STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

IN RE:
APPLICATION OF NEW CINGULAR WIRELESS PCS, LLC (AT&T) FOR A CERTIFICATE OF ENVIRONMENTAL COMPATIBILITY AND PUBLIC NEED FOR THE CONSTRUCTION, MAINTENANCE AND OPERATION OF A TELECOMMUNICATIONS TOWER FACILITY AT 27 GUNGY ROAD / 322 BEAVER BROOK ROAD IN THE TOWN OF LYME

DOCKET NO._____

MAY 11, 2009

APPLICATION FOR CERTIFICATE OF ENVIRONMENTAL COMPATIBILITY AND PUBLIC NEED

New Cingular Wireless PCS, LLC ("AT&T")
500 Enterprise Drive
Rocky Hill, Connecticut 06067

TABLE OF CONTENTS **Page**

LIST OF ATTACHMENTS

1. Statement of RF Need with Coverage Plots
2. Site Search Summary
3. Description and Design of Proposed Facility
4. Visual Analysis Report
5. FCC/NEPA Environmental Compliance Report and Correspondence
6. Relevant Correspondence with the Town of Lyme[1]
7. Correspondence with State Agencies
8. Certification of Service on Governmental Officials including List of Officials Served
9. Affidavit of publication of legal notice published in the The Day; Notice to Abutting Landowners; Certification of Service; List of Abutting Landowners
10. Connecticut Siting Council Application Guide

[1] A Copy of the Technical Report submitted to the Town is included in the Bulk Filing

STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

IN RE:
APPLICATION OF NEW CINGULAR WIRELESS PCS, LLC (AT&T) FOR A CERTIFICATE OF ENVIRONMENTAL COMPATIBILITY AND PUBLIC NEED FOR THE CONSTRUCTION, MAINTENANCE AND OPERATION OF A TELECOMMUNICATIONS TOWER FACILITY AT 27 GUNGY ROAD / 322 BEAVER BROOK ROAD IN THE TOWN OF LYME

DOCKET NO._____

MAY 11, 2009

APPLICATION FOR CERTIFICATE OF ENVIRONMENTAL COMPATIBILITY AND PUBLIC NEED

I. Introduction

A. Purpose and Authority

Pursuant to Chapter 277a, Sections 16-50g et seq. of the Connecticut General Statutes ("CGS"), as amended, and Sections 16-50j-1 et seq. of the Regulations of Connecticut State Agencies ("RCSA"), as amended, New Cingular Wireless PCS, LLC ("AT&T" or the "Applicant"), hereby submits an application and supporting documentation (collectively, the "Application") for a Certificate of Environmental Compatibility and Public Need for the construction, maintenance and operation of a wireless communications facility (the "Facility") in the Town of Lyme. The proposed Facility is a necessary component of AT&T's wireless network and its provision of personal wireless communications services and will allow service to be provided in northern Lyme and parts of East Lyme. The Facility itself is proposed on property owned by Ruth E. Young.

B. Executive Summary

The site of AT&T's proposed Facility is 27 Gungy Road with access through property in common ownership at 322 Beaver Brook Road. The proposed Facility consists of a new 180'

monopole and associated unmanned equipment. AT&T will mount up to six (6) panel antennas on a low profile platform at a height of 180'. A 12' by 20' equipment shelter will be installed adjacent to the tower within a 75' x 75' gravel compound. Vehicular access to the facility would extend northerly from Beaver Brook Road, through the lot identified as 322 Beaver Brook Road along a new 12' wide gravel access drive approximately 1,833' to the proposed compound located on property with an address of 27 Gungy Road. The proposed access drive follows the course of an existing dirt path. Utilities to serve the proposed facility would extend underground from pole number 2431 on Beaver Brook Road and generally follow the new access drive to the site. Included in this Application and its accompanying attachments are reports, plans and visual materials detailing the proposed Facility and the environmental effects associated therewith. A copy of the Council's Community Antennas Television and Telecommunication Facilities Application Guide with page references from this Application is also included in Attachment 10.

C. The Applicant

The Applicant, New Cingular Wireless PCS, LLC ("AT&T"), is a Delaware limited liability company with an office at 500 Enterprise Drive, Rocky Hill, Connecticut 06067. The company's member corporation is licensed by the Federal Communications Commission ("FCC") to construct and operate a personal wireless services system, which has been interpreted as a "cellular system", within the meaning of CGS Section 16-50i(a)(6). The company does not conduct any other business in the State of Connecticut other than the provision of personal wireless services under FCC rules and regulations.

Correspondence and/or communications regarding this Application shall be addressed to the attorneys for the applicant:

Cuddy & Feder LLP
445 Hamilton Avenue, 14th Floor

White Plains, New York 10601
(914) 761-1300
Attention: Christopher B. Fisher, Esq.

A copy of all correspondence shall also be sent to:

AT&T
500 Enterprise Drive
Rocky Hill, Connecticut
Attention: Michele Briggs

D. Application Fee

Pursuant to RCSA Section 16-50v-1a(b), a check made payable to the Siting Council in the amount of $1,000 accompanies this Application.

E. Compliance with CGS Section 16-50*l*(c)

AT&T is not engaged in generating electric power in the State of Connecticut. As such, AT&T's proposed Facility is not subject to Section 16-50r of the Connecticut General Statutes. Furthermore, AT&T's proposed Facility has not been identified in any annual forecast reports, therefore AT&T's proposed Facility is not subject to Section 16-50l(c).

II. Service and Notice Required by CGS Section 16-50l(b)

Pursuant to CGS Section 16-50*l*(b), copies of this Application have been sent by certified mail, return receipt requested, to municipal, regional, State, and Federal officials. A certificate of service, along with a list of the parties served with a copy of the Application is included in Attachment 8. Pursuant to CGS 16-50*l*(b), notice of the Applicant's intent to submit this application was published on two occasions in The Day, the paper utilized for publication of planning and zoning notices in the Town. A copy of the published legal notice and the publisher's affidavit of publication are included in Attachment 9. The original publisher's affidavit of publication is also included with the application submission. Further, in compliance with CGS 16-50*l*(b), notices were sent to each person appearing of record as owner of a property

which abuts the property on which the facility is proposed. Certification of such notice, a sample notice letter, and the list of property owners to whom the notice was mailed are included in Attachment 9.

III. Statements of Need and Benefits

A. Statement of Need

As the Council is aware, the United States Congress, through adoption of the Telecommunications Act of 1996, recognized the important public need for high quality telecommunication services throughout the United States. The purpose of the Telecommunication Act 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). With respect to wireless communications services, 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 such authority and preempted State or local regulatory oversight in the area of emissions as more fully set forth in 47 U.S.C. § 332(c)(7). In essence, Congress struck a balance between legitimate areas of State and/or local regulatory control over wireless infrastructure and the public's interest in its timely deployment to meet the public need for wireless services.

The Facility proposed in this Application is an integral component of AT&T's network in its FCC licensed areas throughout the State. Currently, a gap in coverage exists in the area of Grassy Hill Road, Beaver Brook Road and surrounding areas in Lyme as well as a small portion of East Lyme. The proposed Facility, in conjunction with other existing and proposed facilities in Lyme and adjacent Towns is needed by AT&T to provide its wireless services to people living in and traveling through this area of the State. Attachment 1 of this Application includes a

Statement of Radio Frequency ("RF") Need and propagation plots which identify and demonstrate the specific need for a Facility in this area of Lyme.

B. Statement of Benefits

Carriers have seen the public's demand for traditional cellular telephone services in a mobile setting develop into the requirement for anytime-anywhere wireless connectivity with the ability to send and receive voice, text, image and video. Wireless devices have become integral to the telecommunications needs of the public and their benefits are no longer considered a luxury. People today are using their wireless devices more and more as their primary form of communication for both personal and business needs. Modern devices allow for calls to be made, the internet to be reached and other services to be provided irrespective of whether a user is mobile or stationary and provided network service is available. The Facility as proposed by AT&T would allow it and other carriers to provide these benefits to the public.

Moreover, AT&T will provide Enhanced 911 services from the site as required by the Wireless Communications and Public Safety Act of 1999 (the "911 Act"). The purpose of this Federal 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 that provide for the rapid, efficient deployment of emergency services would enable faster delivery of emergency care with reduced fatalities and severity of injuries. With each year since 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 and hikers. Carriers are simply able to help 911 public safety dispatchers identify wireless caller's geographical

locations within several hundred feet, a significant benefit to the community associated with any new wireless site.

C. Technological Alternatives

The FCC licenses granted to AT&T authorize it to provide wireless services in this area of the State through deployment of a network of wireless transmitting sites. The proposed Facility is a necessary component of AT&T's wireless network. Repeaters, microcell transmitters, distributed antenna systems and other types of transmitting technologies are not a practicable or feasible means to providing service within the target area for this site which contains a significant coverage gap. As such, they were not considered by AT&T as an alternative to the proposed Facility. The Applicant submits that there are no equally effective, feasible technological alternatives to construction of a new tower Facility for providing reliable personal wireless services in this area of Connecticut.

IV. Site Selection and Tower Sharing

A. Site Selection

AT&T began its investigation of the area with benchmark data on a gap in its wireless coverage exists in northern Lyme. AT&T then established a "site search area" in the general geographical location where the installation of a wireless facility would address the identified coverage need problem while still allowing for orderly integration of a site into AT&T's network, based on the engineering criteria of hand-off, frequency reuse and interference. In any site search area, AT&T Wireless seeks to avoid the unnecessary proliferation of towers and to reduce the potential adverse environmental effects of a needed facility, while at the same time ensuring the quality of service provided by the site to users of its network. Attached is a map of AT&T's original site search area established in the northeastern section of the Town. The target

area is largely residential and does not host any existing towers or tall structures appropriate for the siting of a wireless telecommunications facility.

As such, and only after determining that no existing structures could be used to provide the needed coverage in this area, AT&T commenced a search for tower sites. The search included the study of tax maps, planning and zoning files, review by AT&T radiofrequency engineers, and investigative visits by AT&T consultants. The predominant land use in the target area is single-family residential and there are no known town-owned or commercial properties in the area available for construction of a tower. Residential properties all define this area and limit where a tower can be located physically as well as visually. As part of AT&T's due diligence two sites were identified.

The proposed site, located at 27 Gungy Road, consists of an approximately 100 acre parcel of property and owned by Ruth E. Young with access provided through 322 Beaver Brook Road which is also owned by Mrs. Young. A second site was also identified by AT&T and optioned. The second site consisted of an approximately 4.0 acre parcel of property owned by Edward L. Firgelewski at 482 Grassy Hill Road. In February 2009, AT&T contacted the Town of Lyme and filed a Technical Report providing the details of both leased sites in order to commence formal consultation as required by Section 16-50*l* of the Connecticut General Statutes.

AT&T representatives subsequently discussed the project with the Zoning Enforcement Officer and appeared before the Town of Lyme Planning an Zoning Commission at a public meeting on April 13th, 2009 in order to present the two sites, answer questions and receive comments and feedback from the Town. As part of these discussions, the Planning & Zoning Commission indicated that there was a clear and strong preference for the site proposed at 27

Gungy Road / 322 Beaver Book Road. In subsequent correspondence the Town indicated that they would in fact be opposed to the site leased at 482 Grassy Hill Road. See correspondence with Town of Lyme included in Attachment 6.

In light of the foregoing discussions and correspondence with the Town, and AT&T's own concurrence, AT&T is proceeding with this application for the site at 27 Gungy Road / 322 Beaver Brook Road only. For the Council's review, the Visual Resource and Evaluation Report included as Attachment 4 is the same comparative report presented to the Town for their review and includes an analysis of the facility designed for the 482 Grassy Hill Road property which was identified as Site "A". Where materials note a Site "A" or Site "B" the Council is referred to the Site "B" information as part of this application.

B. Tower Sharing

To maximize co-location opportunities and minimize the potential for towers needed by other carriers, AT&T proposes a 180' monopole tower and facility compound that can accommodate three additional carriers' antenna platforms. At the April 13th Planning & Zoning meeting AT&T indicated that space could be made available on the tower for municipal antennas if the Town of Lyme determined there was a need.

V. Facility Design

AT&T has leased a 10,000 square foot area on an approximately 100 acre parcel of property owned by Ruth E. Young at 27 Gungy Road. The proposed Facility would consist of a 180' high self-supporting monopole within a 75' x 75' fenced equipment compound located east of an existing home on the property and north of a home on Beaver Brook Road, also owned by Mrs. Young. AT&T would install up to six (6) panel antennas on a platform at a centerline

height of 177'AGL and unmanned equipment within the compound. The compound would be enclosed by an 8' chain link fence.

Both the monopole and the equipment compound are designed to accommodate the facilities of three other wireless carriers. Vehicle access to the compound would extend northerly and through property known as 322 Beaver Brook Road along a new 12' wide gravel access drive approximately 1,833' to the proposed compound located on 27 Gungy Road. The proposed access drive follows the course of an existing dirt path before turning west towards the facility compound. Utilities to serve the proposed facility would extend underground from pole number 2431 on Beaver Brook Road and generally follow the new access drive to the site. Attachment 3 contains the specifications for the proposed Facility including an abutters map, site access maps, a compound plan, tower elevation, and other relevant details of the proposed Facility. Also included as Attachment 4 is a Visual Resource and Evaluation Report. Some of the relevant information included in Attachments 3 and 4 reveals that:

- The property is classified locally in the Town of Lyme RU-80 zoning district;
- Grading and clearing of the proposed access drive extension and compound area would be required for the construction of the proposed Facility;
- The proposed Facility will have no impact on water flow, water quality, or air quality;
- Topography and vegetation screen visibility of the tower from a large portion of the viewshed; and
- Year-round visibility of the proposed tower is limited to approximately 1% of the more than 8,000 acre study area;
- Views of the proposed monopole are limited and distant as depicted in Attachment 4.

VI. Environmental Compatibility

Pursuant to CGS Section 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 proposed Facility will not have a significant adverse environmental impact.

A. Visual Assessment

The visual impact of the proposed Facility is not significant. Included in Attachment 4 is a Visual Analysis Report which contains a viewshed map and photosimulations of off-site views. As shown in the report and photosimulations, areas of visibility are expected primarily distant to the site. As depicted in the Viewshed Analysis, the proposed Facility offered less potential visual impact as compared with the site on Grassy Hill Road which the Town objected to and is not being presented as an alternative. Weather permitting, AT&T will raise a balloon with a diameter of at least three (3) feet at the proposed Site 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 and Federal Agency Comments

Various consultations with municipal, State and Federal governmental entities and AT&T consultant reviews for potential environmental impacts are summarized and included in Attachments 5 and 7. AT&T submitted requests for review from Federal, State and Tribal entities including the United States Fish & Wildlife ("USFW") Service and the Connecticut State Historic Preservation Officer ("SHPO").

SHPO issued a letter dated January 13, 2009 indicating that project area possessed a sensitivity for pre-historic archaeological resources due to its proximity to Cedar Lake where a

number of identified prehistoric sites are located. As a result, AT&T's consultants conducted Phase I Archeological Identification Survey ("Survey") as recommended by SHPO which is included with this application in Attachment 7. No artifacts were recovered as a result of the field investigation and no archaeological sites were recorded. Given these results, further investigation is not recommended by AT&T's consultants.

No endangered or threatened species habitat was identified based on a review of the CT DEP Natural Diversity Database. Please see Natural Diversity Database Map included in Attachment 5. As required, this Application is being served on State and local agencies which may choose to comment on the Application prior to the close of the Siting Council's public hearing.

C. Power Density

In August 1996, the FCC adopted a standard for exposure to Radio Frequency ("RF") emissions from telecommunications facilities like those proposed in this Application. To ensure compliance with applicable standards, a maximum power density report was produced by AT&T and is included herein as part of Attachment 3. As demonstrated in this report, the calculated worst-case emissions from the site are only 4.3% of the MPE standard.

D. Other Environmental Factors

The proposed Facility would be unmanned, requiring monthly maintenance visits approximately one hour long. AT&T's equipment at the Facility would be monitored 24 hours a day, seven days a week from a remote location. The proposed Facility does not require a water supply or wastewater utilities. No outdoor storage or solid waste receptacles will be needed. Further, the proposed Facility will not create or emit any smoke, gas, dust or other air

contaminants, noise, odors or vibrations. The construction and operation of AT&T's proposed Facility will have no significant impact on the air, water, or noise quality of the area.

AT&T utilized the FCC's TOWAIR program to determine if the Site would require registration with the Federal Aviation Administration ("FAA"). The TOWAIR program results for the proposed facility, a copy of which is included in Attachment 3, indicate that registration with the FAA is not required for the proposed Facility let alone FAA review as a potential air navigation obstruction or hazard. As such, no FAA lighting or marking would not be required for the tower proposed in this Application.

AT&T has evaluated the Site in accordance with the FCC's regulations implementing the National Environmental Policy Act of 1969 ("NEPA"). The Site was not identified as a wilderness area, wildlife preserve, National Park, National Forest, National Parkway, Scenic River, State Forest, State Designated Scenic River or State Gameland. Further, according to the site survey and field investigations, no Federally regulated wetlands or watercourses or threatened or endangered species will be impacted by the proposed Facility. Federal Emergency Management Agency ("FEMA") Flood Insurance Rate Maps of the proposed site indicate that the Site is not located within a 100 year or 500 year floodplain.

VII. Consistency with the Town of Lyme's Land Use Regulations

Pursuant to the Council's Application Guide, included in this section is a narrative summary of the consistency of the project with the local municipality's zoning and wetland regulations and plan of conservation and development. A description of the zoning classification of the Site and the planned and existing uses of the proposed site location are also detailed in this Section.

A. Lyme's Plan of Conservation and Development

The Town of Lyme Plan of Conservation & Development ("Plan"), effective June 29, 2001 is included in Section 2 of the Bulk Filing. This document provides a short section addressing the provision of wireless telecommunications services. The Plan anticipates the expansion of telecommunications facilities and recognizes potential impacts on the rural/residential character that defines the Town of Lyme. In addition, the Plan notes the sometimes controversial nature of tower siting as well as a concern regarding towers which are left in place after they are no longer used for telecommunications transmission. The Plan and several attachments also identify the overall land use patterns in the area as open space/residential and highlight the siting limitations in this area of Lyme.

B. Lyme's Zoning Regulations and Zoning Classification

The Site is classified in the Town of Lyme's RU-80 Zoning District. Telecommunications Facilities including towers are permitted by Special Permit in the RU-80 Zoning District. (See Town of Lyme Zoning Regulations Applicant's Bulk Filing, Section 1). Section 8.4 of the Zoning Regulations set forth the standards for antennas and towers and the consistency of the proposed Facility with these standards is illustrated in the table below. The first two columns include the requirements of the Zoning Regulations and the third column applies these standards to the proposed monopole Facility.

C. Local Zoning Standards and Dimensional Requirements

Section from the Zoning Regulations	Standard or Preference	Proposed Facility
8.4.2(a) Siting Preference	Use of non-residential buildings and structures such as silos and power line structures.	There are no existing non-residential tall structures in the area which could host a facility to serve the coverage area targeted.

8.4.2(b) Siting Preference	Use existing towers where feasible.	No existing towers are available to serve the coverage area targeted. The existing lattice tower at 331 Grassy Hill Road south of the proposed facility would not provide coverage to the target area but may be used in the future to provide handoff coverage and serve the area south of 331 Grassy Hill Road.
8.4.2(c) Siting Preference	Avoid potential damage to adjoining properties from tower failure through engineering and careful siting of towers.	The proposed 180' tower is approximately 286' from the nearest property boundary.
8.4.2(d) Siting Preference	Protect historic and residential areas from potential adverse impacts of wireless communication facilities.	The tower is not in a historic district and will have minimal visual impact on the surrounding residential area.
8.4.2(e) Siting Preference	Use careful siting to minimize adverse visual impacts of wireless communications facilities.	Vegetation and topography will significantly limit visibility of the tower and any potential impacts as compared with the original "Site A" mot being pursued.
8.4.2(f) Siting Preference	Site initial towers to reduce the number of antennas / towers needed in the future.	The tower is in an area where no other wireless carriers are currently sited but is designed to accommodate up to three (3) additional carriers.
8.4.2(g) Siting Preference	Order of preference for alternative facility locations 1. Antenna on existing structures 2. On new towers located on property occupied by one or more existing towers 3. on new towers located in rural and commercial districts 4. on new towers located in waterfront districts, and the Conservation District.	The proposed facility is a new tower in a rural district and accordingly is the third most preferred siting location. As noted, AT&T's site search could not locate existing structures or towers in the area to serve this coverage need.
8.4.3.4 Design Guidelines	Monopole towers are the preferred design.	The proposed tower is a monopole design.
8.4.3.5 Design Guidelines	Towers not requiring FAA paintings or markings shall be painted a non-contrasting blue, gray or other non-obtrusive color.	The proposed monopole will be a galvanized steel which will present a matte gray finish.

8.4.3.6 Design Guidelines	No lights or illumination shall be permitted unless required by the FAA.	No need for illumination is anticipated and none is proposed.
8.4.3.7 Design Guidelines	The proposed support structure, building and electric utilities shall be required to accommodate multiple users to the extent practical.	The proposed monopole and compound are designed to accommodate up to three (3) additional carriers.
8.4.3.8 Design Guidelines	A proposed tower shall be designed and constructed to all applicable standards of the American National Standards Institutes, as amended.	The monopole will be designed and constructed to all applicable engineering standards incorporated into the State Building Code.
8.4.9 Design Guidelines	All towers shall meet minimum setback requirements for the underlying zone. In addition a) a new tower shall not be located within a distance of three times the tower height of an existing residence or proposed residence b) no new tower shall be located within a distance of three times the tower height of a playground, school, daycare or outdoor recreational facility and c) no new tower shall be located within a distance of three times the tower height or be within a historic district.	The closest residence/building is 1,320 feet to the west, well beyond the 540' sought by these setback requirements. The site is not located in a historic district. Notably, the original "Site A" did not meet these local requirements.
8.4.3.10 Design Guidelines	The tower structure and any guy wire anchors shall each be surrounded by a chain link fence and landscaped with a visual screening border of evergreen trees at least six feet in height, that are drought and deer resistant and which shall be properly maintained by the facility owner for the life of the facility. Anchors shall meet setback requirements	An 8' chain link fence is proposed. No landscaping is proposed in light of the distance from adjoining properties and residences and the wooded and secluded nature of the property generally. No guy-wires or anchors are proposed.
8.4.4.1 Setbacks	A tower must comply with the setback requirements of the district in which it is located. Unless otherwise permitted a tower shall be placed a distance from all	The RU-80 Zoning District requires a 50' front yard setback and 30' side yards. As the facility is approximately 286' from the nearest property lines these setback requirements are

	property lines at least equal to the height of the tower.	satisfied.
8.4.4.2 Lot Area	The minimum lot area shall be that of the zone in which the tower is located.	The minimum lot area in the RU-80 zoning district is 80,000 square feet (approximately 1.8 acres). The Premises at 322 Beaver Brook is approximately 100 acres in size (over 4.3 million square feet)
8.4.5.2 Signs	No signs or advertising shall be permitted on any tower or antenna except no trespassing, warning and ownership signs are permitted at ground level.	No signs other than those permitted by the zoning ordinance would be utilized.
8.4.6 Accessory buildings	a) Within residential zones, the accessory building shall not exceed 450 square feet gross floor area for the initial telecommunication facility. Minimal increased floor area is permitted for sharing purposes; and the building shall have a roof line characteristic of other buildings in the vicinity. b) each building shall comply with setback requirements d) all ground level buildings boxes or cabinets shall be surrounded by a chain link fence and landscaped with a border of evergreen trees at least six feet in height. e) all utilities shall be underground	The proposed equipment shelter is 240 square feet in gross floor area and would be located within the proposed fenced compound which complies with setback requirements. Additional carriers would use separate shelters or outdoor cabinets. Utilities are proposed to be underground. No special treatment of the building is proposed given the location far removed from the other structures and buildings.
8.4.7 Abandonment of telecommunications facilities	A wireless telecommunications facility not in use for12 consecutive months shall be removed by the facility owner at their expense. This removal shall occur within 90 days of the end of such 12-month period.	The Siting Council typically requires that a facility that ceases to provide wireless services for a period of one year must be dismantled and removed.

As noted in the above table, the Town's Zoning Regulations set forth locational preferences for wireless facilities as set forth in Section 8.4.2. The Town's list prefers siting on existing nonresidential building or structures in non-residential zoning districts; on lots with

existing towers; in rural or commercial districts, and finally on new towers located in Waterfront districts and the Conservation District. The proposed facility is a new tower in the RU-80 residential Zoning District would be the 3rd most preferred type of facility pursuant to the Town's Zoning Regulations. The Town's location preferences were reviewed by AT&T but higher priority sites are not available in this area of Lyme. The search area is predominantly defined by open space and residential land and there are no existing tall structures or towers that could accommodate AT&T's coverage objectives. As such, higher priority sites as listed in the Town's Zoning Regulations are unavailable or would not meet AT&T's coverage objectives.

D. Planned and Existing Land Uses

The proposed Facility will be located on an approximately 100 acre parcel which is larger than most parcels in the area. Properties immediately surrounding the subject site include low-density single family residential homes and open space. Consultation with municipal officials did not indicate any planned changes to the existing or surrounding land uses. Copies of the Town's Zoning, Wetland Soils Map and Open Space Map are included in the AT&T's Bulk Filing.

E. Lyme's Inland Wetlands and Watercourses Regulations

The Town of Lyme's Inland Wetlands Regulations ("Local Wetlands Regulations") regulate certain activities conducted in "Wetlands" and "Watercourses" as defined therein. In this case, a review of available information regarding the site through Federal, State and local databases indicates the site hosts a small delineated wetland mapped on the National Wetland's Inventory but does not lie within a 100-year or 500-year flood zone. These wetlands were mapped in the filed and are shown on the drawings in Attachment 3.

For purposes of protecting this wetland all appropriate sediment and erosion control measures will be designed and employed in accordance with the Connecticut Soil Erosion Control Guidelines, as established by the Council of Soil and Water Conservation. Soil erosion control measures and other best management practices will be established and maintained throughout the construction of the proposed Facility. A tributary to the Beaver Brook is also onsite and runs south from the existing wetlands from a point over 600' to the south of the proposed compound. The distance from the compound to the delineated wetland is 230' to the southeast and the closest point of the proposed access drive to the wetland is 50' to west. No adverse impact to these wetland and water resources is anticipated, but as noted, erosion control measures and other best management practices will be implemented.

VIII. Consultations with Local Officials

CGS Section 16-50*l*(e) requires an applicant to consult with the 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 facility. A Technical Report was filed with the Towns of Lyme and East Lyme (which is within 2500' of the proposed site) on February 27, 2009. Subsequently representatives of AT&T spoke with officials in the Town of Lyme including the First Selectman and Zoning Enforcement Officer Bernie Gigliotti. Representatives of AT&T subsequently appeared before the Town of Lyme Planning and Zoning Commission on April 13, 2009 to discuss the proposed facility as part of the municipal consultation process. The Technical Report described two potential sites. In addition to the site presented in this application, AT&T also presented to the Town another potential site at 482 Grassy Hill Road. At its April 13, 2009 meeting, the Planning and Zoning Commission indicated its clear and strong preference for the proposed site indicating that it would in fact be opposed to the alternative site at 482 Grassy Hill Road. This was reinforced by the letter sent by

ZEO Gigliotti to the Siting Council dated April 14, 2009 stating same. As a result of AT&T's appearance before the Planning Board and its own analysis of the visual and related site issues, an alternative site at 482 Grassy Hill Road is not being pursued as part of this application. No comments were received from the Town of East Lyme.

IX. Estimated Cost and Schedule

A. Overall Estimated Cost

The total estimated cost of construction for the proposed Facility is $303,000. This estimate includes:

(1) Tower and foundation costs (including installation) of approximately $93,,000;

(2) Site development costs of approximately $110,000;

(3) Utility installation costs of approximately $48,000; and

(4) Facility installation costs of approximately $48,000.

B. Overall Scheduling

Site preparation work would commence immediately following Council approval of a Development and Management ("D&M") Plan and the issuance of a Building Permit by the Town of Lyme. The site preparation phase is expected to be completed within four to five weeks. Installation of the monopole, antennas and associated equipment is expected to take an additional two weeks. The duration of the total construction schedule is approximately seven weeks. Facility integration and system testing is expected to require an additional two weeks after the construction is completed.

X. Conclusion

This Application and the accompanying materials and documentation clearly demonstrate that a public need exists in the northern portion of Town of Lyme and surrounding areas for the

provision of AT&T's wireless services to the public. The foregoing information and attachments also demonstrate that the proposed Facility at 27 Gungy Road / 322 Beaver Brook Road will not have any substantial adverse environmental effects. The Applicant respectfully submits that the public need for the proposed Facility outweighs any potential environmental effects resulting from the construction of the proposed Facility at the Site. As such, the Applicant respectfully requests that the Council grant a Certificate of Environmental Compatibility and Public Need to AT&T for the proposed wireless telecommunications facility at 27 Gungy Road / 322 Beaver Brook Road in the Town of Lyme.

Respectfully Submitted,

By: _____

Christopher B. Fisher, Esq.
Daniel M. Laub, Esq.
Cuddy & Feder LLP
445 Hamilton Avenue, 14th Floor
White Plains, New York 10601
(914) 761-1300
Attorneys for the Applicant

(This page intentionally left blank.)

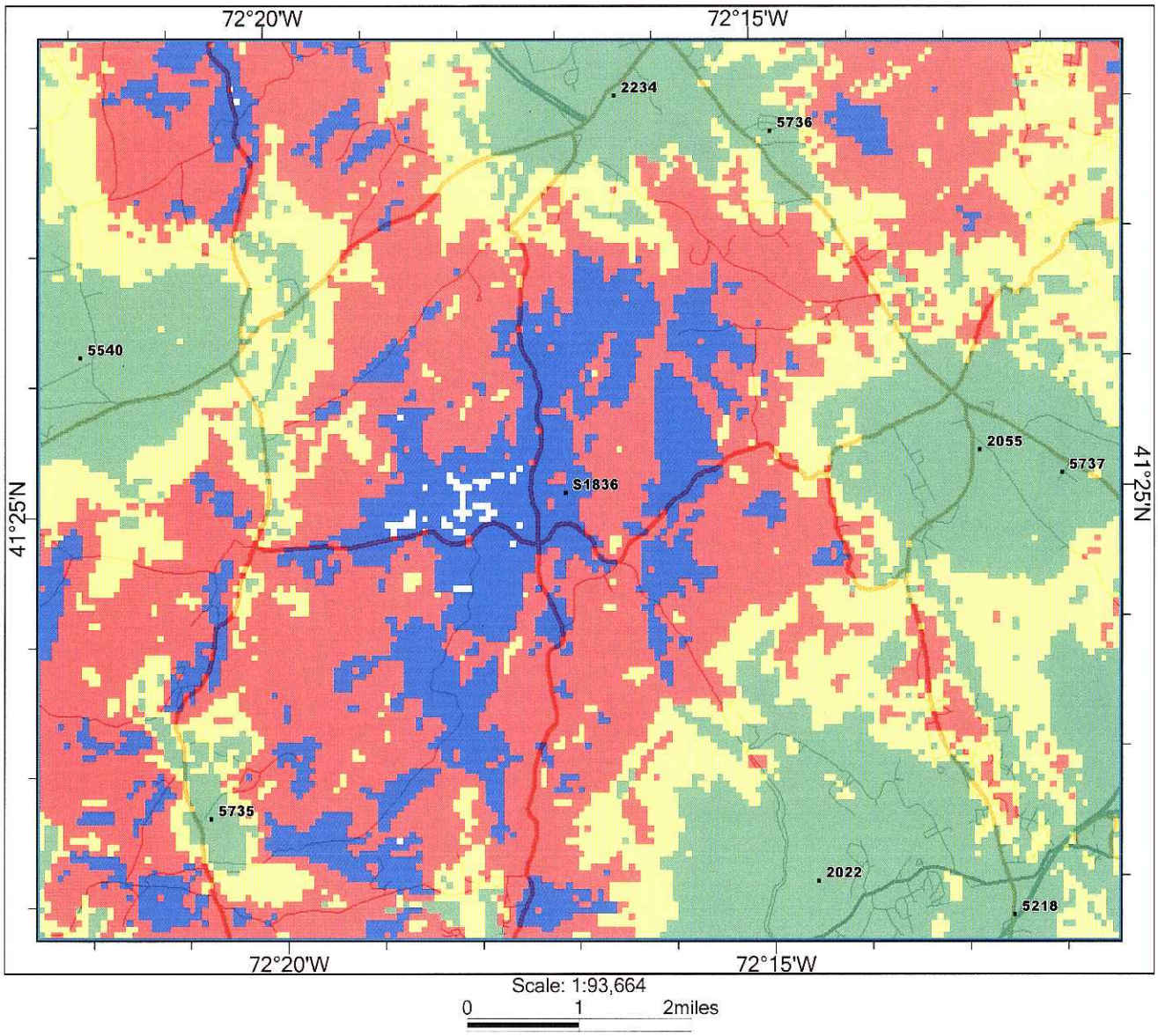
Reserved for
Exhibit # 1

Statement of RF Need

The proposed Site facility will provide wireless communications service near the intersection of Beaver Brook Road and Grassy Hill Road and surrounding areas in the Towns of Lyme and East Lyme. The proposed Site facility is needed by AT&T in conjunction with other existing and proposed facilities in Lyme and East Lyme as more fully set forth in the attachments which follow. Attached are 3 coverage plots which depict the existing coverage in the area as well as the proposed coverage from the proposed site together with coverage provided by nearby existing sites. Additionally, information concerning existing sites in the area is attached and titled "Existing Tower - Cell Site Listing." As demonstrated by these attachments AT&T has a need for a facility in northeastern Lyme in order to serve that portion of the Town.

at&t

Current Coverage



Scale: 1:93,664

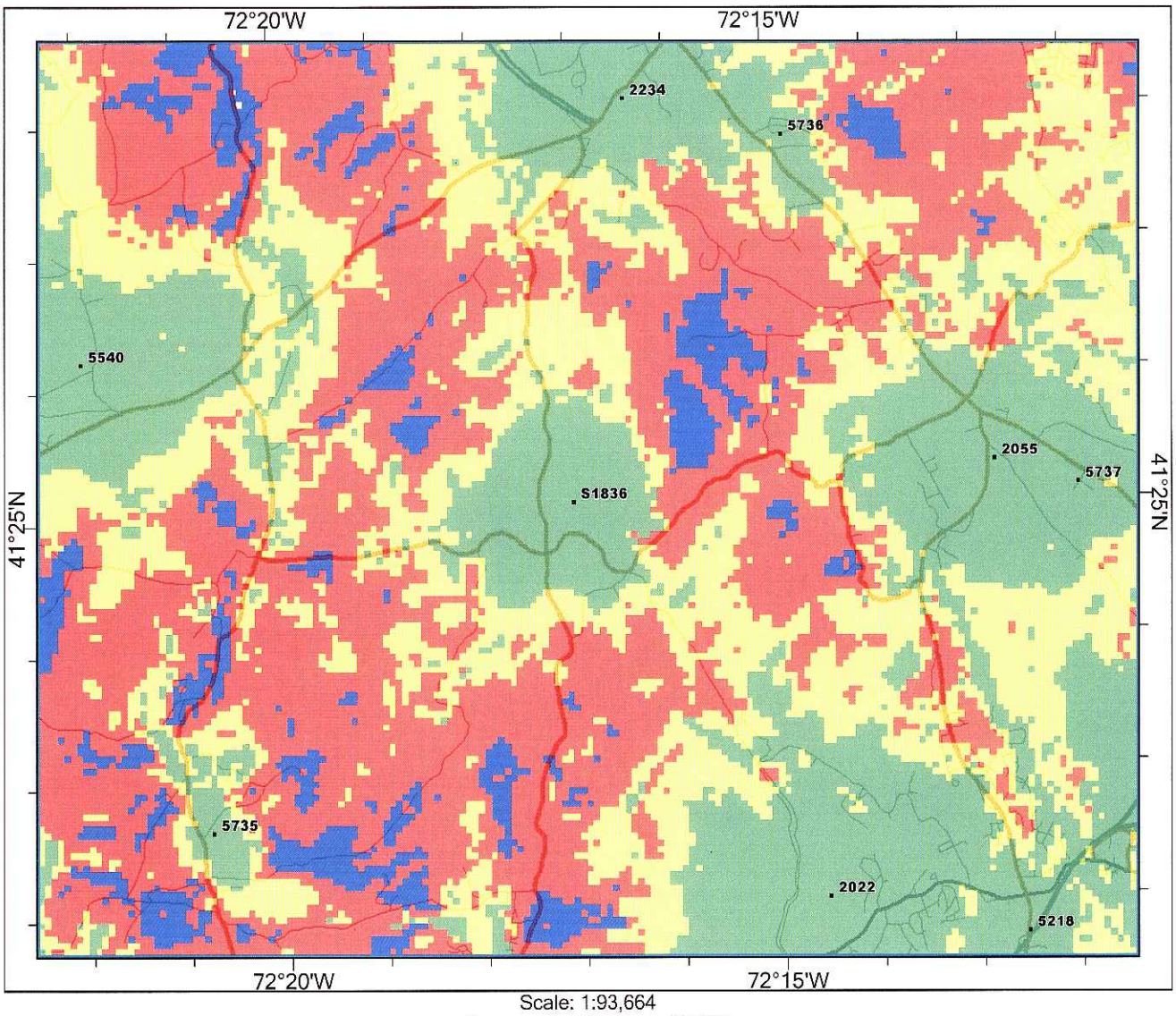
0 1 2miles

Coverage by Signal Level

- Best signal level (dBm) >=-74
- Best signal level (dBm) >=-82
- Best signal level (dBm) >=-92
- Best signal level (dBm) >=-105

at&t

Proposed Coverage



Coverage by Signal Level

- Best signal level (dBm) >=-74
- Best signal level (dBm) >=-82
- Best signal level (dBm) >=-92
- Best signal level (dBm) >=-105

EXISTING TOWER/ CELL SITE LISTING

There are 9 communications towers and an existing silo located within approximately four miles of the site search area for the proposed site in Lyme. Each location is also shown on the following map, numbered in the order appearing on this list. Not one of the below existing facilities would provide adequate coverage to the target area. Indeed, some of the towers listed below are currently being used or proposed for use by AT&T to provide service outside of the area targeted for service by the proposed Lyme Facility. Existing AT&T facilities are indicated by site number in bold.

No.	OWNER/OPERATOR	TOWER/CELL SITE LOCATION	HEIGHT	SOURCE	COORDINATES
1.	American Tower	331 Grassy Hill Road, Lyme	105'	CSC Database	Lat 41-23-30 Long 72-17-09.5
2.	AT&T (operator - silo)	Sterling City Road, Lyme	77'	**AT&T Site #5735**	Lat 41-22-38 Long 72-20-46
3.	Crown	189 Boston Post Road, Old Lyme	120' (est)	Visual	Lat 41-26-57 Long 72-17-44
4.	DPS	Pump House Hill Road, E. Lyme	140'	CSC Database	Lat 41-21-57 Long 72-15-58
5.	Spectrasite	Scott Road, E. Lyme	150'	**AT&T Site #2022**	Lat 41-22-01 Long 72-14-32.7
6.	Wireless Solutions	376 Butlertown Road, Montville	195'	**AT&T Site #2055**	Lat 41-25-17.6 Long 72-12-45
7.	Sprint	41 Beckwith Road, Montville	180'	CSC Database	Lat 41-26-08 Long 72-13-15
8.	AT&T (operator)	27 Maynard Hill Road, Salem	100'	**AT&T Site #5736**	Lat 41-27-48 Long 72-14-56
9.	American Tower	153 E. Haddam Road, Salem	190'	**AT&T Site #2234**	Lat 41-28-06 Long 72-16-23.6
10.	Crown	135 Honey Hill Road, E. Haddam	150'	**AT&T Site #5540**	Lat 41-26-13 Long 72-21-59


2292-Hopyard
11
AMT-Salem (190)
9
ATT-Salem (100)
8
NU-Montville (181)
t Cable-E Haddam (300)
New London Rd
rown-E Haddam (150)
10
7
Sprint-Montville (180)
1836SR
1836-322 Beaver Bk
Wireless Sol'ns-Montville (195)
6
Spectrasite-Montville (1090)
1836-482 Grassy Hill, Lyme
1
AMT-Lyme (105)
Waterford WT (135)
SBA-Waterf
2
5735-Lyme silo (94)
Brockway Island
Spectrasite-E Lyme (150)
DPS-E Lyme (140)
4
5
95
TMob PM
ATT pm-E Lyme (150)
TMob pm-E Lyme (100)
Sprint-Waterfor
Rat Island
Crown-Old Lyme (Sprint)
3
Mink Island
Essex Village
© 2008 Europa Technologies
© USFWS
© 2008 Tele Atlas
Image © 2009 DigitalGlobe
9
Goose Island
Calves Island Bar
Crown-E Lyme (150)
Prelew-245 ft.yme (100)
72°16'36.90" W
Oct 2006
Eye alt

(This page intentionally left blank.)

Reserved for
Exhibit # 2

Site Search Summary

To initiate its site selection process in an area where a coverage need has been identified, AT&T first establishes a "site search area". The site search area is a general geographical location where the installation of a wireless facility would address the identified coverage need problem while still allowing for orderly integration of the site into AT&T's network, based on the engineering criteria of hand-off, frequency reuse and interference. In any site search area, AT&T Wireless seeks to avoid the unnecessary proliferation of towers and to reduce the potential adverse environmental effects of a needed facility, while at the same time ensuring the quality of service provided by the site to users of its network. A site search area was established in northern Lyme just north of the intersection of Grassy Hill, Beaver Brook and Gungy Road.

Analysis of the existing telecommunications sites located within 4 miles of the search area indicated that none of these locations would provide adequate coverage to the area targeted for service which was investigated further. AT&T identified one communications tower outside of the site search area. This site is an existing lattice tower owned and operated by American Tower at 331 Grassy Hill Road. While this tower may be usable in the future by AT&T to serve areas to the south of the target area, the topography of this area precludes the use of this existing tower to service the intersection of Grassy Hill, Gungy and Beaver Brook Roads and points north, west and east thereof. No other tall non-tower structures were located within the site search area as the area consists of mainly residential buildings. Buildings are generally limited to two (2) stories in height and as such none were found adequate to meet the coverage requirements for the proposed facility. In short, there are no existing structures within the search area adequate to meet the coverage requirements of either of the proposed Facilities.

Various parcels of land within and near this area were investigated by AT&T for construction of a new tower facility. The descriptions of the individual sites investigated, set forth below, included sites in and outside the site search area that were analyzed and found to be technically inadequate. This was due either to the topography in the northeastern section of Lyme or the overall distance from the investigated site to the area where system coverage is needed.

Properties Investigated as Part of Site Search

AT&T's representatives identified and investigated eleven (11) sites in and around the Lyme site search area. The description of the individual sites investigated is set forth below. Where applicable, the reason for eliminating the property is also included. Following these descriptions is a map which shows the location of all sites investigated.

1. Address: 322 Beaver Brook Rd & 27 Gungy Road
Owner: Ruth E. Young
Map/Lot: 52/11 & 53/5
Deed: 55/372 & 73/332
Zoning District: RU 80
Lot Size: Approx. 101.85 Acres (combined)

This is the candidate location.

2. Address: 482 Grassy Hill Road
Owner: Edward Firgelewski
Map/Lot: 52/2
Deed: 67/319 & 97/518
Zoning District: RU 80
Lot Size: Approx. 4.05 Acres

This property was the alternative candidate site.

3. Address: Gungy Road
Owner: Kevin Mazer, et al
Map/Lot: 46/2; 54/4; 54/8; 54/5
Deed: 66/97
Zoning District: RU 80
Lot Size: Approx. 101.69 Acres (combined)

The owner(s) of these contiguous parcels have not responded to AT&T's inquiries.

4. Address: Gungy Road (Hartman Park)
Owner: Town of Lyme
Map/Lot: 54/7
Deed: 84/58
Zoning District: RU 80
Lot Size: Approx. 321.24 Acres

Recreation land.

5. Address: Gungy Road
Owner: Lucius Stark, et al
Map/Lot: 54/1
Deed: 101/689

Zoning District: RU 80
Lot Size: Approx. 140.89 Acres

The owner(s) of this large, undeveloped parcel have not responded to AT&T's inquiries.

6. Address: Gungy Road
Owner: G-Four LLC
Map/Lot: 53/2
Deed: 137/467
Zoning District: RU 80
Lot Size: Approx. 44.7 Acres

The owner(s) of this large, undeveloped parcel have not responded to AT&T's inquiries.

7. Address: Gungy Road
Owner: Pamela & Charles Ingersoll
Map/Lot: 53/1
Deed: 135/262
Zoning District: RU 80
Lot Size: Approx. 83.4 Acres

This parcel is the location of Whitford Pond and associated feeder streams.

8. Address: Beaver Brook Road
Owner: Lyme Land Conservation Trust, Inc.
Map/Lot: 52/16
Deed: 81/983
Zoning District: RU 80
Lot Size: Approx. 64.29 Acres

Conservation land – restricted access due to wetlands.

9. Address: 273 Beaver Brook Road
Owner: Edward Firgelewski
Map/Lot: 44/31
Deed: 97/518
Zoning District: RU 80
Lot Size: Approx. 83.58 Acres

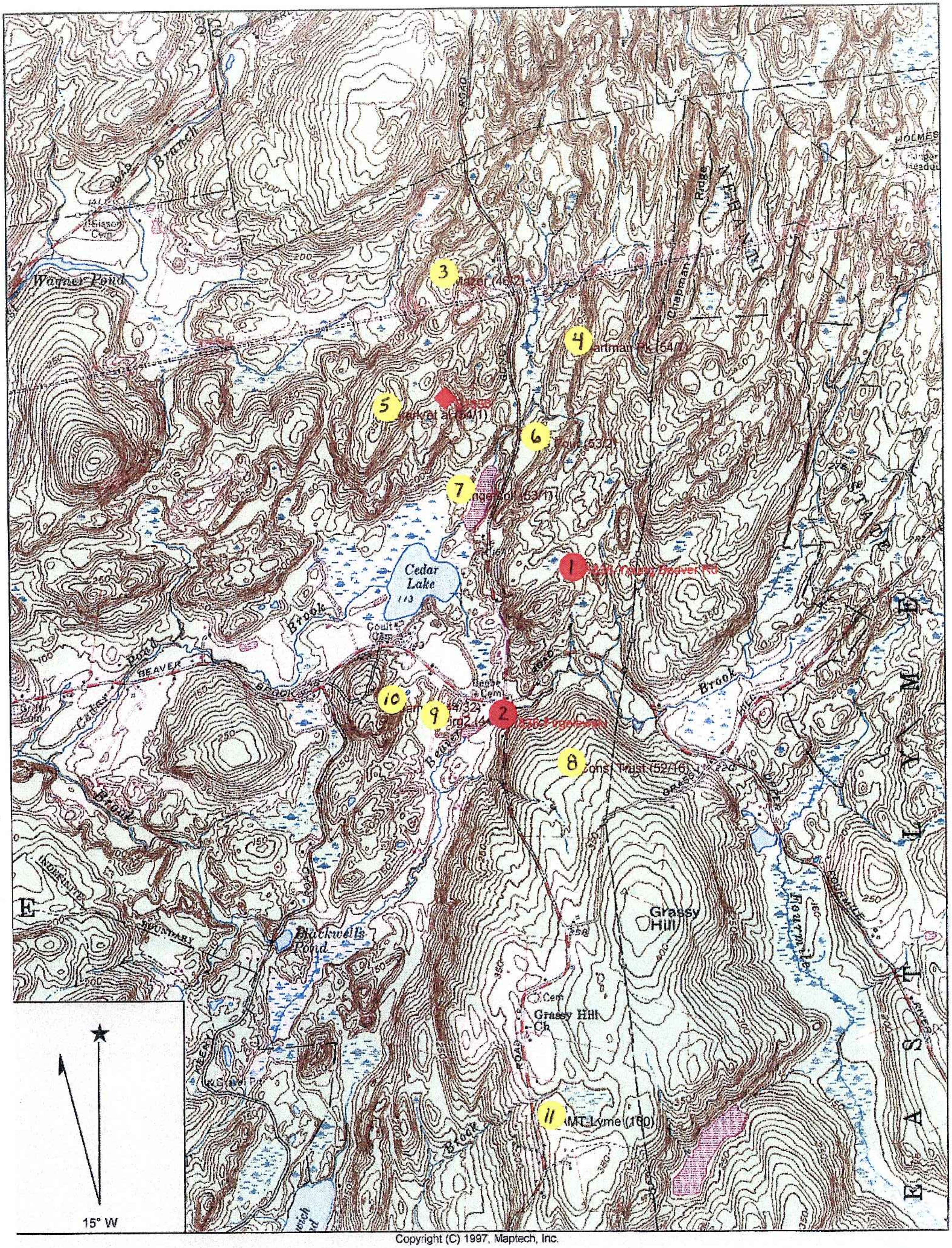
Same landowner as Property #2 – this large parcel is slightly down gradient from the subject property, and is significantly constrained by wetlands throughout the rear portion of the parcel.

