



TECHNICAL REPORT
to the
TOWN OF BRANFORD

OMNIPPOINT COMMUNICATIONS, INC.
(T-MOBILE)

PROPOSED BRANFORD
MONOPOLE TOWER TELECOMMUNICATIONS FACILITY

123 PINE ORCHARD ROAD
BRANFORD, CONNECTICUT

*Omnipoint Communications, Inc.
35 Griffin Road South
Bloomfield, Connecticut 06002*

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Introduction

Omnipoint Communications, Inc., a subsidiary of T-Mobile USA, Inc., d/b/a T-Mobile ("T-Mobile") hereby submits this Technical Report to the Town of Branford pursuant to Connecticut General Statutes § 16-50f. T-Mobile proposes to install a wireless telecommunications facility (the "Facility") on an approximately 4.15 acre parcel located at 123 Pine Orchard Road and owned by Malavasi Investments LLC ("Pine Orchard Road Site" or "Site"). The Facility will consist of a 125 ft monopole structure (the "Tower") with antennas mounted at a centerline of approximately 122 ft AGL and related equipment at the base of the tower, on a concrete equipment pad within the proposed compound area. The Facility, if approved, would provide wireless communications service in this area of Branford.

The purpose of this Technical Report is to provide the Town of Branford with information concerning the need for the proposed Facility (Section 1), the site selection process (Section 2), the Facility design and any environmental effects associated with the proposed Facility (Section 3).

Correspondence and/or communications regarding this Technical Report should be addressed to the attorneys for the applicant:

Cohen and Wolf, P.C.
1115 Broad Street
Bridgeport, CT 06604
(203) 368-0211

Attention: Julie D. Kohler, Esq.
Jesse A. Langer, Esq.

