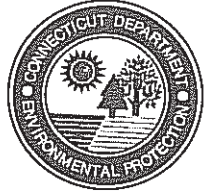
CTNH805A / Amtrak Guilford
Moose Hill Road
Guilford, Connecticut

EBI Project No.: 61096865





STATE OF CONNECTICUT
DEPARTMENT OF ENVIRONMENTAL PROTECTION



January 28, 2010

Ms. Ami Senechel-Anderson
EBI Consulting
21 B Street
Burlington, MA 01803

re: proposed telecommunication monopole (Amtrak-Guilford) for T-Mobile off Moose Hill Road, Guilford

Dear Ms. Senechel-Anderson:

Your request for information was forwarded to me on 1/21/10 by Dawn McKay of the Department of Environmental Protection's (DEP) Natural Diversity Database. Their records indicate that a historic record for endangered species: Black rail (*Laterallus jamaicensis*) and current records for two Species of Special Concern: Maritime sunflower borer moth (*Papaipema maritime*) and Eastern Box Turtle (*Terrapene carolina*) occurs in the vicinity of your project.

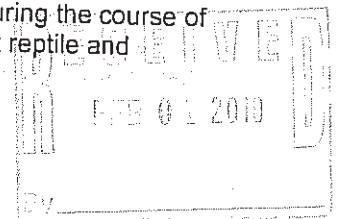
Maritime sunflower borer moths occur on the edges of salt marshes and are associated with the host plant *Heliantheous*. Black rails nest along inland tidal creeks and marshes, in salt marshes or salt hay meadows or along edges of sedges or marsh grass flats from May to August. It does not appear from information provided that either of these species will be impacted.

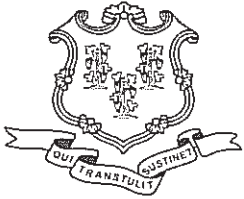
Eastern Box Turtles require old field and deciduous forest habitats, which can include power lines and logged woodlands. They are often found near small streams and ponds, the adults are completely terrestrial but the young may be semiaquatic, and hibernate on land by digging down in the soil from October to April. They have an extremely small home range and can usually be found in the same area year after year. This species is dormant from November 1 to April 1. It has been negatively impacted by the loss of suitable habitat.

If this work will negatively impact any Eastern Box Turtle habitat, the Wildlife Division recommends that a herpetologist familiar with the habitat requirements of this reptile conduct surveys during the species active season. A report summarizing the results of such surveys should include habitat descriptions, reptile species list and a statement/resume giving the herpetologist's qualifications. The DEP doesn't maintain a list of qualified herpetologists. The results of this investigation can be forwarded to the Wildlife Division and, after evaluation, recommendations for additional surveys, if any, will be made. The DEP Wildlife Division may recommend that if work must be done during these turtle's active period (April 1 to November 1) that the following precautionary measures be implemented to protect the turtles, you should work with a herpetologist to prepare a pre- and post construction plan:

1. the construction crew be apprised of the species description and possible presence and that the area be searched for turtles each day prior to construction.
2. any turtles encountered during construction be moved out of the way.
3. all precautions should be taken to avoid degradation to wetland habitats including any wet meadows and seasonal pools
4. that work conducted in these habitats during the early morning and evening hours should occur with special care not to harm basking or foraging individuals.
5. that no heavy machinery or vehicles be parked in any habitat.

Standard protocols for the protection of wetlands should be followed and maintained during the course of the project. Additionally, all silt fencing should be removed after soils are stable so that reptile and amphibian movement between uplands and wetlands is not restricted.





STATE OF CONNECTICUT
DEPARTMENT OF ENVIRONMENTAL PROTECTION



Bureau of Natural Resources
Division of Wildlife
79 Elm Street, 6th Floor
Hartford, CT 06106
Natural Diversity Data Base

January 15, 2010

Ms. Ami Senechal-Anderson
EBI Consulting
21 B Street
Burlington, MA 01803

re: Construction of a 140 Foot
Telecommunications Monopole (Amtrack-
Guilford) for T-Mobile Off Moose Hill
Road in Guilford, Connecticut

Dear Ms. Senechal-Anderson:

I have reviewed Natural Diversity Data Base maps and files regarding the area delineated on the map you provided for the proposed construction of a telecommunications monopole off Moose Hill Road in Guilford, Connecticut. According to our information, there are historic records for State Endangered *Laterallus jamaicensis* (black rail), State Special Concern *Terrapene carolina carolina* (box turtle) and *Papaipema maritima* (maritime sunflower borer moth) from the vicinity of this project site. I have sent your letter to Julie Victoria (DEP-Wildlife; 860-642-7239, julie.victoria@ct.gov) for further review. She will write to you directly with her comments.

Natural Diversity Data Base information includes all information regarding critical biological resources available to us at the time of the request. This information is a compilation of data collected over the years by the Department of Environmental Protection's Geological and Natural History Survey and cooperating units of DEP, private conservation groups and the scientific community. This information is not necessarily the result of comprehensive or site-specific field investigations. Consultations with the Data Base should not be substitutes for on-site surveys required for environmental assessments. Current research projects and new contributors continue to identify additional populations of species and locations of habitats of concern, as well as, enhance existing data. Such new information is incorporated into the Data Base as it becomes available.

Please contact me if you have further questions at 860-424-3592. Thank you for consulting the Natural Diversity Data Base. Also be advised that this is a preliminary review and not a final determination. A more detailed review may be conducted as part of any subsequent environmental permit applications submitted to DEP for the proposed site.

Sincerely,


Dawn M. McKay
Biologist/Environmental Analyst

Cc: Julie Victoria, NDDDB # 17365

December 28, 2009

Mr. Michael Amaral
U.S. Fish and Wildlife Service
70 Commercial St., #300
Concord, NH 03301-5031
Phone: 603-223-2541, Fax: 603-223-0104

Subject: Request for Section 7 Review
Amtrak Guilford / CTNH805A
Moose Hill Road, Guilford, New Haven County, CT 06437
Latitude & Longitude: 41° 16' 3.0" North; 72° 42' 58.0" West
EBI Project #61096865

Dear Mr. Amaral:

EBI CONSULTING (EBI) is preparing an environmental review on behalf of *T-Mobile Northeast LLC*, a Delaware limited liability company, as successor-in-interest to *Omnipoint Communications, Inc.*, a Delaware corporation (hereinafter *T-Mobile*) for the project noted above (herein, the Subject Property) as part of its permit process and regulatory review by the Federal Communications Commission (FCC). The review is focused on compliance with the Section 7 of the Endangered Species Act and environmental concerns specified by the FCC in 47 CFR 1.1307.

EBI would like to inquire if you would be interested in commenting on this proposed project. Specifically, EBI is interested in the USFWS's opinion of the proposed telecommunications facility's potential impact on the Roseate Tern, listed as an Endangered Species in the Town of Guilford. Please refer to the attached Project Summary Form for complete details regarding this proposed project.

Enclosed please find copies of a street map as well as a section of the representative USGS topographic map that have the location of the proposed telecommunications installation highlighted. Additionally, photographs of the areas proposed to be occupied by *T-Mobile* and vicinity properties are attached to this letter.

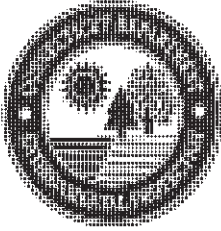
We would appreciate your assistance on determining if the proposed project will have an impact on any listed and/or proposed threatened or endangered species or designated and/or proposed critical habitats. On behalf of *T-Mobile*, I would appreciate your comments on this proposed telecommunications installation in a letter directed to my attention at the address noted above.

Sincerely,



Ms. Ami Senechal-Anderson
Environmental Scientist
(781) 552-9711
asenechal@ebiconsulting.com

Appendix A – Project Summary Form
Appendix B – Figures, Drawings, and Maps
Appendix C – Photographs



Connecticut Natural Diversity Data Base Review Request Form

Please complete this form *only* if you have conducted a review which determined that your activity is located in an area of concern.

Name:	Ami Senechal-Anderson		
Affiliation:	Consultant, EBI Consulting		
Mailing Address:	21 B St.		
City/Town:	Burlington	State:	MA
Business Phone:	781-552-9711	ext.	—
Contact Person:	Ami Senechal-Anderson	Zip Code:	01803
Project or Site Name:	Amtrak Guilford	Fax:	781-418-2367
Project Location	off Moose Hill Road, Map 66 lot 64	Title:	Environmental Scientist
Town:	Guilford	USGS Quad:	Guilford, CT
Brief Description of Proposed Activities:	Construction of a 140-foot telecommunications monopole within a proposed 50-foot by 60-foot lease area. Proposed utilities will follow proposed and existing portions of an access driveway extending from Moose Hill Rd.		
Have you conducted a "State and Federal Listed Species and Natural Communities Map" review?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Date of Map: December, 2009		
Has a field survey been previously conducted to determine the presence of any endangered, threatened or special concern species?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
If yes, provide the following information and submit a copy of the field survey with this form.			
Biologists Name:			
Address:			
If the project will require a permit, list type of permit, agency and date or proposed date of application:			

(See reverse side - you must sign the certification on the reverse side of this form)

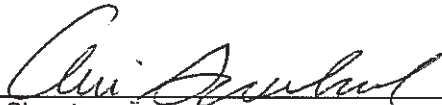
The Connecticut Natural Diversity Data Base (CT NDDB) information will be used for:

- permit application
 environmental assessment (give reasons for assessment):

NEPA

- other (specify):

"I certify that the information supplied on this form is complete and accurate, and that any material supplied by the CT NDDB will not be published without prior permission."


Signature

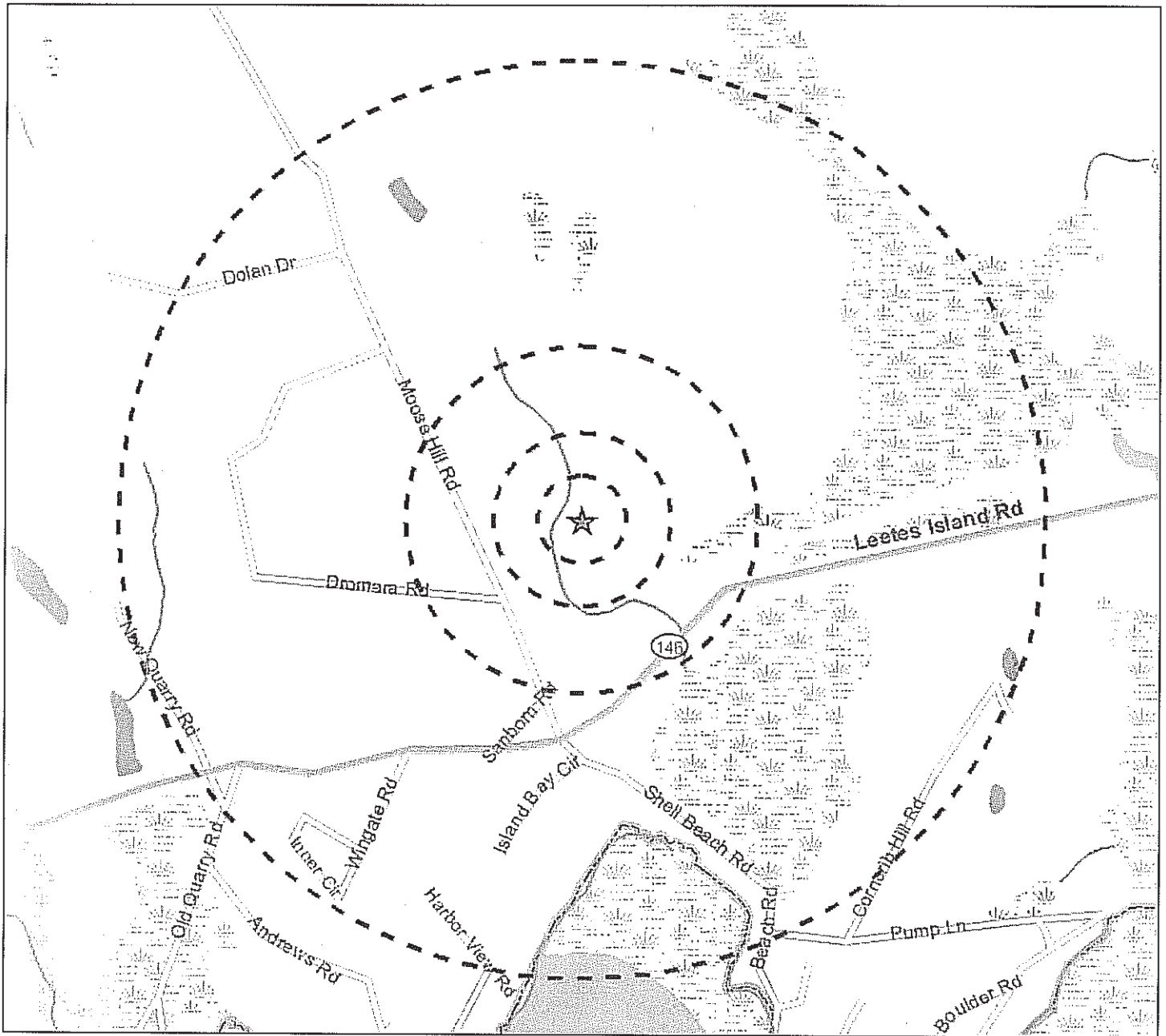
12/28/09
Date

All requests must include a USGS topographic map with the project boundary clearly delineated.

Return completed form to:

WILDLIFE DIVISION
BUREAU OF NATURAL RESOURCES
DEPARTMENT OF ENVIRONMENTAL PROTECTION
79 ELM ST, 6TH FLOOR
HARTFORD, CT 06106-5127

* You must submit a copy of this completed form with your registration or permit application.