10. Address: 255 Beaver Brook Road
Owner: William H. James
Map/Lot: 44/32
Deed: 65/126
Zoning District: RU 80
Lot Size: Approx. 23.5 Acres

The owner of this parcel indicated that he was not interested in AT&T's proposal.

11. Address: 331 Grassy Hill Road
Owner/Operator: American Towers, Inc.
Map/Lot: 50/12
Deed: 111/706
Zoning District: RU 80
Lot Size: Approx. 2.83 Acres

This is an existing lattice tower approximately 2.4 miles south of the search ring center. Collocation on the available antenna centerline of 92' did not provide sufficient coverage for the objective, and was rejected by AT&T's RF Engineering Dept. This site may be utilized in the future to augment coverage to the south.



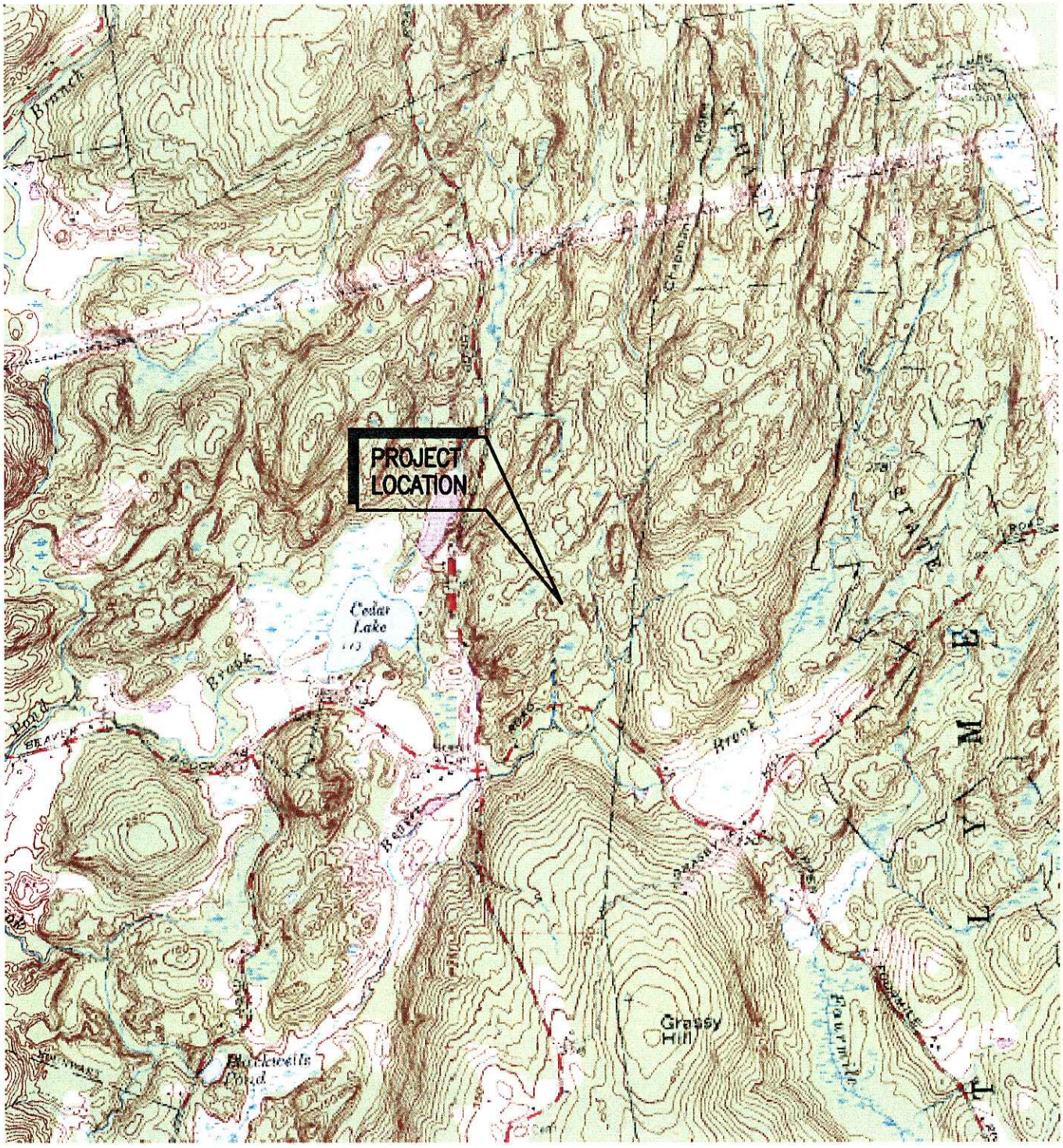
(This page intentionally left blank.)

Reserved for
Exhibit # 3

General Facility Description

Lands of Ruth E. Young
322 Beaver Brook Road, Lyme
Tax Map Identification 52-11/Account Number 105300
1.0 Acre Parcel
and
27 Gungy Road, Lyme
Tax Map Identification 53-5/Account Number 105000
100.85 Acre Parcel

The proposed facility consists of a 100'by 100' leased area located in the central portion of a 100.85 acre parcel of property owned by Ruth E. Young at 27 Gungy Road and is accessed via 322 Beaver Brook Road, also owed by Ruth E. Young, in Lyme. The property is located on the eastern side of Gungy Road just northeast of the intersection of Gungy Road and Beaver Brook Road. A new 180' self-supporting monopole tower would be constructed upon which AT&T would install up to 6 panel antennas together with an associated 12' x 20' radio equipment shelter at the tower base within the tower compound. The compound itself would measure 75' by 75' and be large enough to accommodate the equipment of up to 3 other wireless carriers who may wish to share use of the facility. Vehicle access to the compound would extend northerly from Beaver Brook Road, through the lot identified as 322 Beaver Brook Road along a new 12' wide gravel access drive approximately 1,833' to the proposed compound located on 27 Gungy Road. The proposed access drive follows the course of an existing dirt path. Utilities to serve the proposed facility would extend underground from pole number 2431 on Beaver Brook Road and generally follow the new access drive to the site.



1 **1989 USGS TOPO MAP: 41072-D3 HAMBURG**

SCALE: 1" = 2000'

0 1000 2000

SCALE IN FEET

TRUE NORTH

CLOUGH HARBOUR & ASSOCIATES LLP
2139 Silas Deane Highway, Suite 212 · Rocky Hill, CT 06067-2338
Main: (860) 257-4557 · www.cloughharbour.com

at&t Your world. Delivered.

NEW CINGULAR WIRELESS PCS, LLC
500 ENTERPRISE DRIVE, ROCKY HILL, CT 06067

SR1836
LYME-BEAVER BROOK ROAD
322 BEAVER BROOK ROAD
LYME, CT 06371
NEW LONDON COUNTY

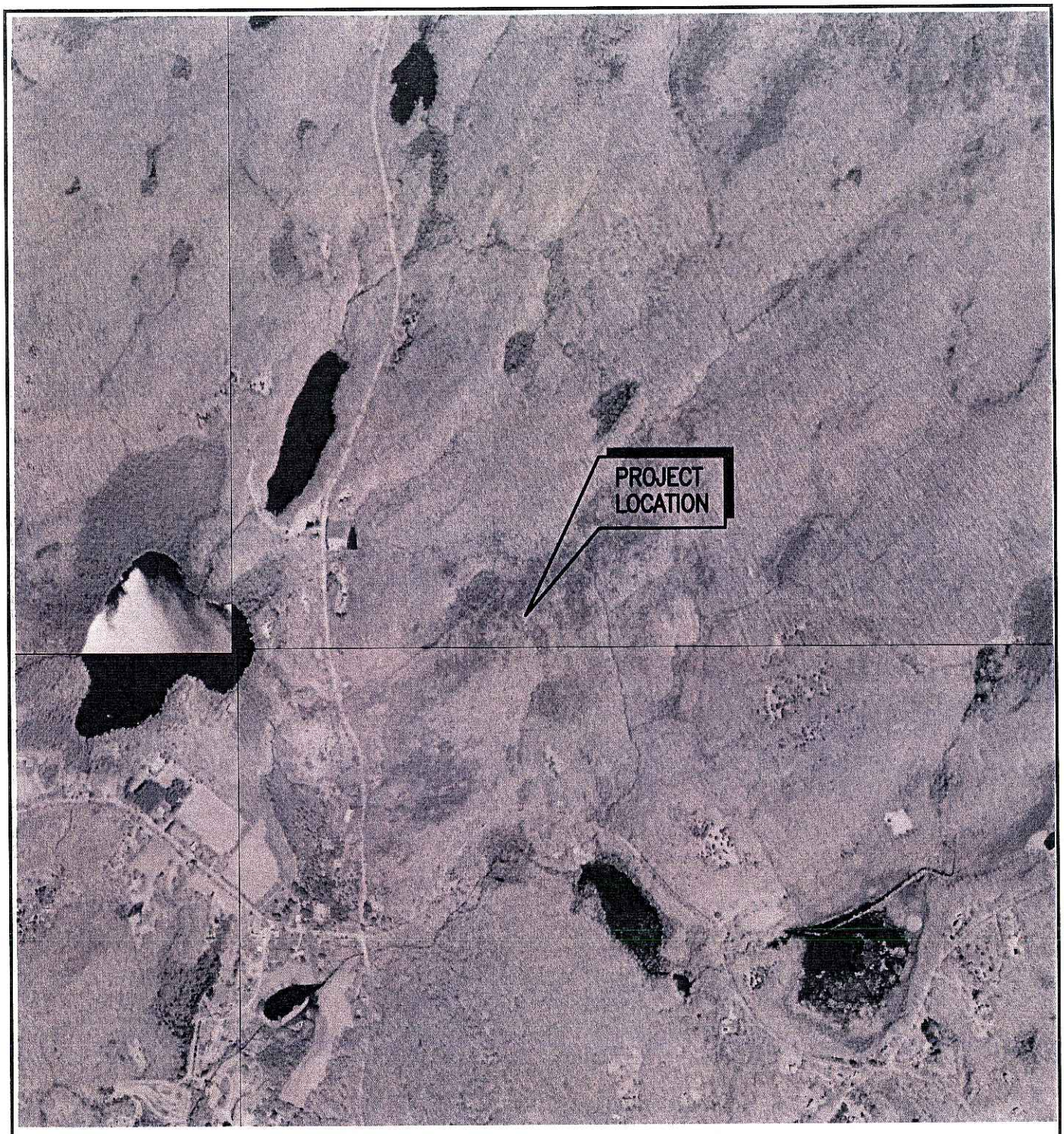
CHA PROJ. NO. – 18301-1019

SHEET TITLE:
USGS TOPO MAP

DATE:
12/24/08

REVISION:
0

DATE: 12/29/2008 10:40 AM FILE: W:\SAI CINGULAR\18301\SITES\1019 LYME-BEAVER BROOK RD\ZD\LYME-5 USGS.DWG



1 2004 AERIAL PHOTO
SCALE: 1" = 1000'
0 500 1000
SCALE IN FEET

TRUE NORTH

CLOUGH HARBOUR & ASSOCIATES LLP
2139 Silas Deane Highway, Suite 212 · Rocky Hill, CT 06067-2338
Main: (860) 257-4557 · www.cloughharbour.com

at&t
Your world. Delivered.

NEW CINGULAR WIRELESS PCS, LLC
500 ENTERPRISE DRIVE, ROCKY HILL, CT 06067

SR1836
LYME-BEAVER BROOK ROAD
322 BEAVER BROOK ROAD
LYME, CT 06371
NEW LONDON COUNTY

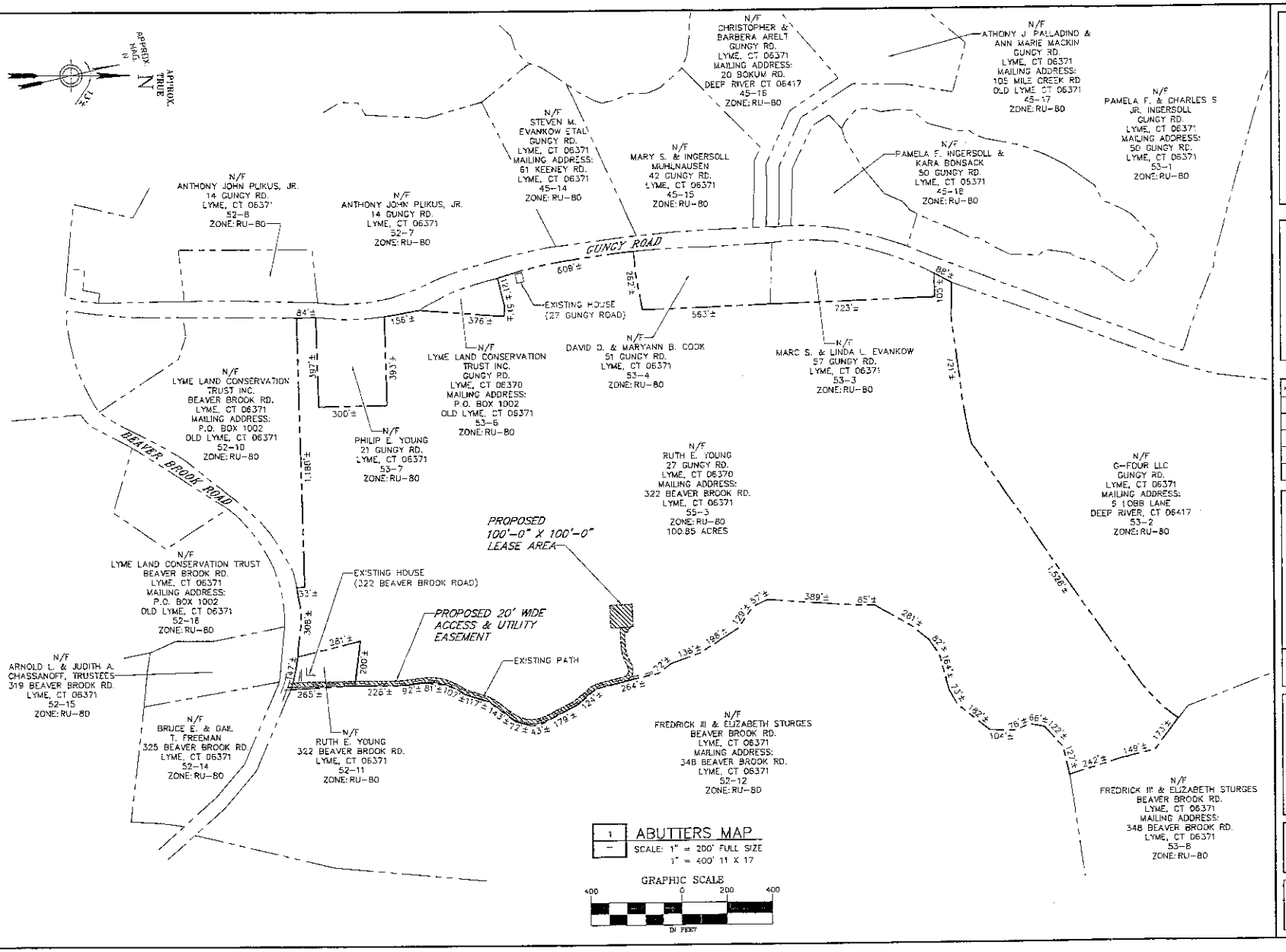
CHA PROJ. NO. – 18301–1019

SHEET TITLE:
AERIAL PHOTO

DATE:
12/24/08

REVISION:
0

DATE: 12/29/2008 10:43 AM FILE: W:\SAI CINGULAR\18301\SITES\1019 LYME-BEAVER BROOK RD\ZD\LYME-6 AERIAL.DWG



at&t
Your world. Delivered.

NEW CINGULAR WIRELESS PCS, LLC
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067

CHA
CLOUGH HARBOUR & ASSOCIATES LLP
2100 Silas Deane Highway, Suite 202 - Rocky Hill, CT 06067-2336
Main: (860) 257-4500 - www.cloughharbour.com

CHA PROJECT NO:
18301 - 1018 - 1601

NO	SUBMITTAL	
C	12/24/08	ISSUED FOR CSC CERTIFICATE
	BY: PAL	CHK: PAL APP'D: JPS

SITE ID:
SR1836

SITE NAME:
LYME-BEAVER BROOK RD

SITE ADDRESS:
322 BEAVER BROOK ROAD
LYME, CT
06371
NEW LONDON COUNTY

SHEET TITLE
ABUTTERS MAP

SHEET NUMBER
C01

SURVEY NOTES:

1. THIS SURVEY HAS 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 BOUNDARY LINES SHOWN ON THIS PLAN WERE COMPILED FROM OTHER MAPS, RECORD RESEARCH OR OTHER SOURCES OF INFORMATION. IT IS NOT TO BE CONSTRUED AS HAVING BEEN OBTAINED AS THE RESULT OF A FIELD SURVEY, AND IS SUBJECT TO SUCH CHANGE AS AN ACCURATE FIELD SURVEY MAY DISCLOSE.

TYPE OF SURVEY: COMPILATION PLAN

BOUNDARY DETERMINATION CATEGORY: NONE

CLASS OF ACCURACY: HORIZONTAL CLASS A-2
VERTICAL CLASS V-2
TOPOGRAPHIC CLASS T-2

2. PROPERTY LINE SHOWN HEREON ARE FROM RECORD DEEDS PLOTS AND TAX MAPS AS OVERLAID ON ANY MONUMENTATION OR OTHER EVIDENCE THAT MAY HAVE BEEN LOCATED DURING THE TOPOGRAPHIC SURVEY. A PROPERTY SURVEY WAS NOT PERFORMED BY CLOUGH HARBOUR & ASSOCIATES LLP AND AS A RESULT THE PROPERTY LINES SHOWN ARE APPROXIMATE AND DO NOT PRESENT A PROPERTY/BOUNDARY OPINION.

3. BASE MAPPING PREPARED BY CLOUGH HARBOUR & ASSOCIATES LLP FROM AN DECEMBER 2008 FIELD SURVEY.

4. NORTH ORIENTATION IS TRUE NORTH BASED ON GPS OBSERVATIONS TAKEN AT THE TIME OF THE FIELD SURVEY.

5. UNDERGROUND UTILITIES, STRUCTURES AND FACILITIES HAVE BEEN SHOWN FROM SURFACE LOCATIONS AND MEASUREMENTS OBTAINED FROM A FIELD SURVEY. THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHER UTILITIES WHICH THE EXISTENCE OF ARE NOT KNOWN. SIZE, TYPE AND LOCATION OF ALL UTILITIES AND STRUCTURES MUST BE VERIFIED BY PROPER AUTHORITIES PRIOR TO ANY AND ALL CONSTRUCTION. CALL DIG SAFE PRIOR.

6. SUBJECT TO ANY STATEMENT OF FACTS THAT AN UP-TO-DATE ABSTRACT OF TITLE WOULD DISCLOSE.

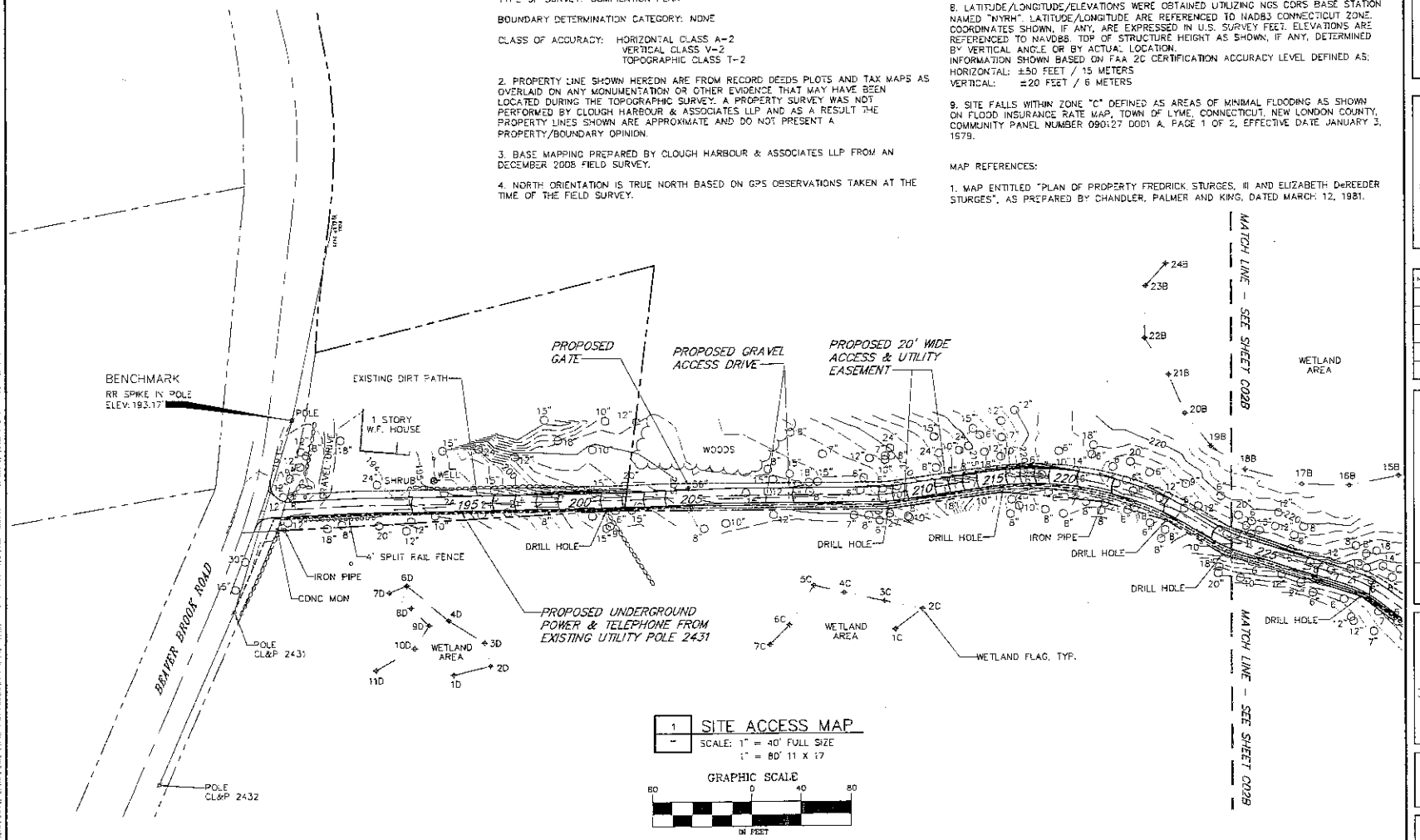
7. SUBJECT TO ALL RIGHTS, EASEMENTS, COVENANTS OR RESTRICTIONS OF RECORD.

8. LATITUDE/LONGITUDE/ELEVATIONS WERE OBTAINED UTILIZING NGS CORS BASE STATION NAMED "NYRH". LATITUDE/LONGITUDE ARE REFERENCED TO NAD83 CONNECTICUT ZONE. COORDINATES SHOWN, IF ANY, ARE EXPRESSED IN U.S. SURVEY FEET. ELEVATIONS ARE REFERENCED TO NAVD88. TOP OF STRUCTURE HEIGHT AS SHOWN, IF ANY, DETERMINED BY VERTICAL ANGLE OR BY ACTUAL LOCATION.
INFORMATION SHOWN BASED ON FAA 2C CERTIFICATION ACCURACY LEVEL DEFINED AS:
HORIZONTAL: ±50 FEET / 15 METERS
VERTICAL: ±20 FEET / 6 METERS

9. SITE FALLS WITHIN ZONE "C" DEFINED AS AREAS OF MINIMAL FLOODING AS SHOWN ON FLOOD INSURANCE RATE MAP, TOWN OF LYME, CONNECTICUT, NEW LONDON COUNTY, COMMUNITY PANEL NUMBER 090127 0001 A, PAGE 1 OF 2, EFFECTIVE DATE JANUARY 3, 1979.

MAP REFERENCES:

1. MAP ENTITLED "PLAN OF PROPERTY FREDRICK STURGES, III AND ELIZABETH DeREEDER STURGES", AS PREPARED BY CHANDLER, PALMER AND KING, DATED MARCH 12, 1981.



1 SITE ACCESS MAP
SCALE: 1" = 40' FULL SIZE
1" = 80' 11 X 17

GRAPHIC SCALE
80 0 40 80
IN FEET

NEW CINGULAR WIRELESS PCS, LLC
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067

CLOUGH HARBOUR & ASSOCIATES LLP
2139 Silas Deane Highway, Suite 212 - Rocky Hill, CT 06067-2338
Main (860) 257-4557 www.cloughharbour.com

CHA PROJECT NO:
16301 - 1019 - 1601

NO	SUBMITTAL	
1	12/24/08	ISSUED FOR CSC CERTIFICATE
	BY: PAL	CHK: PAL / APP'D: JPS
		3

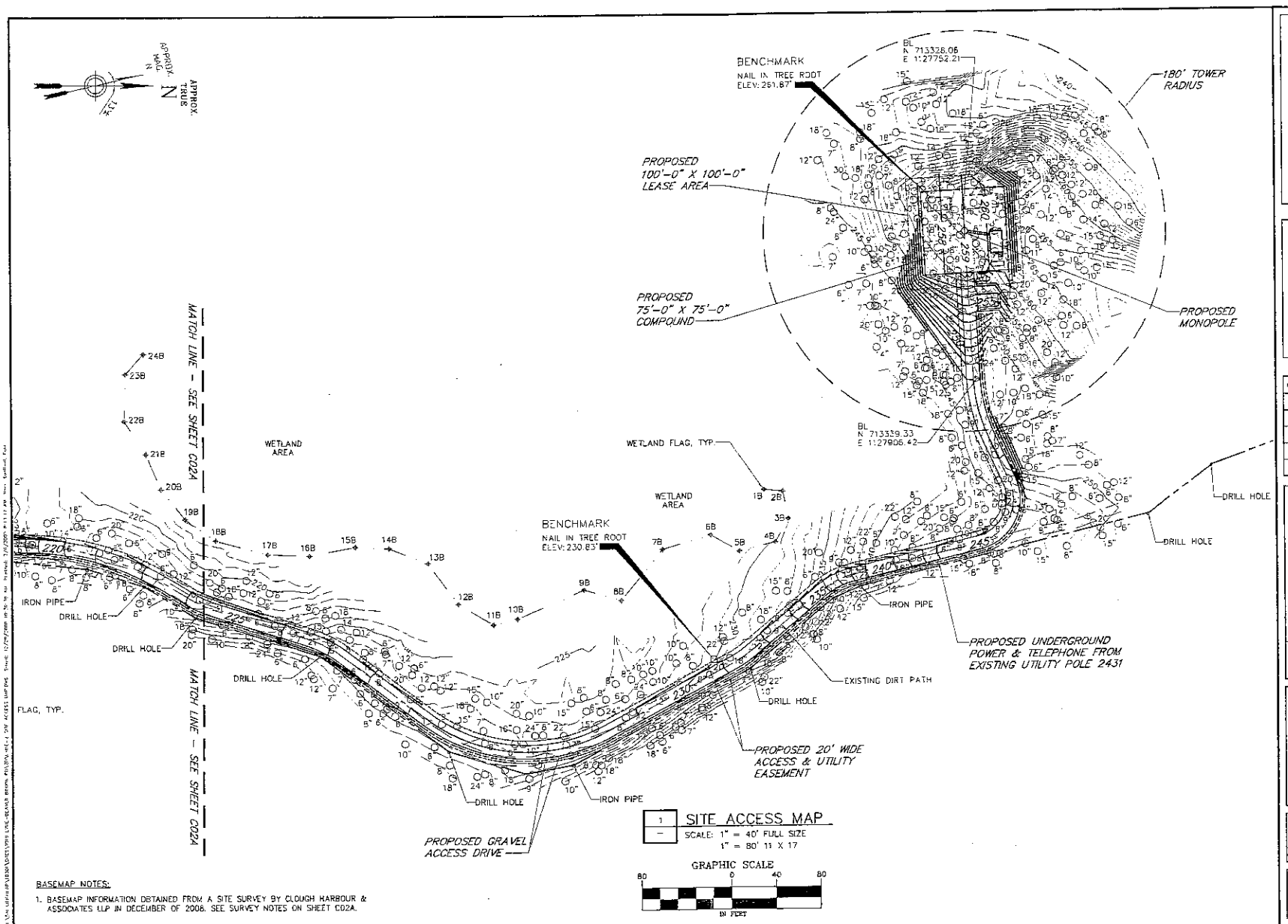
SITE ID:
SR1836

SITE NAME:
LYME-BEAVER BROOK RD

SITE ADDRESS:
322 BEAVER BROOK ROAD
LYME, CT
06371
NEW LONDON COUNTY

SHEET TITLE
SITE ACCESS MAP
SOUTH SECTION

SHEET NUMBER
C02A



BASEMAP NOTES:

1. BASEMAP INFORMATION OBTAINED FROM A SITE SURVEY BY CLOUGH HARBOUR & ASSOCIATES LLP IN DECEMBER OF 2006. SEE SURVEY NOTES ON SHEET C02A.

at&t
Your world. Delivered.

NEW CINGULAR WIRELESS PCS, LLC
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067

CHA
CLOUGH HARBOUR & ASSOCIATES LLP
2139 Silas Deane Highway, Suite 212 · Rocky Hill, CT 06067-2336
Main: (860) 257-4527 · www.cloughharbour.com

CHA PROJECT NO:
18301 – 1019 – 1601

NO.	SUBMITTAL		
0	12/24/08	ISSUED FOR CSC CERTIFICATE	
	BY: PAL	CHK: PAL	APP'D: JPS

"IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT."

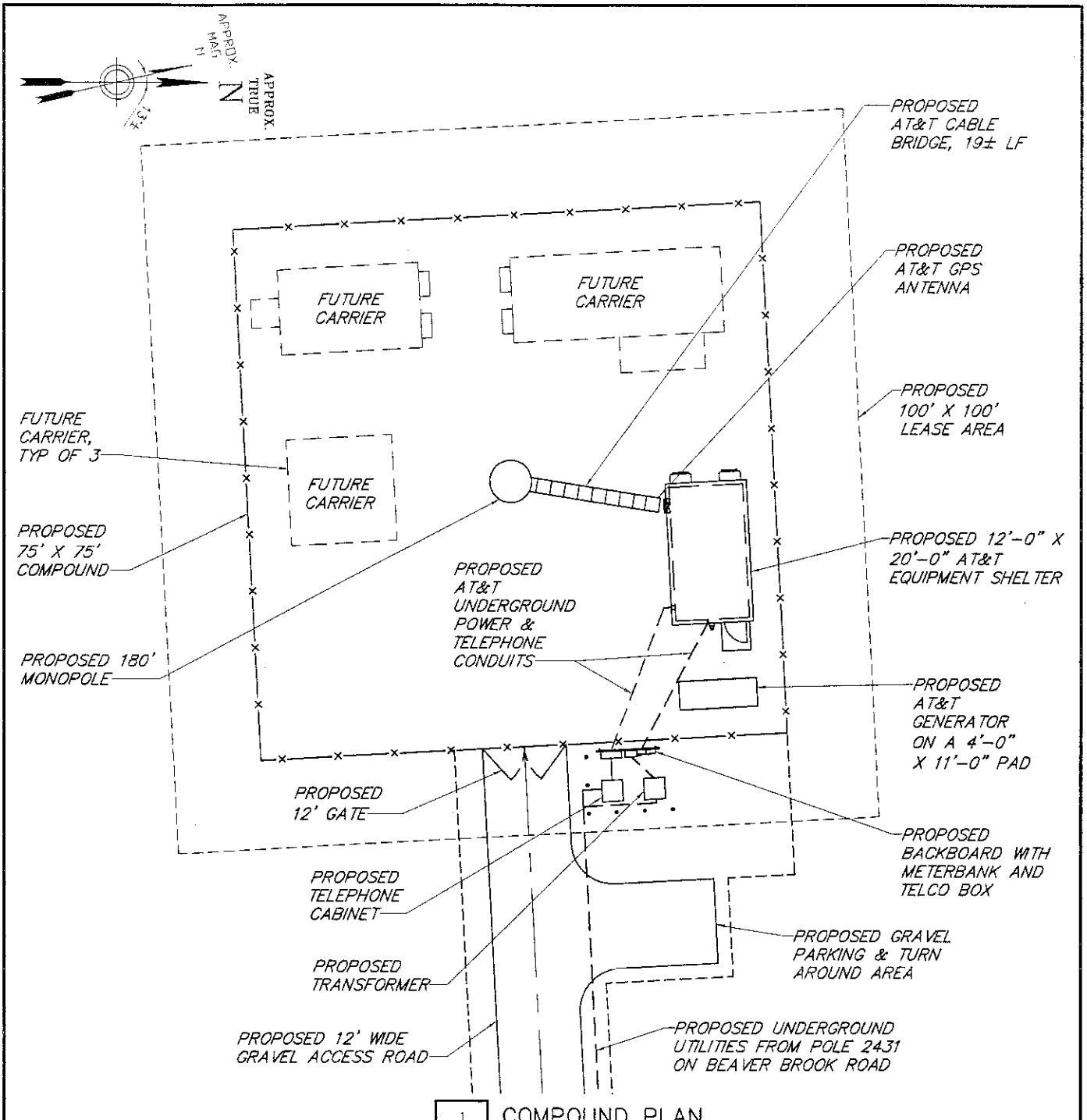
SITE ID:
SR1836

SITE NAME:
LYME–BEAVER BROOK RD

SITE ADDRESS:
322 BEAVER BROOK ROAD
LYME, CT
06371
NEW LONDON COUNTY

SHEET TITLE
SITE ACCESS MAP
NORTH SECTION

SHEET NUMBER
C02B



1 COMPOUND PLAN
– SCALE: 1" = 20'

GRAPHIC SCALE
20 0 10 20
IN FEET

BASEMAP NOTES:

1. BASEMAP INFORMATION OBTAINED FROM A SURVEY PERFORMED BY CLOUGH HARBOUR & ASSOCIATES LLP IN DECEMBER 2008.

CLOUGH HARBOUR & ASSOCIATES LLP
2139 Silas Deane Highway, Suite 212 · Rocky Hill, CT 06067-2336
Main: (860) 257-4557 · www.cloughharbour.com

at&t Your world, Delivered.
NEW CINGULAR WIRELESS PCS, LLC
500 ENTERPRISE DRIVE, ROCKY HILL, CT 06067

SR1836
LYME-BEAVER BROOK ROAD
322 BEAVER BROOK ROAD
LYME, CT 06371
NEW LONDON COUNTY

CHA PROJ. NO. – 18301-1019

SHEET TITLE:
COMPOUND PLAN

DATE:
12/24/08

REVISION:
0

Site Number: SR1836
Site Name: LYME-BEAVER BROOK ROAD
Site Address: 322 BEAVER BROOK ROAD, LYME, CT 06371

Access distances:

Distance of access over new gravel driveway: 1,833'
Total distance of site access: 1,833'

Distance to Nearest Wetlands:

Nearest compound corner: The closest wetlands are 230' to the Southeast
Nearest compound grading: The closest wetlands are 214' to the Southeast
Nearest road edge: The closest wetlands are 50' to the West

Distance to Property Lines:

1,696' to the northern property boundary
1,403' to the southern property boundary
1,589' to the western property boundary
286' to the eastern property boundary

Residence Information:

There are 0 residences within 1,000' feet of the tower. The closest residence is 1,320' to the West.

Tree Removal Count:

Sixteen 6" Trees
Eleven 7" Trees
Twenty-Five 8" Trees
Eight 9" Trees
Eight 10" Trees
One 11" Tree
Eleven 12" Trees
One 14" Tree
Seven 15" Trees
Five 18" Trees
One 21" Tree
Three 24" Trees
One 36" Tree
98 TOTAL TREES

December 24, 2008

New Cingular Wireless PCS, LLC
500 Enterprise Drive
Rocky Hill, CT 06067

RE: Tree Inventory
Site: Lyme-Beaver Brook Road
322 Beaver Brook Road
Lyme, CT 06371
CHA # 18301-1019-1601

A site survey was completed at the subject site in December of 2008. A requirement of the survey involved determining the location of all trees within the topographic survey area with a diameter at breast height of 6" or larger. As can be seen on the site access map, there are ninety-eight (98) trees with a diameter of 6" or larger within the area of the proposed access road and compound which need to be removed for construction of the facility. The quantity and size of trees being removed is summarized in the below table:

Tree Diameter	Number of Trees to be Removed
6"	16
7"	11
8"	25
9"	8
10"	8
11"	1
12"	11
14"	1
15"	7
18"	5
21"	1
24"	3
36"	1
TOTAL	**98**

If you have any questions, comments or need further information, please do not hesitate to contact our office.

Very truly yours,

CLOUGH HARBOUR & ASSOCIATES LLP

Paul Lusitani

Paul Lusitani
Project Engineer

W:\SAI Cingular\18301\Sites\1019 Lyme-Beaver Brook Rd\ZD\LYME-10 TREE INVENTORY.doc

Site Evaluation Report

I. LOCATION

A. COORDINATES: 41^0-25'- 04.4" N
72^0- 17'- 02.9" W

B. GROUND ELEVATION: 259' AMSL

C. USGS MAP: Hamburg Quadrangle

D. SITE ADDRESS: 322 Beaver Brook Road and 27 Gungy Road

E. ZONING WITHIN 1/4 MILE OF SITE: The land in/around the area of the site is zoned RU-80 (residential)

II. DESCRIPTION

A. SITE SIZE: 75' by 75'

B. LESSOR'S PARCEL: 100.85 acre tower site & 1.0 acre access parcel

C. TOWER TYPE/HEIGHT: Monopole /180 feet AGL.

D. SITE TOPOGRAPHY AND SURFACE: The parcel is sloped from the site down towards Beaver Brook Road. Soil mapping for this area of Connecticut indicates that the uplands soil in this area consists of Charlton soils and Hollis fine sandy loam and rock outcrop. Wetland soils in the area consists of Ridgebury complex (Rn) fine sandy loam, Leceister Soils and Whitman soils. The proposed access drive would traverse over existing ledge.

E. SURROUNDING TERRAIN, VEGETATION, WETLANDS, OR WATER: The surrounding terrain ranges in elevation from approximately 50' AMSL to 450' AMSL. The surrounding area is defined by rolling hills and heavy vegetation. The site does host a delineated wetland area which at its closest point is 50' from the proposed access drive and 214' to the southeast of the nearest compound grading. No wetland resources would be impacted by the proposed facility.

F. LAND USE WITHIN 1/4 MILE OF SITE: Land use in the general vicinity of the site consists primarily of single family residential properties.

III. FACILITIES

A. POWER COMPANY: Connecticut Light and Power

B. POWER PROXIMITY TO SITE: Facilities available from Beaver Brook Road.

C. TELEPHONE COMPANY: AT&T

D. PHONE SERVICE PROXIMITY: Same as power.

E. VEHICLE ACCESS TO SITE: Proposed 1,833' long, 12' wide gravel access drive from Beaver Brook Road in location of an existing dirt path.

F. OBSTRUCTIONS: None

G. CLEARING AND FILL REQUIRED: The compound and access drive would require grading, though no fill is anticipated. Approximately 98 total trees 6" dbh or greater would be removed. Detailed plans would be included in a Development and Management Plan ("D&M" plan) after any approval as may be issued by the Connecticut Siting Council.

IV. LEGAL

A. PURCHASE [ ] LEASE [X]

B. OWNER: Ruth E. Young

C. ADDRESS: 322 Beaver Brook Road, Lyme Connecticut

D. DEEDS ON FILE AT: Town of Lyme
- 322 Beaver Brook: Vol. 55; page 372
- 27 Gungy Road: Vol. 73; page 332

Facilities and Equipment Specification

I. TOWER SPECIFICATIONS:

A. MANUFACTURER: (TBD)

B. TYPE: Self-Supporting monopole

C. HEIGHT: 180 feet
DIMENSIONS: Approx. 4 ½ ' at the base
Approx. 2' at the top

D. LIGHTING: None as set forth in TOWAIR report attached.

II. TOWER LOADING:

A. AT&T – up to 6 panel Antennas, along with 6 Tower-mounted Amplifies ("TMAs") and 6 Diplexers
1. Model – Powerwave 7770.00 or equivalent panel antenna
2. Antenna Dimensions – 55"H x 11"W x 5"D
3. Position on Tower – 177' centerline mounted on low profile platform
4. Model – Powerwave Diplex Filter DCT
5. TMA Dimensions – 14" x 7" x 2.7"
6. Model – Powerwave Diplex Filter DCT

B. Future Carriers: (TBD)

III. ENGINEERING ANALYSIS AND CERTIFICATION:

The tower will be designed in accordance with American National Standards Institute TIA/EIA-222-F "Structural Standards for Steel Antenna Towers and Antenna Support Structures" and the 2003 international Building Code with 2005 Connecticut Amendment. The foundation design would be based on soil conditions at the site. The details of the tower and foundation design will be provided as part of the final D&M plan.

Environmental Assessment Statement

I. PHYSICAL IMPACT

A. WATER FLOW AND QUALITY

No water flow and/or water quality changes are anticipated as a result of the construction or operation of the proposed Site B facility. The construction and operation of the tower and related site improvements will have no adverse effect on any on-site or off-site watercourses or water bodies. Best Management Practices will be utilized to control storm water runoff and soil erosion during construction. The equipment associated with the facility will discharge no pollutants to area surface or groundwater systems.

B. AIR QUALITY

Under ordinary operating conditions, the equipment that would be used at the proposed facility would emit no air pollutants of any kind.

C. LAND

Grading of the compound area and access drive would be required. Approximately 98 trees of 6" DBH or greater would be removed for construction of the proposed facility and access drive.

D. NOISE

The equipment to be in operation at the facility would emit some noise associated with operation of the installed ventilation system(s) with no impacts to adjoining property owners. Some construction related noise would be anticipated during facility construction, which is expected to take approximately four to six weeks.

E. POWER DENSITY

The worst-case calculation of power density from AT&T Wireless' operations at the facility would be 4.3% of the MPE standard. Attached is a copy of AT&T's MPE Report dated January 15, 2009.

F. VISIBILITY

The potential visual impact of the proposed facility was determined by preparation of the attached Visual Analysis Report prepared by Clough Harbour & Associates LLP in January 2009. The potential visibility of the proposed monopole was assessed within an approximate two-mile radius using a computed model including topography and vegetation as constraints to estimate the visual limits and field analysis to verify visual limits determined from the computer model. As shown in the report and photosimulations included in Section 5, less than 1% of the over 8,000 acre study area would have year-round or seasonal views of the proposed facility. While most of the

visibility occurs within the surrounding residential area, the wooded area surrounding the proposed facility will act as a visual buffer to adjacent residential and wooded parcels.

II. SCENIC, NATURAL, HISTORIC & RECREATIONAL VALUES

The parcel on which the facility is located and the nearby areas exhibit no specifically listed scenic, natural, or recreational characteristics. The Connecticut State Historic Preservation Officer (SHPO) has been contacted for their review of any effect on historic, architectural, or archeological resources. By letter dated January 13, 2009, SHPO recommended that a Phase I archaeological investigation be completed given nearby sites where pre-historic archaeological artifacts had been located. AT&T's consultants have since completed that survey which is included, along with SHPO's January 2009 correspondence, in Attachment 7 of this application. No artifacts were recovered, no archaeological sites were recorded and no other evidence of prehistoric or historic resources was discovered. This information has been forwarded to SHPO for their review. In addition, t'he Department of Environmental Protection (CTDEP) Natural Diversity Database maps have also been reviewed for the proposed site and confirm the lack of any known endangered or threatened species on the site.

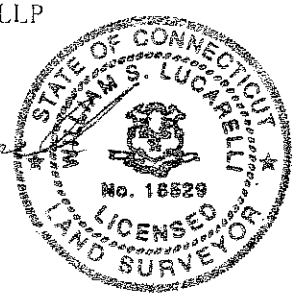
FAA 2-C SURVEY CERTIFICATION

Site Name:	Lyme-Beaver Brook Road		
Site Number:	SR1836		
Site Address:	322 Beaver Brook Road Lyme, CT 06371		
Horizontal Datum:	NAD 83	X GPS survey	☐ Ground survey
Vertical Datum:	NAVD 1988 (AMSL)	X GPS survey	☐ Ground survey
Structure Type:	X Proposed Tower	☐ Existing Tower	☐ Roof Top
	☐ Water Tank	☐ Smoke Stack	☐ Other:
Latitude:	41°-25'-04.4" N		
Longitude:	72°-17'-02.9" W		
Average Ground Elevation:	259' AMSL Elevation (in feet)		
Proposed Tower Height:	180' (AGL)		

Certification: I certify that the latitude of 41°-25'-04.4"N and the longitude of 72°-17'-02.9"W are accurate to within +/- 50 feet horizontally, and that the site elevation of 259' AMSL is accurate to within +/- 20 feet vertically. The horizontal datum (coordinated) are in terms of the North American Datum of 1983 (NAD 83) and are expressed in degrees, minutes and seconds, to the nearest tenth of a second. The vertical datum is in terms of the North American Vertical Datum of 1988 (NAVD 88) and is determined to the nearest foot.

Company: Clough Harbour and Associates, LLP
Project number 18301-1019

Surveyor Signature/Seal: William S. Lucarelli
CT L.S. 16529



Date: January 8, 2009

TOWAIR Determination Results

HELP

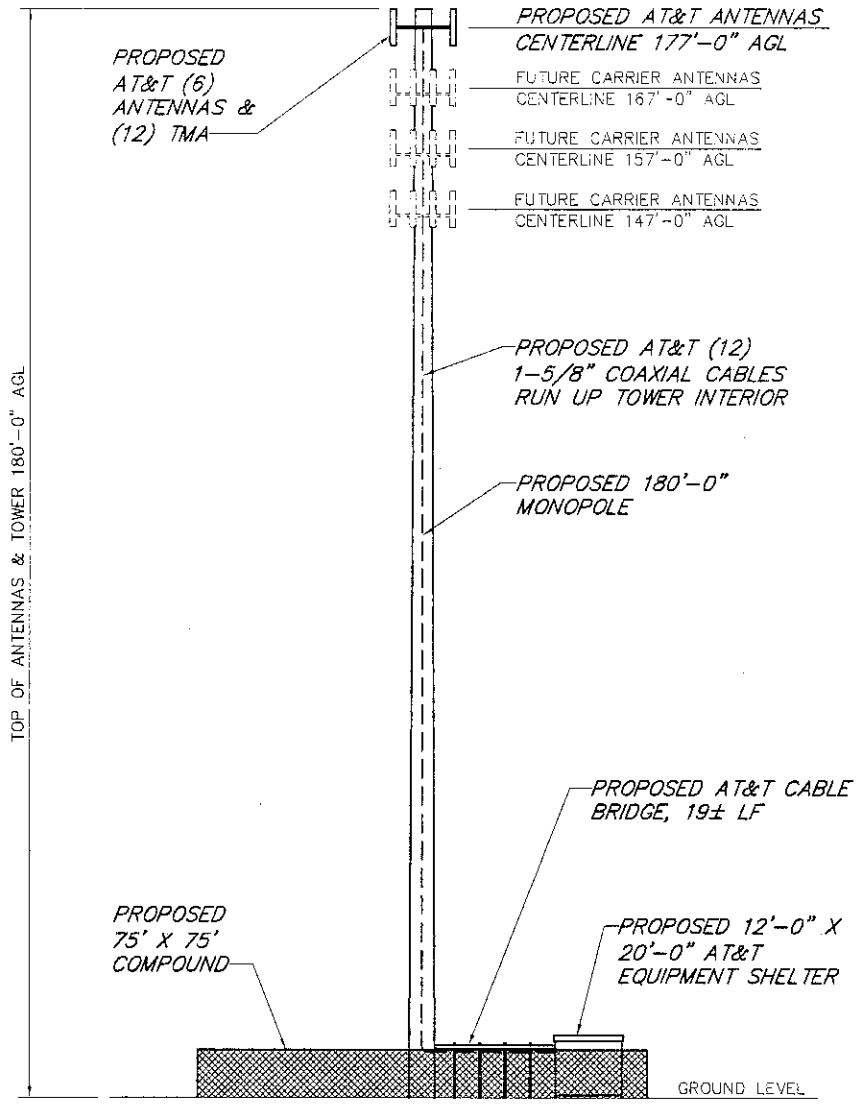
New Search Printable Page

*** NOTICE ***

TOWAIR's findings are not definitive or binding, and we cannot guarantee that the data in TOWAIR are fully current and accurate. In some instances, TOWAIR may yield results that differ from application of the criteria set out in 47 C.F.R. Section 17.7 and 14 C.F.R. Section 77.13. A positive finding by TOWAIR recommending notification should be given considerable weight. On the other hand, a finding by TOWAIR recommending either for or against notification is not conclusive. It is the responsibility of each ASR participant to exercise due diligence to determine if it must coordinate its structure with the FAA. TOWAIR is only one tool designed to assist ASR participants in exercising this due diligence, and further investigation may be necessary to determine if FAA coordination is appropriate.