SECTION 1

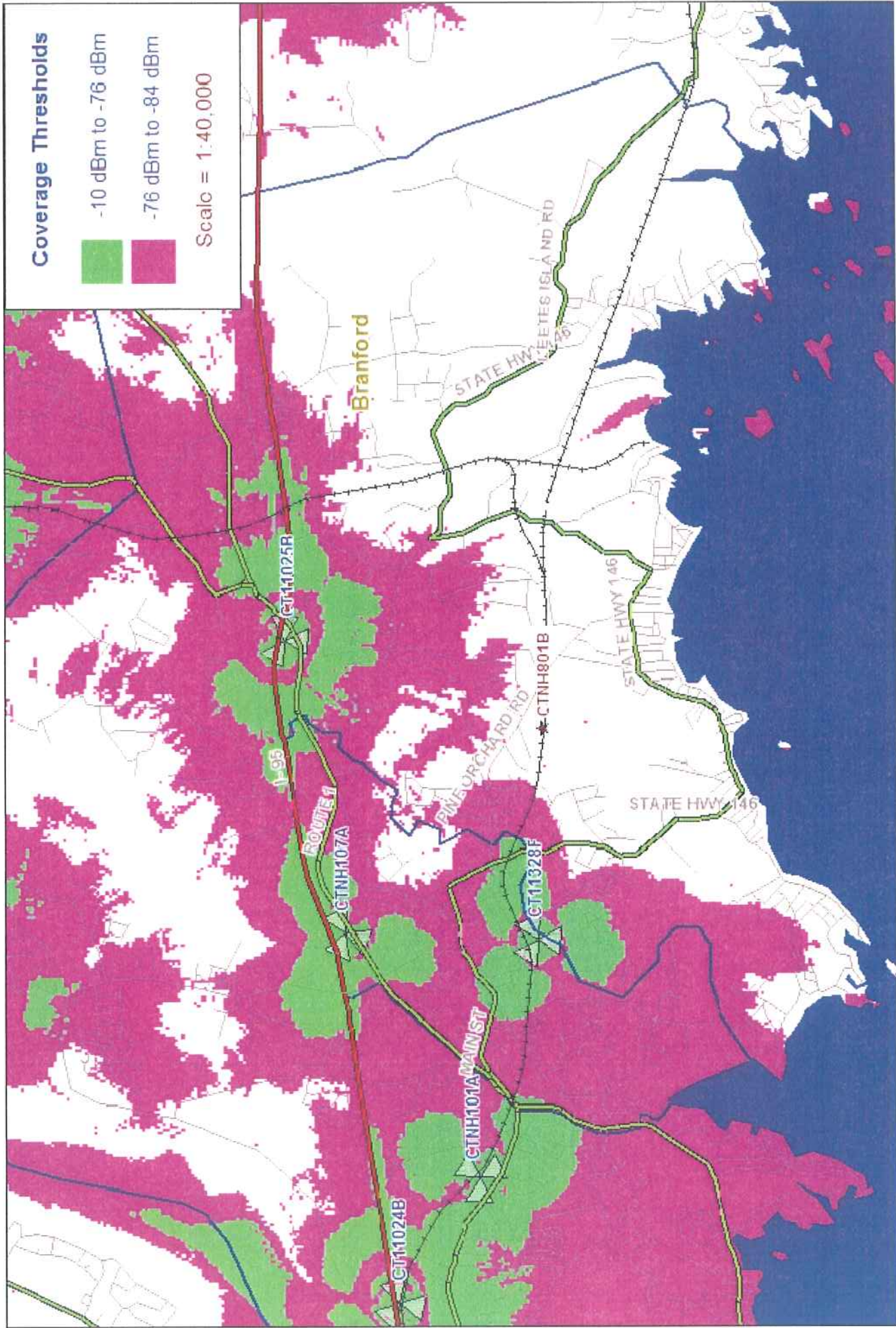
Site Justification

The proposed Pine Orchard Road Site is necessary to enhance wireless service availability to existing and future T-Mobile wireless device users. Enhanced coverage provided by the Facility will allow T-Mobile subscribers to use voice and data services reliably as well as to connect to Emergency 911 services. The intended coverage area of the Facility includes Pine Orchard Road, Route 146, Damascus Road and Meadowood Road just south of Interstate 95 and Route 1 in Branford, as well as the Amtrak Rail Line that passes through this area. Additionally, the Facility will provide capacity relief for the current sites that presently cover this area from outer lying areas.

Included herein are propagation plots prepared by T-Mobile that depict (1) coverage from existing and approved surrounding sites; (2) predicted coverage from the proposed Site with antennas mounted at an approximate centerline of 122 ft above grade level ("AGL"); and (3) coverage from the proposed Site with existing and approved sites.

Together, these propagation plots clearly demonstrate the need for a site in the area and the effectiveness of the proposed Site in meeting the need for wireless service in this area of Branford.