Legend

- ★ Project Site
- Site Buffer at 250', 500', 1000' and 1/2 mile

Source: Selected data from ESRI, EBI and NWI

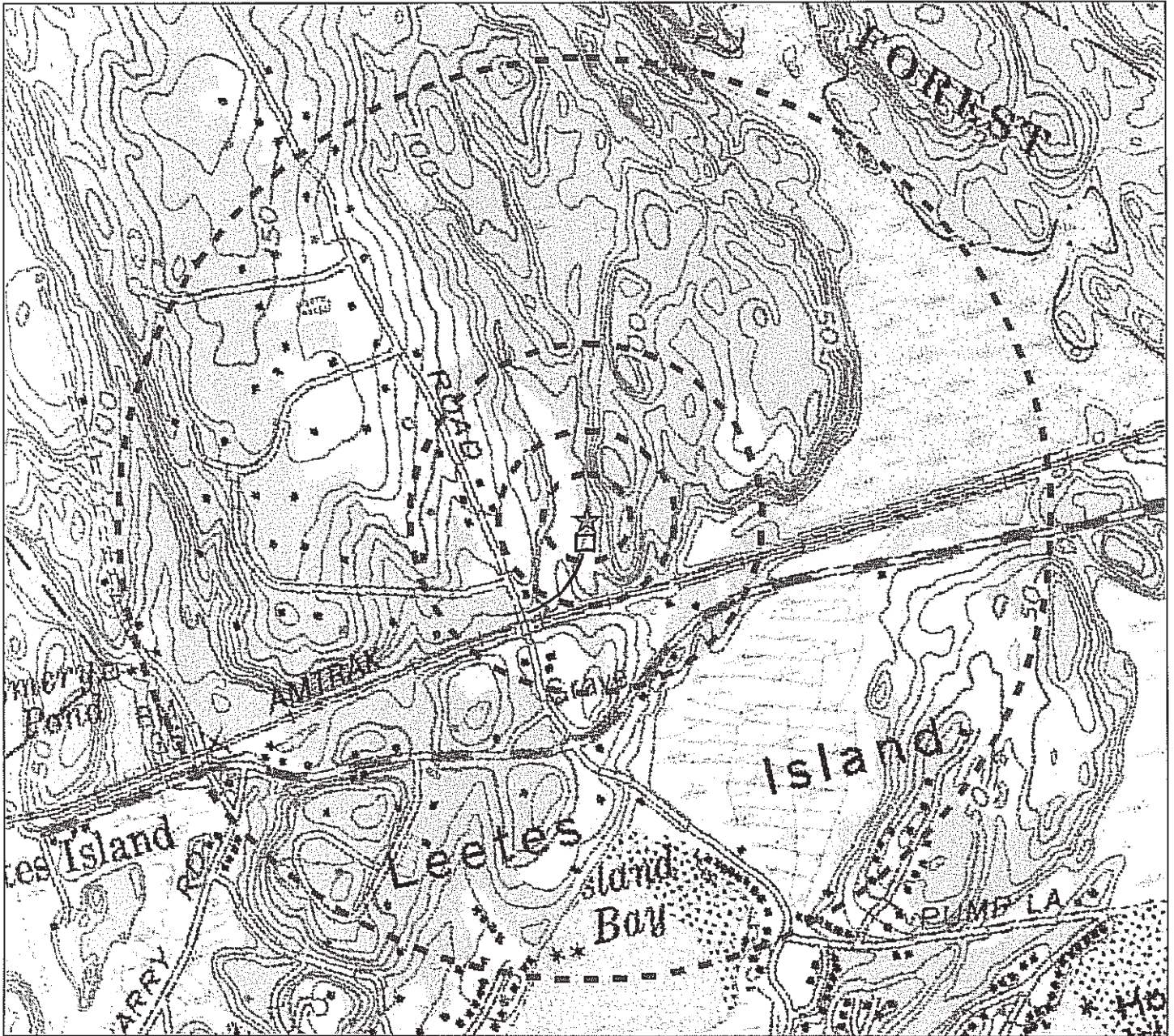
Figure 1 - Site Location Map

Guilford South, CT/P# 2000018269 L# 117585
 Moose Hill Road
 Guilford, CT

PN: 61093359



0 500 1000
 feet



Legend

- ★ Project Site
- ▭ Site Buffer at 250', 500', 1000' and 1/2 mile

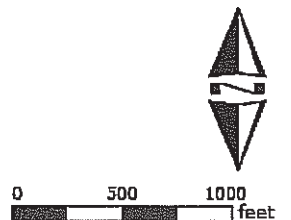
USGS 24k Quad: Gullford, CT 1985

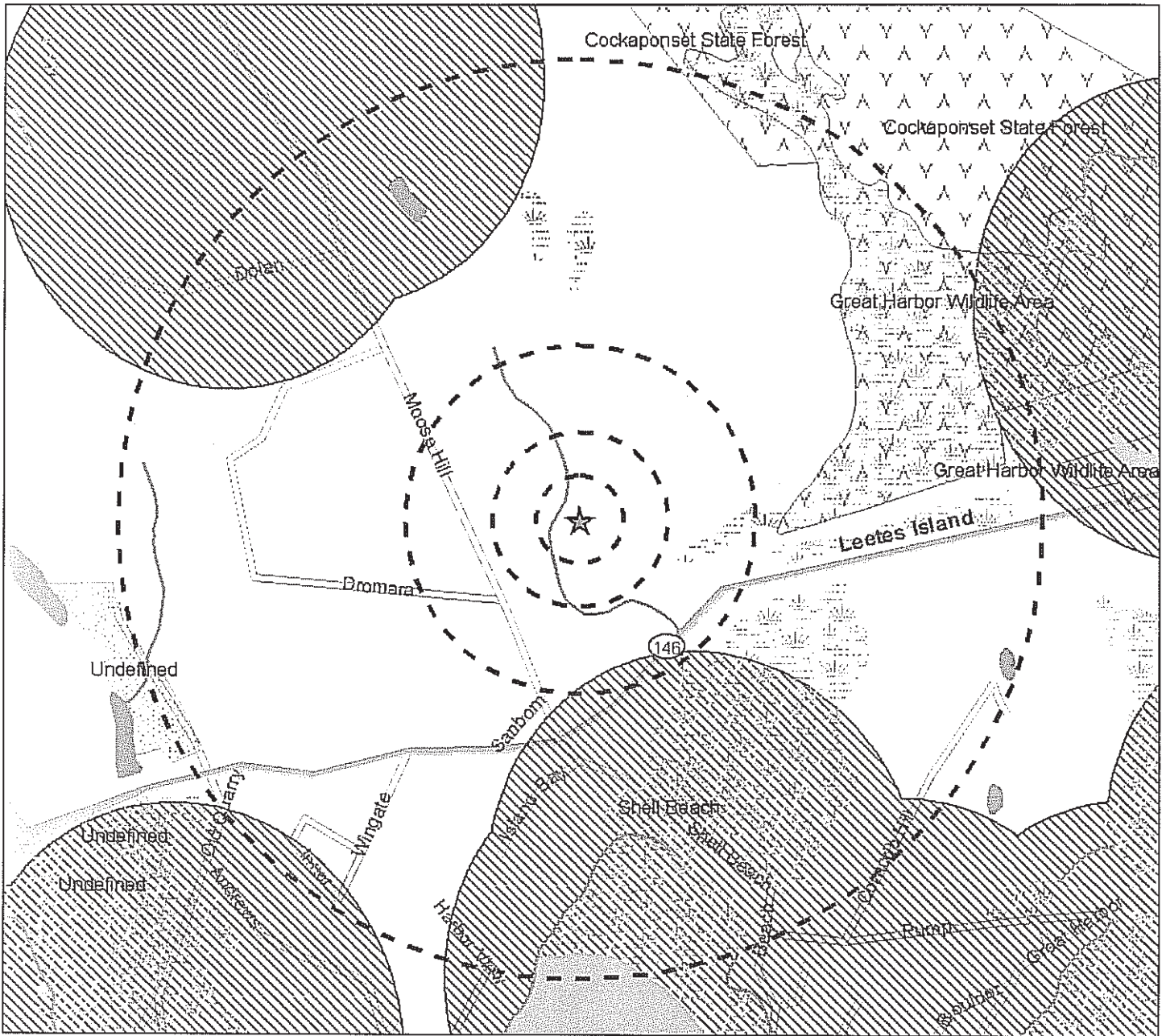
Source: Selected data from ESRI, EBI and USGS

Figure 2 - USGS Quad Location Map

Guilford South, CT/P# 2000018269 L# 117585
 Moose Hill Road
 Guilford, CT

PN: 61093359





Legend

- ★ Project Site
- Site Buffer at 250', 500', 1000' and 1/2 mile

See associated legend for additional map symbology

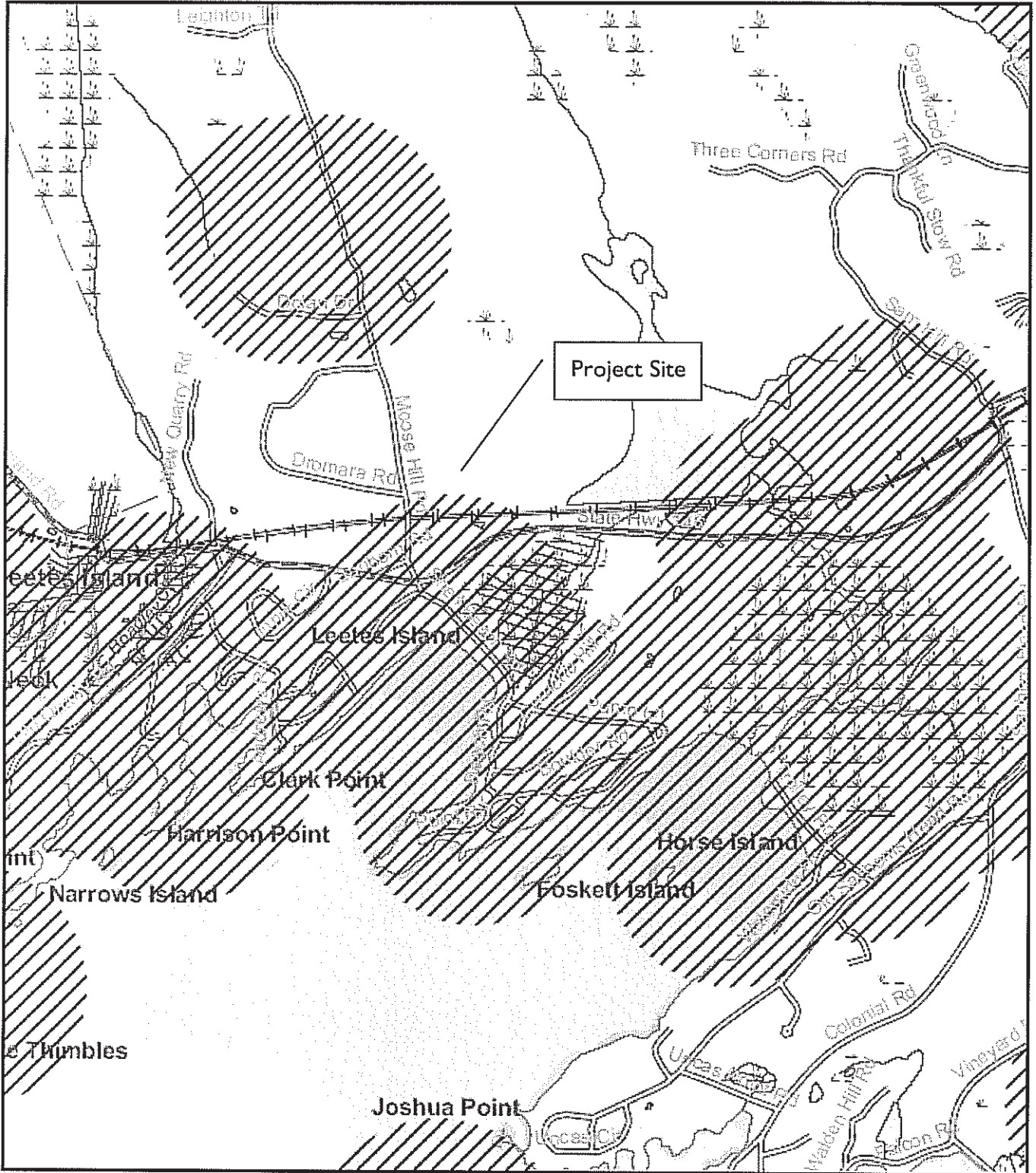
Source: See associated map legend

Land Resources Map

CTNH805A/Amtrak Guilford
 Moose Hill Road
 Guilford, CT 06437

PN: 61095865





CT NDDB Map

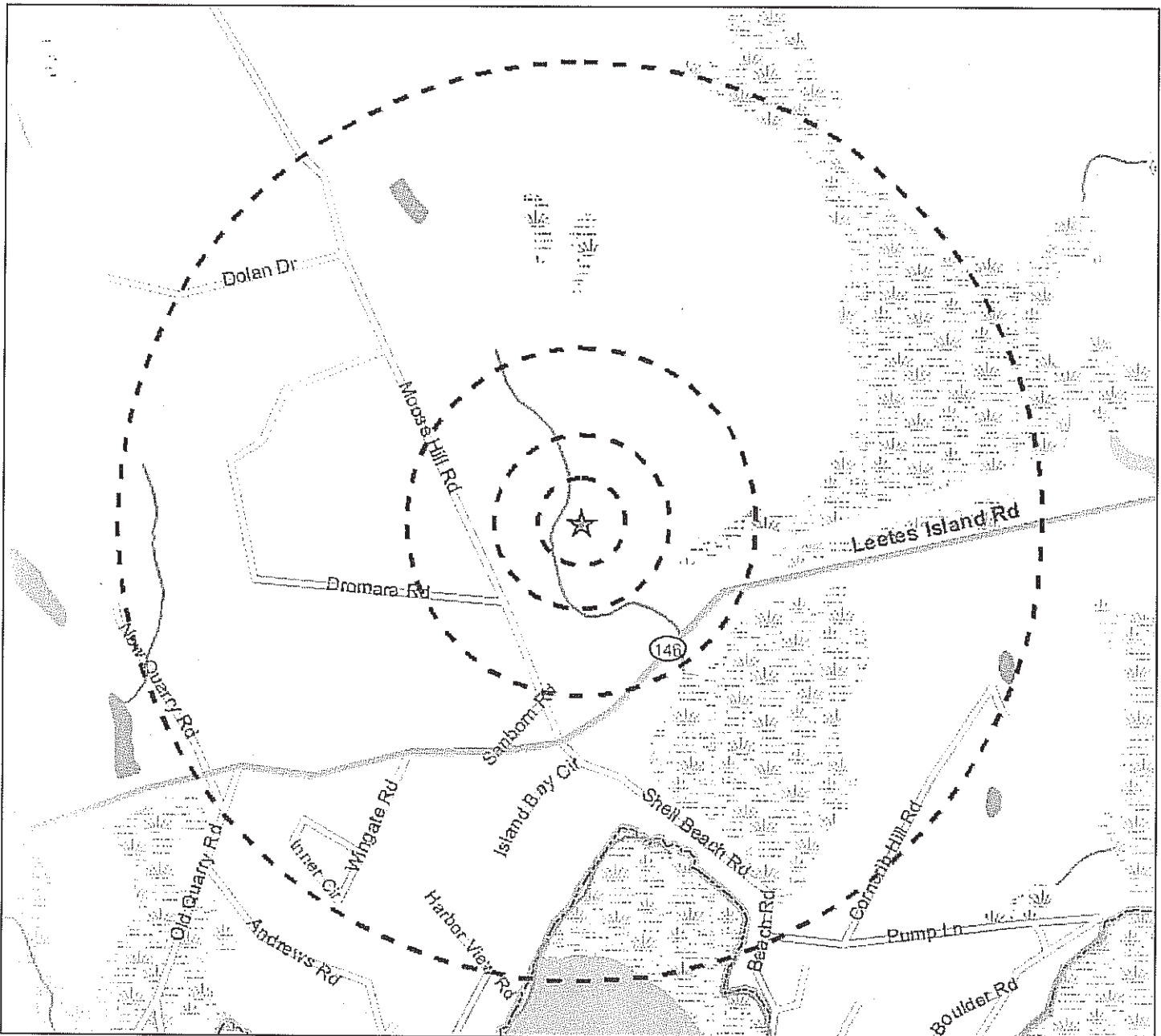
Guilford South, CT/P# 2000018269 L# 117585