DETERMINATION Results	
Structure does not require registration. There are no airports within 8 kilometers (5 miles) of the coordinates you provided.	
Your Specifications	
NAD83 Coordinates	
Latitude	41-25-04.4 north
Longitude	072-17-02.9 west
Measurements (Feet)	
Overall Structure Height (AGL)	180
Support Structure Height (AGL)	180
Site Elevation (AMSL)	259
Structure Type	
TOWER - Free standing or Guyed Structure used for Communications Purposes	

Tower Construction Notifications
Notify Tribes and Historic Preservation Officers of your plans to build a tower.



1 — TOWER ELEVATION

SCALE: 1" = 30'

GRAPHIC SCALE

30 0 15 30

IN FEET

CLOUGH HARBOUR & ASSOCIATES LLP
2139 Silas Deane Highway, Suite 212 · Rocky Hill, CT 06067-2336
Main: (860) 257-4557 · www.cloughharbour.com

at&t
Your world.Delivered.

NEW CINGULAR WIRELESS PCS, LLC
500 ENTERPRISE DRIVE, ROCKY HILL, CT 06067

SR1836
LYME-BEAVER BROOK ROAD
322 BEAVER BROOK ROAD
LYME, CT 06371
NEW LONDON COUNTY

CHA PROJ. NO. – 18301-1019

SHEET TITLE:
TOWER ELEVATION

DATE:
12/24/08

REVISION:
0

The new at&t Your world. Delivered. cingular raising the bar

New Cingular Wireless PCS, LLC
500 Enterprise Drive
Rocky Hill, Connecticut 06067-3900
Phone: (413) 218-5042
Fax: (860) 513-7190

David W. Vivian
Real Estate Consultant

January 15, 2009

TO: Atty Chris Fisher

FROM: David Vivian

RE: Power Density Calculation for Antennas on a Proposed Tower at 322 Beaver Brook Road, Lyme, CT

The cumulative worst-case power density for this site in accordance with FCC OET Bulletin No. 65 (1997) for a point of interest at ground level beside the tower follows.

This worst-case calculation assumes all channels working simultaneously at full power with the antennas facing directly downward.

	Centerline Ht (feet)	Frequency (MHz)	Number of Channels	Power Per Channel (Watts)	Power Density (mW/cm^2)	Standard Limits (mW/cm^2)	Percent of Limit
AT&T GSM	177	1900 Band	2	427	0.0098	1.0000	0.98
AT&T GSM	177	880 - 894	4	296	0.0136	0.5867	2.32
AT&T UMTS	177	880 - 894	1	500	0.0057	0.5867	0.98
Total							4.3%

C&F:

BL Companies

February 11, 2009

Mr. Paul Lusitani
Clough Harbour & Associates. LLP
2139 Silas Deane Highway
Rocky Hill, CT 06067-2342

RE: Wetland & Watercourse Delineation Report
SR1836
322 Beaver Brook Road
Lyme, Connecticut

Dear Mr. Lusitani,

BL Companies completed an on-site investigation to determine the presence or absence of wetlands and/or watercourses on the above referenced property (322 Beaver Brook Road, CT), as requested and authorized. This investigation involved a wetland/watercourse delineation that was completed by a qualified soil scientist and conducted in accordance with the principles and practices noted in the United States Department of Agriculture (USDA) Soil Survey Manual (1993). The soil classification system of the National Cooperative Soil Survey was used in this investigation to identify the soil map units present on the project site. There are two tower location alternatives for this site, a southern alternative and a northern alternative. Wetlands were investigated for each alternative tower location and the proposed access road to each.

INVESTIGATION

The project site was investigated on December 1, 2008, with a temperature in the high-40s under partly sunny conditions. Soil types are identified by observing soil morphology (soil texture, color, structure, etc.). To observe the morphology of the soils, numerous test pits and/or hand borings (generally to a depth of at least two feet) are completed. Wetland and watercourse boundaries were identified with flags and hung from vegetation. These flags are labeled "Wetland Delineation" and generally spaced a maximum of 50 feet apart. It is important to note that flagged wetland and watercourse boundaries are subject to change until verified by local, state, or federal regulatory agencies.

REGULATORY INFORMATION

Wetlands and watercourses are regulated by both state and federal law each with different definitions and regulatory requirements. Accordingly, the State may regulate waters that fall outside of federal jurisdiction; however, where federal jurisdiction exists concurrent State jurisdiction is almost always present.

State Regulation

Wetland determinations are based on the presence of poorly drained, very poorly drained, alluvial, or floodplain soils and submerged land. *Watercourses* are defined as "rivers, streams, brooks, waterways, lakes, ponds, marshes, swamps, bogs and all other bodies of water, natural or artificial, vernal or intermittent, public or private, which are contained within, flow through or border upon the state or any portion thereof." *Intermittent watercourse* determinations are made based on the presence of a defined permanent channel and bank, and two of the following characteristics: (1) evidence of scour or deposits of recent alluvium or detritus, (2) the presence of standing or flowing water for a duration longer than a

particular storm incident, and (3) the presence of hydrophytic vegetation. (See Inland Wetlands and Watercourses Act §22a-38 CGS.)

WETLAND AND WATERCOURSE SITE DESCRIPTION

Wetland classifications used to identify the type of wetland(s) occurring on the project site are based on guidance from the U.S. Fish and Wildlife Service (USFWS) (Cowardin et.al. 1979), which provides a classification for the National Wetland Inventory (NWI).

Wetland Description

Four on-site wetlands were delineated during the December 1st, 2008 visit. Wetland A consists of a palustrine broad-leaved deciduous forested wetland system (NWI class: PFO1) that was delineated using sequentially numbered flags BL-1A through BL-5A with open ends on each end (see attached Wetland Sketch Map). Wetland A is situated on the northern side of the northern tower alternative site at the base of a steep ledge area. The wetland is associated with a small boulder field. During the delineation only the southern edge of the wetland was flagged as no activity is expected to the north of this wetland.

Wetland B consists of a palustrine broad-leaved deciduous forested wetland system (NWI class: PFO1). This wetland is associated with a riverine intermittent unconsolidated bottom cobble/gravel watercourse (NWI class: R4UB1), which flows to the south. The flags that mark this wetland include flags BL-1B through BL-31B with open ends on each end (see attached Wetland Sketch Map). As indicated by its classification, this wetland is primarily set in a broad-leaved deciduous forest area that is fed by groundwater and some surface water runoff from adjacent uplands. Wetland A is situated on the southern side of the northern tower alternative site, and to the north and west of the southern tower alternative site. This wetland is associated with a large boulder field. The vegetation within this forested wetland is relatively open and consists primarily of deciduous trees with scattered areas of woody shrubs and herbaceous vegetation. During the delineation only the northern and eastern boundary of this wetland area at its closest point to the two alternative tower sites was delineated since no activity is proposed to the south or west of the wetland.

Wetland C consists of a palustrine broad-leaved deciduous forested wetland system (NWI class: PFO1) that was delineated using sequentially numbered flags BL-1C through BL-7C with open ends on each end (see attached Wetland Sketch Map). This wetland is associated with a riverine intermittent unconsolidated bottom cobble/gravel watercourse (NWI class: R4UB1), which flows to the south. Wetland C is situated on the eastern side of the proposed access road to the east of the southern tower alternative location. The wetland is associated with a small boulder field in a low swale depression. During the delineation only the western edge of the wetland was flagged as no activity is expected to the east of this wetland.

Wetland D consists of a palustrine broad-leaved deciduous forested wetland system (NWI class: PFO1) and a small palustrine open water (NWI class: POW) wetland that was delineated using sequentially numbered flags BL-1D through BL-11D with open ends on each end (see attached Wetland Sketch Map). Wetland D is situated on the eastern side of the proposed access road to the southeast of the southern tower alternative location. The wetland is located in a shallow, broad depression in the landscape. During the delineation only the western edge of the wetland was flagged as no activity is expected to the east of this wetland.

TABLE 1: Predominate Vegetation within and adjacent to the wetlands

TREES & SAPLINGS
Black gum (*Nyssa sylvatica)*
Red maple *(Acer rubrum*)
Green ash (*Fraxinus pensylvanica*)
Witch hazel *(Hamamelis virginiana)*
Yellow birch *(Betula alleghaniensis*)

SHRUBS
Sweet pepper bush (*Clethra alnifolia)*
Highbush blueberry (*Vaccinium corymbosum)*
Swamp azalea (*Rhododendron viscosum*)
Spicebush (*Lindera benzoin*)
Mountain laurel (*Kalmia latifolia*)
Winterberry (*Ilex verticillata*)

HERBS/VINES
Green brier *(Smilax rotundifolia)*
New York fern (*Thelypteris noveboracensis*)
Cinnamon fern *(Osmunda cinnamomea)*
Woodfern *(Dryopteris* sp.)
Marsh fern (*Thelypteris palustris*)
Lady fern (*Athyrium Filix-femina*)
Skunk cabbage (*Symplocarpus foetidus*)
Tussock Sedge *(Carex stricta*)
Sphagnum moss *(Sphagnum* sp.)

SOIL MAP TYPES

A brief description of each soil map unit identified on the project site is presented below including information from the Untied States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) soil descriptions. For further information on these and other soils, please refer to the internet site http://soils.usda.gov/technical/classification/osd/index.html).

Upland Soils

Charlton Soils

The Charlton series is a Typic Dystrudept consisting of very deep, well drained loamy soils formed in till. The series is typically found on nearly level to very steep soils on till plains and hills with slopes that range from 0 to 50 percent. Saturated hydraulic conductivity is moderately high or high. The diagnostic horizons and features recognized in this pedon include an ochric epipedon in the zone from 0 to 4 inches (Oe & A horizon) and a cambic horizon in the zone from 4 to 27 inches (Bw horizons). The particle-size class of this series is described as coarse-loamy with sizes in the control section from 10 to 40 inches. The very stony and extremely stony analogues of this series exist on the site.

Hollis fine sandy loam and rock outcrop

The Hollis series consists of shallow, well drained and somewhat excessively drained soils formed in a thin mantle of till derived mainly from gneiss, schist, and granite. They are nearly level to very steep upland soils on bedrock-controlled hills and ridges. Slopes range from 15-45 percent. Diagnostic horizons and features recognized in this pedon include an ochric epipedon (0 to 7 inches), cambic horizon (7 to 16 inches) and lithic contact (hard bedrock at 16 inches). The very stony and extremely stony analogues of this series exist on the site.

Wetland Soils

Ridgebury Complex (Rn) fine sandy loam

The Ridgebury complex is a very deep poorly drained soil that includes poorly drained Leicester, and very poorly drained Whitman soils formed in till derived mainly from granite, gneiss and schist. Ridgebury soils on the landscape are in slightly concave areas and shallow drainageways of till uplands with slopes that range from 0-8 percent. Depth to the perched seasonal high water table from November to May, or longer, is perched above the densic materials. The soils diagnostic horizons include an ochric epipedon (0 to 5 inches (A horizon)), aeric feature 100 percent of the zone from 5 to 9 inches (Bw1 horizon), and a cambic horizon (5 to 18 inches (Bw and Bg horizons)). Densic contact root limiting material begins at 18 inches (Cd). Endosaturation occurs within the zone from 9 to 18 inches and is saturated above the densic contact (Bw2 horizon). The very stony and extremely stony analogues of this series exist on the site.

Leicester Soils

The Leicester series consists of very deep, poorly drained loamy soils formed in friable till. They are nearly level or gently sloping soils in drainage ways and low-lying positions on hills. Slope ranges from 0 to 8 percent. Permeability is moderate or moderately rapid in the surface layer and subsoil and moderate to rapid in the substratum. The horizons and features recognized in this pedon are an ochric epipedon in the zone from 1 to 7 inches (A horizon) and a cambic horizon in the zone from 7 to 23 inches (Bg and BC horizons). There is also an aquic moisture regime as indicated by chroma of 2 in Bg horizon but with chroma too high within 30 inches (chroma 3 in BC horizon) to qualify for Typic Endoaquepts. This series also contains an endoadquepts subgroup based on saturation to a depth of 200 cm from the mineral soil surface. There is an aeric great group based on matrix color and a chroma of 3 or more in one subhorizon between the Ap and 75 cm. (BC horizon) and the particle-size class in control section ranges from 10 to 40 inches and is considered coarse loamy type of soil. The very stony and extremely stony analogues of this series exist on the site.

Whitman Soils

The Whitman series consists of very deep, very poorly drained soils formed in glacial till derived mainly from granite, gneiss, and schist. They are shallow to a densic contact. These soils are nearly level or gently sloping soils in depressions and drainageways on uplands. Permeability is moderate or moderately rapid in the solum and slow or very slow in the substratum. The diagnostic horizons and features in this pedon include an umbric epipedon in the zone from the soil surface to a depth of 10 inches (Ap horizon) and a cambic horizon in the zone from 10 to 18 inches (Bg horizon). This soil also has aquic conditions as evidenced by a chroma of 1 in the Bg horizon. A densic contact is also present with the root limiting layer begining at 18 inches. Whitman soils are considered to have a shallow depth class because the depth to the densic contact is less than 20 inches (Cd1 is at 18 inches). The very stony and extremely stony analogues of this series exist on the site.

REFERENCES

Cowardin, L.M., V. Carter, F.C. Golet, E.T. LaRoe. 1979. Classification of Wetland and Deepwater Habitats of the Untied States. US Government Printing Office. Washington D.C. GPO 024-010-00524-6. 131 pp.

CLOSING

With the appropriate soil erosion and sedimentation controls in place, there would be no anticipated negative impacts to any wetland/watercourse resources as a result of the project. No wetland resources are located on the site.

Thank for the opportunity to work with you on this project. Please contact me at 800-301-3077 Ext.4202 if you have any questions or require additional assistance.

Very truly yours,

BL COMPANIES

Daniel A. Hageman
Professional Soil Scientist

Enclosures

(This page intentionally left blank.)

Reserved for
Exhibit # 4

Visual Analysis Report

Proposed Telecommunications Facility

Site A:
160' Monopole
482 Grassy Hill Road
Lyme, CT 06371

Site B:
180' Monopole
322 Beaver Brook Road
Lyme, CT 06371

January 2009 - Revision 0

Prepared for:
New Cingular Wireless PCS, LLC
500 Enterprise Drive
Rocky Hill, CT 06067

Prepared by:
Clough Harbour & Associates LLP
2139 Silas Deane Highway, Suite 212
Rocky Hill, CT 06067
CHA Project 18301-1009-1601
18301-1019-1601

INTRODUCTION:

Clough Harbour & Associates LLP (CHA) conducted a visibility study for the proposed 160'-0" monopole located at Site A and the proposed 180'-0" monopole Site B in Lyme, 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 of both Site A and Site B. Another purpose of the study was to compare the visual impact for both Site A and Site B to determine which location will have a more substantial impact on the surrounding community. Two techniques were utilized to determine the visual impact within the study area for both Site A and Site B: 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. The results of this analysis were then compared for the two sites. Research of the study area was also conducted to determine locations of sensitive visual receptors for both Site A and Site B.

SITE & STUDY AREA DESCRIPTION:

The subject parcel for Site A is approximately 4.05 acres. A majority of the parcel is a field with one residence in the approximate southeast section of the parcel. The proposed facility is located within in the Northern portion of the parcel approximately 220' NE of the existing residence. The base of the tower will be 126' AMSL. The small wooded area surrounding the proposed facility will provide some visual buffer to the adjacent residential and wooded parcels.

The subject parcel for Site B is approximately 100.85 acres. A majority of the parcel is wooded with a nearby residence to the south on the adjacent parcel on Beaver Brook Road and some wetland areas in the middle and east sections of the parcel. The proposed facility is located on the center portion of the property in the wooded area just northwest of the center wetland. The proposed facility is located approximately 1320' northwest of the existing residence. The base of the tower will be 259' AMSL. The wooded area surrounding the proposed facility will act as a visual buffer to the adjacent residential and wooded parcels.

For both Site A and Site B, the topography within the study area consists of hills ranging from 50' AMSL to 450' AMSL. Approximately 6,916 acres, or 86%, of the 8,053 acre study area is covered with vegetation. The rolling hills and heavy vegetation in the study area will help screen the facility in the surrounding study area. Watercourses occupy approximately 170 acres, or 2%, of the study area. There are no historical sites, three parks/recreational areas, no schools, and six cemeteries or churches within the study area. There are no designated scenic roads within the study area. There is one trail located in Nehantic State Forest and eight trails located in Hartman Park.

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

elevation models (DEM), which is a model of the earth's surface represented by a grid of elevations spaced 10 or 30 meters and is based on USGS topography maps. Each point in the DEM is independently tested for visibility based on the surrounding topography developed form 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. The visible areas on the map based on the surrounding topography and vegetation will be verified during the field visual analysis.

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, beaches, and scenic roads. Historic sites and districts were determined from national and state registers. Surrounding schools, churches, cemeteries, parks, playgrounds, recreational areas, and beaches were determined from street maps and town GIS data. Scenic roads were determined from the CTDOT list of designated scenic roads. All of the above sensitive visual receptors were added to the viewshed map.

FIELD VISUAL ANALYSIS:

On November 3, 2008 a field visual analysis was conducted on Site A 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 0 and 3 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 160'-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.

On January 6, 2009 a field visual analysis was conducted on Site B 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 5 and 10 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 180'-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

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.

CONCLUSION:

The results of our visual study are summarized in the following attachments: Attachment A: Site A Viewshed Map, Attachment B: Site A Photosims, Attachment C: Site B Viewshed Map, and Attachment D: Site B Photosims. The results are also summarized in a comparative format in the below chart:

VISUAL COMPARISON CHART					
ITEM	**SITE A**		**SITE B**		**LEAST VISUAL IMPACT**
1. RESIDENCE COUNT					
YEAR ROUND VISIBILITY					
Grassy Hill Road	1		0		Site B
Beaver Brook Road	4		4		Neither
SEASONAL VISIBILITY					
Beaver Brook Road	6		2		Site B
Gungy Road	2		0		Site B
2. NON-VISIBLE AREAS	Acres	%	Acres	%	
Screened by Topography	4409	55%	4011	49.8%	Site A
Screened by Vegetation	3586	44%	3991	49.50%	Site B
3. VISIBLE AREAS	Acres	%	Acres	%	
Year Round Visibility	30	<1%	45	<1%	Site A
Seasonal Visibility	28	<1%	6	<1%	Site B
4. VISUAL RECEPTORS					
Parks/Recreational Areas	0		0		N/A
Churches / Cemeteries	0		1		Site A
Trails	0		0		N/A

VIEWPOINT COMPARISON CHART				
VIEWPOINT	SITE A		SITE B	
	VISIBLE	DESCRIBE	VISIBLE	DESCRIBE
1	Yes	Upper 50' of Tower Year Round, Lower 100' Seasonally	No	None
2	Yes	Upper 70' of Tower Year Round, Middle 60' Seasonally	No	None
3	Yes	Upper 40' of Tower Year Round	No	None
4	Yes	Majority of Tower, Seasonally	Yes	Upper 30' of Tower Seasonally
5	Yes	Upper 50' of Tower, Seasonally	No	None
6	No	None	No	None
7	Yes	Upper 100' of Tower, Seasonally	No	None
8	Yes	Upper 70' of Tower, Seasonally	Yes	Upper 30' Seasonally
9	No	None	No	None
10	No	None	No	None
11	No	None	Yes	Upper 90' Year Round
12	No	None	Yes	Upper 20' Year Round, Upper 40' Seasonally
13	No	None	No	None
14	No	None	No	None
15	No	None	No	None

Most of the impact for both sites occurs within the surrounding residential neighborhoods. For year round residential impact, Site B will impact one less home on Grassy Hill Road and both sites will impact four homes on Beaver Brook Road. For seasonal visual impact, Site B will impact four less homes on Beaver Brook Road and two less homes on Gungy Road. Site B is preferable to the other based on residential impact.

Both sites also have similar acreages screened by topography and vegetation: Site A has slightly more acreage screened by topography and Site B has slightly more acreage screened by vegetation. The differences in areas screened by vegetation or topography are minimal and neither site is highly preferable to the other based on areas screened by vegetation and topography.

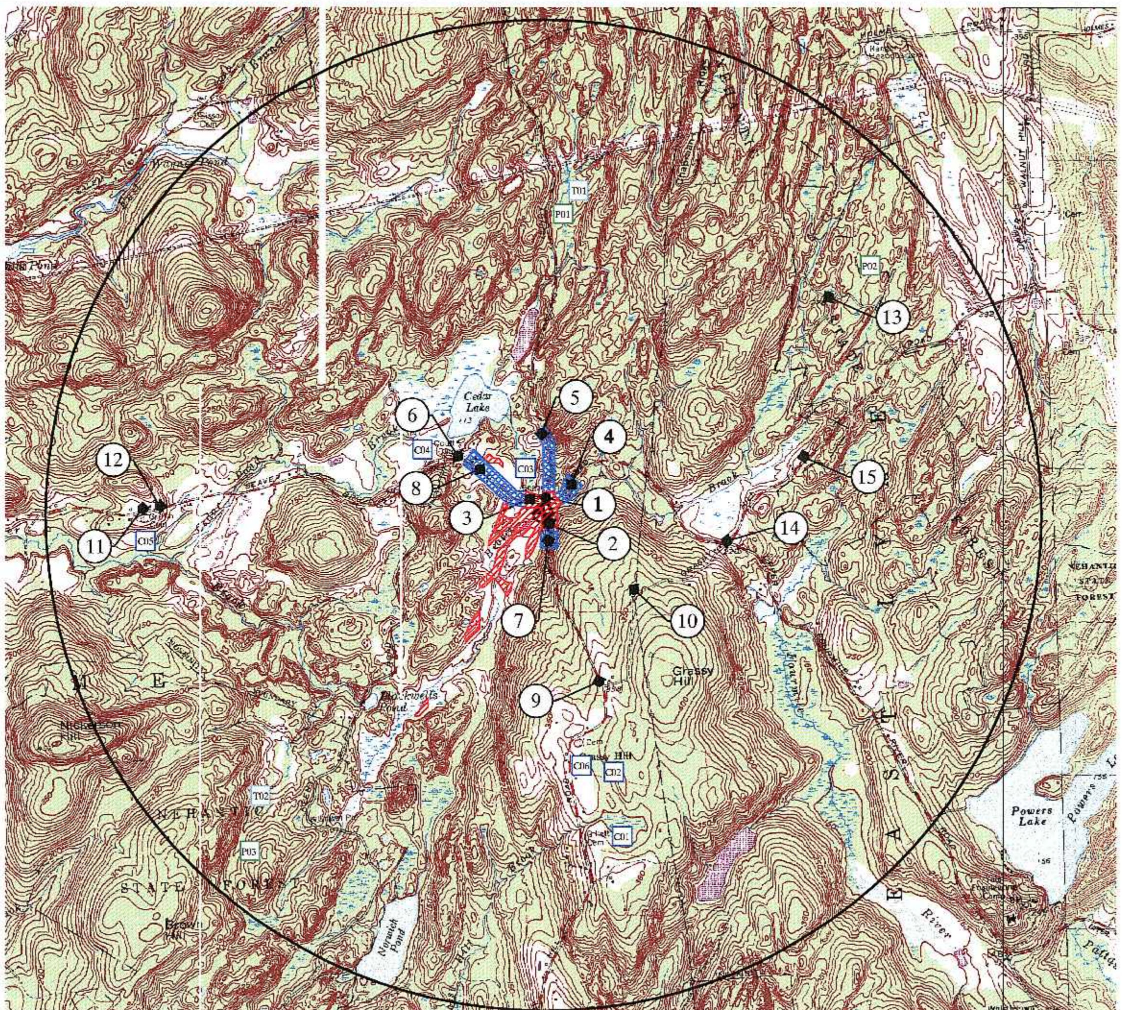
Site A has less acreage with year round visibility and Site B has less acreage with seasonal visibility. The differences in year round and seasonal visible areas are similar but opposite and neither site is highly preferable to the other based on seasonal and year round areas of visibility.

Site B is visible from one cemetery, while Site A is not visible from any parks or recreational areas, trails, churches, or cemeteries. Site A is preferable when considering impact on surrounding visual receptors.

Both sites have viewpoints where they are visible, both year round as well as seasonally. Site B is visible from 4 of the 15 viewpoints, with 1 being visible only seasonally and 2 with increased visibility seasonally. Site A is visible from 7 of the 15 viewpoints, with 4 being visible only seasonally and 2 with increased visibility seasonally. Additionally, for those viewpoints that are visible seasonally, a greater portion of the Site A tower shows than those for Site B. Site B is preferable to the other based on viewpoint visibility.

Overall, based on the categories listed in the comparison charts and the summaries stated above, we are concluding Site B offers a difference in visual impact to the surrounding community that would make it the obvious preferred choice based on visibility.

ATTACHMENT A:
Site A Viewshed Map



Historic Sites:

No Historic Sites within the study area.

Trails:

- T01 Harrman Park Trails
- T02 Nehantic State Forest Trails

Parks:

- P01 Harrman Park
- P02 Nehantic State Forest
- P03 Nehantic State Forest

Schools:

No schools were located within the study area.

Church/Cemetery:

- C01 Gillette Cemetery
- C02 Grassy Hill Cemetery
- C03 Beebe Cemetery
- C04 Coult Cemetery
- C05 Griffen Cemetery
- C06 Grassy Hill Congregational Church

Scenic Roads:

No Scenic roads were located within the study area based on field observations, CTDOT research and research for all towns within the study area.

Visibility by Residence

STREET	RESIDENCES
GRASSY HILL ROAD	1 (Y)
BEAVER BROOK RD	4 (Y), 6 (S)
GUNGY ROAD	2 (S)

(S) = SEASONAL VIEW
(Y) = YEAR ROUND VIEW

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 national and state historical registers.
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, field observations and town research.

Legend

- APPROXIMATE LOCATION OF PROPOSED MONOPOLE
- # COMPUTER SIMULATION PHOTOGRAPH LOCATION
- APPROXIMATE LIMIT OF SEASONAL TOWER VISIBILITY
- APPROXIMATE LIMIT OF YEAR ROUND TOWER VISIBILITY
- C# CHURCH/CEMETERY
- P# PARK
- T# TRAILS
- H# HISTORICAL SITE
- S# SCHOOL
- TRAIL OR SCENIC ROAD

Visibility by Acreage

ITEM	APPROXIMATE ACRES	% OF TOTAL AREA
2 MILE RADIUS AREA	8,053	100%
NOT VISIBLE DUE TO TOPOGRAPHY	4409	55%
NOT VISIBLE DUE TO VEGETATION	3586	44%
VISIBLE YEAR ROUND	30	<1%
POTENTIAL SEASONAL VISIBILITY	28	<1%

Distances from Photo Locations to Tower

PHOTO	DIST. (FT)	PHOTO	DIST. (FT)	PHOTO	DIST. (FT)
01	370	06	2190	11	8500
02	270	07	610	12	8150
03	420	08	1650	13	7640
04	870	09	3790	14	3960
05	1720	10	3830	15	5690

2 MILE VIEWSHED ANALYSIS MAP

LYME - GRASSY HILL ROAD VISUAL IMPACT ASSESSMENT

PREPARED FOR:

at&t Your world. Delivered.

cingular WIRELESS

NEW CINGULAR WIRELESS PCS, LLC
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067

PREPARED BY:

Drawing Copyright © 2009

CHA

2139 Silas Deane Highway, Suite 212 · Rocky Hill, CT 06067-2336

CHA Project No.

JANUARY 2009

0 625' 1250' 2500' 5000'

NORTH

FIGURE VS-01

ATTACHMENT B:
Site A Photosims

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

CHA

DATE: JAN 2009

SITE: SR1836 - LYME

VIEW 1 - EXISTING VIEW
LOOKING SOUTHWEST TOWARD SITE
FROM INTERSECTION OF BEAVERBROOK
ROAD AND GRASSY HILL ROAD

cingular WIRELESS

at&t Your world. Delivered.

NEW CINGULAR WIRELESS PCS, LLC
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067

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

CHA

DATE: JAN 2009

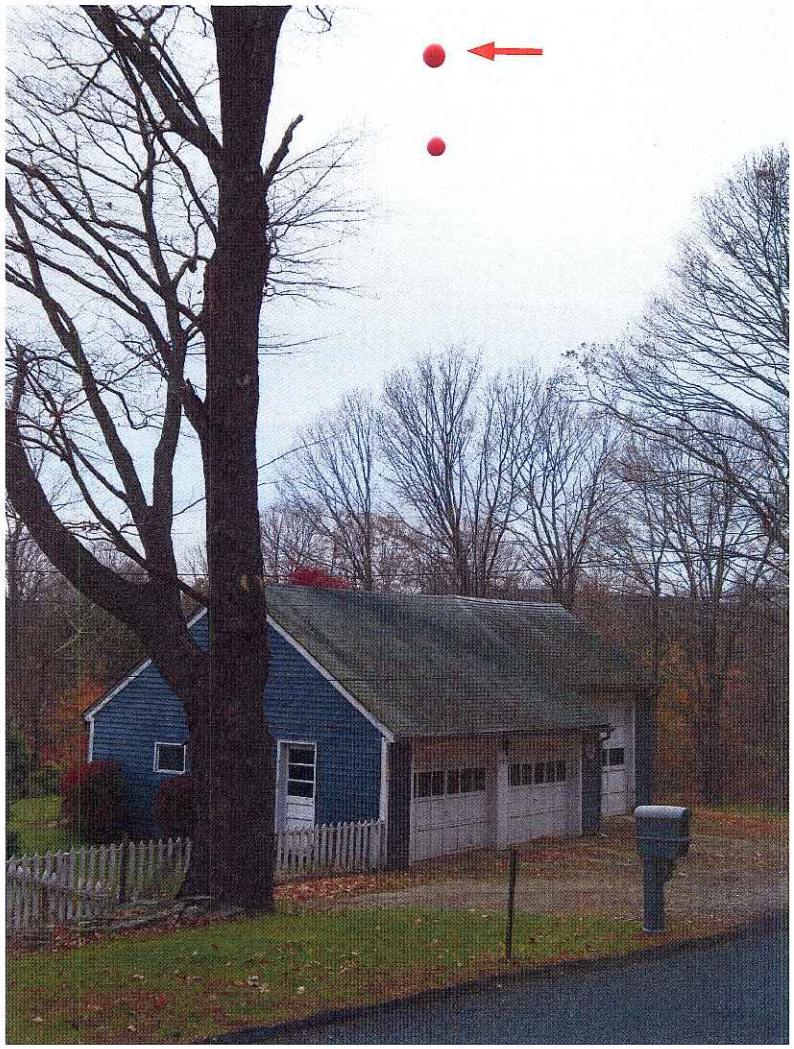
SITE: SR1836 - LYME

VIEW 1 - PROPOSED VIEW
LOOKING SOUTHWEST TOWARD SITE
FROM INTERSECTION OF BEAVERBROOK
ROAD AND GRASSY HILL ROAD

cingular WIRELESS

at&t Your world. Delivered.

NEW CINGULAR WIRELESS PCS, LLC
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067



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

CHA

DATE: JAN 2009

SITE: SR1836 - LYME

VIEW 2 - EXISTING VIEW LOOKING NORTHWEST TOWARD SITE FROM 482 GRASSY HILL ROAD

cingular WIRELESS

at&t Your world. Delivered.

NEW CINGULAR WIRELESS PCS, LLC
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067

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

CHA

DATE: JAN 2009

SITE: SR1836 - LYME

VIEW 2 - PROPOSED VIEW LOOKING NORTHWEST TOWARD SITE FROM 482 GRASSY HILL ROAD

cingular WIRELESS

at&t Your world. Delivered.

NEW CINGULAR WIRELESS PCS, LLC
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067

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

CHA

DATE: JAN 2009

SITE: SR1836 - LYME

VIEW 3 - EXISTING VIEW LOOKING SOUTHEAST TOWARD SITE FROM 281 BEAVERBROOK ROAD

cingular WIRELESS

at&t Your world. Delivered.

NEW CINGULAR WIRELESS PCS, LLC
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067

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

CHA

DATE: JAN 2009

SITE: SR1836 - LYME

VIEW 3 - PROPOSED VIEW LOOKING SOUTHEAST TOWARD SITE FROM 281 BEAVERBROOK ROAD

cingular WIRELESS at&t Your world. Delivered.

NEW CINGULAR WIRELESS PCS, LLC
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067

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

CHA

DATE: JAN 2009

SITE: SR1836 - LYME

VIEW 4 - EXISTING VIEW LOOKING SOUTHWEST TOWARD SITE FROM 482 BEAVERBROOK ROAD (SEASONAL)

cingular WIRELESS

at&t Your world. Delivered.

NEW CINGULAR WIRELESS PCS, LLC
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067

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

CHA

DATE: JAN 2009

SITE: SR1836 - LYME

VIEW 4 - PROPOSED VIEW LOOKING SOUTHWEST TOWARD SITE FROM 482 BEAVERBROOK ROAD (SEASONAL)

cingular WIRELESS

at&t Your world. Delivered.

NEW CINGULAR WIRELESS PCS, LLC
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067

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

CHA

DATE: JAN 2009

SITE: SR1836 - LYME

VIEW 5 - EXISTING VIEW LOOKING SOUTH TOWARD SITE FROM GUNGY ROAD (SEASONAL)

cingular WIRELESS

at&t Your world. Delivered.

NEW CINGULAR WIRELESS PCS, LLC
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067

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

CHA

DATE: JAN 2009

SITE: SR1836 - LYME

VIEW 5 - PROPOSED VIEW LOOKING SOUTH TOWARD SITE FROM GUNGY ROAD (SEASONAL)

cingular WIRELESS

at&t Your world. Delivered.

NEW CINGULAR WIRELESS PCS, LLC
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067

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

CHA

DATE: JAN 2009

SITE: SR1836 - LYME

VIEW 6 - NON-VISIBLE VIEW LOOKING SOUTHEAST TOWARD SITE FROM COULT CEMETERY

cingular WIRELESS

at&t Your world. Delivered.

NEW CINGULAR WIRELESS PCS, LLC
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067

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

CHA

DATE: JAN 2009

SITE: SR1836 - LYME

VIEW 7 - EXISTING VIEW LOOKING NORTH TOWARD SITE FROM GRASSY HILL ROAD (SEASONAL)

cingular WIRELESS

at&t Your world. Delivered.

NEW CINGULAR WIRELESS PCS, LLC
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067

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

CHA

DATE: JAN 2009

SITE: SR1836 - LYME

VIEW 7 - PROPOSED VIEW LOOKING NORTH TOWARD SITE FROM GRASSY HILL ROAD (SEASONAL)

cingular WIRELESS

at&t Your world. Delivered.

NEW CINGULAR WIRELESS PCS, LLC
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067

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

CHA

DATE: JAN 2009

SITE: SR1836 - LYME

VIEW 8 - EXISTING VIEW LOOKING SOUTHEAST TOWARD SITE FROM 252 BEAVERBROOK ROAD (SEASONAL)

cingular WIRELESS

at&t Your world. Delivered.

NEW CINGULAR WIRELESS PCS, LLC
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067

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

CHA

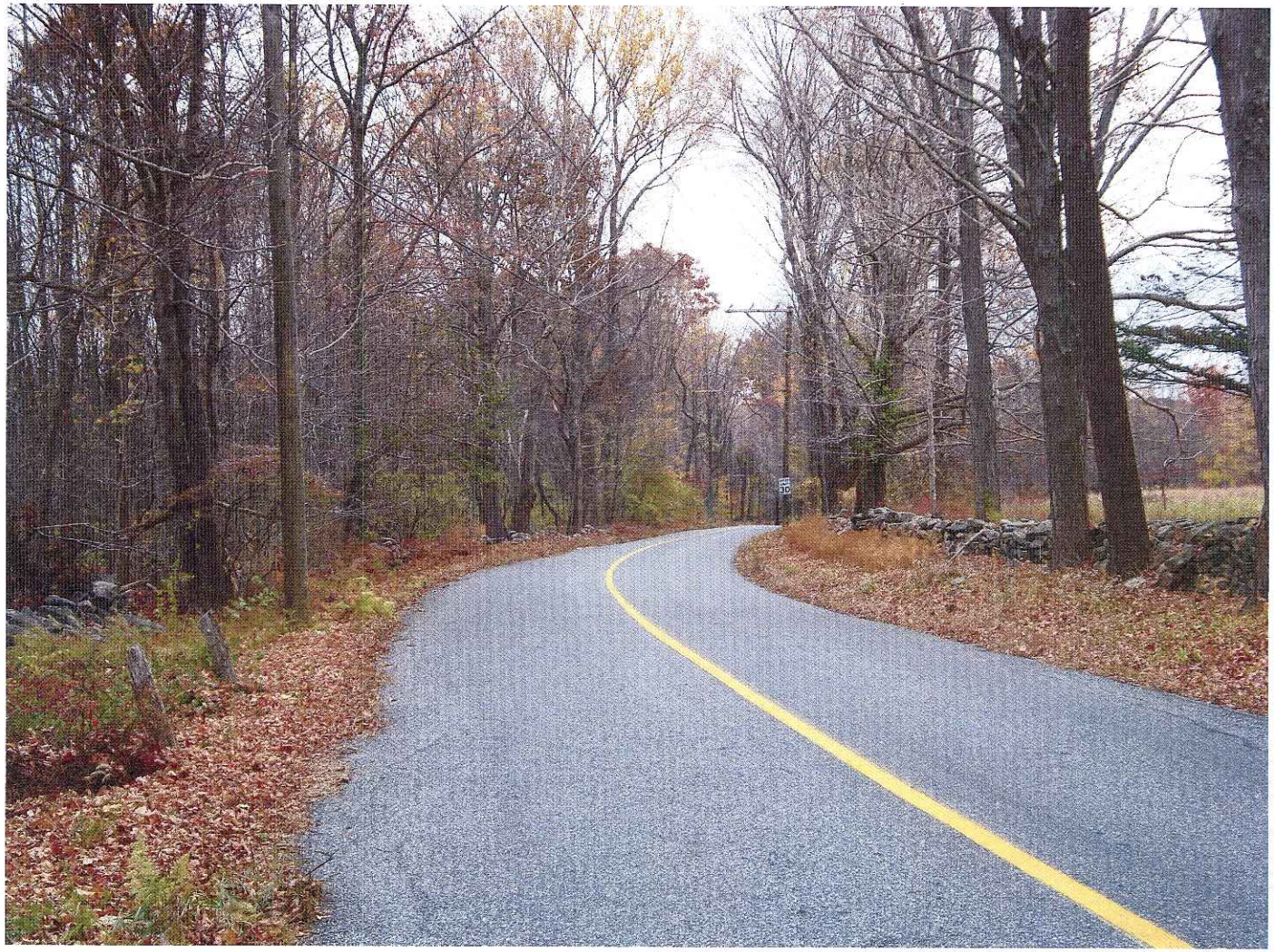
DATE: JAN 2009

SITE: SR1836 - LYME

VIEW 8 - PROPOSED VIEW LOOKING SOUTHEAST TOWARD SITE FROM 252 BEAVERBROOK ROAD (SEASONAL)

cingular WIRELESS at&t Your world. Delivered.

NEW CINGULAR WIRELESS PCS, LLC
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067



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

CHA

DATE: JAN 2009

SITE: SR1836 - LYME

VIEW 9 - NON-VISIBLE VIEW LOOKING NORTH TOWARD SITE FROM INTERSECTION OF GRASSY HILL ROAD AND OLD GRASSY HILL ROAD

cingular WIRELESS at&t Your world. Delivered.

NEW CINGULAR WIRELESS PCS, LLC
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067

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

CHA

DATE: JAN 2009

SITE: SR1836 - LYME

VIEW 10 - NON-VISIBLE VIEW
LOOKING NORTHWEST TOWARD SITE
FROM 249 OLD GRASSY HILL ROAD

cingular WIRELESS

at&t Your world. Delivered.

NEW CINGULAR WIRELESS PCS, LLC
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067

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

CHA

DATE: JAN 2009

SITE: SR1836 - LYME

VIEW 11 - NON-VISIBLE VIEW
LOOKING EAST TOWARD SITE FROM
GRIFFIN CEMETERY

cingular WIRELESS

at&t Your world. Delivered.

NEW CINGULAR WIRELESS PCS, LLC
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067

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

CHA

DATE: JAN 2009

SITE: SR1836 - LYME

VIEW 12 - NON-VISIBLE VIEW
LOOKING EAST TOWARD SITE FROM
108 BEAVER BROOK ROAD

cingular WIRELESS

at&t Your world. Delivered.

NEW CINGULAR WIRELESS PCS, LLC
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067

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

CHA

DATE: JAN 2009

SITE: SR1836 - LYME

VIEW 13 - NON-VISIBLE VIEW
LOOKING SOUTHWEST TOWARD
SITE FROM NEHANTIC
STATE FOREST ROAD

cingular WIRELESS at&t Your world. Delivered.

NEW CINGULAR WIRELESS PCS, LLC
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067

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

CHA

DATE: JAN 2009

SITE: SR1836 - LYME

VIEW 14 - NON-VISIBLE VIEW
LOOKING WEST TOWARD SITE
FROM INTERSECTION OF
WHISTLETOWN ROAD AND
GRASSY HILL ROAD

cingular WIRELESS

at&t Your world. Delivered.

NEW CINGULAR WIRELESS PCS, LLC
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067

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

CHA

DATE: JAN 2009

SITE: SR1836 - LYME

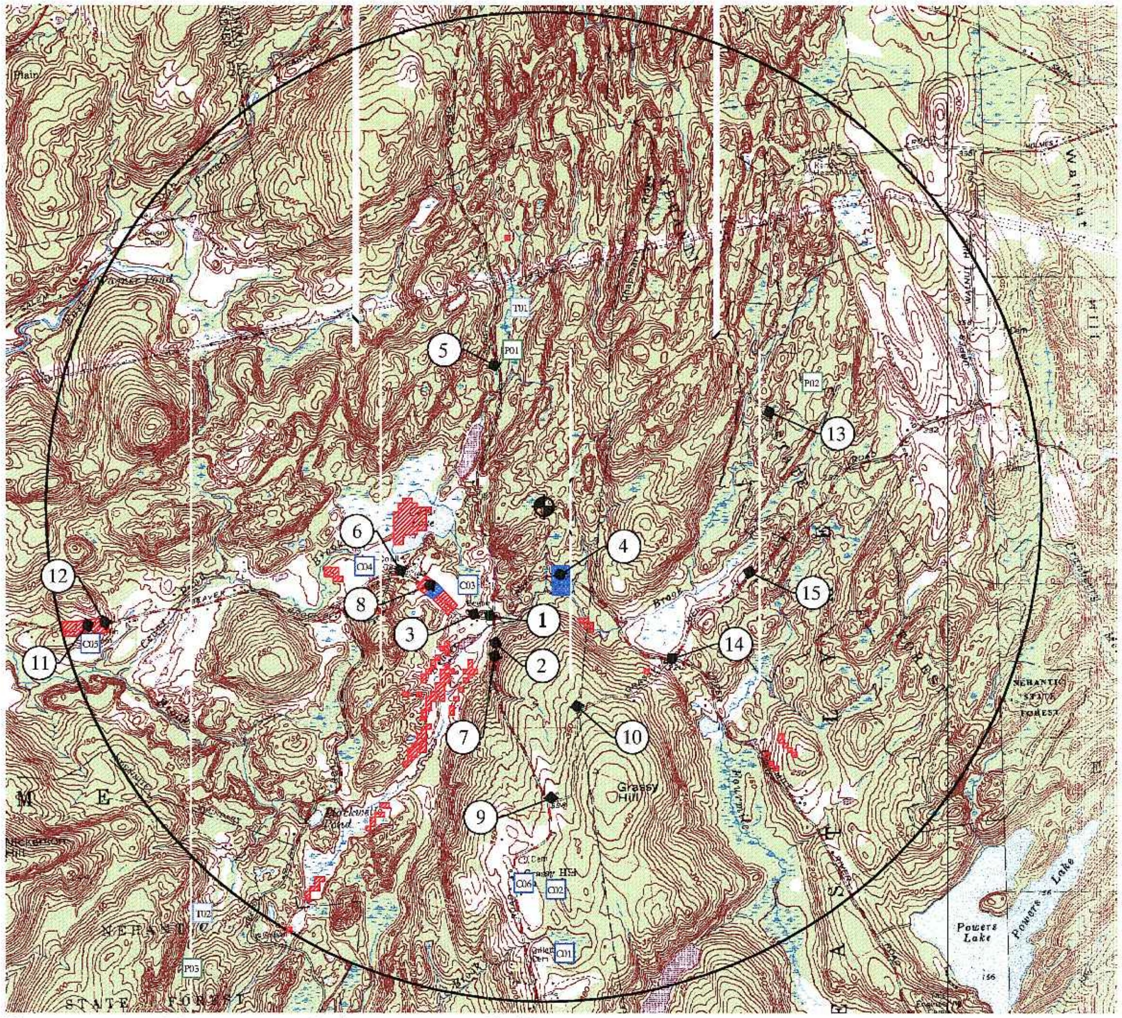
VIEW 15 - NON-VISIBLE VIEW
LOOKING WEST TOWARD SITE
FROM 184 GRASSY HILL ROAD

cingular WIRELESS

at&t Your world. Delivered.

NEW CINGULAR WIRELESS PCS, LLC
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067

ATTACHMENT C:
Site B Viewshed Map



Historic Sites:

No Historic Sites within the study area.

Trails:

T01 Hartman Park Trails

T02 Nehantic State Forest Trails

Parks:

P01 Hartman Park

P02 Nehantic State Forest

P03 Nehantic State Forest

Schools:

No schools were located within the study area.

Church/Cemetery:

C01 Gillette Cemetery

C02 Grassy Hill Cemetery

C03 Beebe Cemetery

C04 Coult Cemetery

C05 Griffen Cemetery

C06 Grassy Hill Congregational Church

Scenic Roads:

No Scenic roads were located within the study area based on field observations. CTDOT research and research for all towns within the study area.

Visibility by Residence

STREET	RESIDENCES
BEAVER BROOK RD	4 (Y), 2 (S)

(S) = SEASONAL VIEW
(Y) = YEAR ROUND VIEW

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 national and state historical registers.
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, field observations and town research.

Legend

APPROXIMATE LOCATION OF PROPOSED MONOPOLE

COMPUTER SIMULATION PHOTOGRAPH LOCATION

APPROXIMATE LIMIT OF SEASONAL TOWER VISIBILITY

APPROXIMATE LIMIT OF YEAR ROUND TOWER VISIBILITY

C# CHURCH/CEMETERY

P# PARK

T# TRAILS

H# HISTORICAL SITE

S# SCHOOL

TRAIL OR SCENIC ROAD

Visibility by Acreage

ITEM	APPROXIMATE ACRES	% OF TOTAL AREA
2 MILE RADIUS AREA	8,053	100%
NOT VISIBLE DUE TO TOPOGRAPHY	4,011	49.8%
NOT VISIBLE DUE TO VEGETATION	3,991	49.5%
VISIBLE YEAR ROUND	45	<1%
POTENTIAL SEASONAL VISIBILITY	6	<1%

Distances from Photo Locations to Tower

PHOTO	DIST. (FT)	PHOTO	DIST. (FT)	PHOTO	DIST. (FT)
01	2610	06	3350	11	10020
02	3100	07	3370	12	9650
03	2760	08	2960	13	5220
04	1500	09	6220	14	4240
05	3220	10	4330	15	4600

2 MILE VIEWSHED ANALYSIS MAP

LYME - BEAVER BROOK ROAD VISUAL IMPACT ASSESSMENT

PREPARED FOR:

at&t Your world. Delivered.

cingular WIRELESS

NEW CINGULAR WIRELESS PCS, LLC
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067

PREPARED BY:

CHA

2139 Silas Deane Highway, Suite 212 · Rocky Hill, CT 06067-2336

JANUARY 2009

0 625' 1250' 2500' 5000'

NORTH

FIGURE VS-01

ATTACHMENT D:
Site B Photosims

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

CLOUGH HARBOUR & ASSOCIATES LLP

DATE: JAN 2009

SITE: LYME
BEAVER BROOK

VIEW 1 - NON-VISIBLE VIEW
LOOKING NORTHEAST TOWARD
SITE FROM INTERSECTION OF
BEAVER BROOK ROAD AND
GRASSY HILL ROAD

cingular WIRELESS

at&t Your world. Delivered.