ATTACHMENT A



Coverage Thresholds

-10 dBm to -76 dBm

-76 dBm to -84 dBm

Scale = 1:40,000

Branford

STATE HWY 146
 SEETES ISLAND RD

STATE HWY 146
 PINEURCHARD RD
 CTNH801B

STATE HWY 146

CTNH024B

CTNH07A

CTNH01A

CTNH01A-2

CTNH01A-3

CTNH01A-4

CTNH01A-5

CTNH01A-6

CTNH01A-7

CTNH01A-8

CTNH01A-9

CTNH01A-10

CTNH01A-11

CTNH01A-12

CTNH01A-13

CTNH01A-14

CTNH01A-15

CTNH01A-16

CTNH01A-17

CTNH01A-18

CTNH01A-19

CTNH01A-20

CTNH01A-21

CTNH01A-22

CTNH01A-23

CTNH01A-24

CTNH01A-25

CTNH01A-26

CTNH01A-27

CTNH01A-28

CTNH01A-29

CTNH01A-30

CTNH01A-31

CTNH01A-32

CTNH01A-33

CTNH01A-34

CTNH01A-35

CTNH01A-36

CTNH01A-37

CTNH01A-38

CTNH01A-39

CTNH01A-40

CTNH01A-41

CTNH01A-42

CTNH01A-43

CTNH01A-44

CTNH01A-45

CTNH01A-46

CTNH01A-47

CTNH01A-48

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CTNH01A-86

CTNH01A-87

CTNH01A-88

CTNH01A-89

CTNH01A-90

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CTNH01A-93

CTNH01A-94

CTNH01A-95

CTNH01A-96

CTNH01A-97

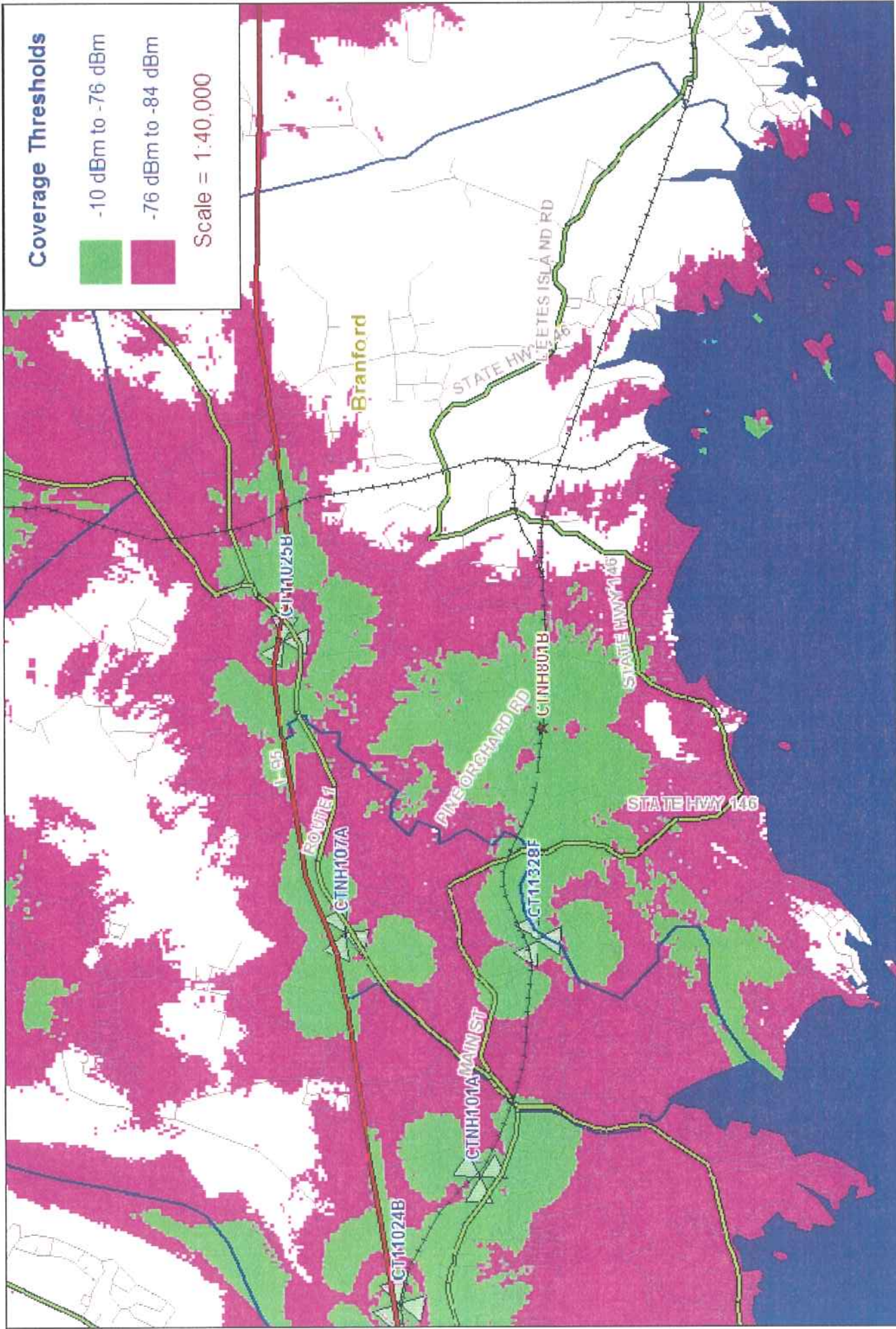
CTNH01A-98

CTNH01A-99

CTNH01A-100



- T-Mobile - Existing T-Mobile On Air Coverage



Coverage Thresholds

- -10 dBm to -76 dBm
- -76 dBm to -84 dBm

Scale = 1:40,000



Existing T-Mobile On Air Coverage
With CTNH801B @ 122' AGL

-T-Mobile--



SECTION 2

Site Search Process and Selection

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

As an FCC licensed wireless carrier, T-Mobile decides to seek out a site in an area based upon the needs of its wireless infrastructure and extensive research of the subject area. T-Mobile chooses a target area central to the area in which it has identified coverage and/or capacity needs. The area targeted is the geographical location where the installation of a site would, based on general radio frequency engineering and system design standards, likely address the identified problem. T-Mobile's goal is to locate sites that will remedy coverage or capacity issues, while resulting in the least environmental impact. In this case, T-Mobile has searched for a site in this area for several years, and has identified the Pine Orchard Road Site as the best possible location for a wireless facility.

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

In the area of Branford, which is the subject of this site search, there are no existing towers, transmission line structures or other suitable structures. Moreover, any existing towers are too far from the target area to provide coverage specifically to the target area. The nearest towers and suitable structures are already in use by T-Mobile. There are no large areas of commercial or industrial use in or near the target area. Finally, the Site abuts the Amtrak Rail Line, which is a component of the coverage goal.