Moose Hill Road

Guilford, CT

PN: 61093359





Legend

- ★ Project Site
- Site Buffer at 250', 500', 1000' and 1/2 mile

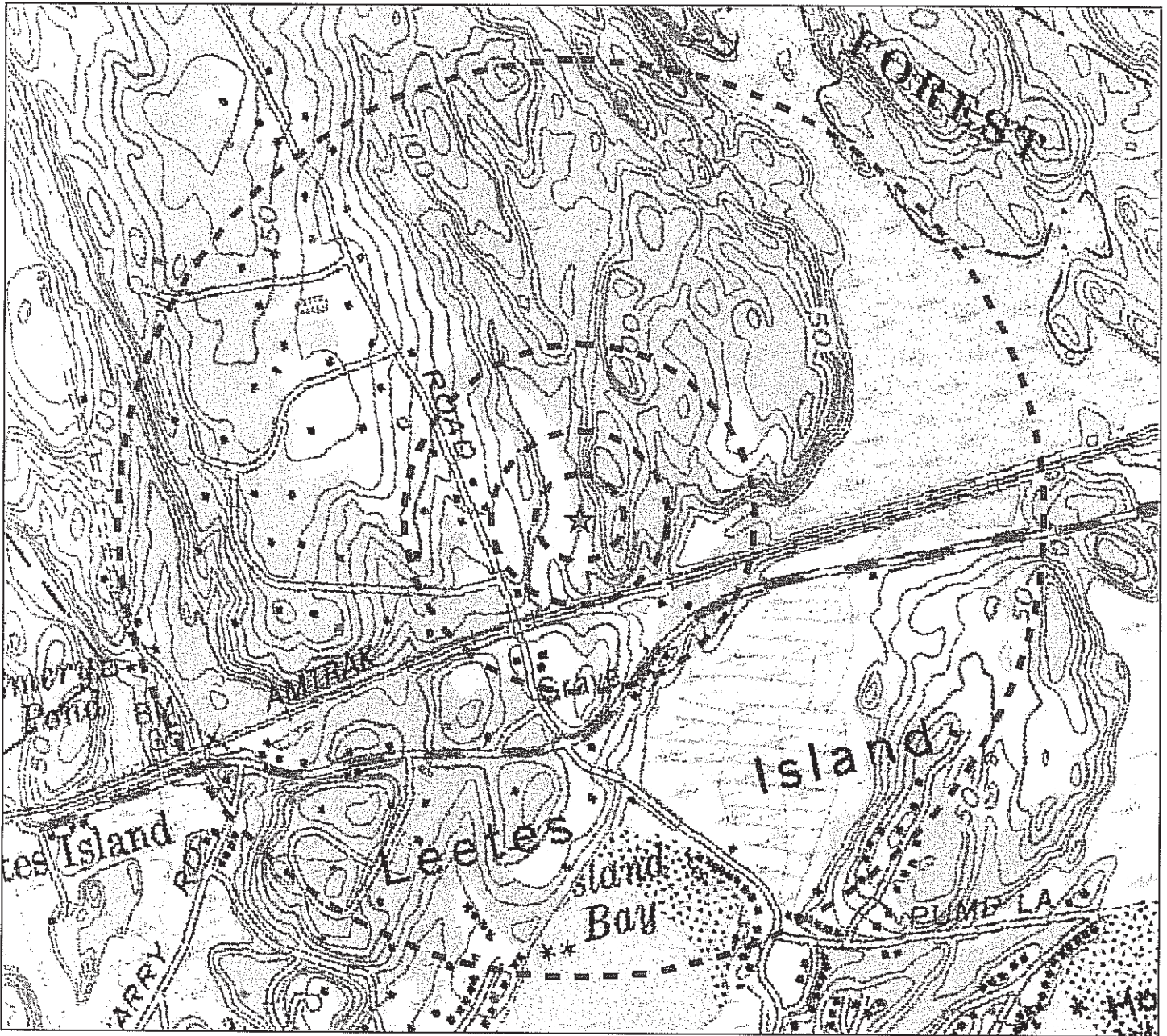
Figure 1 - Site Location Map

Guilford South, CT/P# 2000018269 L# 117585
 Moose Hill Road
 Guilford, CT

PN: 61093359

Source: Selected data from ESRI, EBI and NWI





Legend

- ★ Project Site
- ▭ Site Buffer at 250', 500', 1000' and 1/2 mile

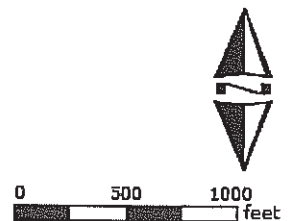
USGS 24k Quad: Guilford, CT 1985

Source: Selected data from ESRI, EBI and USGS

Figure 2 - USGS Quad Location Map

Guilford South, CT/P# 2000018269 L# 117585
 Moose Hill Road
 Guilford, CT

PN: 61093359



**FEDERALLY LISTED ENDANGERED AND THREATENED SPECIES
IN CONNECTICUT**

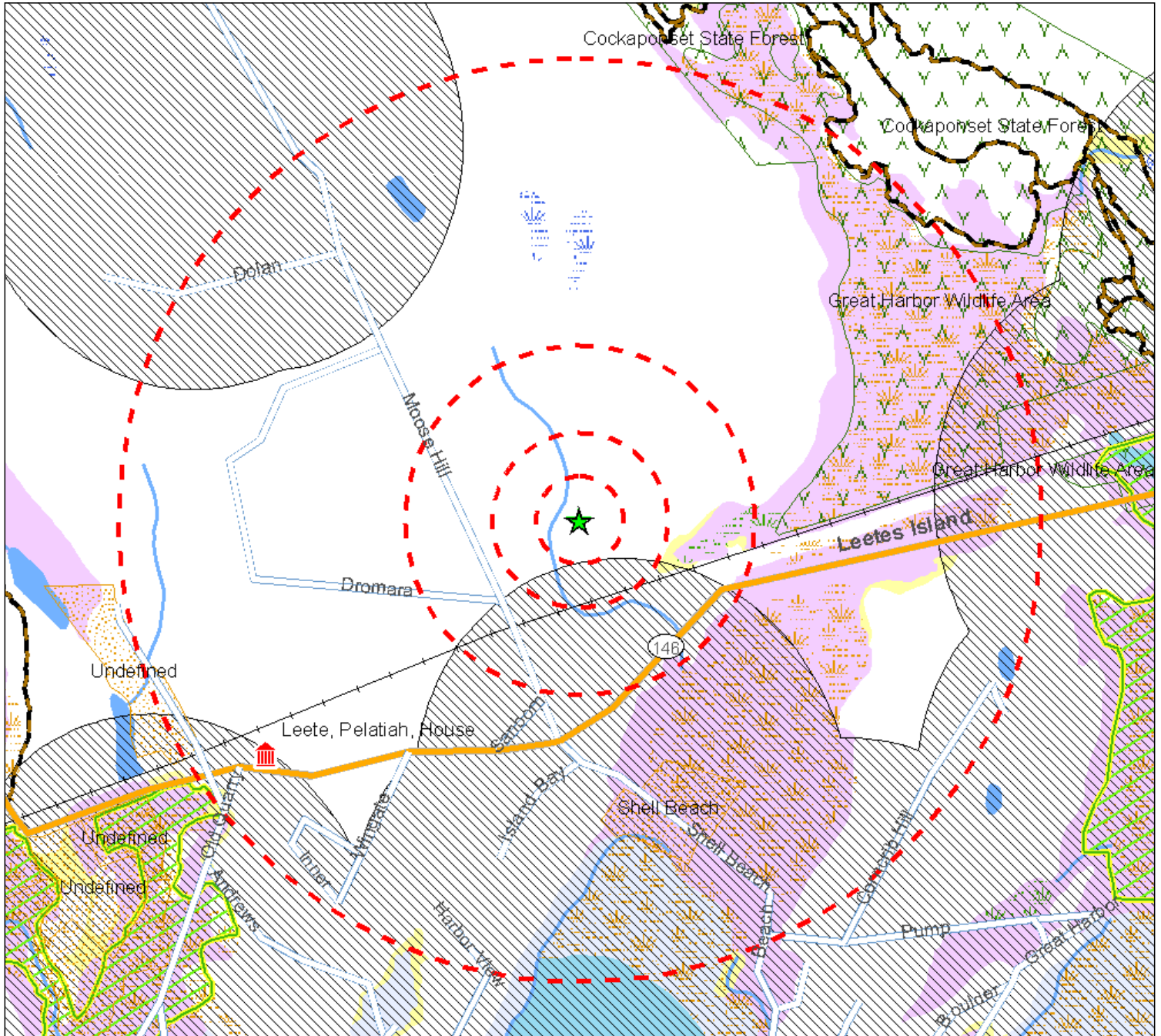
COUNTY	SPECIES	FEDERAL STATUS	GENERAL LOCATION/HABITAT	TOWNS
Fairfield	Piping Plover	Threatened	Coastal Beaches	Westport, Bridgeport and Stratford
	Roseate Tern	Endangered	Coastal beaches, Islands and the Atlantic Ocean	Westport and Stratford
	Bog Turtle	Threatened	Wetlands	Ridgefield and Danbury.
Hartford	Dwarf wedgemussel	Endangered	Farmington and Podunk Rivers	South Windsor, East Granby, Simsbury, Avon and Bloomfield.
Litchfield	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Sharon.
	Bog Turtle	Threatened	Wetlands	Sharon and Salisbury.
Middlesex	Roseate Tern	Endangered	Coastal beaches, islands and the Atlantic Ocean	Westbrook and New London.
	Piping Plover	Threatened	Coastal Beaches	Clinton, Westbrook, Old Saybrook.
New Haven	Bog Turtle	Threatened	Wetlands	Southbury
	Piping Plover	Threatened	Coastal Beaches	Milford, Madison and West Haven
	Roseate Tern	Endangered	Coastal beaches, Islands and the Atlantic Ocean	Branford, Guilford and Madison
New London	Piping Plover	Threatened	Coastal Beaches	Old Lyme, Waterford, Groton and Stonington.
	Roseate Tern	Endangered	Coastal beaches, Islands and the Atlantic Ocean	East Lyme and Waterford.
	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Waterford
Tolland	None			

-Eastern cougar, gray wolf, seabeach amaranth and American burying beetle are considered extirpated in Connecticut.

-There is no federally-designated Critical Habitat in Connecticut.

7/31/2008

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Legend

- ★ Project Site
- Site Buffer at 250', 500', 1000' and 1/2 mile

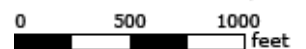
See associated legend for additional map symbology

Source: See associated map legend

Land and Historic Resources Map

CTNH805A/Amtrak Guilford
Moose Hill Road
Guilford, CT 06437

PN: 61096865



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United States Department of the Interior



FISH AND WILDLIFE SERVICE

New England Field Office
70 Commercial Street, Suite 300
Concord, NH 03301-5087
<http://www.fws.gov/newengland>

January 25, 2010

Reference: Project Location
 Telecommunications facility Guilford, CT

Ami Senechal-Anderson
EBI Consulting
21 B Street
Burlington, MA 01803

Dear Ms. Senechal-Anderson:

This responds to your recent correspondence requesting information on the presence of federally-listed and/or proposed endangered or threatened species in relation to the proposed activity(ies) referenced above.

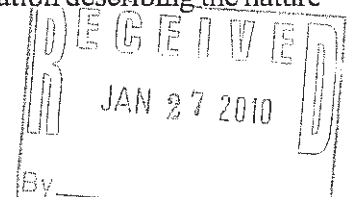
Based on information currently available to us, no federally-listed or proposed, threatened or endangered species or critical habitat under the jurisdiction of the U.S. Fish and Wildlife Service are known to occur in the project area(s). Preparation of a Biological Assessment or further consultation with us under section 7 of the Endangered Species Act is not required.

This concludes our review of listed species and critical habitat in the project location(s) and environs referenced above. No further Endangered Species Act coordination of this type is necessary for a period of one year from the date of this letter, unless additional information on listed or proposed species becomes available.

In order to curtail the need to contact this office in the future for updated lists of federally-listed or proposed threatened or endangered species and critical habitats, please visit the Endangered Species Consultation page on the New England Field Office's website:

www.fws.gov/newengland/endangeredspec-consultation.htm

In addition, there is a link to procedures that may allow you to conclude if habitat for a listed species is present in the project area. If no habitat exists, then no federally-listed species are present in the project area and there is no need to contact us for further consultation. If the above conclusion cannot be reached, further consultation with this office is advised. Information describing the nature



Ami Senechal-Anderson

2

January 25, 2010

and location of the proposed activity that should be provided to us for further informal consultation can be found at the above-referenced site.

Thank you for your coordination. Please contact Anthony Tur at 603-223-2541 if we can be of further assistance.

Sincerely yours,

A handwritten signature in black ink, appearing to read 'TRC', with a long horizontal flourish extending to the right.

Thomas R. Chapman
Supervisor
New England Field Office

December 28, 2009

Natural Diversity Data Base
79 Elm Street
Hartford, CT 06106
Attn: Dawn McKay
860-424-3592

Subject: Request for Section 7 Review
Amtrak Guilford / CTNH805A
Moose Hill Road, Guilford, New Haven County, CT 06437
Latitude & Longitude: 41° 16' 3.0" North; 72° 42' 58.0" West
EBI Project #61096865

Dear Ms. McKay:

EBI CONSULTING (EBI) is preparing an environmental review on behalf of *T-Mobile Northeast LLC*, a Delaware limited liability company, as successor-in-interest to *Omnipoint Communications, Inc.*, a Delaware corporation (hereinafter *T-Mobile*) for the project noted above (herein, the Subject Property) as part of its permit process and regulatory review by the Federal Communications Commission (FCC). The review is focused on compliance with the Section 7 of the Endangered Species Act and environmental concerns specified by the FCC in 47 CFR 1.1307.

EBI would like to inquire if you would be interested in commenting on this proposed project. Please refer to the attached Project Summary Form for complete details regarding this proposed project.

Enclosed please find copies of a street map as well as a section of the representative USGS topographic map that have the location of the proposed telecommunications installation highlighted. Additionally, photographs of the areas proposed to be occupied by *T-Mobile* and vicinity properties are attached to this letter.

We would appreciate your assistance on determining if the proposed project will have an impact on any listed and/or proposed threatened or endangered species or designated and/or proposed critical habitats. On behalf of *T-Mobile*, I would appreciate your comments on this proposed telecommunications installation in a letter directed to my attention at the address noted above.

Sincerely,



Ms. Ami Senechal-Anderson
Environmental Scientist
(781) 552-9711
asenechal@ebiconsulting.com

Appendix A – Project Summary Form
Appendix B – Figures, Drawings, and Maps
Appendix C – Photographs

United States Department of Interior
Fish and Wildlife Service
Washington, DC 20240

September 14, 2000

To: Regional Directors

From: Director /s/ Jamie Rappaport Clark

Subject: Service Guidance on the Siting, Construction, Operation and Decommissioning of Communications Towers

Construction of communications towers (including radio, television, cellular, and microwave) in the United States has been growing at an exponential rate, increasing at an estimated 6 percent to 8 percent annually. According to the Federal Communication Commission's *2000 Antenna Structure Registry*, the number of lighted towers greater than 199 feet above ground level (AGL) currently number over 45,000 and the total number of towers over 74,000. Non-compliance with the registry program is estimated at 24 percent to 38 percent, bringing the total to 92,000 to 102,000. By 2003, all television stations must be digital, adding potentially 1,000 new towers exceeding 1,000 feet AGL.

The construction of new towers creates a potentially significant impact on migratory birds, especially some 350 species of night-migrating birds. Communications towers are estimated to kill 4-5 million birds per year, which violates the spirit and the intent of the Migratory Bird Treaty Act and the Code of Federal Regulations at Part 50 designed to implement the MBTA. Some of the species affected are also protected under the Endangered Species Act and Bald and Golden Eagle Act.

Service personnel may become involved in the review of proposed tower sitings and/or in the evaluation of tower impacts on migratory birds through National Environmental Policy Act review; specifically, Sections 1501.6, opportunity to be a cooperating agency, and 1503.4, duty to comment on federally-licensed activities for agencies with jurisdiction by law, in this case the MBTA, or because of special expertise. Also, the National Wildlife Refuge System Improvement Act requires that any activity on Refuge lands be determined as compatible with the Refuge system mission and the Refuge purpose(s). In addition, the Service is required by the ESA to assist other Federal agencies in ensuring that any action they authorize, implement, or fund will not jeopardize the continued existence of any Federally endangered or threatened species.

A Communication Tower Working Group composed of government agencies, industry, academic researchers and NGO's has been formed to develop and implement a research protocol to determine the best ways to construct and operate towers to prevent bird strikes. Until the research study is completed, or until research efforts uncover significant new mitigation measures, all Service personnel involved in the review of proposed tower sitings and/or the evaluation of the impacts of towers on migratory birds should use the attached interim guidelines when making recommendations to all companies, license applicants, or licensees proposing new tower sitings. These guidelines were developed by Service personnel from research conducted in several eastern, midwestern, and southern states, and have been refined through Regional review. They are based on the best information available at this time, and are the most prudent and effective measures for avoiding bird strikes at towers. We believe that they will provide significant protection for migratory birds pending completion of the Working Group's recommendations. As new information becomes available, the guidelines will be updated accordingly.

Implementation of these guidelines by the communications industry is voluntary, and our recommendations must be balanced with Federal Aviation Administration requirements and local

community concerns where necessary. Field offices have discretion in the use of these guidelines on a case by case basis, and may also have additional recommendations to add which are specific to their geographic area.

Also attached is a [Tower Site Evaluation Form](#) which may prove useful in evaluating proposed towers and in streamlining the evaluation process. Copies may be provided to consultants or tower companies who regularly submit requests for consultation, as well as to those who submit individual requests that do not contain sufficient information to allow adequate evaluation. This form is for discretionary use, and may be modified as necessary.

The Migratory Bird Treaty Act (16 U.S.C. 703-712) prohibits the taking, killing, possession, transportation, and importation of migratory birds, their eggs, parts, and nests, except when specifically authorized by the Department of the Interior. While the Act has no provision for allowing unauthorized take, it must be recognized that some birds may be killed at structures such as communications towers even if all reasonable measures to avoid it are implemented. The Service's Division of Law Enforcement carries out its mission to protect migratory birds not only through investigations and enforcement, but also through fostering relationships with individuals and industries that proactively seek to eliminate their impacts on migratory birds. While it is not possible under the Act to absolve individuals or companies from liability if they follow these recommended guidelines, the Division of Law Enforcement and Department of Justice have used enforcement and prosecutorial discretion in the past regarding individuals or companies who have made good faith efforts to avoid the take of migratory birds.