NEW CINGULAR WIRELESS PCS, LLC
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067

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

CLOUGH HARBOUR & ASSOCIATES LLP

DATE: JAN 2009

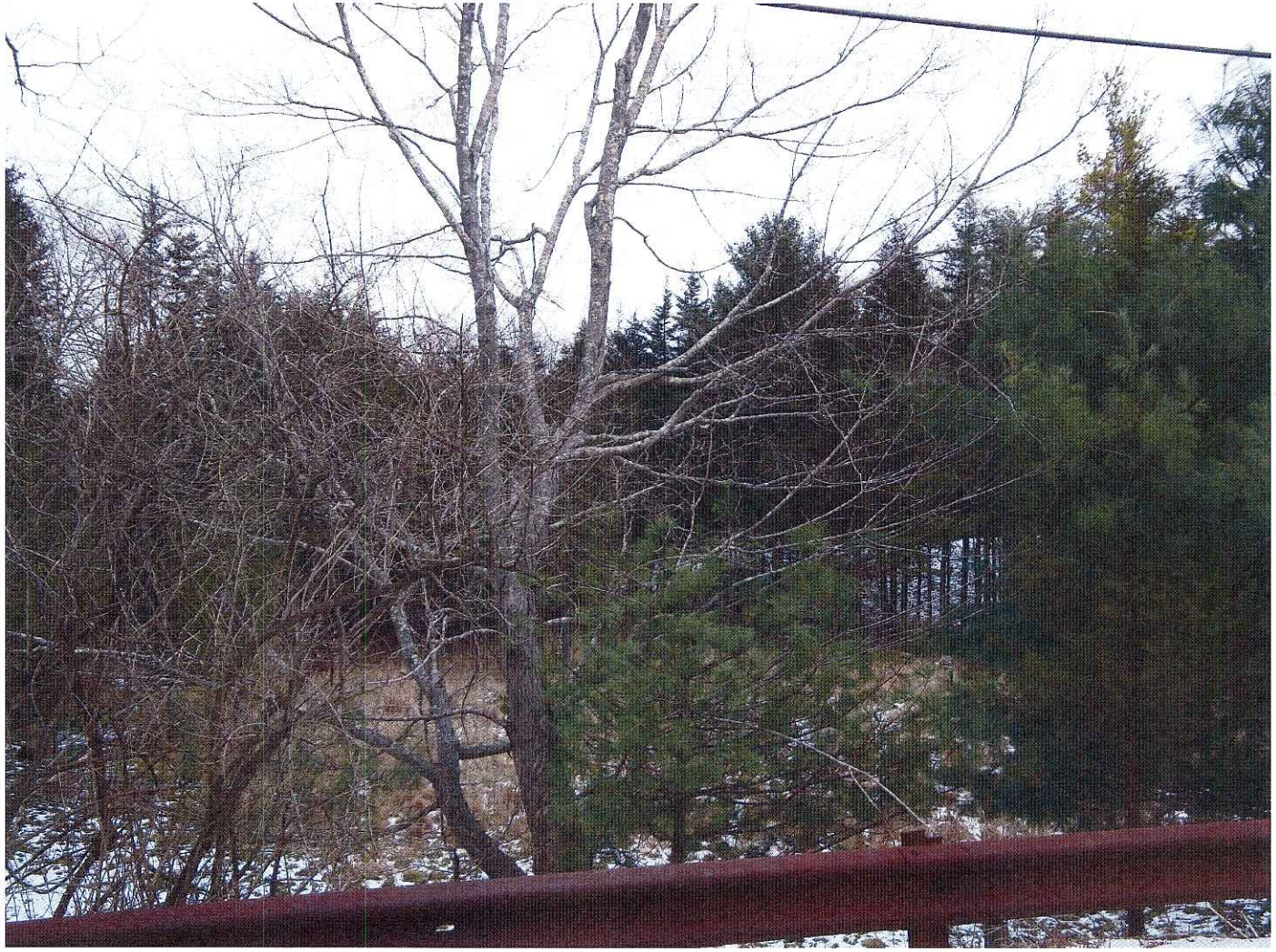
SITE: LYME
BEAVER BROOK

VIEW 2 - NON-VISIBLE VIEW LOOKING NORTHEAST TOWARD SITE FROM 482 GRASSY HILL ROAD

cingular WIRELESS

at&t Your world. Delivered.

NEW CINGULAR WIRELESS PCS, LLC
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067



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

CLOUGH HARBOUR & ASSOCIATES LLP

DATE: JAN 2009

SITE: LYME
BEAVER BROOK

VIEW 3 - NON-VISIBLE VIEW LOOKING NORTHEAST TOWARD SITE FROM 281 BEAVER BROOK ROAD

cingular WIRELESS at&t Your world. Delivered.

NEW CINGULAR WIRELESS PCS, LLC
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067

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

CLOUGH HARBOUR & ASSOCIATES LLP

DATE: JAN 2009

SITE: LYME
BEAVER BROOK

VIEW 4 - EXISTNIG VIEW LOOKING NORTH TOWARD SITE FROM 322 BEAVER BROOK ROAD

cingular WIRELESS at&t Your world. Delivered.

NEW CINGULAR WIRELESS PCS, LLC
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067

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

CLOUGH HARBOUR & ASSOCIATES LLP

DATE: JAN 2009

SITE: LYME
BEAVER BROOK

VIEW 4 - PROPOSED VIEW LOOKING NORTH TOWARD SITE FROM 322 BEAVER BROOK ROAD

cingular WIRELESS at&t Your world. Delivered.

NEW CINGULAR WIRELESS PCS, LLC
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067

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

CLOUGH HARBOUR & ASSOCIATES LLP

DATE: JAN 2009

SITE: LYME
BEAVER BROOK

VIEW 5 - NON-VISIBLE VIEW LOOKING SOUTH TOWARD SITE FROM GUNGY ROAD

cingular WIRELESS

at&t Your world. Delivered.

NEW CINGULAR WIRELESS PCS, LLC
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067

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

CLOUGH HARBOUR & ASSOCIATES LLP

DATE: JAN 2009

SITE: LYME
BEAVER BROOK

VIEW 6 - NON-VISIBLE VIEW LOOKING NORTHEAST TOWARD SITE FROM COULT CEMETERY

cingular WIRELESS at&t Your world. Delivered.

NEW CINGULAR WIRELESS PCS, LLC
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067

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

CLOUGH HARBOUR & ASSOCIATES LLP

DATE: JAN 2009

SITE: LYME
BEAVER BROOK

VIEW 7 - NON-VISIBLE VIEW LOOKING NORTHEAST TOWARD SITE FROM GRASSY HILL ROAD

cingular WIRELESS

at&t Your world. Delivered.

NEW CINGULAR WIRELESS PCS, LLC
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067

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

CLOUGH HARBOUR & ASSOCIATES LLP

DATE: JAN 2009

SITE: LYME
BEAVER BROOK

VIEW 8 - EXISTING VIEW LOOKING NORTHEAST TOWARD SITE FROM 254 BEAVER BROOK ROAD (SEASONAL)

cingular WIRELESS

at&t Your world. Delivered.

NEW CINGULAR WIRELESS PCS, LLC
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067

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

CLOUGH HARBOUR & ASSOCIATES LLP

VIEW 8 - PROPOSED VIEW LOOKING NORTHEAST TOWARD SITE FROM 254 BEAVER BROOK ROAD (SEASONAL)

cingular WIRELESS at&t Your world. Delivered.

NEW CINGULAR WIRELESS PCS, LLC
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067

DATE: JAN 2009

SITE: LYME BEAVER BROOK

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

CLOUGH HARBOUR & ASSOCIATES LLP

DATE: JAN 2009

SITE: LYME
BEAVER BROOK

VIEW 9 - NON-VISIBLE VIEW LOOKING NORTH TOWARD SITE FROM INTERSECTION OF GRASSY HILL ROAD AND OLD GRASSY HILL ROAD

cingular WIRELESS at&t Your world. Delivered.

NEW CINGULAR WIRELESS PCS, LLC
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067

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

CLOUGH HARBOUR & ASSOCIATES LLP

DATE: JAN 2009

SITE: LYME
BEAVER BROOK

VIEW 10 - NON-VISIBLE VIEW
LOOKING LOOKING NORTH
TOWARD SITE FROM
24 OLD GRASSY HILL ROAD

cingular WIRELESS at&t Your world. Delivered.

NEW CINGULAR WIRELESS PCS, LLC
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067

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

CLOUGH HARBOUR & ASSOCIATES LLP

DATE: JAN 2009

SITE: LYME
BEAVER BROOK

VIEW 11 - EXISTING VIEW LOOKING EAST TOWARD SITE FROM GRIFFIN CEMETERY

cingular WIRELESS

at&t Your world. Delivered.

NEW CINGULAR WIRELESS PCS, LLC
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067

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

CLOUGH HARBOUR & ASSOCIATES LLP

DATE: JAN 2009

SITE: LYME
BEAVER BROOK

VIEW 11 - PROPOSED VIEW LOOKING EAST TOWARD SITE FROM GRIFFIN CEMETERY

cingular WIRELESS

at&t Your world. Delivered.

NEW CINGULAR WIRELESS PCS, LLC
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067

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

CLOUGH HARBOUR & ASSOCIATES LLP

DATE: JAN 2009

SITE: LYME
BEAVER BROOK

VIEW 12 - EXISTING VIEW LOOKING EAST TOWARD SITE FROM 108 BEAVER BROOK ROAD

cingular WIRELESS

at&t Your world. Delivered.

NEW CINGULAR WIRELESS PCS, LLC
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067

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

CLOUGH HARBOUR & ASSOCIATES LLP

DATE: JAN 2009

SITE: LYME
BEAVER BROOK

VIEW 12 - PROPOSED VIEW LOOKING EAST TOWARD SITE FROM 108 BEAVER BROOK ROAD

cingular WIRELESS at&t Your world. Delivered.

NEW CINGULAR WIRELESS PCS, LLC
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067

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

CLOUGH HARBOUR & ASSOCIATES LLP

DATE: JAN 2009

SITE: LYME
BEAVER BROOK

VIEW 13 - NON-VISIBLE VIEW
LOOKING SOUTHWEST TOWARD
SITE FROM NEHANTIC
STATE FOREST ROAD

cingular WIRELESS

at&t Your world. Delivered.

NEW CINGULAR WIRELESS PCS, LLC
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067

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

CLOUGH HARBOUR & ASSOCIATES LLP

DATE: JAN 2009

SITE: LYME
BEAVER BROOK

VIEW 14 - NON-VISIBLE VIEW LOOKING NORTHWEST TOWARD SITE FROM INTERSECTION OF WHISTLETOWN ROAD AND GRASSY HILL ROAD

cingular WIRELESS at&t Your world. Delivered.

NEW CINGULAR WIRELESS PCS, LLC
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067

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

CLOUGH HARBOUR & ASSOCIATES LLP

DATE: JAN 2009

SITE: LYME
BEAVER BROOK

VIEW 15 - NON-VISIBLE VIEW
LOOKING NORTHWEST TOWARD SITE
FROM 184 GRASSY HILL ROAD

cingular WIRELESS

at&t Your world. Delivered.

NEW CINGULAR WIRELESS PCS, LLC
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067

(This page intentionally left blank.)

Reserved for
Exhibit # 5

Site Name: Lyme-Beaver Brook Road #1836
Client Name: AT&T Mobility

TOWER SITE EVALUATION FORM

1. Location (Provide maps if possible): 322 Beaver Brook Road, Lyme
   State: CT County: New London Lat/Long/GPS: 41-24-55(N) 72-17-00 (W)

   City and Highway Direction (2 miles W on Hwy 20, etc.):

   In a wooded area approximately 550 feet north of Beaver Brook Road and 1,500 feet east of Gungy Road.

2. Elevation above mean sea level: 198 feet amsl

3. Will the equipment be co-located on an existing **FCC licensed** tower or other existing structure (building, billboard, etc.)? (y/n) N If yes, type of structure:
   If yes, no further information is required.

4. If no, provide proposed specifications for new tower:
   Height: 180 ft. Construction type (lattice, monopole, etc.): monopole

   Guy-wired? (y/n) N No. Bands: _____ Total No. Wires:
   Lighting (Security & Aviation): N .

If tower will be lighted or guy-wired, complete items 5-19. If not, complete only items 19 and 20.

5. Area of tower footprint in acres or square feet: _____

6. Length and width of access road in feet: _____

7. General description of terrain - mountainous, rolling hills, flat to undulating, etc. Photographs of the site and surrounding area are beneficial:

8. Meteorological conditions (incidence of fog, low ceilings, etc.):

9. Soil type(s):

10. Habitat types and land use on and adjacent to the site, by acreage and percentage of total:

11. Dominant vegetative species in each habitat type:

12. Average diameter breast height of dominant tree species in forested areas:

Site Name: Lyme-Beaver Brook Road #1836
Client Name: AT&T Mobility

13. Will construction at this site cause fragmentation of a larger block of habitat into two or more smaller blocks? (y/n)_____ If yes, describe:

14. Is evidence of bird roosts or rookeries present? (y/n)_____ If yes, describe:

15. Distance to nearest wetland area (forested swamp, marsh, riparian, marine, etc.), and coastline if applicable:

A small tributary of Beaver Brook is located approximately 750 feet southwest of the proposed subject site. Cedar Lake is approximately 2,400 feet to the west.

16. Distance to nearest telecommunications tower:_____.

17. Potential for co-location of antennas on existing towers or other structures:_____.

18. Have measures been incorporated for minimizing impacts to migratory birds? (y/n)_____ If yes, describe:

19. Has an evaluation been made to determine if the proposed facility may affect listed or proposed endangered or threatened species or their habitats as required by FCC regulation at 47 CFR 1.1307(a)(3)? (y/n)__N___ If yes, present findings:

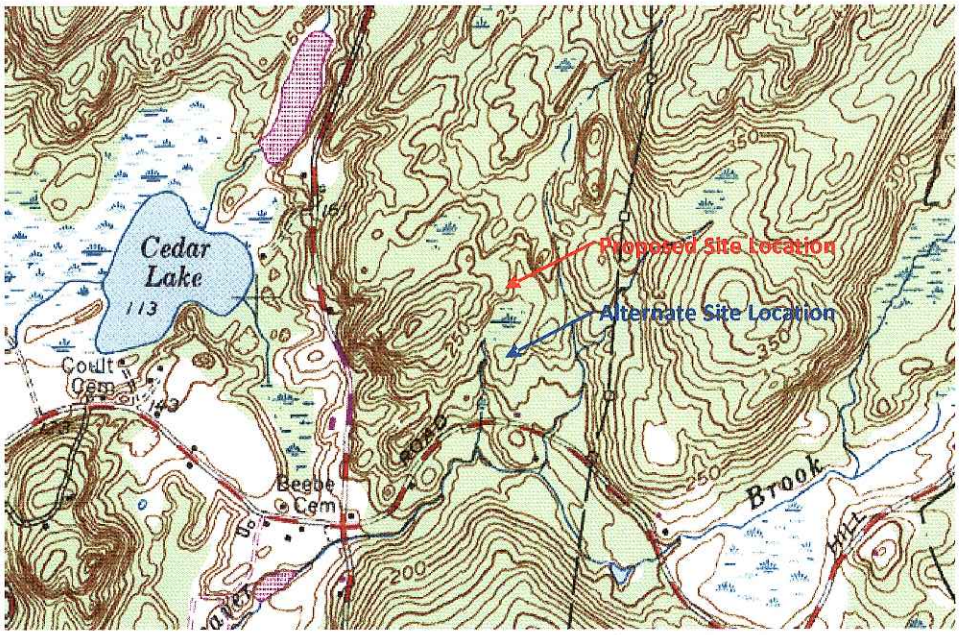
The footprint of the planned and alternate telecommunications facility is in a wooded area north of Beaver Brook Road a residence. The site location is not within an area of concern on the *State and Federal Listed Species and Natural Communities Map* (CT Natural Diversity Database). No biological field survey has been conducted at this time.

20. Additional information required:

The undertaking consists of the construction of a telecommunications facility. The proposed facility will consist of a 180-foot monopole and associated equipment contained within a 75x75-foot fenced compound. The planned undertaking will also involve construction of an access road along an existing path from Beaver Brook Road. Utility connections currently exist on the subject property; telco and power connections will be made to serve the proposed facility. No other construction-related activities are anticipated. An alternate location is located approximately 300 feet to the south of the proposed subject site. Site plans are attached.

Site Name: Lyme-Beaver Brook Road #1836
Client Name: AT&T Mobility

Aerial Photograph of the Project Area



Hamburg (CT) USGS Topographic Map of the Project Area

Site Name: Lyme-Beaver Brook Road #1836
Client Name: AT&T Mobility

Photo 1:

View of the ground surface at the proposed site location facing north

Photo 2:

View of the setting at the proposed site location, facing south.

Photo 3:

View of the setting at the alternate site location, facing north.

Site Name: Lyme-Beaver Brook Road #1836
Client Name: AT&T Mobility

Photo 4:

View of the setting at the alternate site location, facing south.

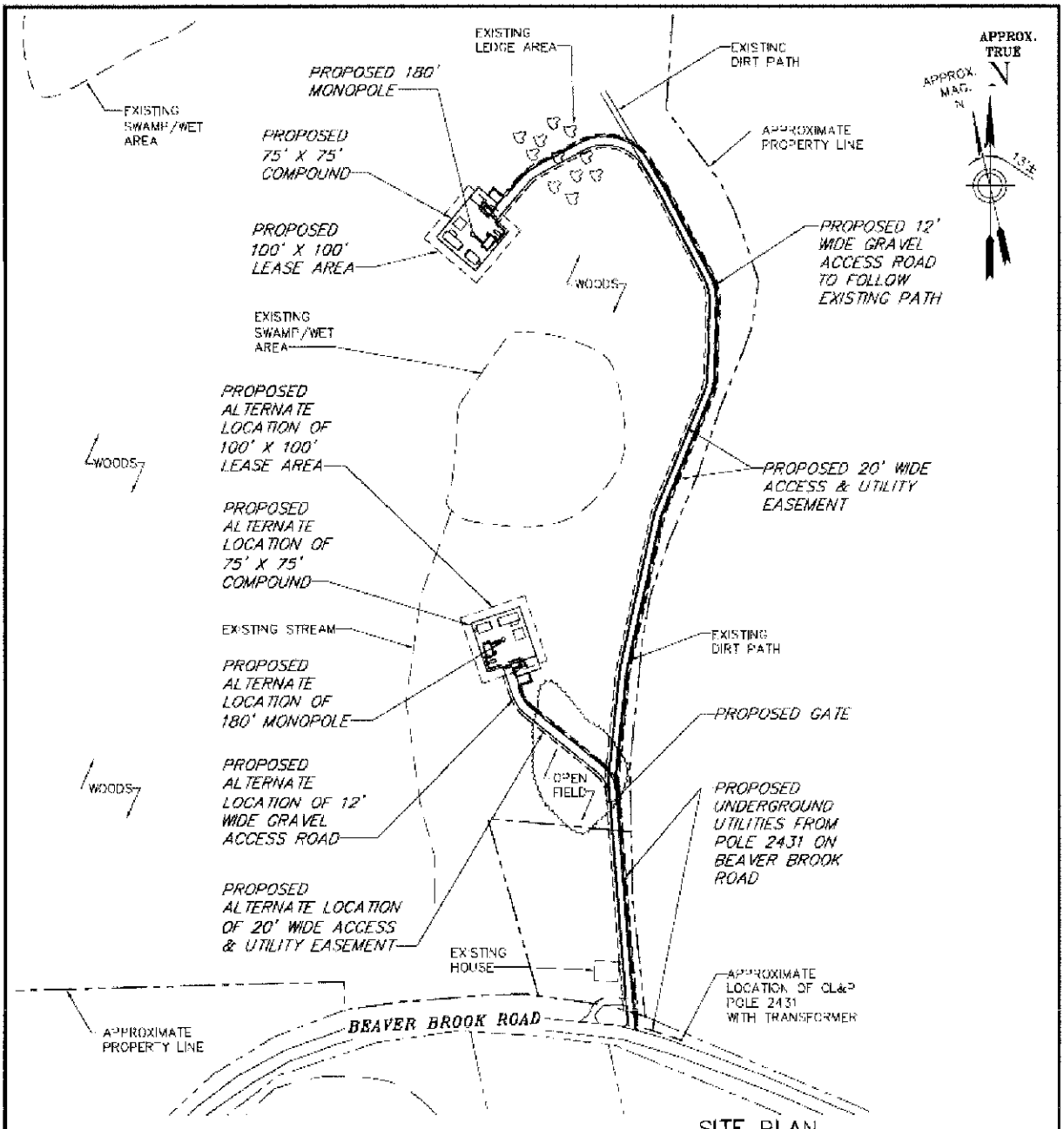
Photo 5:

View of house on the subject property to the south of the site locations.

Photo6:

View of wetland area near the proposed site location to the south.

Site Name: Lyme-Beaver Brook Road #1836
Client Name: AT&T Mobility



NOTE:
PROPOSED CINGULAR WIRELESS INSTALLATION SHOWN IS ONLY APPROXIMATE. EXACT LOCATIONS AND DETAILS WILL BE DETERMINED BY FINAL ENGINEERING DESIGN.

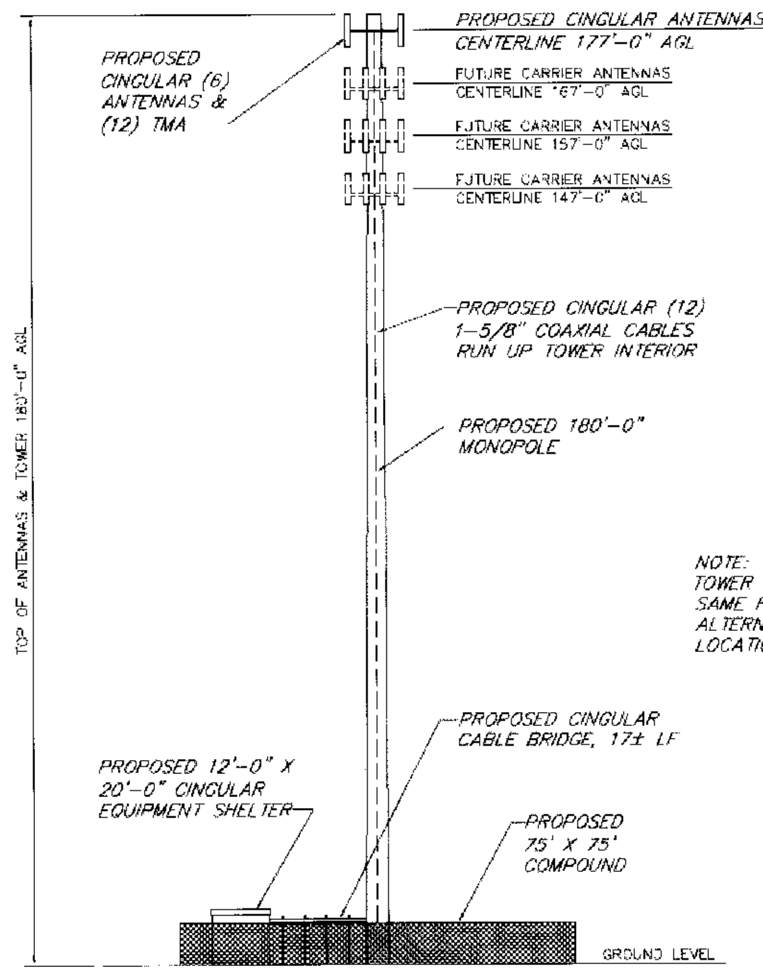
CHA
GOUGH HARBOUR & ASSOCIATES LLP
21 Old Main Street Highway, Suite 212 - Rocky Hill, CT 06067-2300
Main: (860) 257-4000 - www.goughharbour.com

at&t
Your world. Delivered.
cingular
WIRELESS
NEW CINGULAR WIRELESS PCS, LLC
500 ENTERPRISE DRIVE, ROCKY HILL, CT 06067

SR1836
LYME-BEAVER BROOK ROAD
322 BEAVER BROOK ROAD
LYME, CT 06371
NEW LONDON COUNTY
CHA PROJ. NO. - '850'-1019

1 OF 3
REV 0
LE-1

Site Name: Lyme-Beaver Brook Road #1836
Client Name: AT&T Mobility

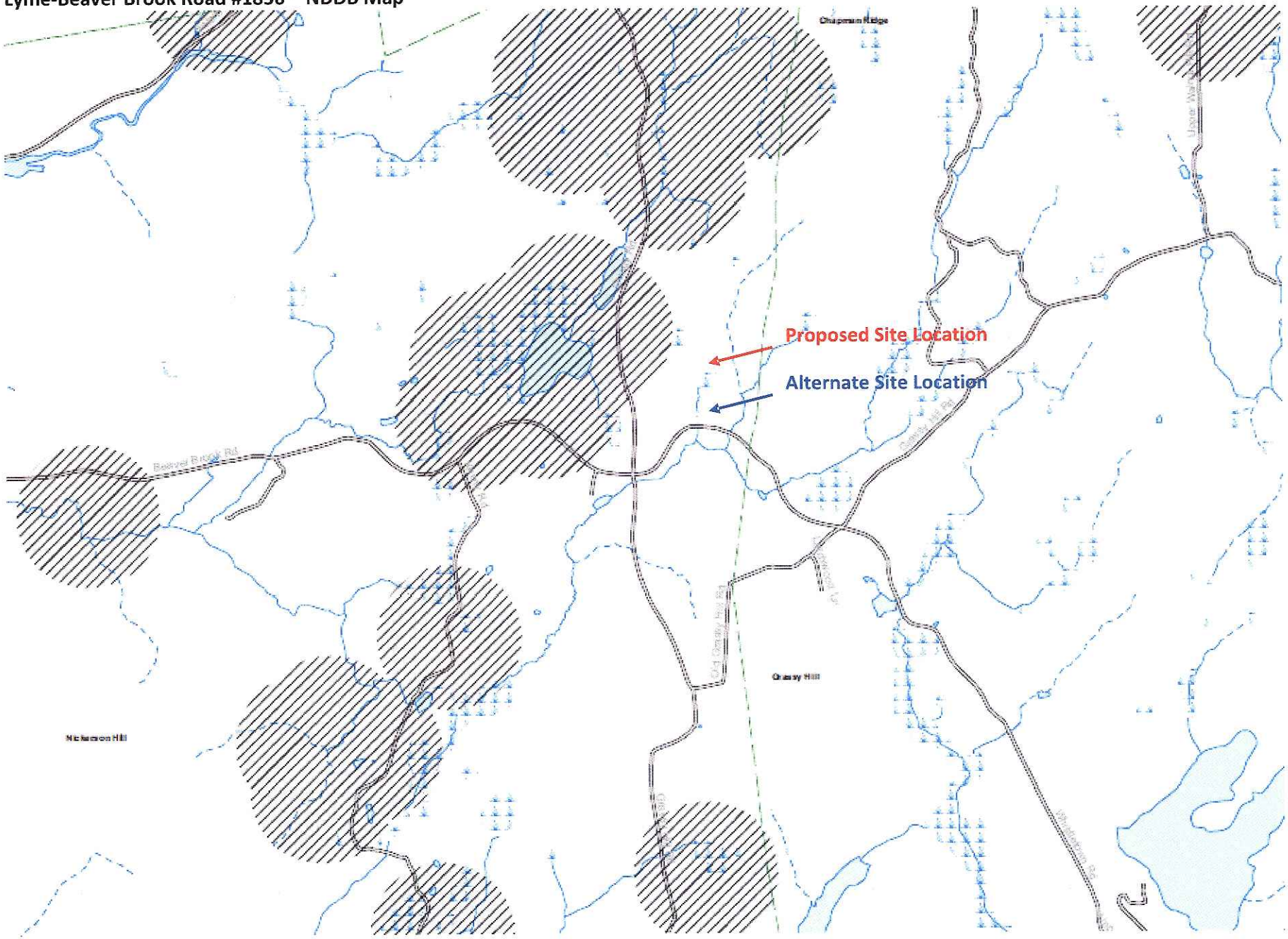


TOWER ELEVATION
NO SCALE

NOTE:
PROPOSED CINGULAR WIRELESS INSTALLATION SHOWN IS ONLY APPROXIMATE. EXACT LOCATIONS AND DETAILS WILL BE DETERMINED BY FINAL ENGINEERING DESIGN.

Drawing Copyright © 2006 Clough Harbour & Associates LLP CHA CLOUGH HARBOUR & ASSOCIATES LLP 2139 Silas Deane Highway, Suite 212 · Rocky Hill, CT 06067-2336 Main: (860) 257-4557 · www.cloughharbour.com	at&t Your world. Delivered. cingular WIRELESS NEW CINGULAR WIRELESS PCS, LLC 500 ENTERPRISE DRIVE, ROCKY HILL, CT 06067	SR1836 LYME-BEAVER BROOK ROAD 322 BEAVER BROOK ROAD LYME, CT 06371 NEW LONDON COUNTY CHA PROJ. NO. – 1830'–1019	3 OF 3 REV 0 LE–3

Lyme-Beaver Brook Road #1836 – NDDB Map



New Tower ("NT") Submission Packet

FCC FORM 620

Introduction

The **NT Submission Packet** is to be completed by or on behalf of Applicants to construct new antenna support structures by or for the use of licensees of the Federal Communications Commission ("FCC"). **The Packet (including Form 620 and attachments) is to be submitted to the State Historic Preservation Office ("SHPO") or to the Tribal Historic Preservation Office ("THPO"), as appropriate, before any construction or other installation activities on the site begin. Failure to provide the Submission Packet and complete the review process under Section 106 of the National Historic Preservation Act ("NHPA")[1] prior to beginning construction may violate Section 110(k) of the NHPA and the Commission's rules.**

The instructions below should be read in conjunction with, and not as a substitute for, the "Nationwide Programmatic Agreement for Review of Effects on Historic Properties for Certain Undertakings Approved by the Federal Communications Commission," dated September 2004, ("Nationwide Agreement") and the relevant rules of the FCC (47 C.F.R. §§ 1.1301-1.1319) and the Advisory Council on Historic Preservation ("ACHP") (36 C.F.R. Part 800).[2]

Exclusions and Scope of Use

The NT Submission Packet should not be submitted for undertakings that are excluded from Section 106 Review. The categories of new tower construction that are excluded from historic preservation review under Section 106 of the NHPA are described in Section III of the Nationwide Agreement.

Where an undertaking is to be completed but no submission will be made to a SHPO or THPO due to the applicability of one or more exclusions, the Applicant should retain in its files documentation of the basis for each exclusion should a question arise as to the Applicant's compliance with Section 106.

The NT Submission Packet is to be used only for the construction of new antenna support structures. Antenna collocations that are subject to Section 106 review should be submitted using the Collocation ("CO") Submission Packet (FCC Form 621).

General Instructions: NT Submission Packet

Fill out the answers to Questions 1-5 on Form 620 and provide the requested attachments. Attachments should be numbered and provided in the order described below.

For ease of processing, provide the Applicant's Name, Applicant's Project Name, and Applicant's Project Number in the lower right hand corner of each page of Form 620 and attachments.[3]

---

[1] 16 U.S.C. § 470f.

[2] Section II.A.9. of the Nationwide Agreement defines a "historic property" as: "Any prehistoric or historic district, site, building, structure, or object included in, or eligible for inclusion in, the National Register maintained by the Secretary of the Interior. This term includes artifacts, records, and remains that are related to and located within such properties. The term includes properties of traditional religious and cultural importance to an Indian tribe or Native Hawaiian Organization that meet the National Register criteria."

[3] Some attachments may contain photos or maps on which this information can not be provided.

NT SUBMISSION PACKET – FCC FORM 620

1. Applicant Information

Full Legal Name of Applicant: **AT&T Mobility**

Name and Title of Contact Person: **Judy A. Owens, Senior Analyst**

Address of Contact Person (including Zip Code): **500 Enterprise Drive, 3rd Floor, Rocky Hill, Connecticut 06067**

Phone: **(860) 513-7788** Fax: **(860) 513-7190**

E-mail address: JO9485@att.com

2. Applicant's Consultant Information

Full Legal Name of Applicant's Section 106 Consulting Firm: **The Ottery Group, Inc.**

Name of Principal Investigator: **Lyle C. Torp**

Title of Principal Investigator: **Managing Director**

Investigator's Address: **3420 Morningwood Drive**

City: **Olney** State **MD** Zip Code **20832**

Phone: **301-562-1975** Fax: **301-562-1976**

E-mail Address: lyle.torp@otterygroup.com

Does the Principal Investigator satisfy the Secretary of the Interior's Professional Qualification Standards?[4] **YES** / NO.

Areas in which the Principal Investigator meets the Secretary of the Interior's Professional Qualification Standards: **Archeology**

Other "Secretary of the Interior qualified" staff who worked on the Submission Packet (provide name(s) as well as well as the area(s) in which they are qualified):

Christopher Sperling, Archeology/History
Stacy Patterson, Architectural History

[4] The Professional Qualification Standards are available on the cultural resources webpage of the National Park Service, Department of the Interior: <http://www.cr.nps.gov/local-law/arch_stnds_9.htm>. The Nationwide Agreement requires use of Secretary-qualified professionals for identification and evaluation of historic properties within the APE for direct effects, and for assessment of effects. The Nationwide Agreement encourages, but does not require, use of Secretary-qualified professionals to identify historic properties within the APE for indirect effects. *See* Nationwide Agreement, §§ VI.D.1.d, VI.D.1.e, VI.D.2.b, VI.E.5.

3. Site Information

a. Street Address of Site: **322 Beaver Brook Road**

b. City or Township: **Lyme**

County / Parish: **New London** State: **CT** Zip Code: **06371**

c. Nearest Cross Roads: **Gungy Road**

d. NAD 83 Latitude/Longitude coordinates (to tenth of a second):

N 41° 24' 55"; W 72° 17' 00"

e. Proposed tower height above ground level:[5] **180** feet; **54.864** meters

f. Tower type:

☐ guyed lattice tower ☐ self-supporting lattice ☒ monopole

☐ other (briefly describe tower) _____

4. Project Status

a. [X] Construction not yet commenced;
b. [ ] Construction commenced on [date] _____; or,
c. [ ] Construction commenced on [date] _____ and was completed on [date] _____.

5. Applicant's Determination of Effect

a. Direct Effects (check one):

i. [X] No Historic Properties in Area of Potential Effects ("APE") for direct effects;
ii. [ ] "No effect" on Historic Properties in APE for direct effects;
iii. [ ] "No adverse effect" on Historic Properties in APE for direct effects;
iv. [ ] "Adverse effect" on one or more Historic Properties in APE for direct effects.

b. Visual Effects (check one):

i. [X] No Historic Properties in Area of Potential Effects ("APE") for visual effects;
ii. [ ] "No effect" on Historic Properties in APE for visual effects;
iii. [ ] "No adverse effect" on Historic Properties in APE for visual effects;
iv. [ ] "Adverse effect" on one or more Historic Properties in APE for visual effects.

[5] Include top-mounted attachments such as lightning rods.

Certification and Signature

I certify that all representations on this FCC Form 620 and the accompanying attachments are true, correct, and complete.

Signature

January 7, 2009
Date

Lyle C. Torp
Printed Name

Managing Director
Title

WILLFUL FALSE STATEMENTS MADE ON THIS FORM OR ANY ATTACHMENTS ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (U.S. Code, Title 18, Section 1001) AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. Code, Title 47, Section 312(a)(1) AND/ OR FORFEITURE (U.S. Code, Title 47, Section 503).

Attachments

Provide the following attachments in this order and numbered as follows:

Attachment 1: Résumés / Vitae

Attachment 2: Additional Site Information

Attachment 3: Tribal and NHO Involvement

Attachment 4: Local Government

Attachment 5: Public Involvement

Attachment 6: Additional Consulting Parties

Attachment 7: Areas of Potential Effects

Attachment 8: Historic Properties Identified in the APE for Visual Effects

Attachment 9: Historic Properties Identified in the APE for Direct Effects

Attachment 10: Effects on Identified Properties

Attachment 11: Photographs

Attachment 12: Maps

Attachment 1: Résumés / Vitae

LYLE C. TORP, RPA

Principal Investigator

EDUCATION

Catholic University of America, ABD, Anthropology
University of South Florida, M.A., Anthropology (Public Archeology), 1992
Wake Forest University, B.A., Anthropology, 1988

EXPERIENCE

Lyle Torp has 20 years of experience in Cultural Resource Management. He consults on issues related to compliance with Section 106 of the National Historic Preservation Act (NHPA), conducts environmental assessments under the National Environmental Policy Act (NEPA), and performs a variety of services related to archeological and historical assessments and historic preservation planning. He has extensive experience performing Phase I, Phase II and Phase III cultural resource investigations, and has served as Principal Investigator on numerous compliance-related projects. He has extensive experience in compliance-related studies for telecommunications projects, and has developed procedures for compliance with NEPA and Section 106 of the NHPA for a variety of clients in the telecommunications industry. Mr. Torp is fully-qualified under the Secretary of the Interior's Standards for Archeology and Historic Preservation at 36 CFR 61, and is certified in archeology by ROPA.

EMPLOYMENT SUMMARY

1998 – Present Managing Director, The Ottery Group

Since 1998, Mr. Torp has directed the operations of a consulting firm with a staff of fourteen cultural resource and environmental professionals. In this capacity he has augmented his prior work experience in conducting Phase I and Phase II ESAs, natural resource planning, and other environmental services with a diverse professional staff serving clients throughout the eastern United States.

CHRISTOPHER I. SPERLING

Archeologist/Historian

EDUCATION

George Mason University, Master of Arts, American History, 2005
George Mason University, Bachelor of Arts, Anthropology, 1996

EXPERIENCE

Mr. Sperling has thirteen years archeological experience including Phase I, II, and III terrestrial excavation, underwater remote sensing, underwater mapping, historical research, and historical and prehistoric artifact analysis. Mr. Sperling meets the Secretary of the Interior's Professional Qualification Standards (Archeology and History), under 36 CFR 61.

EMPLOYMENT SUMMARY

2004 – Present Archaeologist/Historian, The Ottery Group

Mr. Sperling serves as a Field Director for archaeological projects. Duties include the oversight of all archaeological and historical research, fieldwork, laboratory, and report preparation. He prepares historic contexts for use in archaeological and architectural history reports, and performs spatial analyses of archeological assemblages. He has conducted extensive historical research for a variety of projects as well as Phase II evaluations and Phase III data recovery projects. For telecommunications projects, Mr. Sperling has supervised numerous Phase I-A assessments and Phase I surveys throughout the Mid-Atlantic states.

NT SUBMISSION PACKET – FCC FORM 620
PROJECT NAME: Lyme-Beaver Brook Road

STACY C. PATTERSON
Architectural Historian

EDUCATION
Florida International University, Bachelor of Arts in History, 2004
University of Maryland, Masters in Historic Preservation, 2007

EXPERIENCE
Ms. Patterson is a 2007 graduate of the Historic Preservation graduate program at the University of Maryland. Ms. Patterson has completed several architectural assessments and surveys throughout the Mid-Atlantic region. She has experience photographing and mapping historic resources, the identification of character-defining architectural features, landscape assessments, archival research at several state historic preservation offices, development of historic contexts, and the preparation and submittal of Section 106 reports to SHPOs.

EMPLOYMENT SUMMARY

2007 – Present Architectural Historian, The Ottery Group, Inc.

Duties include conducting architectural surveys and field investigations, completion of evaluations and Determination of Eligibility forms for historic properties, performing archival research, and the preparation of National Register nominations.

2007 Intern, Montgomery County Historic Preservation Office, Silver Spring, MD

Worked with the staff and commission for the purpose of developing an Education and Outreach Plan for the immediate implementation. Served as the primary researcher and author of the plan, *Education and Outreach Plan for Historic Preservation in Montgomery County* (2007), during her time there.

COMPLETE CURRICULUM VITAE FOR PROJECT STAFF ARE ON FILE AT THE STATE HISTORIC PRESERVATION OFFICE. THE OTTERY GROUP IS LISTED ON THE STATE LIST OF PRESERVATION CONSULTANTS.

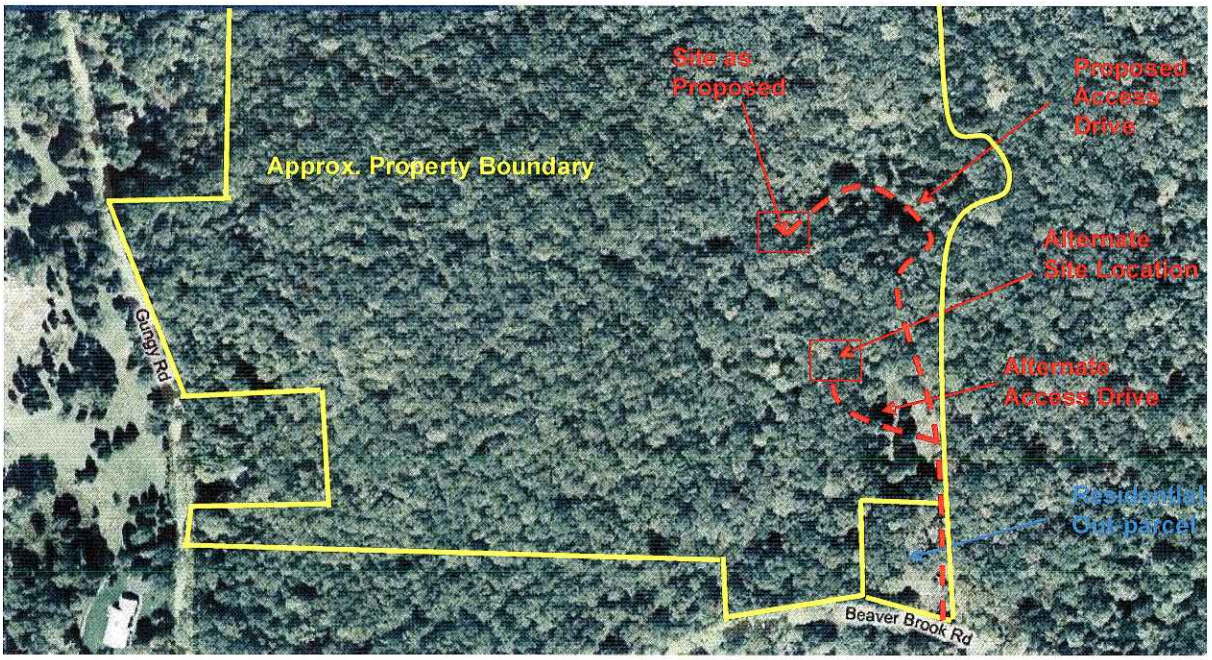
NT SUBMISSION PACKET – FCC FORM 620
PROJECT NAME: Lyme-Beaver Brook Road

Attachment 2: Additional Site Information

The undertaking consists of the construction of a telecommunications facility. The proposed facility will consist of a 180-foot monopole with an associated 12x20 equipment shelter and associated equipment contained within a 75 x 75-foot fenced compound. The subject site will be located in a wooded area north of Beaver Brook Road. The site will be accessed by a proposed 12-foot wide gravel access road that will follow an existing path from Beaver Brook Road. The access road will be located at the eastern edge of the property. To construct the access drive, some tree clearing and grading will be required. The site will be serviced by an existing utility pole on Beaver Brook Road. Site plans are provided below.

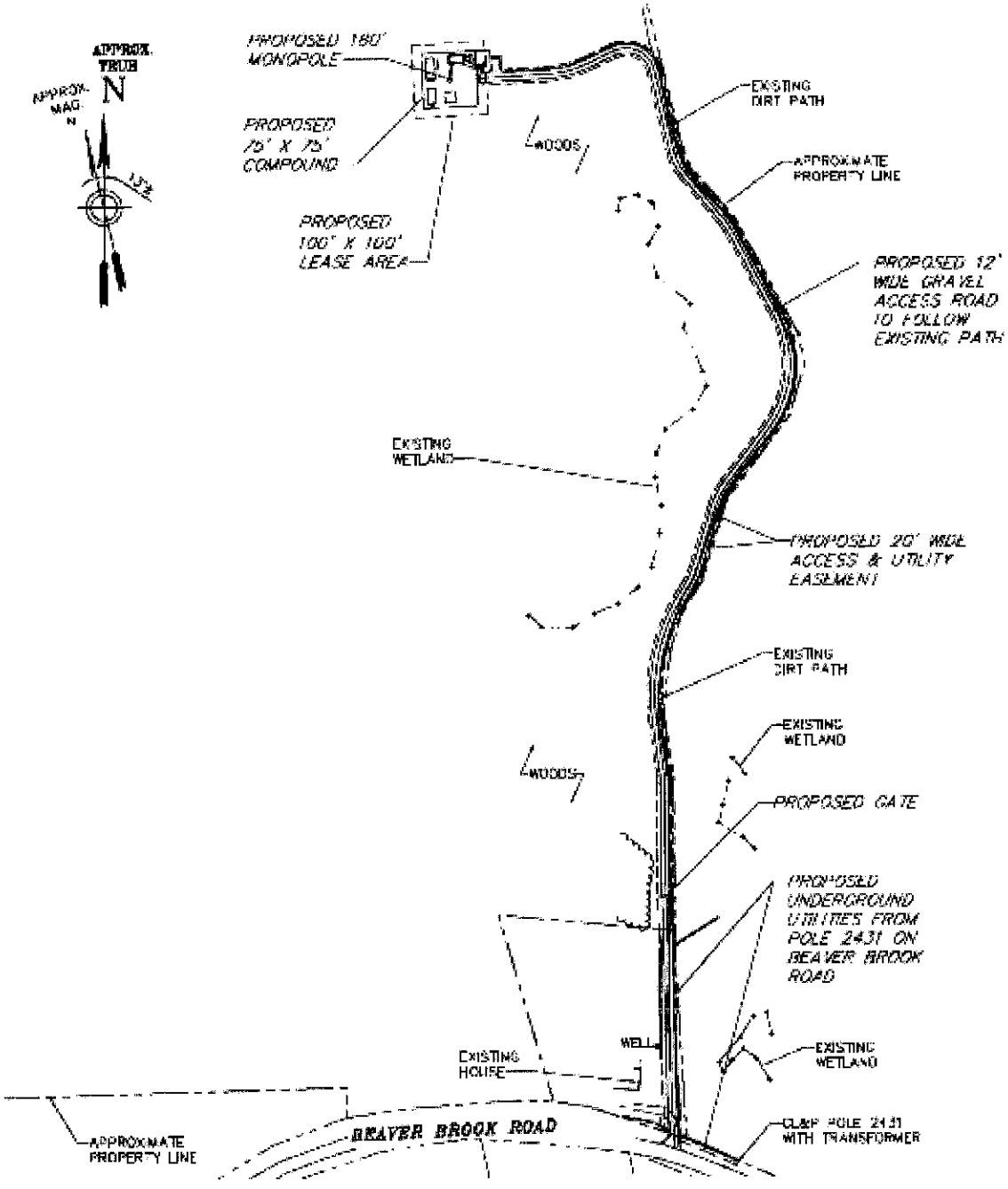
AT&T has an alternate location for the proposed telecommunications facility, which is located between the existing house and the preferred subject site. The compound on the site would be the same; however, the access drive would be much shorter. There is an open field to the south of the alternate location and a stream to the east.

The subject property is located on the north side of Beaver Brook Road, to the east of Gungy Road. The tract is a 100.85-acre wooded, undeveloped property located in a rural, residential area. Thee property owner also owns a house and well on a 1 acre out-parcel at the southeast corner of the subject property. Beaver Brook and associated wetlands run through the property, which is located in a wooded, rural, residential area at the north end of Lyme. Topographically, the area surrounding the subject property includes some relatively steep terrain.