The locations considered and the reasons locations other than the proposed Pine Orchard Road Site were not selected are outlined below:

1. Pine Orchard Firehouse, 180 Pine Orchard Road. This is a small commercial property (1.08 acres) with a one story volunteer firehouse located on it. The property is leased from the Town of Branford by the Volunteer Fire Department Association. The Association is unwilling to enter into a lease agreement with T-Mobile. Even if the Association was amenable to such an agreement, this site would also require a new tower since there are no suitable existing structures on the property.

2. Shoreline Pet Lodge, 157 Pine Orchard. This site contains no suitable existing structures; therefore, T-Mobile would have to construct a new tower on this property. After reviewing this proposed site, T-Mobile determined that the Pine Orchard Road Site would be preferable from a technical standpoint, as the proposed Site provides better RF coverage to the Amtrak Rail Line.

3. Tabor Property (Town-owned parcel). This property is a large parcel located just south of the Amtrak Rail Line. T-Mobile met with representatives of the Town of Branford and learned that the Town is interested in developing this parcel in the future. Possible development could include recreational facilities (such as baseball fields) or a police station. The land is currently vacant and the Town's development timeline puts development several years into the future. Accordingly, this parcel is not a viable alternative for T-Mobile to locate a new tower facility.

As a result, T-Mobile has determined that the property owned by Malavasi Investments LLC at 123 Pine Orchard Road (the "Property") is superior to other properties in the area. The Property is zoned R3 and is 4.15 acres. Access to the Site is across an existing driveway on the Property, and through an existing gravel parking lot on 121 Pine Orchard Road, an adjacent property owned by Malavasi Investments LLC. The Property is currently used as a storage facility and garage for truck trailers. As the property is developed, only one tree would need to be removed to site the Facility. It is also set back approximately 600' from Pine Orchard Road, with excellent screening from mature trees. AT&T Wireless has expressed an interest to co-locate on the proposed Facility.