Please ensure that all field personnel involved in review of FCC licensed communications tower proposals receive copies of this memorandum. Questions regarding this issue should be directed to Dr. Benjamin Tuggle, Chief, Division of Habitat Conservation, at (703)358-2161, or Jon Andrew, Chief, Division of Migratory Bird Management, at (703)358-1714. These guidelines will be incorporated in a Director's Order and placed in the Fish and Wildlife Service Manual at a future date.

Service Interim Guidelines For Recommendations On

Communications Tower Siting, Construction, Operation, and Decommissioning

1. Any company/applicant/licensee proposing to construct a new communications tower should be strongly encouraged to collocate the communications equipment on an existing communication tower or other structure (*e.g.*, billboard, water tower, or building mount). Depending on tower load factors, from 6 to 10 providers may collocate on an existing tower.
2. If collocation is not feasible and a new tower or towers are to be constructed, communications service providers should be strongly encouraged to construct towers no more than 199 feet above ground level (AGL), using construction techniques which do not require guy wires (*e.g.*, use a lattice structure, monopole, etc.). Such towers should be unlighted if Federal Aviation Administration regulations permit.
3. If constructing multiple towers, providers should consider the cumulative impacts of all of those towers to migratory birds and threatened and endangered species as well as the impacts of each individual tower.
4. If at all possible, new towers should be sited within existing "antenna farms" (clusters of towers). Towers should not be sited in or near wetlands, other known bird concentration areas (*e.g.*, state or

Federal refuges, staging areas, rookeries), in known migratory or daily movement flyways, or in habitat of threatened or endangered species. Towers should not be sited in areas with a high incidence of fog, mist, and low ceilings.

5. If taller (>199 feet AGL) towers requiring lights for aviation safety must be constructed, the minimum amount of pilot warning and obstruction avoidance lighting required by the FAA should be used. Unless otherwise required by the FAA, only white (preferable) or red strobe lights should be used at night, and these should be the minimum number, minimum intensity, and minimum number of flashes per minute (longest duration between flashes) allowable by the FAA. The use of solid red or pulsating red warning lights at night should be avoided. Current research indicates that solid or pulsating (beacon) red lights attract night-migrating birds at a much higher rate than white strobe lights. Red strobe lights have not yet been studied.
6. Tower designs using guy wires for support which are proposed to be located in known raptor or waterbird concentration areas or daily movement routes, or in major diurnal migratory bird movement routes or stopover sites, should have daytime visual markers on the wires to prevent collisions by these diurnally moving species. (For guidance on markers, see *Avian Power Line Interaction Committee (APLIC). 1994. Mitigating Bird Collisions with Power Lines: The State of the Art in 1994. Edison Electric Institute, Washington, D.C., 78 pp*, and *Avian Power Line Interaction Committee (APLIC). 1996. Suggested Practices for Raptor Protection on Power Lines. Edison Electric Institute/Raptor Research Foundation, Washington, D.C., 128 pp*. Copies can be obtained via the Internet at <http://www.eei.org/resources/pubcat/enviro/>, or by calling 1-800/334-5453).
7. Towers and appendant facilities should be sited, designed and constructed so as to avoid or minimize habitat loss within and adjacent to the tower "footprint". However, a larger tower footprint is preferable to the use of guy wires in construction. Road access and fencing should be minimized to reduce or prevent habitat fragmentation and disturbance, and to reduce above ground obstacles to birds in flight.
8. If significant numbers of breeding, feeding, or roosting birds are known to habitually use the proposed tower construction area, relocation to an alternate site should be recommended. If this is not an option, seasonal restrictions on construction may be advisable in order to avoid disturbance during periods of high bird activity.
9. In order to reduce the number of towers needed in the future, providers should be encouraged to design new towers structurally and electrically to accommodate the applicant/licensee's antennas and comparable antennas for at least two additional users (minimum of three users for each tower structure), unless this design would require the addition of lights or guy wires to an otherwise unlighted and/or unguyed tower.
10. Security lighting for on-ground facilities and equipment should be down-shielded to keep light within the boundaries of the site.
11. If a tower is constructed or proposed for construction, Service personnel or researchers from the Communication Tower Working Group should be allowed access to the site to evaluate bird use, conduct dead-bird searches, to place net catchments below the towers but above the ground, and to place radar, Global Positioning System, infrared, thermal imagery, and acoustical monitoring equipment as necessary to assess and verify bird movements and to gain information on the impacts of various tower sizes, configurations, and lighting systems.

12. Towers no longer in use or determined to be obsolete should be removed within 12 months of cessation of use.

In order to obtain information on the extent to which these guidelines are being implemented, and to identify any recurring problems with their implementation which may necessitate modifications, letters provided in response to requests for evaluation of proposed towers should contain the following request:

“In order to obtain information on the usefulness of these guidelines in preventing bird strikes, and to identify any recurring problems with their implementation which may necessitate modifications, please advise us of the final location and specifications of the proposed tower, and which of the measures recommended for the protection of migratory birds were implemented. If any of the recommended measures can not be implemented, please explain why they were not feasible.”

Return to [Home Page](#)

EXHIBIT P

Technical Memo

To: Ray Vergati
From: Scott Heffernan - Radio Frequency Engineer
cc: Jason Overbey
Subject: Power Density Report for CTNH805A
Date: April 21, 2011

1. Introduction:

This report is the result of an Electromagnetic Field Intensities (EMF - Power Densities) study for the T-Mobile PCS/UMTS antenna installation on a Monopole at Moose Hill Road, Guilford, CT. This study incorporates the most conservative consideration for determining the practical combined worst case power density levels that would be theoretically encountered from locations surrounding the transmitting location.

2. Discussion:

The following assumptions were used in the calculations:

- 1) The emissions from T-Mobile transmitters are in the (1935-1945),(1980 to 1985),(2140-2145) & (2110-2120) MHz frequency Bands.
- 2) The antenna array consists of three sectors, with 3 antennas per sector.
- 3) The model number for GSM antenna is APX16DWV-16DWV.
- 3) The model number for UMTS antenna is APX16DWV-16DWV.
- 4) GSM antenna center line height is 107 ft.
- 4) UMTS antenna center line height is 107 ft.
- 5) The maximum transmit power from any GSM sector is 1898.37 Watts Effective Radiated Power (EiRP) assuming 6 channels per sector.
- 5) The maximum transmit power from any UMTS sector is 2525.17 Watts Effective Radiated Power (EiRP) assuming 2 channels per sector.
- 6) All the antennas are simultaneously transmitting and receiving, 24 hours a day.
- 7) Power levels emitting from the antennas are increased by a factor of 2.56 to account for possible in-phase reflections from the surrounding environment. This is rarely the case, and if so, is never continuous.
- 8) The average ground level of the studied area does not change significantly with respect to the transmitting location

Equations given in "FCC OET Bulletin 65, Edition 97-01" were then used with the above information to perform the calculations.

3. Conclusion:

Based on the above worst case assumptions, the power density calculation from the T-Mobile PCS antenna installation on a Monopole at Moose Hill Road, Guilford, CT, is 0.09514 mW/cm². This value represents 9.514% of the Maximum Permissible Exposure (MPE) standard of 1 milliwatt per square centimeter (mW/cm²) set forth in the FCC/ANSI/IEEE C95.1-1991. Furthermore, the proposed antenna location for T-Mobile will not interfere with existing public safety communications, AM or FM radio broadcasts, TV, Police Communications, HAM Radio communications or any other signals in the area.

Worst Case Assumptions: is defined as assuming that the main lobe of the transmitting antenna is always focused at the sample point of interest. This assumes that the maximum gain is realized at this point and will yield the highest possible MPE% value possible for that given point / distance. In reality, due to the highly focused nature of the proposed antennas, most of the available energy transmitting from the proposed facility will be directed toward the horizon to best enhance the desired coverage footprint area. The net result is that a very small percentage of the available energy is directed toward the ground area in close proximity to the facility. Values seen in the immediate area of the facility will be on the order of 10 to 20 dB lower in actual value than the worst case assumption since the gain of the antenna pattern is dramatically reduced at these angles. A 10 to 20 dB reduction in power output potential equates to a value that is between 10 and 100 times lower than expected calculated values.

Connecticut Market



Worst Case Power Density

Site: CTNH805A
Site Address: Moose Hill Road
Town: Guilford
Tower Height: 110 ft.
Facility Style: Monopole

GSM Data		UMTS Data	
Base Station TX output	20 W	Base Station TX output	40 W
Number of channels	6	Number of channels	2
Antenna Model	APX16DWV-16DWV	Antenna Model	APX16DWV-16DWV
Cable Size	1 5/8 in.	Cable Size	1 5/8 in.
Cable Length	130 ft.	Cable Length	130 ft.
Antenna Height	107.0 ft.	Antenna Height	107.0 ft.
Ground Reflection	1.6	Ground Reflection	1.6
Frequency	1945.0 MHz	Frequency	2.1 GHz
Jumper & Connector loss	4.50 dB	Jumper & Connector loss	1.50 dB
Antenna Gain	18.0 dBi	Antenna Gain	18.0 dBi
Cable Loss per foot	0.0116 dB	Cable Loss per foot	0.0116 dB
Total Cable Loss	1.5080 dB	Total Cable Loss	1.5080 dB
Total Attenuation	6.0080 dB	Total Attenuation	3.0080 dB
Total EIRP per Channel (In Watts)	55.00 dBm 316.40 W	Total EIRP per Channel (In Watts)	61.01 dBm 1262.58 W
Total EIRP per Sector (In Watts)	62.78 dBm 1898.37 W	Total EIRP per Sector (In Watts)	64.02 dBm 2525.17 W
nsg	11.9920	nsg	14.9920
Power Density (S) = 0.040828 mW/cm ²		Power Density (S) = 0.054308 mW/cm ²	
T-Mobile Worst Case % MPE =		9.5137%	

Equation Used :

$$S = \frac{(1000)(grf)^2 (Power)^* 10^{(nsg/10)}}{4\pi (R)^2}$$

Office of Engineering and Technology (OET) Bulletin 65, Edition 97-01, August 1997

EXHIBIT Q

December 22, 2009

Ms. Jamie Ford
Project Coordinator
HPC Development, LLC
53 Lake Ave Ext.
Danbury, CT 06811

Subject: National Environmental Policy Act (NEPA) - Letter of Low Potential Impact
CTNH805A / Amtrak Guilford
Moose Hill Road, Guilford, CT
EBI Project # 61096865

Dear Ms. Ford:

Attached please find our *National Environmental Policy Act (NEPA)* Letter of Low Potential Impact for the proposed telecommunications installation at the address noted above (the Subject Property). The purpose of this *letter* is to evaluate the above-referenced property for potential environmental and historical concerns specified by the Federal Communications Commission (FCC) in 47 CFR 1.1307.

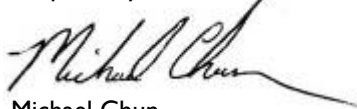
As of the date of this *Report* T-Mobile Northeast, LLC, *T-Mobile* proposes to construct a 140-foot monopole-style telecommunications tower within a proposed 50-foot by 50-foot fenced compound within the proposed 50-foot by 60-foot lease area. T-Mobile will mount a total of nine antennas at a centerline height of 137-feet 9-inches above ground level to the proposed tower. Proposed support equipment will be placed on a 10-foot by 20-foot concrete slab at the base of the proposed tower within a fenced compound. The right-of-way will follow a portion of an existing gravel driveway and require the improvement of a new gravel driveway from the existing driveway to the proposed tower compound.

Although the proposed project is located near the Route 146 Historic District, the facility is not likely to have an adverse impact on this historic resource. The proposed facility is sited in a remote location near the Amtrak right-of-way with approximately 52' of the proposed monopole rising above the top of the tree canopy. EBI would, however, recommend that photo simulations be prepared to quantify the visual impact to the aforementioned historic district and other nearby historic resources.

Ultimately, based upon the results of our preliminary NEPA screening, it appears that the proposed facility would not impact any of the criteria outlined in 1.1307(a), items (1) through (8). An Environmental Assessment is not required. Prior to issuing our final determination, we must complete the Section 106 and Native American consultation required under Section 1.1307(a) (4) and (5) of the FCC Rules. However, our preliminary review and archaeological assessment indicates that it is unlikely that the proposed undertaking would impact listed historic resources and Native American religious sites.

Thank you for the opportunity to prepare this *Report*, and assist you with this project. Please call us if you have any questions or if we may be of further assistance.

Respectfully Submitted,



Michael Chun
Program Director
Direct# (646) 789-9206

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National Environmental Policy Act (NEPA) Screening Report

Prepared for:

T-Mobile Northeast, LLC
% Ms. Amy English
HPC Development, LLC
5827 Shamrock Court
Hamburg, NY 14075



CTNH805A / AMTRAK GUILFORD

**Moose Hill Road
Guilford, Connecticut 06437**

EBI Project No. 61096865

Site Report Date: April 5, 2011

April 5, 2011

Mr. Hans Fiedler
T-Mobile Northeast, LLC
% Ms. Amy English
HPC Development, LLC
5827 Shamrock Court
Hamburg, NY 14075

Subject: National Environmental Policy Act (NEPA) Screening Report
CTNH805A / Amtrak Guilford
Moose Hill Road, Guilford, Connecticut
EBI Project #61096865

Dear Mr. Fiedler:

Attached please find our *National Environmental Policy Act (NEPA) Screening Report*, (the *Report*) for the proposed telecommunications installation at the address noted above (the Subject Property). The purpose of this *Report* is to evaluate the above-referenced property for environmental and historical concerns specified by the Federal Communications Commission (FCC) in 47 CFR 1.1307 and general industry standards.

The Subject Property, known as CTNH805A / Amtrak Guilford, consists of an approximately 163-acre lot that is unimproved with the exception a gravel and dirt access driveway.

As of the date of this *Report*, T-Mobile Northeast LLC, (hereinafter, T-Mobile) proposes to construct a 110-foot monopole-style telecommunications tower and associated support equipment, enclosed within a proposed 50-foot by 50-foot fenced compound, on a 50-foot by 60-foot lease area. The tower will be painted a medium gray-brown. T-Mobile will flush mount a total of three panel antennas and six TMAs at a centerline height of 107.75 feet above ground level (AGL) to the proposed tower. Proposed support equipment will be placed on a 10-foot by 20-foot concrete slab at the base of the tower within the fenced compound. The support equipment will connect to the tower via a proposed ice bridge. A meter center, CSC cabinet and step-down transformer will be placed to the west of the tower compound, but within the 50-foot by 60-foot lease area. Power and telco conduits will be routed underground from the support equipment to the meter center, CSC cabinet, and transformer. Conduits will then be routed underground from the tower compound along a proposed 25-foot wide utility and access right of way. The proposed right of way will follow a portion of an existing gravel driveway and require the improvement of a new gravel driveway from the existing driveway to the proposed tower compound. T-Mobile proposes to replace an 18-inch concrete culvert with a new 16 foot long, five foot by four foot concrete box culvert to route a stream and wetland area beneath the access road.

Please find the attached National Environmental Policy Act (NEPA) Checklist, NEPA Summary Report, and associated documentation for the above-referenced site. Based upon the results of our assessment, it appears that the proposed installation will not adversely impact any of the criteria as outlined in 1.1307(a) items (1) through (3), (5), (6), and (8).

Please note regarding Item (3) the Project Site is mapped by the Connecticut Natural Diversity Database Program as being located within close proximity to a critical habitat area for the Eastern Box Turtle. The Connecticut Department of Environmental Protection Wildlife Division recommends that “work should be done during the turtle dormant period November 1 to April 1. Additionally, the DEP

Wildlife Division recommends that if work must be done during these turtles' active period (April 1 to November 1) that the following precautionary measures be implemented to protect the turtles:

1. **The construction crew be apprised of the species description and possible presence and that the area be searched for turtles each day prior to construction.**
2. **Any turtles encountered during construction be moved out of the way.**
3. **All precautions should be taken to avoid degradation to wetland habitats include any wet meadows and seasonal pools.**
4. **That work conducted in these habitats during the early morning and evening hours should occur with special care not to harm basking or foraging individual turtles.**
5. **That no heavy machinery or vehicles be parked in any habitat."**

Regarding item (4), In a letter dated February 16, 2011, the CT SHPO stated that "the undertakings will have 'no adverse effect' on the Route 146 Historic District, which is listed on the National Register of Historic Places, with the following conditions:

1. **The tower will be painted medium gray-brown, to blend with the bark color of adjacent trees, with flush-mounted antennae and will not exceed 110 feet and**
2. **If not in use for six consecutive months, the antennae and equipment shall be removed by the telecommunications facility owner. This removal shall occur within 90 days of the end of such six-month period. Upon removal, the property shall be restored by the facility owner to its historically appropriate appearance and materials."**

Regarding item (7), based on drawings provided to EBI, the project will require the replacement of an existing culvert routing an existing stream/wetland area beneath the access road. Therefore, EBI recommends that an Environmental Assessment (EA) be prepared and submitted to the FCC.