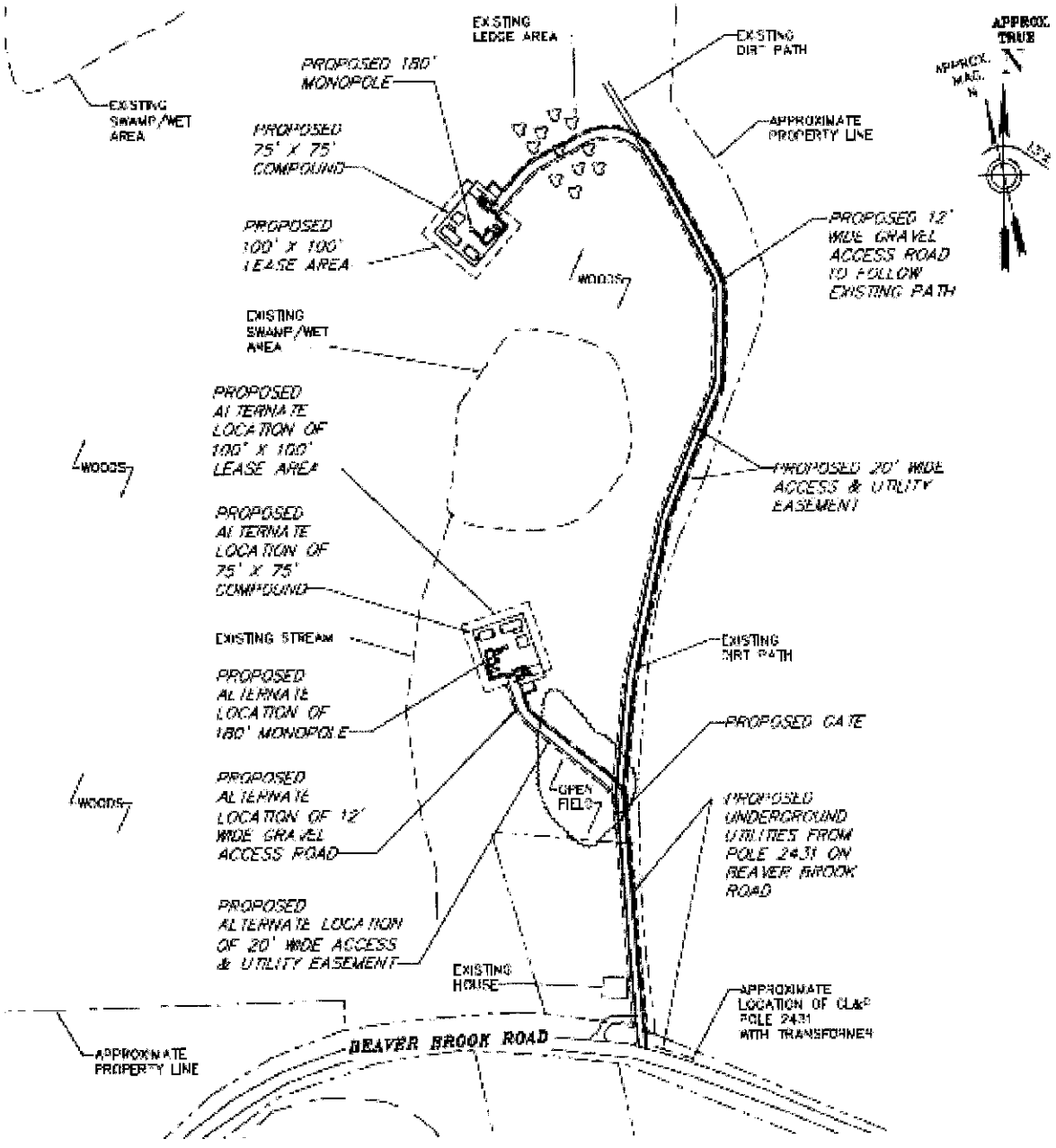
Aerial Photograph of the Project Area

NT SUBMISSION PACKET – FCC FORM 620
PROJECT NAME: Lyme-Beaver Brook Road

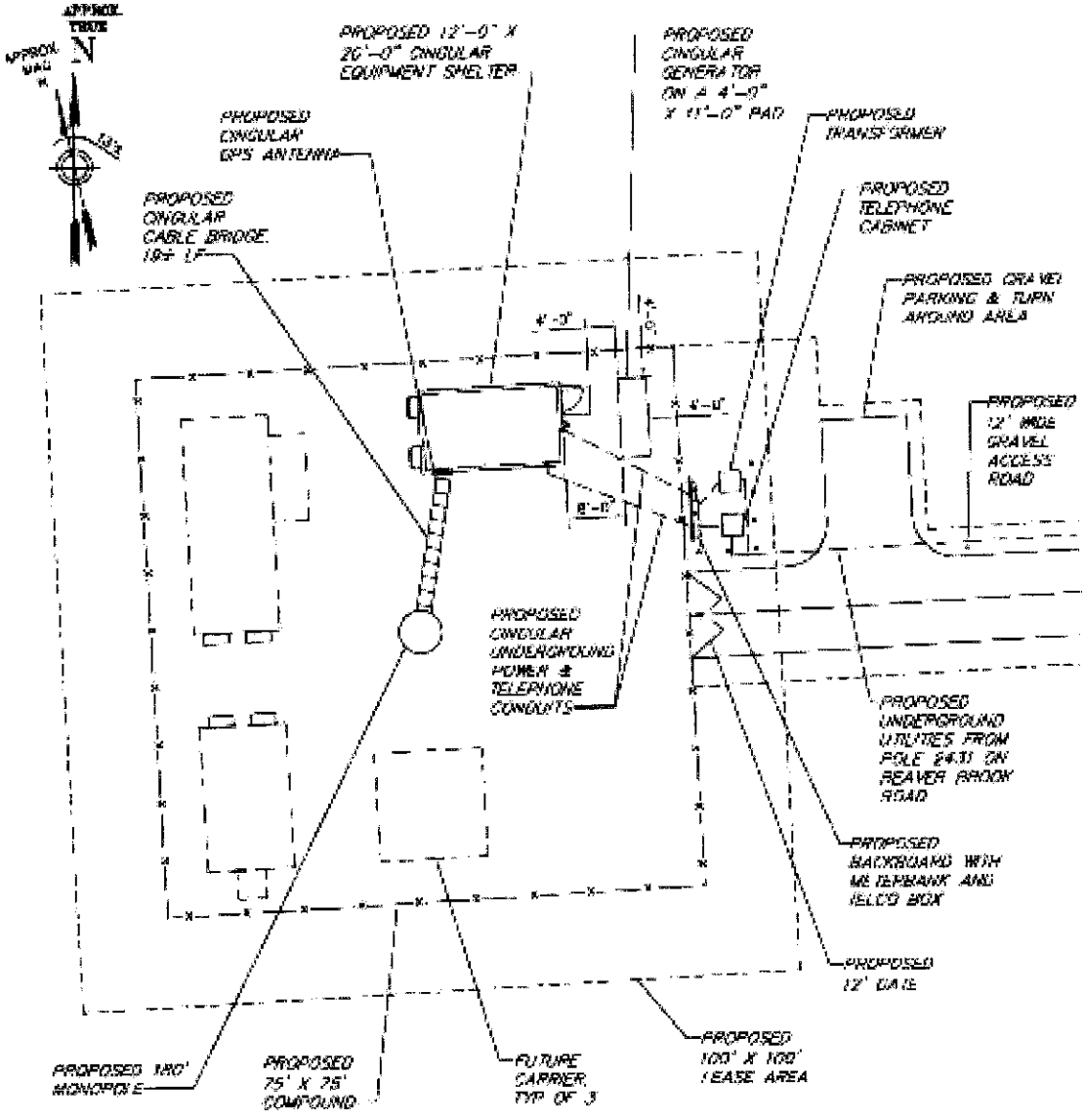


Proposed Site Plan

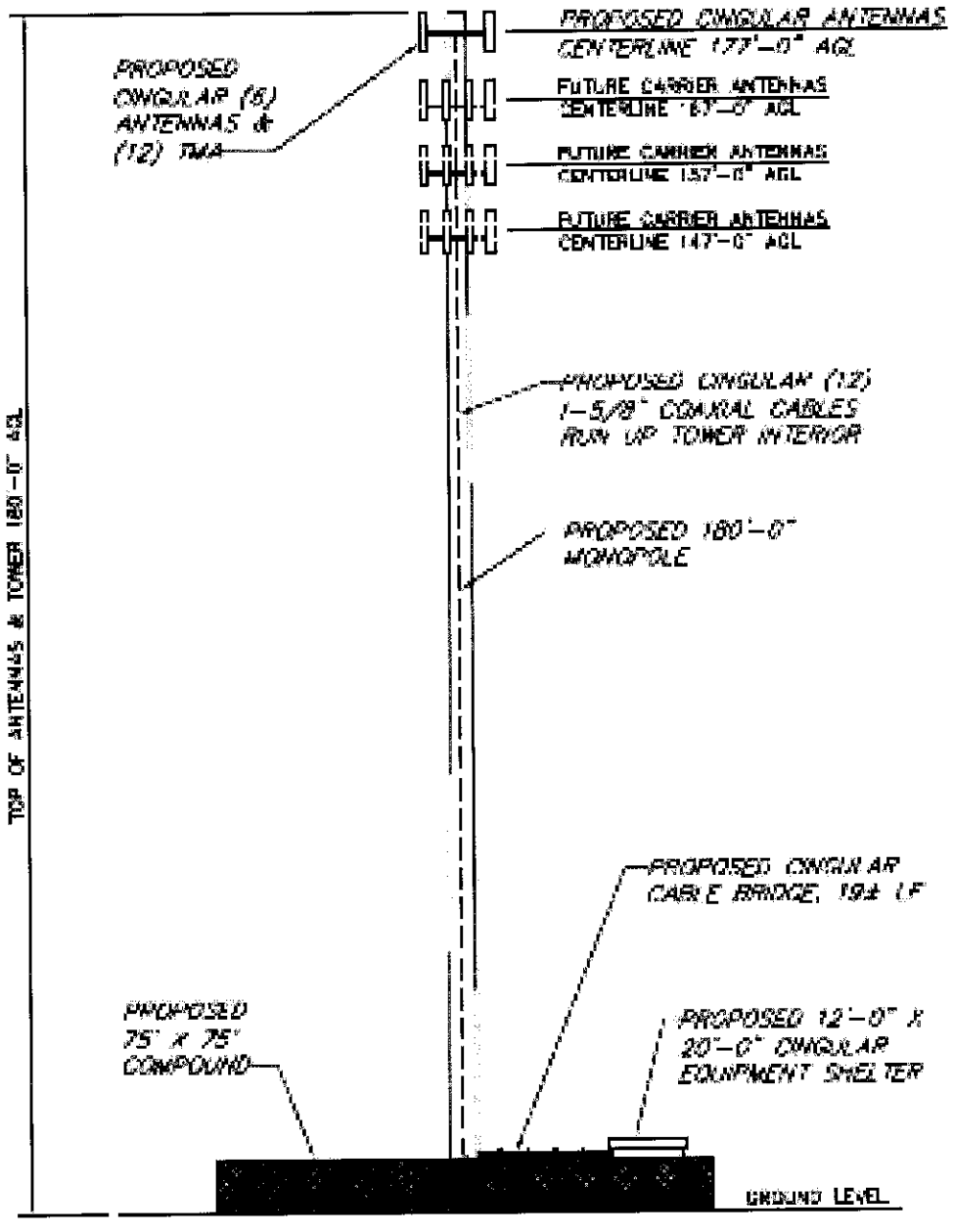
NT SUBMISSION PACKET – FCC FORM 620
PROJECT NAME: Lyme-Beaver Brook Road



Proposed Site Plan with Alternate Site Location



Proposed Partial Site Plan for Fenced Compound



Proposed Tower Elevation

Attachment 3: Tribal and NHO Involvement

Notification was made in the FCC's Tower Construction Notification System (TCNS) to identify Indian Tribes that may attach religious and cultural significance to cultural or historic properties that may be affected by the undertaking. The TCNS confirmation number for the proposed Lyme-Beaver Brook Road facility is 47101. TCNS was filed on 12/02/08. If AT&T Mobility identifies any tribes that request information on the planned undertaking, information will be provided to the tribe as requested.

According to the 2007 Bureau of Indian Affairs Tribal Directory, the federal government recognizes two Indian tribes in the State of Connecticut. The Ottery Group has notified the following tribes of the proposed undertaking. A copy of the correspondence is included as an attachment.

- Mashantucket Pequot Tribe
  Michael J. Thomas, Chairperson
  4 Matt's Path
  Mashantucket, CT 06338

- Mohegan Tribal Council
  Bruce Bozsum, Chairperson
  5 Crow Hill
  Uncasville, CT 06382

No responses have been received at this time. Please notify us if your office believes that there are other Indian Tribes that might like to comment on the proposed undertaking as specified under the Section 106 requirements.

Attachment 4: Local Government

The Ottery Group has notified the following local government agencies of the proposed undertaking. A copy of the correspondence is included as an attachment. To date, no responses have been received.

- Bernie Gigliotti
  Lyme Zoning Department
  480 Hamburg Road
  Lyme, CT 06371

Please notify us if your office believes that there are other agencies that might like to comment on the proposed undertaking as specified under the Section 106 requirements for consultation.

Attachment 5: Public Involvement

Pursuant to 36 CFR 800.3(e), AT&T has been advised of the requirement to develop an appropriate plan to involve the public. A public hearing will be scheduled at a future time by AT&T. A public notice regarding the proposed undertaking was posted in *The Day* on December 19, 2008 regarding the proposed tower construction and providing the public an opportunity to comment. To date, no responses have been received.

Public Notice

AT&T Mobility intends to construct a telecommunications facility at 322 Beaver Brook Road, in Lyme, CT. AT&T seeks comment from interested persons on the impact of the facility on historic properties. All questions and comments about the planned telecommunications facility, including the environmental impact and historic preservation reviews that AT&T is conducting pursuant to the rules of the Federal Communications Commission (47 CFR Section 1.1307), should be directed to Judy Owens, AT&T Mobility, 500 Enterprise Drive, Rocky Hill, CT 06067 or Judy.A.Owens@att.com by January 12, 2009.

Attachment 6: Additional Consulting Parties

The Ottery Group has notified the following potential consulting parties of the proposed undertaking. A copy of the correspondence is included as an attachment. To date, no responses have been received.

- Lyme Historical Society
  96 Lyme Street
  Old Lyme, CT 06371

Please notify us if your office believes that there are other consulting parties that should be invited to comment on the proposed undertaking as specified under the Section 106 requirements for consultation.

Attachment 7: Areas of Potential Effects

Area of Potential Effects for Direct Effects

The APE for direct effects consists of the area directly impacted by the undertaking by the construction of the telecommunications facility. The APE for direct effects is confined to the area of ground disturbance (the area leased by the tower builder, including access easements) with respect to the potential impact to archeological resources, and to the subject property with respect to above-ground resources.

Area of Potential Effects for Visual Effects

In order to assess the indirect (visual) effects of the planned undertaking on National Register-listed or eligible properties, the APE is based on a consideration of the type of facility, the topography of the surrounding area, and existing tree cover and nature of the built environment in the vicinity of the proposed facility. The Nationwide Programmatic Agreement governing new tower construction indicates that, unless otherwise established through consultation with the SHPO/THPO, the presumed APE for visual effects relative to the construction of new facilities is a) 0.5-mile radius for towers 200 feet or less in overall height, b) 0.75-mile radius for towers greater than 200 but no more than 400 feet in overall height; or, c) 1.5-mile radius for towers greater than 400 feet in overall height.

At the time of the site inspection, the APE was determined to be appropriate given the nature of the surrounding area. No adjustments are recommended to the APE as defined under the Nationwide Programmatic Agreement, and 0.5-mile radius was considered acceptable for establishing visual impacts of the planned undertaking based on an overall height of 180 feet above ground surface for the proposed structure.

Attachment 8: Historic Properties Identified in the APE for Visual Effects

Information on NRHP-listed properties was obtained using the National Register Information System. Previously compiled contextual information on the history of the surrounding area was also reviewed. The National Programmatic Agreement defines historic properties as:

- Properties listed in the National Register of Historic Places;
- Properties formally determined eligible for listing by the Keeper of the National Register;
- Properties that the SHPO certifies are in the process of being nominated to the National Register;
- Properties previously determined eligible for listing as part of a consensus determination of eligibility between the SHPO and the Federal Agency;
- Properties listed in the Connecticut State Historic Resource Inventory (SHRI) that have been previously evaluated and determined to be eligible for the National Register.

A search of the National Register Information System database identified no NRHP-listed historic districts and no NRHP-listed properties within the 0.5-mile APE. A file review at the Thomas J. Dodd Research Center identified no resources in the APE that has been formally determined eligible for listing in the National Register of Historic Places.

Inventoried Properties within the APE for Visual Effects

Property	Address/Location	NR Status	Distance
None identified			

The following properties were identified through the field survey (subject property and adjacent properties only), comments of Indian Tribes, NHOs, local governments, or members of the public. Under the NPA, unevaluated resources are not considered historic properties.

Previously Non-Inventoried and Unevaluated Properties within the APE for Visual Effects

Property	Address/Location	Source	NR Eligibility	Distance
None identified				

Attachment 9: Historic Properties Identified in the APE for Direct Effects

An Archeological Assessment (see attached) was conducted at the preferred and alternative proposed telecommunications facility locations. The assessment included limited archival research to determine the presence or absence of previously identified archeological sites and a review of historic maps utilizing the Map and Geographic Information Center (MAGIC) website of the University of Connecticut Library. Fieldwork consisted of a visual inspection of the APE for direct effects to archeological resources and the excavation of non-systematic shovel test pits (STPs) within the proposed preferred and alternative project footprints.

During the mid-nineteenth century, there was a moderate amount of infrastructure and residential development in Lyme. Both the 1854 Map of New London County and the 1868 Map of Lyme show the presence of Beaver Brook Road, Gungy Road, and Grassy Hill Road. These three roads currently border the subject property to the south, west, and east, respectively. There are several property owners in the vicinity, evident on both maps. No property boundaries are evident on either map. However, during the mid-nineteenth century the subject property appears to be on land owned by either a J.M. Beebe or an R.W. Lee. No structures are evident in the APE vicinity. There is also a school evident on the map, located south of the subject property on the opposite side of Beaver Brook Road.

The visual inspection identified no artifacts or other evidence of past human activity. Two STPs were excavated within the footprint of the proposed preferred facility location and two STPs were excavated at the proposed alternate location. No artifacts were identified and no subsurface features were noted at either location. Based on the results of the archeological assessment, neither the proposed preferred facility location nor the proposed alternate facility location are considered likely to contain significant historic or prehistoric archeological resources. The archeological assessment recommends no additional archeological investigation.

There are no buildings over 45 years of are located within the APE for direct effects. The residence on the out-parcel was constructed in the 1960s.

Properties within the APE for Direct Effects

Property	Address/Location	NR Status	Distance
none identified			

Attachment 10: Effects on Identified Properties

Assessment of Indirect/Visual Effects

Factors of topography, intervening tree cover and the character of the built environment as well as distance and line-of-sight were considered in the assessment of the effects of the proposed undertaking on above-ground resources within the APE. Effects were evaluated for those properties that are consisted "historic" under the terms established by the NPA.

A recommendation of *no effect* was applied to resources where the undertaking would not be visible or when the identified property is not considered historic under the terms of the NPA and the Maryland Guidelines. The *no effect* determination is also applied to properties that have been significantly altered or have deteriorated to such a degree that they no longer retain integrity of design or materials, thereby making the property ineligible for listing in the National Register regardless of visual factors.

A *no adverse effect* recommendation is applied when the undertaking is only minimally visible from historic properties (i.e., the visibility is not intrusive). *No adverse effect* recommendations are usually made when the visibility of the telecommunications facility does not diminish those qualities (feeling, setting, or association) that convey the significance of the property.

An *adverse effect* recommendation is applied to those properties listed in, or determined eligible for, the NRHP, and where the visibility of the telecommunications facility would be intrusive on a historic property to a level that the integrity of the setting, feeling, or association is significantly altered, and that the qualities that make the property eligible are substantially diminished.

Assessment of Direct Effects

Direct effects include the physical alteration of the design, materials, workmanship, and association of a historic property by construction or demolition related to the undertaking as well as the alteration of the character of the property (feeling, setting, or association) by the introduction of intrusive visual elements that diminish those qualities that convey the significance of the property.

Effects on Identified Properties

A survey of the APE noted no properties or districts listed on the State Historic Resource Inventory for Connecticut and no properties or districts listed on, or formally determined eligible for listing on, the National Register of Historic Places.

The house on the subject property was built in 1960 and does not meet NR criteria for eligibility. As no buildings over 45 years of age are located on the subject property, it is recommended that the undertaking will have *no effect* with respect to direct effects to historic architectural resources. The undertaking will have *no effect* on archeological resources.

There are no National Register eligible or listed resources or districts within the APE; therefore it is recommended that the undertaking has *no effect* on resources within the APE for visual effects.

Alternatives Considered

Although alternative locations were assessed for suitability by AT&T only the preferred undertaking is presented in this assessment. AT&T provided documentation for an alternative site location on the same subject property on their initial site plans.

NT SUBMISSION PACKET – FCC FORM 620
PROJECT NAME: Lyme-Beaver Brook Road

Attachment 11: Photographs

Photo 1:

View of the general setting of the proposed site location from the access path.

Photo 2:

View of the wetlands to the south of the proposed facility will be located.

Photo 3:

View of the existing house on the subject property. The house dates to 1960 and is not likely to meet the criteria for NR eligibility.

Photo 4:

View facing north from the site location.

Photo 5:

View facing south from the site location.

Photo 6:

View facing east from the site location.

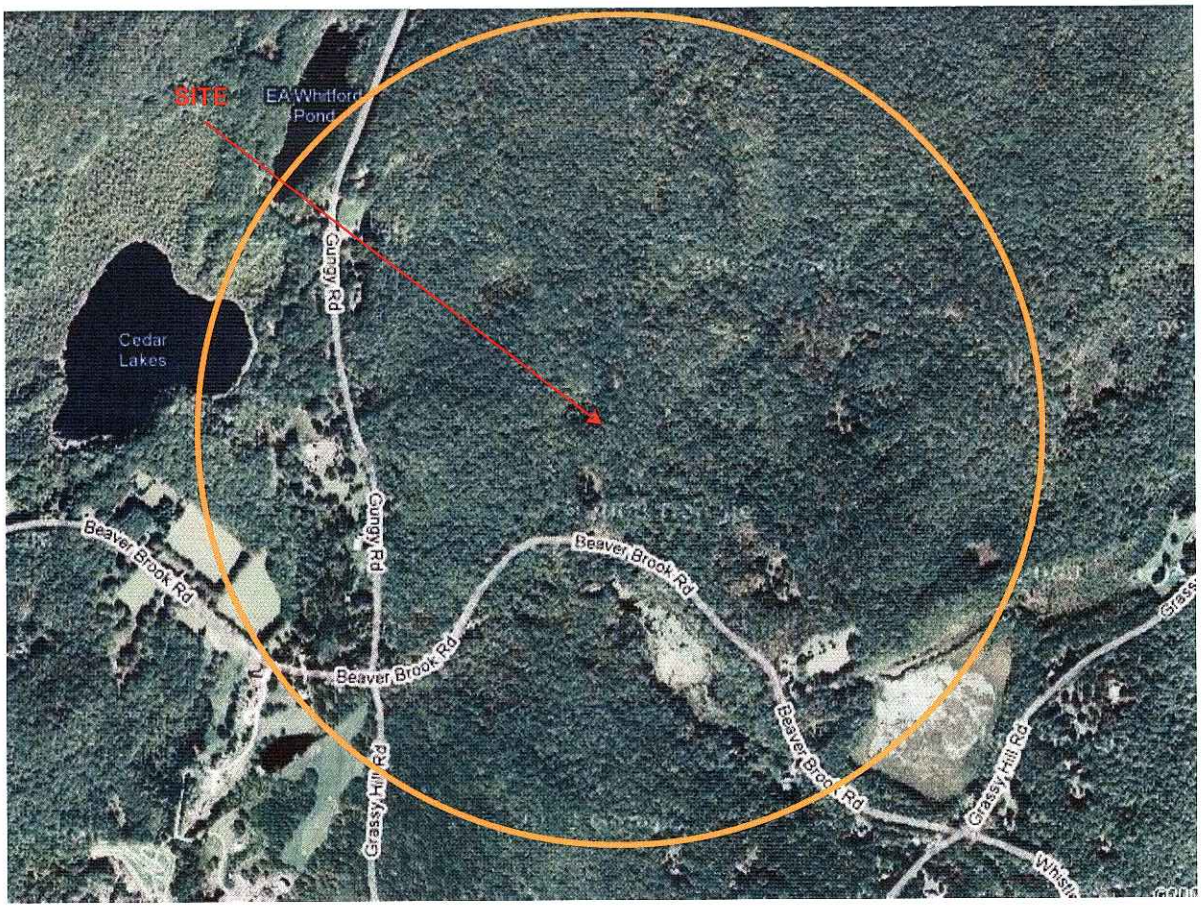
Photo 7:

View facing west from the site location.

Photo 8:

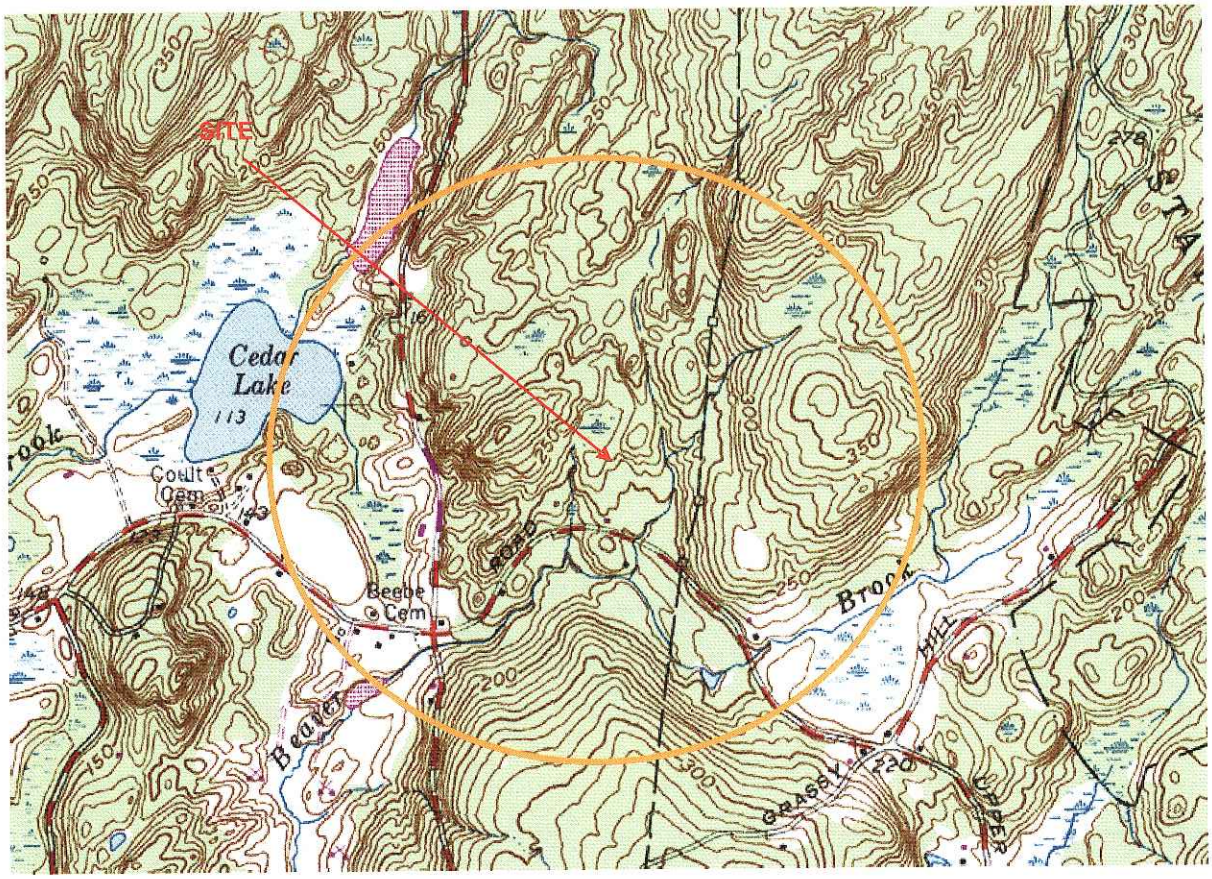
View of the planned route of the access drive from the subject site, facing south.

NT SUBMISSION PACKET – FCC FORM 620
PROJECT NAME: Lyme-Beaver Brook Road



Aerial Photograph of the 0.5-mile APE

Attachment 12: Maps



Hamburg, USGS 7.5 Minute Topographic Map
Depicting the Location of the Planned Undertaking and the 0.5-mile APE

Attribution and Bibliographic Standards

In addition to documents included in this packet and citations made directly within the body of this report, the following sources of information were utilized in the preparation of this report:

- Connecticut State Historic Resource Inventory, architectural inventories and archeological site files (November 10, 2008)
- Nationwide Programmatic Agreement of October 5, 2004
- National Register Information System (December 9, 2008)
- Archeological Assessment for the proposed Lyme-Beaver Brook Road Telecommunications Facility: 322 Beaver Brook Road, Lyme, New London County, Connecticut. Prepared by the Ottery Group (November 2008).
- Aerial photograph (2008) available from (http://maps.live.com/)
- Hamburg, CT USGS 7.5 minute quadrangle map

THE OTTERY GROUP

Archeological Assessment for the Proposed
Lyme – Beaver Brook Road Telecommunications Facility,
322 Beaver Brook Road
Lyme, New London County, Connecticut

December 15, 2008

Prepared By:
Kristin Pryor and Christopher Sperling, MA,
Lyle C. Torp, RPA (Principal Investigator)

The Ottery Group has prepared this technical memorandum detailing the results of an archeological assessment conducted at the site of the proposed Lyme – Beaver Brook Road Telecommunications Facility including an alternative site placement option. The preferred and alternate site locations occupy a rural, wooded area of Lyme, New London County, Connecticut. The Ottery Group conducted the archeological assessment on behalf of AT&T Mobility.

The archeological assessment was prepared as supplemental documentation to the FCC Form 620 packet and is intended solely to provide sufficient information in a summary format to assist consultation efforts under the Nationwide Programmatic Agreement which dictates the manner in which Section 106 of the NHPA is implemented for FCC licensed undertakings. The objective of the assessment is to provide recommendations on whether archeological resources may be present in the project area in order to assist consulting parties in determining whether an identification (Phase I) or evaluation (Phase II) is warranted. The assessment is intended to facilitate the ability of consulting parties to make informed decisions about the potential of the planned undertaking to result in direct affects to archeological resources. Limited archival research was conducted to identify previously recorded archeological resources within or in the immediate vicinity of the impact area. Field investigation was conducted to determine site conditions, the degree of ground disturbance, and the presence of cultural material. Fieldwork consisted of a surface inspection of exposed ground surfaces and the excavation of non-systematic shovel test pits (STPs) at the preferred and alternate locations.

The location of the project area is illustrated in Attachment 1. The Area of Potential Effect (APE) for direct effects to archeological resources includes the areas of ground disturbance associated with construction activities. The undertaking consists of a 75-foot by 75-foot fenced compound enclosing a 180-foot tall monopole and equipment cabinets. A proposed alternate site is located 500 feet south of the preferred location; the configuration of the alternate site is identical to that proposed for the preferred location. Site plans depicting the preferred and alternate site locations are provided as Attachment 2.

Environmental Setting

The proposed facility location is situated in the southern portion of the Connecticut River Basin (DEP 2007). The closest water source is a small tributary of Beaver Brook located approximately 760 feet southwest of the project area that empties into a wetland area adjacent to the south of project area. This brook and wetland system feeds into the main branch of Beaver Brook approximately 1,060 feet to the southwest of the project area. Cedar Lake is located approximately 2,380 feet west of the project area. Both the proposed preferred and alternate facility locations are situated at an approximate elevation of 250 feet above mean sea level (AMSL).

The project area is in a wooded, low-lying wetland area of New London County. North of the project area the landscape slopes upwards with and consists of several ridges and limestone rock outcrops. The NRCS (2008) maps Hollis-Chatfield-Rock outcrop Complex, 15-45 percent slopes (75E). These somewhat excessively-drained soils are comprised primarily of coarse-loamy melt-out till derived from granite and/or schist and/or gneiss.

Archeological Potential

An archeological predictive model uses environmental factors from the locations of previously identified archeological sites to extrapolate the likely locations of sites that have yet to be found. The results of the model evaluate archeological potential, the likelihood of archeological sites to be present in a given location. Potential is identified in a scale of high, medium, and low. Modern or historical disturbance to an area can lessen the potential of encountering intact archeological sites. Based on generally accepted predictive models, the most likely location for prehistoric habitation sites is on relatively level, well-drained soils within 150 meters of fresh water, particularly at stream confluences and headwaters.

Historic period archeological sites are more accurately defined through cultural rather than environmental variables. Means of transportation are keys to the presence of domestic and industrial sites. These sites are usually situated within 100 meters of an historic roadway or navigable waterway. Historic maps are effective in documenting changes in the development of towns since the mid nineteenth century.

The absence of previously recorded archeological sites in the project vicinity does not necessarily increase or diminish the probability of encountering archeological sites in the APE, unless a previously identified archeological site is known to exist within or immediately adjacent to the APE. The absence or low quantity of previously identified archeological sites is typically a result of the lack of systematic professional survey and is not considered a reason to discount the likelihood for archeological sites to be present within the project APE.

Documentary Research

An online review was conducted at the Map and Geographic Information Center (MAGIC) website of the University of Connecticut Library in order to chart the historic development of the project area vicinity. During the mid-nineteenth century, there was a moderate amount of infrastructure and residential development in Lyme. Both the 1854 Map of New London County and the 1868 Map of Lyme show the presence of Beaver Brook Road, Gungy Road, and Grassy Hill Road. These three roads currently border the subject property to the south, west, and east, respectively. There are several property owners in the vicinity, evident on both maps. No property boundaries are evident on either map. However, during the mid-nineteenth century the subject property appears to be on land owned by either a J.M. Beebe or an R.W. Lee. No structures are evident in the APE vicinity. There is also a school evident on the map, located across Beaver Brook Road, to the south of the subject property (see Attachments 5 and 6).

Results of Archeological Assessment

A visual inspection of the general area was conducted to determine if cultural materials or archeological features were exposed on ground surfaces. The proposed preferred location is situated on a low lying wetland area surrounded by deciduous and coniferous trees. Several rock outcroppings occur in the vicinity of the proposed facility. The proposed alternate location is located northwest of an open field, due south of the proposed preferred location. This area is also low-lying and in a wooded area consisting of primarily coniferous trees. No artifacts were identified during the visual inspection. The landscape contained no overt signs of archeological features.

Two STPs were excavated within the footprint of the proposed preferred facility. The STPs measured approximately 35-centimeters (cm) in diameter. Soils were screened through ¼-inch hardware mesh to recover artifacts present in the soil horizons; the STPs were backfilled after recordation. The soil column in STP-1 consisted of a top organic layer measuring 3cm underlain by a brown (10YR4/4) sandy loam excavated to bedrock/large till at a depth of 17cm. STP-2 was excavated to a depth of 23cm. The first two strata were consistent with the first STP; excavation encountered a third, brownish yellow (10YR6/6) stratum measuring from 14cm to 23cm below surface. No artifacts were identified and no subsurface features were noted.

Two STPs were excavated within the footprint of the proposed alternate location as well. Both STPs measured approximately 35cm in diameter and were excavated to 27cm in depth. The soil profiles of both tests were consistent with that noted in STP-2 at the preferred site location.

Recommendation

The location of the proposed telecommunications facility is considered to posses a low potential for prehistoric habitation sites; despite excessive-drained soils, the low-lying setting would have deterred long-term settlement. The project area is considered to possess a medium to high potential for the presence of resource allocation activities. The project area is located near small streams and wetlands that would support diverse floral and faunal communities appealing for prehistoric exploitation. However, these sites tend to present as ephemeral scatters lacking archeological features or diagnostic artifact assemblages. The project area is considered to possess a low probability for historic archeological resources. Despite the proximity to a well-established road network, historic maps depict little development in the project area vicinity and the low-lying setting would not have been favorable for historic residential development. Testing conducted within the proposed preferred and proposed alternative facility locations failed to identify historic or prehistoric deposits. Accordingly, the proposed preferred and alternate facility locations are considered unlikely to possess significant archeological deposits. No additional archeological investigation is recommended.

Attachments: Attachment 1: Site Location on USGS Hamburg, CT Quadrangle
Attachment 2: Site Drawing w/ STP Location
Attachment 3: Photographs of the Project Area
Attachment 4: Photographs of the Proposed Alternate Location
Attachment 5: Approximate Project Area Location on 1854 Map
Attachment 6: Approximate Project Area Location on 1868 Map

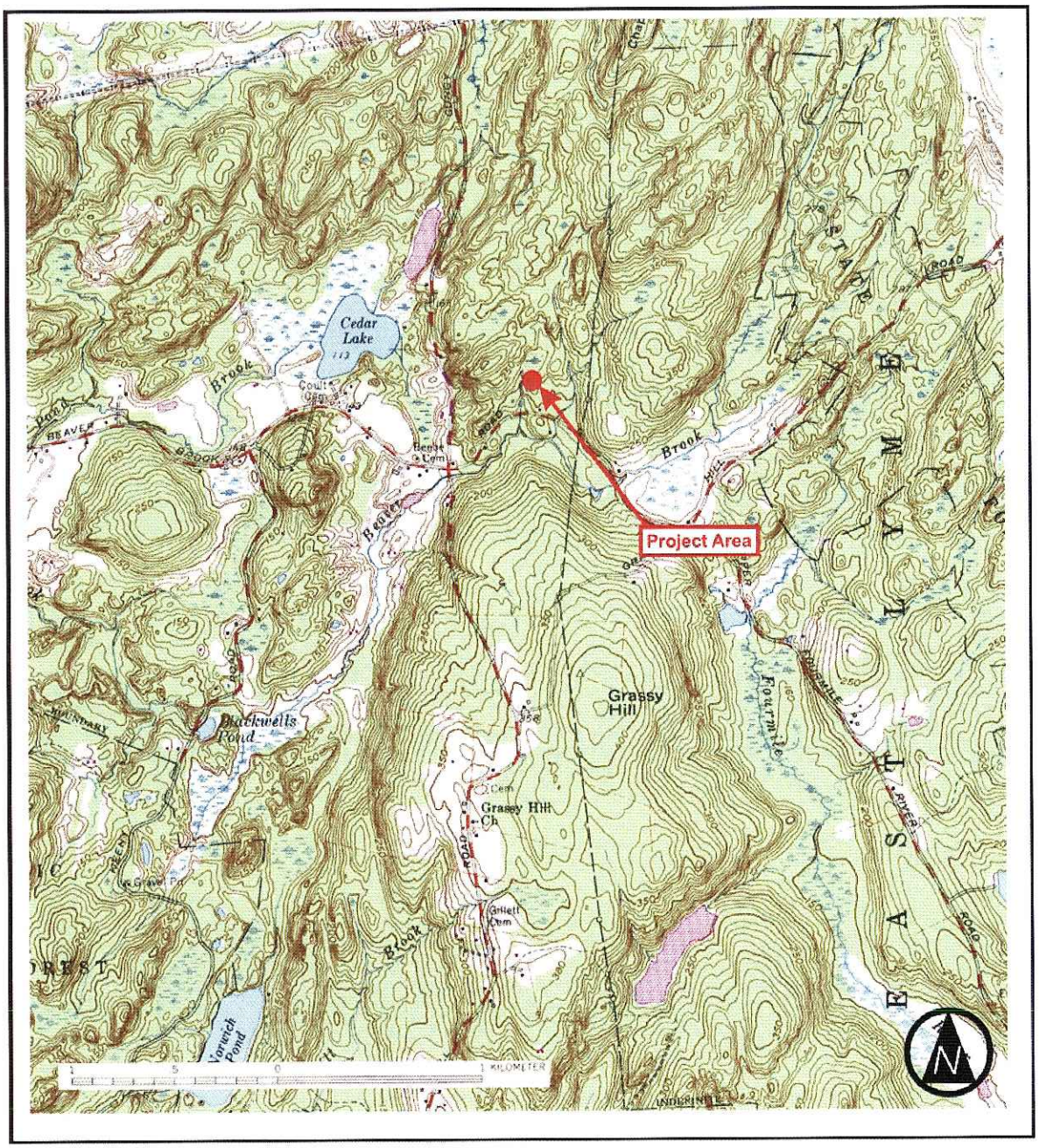
References Cited or Consulted

Connecticut Department of Environmental Protection (DEP)
n.d. Index Maps. Available at http://www.ct.gov/dep/site/default.asp. (December 11, 2008).

Natural Resources Conservation Service (NRCS)
2008 National Cooperative Soil Survey (NCSS) Web Soil Survey. United States Department of Agriculture. Washington D.C. http://websoilsurvey.nrcs.usda.gov/app/.

Unknown
1868 Map of Lyme, New London County, Connecticut. Available at the Map and Geographic Information Center (MAGIC), Historical Scanned Map Collection. University of Connecticut. http://magic.lib.uconn.edu/. (December 11, 2008)

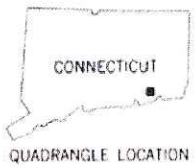
Walling, Henry Francies
1854 Map of New London County, Connecticut. Available at the Map and Geographic Information Center (MAGIC), Historical Scanned Map Collection. University of Connecticut. http://magic.lib.uconn.edu/. (December 11, 2008)

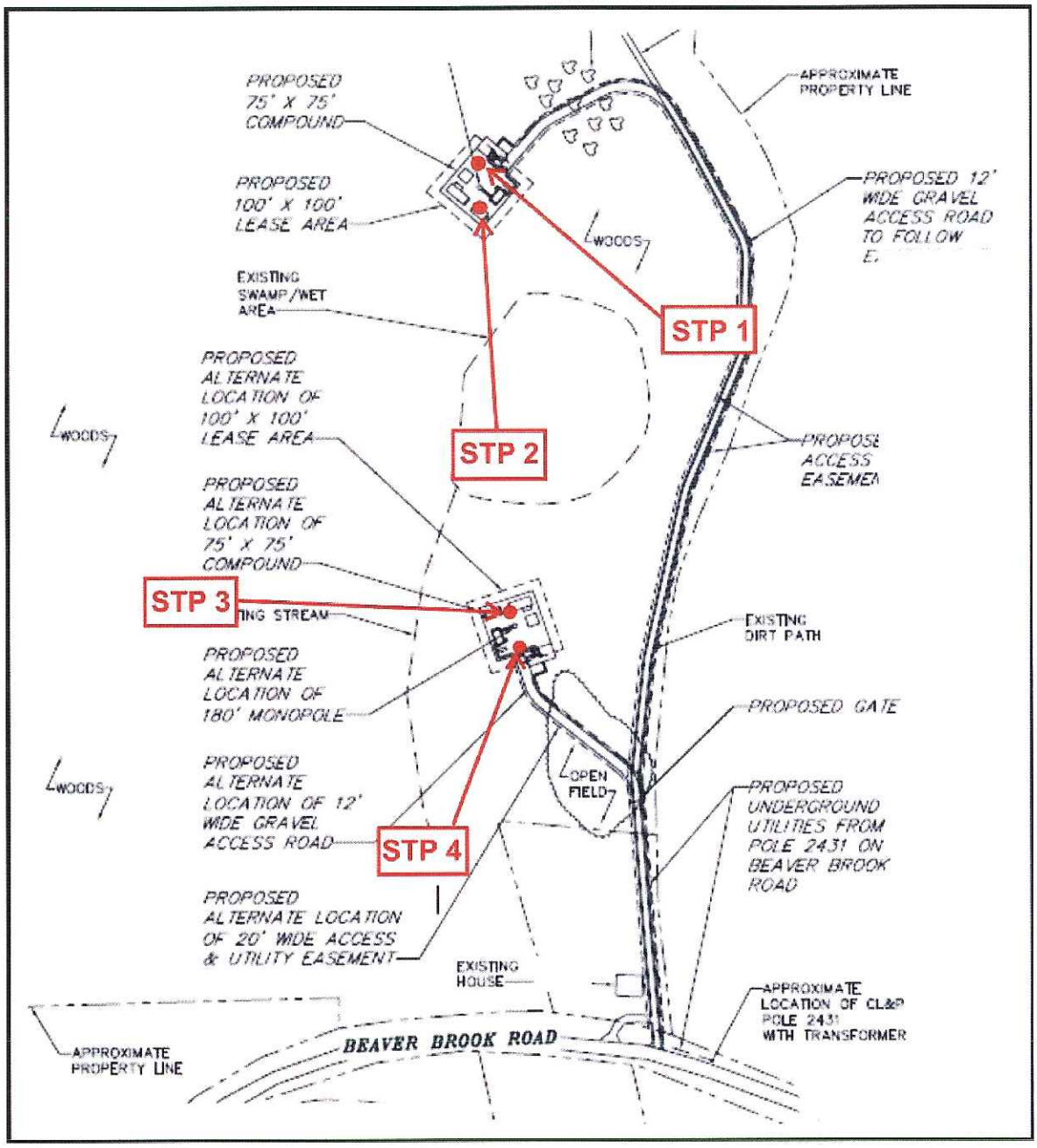


THE OTTERY GROUP
3420 Morningwood Drive
Olney, MD 20832
phone (301) 562-1975
fax (301) 562-1976

Attachment 1:

Site Location on 7.5 Minute USGS
Hamburg, CT Quadrangle (1984)





THE OTTERY GROUP
3420 Morningwood Drive
Olney, MD 20832
phone (301) 562-1975
fax (301) 562-1976

Attachment 2:

Site Drawing including STP Locations

Project Area Facing North

Project Area Facing South

THE OTTERY GROUP
3420 Morningwood Drive
Olney, MD 20832
phone (301) 562-1975
fax (301) 562-1976

Attachment 3:

Photographs of Proposed Preferred Location

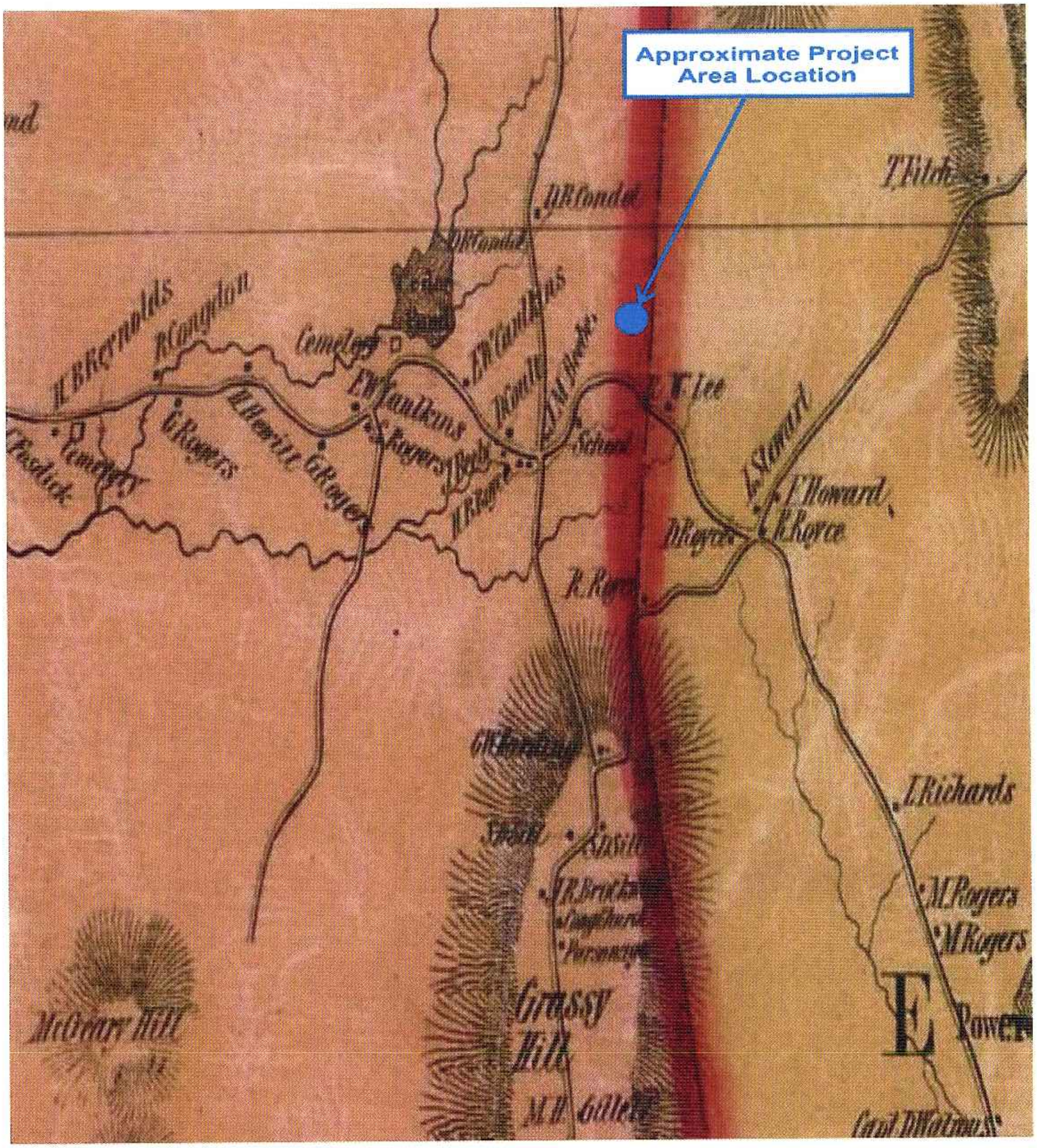
Project Area Facing East

Project Area Facing South

THE OTTERY GROUP
3420 Morningwood Drive
Olney, MD 20832
phone (301) 562-1975
fax (301) 562-1976

Attachment 4:

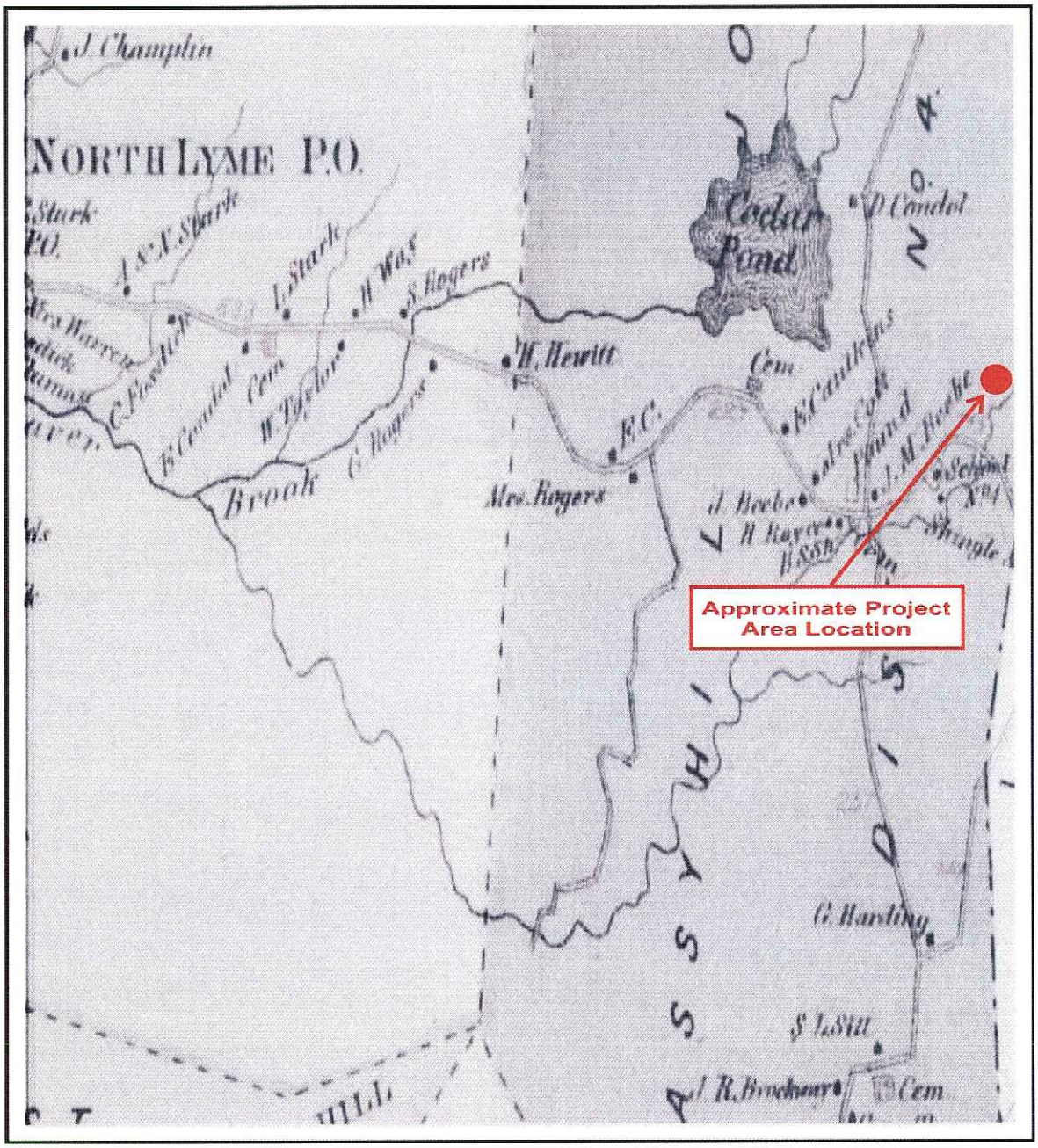
Photographs of Proposed Alternate Location



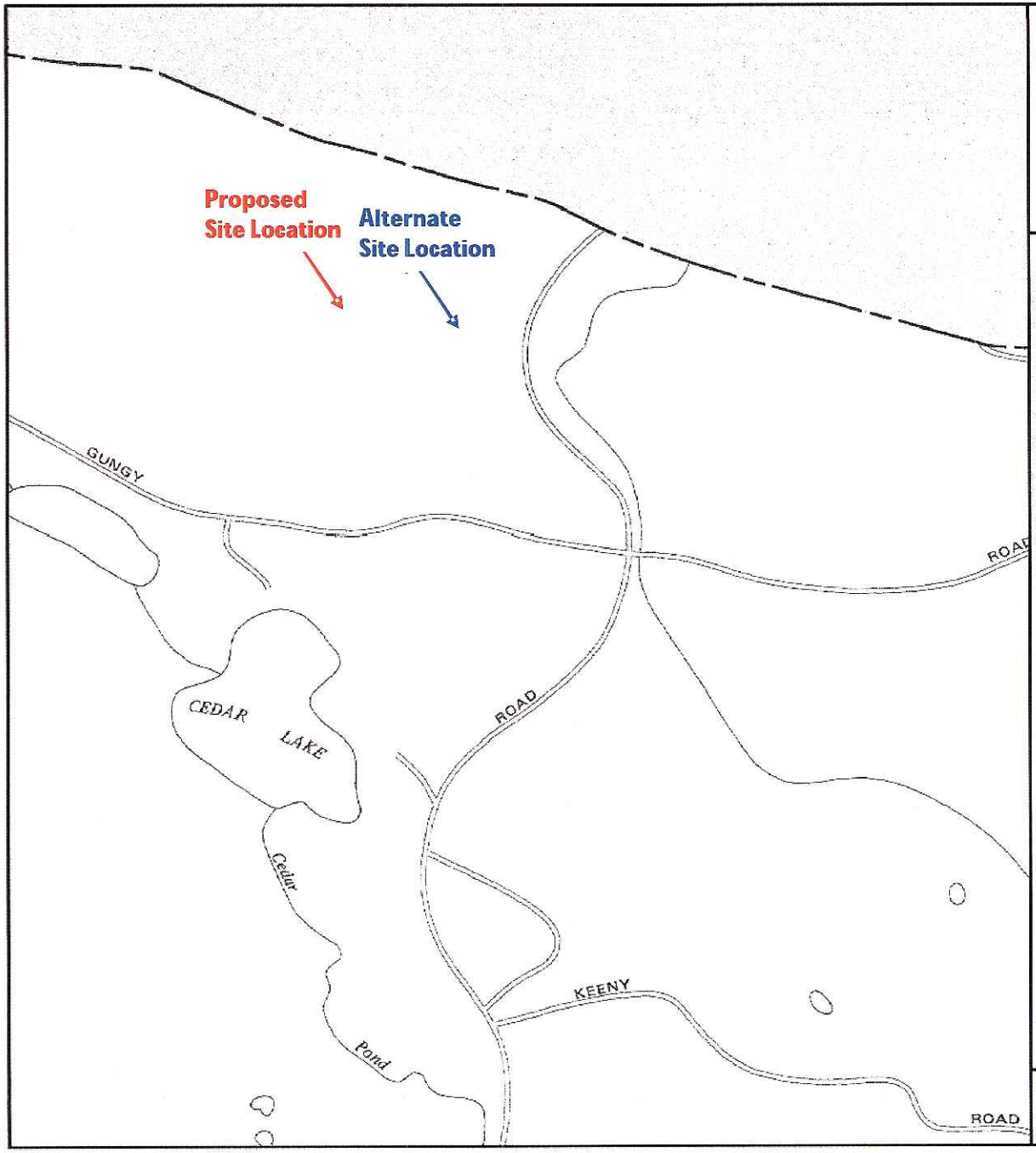
THE OTTERY GROUP
3420 Morningwood Drive
Olney, MD 20832
phone (301) 562-1975
fax (301) 562-1976

Attachment 5:

Approximate Project Area Location on Walling 1854 Map of New London County, Connecticut



THE OTTERY GROUP 3420 Morningwood Drive Olney, MD 20832 phone (301) 562-1975 fax (301) 562-1976	**Attachment 6:** Approximate Project Area Location on 1868 Map of Lyme, New London County, Connecticut



APPROXIMATE SCALE

1000 0 1000 FEET

NATIONAL FLOOD INSURANCE PROGRAM

FLOOD INSURANCE RATE MAP

TOWN OF
LYME,
CONNECTICUT
NEW LONDON COUNTY

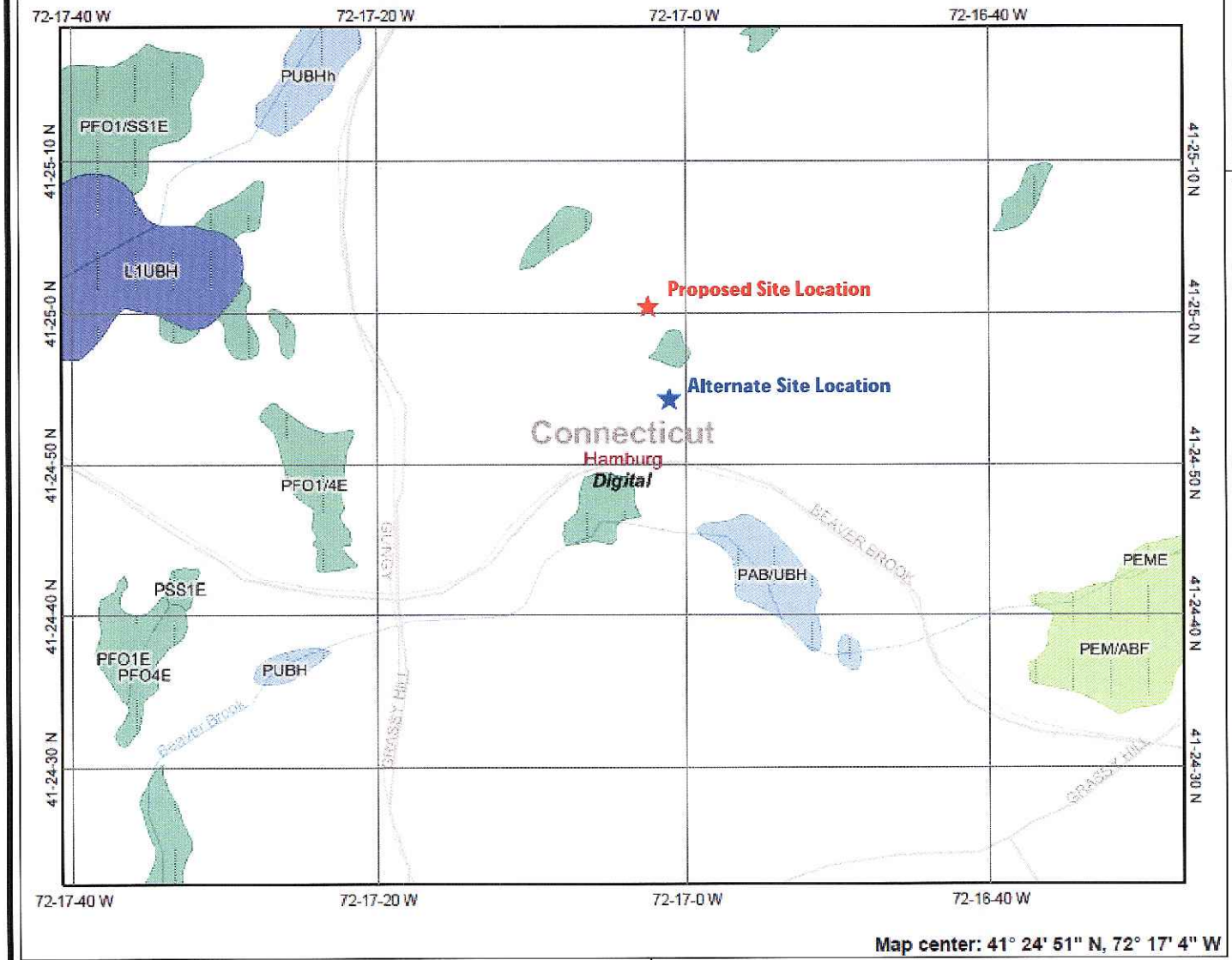
COMMUNITY-PANEL NUMBER
090127 0001 A

PAGE 1 OF 2
(SEE MAP INDEX FOR PAGES NOT PRINTED)

EFFECTIVE
JANUARY 3, 1979

U.S. DEPARTMENT OF HOUSING
AND URBAN DEVELOPMENT
FEDERAL INSURANCE ADMINISTRATION

Lyme - Beaver Brook Road NWI Map



Legend

Ohio_wet_scan
0
1
Out of range
Interstate
Major Roads
Other Road
Interstate
State highway
US highway
Roads
Cities
USGS Quad Index 24K
Lower 48 Wetland Polygons
Estuarine and Marine Deepwater
Estuarine and Marine Wetland
Freshwater Emergent Wetland
Freshwater Forested/Shrub Wetland
Freshwater Pond
Lake
Other
Riverine
Lower 48 Available Wetland Data
Non-Digital
Digital
No Data
Scan
NHD Streams
Counties 100K
States 100K
South America
North America

Scale: 1:12,201

Map center: 41° 24' 51" N, 72° 17' 4" W

(This page intentionally left blank.)

Reserved for
Exhibit # 6

THE OTTERY GROUP

January 7, 2009

Bernie Gigliotti
Lyme Zoning Department
480 Hamburg Road
Lyme, CT 06371

Re: Invitation to participate as a consulting party to the Section 106 review of the proposed AT&T Mobility "Lyme- Beaver Brook Road Telecommunications Facility" – 322 Beaver Brook Road, Lyme, CT 06371 (New London County)

Dear Mr. Gigliotti:

Prior to the construction of a telecommunications facility by AT&T at 322 Beaver Brook Road, Lyme, CT, the Ottery Group has submitted documentation to the Connecticut Department of Culture and Tourism, History Division (SHPO) regarding the effect of the proposed undertaking on historic properties. As tower construction is regulated by the FCC, AT&T is required to consider the effects of planned undertakings on cultural resources for compliance with the National Environmental Policy Act (NEPA) as well as Section 106 of the National Historic Preservation Act. Pursuant to Section 106 requirements, this notification is being made to invite potentially interested parties that may desire to participate in the consultation process.

The proposed undertaking consists of the construction of a telecommunications facility at the southwest edge of the existing parking lot at the above-referenced location. The proposed facility will consist of a 180-foot monopole, along with a 12 x 20 equipment shelter contained within a 75 x 75-foot fenced compound.

If you have any questions, concerns, or comments regarding the proposed undertaking, please contact our office within 30 days of receipt of this notification. The project review staff at the Connecticut Department of Culture and Tourism, History Division will have all documentation regarding this undertaking on file; however, I will be glad to furnish you with an electronic copy if requested. I look forward to your comments regarding the effects of the proposed undertaking.

If you have any questions or require more information please feel free to contact me by phone (301.562.1975) or email (stacy.patterson@otterygroup.com). I appreciate your assistance with this project.

Sincerely,
THE OTTERY GROUP, INC.

Stacy C Patt

Stacy C. Patterson
Architectural Historian

1810 AUGUST DRIVE · SILVER SPRING, MARYLAND 20902 · 301.562.1975 (MAIN) · 301.562.1976 (FAX)
www.otterygroup.com

OFFICE OF
ZONING ENFORCEMENT
OFFICER
434-8092

BUILDING AND ZONING
DEPARTMENT

TOWN OF LYME 1665 CONNECTICUT

LYME TOWN HALL
480 HAMBURG ROAD
LYME, CT 06371
(860) 434-7733

January 20, 2009

Stacy C. Patterson
The Ottery Group
1810 August Drive
Silver Springs, MD 20902

Re: Invitation to participate as a consulting party to the Section 106 review of the Proposed AT&T Mobility "Lyme- Beaver Brook Road Telecommunications Facility" 322 Beaver Brook Road, Lyme, CT 06371

Dear Ms. Patterson:

Thank you for your letter informing me of the proposed cell tower on Beaver Brook Road. I was unaware of any such proposal and am defiantly interested in being a consulting party to any of the permitting process.

I would also like to receive an electronic copy of any of the supporting documentation. You can e-mail the information to zoning@townlyme.org.

Sincerely,

Bernie Gigliotti
Zoning Enforcement Officer

THE OTTERY GROUP

January 7, 2009

Lyme Historical Society
96 Lyme Street
Old Lyme, CT 06371

Re: Invitation to participate as a consulting party to the Section 106 review of the proposed AT&T Mobility "Lyme- Beaver Brook Road Telecommunications Facility" – 322 Beaver Brook Road, Lyme, CT 06371 (New London County)

Dear Sirs:

Prior to the construction of a telecommunications facility by AT&T at 322 Beaver Brook Road, Lyme, CT, the Ottery Group has submitted documentation to the Connecticut Department of Culture and Tourism, History Division (SHPO) regarding the effect of the proposed undertaking on historic properties. As tower construction is regulated by the FCC, AT&T is required to consider the effects of planned undertakings on cultural resources for compliance with the National Environmental Policy Act (NEPA) as well as Section 106 of the National Historic Preservation Act. Pursuant to Section 106 requirements, this notification is being made to invite potentially interested parties that may desire to participate in the consultation process.

The proposed undertaking consists of the construction of a telecommunications facility at the southwest edge of the existing parking lot at the above-referenced location. The proposed facility will consist of a 180-foot monopole, along with a 12 x 20 equipment shelter contained within a 75 x 75-foot fenced compound.

If you have any questions, concerns, or comments regarding the proposed undertaking, please contact our office within 30 days of receipt of this notification. The project review staff at the Connecticut Department of Culture and Tourism, History Division will have all documentation regarding this undertaking on file; however, I will be glad to furnish you with an electronic copy if requested. I look forward to your comments regarding the effects of the proposed undertaking.

If you have any questions or require more information please feel free to contact me by phone (301.562.1975) or email (stacy.patterson@otterygroup.com). I appreciate your assistance with this project.

Sincerely,
THE OTTERY GROUP, INC.

Stacy C Patt

Stacy C. Patterson
Architectural Historian

1810 AUGUST DRIVE · SILVER SPRING, MARYLAND 20902 · 301.562.1975 (MAIN) · 301.562.1976 (FAX)
www.otterygroup.com

CUDDY & FEDER LLP

445 Hamilton Avenue, 14th Floor
White Plains, New York 10601
Tel 914.761.1300 Fax 914.761.5372
www.cuddyfeder.com

February 27, 2009

VIA FEDERAL EXPRESS
First Selectman Ralph F. Eno, Jr.
Town of Lyme
480 Hamburg Rd
Lyme, CT 06371
Phone: (860) 434-7733

Re: AT&T
Proposed Wireless Telecommunications Tower Facility
482 Grassy Hill Road or 27 Gungy Hill Road/322 Beaver Brook Road
Lyme, Connecticut

Dear First Selectman Eno:

We are writing to you on behalf of our client, New Cingular Wireless PCS, LLC ("AT&T") with respect to the above captioned matter involving a proposed wireless telecommunications tower facility to be located at either 482 Grassy Hill Road or at 27 Gungy Hill Road accessed via 322 Beaver Brook Road in the Town of Lyme. As you know, jurisdiction over such facilities rests exclusively with the State of Connecticut Siting Council pursuant to Section 16-50i and x of the Connecticut General Statutes.

Section 16-50l(e) of the Connecticut General Statutes does nevertheless require that AT&T consult with a municipality prior to such an application being filed with the Siting Council. The purpose of such local consultation is to give the municipality in which a facility has been proposed an opportunity to provide the applicant with any recommendations or preferences it may have prior to the applicant's filing of an application. As set forth in the statute, any such recommendations must be issued by the municipality within sixty days of its receipt of technical information concerning the proposed facility from the applicant.

The purpose of this letter is to formally notify you and other adjacent communities within 2500 feet of the proposed Facility in the Town of Lyme and commence the sixty day consultation period that is required prior to AT&T's filing of any application with the Siting Council. Enclosed is a "Technical Report" for your review and consideration which includes information about the need for the proposed tower facility, a summary of the site selection process and the environmental effects of a tower that has been proposed. The enclosed Technical Report also includes information provided by AT&T regarding its lack of service in this area of the State and how the proposed facility would integrate into its network. We trust that this information will prove helpful to you, others in Lyme and the adjacent Town of East Lyme in formulating any recommendations you may have about the proposal.

CUDDY & FEDER LLP

445 Hamilton Avenue, 14th Floor
White Plains, New York 10601
Tel 914.761.1300 Fax 914.761.5372
www.cuddyfeder.com

We would appreciate the opportunity to meet with you to review the Technical Report and will follow this letter with a call to schedule such a meeting to discuss the proposed facility at your convenience. Additionally, should Lyme elect to conduct a public meeting about the proposal during the consultation period, we would ask that you let us know at your earliest convenience so that we may have representatives available to discuss the project.

Thank you for your consideration of this letter and its enclosures. We look forward to meeting with you.

Very truly yours,

Christopher B. Fisher

Enclosure

cc w/ enclosures:

Paul Formica, First Selectman, Town of East Lyme
Bernie Gigliotti, Town of Lyme Zoning Enforcement Officer
Michelle Briggs, AT&T
Kevin D. Dey, SAI Communications
Daniel M. Laub, Esq.

CUDDY& FEDER LLP

445 Hamilton Avenue, 14th Floor
White Plains, New York 10601
Tel 914.761.1300 Fax 914.761.5372
www.cuddyfeder.com

April 3, 2009

VIA FEDEX
Mr. Bernie Gigliotti
Zoning Enforcement Officer
Town of Lyme
Lyme Town Hall
480 Hamburg Rd
Lyme, CT 06371
(860) 434-7733

Re: AT&T
Proposed Wireless Telecommunications Tower Facility
482 Grassy Hill Road or 27 Gungy Hill Road/322 Beaver Brook Road
Lyme, Connecticut

Dear Mr. Gigliotti:

As per our recent conversations, I understand that the captioned matter is placed on the upcoming April 13, 2009 Planning and Zoning Commission agenda for discussion. I and another representative of AT&T will be in attendance to provide an overview of the site and answer any questions the Planning and Zoning Commission may have. To further assist in the Commission's review, please find enclosed eight (8) copies of the Technical Report prepared by our office in support of the captioned matter and submitted to you and First Selectman Eno by letter dated February 27, 2009.

We look forward to discussing this matter further with the Planning and Zoning Commission. In the interim, should you have any questions regarding this information, please do not hesitate to contact me.

Very truly yours,

Daniel M. Laub

Enclosures

cc w/o enclosures: Philip First Selectman Ralph F. Eno, Jr., Town of Lyme; Michelle Briggs, AT&T; David Vivian, SAI Communications; Christopher B. Fisher, Esq.

7566 TOWN OF LYME THE LYME PLANNING A

7566 Town of Lyme The Lyme Planning and Zoning will hold a Public Information Hearing on the second Monday, April 13, 2009 at 7:30 p.m. at the Lyme Town Hall, 480 Hamburg Road, Lyme, CT 06371. Representatives of AT&T will be presenting a proposal for and accepting comment on locating a telecommunications tower at one of two potential sites. The two proposed sites are: 1. The property of Ruth E. Young, 27 Gungy Rd, Tax Map 53, Lot 5. 2. The property of Edward Firgelewski, 482 Gungy Rd, Tax Map 52, Lot 2. The proposal is on file with the office of the Town Clerk, Lyme Town Hall, 480Hamburg Road, Lyme, CT; for those wishing to review the proposal before the meeting. David Tiffany Chairman, Patsy Turner Secretary Lyme Planning & Zoning Commission

Appeared in: ***The Day*** on Friday, 04/03/2009

Back

PLANNING AND ZONING
COMMISSION

LYME TOWN HALL
480 HAMBURG ROAD
LYME, CT 06371
(860) 434-7733

LYME PLANNING & ZONING COMMISSION
REGULAR MEETING
April 13,, 2009
7:30 P.M.
Regular Meeting on the second Monday, April 13, 2009,
at 7:30 p.m. at the Lyme Town Hall, 480 Hamburg Road, Lyme, CT 06371

REGULAR MEETING

1. **CALL TO ORDER**
2. **REGULAR MEETING**
   1. An informational public meeting concerning the construction by AT&T of a telecommunications tower on one of two properties. The primary site is on the property of Ruth Young , 27 Gungy Road, Tax Map 53, Lot 5 and the alternate site is on the property of Edward Firgelewski, 482 Gungy Road, Tax Map 52, Lot 2.
3. **OLD BUSINESS**
   1. Update on the Platner lawsuit.
4. **NEW BUSINESS**
5. **APPROVAL OF OUTSTANDING MINUTES** of the March 9, 2009 regular meeting.
6. **ADJOURNMENT**

The Commission reserves the right to defer decision on any application to within the sixty-five (65) day statutory period.

David Tiffany, Chairman
Lyme Planning & Zoning Commission

Review packages can be picked up at the Town Hall.

Cc.
Daniel M. Laub, Esq.
Cuddy and Feder, LLP

OFFICE OF
ZONING ENFORCEMENT
OFFICER
434-8092

BUILDING AND ZONING
DEPARTMENT

LYME TOWN HALL
480 HAMBURG ROAD
LYME, CT 06371
(860) 434-7733

April 14, 2009

State of Connecticut
Connecticut Siting Council
10 Franklin Square
New Britain, CT. 06051

RE: AT&T Proposed Cellular Tower Facility in Lyme, Connecticut

Dear Chairman Caruso:

I am writing on behalf of the Lyme Planning and Zoning Commission regarding a proposal by AT&T for the construction of a cellular tower facility in the Town of Lyme.

On April 13, 2009 the Lyme Planning and Zoning Commission held a public information meeting at which time representatives of AT&T presented their proposal for construction of the facility at one of two potential sites. Site A, as defined in the AT&T Technical Report is at 482 Grassy Hill Road on the property owned by Edward L. Firgelewski. Site B is at 322 Beaver Brook Road on the property of Ruth E. Young.

After consideration of the material presented at the meeting, solicitation of comments from the general public and review of the Technical Report, the Lyme Planning and Zoning Commission is prepared to support and endorse the Site B location for the facility as it feels the overall negative impact to the community both environmentally and esthetically will be minimal. Conversely, the Commission would like to voice strong opposition to the Site A location for both esthetic and environmental concerns. The Commission would like to point out that a portion of the Site A facility and the proposed assess road presented at the meeting falls within the protected zone of a recently enacted Eightmile River Watershed Overly District regulation and is therefore problematic.

If you require any additional information or would like more detail on the Commissions position, please feel free to call.

Very truly yours,

Bernard A. Gigliotti

Bernard A. Gigliotti
Zoning Enforcement Officer

cc: Kenneth McKeever, Esq.
Ralph Eno
Daniel M. Laub, Esq.

(This page intentionally left blank.)

Reserved for
Exhibit # 7

THE OTTERY GROUP

January 7, 2009

Susan Chandler
Historical Architect
Connecticut Commission on Culture & Tourism
Historic Preservation and Museum Division
One Constitution Plaza, 2nd Floor
Hartford, Connecticut 06103

Re: Section 106 review for the proposed AT&T Mobility "Lyme- Beaver Brook Road Telecommunications Facility" – 322 Beaver Brook Road, Lyme, CT 06371 (New London County)

Ms. Chandler:

At the request of AT&T Mobility, The Ottery Group, Inc. is hereby initiating consultation with your office prior to the construction of the Southington-Queen Street Telecommunications Facility in Lyme, CT. As a licensee of the Federal Communications Commission (FCC), AT&T is required to consider the effects of the proposed undertaking on historic properties under FCC requirements (47 CFR 1.1307) and Section 106 of the National Historic Preservation Act (36 CFR 800) as implemented by the Programmatic Agreements governing project review for telecommunications projects.

The following attachment regarding the proposed undertaking is provided in order to initiate consultation pursuant to 36 CFR 800.3. The report includes an identification of historic properties that are listed in or have been determined eligible for the National Register of Historic Places (NRHP) and an assessment of the effects of the planned undertaking.

I look forward to your comments regarding the effects of the proposed undertaking. If you have any questions or require more information please feel free to contact me by phone or email (lyle.torp@otterygroup.com). I appreciate your assistance with this project.

Sincerely,
THE OTTERY GROUP, INC.

Lyle C. Torp
Managing Director

Attachment – FCC Form 620, Parts 1 and 2

1810 AUGUST DRIVE · SILVER SPRING, MARYLAND 20902 · 301.562.1975 (MAIN) · 301.562.1976 (FAX)
www.otterygroup.com

Connecticut Commission on Culture & Tourism

Historic Preservation
and Museum Division

One Constitution Plaza
Second Floor
Hartford, Connecticut
06103

860 256 2800
860 256 2811 (f)

January 13, 2009

Mr. Lyle C. Torp
The Ottery Group
1810 August Drive
Silver Spring, MD 20902

Subject: AT&T Mobility Telecommunications Facilities
322 Beaver Brook Road
Lyme, CT

Dear Mr. Torp:

The State Historic Preservation Office has reviewed the above-named project. This office notes that The Ottery Group's archaeological assessment neither identifies nor discusses five Native American archaeological sites, located around Cedar Lake, which is situated in immediate proximity to the proposed telecommunications facilities. We believe that the project area possesses moderate to high sensitivity for prehistoric archaeological resources and that additional archaeological investigations are warranted in order to identify and evaluate archaeological resources which may exist within proposed project limits, including access road improvements, equipment storage and associated work areas. All archaeological studies must be undertaken in accordance with our *Environmental Review Primer for Connecticut's Archaeological Resources.*

No ground disturbance or construction-related activities should be initiated until this office has had an opportunity to review and comment upon the recommended archaeological survey report.

We anticipate working with all interested parties in the expeditious furtherance of the proposed undertaking as well as in the professional management of Connecticut's archaeological heritage.

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

Sincerely,

David Bahlman
Deputy State Historic Preservation Officer

cc: Dr. Nicholas Bellantoni/OSA
Dr. Jeffrey Bendremer/MT

THE OTTERY GROUP

January 7, 2009

Bruce Bozsum, Chairperson
Mohegan Tribal Council
5 Crow Hill
Uncasville, CT 06382

Re: Invitation to participate as a consulting party to the Section 106 review of the proposed AT&T Mobility "Lyme- Beaver Brook Road Telecommunications Facility" – 322 Beaver Brook Road, Lyme, CT 06371 (New London County)

Dear Mr. Bozsum:

Prior to the construction of a telecommunications facility by AT&T at 322 Beaver Brook Road, Lyme, CT, the Ottery Group has submitted documentation to the Connecticut Department of Culture and Tourism, History Division (SHPO) regarding the effect of the proposed undertaking on historic properties. As tower construction is regulated by the FCC, AT&T is required to consider the effects of planned undertakings on cultural resources for compliance with the National Environmental Policy Act (NEPA) as well as Section 106 of the National Historic Preservation Act. Pursuant to Section 106 requirements, this notification is being made to invite potentially interested parties that may desire to participate in the consultation process.

The proposed undertaking consists of the construction of a telecommunications facility at the southwest edge of the existing parking lot at the above-referenced location. The proposed facility will consist of a 180-foot monopole, along with a 12 x 20 equipment shelter contained within a 75 x 75-foot fenced compound.

If you have any questions, concerns, or comments regarding the proposed undertaking, please contact our office within 30 days of receipt of this notification. The project review staff at the Connecticut Department of Culture and Tourism, History Division will have all documentation regarding this undertaking on file; however, I will be glad to furnish you with an electronic copy if requested. I look forward to your comments regarding the effects of the proposed undertaking.

If you have any questions or require more information please feel free to contact me by phone (301.562.1975) or email (stacy.patterson@otterygroup.com). I appreciate your assistance with this project.

Sincerely,
THE OTTERY GROUP, INC.

Stacy C Patt

Stacy C. Patterson
Architectural Historian

1810 AUGUST DRIVE · SILVER SPRING, MARYLAND 20902 · 301.562.1975 (MAIN) · 301.562.1976 (FAX)
www.otterygroup.com

THE OTTERY GROUP

January 7, 2009

Michael J. Thomas, Chairperson
Mashantucket Pequot Tribe
4 Matt's Path
Mashantucket, CT 06338

Re: Invitation to participate as a consulting party to the Section 106 review of the proposed AT&T Mobility "Lyme- Beaver Brook Road Telecommunications Facility" – 322 Beaver Brook Road, Lyme, CT 06371 (New London County)

Dear Mr. Thomas:

Prior to the construction of a telecommunications facility by AT&T at 322 Beaver Brook Road, Lyme, CT, the Ottery Group has submitted documentation to the Connecticut Department of Culture and Tourism, History Division (SHPO) regarding the effect of the proposed undertaking on historic properties. As tower construction is regulated by the FCC, AT&T is required to consider the effects of planned undertakings on cultural resources for compliance with the National Environmental Policy Act (NEPA) as well as Section 106 of the National Historic Preservation Act. Pursuant to Section 106 requirements, this notification is being made to invite potentially interested parties that may desire to participate in the consultation process.

The proposed undertaking consists of the construction of a telecommunications facility at the southwest edge of the existing parking lot at the above-referenced location. The proposed facility will consist of a 180-foot monopole, along with a 12 x 20 equipment shelter contained within a 75 x 75-foot fenced compound.

If you have any questions, concerns, or comments regarding the proposed undertaking, please contact our office within 30 days of receipt of this notification. The project review staff at the Connecticut Department of Culture and Tourism, History Division will have all documentation regarding this undertaking on file; however, I will be glad to furnish you with an electronic copy if requested. I look forward to your comments regarding the effects of the proposed undertaking.

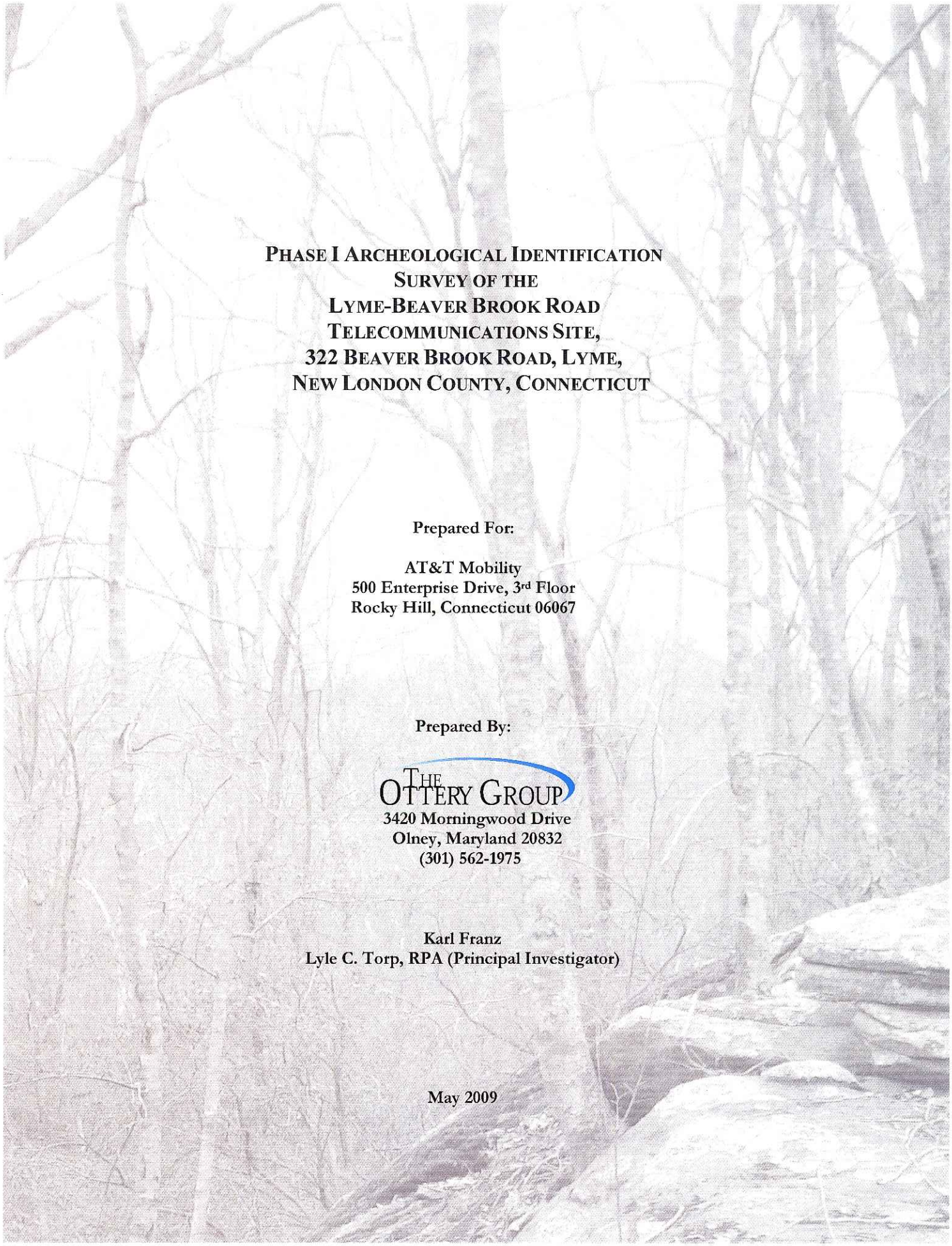
If you have any questions or require more information please feel free to contact me by phone (301.562.1975) or email (stacy.patterson@otterygroup.com). I appreciate your assistance with this project.

Sincerely,
THE OTTERY GROUP, INC.

Stacy C Patt

Stacy C. Patterson
Architectural Historian

1810 AUGUST DRIVE • SILVER SPRING, MARYLAND 20902 • 301.562.1975 (MAIN) • 301.562.1976 (FAX)
www.otterygroup.com



PHASE I ARCHEOLOGICAL IDENTIFICATION SURVEY OF THE LYME-BEAVER BROOK ROAD TELECOMMUNICATIONS SITE, 322 BEAVER BROOK ROAD, LYME, NEW LONDON COUNTY, CONNECTICUT

Prepared For:

AT&T Mobility
500 Enterprise Drive, 3rd Floor
Rocky Hill, Connecticut 06067

Prepared By:

THE OTTERY GROUP
3420 Morningwood Drive
Olney, Maryland 20832
(301) 562-1975

Karl Franz
Lyle C. Torp, RPA (Principal Investigator)

May 2009

Executive Summary

This report presents the findings of a Phase I archeological identification survey of the Lyme-Beaver Brook Road Telecommunications Site in Lyme, New London County, Connecticut. AT&T Mobility plans to construct a telecommunications facility at the proposed site location. The area of impact for the proposed undertaking consists of the clearing and grading of an approximately 100-foot by 100-foot lease area on which a telecommunications facility will be constructed. The undertaking consists of the construction of a 180-foot monopole and equipment shelters within a proposed 75-foot by 75-foot fenced compound, as well as areas of ground disturbance related to trenching for utility connections and a 12-foot wide crushed stone access driveway connecting the facility to Beaver Brook Road.

A Phase Ia Archeological Assessment of the telecommunications site was conducted in December, 2008, and a recommendation of no additional testing was presented. The Connecticut State Historic Preservation Office (SHPO) conducted a review of the proposed undertaking under Section 106 of the National Historic Preservation Act, as amended, as an undertaking under the jurisdiction of the Federal Communications Commission (FCC), which licenses and regulates wireless telecommunications service providers. The SHPO concluded, in a letter dated January 13, 2009 that the proposed project area possesses a moderate to high sensitivity for prehistoric archeological resources due to its proximity to the Cedar Lake, where several previously identified prehistoric sites are located. It was their recommendation that a Phase I archeological survey be undertaken to identify and evaluate unrecorded archeological resources within the project area. The Ottery Group Inc., on behalf of AT&T Mobility, completed the current archeological survey in order to fulfill the requirements of the SHPO.

The research design for this Phase I archeological identification survey included background research and field survey. Background research consisted of a review of archeological site files at the Office of State Archeology (OSA) and a review of archeological survey reports and historic inventory surveys at the State Historic Preservation Office (SHPO) collections at the Dodd Research Center at the University of Connecticut. Field survey consisted of a visual inspection of the project area and surrounding properties and the excavation of nine systematically excavated shovel test pits (STPs) within the proposed lease area and an additional three judgmentally placed STPs along the existing path/access road.

No artifacts were recovered during visual inspection or subsurface testing and no archeological sites were recorded. One rock overhang that was observed outside of the limits of the project area was photographed but was not tested archeologically. This investigation determined that the proposed construction of this telecommunications facility would not impact unrecorded prehistoric and historic archeological resources. Based on the results of this archeological survey, no additional archeological investigations are recommended.

Table of Contents

List of Figures

Appendices

1.0 Introduction

This report presents the findings of a Phase I archeological identification survey of the Lyme-Beaver Brook Road Telecommunications Site in Lisbon, New London County, Connecticut. AT&T Mobility plans to construct a telecommunications facility at the proposed site location. The area of impact for the proposed undertaking consists of the clearing and grading of an approximately 100-foot by 100-foot lease area on which a telecommunications facility will be constructed. The undertaking consists of the construction of a 180-foot monopole and equipment shelters within a proposed 75-foot by 75-foot fenced compound, as well as areas of ground disturbance related to trenching for utility connections and a 12-foot wide crushed stone access driveway connecting the facility with Beaver Brook Road.

The Connecticut State Historic Preservation Office (SHPO) conducted a review of the proposed undertaking under Section 106 of the National Historic Preservation Act, as amended, as an undertaking under the jurisdiction of the Federal Communications Commission (FCC), which licenses and regulates wireless telecommunications service providers. The SHPO concluded, in a letter dated January 13, 2009 that the proposed project area possesses a moderate to high sensitivity for prehistoric resources. It was their recommendation that a Phase I archeological survey be undertaken to identify and evaluate unrecorded archeological resources within the project area. The Ottery Group, Inc., on behalf of AT&T Mobility, completed the current archeological survey in order to fulfill the requirements of the SHPO.

The methods for completing this archeological survey follow the recommended approach for Phase I survey outlined in the *Environmental Review Primer for Connecticut's Archaeological Resources* (Poirier, 1987). The research design for this Phase I archeological identification survey included background research and field survey. Background research consisted of a review of archeological site files at the Office of State Archeology (OSA) and a review of archeological survey reports and historic inventory surveys at the State Historic Preservation Office (SHPO) collections at the Dodd Research Center at the University of Connecticut. Field survey consisted of a visual inspection of the project area and surrounding properties and the excavation of nine systematically excavated shovel test pits (STPs) within the proposed lease area and an additional three judgmentally placed STPs along the existing path/access road. Lyle Torp, RPA served as Principal Investigator for the project. Karl Franz conducted the research and fieldwork and prepared the report.

The following chapters discuss the environmental and cultural conditions and backgrounds of New London County. The report also details the field and laboratory methods as well as the results of the archaeological survey. The last chapter summarizes the survey work performed and provides a conclusion on the identified cultural resources and future research potential within the Lyme-Beaver Brook Road Telecommunications Site. Appendices to the report contain qualifications of the investigators, photographs of the project area, correspondence with the SHPO, and site plans for the project.

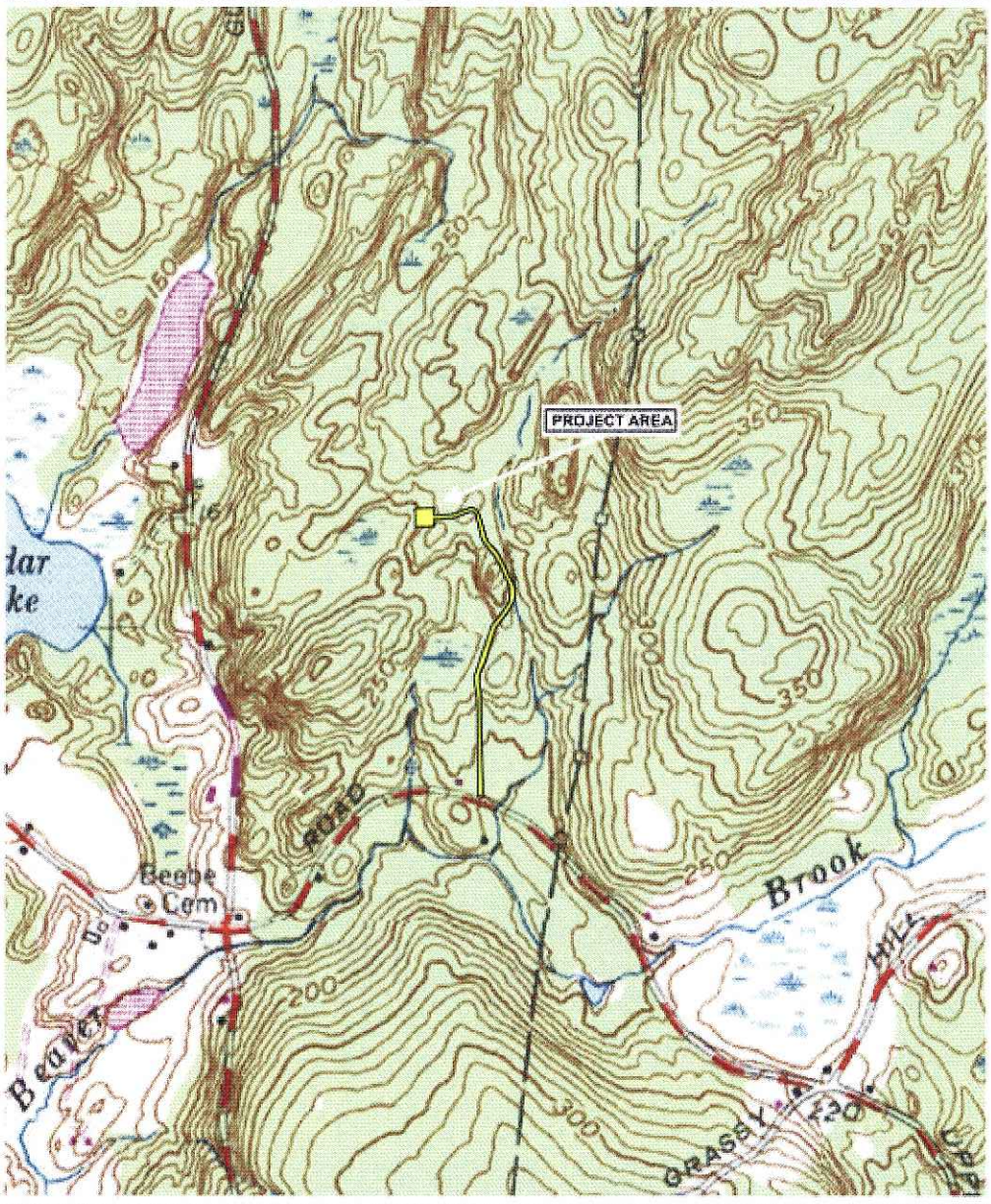
2.0 Project Area Location and Description

The site of the proposed Lyme-Beaver Brook Road Telecommunications Facility is located in the town of Lyme 2.7 miles east of the community of North Lyme in New London County, Connecticut on the USGS Hamburg quadrangle (Figure 2.1). This project area consists of an approximately 100-foot by 100-foot area of impact within an undeveloped, wooded parcel at 322 Beaver Brook Road. The project area is located in an upland area consisting of undulating steep-sided hills and boulder filled wetland areas.

The project area is situated on an upland hilltop. The topography at the site of the proposed compound begins at the base of a hillslope and rises approximately 15 feet to the top of the hill. The path of the proposed access road follows a gentle rise and fall past a wetland before connecting with Beaver Brook Road. Vegetation within the project area consists of a mix of oak and hickory with mountain laurel undergrowth. The project area is situated within the Connecticut Watershed approximately 2/3 mile (3,550 feet) from Cedar Lake. The nearest water source is a wetland feeder of Beaver Brook which lies 400 feet to the southwest of the project area.

The elevation of the project area is approximately 120 feet above mean sea level (AMSL) at the compound location and approximately 105 feet AMSL where the access road joins River Road. Soils within the project area are classified as Charlton-Chatfield complex 3-15% slopes, very rocky (73C) and Ridgebury, Leicester, and Whitman soils, extremely stony (3) (Natural Resources Conservation Service, 2009). Charlton-Chatfield complex soils are classified as well drained, coarse-loamy melt-out till derived from granite and/or gneiss and/or schist. Ridgebury, Leicester, and Whitman soils are poorly drained wetland soils consisting of coarse-loamy lodgement till derived from granite and/or gneiss and/or schist.

This project area consists of undeveloped woods (Figure 2.2). Timber cover consists of mature hardwoods and mountain laurel bushes. A dirt trail following the path of the access road comes within 200 feet of the project area. The access road is approximately 1,500 feet long.



THE OTTERY GROUP
3420 Morningwood Drive
Olney, MD 20832
phone (301) 562-1975
fax (301) 562-1976

Figure 2.1:

Location of the Project Area
on the USGS Hamburg, CT Quadrangle

3.0 Environmental Setting and Historical Background

3.1 Environmental Setting

Connecticut is located in the Appalachian Highlands. The Appalachian Highlands were formed 480 millions year ago and consist of elongated belts of folded and thrust faulted marine sedimentary rocks, volcanic rocks and slivers of ancient ocean floor. All of Connecticut lies in the New England physiographic province. The New England physiographic province is divided into five distinct geomorphic sections: Seaboard Lowland, New England Upland, White Mountain, Green Mountain and Taconic. The project area lies within the New England Uplands section as does most of New London County. The whole of the New England Uplands section was greatly modified by glaciation and consists of maturely dissected plateau with narrow valleys.