The *Report* was completed according to the terms and conditions authorized by you. There are no intended or unintended third party beneficiaries to this *Report*, unless specifically named. EBI is an independent contractor, not an employee of either the property owner or the project proponent, and its compensation was not based on the findings or recommendations made in the *Report* or on the closing of any business transaction. Note that the findings of this *Report* are based on the project specifications provided to EBI and described in this *Report*. In the event that the design or location of the installation changes, please contact EBI as additional review and/or consultation may be required.

Thank you for the opportunity to prepare this *Report*, and assist you with this project. Please call us if you have any questions or if we may be of further assistance.

Respectfully Submitted,



Ms. Trevelyn Potter
Author/Program Manager




Mr. Christopher W. Baird
Reviewer/NEPA Technical Director
Direct# (617) 715-1846




Ms. Ashley Bonavenia DeCabia
Managing Consultant

- Appendix A – NEPA Checklist
- Appendix B – FCC NEPA Summary Report
- Appendix C – Figures, Drawings, and Maps
- Appendix D – NPA Checklist and SHPO Correspondence
- Appendix E – Tribal Correspondence
- Appendix F – Land Resources Map
- Appendix G – Federal and State Fish and Wildlife Service Correspondence
- Appendix H – Wetlands Map
- Appendix I – FEMA Floodplain Map

	Site type (choose one): <input checked="" type="checkbox"/> Raw land <input type="checkbox"/> Tower colo <input type="checkbox"/> Other colo <input type="checkbox"/> Tower Replacement	Site ID: CTNH805A / Amtrak Guilford	Site Address: Moose Hill Road, Guilford, Connecticut
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NEPA Land Use Screening Checklist

FCC NEPA Category	Consulting Agency to Contact	Check appropriate boxes below			
		No Adverse Impact	Potential Adverse Impact	Exempt from Review	NPA Applies
Designated Wilderness Areas	National Park Service, US Forest Service, Bureau of Land Management (BLM)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Designated Wildlife Preserves	National Park Service, US Forest Service, BLM	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Threatened or Endangered Species & Critical Habitats	US Fish & Wildlife Service - Field Office (USF&WS)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Historic Places	State Historic Preservation Officer (SHPO), Tribal Historic Preservation Officer (THPO)	<input checked="" type="checkbox"/> SHPO consultation completed	<input type="checkbox"/>	<input type="checkbox"/>	Collocation Agreement applies: <input type="checkbox"/> Nationwide Agreement Exclusion applies: <input type="checkbox"/>
Indian Religious Sites	American Indian Tribes, Bureau of Indian Affairs	<input checked="" type="checkbox"/> Tribal consultation completed	<input type="checkbox"/>	<input type="checkbox"/>	Collocation Agreement applies: <input type="checkbox"/> Nationwide Agreement Exclusion applies: <input type="checkbox"/>
Floodplain	Federal Emergency Management Agency (FEMA)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Wetlands & Surface Waterways	USF&WS NWI Maps US Army Corps of Engineers (ACOE)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Signature:  Company: EBI Consulting

Print name: Trevelyn Potter Date: April 5, 2011

**FCC NEPA Summary Report
(47 CFR Subpart I, Chapter I, Sections I.1301-I.1319)**

	Site type (choose one): <input checked="" type="checkbox"/> Raw land <input type="checkbox"/> Tower colo <input type="checkbox"/> Other colo <input type="checkbox"/> Tower Replacement	Site ID: CTNH805A / Amtrak Guilford	Site Address: Moose Hill Road, Guilford, Connecticut
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1. Is the antenna structure located in an officially designated wilderness area?

According to a review of the Land Resources Map (Appendix F) and the Department of Agriculture's list of wilderness areas (<http://www.wilderness.net/index.cfm?fuse=NWPS>), the Project Site is not located in an officially designated wilderness area. In addition, according to EBI's review of available on-line resources, the Project Site is not located in a National Park (www.nps.gov/gis), NPS Interactive Map Center), a designated Scenic and Wild River (<http://www.rivers.gov/wildriverslist.html>), a land area managed by the Bureau of Land Management (www.blm.gov/nhp/facts/index.htm), or within 1 mile of a National Scenic Trail as identified by the National Park Service (http://www.nps.gov/ncrc/programs/nts/nts_trails.html).

2. Is the antenna structure located in an officially designated wildlife preserve?

According to a review of the Land Resources Map (Appendix F), the Project Site is not located in an officially designated wildlife preserve. In addition, according to EBI's review of available on-line resources, the Project Site is not located in a US Fish and Wildlife Service National Wildlife Refuge (<http://www.fws.gov/refuges/refugeLocatorMaps/index.html>).

3. Will the antenna structure likely affect threatened or endangered species or designated critical habitats? (Ref. 50 CFR Part 402)

EBI reviewed the Connecticut Department of Environmental Protection Natural Diversity Data Base (NDDB) map (Appendix G), which represents approximate locations of endangered, threatened and special concern species and significant natural communities in Connecticut. The NDDB maps are intended to be a pre-screening tool to identify potential impacts to state-listed species. Shaded areas on the NDDB maps depict approximate locations of state and federal listed species and significant natural communities. If a project falls within a shaded area, the applicant must submit an Environmental Review Request Form, a map, and a project description to the NDDB for further review.

According to the NDDB Map, the proposed Project Site is located in close proximity to a shaded NDDB area. EBI submitted a review request to the CT NDDB program on December 28, 2009. In correspondence dated January 15, 2010, the NDDB office indicated that "there are historic records for State Endangered *Laterallus jamaicensis* (black rail), State Special Concern *Terrapene carolina carolina* (box turtle), and *Papaipema maritima* (maritime sunflower borer moth) for the vicinity of this project site." In correspondence dated January 28, 2010 the NDDB office stated that "maritime sunflower borer moths occur on the edges of salt marshes and are associated with the host plant *Heliantheous*. Black rails nest along inland tidal creeks and marshes, in salt marshes or salt hay meadows or along edges of sedges or marsh grass flats from May to August. It does not appear from information provided that either of these species will be impacted. Eastern Box Turtles require old field and deciduous forest habitats, which can include power lines and logged woodlands. They are often found near small streams and ponds, the adults are completely terrestrial but the young may be semi-aquatic, and hibernate on land by digging down in the soil from October to April. They have an extremely small home range and can usually be found in the same area year after year. This species is dormant from November 1 to April 1. It has been negatively impacted by the loss of suitable habitat. If this work will negatively impact any Eastern Box Turtle habitat, the Wildlife Division recommends that a herpetologist familiar with the habitat requirements of this reptile conduct surveys during the species active season...the DEP Wildlife Division may recommend that if work must be done during these turtle's active period (April 1 to November 1) that the following precautionary measures should be implemented to protect the turtles, you should work with a herpetologist to prepare a pre- and post construction plan:

- 1) The construction crew be apprised of the species description and possible presence and that the area be searched for turtles each day prior to construction.
- 2) Any turtles encountered during construction be moved out of the way.
- 3) All precautions should be taken to avoid degradation to wetland habitats including any wet meadows and seasonal pools.
- 4) That work be conducted in these habitats during the early morning and evening hours should occur with special care not to harm basking or foraging individuals.
- 5) That no heavy machinery or vehicles be parked in any habitat.”

A herpetological survey to determine the presence of the Eastern Box Turtle at the Project Site was submitted to the CT DEP Wildlife Division on October 1, 2010. This survey concluded that no box turtles or box turtle nests were found, however, the Project Site consists of suitable habitat and the survey recommended that T-Mobile “try to do the majority of excavating and construction during the off season when these animals are not active, October 1st through the end of February. If working during the active period is a must, the area to be impacted should be fenced off using proper silt fencing this will not only keep the soil contained but also help keep any turtles out of harms way.”

In correspondence dated October 26, 2010, the CT DEP Wildlife Division concurred with the conclusions of the survey and reiterated the recommended conditions above.

In addition, EBI submitted a request for review to the United States Fish and Wildlife Service on December 28, 2010. In a letter dated January 25, 2010 the USFWS stated that “based on information currently available to us, no federally-listed or proposed, threatened, or endangered species or critical habitat under the jurisdiction of the U.S. Fish & Wildlife Service are known to occur in the project area(s). Preparation of a Biological Assessment or further consultation with us under section 7 of the Endangered Species Act is not required” (Appendix G).

According to the USFWS’ Interim Guidelines for Recommendations on Communications Tower Siting, Construction, Operation, and Decommissioning (Appendix G), the USFWS recommends that specific design characteristics be implemented in order to mitigate bird tower strikes caused by the construction of telecommunications towers. Inasmuch as the proposed project adheres to these voluntary guidelines, it is unlikely that the proposed telecommunications installation would adversely impact migratory bird species protected under the Migratory Bird Treaty Act and the Endangered Species Act.

4. Will the antenna structure affect districts, sites, buildings, structures, or objects significant in American history, architecture, archeology, engineering, or culture that are listed, or potentially eligible for listing in the National Register of Historic Places (NRHP)? (Ref. 36 CFR Part 800 regulations implementing Section 106 of the National Historic Preservation Act).

EBI reviewed the proposed project plans against the Exclusions of the *Nationwide Programmatic Agreement Regarding the Section 106 National Historic Preservation Act Review Process* (NPA). EBI concluded that the proposed tower construction does not meet any of the Exclusions listed in Section III of the NPA. Therefore, consultation with the Connecticut State Historic Preservation Officer (SHPO) was required.

Based on EBI’s review of files online at the National Register Information System (www.nr.nps.gov), Connecticut SHPO, and the map of Known Cultural Resources provided by Heritage Consultants, LLC, one NHRP-listed Historic District known as the Route 146 Historic District, as well as one NHRP-Historic Property known as Pelatiah Leete House, were identified within the ½-mile Area of Potential Effect (APE) for visual effects of the proposed tower. Nine other NHRP-eligible properties were also identified within the ½-mile APE of the proposed tower (see Appendix D for a full list).

Additionally, EBI Senior Archaeologist Dr. Christine Kimbrough and EBI Staff Archaeologist Vanessa Sullivan performed a Phase I Cultural Resources Survey, including the advancement of 16 shovel test pits. Dr. Kimbrough concluded that “despite its location in an environmental context that would have been attractive for use in the past, all STP’s were negative. Accordingly I recommend that no further archaeological testing be conducted in association with this project.”

EBI submitted project plans, the results of the archaeological survey, and a request for comment on FCC Form 620 to the Connecticut SHPO on April 12, 2010.

In email correspondence dated July 8, 2010, Ms. Susan Chandler of the CT SHPO requested a balloon float in the location of the proposed tower. Additional information and photographs were provided to the CT SHPO by T-Mobile.

In a letter dated February 16, 2011, the CT SHPO stated that “the undertakings will have ‘no adverse effect’ on the Route 146 Historic District, which is listed on the National Register of Historic Places, with the following conditions:

1. The tower will be painted medium gray-brown, to blend with the bark color of adjacent trees, with flush-mounted antennae and will not exceed 110 feet; and,
2. If not in use for six consecutive months, the antennae and equipment shall be removed by the telecommunications facility owner. This removal shall occur within 90 days of the end of such six-month period. Upon removal, the property shall be restored by the facility owner to its historically appropriate appearance and materials.”

5. Will the antenna structure affect Indian religious site(s)

Based on the requirements of the *Nationwide Programmatic Agreement Regarding the Section 106 National Historic Preservation Act Review Process* (NPA), Tribal consultation was required for this project because the proposed tower construction did not meet Exclusions A, B, C or F of the NPA.

EBI submitted documentation regarding the proposed project to the FCC’s Tower Construction Notification System (TCNS). On December 4, 2009 the FCC’s TCNS sent the project information to Tribes listed on their database who have interest in the state in which the project is planned. Additionally, EBI submitted follow-up requests for comment to each of the Tribes indicated by the TCNS to have a potential interest in the area of the project.

Tribal communication to date for this project is summarized in the following table.

#	Tribe Name	Initial Notification (via TCNS)	Response to Initial Contact	Second Contact Attempt	Response to Second Attempt	Third Contact Attempt	Response to Third Attempt	Action Recommended
1	Mashantucket Pequot Tribe	December 4, 2009	Request for Archaeological Survey (December 3, 2009)	March 24, 2010 (via Email)	Accept conclusion; No further interest (March 25, 2010)	NA	NA	No Further Action
2	Narragansett Indian Tribe	December 4, 2009	None	December 18, 2010 (Mail)	None	January 20, 2010 (Overnight Mail)	No Interest (January 22, 2010)	No Further Action

Please note, in the unlikely event that unanticipated Historic Properties, cultural artifacts, archeological deposits, or human remains are inadvertently encountered during the proposed construction and associated excavation activities, *T-Mobile* must halt activities immediately and contact the appropriate tribal governments, local officials and state agencies, in accordance with Federal and State regulations (36 CFR 800.13(b)).

Correspondence between EBI and the Tribes that includes copies of the Tower Construction Notification System emails, follow-up correspondence, and Tribal responses are appended to this *Report* (Appendix E).

6. Will the antenna structure be located in a floodplain? (Ref. Executive Order 11988 and 40 CFR Part 6, Appendix A)

According to the FEMA Flood Insurance Rate Map data for Guildford, Connecticut (Community Map #090077, Panel #0015B) included on the Land Resources Map (Appendix F), the Project Site is not located within a 100-year floodplain. A review of the Flood Insight Flood Zone determination (Appendix I) confirmed that the Project Site is not located within a 100-year floodplain.

7. Will construction of the antenna structure involve significant change in surface features (e.g. wetlands, deforestation, or water diversion)? (Ref. Executive Order 11990 and 40 CFR Part 6, Appendix A)

Based on drawings provided to EBI, the project will require the extension of an existing 18-inch culvert routing an existing stream/wetland area beneath the access road. Therefore, EBI recommends that an Environmental Assessment (EA) be prepared and submitted to the FCC.

According to the Fish and Wildlife Service National Wetlands Inventory (NWI) information, which is included on the Land Resources Map, and client-provided drawings, no additional mapped wetlands are located at the Project Site.

The area proposed to be occupied by T-Mobile consists of open grassland and an existing dirt road. The proposed construction plans do not call for the removal of mature trees; therefore, the proposed installation will not result in deforestation.

8. Is the antenna structure located in a residential neighborhood and required to be equipped with high intensity white lights?

According to client representatives and site plans, the proposed installation will not include high intensity white lights and be located in a residential neighborhood.

9. Will the antenna structure equal or exceed total power (of all channels) of 2000 Watts ERP (3280 EIRP) and have antenna located less than 10 meters above the ground?

An evaluation to determine whether radiofrequency (RF) emissions standards are met was not included as part of this Report. EBI understands that client representatives will evaluate the project to ensure compliance with applicable RF standards.

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Michelle Egan

From: towernotifyinfo@fcc.gov
Sent: Friday, December 04, 2009 3:01 AM
To: Ami Senechal-Anderson
Cc: kim.pristello@fcc.gov; diane.dupert@fcc.gov
Subject: NOTICE OF ORGANIZATION(S) WHICH WERE SENT PROPOSED TOWER CONSTRUCTION NOTIFICATION INFORMATION - Email ID #2363600

Dear Sir or Madam:

Thank you for using the Federal Communications Commission's (FCC) Tower Construction Notification System (TCNS). The purpose of this electronic mail message is to inform you that the following authorized persons were sent the information you provided through TCNS, which relates to your proposed antenna structure. The information was forwarded by the FCC to authorized TCNS users by electronic mail and/or regular mail (letter).

Persons who have received the information that you provided include leaders or their designees of federally-recognized American Indian Tribes, including Alaska Native Villages (collectively "Tribes"), Native Hawaiian Organizations (NHOs), and State Historic Preservation Officers (SHPOs). For your convenience in identifying the referenced Tribes and in making further contacts, the City and State of the Seat of Government for each Tribe and NHO, as well as the designated contact person, is included in the listing below. We note that Tribes may have Section 106 cultural interests in ancestral homelands or other locations that are far removed from their current Seat of Government. Pursuant to the Commission's rules as set forth in the Nationwide Programmatic Agreement for Review of Effects on Historic Properties for Certain Undertakings Approved by the Federal Communications Commission (NPA), all Tribes and NHOs listed below must be afforded a reasonable opportunity to respond to this notification, consistent with the procedures set forth below, unless the proposed construction falls within an exclusion designated by the Tribe or NHO. (NPA, Section IV.F.4).

The information you provided was forwarded to the following Tribes and NHOs who have set their geographic preferences on TCNS. If the information you provided relates to a proposed antenna structure in the State of Alaska, the following list also includes Tribes located in the State of Alaska that have not specified their geographic preferences. For these Tribes and NHOs, if the Tribe or NHO does not respond within a reasonable time, you should make a reasonable effort at follow-up contact, unless the Tribe or NHO has agreed to different procedures (NPA, Section IV.F.5). In the event such a Tribe or NHO does not respond to a follow-up inquiry, or if a substantive or procedural disagreement arises between you and a Tribe or NHO, you must seek guidance from the Commission (NPA, Section IV.G). These procedures are further set forth in the FCC's Declaratory Ruling released on October 6, 2005 (FCC 05-176).

1. THPO Kathleen Knowles - Mashantucket Pequot Tribe - Mashantucket, CT - electronic mail

Details: For every tower construction this Tribe requires a site location map, site plans for every project that will result in ground disturbance, and a detailed description of the proposed site. If the proposed tower construction is on an already existing building, the Tribe would like to be informed of that as well.

2. Cell Tower Coordinator Sequahna Mars - Narragansett Indian Tribe - Wyoming, RI - electronic mail and regular mail

The information you provided was also forwarded to the additional Tribes and NHOs listed below. These Tribes and NHOs have NOT set their geographic preferences on TCNS, and therefore they are currently receiving tower notifications for the entire United States. For these Tribes and NHOs, you are required to use reasonable and good faith efforts to determine if the Tribe or NHO may attach religious and cultural significance to historic

properties that may be affected by its proposed undertaking. Such efforts may include, but are not limited to, seeking information from the relevant SHPO or THPO, Indian Tribes, state agencies, the U.S. Bureau of Indian Affairs, or, where applicable, any federal agency with land holdings within the state (NPA, Section IV.B). If after such reasonable and good faith efforts, you determine that a Tribe or NHO may attach religious and cultural significance to historic properties in the area and the Tribe or NHO does not respond to TCNS notification within a reasonable time, you should make a reasonable effort to follow up, and must seek guidance from the Commission in the event of continued non-response or in the event of a procedural or substantive disagreement. If you determine that the Tribe or NHO is unlikely to attach religious and cultural significance to historic properties within the area, you do not need to take further action unless the Tribe or NHO indicates an interest in the proposed construction or other evidence of potential interest comes to your attention.

None

The information you provided was also forwarded to the following SHPOs in the State in which you propose to construct and neighboring States. The information was provided to these SHPOs as a courtesy for their information and planning. You need make no effort at this time to follow up with any SHPO that does not respond to this notification. Prior to construction, you must provide the SHPO of the State in which you propose to construct (or the Tribal Historic Preservation Officer, if the project will be located on certain Tribal lands), with a Submission Packet pursuant to Section VII.A of the NPA.

3. SHPO John W Shannahan - Connecticut Historical Commission - Hartford, CT - electronic mail

4. SHPO Cara Metz - Massachusetts Historical Commission - Boston, MA - electronic mail

5. Deputy SHPO Brona Simon - Massachusetts Historical Commission - Boston, MA - electronic mail

6. SHPO Frederick C Williamson - Rhode Island Historic Preservation & Heritage Comm - Providence, RI - regular mail

7. Deputy SHPO Edward F Sanderson - Rhode Island Historic Preservation & Heritage Comm - Providence, RI - electronic mail

8. SHPO Karen J Senich - Connecticut Commission on Culture and Tourism - Hartford, CT - electronic mail

If you are proposing to construct a facility in the State of Alaska, you should contact Commission staff for guidance regarding your obligations in the event that Tribes do not respond to this notification within a reasonable time.

Please be advised that the FCC cannot guarantee that the contact(s) listed above opened and reviewed an electronic or regular mail notification. The following information relating to the proposed tower was forwarded to the person(s) listed above:

Notification Received: 11/30/2009
Notification ID: 58485

Tower Owner Individual or Entity Name: T-Mobile USA
Consultant Name: Ami Senechal
Street Address: 21 B Street
City: Burlington
State: MASSACHUSETTS
Zip Code: 01803
Phone: 781-552-9711
Email: asenechal@ebiconsulting.com

Structure Type: UTOWER - Unguyed - Free Standing Tower
Latitude: 41 deg 16 min 2.9 sec N
Longitude: 72 deg 42 min 57.9 sec W
Location Description: Moose Hill Road
City: Guilford
State: CONNECTICUT
County: NEW HAVEN
Ground Elevation: 24.4 meters
Support Structure: 42.7 meters above ground level
Overall Structure: 42.7 meters above ground level
Overall Height AMSL: 67.1 meters above mean sea level

If you have any questions or comments regarding this notice, please contact the FCC using the electronic mail form located on the FCC's website at:

<http://wireless.fcc.gov/outreach/notification/contact-fcc.html>.

You may also call the FCC Support Center at (877) 480-3201 (TTY 717-338-2824). Hours are from 8 a.m. to 7:00 p.m. Eastern Time, Monday through Friday (except Federal holidays). To provide quality service and ensure security, all telephone calls are recorded.

Thank you,
Federal Communications Commission

Trevelyn Potter

Subject: RE: Reply to Proposed Tower Structure (Notification ID: 58485) - Email ID #2444737

-----Original Message-----

From: towernotifyinfo@fcc.gov [mailto:towernotifyinfo@fcc.gov]

Sent: Thursday, March 25, 2010 9:09 AM

To: asenechal@ebiconsulting.com

Cc: tcns.fccarchive@fcc.gov; Knowles, Kathleen

Subject: Reply to Proposed Tower Structure (Notification ID: 58485) - Email ID #2444737

Dear Ami Senechal,

Thank you for using the Federal Communications Commission's (FCC) Tower Construction Notification System (TCNS). The purpose of this email is to inform you that an authorized user of the TCNS has replied to a proposed tower construction notification that you had submitted through the TCNS.

The following message has been sent to you from THPO Kathleen Knowles of the Mashantucket Pequot Tribe in reference to Notification ID #58485:

Dear Ms Senechal,

Regarding Notification ID # 58485, I have reviewed the Phase I Archaeological Survey entitled "CTNH805A/Amtrak Guilford, Moose Hill Road, Guilford, New Haven County, Connecticut 06437, EBI Project No. 61096865," submitted by EBI Consulting. The research design and testing strategy meets acceptable professional standards, and I agree with the recommendations and conclusions. Please keep me informed of any further developments with respect to this project.

Kathleen Knowles, Tribal Historic Preservation Officer
Mashantucket Pequot Tribe

For your convenience, the information you submitted for this notification is detailed below.

Notification Received: 11/30/2009

Notification ID: 58485

Tower Owner Individual or Entity Name: T-Mobile USA

Consultant Name: Ami Ami

Street Address: 21 B Street

City: Burlington

State: MASSACHUSETTS

Zip Code: 01803

Phone: 781-552-9711

Email: asenechal@ebiconsulting.com

Structure Type: UTOWER - Unguyed - Free Standing Tower

Latitude: 41 deg 16 min 2.9 sec N

Longitude: 72 deg 42 min 57.9 sec W

Location Description: Moose Hill Road

City: Guilford

State: CONNECTICUT

County: NEW HAVEN

Ground Elevation: 24.4 meters
Support Structure: 42.7 meters above ground level
Overall Structure: 42.7 meters above ground level
Overall Height AMSL: 67.1 meters above mean sea level

Trevelyn Potter

From: Trevelyn Potter
Sent: Wednesday, March 24, 2010 10:28 AM
To: 'Knowles, Kathleen'
Subject: archaeology report for TCNS ID 58485
Attachments: 61096865 Guilford CT Archaeological Survey.pdf

Kathleen,

Attached please find the archaeology survey report for TCNS ID 58485, a proposed tower on Moose Hill Road in Guilford, Connecticut.

Sincerely,

Trevelyn Potter
Project Scientist

EBI Consulting
21 B Street
Burlington, MA 01803
[Tel:617-715-1832](tel:617-715-1832) Fax: 617-715-6532
tpotter@ebiconsulting.com www.ebiconsulting.com

Michelle Egan

From: towernotifyinfo@fcc.gov
Sent: Thursday, December 03, 2009 10:44 AM
To: Ami Senechal-Anderson
Cc: tcns.fccarchive@fcc.gov; KKnowles@mptn-nsn.gov
Subject: Reply to Proposed Tower Structure (Notification ID: 58485) - Email ID #2365910

Dear Ami Senechal,

Thank you for using the Federal Communications Commission's (FCC) Tower Construction Notification System (TCNS). The purpose of this email is to inform you that an authorized user of the TCNS has replied to a proposed tower construction notification that you had submitted through the TCNS.

The following message has been sent to you from THPO Kathleen Knowles of the Mashantucket Pequot Tribe in reference to Notification ID #58485:

Dear Ms Senechal,
Regarding Notification ID # 58485, after reviewing the information provided, we have no knowledge of properties of religious and cultural importance to the Mashantucket Pequot Tribe. However, we recommend a Phase I Archaeological Reconnaissance Survey be conducted to identify previously unknown properties of cultural and religious importance. We would appreciate a copy of any work performed on this project.
Kathleen Knowles,
Tribal Historic Preservation Officer
Mashantucket Pequot Tribe

For your convenience, the information you submitted for this notification is detailed below.

Notification Received: 11/30/2009
Notification ID: 58485
Tower Owner Individual or Entity Name: T-Mobile USA
Consultant Name: Ami Ami
Street Address: 21 B Street
City: Burlington
State: MASSACHUSETTS
Zip Code: 01803
Phone: 781-552-9711
Email: asenechal@ebiconsulting.com

Structure Type: UTOWER - Unguyed - Free Standing Tower
Latitude: 41 deg 16 min 2.9 sec N
Longitude: 72 deg 42 min 57.9 sec W
Location Description: Moose Hill Road
City: Guilford
State: CONNECTICUT
County: NEW HAVEN
Ground Elevation: 24.4 meters
Support Structure: 42.7 meters above ground level
Overall Structure: 42.7 meters above ground level
Overall Height AMSL: 67.1 meters above mean sea level

Narragansett Indian Tribal Historic Preservation Office
Section 106 Review
Consultation Response Form

TCNS Notification ID Number:	58485
Project ID Number	61096865
Consultant/Environmental Firm:	EBI Consulting
Address or Location Description:	Off Moose Hill Road
City, State:	Guilford, CT
Point of Contact/Initial Submission	Ami Senechal-Anderson

Response:

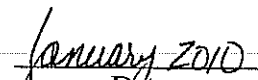
- We have no comments related to the proposed project.
- NITHPO's site examination revealed no indicators of the presence of past tribal cultural resources. On behalf of the Narragansett Indian Tribe, the NITHPO considers this project in compliance with and cleared of the Narragansett Tribe's section 106 concerns. NITHPO anticipates no inadvertent encounters by you or your client with significant intact cultural resources (burials, village sites or ceremonial sites).

- Based on information provided to us the site is not to include any ground disturbance and is therefore found to be in compliance with and cleared of the Narragansett Tribe's section 106 concerns.

- NITHPO's site examination revealed probable indicators of the presence of past tribal cultural resources, and recommends the following actions:

Exception: *If archaeological materials or human remains are encountered during construction, the Narragansett Indian Tribal Historic Preservation Office and applicable Historic Preservation Office(s) will be notified.*


Sequahna Mars, Project Manager, NITHPO


Date

Narragansett Indian Tribal Historic Preservation Office
P.O. Box 350
Wyoming, RI 02898
Email: Sequahna@yahoo.com
Phone: 401-419-2959 Fax: 401-491-9044

EXHIBIT R



JESSE A. LANGER

PLEASE REPLY TO: Bridgeport
E-Mail Address: jlanger@cohenandwolf.com

December 24, 2009

VIA FEDERAL EXPRESS

The Honorable Joseph S. Mazza
First Selectman
Town of Guilford
31 Park Street
Guilford, CT 06437

**Re: Proposed Development of a Telecommunications Facility
Moose Hill Road, Guilford, Connecticut**

Dear Selectman Mazza:

This office represents T-Mobile Northeast LLC, a subsidiary of T-Mobile USA, Inc. d.b.a. T-Mobile ("T-Mobile"). T-Mobile anticipates filing an application for a *Certificate of Environmental Compatibility and Public Need* for the construction, maintenance and operation of a telecommunications facility at Moose Hill Road, Guilford, (the "Site"). Pursuant to Connecticut General Statutes § 16-50(e), please find enclosed a copy of the technical report regarding the Site. The technical report includes information regarding the public need for the facility, the site selection process, and the environmental effects of the facility.

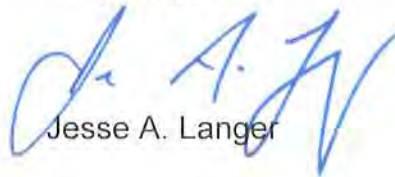
The Town of Guilford (the "Town") may conduct public hearings and meetings as it deems necessary to provide recommendations or comments to T-Mobile concerning the proposed Site. If a hearing or meeting is scheduled, we request notice and would be pleased to provide an informational summary of the proposal. If the Town has any recommendations or comments, it must provide them to us within sixty (60) days of the receipt of this filing.

We would like to meet with you or your designee to review the proposed project and will contact you next week to set up an appointment at your convenience.

The Honorable Joseph S. Mazza
December 24, 2009
Page 2

If you have any questions, please do not hesitate to contact me directly.

Very truly yours,



Jesse A. Langer

JAL:dln
Enclosures (2)

cc: Julie D. Kohler, Esq., (w/encl.)

[This page intentionally left blank]



THE OLD STONE HOUSE

TOWN OF GUILFORD

FIRE DEPARTMENT
390 CHURCH STREET
GUILFORD, CONNECTICUT 06437
SETTLED IN 1639

TELEPHONE: 453-8056
453-8057
FAX: 453-8005

Hans Fiedler
Development Manager
T Mobile
35 Griffin Road
Bloomfield, CT 06002

June 30, 2010

Dear Mr. Fiedler,

The Guilford Fire Department is in strong support of the T Mobile tower that is being proposed to be built in the Moose Hill Road area of Guilford. This tower will provide critical radio coverage for all of the Town of Guilford Public Safety agencies with installation of Town of Guilford Public Safety radio equipment on this proposed tower.

Presently Public Safety radio coverage is seriously lacking in this area. The installation of transmitters and receivers on this proposed tower will provide adequate radio coverage for all of the Guilford Public Safety agencies.

If you require any further information feel free to contact me .

Sincerely

Charles E Herrschaft Jr

Fire Chief
Communication Director
Town of Guilford

From: dmoffat@taccomm.com <dmoffat@taccomm.com>
To: Ray Vergati
Cc: gfd10@snet.net <gfd10@snet.net>
Sent: Tue May 03 15:13:19 2011
Subject: RE: T-Mobile proposed tower - Moose Hill Rd

Ray,

Thank you for your call. As we discussed earlier, we are in the process of finalizing the design for the Town's new system. The change in height for this site from 140-ft down to 110-ft will be suitable for the Town's needs with the following.

1. Receive antenna (omni) top of tower
2. (2) Transmit antennas (offset) at approximately 100-ft AGL (west side)
3. Microwave antenna @ approximately 100-ft AGL (east side)

As soon as you have confirmation that these locations are available to us, I will complete the engineering for the site and provide you with detailed information about the equipment that is proposed.