The project area is characterized by upland hilltop with a relatively flat topography and shallow stratigraphy. Underlying the survey area is bedrock from the Iapetos terrane, which is the remnant of the Iapetos Ocean. The Iapetos terrane consists of Middle to Early Paleozoic (350-500 million years ago) age metamorphosed sedimentary and igneous rocks. The bedrock under the project area consists of interlayered thinly bedded quartzite, mica schist, and dark gray gneiss of the Plainfield Formation (Figure 3.1). The Charlton-Chatfield complex soils in this area are formed in loamy glacial till derived from underlying gneiss and schist and the depth of the bedrock is 25-50cm.

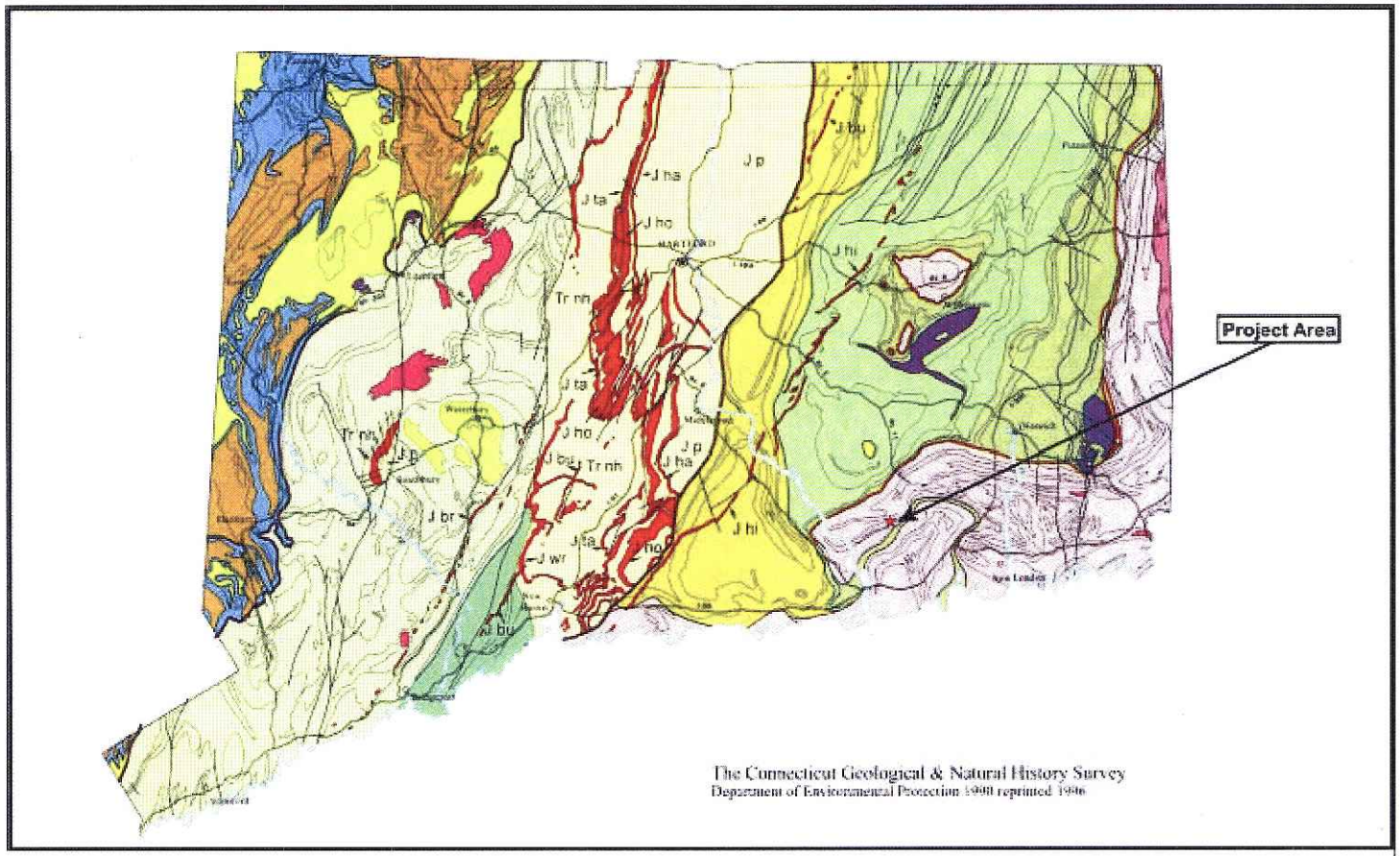
Vegetation within the project area consists of a mix of oak and hickory. The understory is primarily mountain laurel. With the exception of the access road/existing path, the landscape appears to have been little altered and has likely been historically used as a wood lot.

3.2 Prehistoric Cultural Sequence

The prehistory of Connecticut is usually described in terms of four major chronological periods: Paleo-Indian, Archaic, Woodland and Contact. Originally developed as cultural historical units primarily intended to treat temporal and spatial questions, these traditions are defined by diagnostic artifact forms and assemblages. In more recent years, this scheme has been modified to emphasize cultural adaptations to changing ecological conditions. While the various terms continue to be used, their use is now as much behavioral as classificatory.

3.2.1 Paleo-Indian Period (12,000-9,000 B.P.)

The Paleo-Indian period (ca. 12,000-9,000 B.P.) represents the first occupation of Connecticut. Paleo-Indian populations were mobile, frequently changing location throughout the year within a territory in order to utilize available resources. In Connecticut the earliest definitive evidence of Paleo-Indian occupation are fluted projectile points. The largest is the Allen's Meadows site where two fluted points, several endscrapers, numerous biface fragments and pieces of lithic debitage were recovered (Wiegand and Brown 2002). The majority of this assemblage was manufactured from high quality quartz. In New Haven County, no Paleo-Indian sites have been discovered.



THE OTTERY GROUP
3420 Morningwood Drive
Olney, MD 20832
phone (301) 562-1975
fax (301) 562-1976

Figure 3.1:

Approximate Location of the Project Area on the
Generalized Bedrock Geologic Map of Connecticut

3.2.2 Archaic Period (9,000-2,700 B.P.)

The Archaic period (9,000-2,700 B.P.) in southern New England generally refers to pre-ceramic sites associated with nomadic hunter-gatherer populations that occupied the emerging Holocene deciduous forests. This was considered distinct from the Paleo-Indian period that was characterized by highly mobile hunters reliant on big game for their livelihood. Warmer and drier climatic conditions at the onset of the Holocene resulted in a more varied floral and faunal resource base, and in cultural adaptations during the Archaic period. Settlement patterns were seasonally oriented, and groups were still semi-nomadic, with a subsistence base focused on hunting and gathering. In the past the Archaic Period has been divided into three chronological sub-periods: Early Archaic, Middle Archaic and Late Archaic. Each of these sub-periods describes all non-ceramic and non-farming populations in the area. Most recently regional researchers recognize a fourth final sub-period in New England as the Terminal Archaic that represents a population just prior to the widespread adoption of ceramics in the Woodland period (Snow 1980, McBride 1984).

The Early Archaic sub-period (9,000-7,000 B.P.) is viewed as a continuation of the earlier Paleo-Indian lifeways, with an emphasis on the use of cryptocrystalline lithic materials for tool making. In New England, Early Archaic sites are defined by a series of ill-defined bifurcate-base projectile points made of high-quality raw material.

The Middle Archaic sub-period (7,000-5,000 B.P.) in New England is characterized by settlement pattern changes that include seasonally occupied base camps, as well as task-specific sites. Diagnostic projectile points for this period include Neville, Stark and Merrimac types.

The Late Archaic sub-period (5,000-3,400 B.P.) in New England is characterized by two cultural traditions: Laurentian and Narrow-Stemmed Point. In southern New England these cultural traditions coexisted. In this region, diagnostic projectile points of the Laurentian Tradition are Brewerton Ear-Notched, Brewton Eared, and Brewton Side-Notched types (McBride 1984). Laurentian Tradition stone tool production utilized flint, felsite, rhyolite and quartzite. On the other hand, the Narrow-Stemmed Point Tradition is known for narrow stemmed and side-notched points, as well as triangular points produced from quartz and quartzite.

The Terminal Archaic sub-period (3,400-2,700 B.P.) in southern New England is characterized by technological innovations such as Broadspear projectile points, steatite bowls and ocher-lined cremation burials. Although the Narrow Stemmed Tradition continued through to the Woodland period, it coexisted in western Connecticut with the Susquehanna Tradition. Diagnostic Broadspear projectile points such as Susquehanna, Snook Kill, Perikoman and Orient points define the Susquehanna Tradition (McBride 1984).

3.2.3 Woodland Period (2,700-350 B.P.)

The Woodland period is divided into three chronological sub-periods: Early Woodland (2,700-2,000 B.P.), Middle Woodland (2,000-1,200 B.P.), and Late Woodland (1,200-350 B.P.). The Woodland period was defined originally in the 1930s by the appearance of ceramics, maize agriculture, and sedentary villages. At the time, it was believed that ceramics, food production, and sedentary village life were mutually inclusive. Research over the last few decades, however, has revealed that the transition between the Archaic and Woodland were not as great as previously thought.

The Early Woodland sub-period (2,700-2,000 B.P.) represents a continuation of trends begun during the Middle and Late Archaic periods towards increased exploitation of local resources and decreased mobility. This sub-period in southern New England is defined by the appearance of Vinette I cord-

marked pottery is association with narrow stemmed projectile points. Diagnostic projectile points include Rossville, Adena and Meadowood types.

During the Middle Woodland sub-period (2,000-1,200 B.P.), villages grew in size and became more permanent. Ceramic types diversified during this sub-period. In southern Connecticut the chronology of this sub-period is based on the changing ceramic styles of the Windsor ceramic tradition (Lavin 1987).

The Late Woodland sub-period (1,200-350 B.P.) is characterized by sedentism and subsistence based on food production. Large, permanent villages were located on high defendable areas frequently with fortifications. In southern New England Sebonac type and Niantic type ceramics are predominant in Late Woodland assemblages (Lavin 1987). Triangular projectile points such as Levanna, Madison and Jack's Reef types are typical of this sub-period.

3.2.4 Contact Period (350-250 B.P.)

After contact with European settlers, the traditional lifeways of Native Americans were disrupted. In the 16th and 17th centuries European epidemic diseases brought by the first explorers devastated Native American populations. European disease and settlement rapidly led to the nearly complete elimination of Native American groups. Settlement and subsistence of historic Native Americans at the time of contact were most likely a continuation of patterns observed in the Late Woodland period.

3.3 Historic Background

3.3.1 Seventeenth Century (A.D. 1600-1700)

A southwest migration of English groups from Massachusetts Bay Colony brought about the establishment of the first three English colonies in Connecticut. The first of these colonies was Windsor, a trading post along the Connecticut River that was located on land bought from the Pequots in 1633. Soon after, the colonies of Wethersfield and Hartford were also established along the river. By 1636 the Pequot War had commenced in Connecticut after a series of killings and retaliations. By the end of the war in 1637 the Pequots had retreated west along the coast of the Long Island Sound where they were defeated at Great Swamp (DeForest 1964).

After the Pequot War, English settlement spread quickly through Connecticut. An estimated 20,000 English immigrants settled in Connecticut during the Great Migration between 1629 and 1642. These colonists brought with them the social order and economic system of post-Medieval England. Following this system between 1635 and 1675, the General Court would grant land to groups of proprietors, who would distribute the land to individuals according to social rank. Settlement generally extended along the coast and then expanded inland along major river drainages. The first English land claim in the vicinity of the project area occurred in 1659 when residents of the Saybrook Colony purchased land from the Mohegan tribe. Norwich was settled following the purchase. In 1680, the land between the Shetucket and Quinebaug Rivers were granted to Major Fitch.

The settlement of Lyme, on the Connecticut River estuary, dates to 1640. The township of Lyme was created in 1665, when Saybrook colonists split off from the colony to form a satellite settlement. At this time, the settlement consisted of approximately 30 families. Initially settlement was limited to the coastal areas but as the seventeenth century progressed, road construction opened the interior of the state.

3.3.2 Eighteenth Century (A.D. 1700-1800)

The continued population growth in the town of Lyme led to the establishment of separate religious diocese that would enable churchgoers to worship closer to their homes rather than travel long distances on roads of questionable quality. These religious divisions led to the town divisions of Old Lyme, Lyme, and East Lyme.

The primary economy of the Lyme area during the eighteenth century was maritime trade and the shipbuilding industry. The areas inland from the coast were slow to be settled, although the many falls and high activity streams in the uplands were exploited with grist and saw mills. Access to these mills was provided by the increasing roadway capacity. As with the population, road building was focused along the coastal regions and lagged behind in the upland. The 1792 Blodgett map shows that two mills were present south of Cedar Lake, but there are no roadways or industry noted in the immediate vicinity of the project area.

During the American Revolutionary War there was no significant activity in the vicinity of Lyme, although the merchant fleets did provide some assistance to the colonial navy.

3.3.3 Nineteenth Century (A.D. 1800-1900)

During the nineteenth century, the coastal areas of the town continued to prosper while the upland areas continued to grow slowly. As ships grew larger, additional deepwater port towns began to displace Lyme as shipbuilding centers. The upland areas provided timber for the coastal industries and continued its own milling industries on a small scale.

In the second quarter of the nineteenth century, the town of Lyme was divided into four towns: Salem, East Lyme, Lyme, and Old Lyme.

During the last quarter of the nineteenth century, a depopulation of the area occurred, following the decline of Connecticut as a maritime hub.

3.3.4 Twentieth Century to Present (A.D. 1900-present)

From the end of the nineteenth century to the present, the Connecticut economy has relied less and less on the textile industry. Following World War II, Connecticut experienced a boom in suburbanization. Population, which fell throughout the depression era, experienced a resurgence, particularly in the 1960s through 1980s.

3.3.5 Tract History

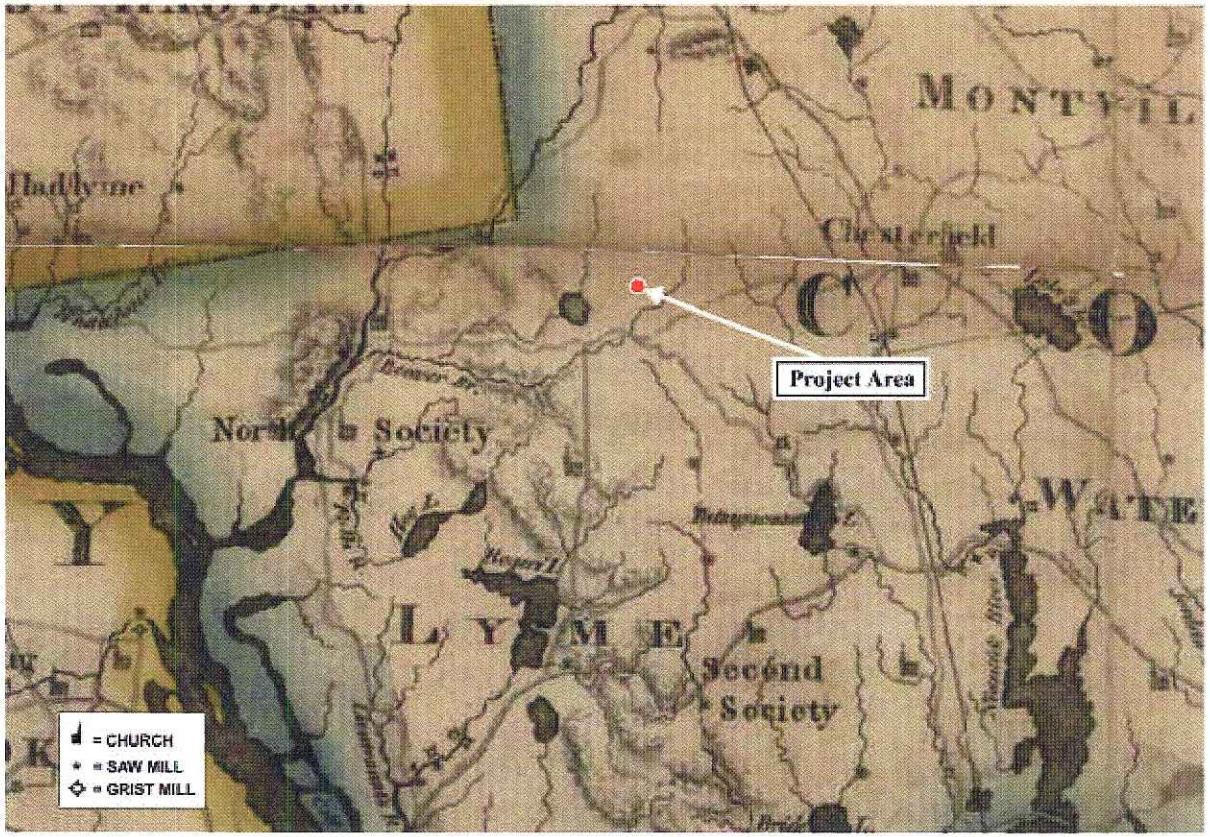
This project area consists of a 100-foot by 100-foot area of impact within an undeveloped, wooded parcel at 322 Beaver Brook Road. The earliest map clearly depicting the project area was made in 1792 (Figure 3.2). This shows some development in the vicinity of the project area and Cedar Lake but no roads or structures appear closer than 2.5 miles from the project area. One road on the map, between present Chesterfield and Black Hall, does not follow the course of any existing road and is likely misplotted. By 1811, more roadways have been added close to the project area, including Beaver Brook Road, which runs adjacent to the project area (Figure 3.3). By 1833, the roads in the vicinity of the project area had achieved their current layout (Figures 3.4 and 3.5). No individual landowners are depicted until 1854. Although no owners are present in the immediate vicinity of the project area, it is likely that the land was owned by D.R. Condot, J.M. Beebe, or R.W. Lee (Figure 3.6). A schoolhouse was situated approximately 1/8 mile to the west of the junction of the access

road and Beaver Brook Road. The same structures appear on the 1859 and 1868 maps (Figures 3.7 and 3.8). The 1892 map dos not show any additional structures (Figure 3.9).

The Ottery Group
3420 Morningwood Drive
Olney, MD 20832
phone (301) 562-1975
fax (301) 562-1976

Figure 3.2:

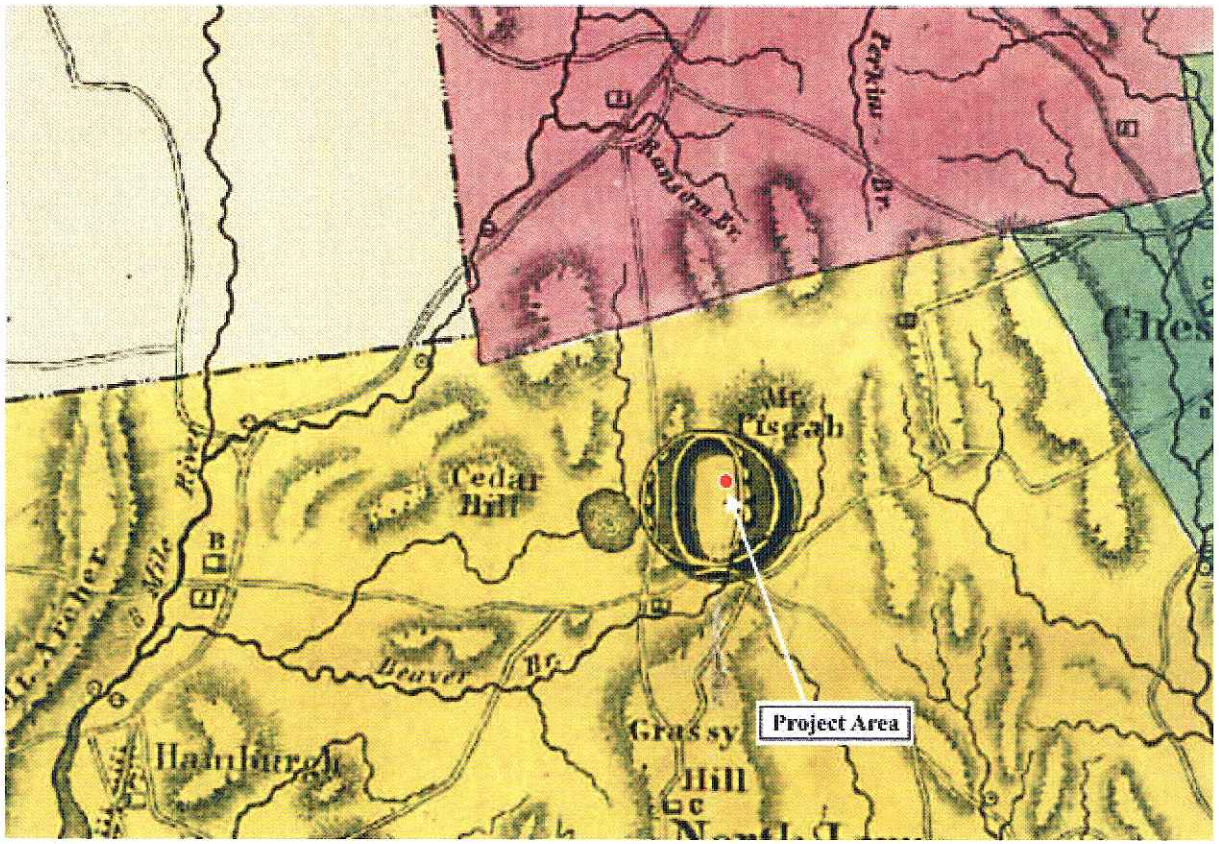
Approximate Location of the Project Area on the
1792 William Blodget *A New and Correct Map of Connecticut*



THE OTTERY GROUP
3420 Morningwood Drive
Olney, MD 20832
phone (301) 562-1975
fax (301) 562-1976

Figure 3.3:

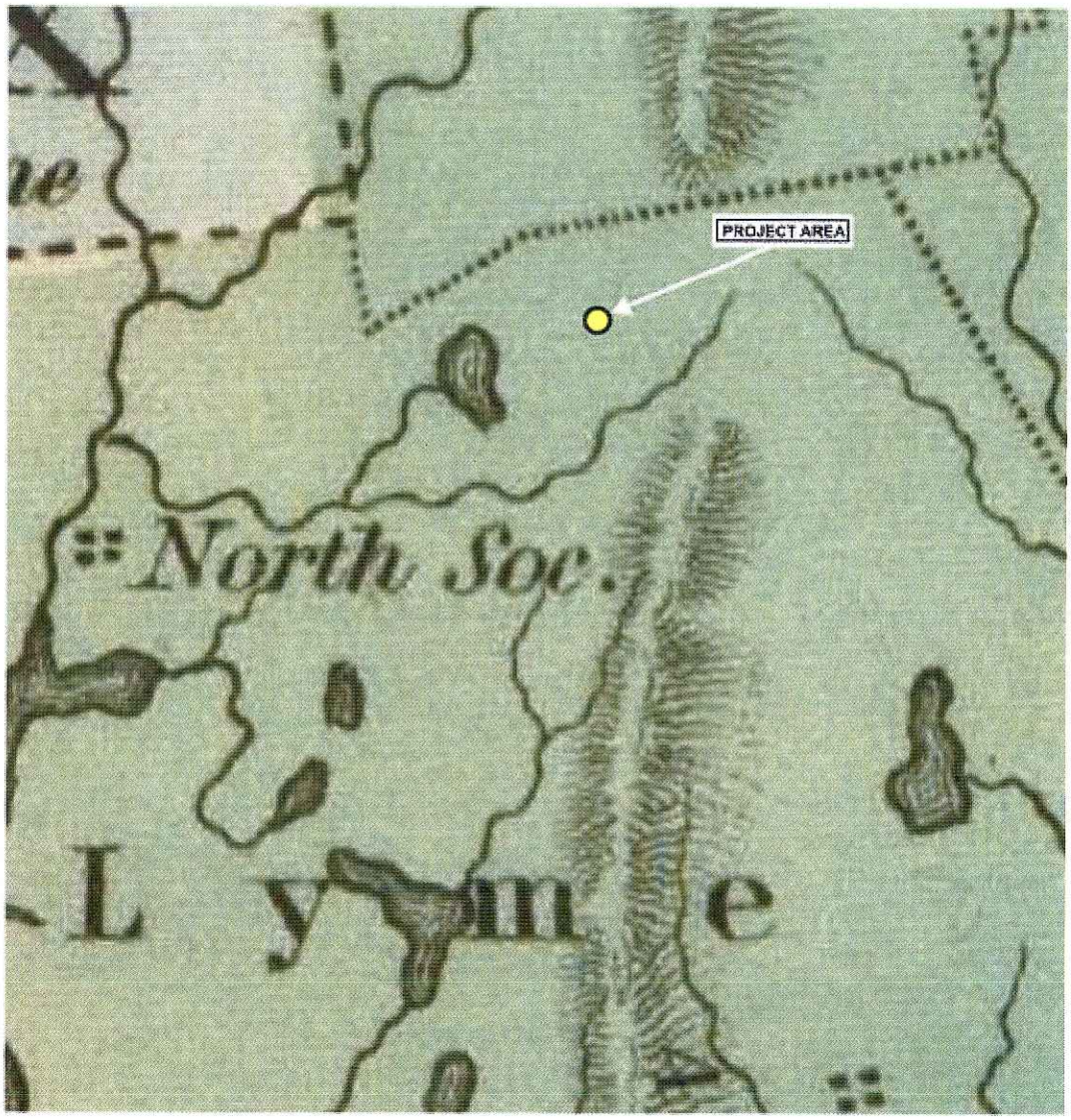
Approximate Location of the Project Area on the
1811 G. Gillet and M. Warren Map *Connecticut, From Actual Survey*



The Ottery Group
3420 Morningwood Drive
Olney, MD 20832
phone (301) 562-1975
fax (301) 562-1976

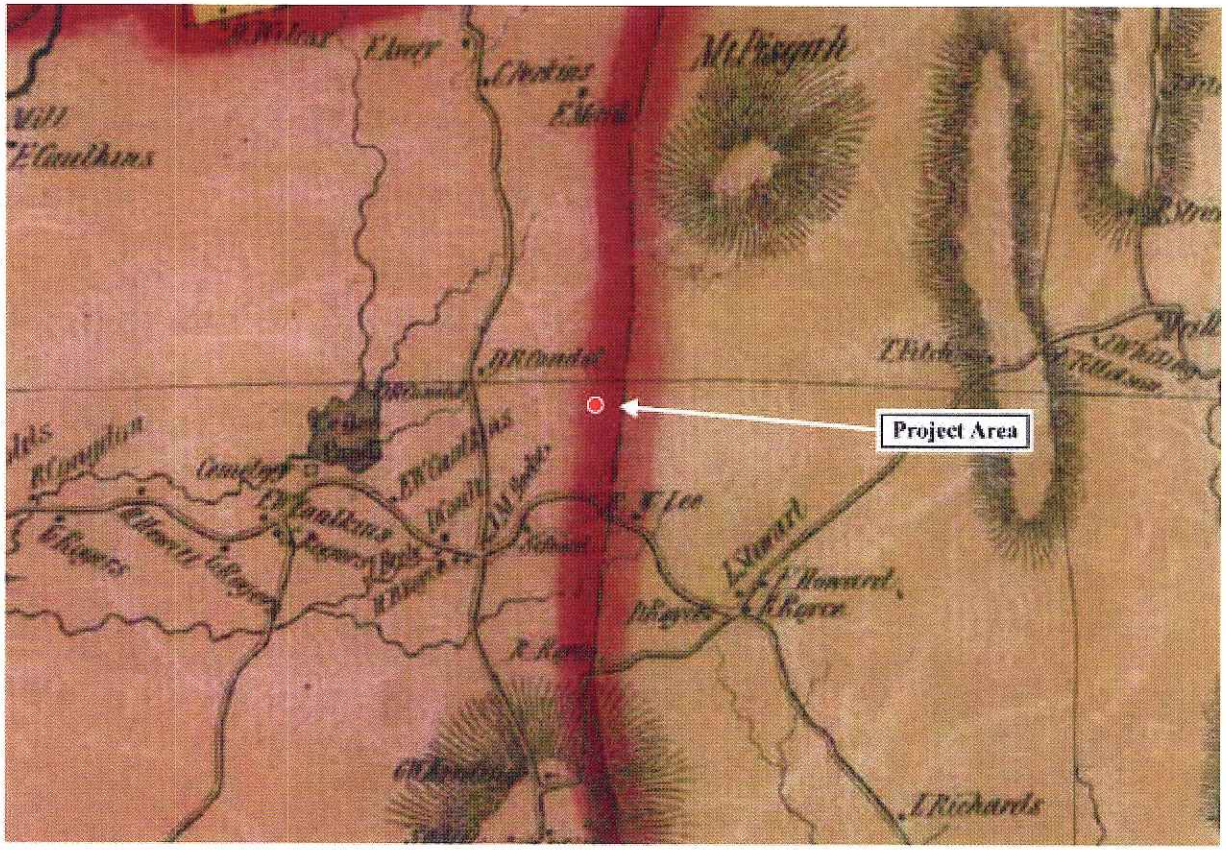
Figure 3.4:

Approximate Location of the Project Area on the 1833 William Lester Jr. *Map of New London and Windham Counties in Connecticut, From Actual Surveys*



THE OTTERY GROUP
3420 Morningwood Drive
Olney, MD 20832
phone (301) 562-1975
fax (301) 562-1976

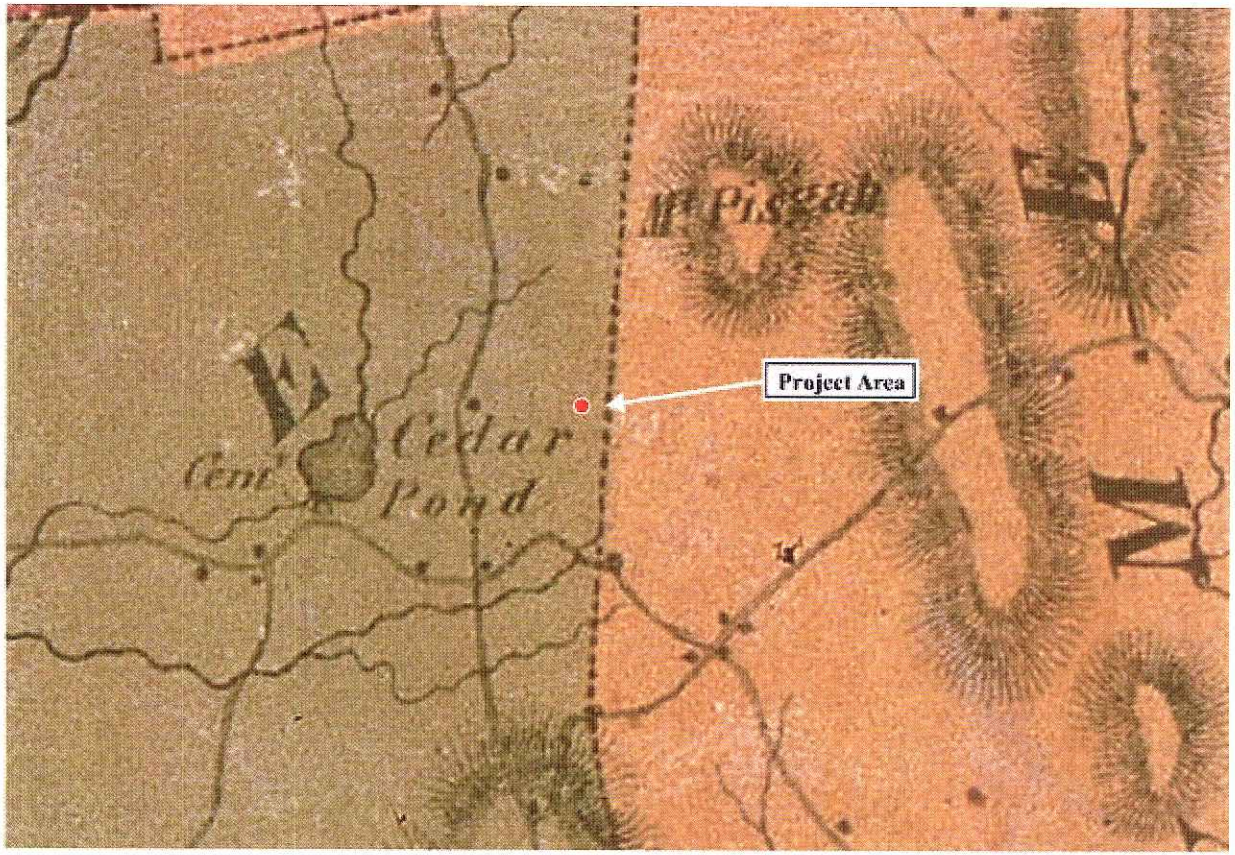
Figure 3.5:
Location of the Project Area on the 1838 Thomas G. Bradford *An Illustrated Atlas, Geographical, Statistical, and Historical of the United States*



THE OTTERY GROUP
3420 Morningwood Drive
Olney, MD 20832
phone (301) 562-1976
fax (301) 562-1976

Figure 3.6:

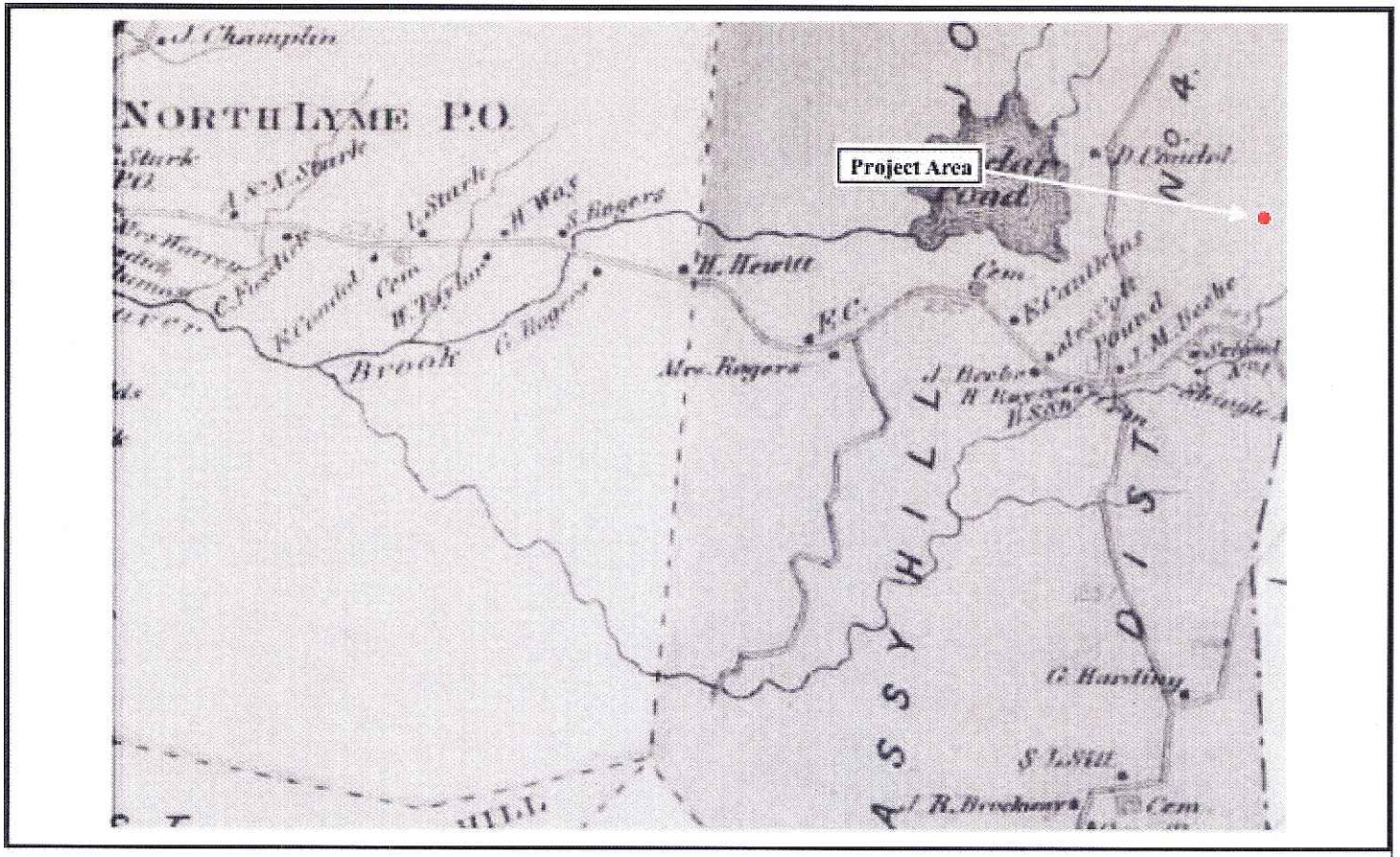
Approximate Location of the Project Area on the 1854 Walling and Baker *Map of New London County, Connecticut*



THE OTTERY GROUP
3420 Morningwood Drive
Olney, MD 20832
phone (301) 562-1975
fax (301) 562-1976

Figure 3.7:

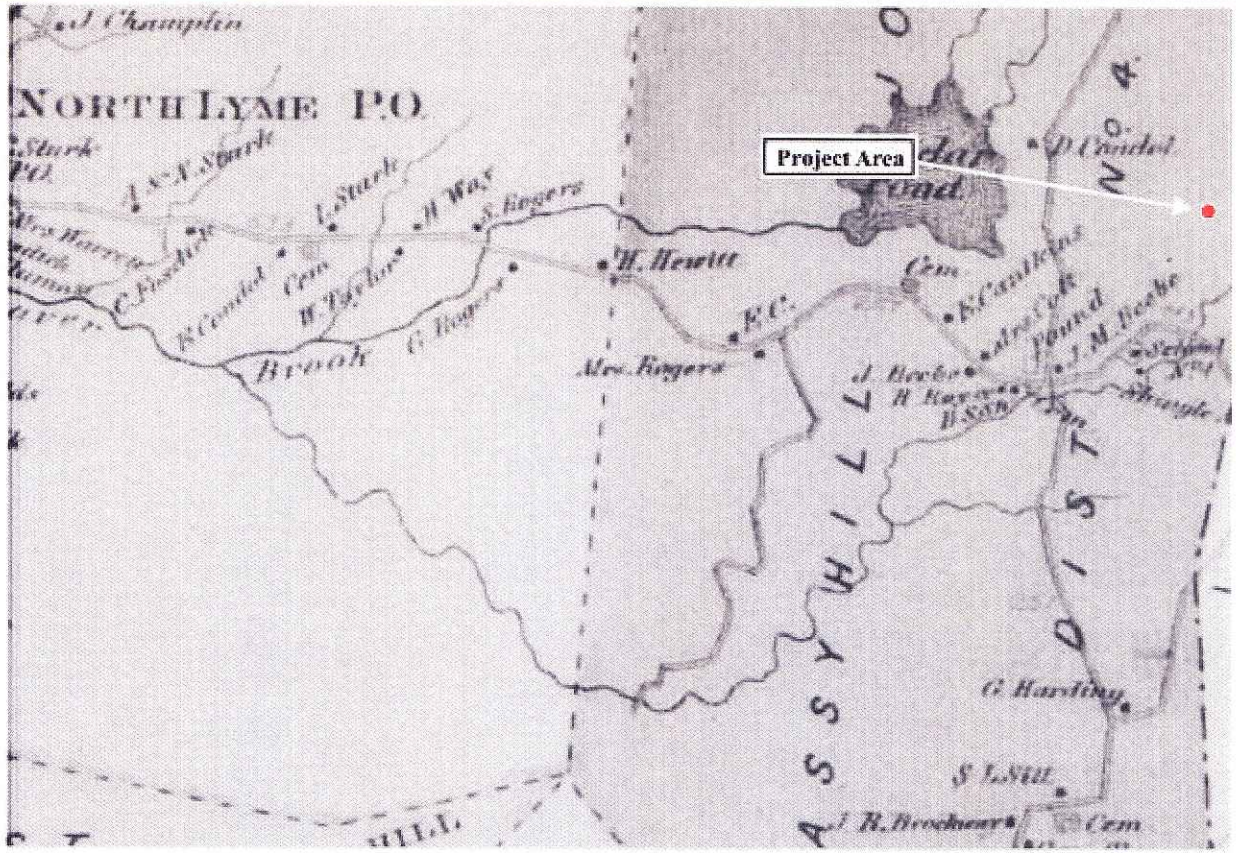
Approximate Location of the Project Area on the 1859 Clark and Tackabury *New Topographical Map of the State of Connecticut*



THE OTTERY GROUP
3420 Morningwood Drive
Olney, MD 20832
phone (301) 562-1976
fax (301) 562-1976

Figure 3.8:

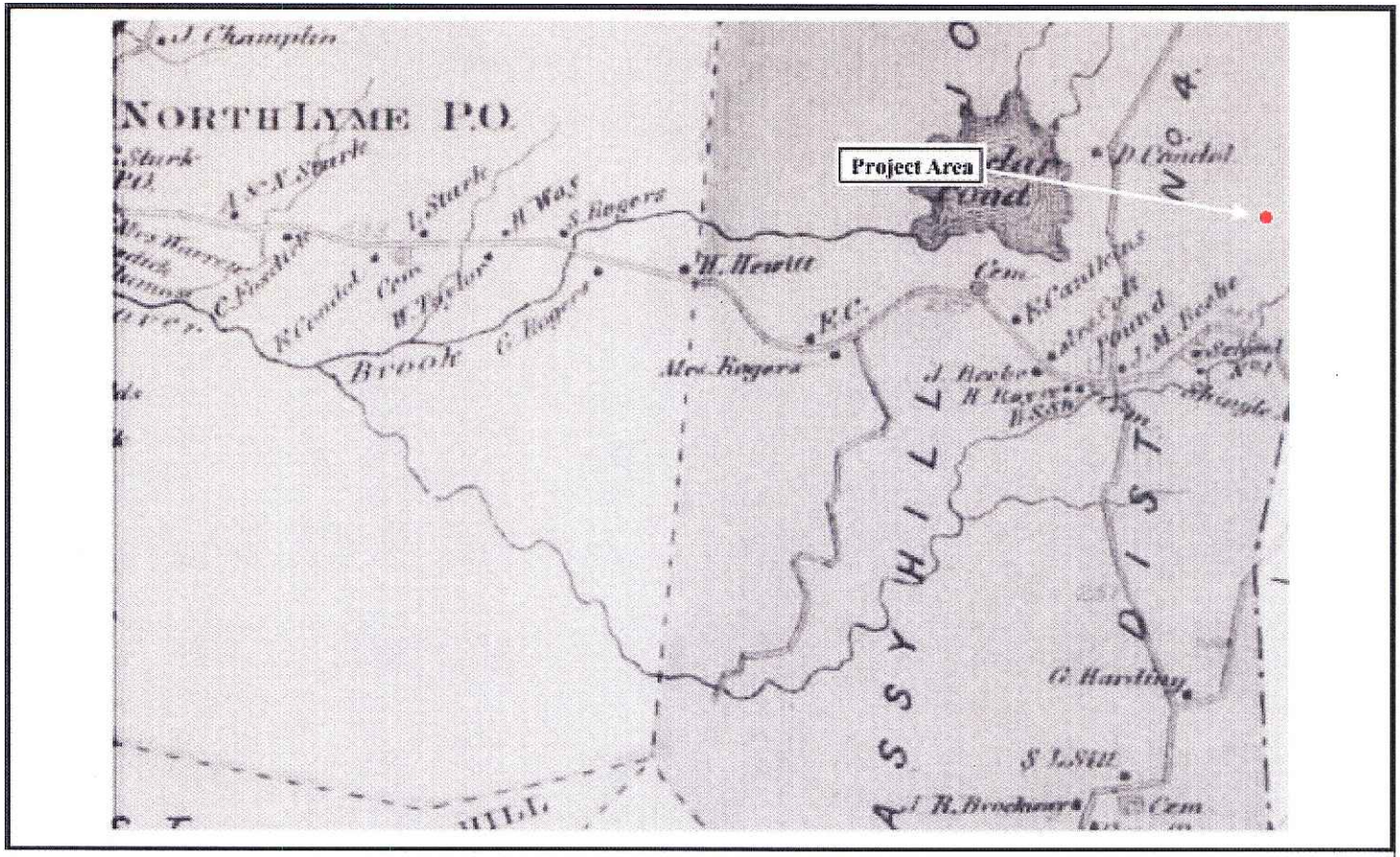
Approximate Location of the Project Area on the 1868 Beers, Ellis and Soule *Atlas of New London County*



THE OTTERY GROUP
3420 Morningwood Drive
Olney, MD 20832
phone (301) 562-1975
fax (301) 562-1976

Figure 3.8:

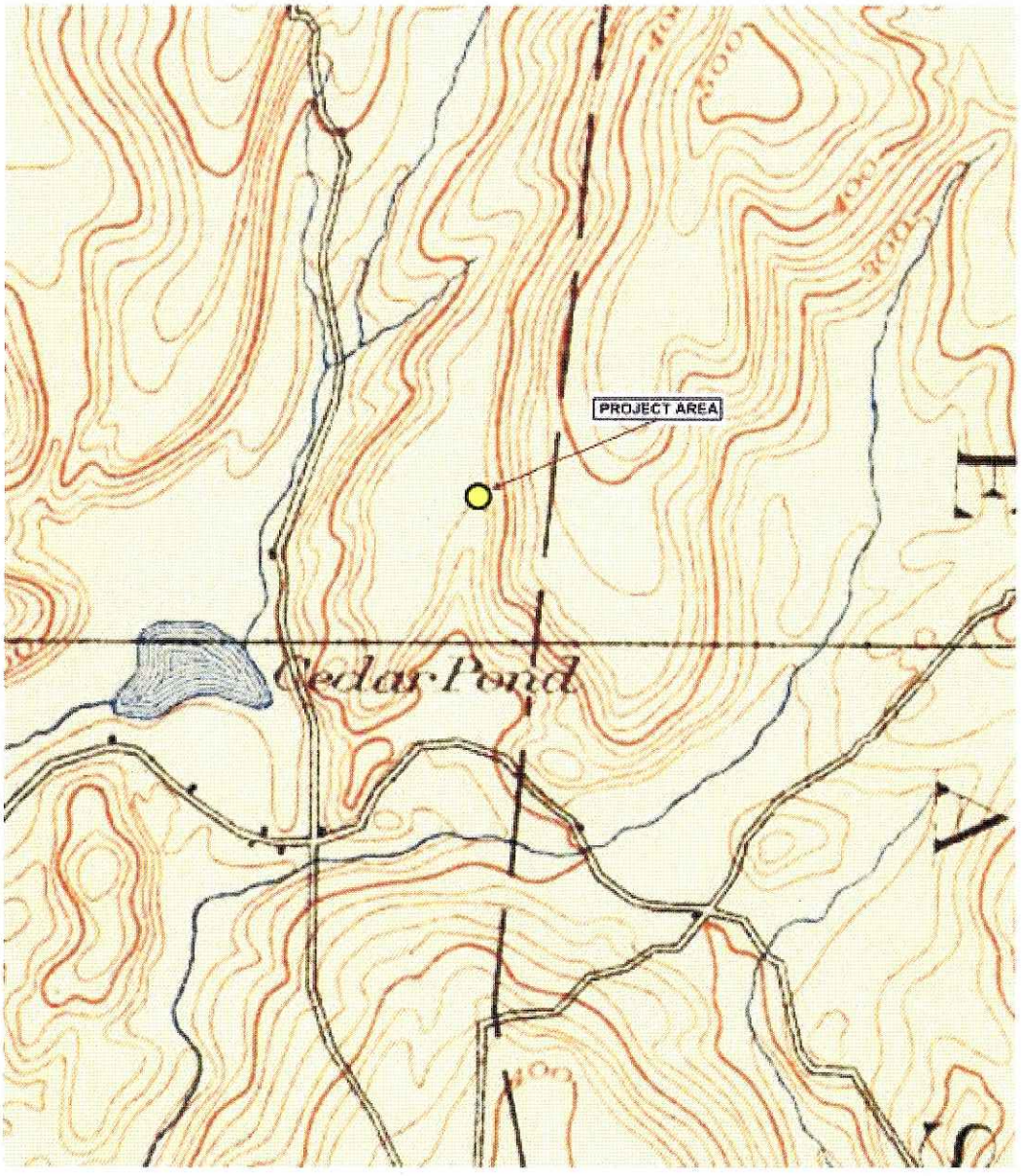
Approximate Location of the Project Area on the 1868 Beers, Ellis and Soule *Atlas of New London County*



THE OTTERY GROUP
2420 Morningwood Drive
Olney, MD 20832
phone (301) 562-1975
fax (301) 562-1976

Figure 3.8:

Approximate Location of the Project Area on the 1868 Beers, Ellis and Soule *Atlas of New London County*



THE OTTERY GROUP
3420 Morningwood Drive
Olney, MD 20832
phone (301) 562-1975
fax (301) 562-1976

Figure 3.9:

Location of the Project Area
on the 1893 USGS 15 Minute Saybrook, CT Quadrangle

3.4 Previously Identified Historic Resources

A review of the archeological site files at the Office of the Connecticut State Archaeologist (OSA) in Storrs, Connecticut indicated that the current project area had not been previously surveyed and no archeological sites had been recorded there. Within approximately one-mile of the project area there are six recorded archeological sites. Five of these are prehistoric sites identified by the Public Archeology Survey Team in the early 1980s (75-17, 75-28, 75-29, 75-30, and 75-34). Data regarding the sixth site, 75-94, was not present in the OSA files. Four of the five prehistoric sites are centered around Cedar Lake, which is approximately 2/3 mile (3500 feet) from the project area. The fifth site is adjacent to Blackwells Pond.