If you have any additional questions, please feel free to contact me.

Dave

David Moffat
Tactical Communications, Inc.
29 Soundview Road
Guilford, CT 06437
203.453.2389
800.933.0313 Toll Free
203.458.9247 Fax
dmoffat@taccomm.com
www.taccomm.com

From: Ray Vergati [mailto:rvergati@hpcdevelop.com]
Sent: Tuesday, May 03, 2011 2:43 PM
To: dmoffat@taccomm.com
Subject: T-Mobile proposed tower - Moose Hill Rd
Importance: High

Dave,

Following up on our conversation regarding the proposed T-Mobile tower to be located at Moose Hill Road, Guilford, CT (N41-16-0.2888/W-72-42-57.81).

Our initial proposed height was 140' but we have now revised the height down to 110'. T-Mobile is proposing to install their antennas at a center line of 107'.

You expressed that the town would still be interested in locating emergency equipment at the tower given the new height, possibly around 100' for transmit antennas and going off the very top of the tower for receive antennas.

Kindly respond to this email as soon as possible so we can confirm the town's needs and determine space availability.

Regards,

Ray

Raymond Vergati
Vice President of Operations, New England
HPC Development, LLC
12 Maltby Lane
Northford, CT 06472
Cell: (203) 605-9646
Fax: (203) 797-1137
Email: rvergati@hpcdevelop.com
www.hpcdevelop.com

CONFIDENTIALITY NOTICE:

This message originates from the firm of HPC Development LLC. The information contained in this e-mail and any files transmitted with it may be a confidential communication or may otherwise be privileged and confidential and part of the work product doctrine. If the reader of this message, regardless of the address or routing, is not an intended recipient, you are hereby notified that you have received this transmittal in error and any review, use, distribution, dissemination or copying is strictly prohibited. If you have received this message in error, please delete this e-mail and all files transmitted with it from your system and immediately notify HPC Development LLC by sending a reply e-mail to the sender of this message. Thank you.

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Langer, Jesse A.

From: Langer, Jesse A.
Sent: Thursday, September 09, 2010 10:56 AM
To: 'Did yo'
Subject: RE: Proposed Telecommunications Facility at Moose Hill Road, Guilford

Thank you, Karyl.

From: Did yo [mailto:karylleehall1@aol.com]
Sent: Thursday, September 09, 2010 10:47 AM
To: Langer, Jesse A.
Subject: Fwd: Proposed Telecommunications Facility at Moose Hill Road, Guilford

FYI. Karyl Lee

-----Original Message-----

From: sagirioni <sagirioni@aol.com>
To: Did yo <karylleehall1@aol.com>
Sent: Thu, Sep 9, 2010 10:33 am
Subject: Re: Proposed Telecommunications Facility at Moose Hill Road, Guilford

we have town hall meeting room at 9 on the 23 . sg

In a message dated 09/08/10 14:26:51 Eastern Daylight Time, karylleehall1 writes:

Another confirmation. KL

-----Original Message-----

From: Langer, Jesse A. <jlanger@cohenandwolf.com>
To: Did yo <karylleehall1@aol.com>
Sent: Wed, Sep 8, 2010 11:01 am
Subject: RE: Proposed Telecommunications Facility at Moose Hill Road, Guilford

Karyl:

We are available on September 23, 2010, at 9:00a.m. at the Guilford Town Hall.

Regards,

Jesse

From: Did yo [mailto:karylleehall1@aol.com]
Sent: Wednesday, September 08, 2010 10:04 AM
To: Langer, Jesse A.
Subject: Re: Proposed Telecommunications Facility at Moose Hill Road, Guilford

How about the 23rd of September at 9 at the Guilford Town Hall? Karyl Lee Hall

-----Original Message-----

From: Langer, Jesse A. <jlanger@cohenandwolf.com>
To: Did yo <karylleehall1@aol.com>
Sent: Tue, Sep 7, 2010 8:29 am
Subject: RE: Proposed Telecommunications Facility at Moose Hill Road, Guilford

Karyl:

Unfortunately, we will have to reschedule our meeting. The 9th conflicts with Rosh Hashanah. I apologize for the oversight. Are there any other dates that work for you?

Jesse

From: Did yo [<mailto:karylleehall1@aol.com>]
Sent: Sunday, September 05, 2010 4:18 PM
To: Langer, Jesse A.
Subject: Fwd: Proposed Telecommunications Facility at Moose Hill Road, Guilford

FYI. Karyl lee Hall

-----Original Message-----

From: sagirioni <sagirioni@aol.com>
To: Did yo <karylleehall1@aol.com>
Sent: Sun, Sep 5, 2010 11:25 am
Subject: Re: Proposed Telecommunications Facility at Moose Hill Road, Guilford

9 of sept is ok . i will try to get room at town hall at 1 30 . sg

In a message dated 09/02/10 11:43:56 Eastern Daylight Time, karylleehall1 writes:

Could you meet at 1:30? Can we meet in the Guilford Town Hall or should I try to get something in Branford? KL

-----Original Message-----

From: Langer, Jesse A. <jlanger@cohenandwolf.com>
To: karylleehall1@aol.com <karylleehall1@aol.com>
Sent: Thu, Sep 2, 2010 10:27 am
Subject: RE: Proposed Telecommunications Facility at Moose Hill Road, Guilford

Karyl:

Good morning. We are available on September 9th, during the morning and early afternoon.

Regards,

Jesse

From: karylleehall1@aol.com [<mailto:karylleehall1@aol.com>]
Sent: Tuesday, August 31, 2010 3:09 PM
To: Langer, Jesse A.
Subject: Re: Proposed Telecommunications Facility at Moose Hill Road, Guilford

Dear Attorney Langer, Shirley Girioni has just returned from Boston. We have agreed that the 9th and the 15th are two available dates for you to meet with us and some members of the Scenic Roads

Committee. Let me know which date suits you as soon as possible. First thing in the morning or late in the day is best for me. Karyl Lee Hall

-----Original Message-----

From: Langer, Jesse A. <jlanger@cohenandwolf.com>

To: karylleehall1@aol.com <karylleehall1@aol.com>

Cc: sagirioni@aol.com <sagirioni@aol.com>

Sent: Tue, Aug 24, 2010 11:19 am

Subject: FW: Proposed Telecommunications Facility at Moose Hill Road, Guilford

Karyl:

I am sending this email again as I neglected to add Shirley to the original email. My apologies.

If you have had the occasion to review the technical report (you should have also received a hard copy), I would be happy to discuss the matter further if you wish.

Regards,

Jesse Langer

From: Langer, Jesse A.

Sent: Wednesday, August 18, 2010 4:11 PM

To: karylleehall1@aol.com

Subject: Proposed Telecommunications Facility at Moose Hill Road, Guilford

Karyl:

Per our telephone conversation, I have attached the technical report T-Mobile submitted to the Town of Guilford in accordance with its statutory obligations. I will send you a hard copy as well. As I mentioned during our call, the technical report is a component of the municipal consultation required by statute. T-Mobile has yet to file its application with the Connecticut Siting Council. Additionally, you will note that the technical report includes some of the consultants involved in the environmental assessment. Finally, as we discussed, I am copying Shirley Girioni on this email.

Please do not hesitate to contact me with any questions.

Regards,

Jesse Langer

Jesse A. Langer

Cohen and Wolf, P.C.

1115 Broad Street

Bridgeport, CT 06604

Tel: (203) 368-0211

Fax: (203) 337-5593

jlanger@cohenandwolf.com

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Langer, Jesse A.

From: karylleehall1@aol.com
Sent: Sunday, September 26, 2010 7:57 AM
To: Langer, Jesse A.
Subject: Re: Proposed Telecommunications Facility at Moose Hill Road, Guilford

Thanks Jesse. KLH

-----Original Message-----

From: Langer, Jesse A. <jlanger@cohenandwolf.com>
To: karylleehall1@aol.com <karylleehall1@aol.com>
Sent: Fri, Sep 24, 2010 9:28 am
Subject: FW: Proposed Telecommunications Facility at Moose Hill Road, Guilford

Karyl:

I've attached the technical report T-Mobile filed with the Town to initiate the municipal consultation period. I sent the technical report to you earlier this summer (please see email below). You should also have received a hard copy via the mail.

Regards,

Jesse Langer

From: Langer, Jesse A.
Sent: Tuesday, August 24, 2010 11:20 AM
To: karylleehall1@aol.com
Cc: 'sagirioni@aol.com'
Subject: FW: Proposed Telecommunications Facility at Moose Hill Road, Guilford

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Jesse A. Langer
Cohen and Wolf, P.C.
1115 Broad Street
Bridgeport, CT 06604
Tel: (203) 368-0211
Fax: (203) 337-5593
jlanger@cohenandwolf.com

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Langer, Jesse A.

From: Langer, Jesse A.
Sent: Monday, September 27, 2010 10:44 AM
To: 'karylleehall1@aol.com'
Subject: RE: Proposed Telecommunications Facility at Moose Hill Road, Guilford
Attachments: 20100927094848956.pdf

Karyl:

You're welcome.

I have also attached the photo-simulations of the balloon float pertaining to Leetes Island Road.

Jesse

From: karylleehall1@aol.com [mailto:karylleehall1@aol.com]
Sent: Sunday, September 26, 2010 7:57 AM
To: Langer, Jesse A.
Subject: Re: Proposed Telecommunications Facility at Moose Hill Road, Guilford

Thanks Jesse. KLH

-----Original Message-----

From: Langer, Jesse A. <jlanger@cohenandwolf.com>
To: karylleehall1@aol.com <karylleehall1@aol.com>
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Cohen and Wolf, P.C.
1115 Broad Street
Bridgeport, CT 06604
Tel: (203) 368-0211
Fax: (203) 337-5593
jlanger@cohenandwolf.com

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Langer, Jesse A.

From: karyleehall1@aol.com
Sent: Tuesday, October 19, 2010 3:15 PM
To: Langer, Jesse A.
Subject: Re: Proposed Telecommunications Facility at Moose Hill Road, Guilford

Congratulations on the big event! I have no questions or comments at the moment but it's nice to know you are back in the fray. Karyl Lee Hall

-----Original Message-----

From: Langer, Jesse A. <jlanger@cohenandwolf.com>
To: karyleehall1 <karyleehall1@aol.com>
Sent: Tue, Oct 19, 2010 2:14 pm
Subject: RE: Proposed Telecommunications Facility at Moose Hill Road, Guilford

Karyl:

Good afternoon. I apologize for the late reply; however I have a good excuse: I was on my honeymoon. I understand that you communicated with Julie Kohler and she responded to your questions. If you have any additional questions, feel free to contact me. I am (unfortunately) back at work.

Regards,

Jesse Langer

From: karyleehall1@aol.com [<mailto:karyleehall1@aol.com>]
Sent: Friday, October 01, 2010 6:01 PM
To: Langer, Jesse A.
Subject: Re: Proposed Telecommunications Facility at Moose Hill Road, Guilford

Hello Jesse,

The Town just received a copy of the application for the Pine Orchard Road site dated September 30. I have a copy dated September 11. What is the difference between the two? I would appreciate it if you could send me a copy of the later version to my address at P.O. Box 3072, Branford, CT 06405. Is this a revised application? Karyl Lee

-----Original Message-----

From: Langer, Jesse A. <jlanger@cohenandwolf.com>
To: karyleehall1@aol.com <karyleehall1@aol.com>
Sent: Wed, Aug 18, 2010 4:10 pm
Subject: Proposed Telecommunications Facility at Moose Hill Road, Guilford

Karyl:

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Jesse A. Langer
Cohen and Wolf, P.C.
1115 Broad Street
Bridgeport, CT 06604
Tel: (203) 368-0211
Fax: (203) 337-5593
jlanger@cohenandwolf.com

Langer, Jesse A.

From: karylleehall1@aol.com
Sent: Tuesday, October 19, 2010 3:16 PM
To: Langer, Jesse A.
Subject: Re: Proposed Telecommunications Facility at Moose Hill Road, Guilford

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Fax: (203) 337-5593
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Langer, Jesse A.

From: Langer, Jesse A.
Sent: Friday, October 29, 2010 11:52 AM
To: 'karylleehall1@aol.com'
Subject: RE: Proposed Telecommunications Facility at Moose Hill Road, Guilford

Karyl:

Good morning. When you have a moment, I would like to speak to you about the proposed facility at Moose Hill Road. I left you a voicemail message and thought I would send you an email as well.

Regards,

Jesse

From: karylleehall1@aol.com [mailto:karylleehall1@aol.com]
Sent: Tuesday, October 19, 2010 3:19 PM
To: Langer, Jesse A.
Subject: Re: Proposed Telecommunications Facility at Moose Hill Road, Guilford

Hi Jesse,

Congratulations on the Big Event. I have no questions or comments at the moment but it is nice to know you are back in the fray. Karyl Lee Hall

-----Original Message-----

From: Langer, Jesse A. <jlanger@cohenandwolf.com>
To: karylleehall1 <karylleehall1@aol.com>
Sent: Tue, Oct 19, 2010 2:14 pm
Subject: RE: Proposed Telecommunications Facility at Moose Hill Road, Guilford

Karyl:

Good afternoon. I apologize for the late reply; however I have a good excuse: I was on my honeymoon. I understand that you communicated with Julie Kohler and she responded to your questions. If you have any additional questions, feel free to contact me. I am (unfortunately) back at work.

Regards,

Jesse Langer

From: karylleehall1@aol.com [mailto:karylleehall1@aol.com]
Sent: Friday, October 01, 2010 6:01 PM
To: Langer, Jesse A.
Subject: Re: Proposed Telecommunications Facility at Moose Hill Road, Guilford

Hello Jesse,

The Town just received a copy of the application for the Pine Orchard Road site dated September 30. I have a copy dated September 11. What is the difference between the two? I would appreciate it if you could send me a copy of the later version to my address at P.O. Box 3072, Branford, CT 06405. Is this a revised application? Karyl Lee

-----Original Message-----

From: Langer, Jesse A. <jlanger@cohenandwolf.com>

To: karylleehall1@aol.com <karylleehall1@aol.com>

Sent: Wed, Aug 18, 2010 4:10 pm

Subject: Proposed Telecommunications Facility at Moose Hill Road, Guilford

Karyl:

Per our telephone conversation, I have attached the technical report T-Mobile submitted to the Town of Guilford in accordance with its statutory obligations. I will send you a hard copy as well. As I mentioned during our call, the technical report is a component of the municipal consultation required by statute. T-Mobile has yet to file its application with the Connecticut Siting Council. Additionally, you will note that the technical report includes some of the consultants involved in the environmental assessment. Finally, as we discussed, I am copying Shirley Girioni on this email.

Please do not hesitate to contact me with any questions.

Regards,

Jesse Langer

Jesse A. Langer
Cohen and Wolf, P.C.
1115 Broad Street
Bridgeport, CT 06604
Tel: (203) 368-0211
Fax: (203) 337-5593
jlanger@cohenandwolf.com

From: Langer, Jesse A.
Sent: Friday, November 12, 2010 12:46 PM
To: 'karylleehall1@aol.com'
Subject: Proposed Telecommunications Facility at Moose Hill Road, Guilford

Karyl:

Per our telephone conversation, I have attached some photo-simulations of the proposed telecommunications facility at 110 feet. You will note that the photos with the balloon are at the initial proposed height of 140 feet. The simulations are at 110 feet.

As we discussed, T-Mobile would be able to reduce the height of the facility should the Medlyn Farm site become operational. The height would depend largely on the height of the Medlyn Farm site, as approved and constructed, and the location of T-Mobile's antennas on the Medlyn Farm site, as approved and constructed.

Additionally, as we discussed, T-Mobile would file its application with the initial proposed height of 140 feet. The Siting Council must know what height T-Mobile would require to meet the coverage objective should (1) the Council deny the application for the Medlyn Farm site or (2) Verizon not construct the Medlyn Farm site.

Kindly copy me on (or forward to me) the Scenic Road Committee's correspondence to SHPO regarding T-Mobile's proposed Facility.

Feel free to contact me with any questions.

Regards,

Jesse

Jesse A. Langer
Cohen and Wolf, P.C.
1115 Broad Street
Bridgeport, CT 06604
Tel: (203) 368-0211
Fax: (203) 337-5593
jlanger@cohenandwolf.com

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Photosim for conceptual purposes only - actual antenna & equipment locations to be determined based on final engineering design



VIEW 5 - EXISTING VIEW FROM
LEETES ISLAND ROAD LOOKING WEST
TOWARDS SITE

T-MOBILE NORTHEAST LLC

35 GRIFFIN ROAD
BLOOMFIELD, CT 06002

DATE: NOV 2010

SITE: AMTRAK
GUILFORD



Photosim for conceptual purposes only - actual antenna & equipment locations to be determined based on final engineering design



VIEW 5 - PROPOSED VIEW FROM
LEETES ISLAND ROAD LOOKING WEST
TOWARDS SITE
(110' TOWER)

T-MOBILE NORTHEAST LLC

35 GRIFFIN ROAD
BLOOMFIELD, CT 06002

DATE: NOV 2010

SITE: AMTRAK
GUILFORD



Photosim for conceptual purposes only - actual antenna & equipment locations to be determined based on final engineering design



VIEW 14 - EXISTING VIEW FROM
LEETES ISLAND ROAD LOOKING
NORTHEAST TOWARDS SITE

T-MOBILE NORTHEAST LLC

35 GRIFFIN ROAD
BLOOMFIELD, CT 06002

DATE: NOV 2010

SITE: AMTRAK
GUILFORD



Photosim for conceptual purposes only - actual antenna & equipment locations to be determined based on final engineering design



VIEW 14 - PROPOSED VIEW FROM
LEETES ISLAND ROAD LOOKING
NORTHEAST TOWARDS SITE
(SEASONAL VISIBILITY - 110' TOWER)

T-MOBILE NORTHEAST LLC

35 GRIFFIN ROAD
BLOOMFIELD, CT 06002

DATE: NOV 2010

SITE: AMTRAK
GUILFORD



Photosim for conceptual purposes only - actual antenna & equipment locations to be determined based on final engineering design



VIEW 15 - EXISTING VIEW FROM
LEETES ISLAND ROAD LOOKING WEST
TOWARDS SITE

T-MOBILE NORTHEAST LLC

35 GRIFFIN ROAD
BLOOMFIELD, CT 06002

DATE: NOV 2010

SITE: AMTRAK
GUILFORD



Photosim for conceptual purposes only - actual antenna & equipment locations to be determined based on final engineering design



VIEW 15 - PROPOSED VIEW FROM
LEETES ISLAND ROAD LOOKING WEST
TOWARDS SITE
(SEASONAL VISIBILITY - 110' TOWER)

T-MOBILE NORTHEAST LLC

35 GRIFFIN ROAD
BLOOMFIELD, CT 06002

DATE: NOV 2010

SITE: AMTRAK
GUILFORD



Photosim for conceptual purposes only - actual antenna & equipment locations to be determined based on final engineering design



VIEW 16 - NON-VISIBLE VIEW FROM
LEETES ISLAND ROAD LOOKING WEST
TOWARDS SITE
(110' TOWER)

T-MOBILE NORTHEAST LLC

35 GRIFFIN ROAD
BLOOMFIELD, CT 06002

DATE: NOV 2010

SITE: AMTRAK
GUILFORD

Langer, Jesse A.

From: Langer, Jesse A.
Sent: Monday, November 22, 2010 3:33 PM
To: karylleehall1@aol.com
Subject: Proposed Telecommunications Facility at Moose Hill Road, Guilford

Karyl:

Good afternoon.

Have you had the opportunity to respond to the SHPO regarding the proposed facility on behalf of the Scenic Roads Committee? If so, kindly forward a copy to my attention.

Thank you,

Jesse

Jesse A. Langer
Cohen and Wolf, P.C.
1115 Broad Street
Bridgeport, CT 06604
Tel: (203) 368-0211
Fax: (203) 337-5593
jlanger@cohenandwolf.com

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Langer, Jesse A.

From: Langer, Jesse A.
Sent: Tuesday, November 23, 2010 9:46 AM
To: 'Karyl Lee Hall'
Subject: RE: Leetes Farm Cell Tower

Karyl:

Good morning.

Thank you for the copy.

Jesse

From: Karyl Lee Hall [mailto:klhall@clrp.org]
Sent: Tuesday, November 23, 2010 9:43 AM
To: Susan.Chandler@ct.gov
Cc: Langer, Jesse A.
Subject: Leetes Farm Cell Tower

Dear Ms Chandler,

I am the co-chairman of the Scenic Roads Committee for Routes 146 and 77. As you may know, the Committee has been considering what, if any effect, the tower proposed for the Leetes Farm property off Moose Hill Road would have on the scenic aspects of Route 146. We have been in touch with T-Mobile's counsel and other representatives of the company. We have reviewed simulations of the tower at both 140 and 110 feet. As a general matter, the Scenic Roads Committee's major concern is with the height of the tower. We believe that it is unfortunate that it can be seen at all. But, as a practical matter, the shorter the tower, the less it can be seen and the better it is, from our perspective. In summary, the 110' tower is preferable. But I am also concerned, as are the committee members, with the configuration of the tower. If there have been efforts to make the design a stealth design, I am not remembering them. I am hoping that T-Mobile might consider flush mounting of the antennas as a step in that direction. T-Mobile has been quite cooperative about responding to our concerns and in appreciation of that fact, I am ccing Jesse Langer, T-Mobile's counsel, on this message.

Please feel free to call my if you have any questions (203-996-4719). I would be grateful if you would let me know what the outcome of your analysis of the tower application.

Yours,

Karyl Lee Hall

[This page intentionally left blank]

Langer, Jesse A.

From: Sarah Williams <sarah7williams@gmail.com>
Sent: Wednesday, June 30, 2010 4:40 PM
To: Langer, Jesse A.
Subject: Re: Proposed Telecommunications Facility at Moose Hill Rd., Guilford

Thanks.
Sarah

On Jun 30, 2010, at 3:16 PM, "Langer, Jesse A." <jlanger@cohenandwolf.com> wrote:

Sarah:

Good afternoon.

We are coordinating a balloon float. I'll provide more details as soon as they are available.

Jesse

Jesse A. Langer
Cohen and Wolf, P.C.
1115 Broad Street
Bridgeport, CT 06604
Tel: (203) 368-0211
Fax: (203) 337-5593
jlanger@cohenandwolf.com

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From: Sarah Williams [mailto:sarah7williams@gmail.com]
Sent: Friday, June 25, 2010 8:58 PM
To: Langer, Jesse A.
Cc: Fiedler, Hans; Ray Vergati; Steve Besse; pauljproulx@comcast.net
Subject: Re: Proposed Telecommunications Facility at Moose Hill Rd., Guilford

Thank you, Jesse. We'll look forward to hearing when the balloon will go up.

Sarah

On Fri, Jun 25, 2010 at 2:43 PM, Langer, Jesse A. <jlanger@cohenandwolf.com> wrote:

Sarah:

Good afternoon. I write to follow-up our meeting of two weeks ago. T-Mobile's visual experts have already walked the trails and assessed the potential visibility of the proposed telecommunications facility on the Westwoods Trails. According to those experts, there would be very little visibility along the trails. Please see the attached photo-simulations produced in connection with the visibility analysis. The photographs were taken in January, during leaf-off conditions. Please note that we do not have a photograph of one of the locations you highlighted on the map during our meeting.

Please let me know if you have any questions.

Regards,

Jesse Langer

Jesse A. Langer

Cohen and Wolf, P.C.

1115 Broad Street

Bridgeport, CT 06604

Tel: (203) 368-0211

Fax: (203) 337-5593

jlanger@cohenandwolf.com

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immediately by e-mail, or by telephone (203-368-0211), discard any paper copies and delete all electronic files of the message.

Langer, Jesse A.

From: Sarah Williams <sarah7williams@gmail.com>
Sent: Wednesday, July 14, 2010 12:44 PM
To: Fiedler, Hans
Cc: Fiedler, Hans; Langer, Jesse A.
Subject: Re: Proposed Telecommunications Facility at Moose Hill Rd., Guilford

Yes, Hans. My reply said that weekends are best as many of us work outside of Guilford. A weekday late afternoon/evening might also allow some to see it before the sub goes down. Thanks. Keep us posted.

Sarah

On Jul 14, 2010, at 12:32 PM, "Fiedler, Hans" <Hans.Fiedler@T-Mobile.com> wrote:

Afternoon Sarah,

Just checking if you had time to review my email below.

Thank you.

Hans Fiedler
Development Manager

T-Mobile
35 Griffin Road
Bloomfield, CT 06002
Office 860-692-7123
Mobile: 860-436-0333

From: Fiedler, Hans
Sent: Thursday, July 08, 2010 8:26 AM
To: 'Sarah Williams'
Cc: Langer, Jesse A.
Subject: RE: Proposed Telecommunications Facility at Moose Hill Rd., Guilford

Good Morning Sarah,

Quick question regarding the Balloon float, do you have a preference of Morning or Afternoon.

We will look at the forthcoming Weather and try to pick a day that will be favorable to a Balloon float.

Thanks,

Hans Fiedler
Development Manager

·T· · Mobile·
35 Griffin Road
Bloomfield, CT 06002
Office 860-692-7123
Mobile: 860-436-0333

From: Sarah Williams [mailto:sarah7williams@gmail.com]
Sent: Friday, June 25, 2010 8:58 PM
To: Langer, Jesse A.
Cc: Fiedler, Hans; Ray Vergati; Steve Besse; pauljproulx@comcast.net
Subject: Re: Proposed Telecommunications Facility at Moose Hill Rd., Guilford

Thank you, Jesse. We'll look forward to hearing when the balloon will go up.

Sarah

On Fri, Jun 25, 2010 at 2:43 PM, Langer, Jesse A. <jlanger@cohenandwolf.com> wrote:

Sarah:

Good afternoon. I write to follow-up our meeting of two weeks ago. T-Mobile's visual experts have already walked the trails and assessed the potential visibility of the proposed telecommunications facility on the Westwoods Trails. According to those experts, there would be very little visibility along the trails. Please see the attached photo-simulations produced in connection with the visibility analysis. The photographs were taken in January, during leaf-off conditions. Please note that we do not have a photograph of one of the locations you highlighted on the map during our meeting.

Please let me know if you have any questions.

Regards,

Jesse Langer

Jesse A. Langer

Cohen and Wolf, P.C.

1115 Broad Street

Bridgeport, CT 06604

Tel: (203) 368-0211

Fax: (203) 337-5593

jlanger@cohenandwolf.com

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Langer, Jesse A.

From: Jerry Turk <jerry@powerphone.com>
Sent: Monday, July 26, 2010 3:53 PM
To: Fiedler, Hans
Cc: Sarah Williams; Langer, Jesse A.; Ray Vergati; Jamie Ford; Scott M. Chasse
Subject: RE: T-Mobile Proposed Moose Hill Road - Balloon Float.

Hi Hans,

Thank you for the images and rescheduling the re-launch tomorrow.

Regards,

Jerry

From: Fiedler, Hans [mailto:Hans.Fiedler@T-Mobile.com]
Sent: Monday, July 26, 2010 3:43 PM
To: Jerry Turk
Cc: Sarah Williams; Langer, Jesse A.; Ray Vergati; Jamie Ford; Scott M. Chasse
Subject: T-Mobile Proposed Moose Hill Road - Balloon Float.

Afternoon Jerry,

Ray Vergati and I had an opportunity to walk the trails this morning along Lost Lake. We were pleased to find that the Balloon was not visible from the locations that we had discussed with Sarah.

I have attached some photos that we had taken.

I will not be able to attend tomorrows float however Ray and Jesse will be there,

Feel free to call with any questions.

Thank you.

Hans Fiedler
Development Manager
·T· · · Mobile·
35 Griffin Road
Bloomfield, CT 06002
Office 860-692-7123
Mobile: 860-436-0333

EXHIBIT S

FAA Aeronautical Evaluation

AMTRAK Guilford
CTNH805A

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For more information contact:
faa@sitesafe.com
770.532.3255 phone
703.276.1169 fax



**SITE SPECIFIC EVALUATION
FOR**

Client Site Name: AMTRAK Guilford
Client Site Number: CTNH805A
Client Site Location: Guilford, CT.

Client/Requestor Name: Jamie Ford
Company Name: T-Mobile
Address: 35 Griffin Rd, S.
Address: Bloomfield, CT. 06002

Date: 4/8/11

This is an evaluation based on application of surfaces identified in Federal Aviation Regulation (FAR) Part 77 and Federal Communication Commission (FCC) Rules Part 17.

EXECUTIVE SUMMARY OF FINDINGS

- **The maximum height that can be built at this site without notice to the FAA is 200 feet AGL or 252 feet AMSL.**
- Maximum No Extended Study height at this site is 348 AGL, or 400 AMSL.
- Maximum No Hazard height at this site is 348 AGL, or 400 AMSL.
- Maximum no marking and lighting height at this site is 200 AGL, or 252 AMSL.

SITE DATA SUBMITTED FOR STUDY

Type of Structure:	Antenna
Coordinates of site:	Lat: 41° 16' 2.88"
	Long: 72° 42' 57.81"
	Datum: NAD 83
Site Ground Elevation:	52
Total Height above the ground of the entire structure (AGL):	110
Overall height of structure above mean sea level (AMSL):	162

Note: This report is for planning purposes only. If notification to the FAA or FCC is submitted on a site (whether it is, or is not required), a determination of no hazard or an approval letter should be received prior to any actions taken at this site.

AIRPORT AND HELIPAD INFORMATION

Nearest public use or Government Use (DOD) facility is Tweed-New Haven.

This structure would be located 7.7 NM or 46925 FT from the airport on a bearing of 268 degrees true to the airport.

Nearest private use facility is North Branford.

This structure would be located 5.2 NM from the helipad on a bearing of 320 degrees true to the helipad.

FINDINGS

AM Facilities:

(The FCC protects AM transmission stations from possible electro magnetic interference for a distance of 1.9 statute miles(SM) for directional facilities, and .6 statute miles(SM) for non-directional facilities. Any antenna structures within these distances will most likely require a detuning evaluation of the site) (Sitesafe offers a full range of detuning services)

For a free analysis of this site against the most current FCC data, go to our AM evaluation web site at <http://sitesafe.com>. A negative certificate can be generated, (on-line) if no conflict is found. If a conflict is found, our AM Detune department will contact you to discuss the findings.

This site was evaluated against the FCC's AM antenna database, and is not within an AM transmission area.

FCC Notice Requirements:

(FCC Rules, Part 17)

This structure does not require notification to the FAA or FCC based on these rules.

FAA EMI:

(The FAA protects certain air navigational aids and radio transmitters from possible electro-magnetic interference. The distance and direction are dependent on the type of facility be evaluated. Most of these transmission and receiver facilities are listed in the National Flight Data Center (NFDC) database.)

This site would not affect any FAA air navigational aids or transmitters listed in the NFDC database.

Military Airspace:

This structure will not affect this airspace.

Note: This report is for planning purposes only. If notification to the FAA or FCC is submitted on a site (whether it is, or is not required), a determination of no hazard or an approval letter should be received prior to any actions taken at this site.

FAA Evaluation:

FAR Part 77 paragraph 13 (FAR 77.13). Construction or Alteration requiring notice:
(These are the imaginary surfaces that the FAA has implemented to provide general criteria for notification purposes only.)

This structure does not require notification to the FAA.

FAR Part 77 paragraph 23 (FAR 77.23). Standards for Determining Obstructions:
(These are the imaginary surfaces that the FAA has implemented to protect aircraft safety. If any of these surfaces are penetrated, the structure may pose a Hazard to Air Navigation.)

This structure does not exceed these surfaces.

MARKING AND LIGHTING

FAA Advisory Circular 70/7460-1

Marking and lighting is not required for this structure.

RECOMMENDATIONS OR ACTIONS

Sitesafe does not consider this site to be a hazard to air navigation as specified in FAR part 77.

FAA Form 7460-1 accomplished.

State notification accomplished.

Note: This report is for planning purposes only. If notification to the FAA or FCC is submitted on a site (whether it is, or is not required), a determination of no hazard or an approval letter should be received prior to any actions taken at this site.



**AMTRAK Guilford
CTNH805A**

**41° 16' 02.88\" N
72° 42' 57.81\" W**

Published by the Geological Survey
and Connecticut Geodetic Survey
Methods from aerial photographs
4. Revised from aerial
1:25,000