A total of two previous cultural resources surveys were conducted within one mile of the project area. These consisted of a six year survey of the Connecticut River Valley (McBride 1982) and the archeological assessment for a nearby telecommunications facility (Sperling 2008). The McBride survey was responsible for the identification of the five sites that information was available at the Office of State Archeology.

Table 3.1: Recorded Archeology Sites within a One-Mile Radius of the Project Area

Site Number	Site Name	Cultural/Temporal Affiliation	Description
75-17	Kenney Road	Woodland	Not described
75-28	Cedar Lake II	Late Archaic	Camp
75-29	Cedar Lake Rockshelter	Contact Period	Rockshelter
75-30	Cedar Lake	Late Archaic	Knoll in swamp
75-34	Cedar Lake III	UID Prehistoric	Knoll in swamp
75-94	Unknown	Unknown	No information in site files

Historic resource surveys have been conducted at the town level throughout Connecticut in the past 40 years. Two towns are present within a one-mile radius of the project area, Lyme and East Lyme. A total of six surveys were conducted within the towns since 1980, only one of which comes within one mile of the project area. A total of four properties were recorded in the vicinity of the project area by a 1980 survey conducted for the Connecticut River Estuary Planning Agency, including 2 18th century colonial style residences and 2 cemeteries, dating from 1784 and 1819. None of these resources were determined eligible for inclusion on the National Register of Historic Places. No National Register listed properties are present within one mile of the project area.

3.5 Expected Results/Archeological Potential

In December, 2008, The Ottery Group conducted an archeological assessment of the Lyme-Beaver Brook Road Telecommunications Facility project area. While the assessment concluded that the nearby wetlands provided a moderate potential for prehistoric resource procurement activity, limited testing within the project footprint recovered no artifacts resulting in a recommendation of no further testing. In a letter dated January 13, 2009, the SHPO did not concur with the recommendation and requested a full Phase I archeological survey of the facility, citing the presence of nearby sites centered around Cedar Lake as reason for examining this lesser wetland area.

Additional research at the Dodd Research Center identified an earlier historic presence in the vicinity of the project area than was originally reported in the assessment. While Beaver Brook Road appears as early as 1811 on maps of the area, the project area is situated far enough back from the road as to not be affected by development along the road. The general landscape precludes much in the way of

agricultural use and it is probable that the area was used primarily as a timber lot. There is a low potential for intact historic period archeological deposits within the project area.

4.0 Research Design and Methods

4.1 Objectives

On behalf of AT&T Mobility, The Ottery Group, Inc. conducted the Phase I archeological investigation of the proposed Lyme-Beaver Brook Road Telecommunications Site location in order to fulfill the requirements of the Connecticut State Historic Preservation Office (SHPO). In a letter dated January 13, 2009 the SHPO recommended that a Phase I archeological survey be undertaken to identify and evaluate unrecorded archeological resources within the project area (Appendix C).

Research included background research and field survey. Background research consisted of a review of archeological site files and previous investigations, historic maps, and a review of architectural surveys. Field investigations consisted of a pedestrian survey and sub-surface testing within the proposed Lyme-Beaver Brook Road Telecommunications Site location and access road.

4.2 Archival Research

Background research consisted of a review of archeological site files and survey reports held at the Office of the Connecticut State Archaeologist. In addition, historic maps were reviewed to examine former occupation and land use of the project area. At the Dodd Research Center in Storrs, reports of prior archeological surveys and historic resource surveys were consulted.

4.3 Field Methods

Fieldwork for the Lyme-Beaver Brook Road Telecommunications Site was conducted on March 24, 2009. A pedestrian walkover of the project area was conducted to determine if artifacts or features were exposed on visible ground surfaces. Subsurface testing was conducted within the area of potential effects with the excavation of shovel test pits (STPs). Nine STPs were dug in a grid pattern across an area that expanded from the proposed 100-foot by 100-foot lease area. An additional 3 judgmentally placed STPs were excavated along the existing path/access road. Each STP measured approximately 30cm diameter and was excavated in levels that approximated the existing soil horizons. All excavated soil was screened through 1/4 inch hardware cloth. Excavation generally proceeds until the test reached a minimum of ten centimeters (cm) into sterile subsoil, however within the current project area underlying bedrock halted 8 of the 12 STPs.

Once an STP was completed observations regarding the surrounding vegetation, artifacts recovered, and stratigraphy were recorded. Measurements were recorded in metric units. Stratigraphy was recorded with notations concerning color, texture, and consistency. Soil color was recorded using a Munsell color chart. Shovel tests were backfilled after completion.

If a STP yielded cultural materials, standard procedure requires that additional tests are excavated at reduced intervals in the four cardinal directions from the positive test in order to isolate discrete concentrations of artifacts or until negative tests (no artifacts) are encountered. Cultural materials recovered from a STP or surface collection were retained for analysis at the Ottery Group laboratory facilities in Olney, Maryland. All maps, field notes, shovel test record forms, catalog forms, photographs, and other project related information are on file with The Ottery Group in Olney, Maryland.

4.4 Laboratory Methods

The general methodology for the processing of archeological materials recovered from Phase I survey includes the cleaning, stabilization and cataloging of the artifact assemblage and associated records. In general, stable artifacts, such as ceramic and glass, are cleaned by hand with water and dried. More friable artifacts, such as bone or shell, are mechanically cleaned dry with a soft brush, unless additional conservation is necessary. Heavily corroded metals are cleaned with a stiff brush to remove adhering soils and expose diagnostic attributes. Artifacts are initially sorted into general categories based on material type and inventoried in a Microsoft Access database based on relevant diagnostic attributes. No artifacts were recovered during the course of the field investigation at the Lyme-Beaver Brook Road Telecommunications Site.

5.0 Results

The proposed Lyme-Beaver Brook Road Telecommunications Site is situated on an upland hilltop. The proposed access road extends approximately 1,500 feet from Beaver Brook Road to the lease area. The project area is undeveloped and wooded, and is bordered on all sides by woodland. A wetland lies to the south of the 100-foot by 100-foot lease area and the access road follows and existing dirt trail along the eastern property boundary.

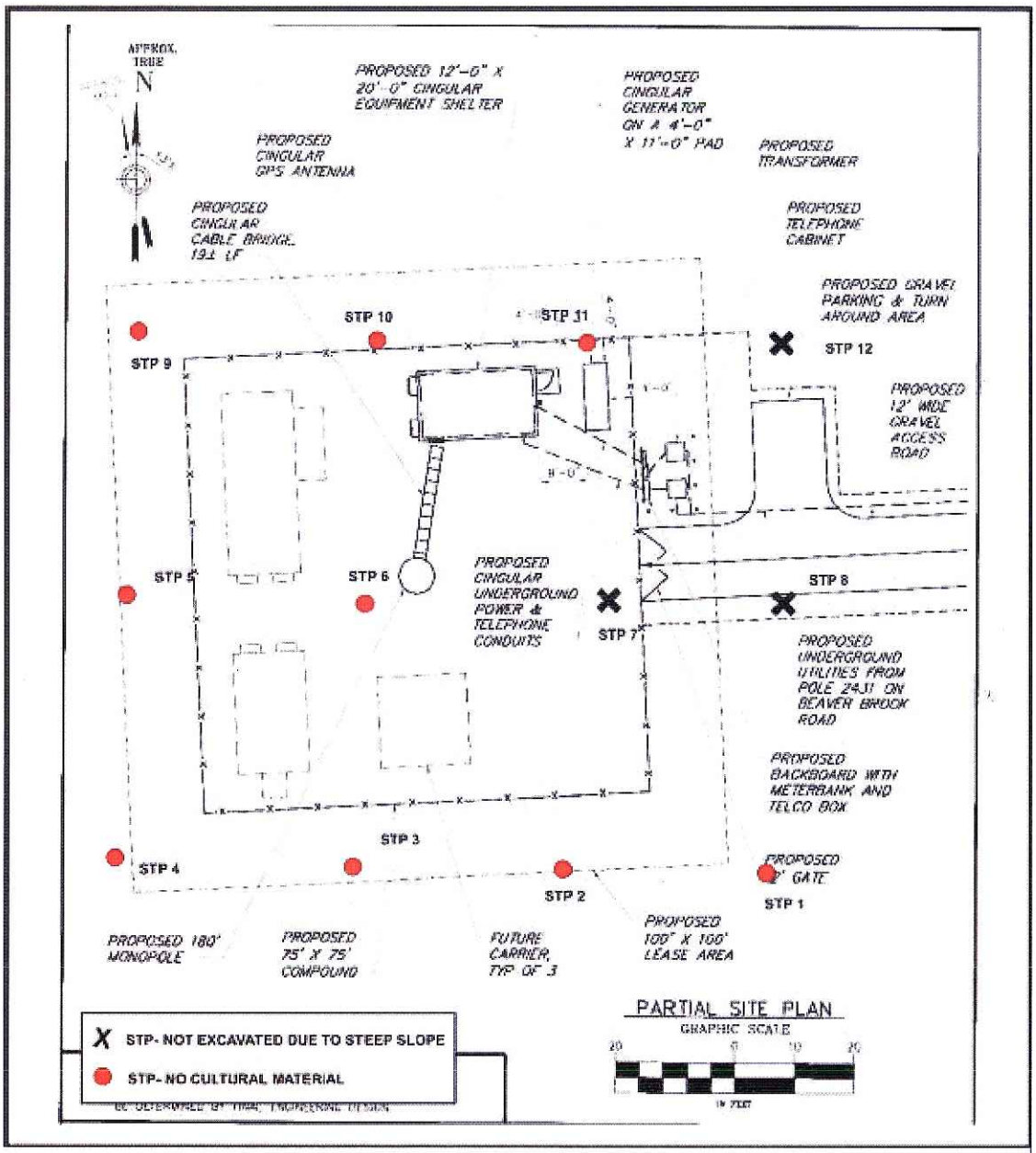
Fieldwork at the Lyme-Beaver Brook Road Telecommunications Site consisted of the visual inspection of the area of impact and surrounding vicinity. No features, structures or artifacts were observed within the project area during the surface inspection. A total of 9 STPs were excavated across the hilltop that encompasses the 100-foot by 100-foot lease area (Figure 5.1). Two soil profiles were observed across the project area. One consisted of a dark brown (7.5YR 3/2) silty loam organic A horizon 9-16 centimeters thick above a strong brown (7.5YR 4/6) stony sand loam B1 horizon extending to a depth of 20-32 centimeters before encountering a rock impasse.

The second soil profile included the same soils that are present in the first example but instead of encountering rock at 20-32 centimeters, the B1 horizon extended to depths ranging from 36-46 centimeters and is less stony than the first soils. Both STP profiles are consistent with the Charlton-Chatfield complex soils that are mapped for the area (see Section 2).

Three judgmentally placed STPs were excavated along the approximately 1,600 foot access road (Figure 5.2). The existing dirt trail that the access road follows is several inches below the surrounding ground surface, probably due to truck traffic along it. Because of the sunken nature of the access road, a non-standardized interval was used for testing. Of the three tests, the soils in one (STP 13) resembled the soils of the STPs in the lease area, although less rock was observed. STP 14, on the outer fringe of a wetland, contained decaying sandstone immediately beneath a shallow A0 horizon. The last STP (STP 15) was excavated south of the wetland and contained a dark yellowish brown (10YR 4/4) sandy loam possible Ap horizon 27 centimeters deep above a dark yellowish brown (10YR 4/6) sandy loam B horizon.

No artifacts or cultural features were identified during the field excavations.

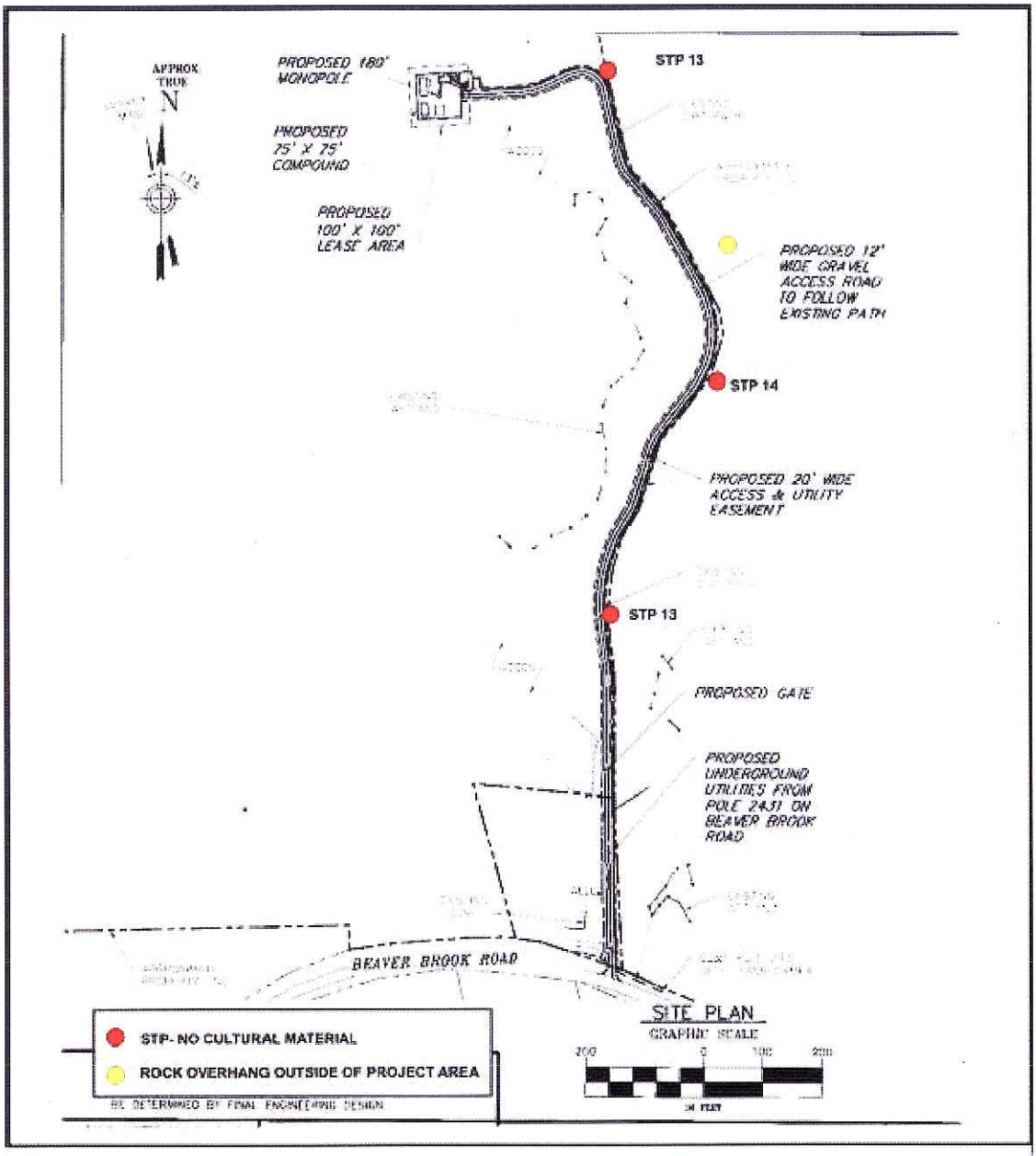
One rock formation with a westward facing overhang was observed approximately 20 meters beyond the limits of the proposed access road. This potential rock shelter is situated in a location overlooking a wetland area. The portion of the access road that passed close to the overhang was at the edge of the wetland and was too wet to test. A photograph of the rock overhang is included in Appendix B.



THE OTTERY GROUP
3420 Morningwood Drive
Olney, MD 20832
phone (301) 562-1975
fax (301) 562-1976

Figure 5.1:

Location of Archeological Testing within the Lease Area



THE OTTERY GROUP
3420 Morningwood Drive
Olney, MD 20832
phone (301) 562-1975
fax (301) 562-1976

Figure 5.2:

Location of Judgmental Archeological Testing in the Proposed Access Road

6.0 Conclusions and Recommendations

The Ottery Group, Inc., on behalf of AT&T Mobility, conducted the Phase I archeological investigation of the proposed Lyme-Beaver Brook Road Telecommunications Site location in order to fulfill the requirements of the Connecticut State Historic Preservation Office (SHPO). A pedestrian survey of the impacted area revealed no prehistoric or historic cultural material. Nine STPs were dug in a grid pattern across an area that expanded from the proposed 100-foot by 100-foot lease area. An additional three judgmentally placed STPs were excavated along the existing path/access road. No artifacts or cultural features were encountered.

No artifacts were recovered during visual inspection or subsurface testing and no archeological sites were recorded. This investigation confirmed that the proposed construction of this telecommunications facility would not impact unrecorded prehistoric or historic archeological resources. Based on the results of this archeological survey, no additional archeological investigations are recommended.

7.0 References Cited

Blodgett, William
1792 *A New and Correct Map of Connecticut One of the United States.* New Haven, Connecticut.

Bradfiord, Thomas
1838 *An Illustrated Atlas, Geographical, Statistical, and Historical of the United States and the Adjacent Countries.* Cambridge, Massachusetts.

Clark, G.H. and Tackabury
1859 *New Topographical Map of the State of Connecticut.* Philadelphia, Pennsylvania.

DeForest, J.W.
1964 *History of the Indians of Connecticut from the Earliest Period to 1850.* The Shoe String Press, Inc. Hamden, CT.

Department of Environmental Protection
1996 *Generalized Bedrock Geologic Map of Connecticut.* Hartford. http://www.wesleyan.edu/ctgeology/images/CtGeoMap_big.jpg.

Gillet, George and Moses Warren
1811 *Connecticut, From Actual Survey.*

Google Maps
2008 Norwich Connecticut.

Lavin, L.
1987 The Windsor Ceramic Tradition in Southern New England. *North American Archaeologist.* Vol. 8, p.p.23-42.

Lester, William, Jr.
1833 *Map of New London and Windham Counties, in Connecticut, From Actual Surveys.*

McBride, Kevin A.
1984 *The Prehistory of the Lower Connecticut Valley.* Ph.D. dissertation, Department of Anthropology, University of Connecticut, Storrs, CT.

Poirier, David, A
1987 *Environmental Review Primer for Connecticut's Archaeological Resources.* Connecticut Historical Commission State Historic Preservation Office. Hartford, Connecticut.

Snow, D.
1980 *The Archaeology of New England.* Academic Press, New York.

U.S. Department of Agriculture, Natural Resources Conservation Service
2009 Web Soil Survey. U.S. Department of Agriculture, Natural Resources Conservation Service, Washington, D.C.

U.S. Geological Survey
1892 Norwich, Connecticut 15 Minute Quadrangle.

1983 Norwich, Connecticut 7.5 Minute Quadrangle.

Walling, H.F. and W. Baker
1854 *Map of New London County, Connecticut.* William Baker, Philadelphia, Pennsylvania.

Wiegand, E.A. and D.L. Brown
2002 *Phase I Archaeological Reconnaissance Survey of the Gary Subdivision, 55 Mountain Road, Redding Connecticut.* Prepared by Ernest A. Wiegand, Consultant in Archaeology. Prepared for Robert Gary and Elizabeth Coprio Gary, Little Mountain Building Co.

Appendix A:

Qualifications of Investigators

LYLE C. TORP, RPA
Principal Investigator

EDUCATION

Catholic University of America, Ph.D. (ABD), Anthropology
University of South Florida, M.A., Anthropology (Public Archeology), 1992
Wake Forest University, B.A., Anthropology, 1988

EXPERIENCE

Lyle C. Torp consults on issues related to compliance with Section 106 of the National Historic Preservation Act (NHPA), conducts environmental assessments under the National Environmental Policy Act (NEPA), and performs a variety of services related to archeological and historical assessments and historic preservation planning. He has extensive experience performing Phase I, Phase II and Phase III cultural resource investigations, and has served as Principal Investigator on numerous compliance-related projects. He has acted as Principal Investigator or Project Supervisor for numerous compliance-related archeological projects throughout the United States. Mr. Torp is thoroughly familiar with all aspects of cultural resources/historic preservation legislation and regulation and he regularly consults on cultural resource issues under NEPA and NHPA. Mr. Torp is fully-qualified under the Secretary of the Interior's Standards for Archeology and Historic Preservation at 36 CFR 61, and is certified in archeology by ROPA.

Since 1998, Mr. Torp has directed the operations of a consulting firm with a staff of 17 cultural resource and environmental professionals. In this capacity he has augmented his prior work experience in conducting Phase I and Phase II ESAs, natural resource planning, and other environmental services with a diverse professional staff serving clients throughout the eastern United States.

KARL FRANZ
Archeologist/ Field Director

EDUCATION

Saint Mary's College of Maryland, Bachelor of Arts, Anthropology/Sociology, 1991

EXPERIENCE

Mr. Franz has over twenty years archeological experience including Phase I, II, and III terrestrial excavation, technical report authorship, spatial analysis, remote sensing, field direction, lab direction, historical research, osteological analysis, and historical and prehistoric artifact analysis. He has conducted cultural resource management surveys in 14 states in the Mid-Atlantic, Northeast, and Ohio Valley regions.

Appendix B:

Photographs of Project Area

Photograph 1: View from Project Area, facing North.

Photograph 2: View from Project Area, facing East.

Photograph 3: View from Project Area, facing South.

Photograph 4: View from Project Area, facing West.

Photograph 5: Access Road, facing North.

Photograph 6: View of Wetland from Access Road.

Photograph 7: Rock Overhang Adjacent to Access Road.

Photograph 8: Closeup of Rock Overhang.

Appendix C:

Connecticut State Historic Preservation Office Correspondence

Connecticut Commission on Culture & Tourism

Historic Preservation
and Museum Division

One Constitution Plaza
Second Floor
Hartford, Connecticut
06103

860 256 2800
860 256 2811 FAX

January 13, 2009

Mr. Lyle C. Torp
The Ottery Group
1810 August Drive
Silver Spring, MD 20902

Subject: AT&T Mobility Telecommunications Facilities
322 Beaver Brook Road
Lyme, CT

Dear Mr. Torp:

The State Historic Preservation Office has reviewed the above-named project. This office notes that The Ottery Group's archaeological assessment neither identifies nor discusses five Native American archaeological sites, located around Cedar Lake, which is situated in immediate proximity to the proposed telecommunications facilities. We believe that the project area possesses moderate to high sensitivity for prehistoric archaeological resources and that additional archaeological investigations are warranted in order to identify and evaluate archaeological resources which may exist within proposed project limits, including access road improvements, equipment storage and associated work areas. All archaeological studies must be undertaken in accordance with our *Environmental Review Primer for Connecticut's Archaeological Resources*.

No ground disturbance or construction-related activities should be initiated until this office has had an opportunity to review and comment upon the recommended archaeological survey report.

We anticipate working with all interested parties in the expeditious furtherance of the proposed undertaking as well as in the professional management of Connecticut's archaeological heritage.

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

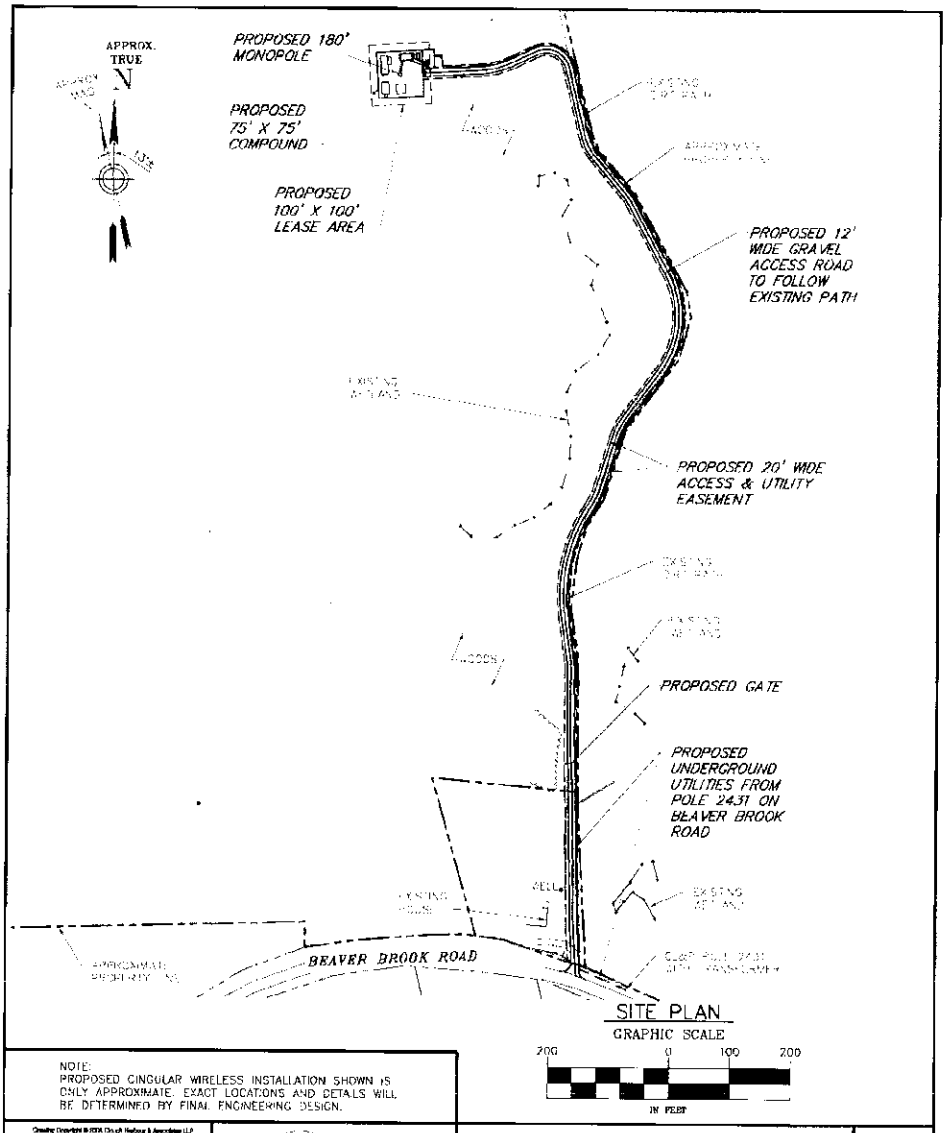
Sincerely,

David Bahlman
Deputy State Historic Preservation Officer

cc: Dr. Nicholas Bellantoni/OSA
Dr. Jeffrey Bendremer/MT

Appendix D:

Site Plans



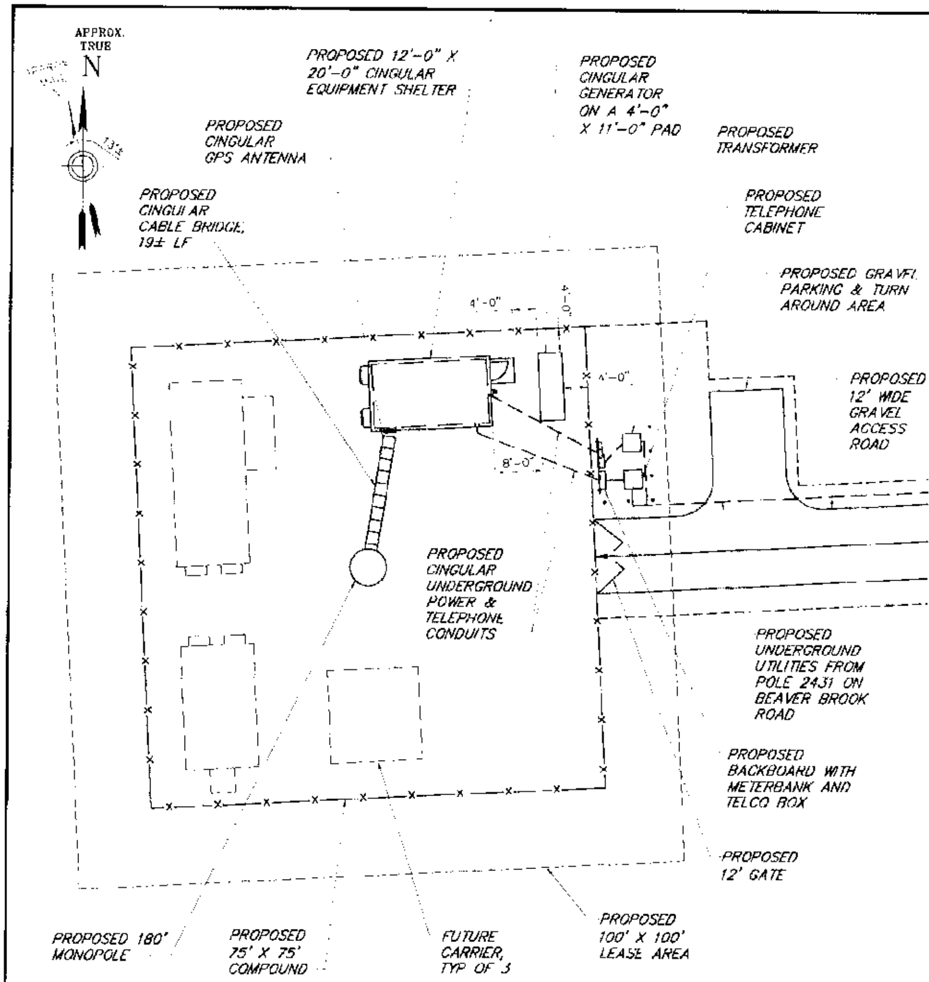
NOTE:
PROPOSED CINGULAR WIRELESS INSTALLATION SHOWN IS ONLY APPROXIMATE. EXACT LOCATIONS AND DETAILS WILL BE DETERMINED BY FINAL ENGINEERING DESIGN.

CLOUGH HARBOUR & ASSOCIATES LLP

at&t
cingular WIRELESS
NEW CINGULAR WIRELESS PCS, LLC
500 ENTERPRISE DRIVE, ROCKY HILL, CT 06067

SR1636
LYME-BEAVER BROOK ROAD
322 BEAVER BROOK ROAD
LYME, CT 06371
NEW LONDON COUNTY
CHA PROJ. NO. - 18301-1019

1 OF 3
REV 1
LE-1



PARTIAL SITE PLAN

GRAPHIC SCALE

20 0 10 20

IN FEET

NOTE:
PROPOSED CINGULAR WIRELESS INSTALLATION SHOWN IS ONLY APPROXIMATE. EXACT LOCATIONS AND DETAILS WILL BE DETERMINED BY FINAL ENGINEERING DESIGN.

CHA
CLOUGH HARBOUR & ASSOCIATES LLP

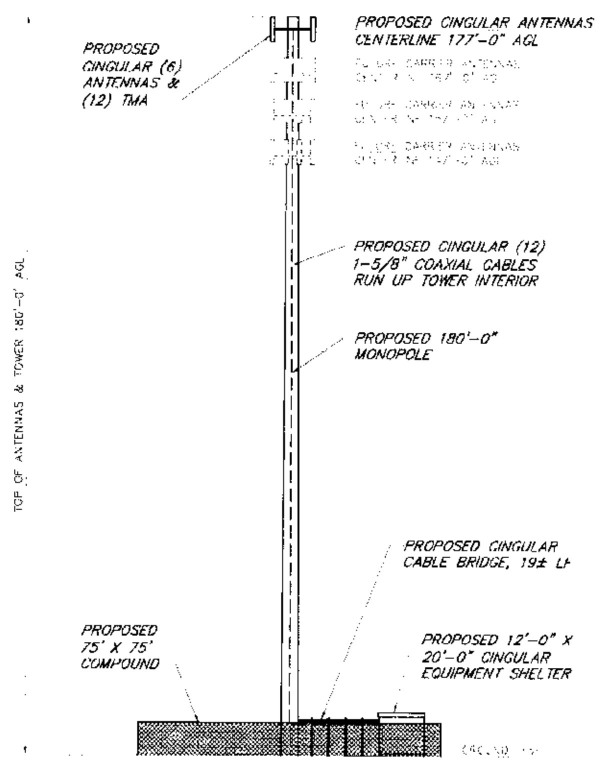
at&t
cingular WIRELESS
NEW CINGULAR WIRELESS PCS, LLC
500 ENTERPRISE DRIVE, ROCKY HILL, CT 06067

SR1836
LYME-BEAVER BROOK ROAD
322 BEAVER BROOK ROAD
LYME, CT 06371
NEW LONDON COUNTY
CHA PROJ. NO. – 18301-1019

2 OF 3

REV 1

LE-2



TOWER ELEVATION
NO SCALE

NOTE:
PROPOSED CINGULAR WIRELESS INSTALLATION SHOWN IS ONLY APPROXIMATE. EXACT LOCATIONS AND DETAILS WILL BE DETERMINED BY FINAL ENGINEERING DESIGN.

CHA
CLOUGH HARBOUR & ASSOCIATES LLP

at&t
Your world Delivered
cingular
WIRELESS
NEW CINGULAR WIRELESS PCS, LLC
500 ENTERPRISE DRIVE, ROCKY HILL, CT 06067

SR1836
LYME-BEAVER BROOK ROAD
322 BEAVER BROOK ROAD
LYME, CT 06371
NEW LONDON COUNTY
CHA PROJ. NO. 18301-1019

3 OF 3
REV 1
LE-3

(This page intentionally left blank.)

Reserved for
Exhibit # 8

CERTIFICATION OF SERVICE

I hereby certify that on the _____ day of _____, 2009, copies of AT&T's Application and Attachments for a Certificate of Environmental Compatibility and Public Need for the Construction, Maintenance and Operation of a Wireless Telecommunications Facility were sent by certified mail, return receipt requested, to the following:

State and Regional

The Honorable Richard Blumenthal
Attorney General
Office of the Attorney General
55 Elm Street
Hartford, CT 06106

Department of Environmental Protection
Regina McCarthy, Commissioner
79 Elm Street
Third Floor
Hartford, CT 06106

Department of Public Health
J. Robert Galvin, M.D., M.P.H, M.B.A.
Commissioner
410 Capitol Avenue
Hartford, CT 06134-0308

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

Department of Public Utility Control
Donald W. Downes, Chair
10 Franklin Square
New Britain, CT 06051

Office of Policy and Management
Robert L. Genuario, Secretary
450 Capitol Avenue
Hartford, CT 06106-1308

Department of Economic and Community Development
Joan McDonald, Commissioner
505 Hudson Street
Hartford, CT 06106-71067

Department of Transportation
Joseph F. Marie, Commissioner
2800 Berlin Turnpike
Newington, CT 06131-7546

Department of Agriculture
F. Philip Prelli, Commissioner
165 Capitol Avenue
Hartford, CT 06106

Connecticut River Estuary Regional Planning Agency
Linda Krause, Executive Director
455 Boston Post Road
P.O. Box 778
Old Saybrook, CT 06475

State Senator
Hon. Eileen M. Daily
33rd Senatorial District
Legislative Office Building
Room 3700
Hartford, CT 06106-1591

State Representative
Hon. Marilyn Giuliano
23rd Assembly District
House Republican Office
L.O.B. Room 4200
Hartford, CT 06106

Federal

Federal Aviation Administration
800 Independence Avenue, SW
Washington, DC 20591

Federal Communications Commission
445 12th Street SW
Washington, D.C. 20554

Town of Lyme

Town of Lyme
Ralph F. Eno, Jr.
First Selectman
Lyme Town Hall
480 Hamburg Road
Lyme, CT 06371

Town of Lyme
Planning & Zoning Commission
Mark Tiffany, Chair
Kendro Building
Lyme Town Hall
480 Hamburg Road
Lyme, CT 06371

Ruth Perry
Town Clerk
Lyme Town Hall
480 Hamburg Road
Lyme, CT 06371
Town of Lyme

Inland/Wetlands Commission
Conservation Commission
Paul Armond, Chair
480 Hamburg Road
Lyme, CT 06371

Town of Lyme
Bernard Gigliotti
Zoning Enforcement Officer
Lyme Town Hall
480 Hamburg Road
Lyme, CT 06371

Town of East Lyme

Town of East Lyme
Paul Formica, First Selectman
PO Box 519
Niantic, CT 06357

Town of East Lyme
Esther B. Williams
Town Clerk
PO Box 519
Niantic, CT 06357

Town of East Lyme
Inland-Wetlands Agency
Edmund Hafner, Chairman
PO Box 519
Niantic, CT 06357

Town of East Lyme
Zoning Commission
Mark Nickerson, Chairman
PO Box 519
Niantic, CT 06357

Town of East Lyme
Planning Commission
Lisa Picarazzi, Chairman
PO Box 519
Niantic, CT 06357

East Lyme Commission for the
Conservation of Natural Resources
Arthur D. Carlson, Chair
PO Box 519
Niantic, CT 06357

Dated_____

_____

Cuddy & Feder LLP
445 Hamilton Avenue, 14th Floor
White Plains, New York 10601
Attorneys for AT&T

(This page intentionally left blank.)

Reserved for
Exhibit # 9

PUBLISHER'S CERTIFICATE

State of Connecticut
County of New London, ss. New London

Personally appeared before the undersigned, a Notary Public within and for said County and State, Melanie Foley, Legal Adverising Clerk, of The Day Publishing Company Classifieds dept, a newspaper published at New London, County of New London, state of Connecticut who being duly sworn, states on oath, that the Order of Notice in the case of

7740 LEGAL NOTICE Notice is hereby given, pursuant to Sec

A true copy of which is hereunto annexed, was published in said newspaper in its issue(s) of

04/29/2009, 04/30/2009

Cust: CUDDY & FEDER LLP
Ad #: d00188997

Melanie Foley

Subscribed and sworn to before me

This Thursday, April 30, 2009

Maryellen Sobnosky

Notary Public

My commission expires 5/31/09

7740

LEGAL NOTICE

Notice is hereby given, pursuant to Section 16-50l(b) of the Connecticut General Statutes and Section 16-50l-1(e) of the Regulations of Connecticut State Agencies of an Application to be filed with the Connecticut Siting Council ("Siting Council") on or after May 4, 2009 by AT&T (the "Applicant") for a certificate of environmental compatibility and public need for the construction and maintenance of a wireless telecommunications facility in Lyme, Connecticut. The property being considered for the proposed wireless telecommunications facility (the "Facility") is located at 27 Gungy Road. The proposed Facility will be located near the central portion of the parcel and will consist of a 180-foot self-supporting monopole tower, antennas and a 75'x 75' fenced equipment compound designed to accommodate unmanned equipment in either single-story equipment buildings or on concrete pads. Access to the Facility will be via a new gravel access drive through the adjoining parcel at 322 Beaverbrook Road.

The location, height and other features of the proposed Facility are subject to review and potential change under provisions of the Connecticut General Statutes Sections 16-50g et. seq.

The Facility is being proposed to allow AT&T to provide service in this area of Town. The Application explains the need, purpose and benefits of the Facility and also describes the environmental impacts of the proposed Facility.

A balloon, representative of the proposed height of the monopole, will be flown at the proposed site on the first day of the Siting Council public hearing on the Application, which will take place in Town, or such other date specified by the Siting Council and a time to be determined by the Siting Council, but anticipated to be between the hours of 12pm and 5pm.

Interested parties and residents of the Town of Lyme, Connecticut are invited to review the Application during normal business hours after May 4, 2009 at any of the following offices:

Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

Town Clerk
Lyme Town Hall
480 Hamburg Road
Lyme, CT 06371

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

Christopher B. Fisher, Esq.
Cuddy & Feder LLP
445 Hamilton Ave, 14th Floor
White Plains, New York 10601
(914) 761-1300
Attorneys for the Applicant

May 5, 2009

VIA CERTIFIED MAIL
RETURN RECEIPT REQUESTED

NAME
ADDRESS

Re: AT&T
Proposed Wireless Telecommunications Facility
27 Gungy Road / 322 Beaver Brook Road, Lyme, Connecticut
Application to the State of Connecticut Siting Council

Dear _____:

We are writing to you on behalf of our client AT&T with respect to the above referenced matter and our client's intent to file an application with the State of Connecticut Siting Council for approval of a proposed wireless communications tower facility (the "Facility") within the Town of Lyme. State law requires that owners of record of property that abuts a parcel on which facility is proposed be sent notice of an applicant's intent to file an application.

The property being considered for the proposed Facility is located at 27 Gungy Road with access via 322 Beaver Brook Road. The proposed Facility will be located in the central portion of the parcel and will consist of a 180-foot self-supporting monopole tower, antennas and 75'x 75' fenced equipment compound designed to accommodate unmanned equipment in single-story equipment buildings or on concrete pads.

Vehicular access to the site will extend along from Beaver Brook Road through the property at 322 Beaver Brook Road over a 1,833' gravel access drive to the proposed Facility. Underground utility connections would extend along the access drive from a utility pole on Beaver Brook Road.

The location, height and other features of the proposed Facility are subject to review and potential change by the Connecticut Siting Council under the provisions of Connecticut General Statutes §16-50g et seq.

If you have any questions concerning this application, please do not hesitate to contact the Connecticut Siting Council or the undersigned after May 8, 2009, the date which the application is expected to be on file.

Very truly yours,

Daniel M. Laub

DML/ec

ADJACENT PROPERTY OWNERS
27 Gungy Road/ 322 Beaver Brook Road

CERTIFICATION OF SERVICE

I hereby certify that on the 5th day of May, 2009 a copy of the foregoing letter was mailed by certified mail, return receipt requested to each of the abutting properties owners on the accompanying list.

May 8, 2009
Date

Cuddy & Feder LLP
445 Hamilton Avenue, 14th Floor
White Plains, New York 10601

Attorneys for:
AT&T

ADJACENT PROPERTY OWNERS
27 Gungy Road / 322 Beaver Brook Road

The following information was collected from the Town of Lyme's Tax Assessors' records

Property Owners and Mailing Addresses

Maps-Lots: 52-10, 52-16, 53-6
Lyme Land Conservation Trust, Inc.
P.O. Box 1002
Old Lyme, CT 06371

Maps-Lots: 52-12, 53-8
Frederick & Elizabeth Sturges
348 Beaver Brook Road
Lyme, CT 06371

Map-Lot: 53-2
G-Four LLC
6 Lobb Lane
Deep River, CT 06417

Map-Lot: 53-3
Marc & Linda Evankow
57 Gungy Road
Lyme, CT 06371

Map-Lot: 53-4
David & Maryann Cook
51 Gungy Road
Lyme, CT 06371

Map-Lot: 53-7
Philip E. Young
21 Gungy Road
Lyme, CT 06371

Map-Lot: 52-15
Arnold & Judith Chassanoff
319 Beaver Brook Road
Lyme, CT 06371

Map-Lot: 52-14
Bruce & Gail Freeman
325 Beaver Brook Road
Lyme, CT 06371

Map-Lots: 52-8, 52-7
Anthony John Plikus, Jr.
14 Gungy Road
Lyme, CT 06371

Map-Lot: 45-14
Steven Evankow
61 Keeney Road
Lyme, CT 06371

Map-Lot: 45-14
Mary & Ingersoll Muhlnausen
42 Gungy Road
Lyme, CT 06371

Map-Lot: 45-16
Christopher & Barbera Arelt
20 Bokum Road
Deep River, CT 06417

Map-Lot: 45-17
Anthony J. Palladino &
Anne Marie Mackin
105 Mile Creek Road
Old Lyme, CT 06371

Map-Lot: 45-18
Pamela Ingersoll & Kara Bonsack
50 Gungy Road
Lyme, CT 06371

Map-Lot: 53-1
Pamela & Charles Ingersoll
50 Gungy Road
Lyme, CT 53-1

(This page intentionally left blank.)

Reserved for
Exhibit # 10

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 the location of the proposed site should accompany the description;	I.B: Executive Summary, page 1 Attachment 3: Description and Design of Proposed Facility
(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.B: Executive Summary, page 1 V: Facility Design: pages 8-9
(C) A statement of the purpose for which the application is made;	I.A: Purpose and Authority, page 1
(D) A statement describing the statutory authority for such application;	I.A: Purpose and Authority, page 1
(E) The exact legal name of each person seeking the authorization or relief and the address or principle 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;	I.C: 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;	I.C: 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;	III.A: Statement of Need, pages 4-5 Attachment 1: Statement of Need with plots of existing and proposed coverage
(H) A statement of the benefits expected from the proposed facility with as much specific information as is practicable;	III.B: Statement of Benefits, pages 5-6
(I) A description of the proposed facility at the proposed prime and alternative sites including: **(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; **(2)** Access roads and utility services; **(3)** Special design features; **(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; **(5)** A map showing any fixed facilities with which the proposed facility would interact;	I.B. Executive Summary, page 1 V: Facility Design, pages 8-9 Attachment 3: Description and Design of Proposed Facility VI.C: Power Density, page 11 Attachment 1: Statement of Need with proposed coverage plots

Application Guideline	Location in Application
(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 (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.	Attachment 1: Statement of Need with plots of existing and proposed coverage
(J) A description of the named sites, including : (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; (2) A map (scale not less than 1 inch = 200 feet) of the lot or tract on which the facility is proposed to be located 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; (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; (4) Where relevant, a terrain profile showing the proposed facility and access road with existing and proposed grades; and (5) The most recent aerial photograph (scale not less than 1 inch = 1000 feet) showing the proposed site, access roads, and all abutting properties.	Attachment 3: Description and Design of Proposed Facility Attachment 4: Visual Resource Evaluation Report
(K) A statement explaining mitigation measures for the proposed facility including: (1) Construction techniques designed to specifically minimize adverse effects on natural areas and sensitive areas; (2)Special design features made specifically to avoid or minimize adverse effects on natural areas and sensitive areas; (3) Establishment of vegetation proposed near residential, recreation, and scenic areas; and (4) Methods for preservation of vegetation for wildlife habitat and screening.	Attachment 3: Description and Design of Proposed Facility VI: Environmental Compatibility, pages 9-11
(L) A description of the existing and planned land uses of the named sites and surrounding areas;	VII.D: Planned and Existing Land Uses, page 17
(M) A description of the scenic, natural, historic, and recreational characteristics of the named sites and surrounding areas including officially designated nearby hiking trails and scenic roads;	VI: Environmental Compatibility, pages 9-11 Attachment 3: Environmental Assessment Statement

Application Guideline	Location in Application
(N) Sight line graphs to the named sites from visually impacted areas such as residential developments, recreational areas, and historic sites;	Attachment 4: Visual Resource Evaluation Report
(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;	IV.A: Site Selection, page 6-8 Attachment 2: Site Search Summary
(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;	IV.A: Site Selection, page 6 IV.B: Tower Sharing, page 8 V: Facility Design, page 8 Attachment 2: Site Search Summary
(Q) A description of the technological alternatives and a statement containing justification for the proposed facility;	III.C: Technological Alternatives, page 6-8 Attachment 1: Statement of Need with plots of existing and proposed coverage
(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;	IV.A: Site Selection, pages 6-8 Attachment 2: Site Search Summary
(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 facilities, and signal loss due to geographical features compared to the proposed site(s);	IV.A. Site Selection, pages 6-7 Attachment 2: Site Search Summary
(T) A statement describing hazards to human health, if any, with such supporting data and references to regulatory standards;	VI: Environmental Compatibility, pages 9-11
(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;	IX.A: Overall Estimated Cost, pages 18-19
(V) A schedule showing the proposed program of site acquisition, construction, completion, operation and relocation or removal of existing facilities for the named sites;	IX.B: Overall Scheduling, page 18-19
(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	VI. A: Visual Assessment, page 10

Application Guideline	Location in Application
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	
(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 which reviews were conducted concerning the facility, including a copy of any agency position or decision with respect to the facility; and 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.	VI: Environmental Compatibility, pages 9-11 Attachment 7: Correspondence with State Agencies Attachment 5: FCC/NEPA Environmental Compliance Report Attachment 6: Record of municipal review process and correspondence VII: Consistency with the Town of Lyme's Land Use Regulations Bulk Filing
(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;	V: Facility Design, pages 8-9
(Z) Such information as the applicant may consider relevant.	