SECTION 3

PROPOSED SITE

**123 Pine Orchard Road
Branford, Connecticut**

Land of
Malavasi Investments LLC

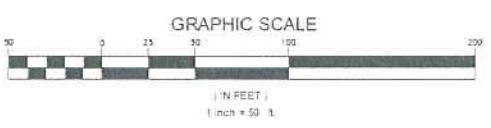
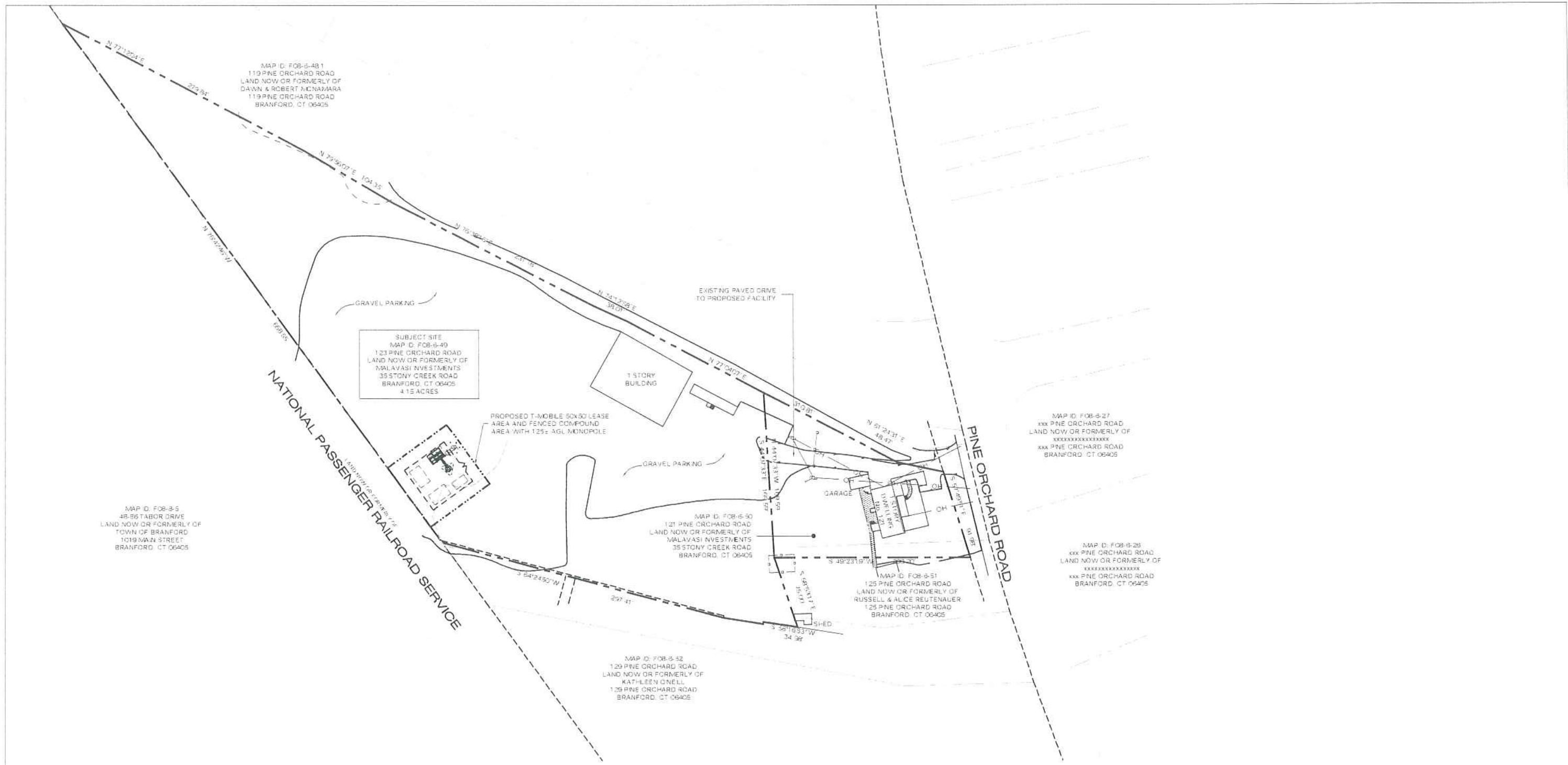
Assessor's Parcel ID
Map 8/Block 6/Block 49
4.15 Acres

GENERAL FACILITY DESCRIPTION

The proposed Pine Orchard Road Site is a 2,500 square foot leased area located in the south easterly portion of an approximately 4.15 acre parcel at 123 Pine Orchard Road in Branford. The Property is used by the owner as a storage facility and garage for truck trailers. The Facility would consist of a 125 ft monopole structure with antennas mounted on standoff arms. The monopole would accommodate 4 sets of antennas.

Related equipment cabinets would be placed within the compound in the center of the leased area. The equipment would be surrounded by an 8 ft high chain link fence. Vehicle access to the Site would extend westerly across the Property via an existing driveway, and through an existing gravel parking lot on 121 Pine Orchard Road, an adjacent property owned by Malavasi Investments LLC. Underground utility connections would extend from existing service originating at Pine Orchard Road.

ATTACHMENT B

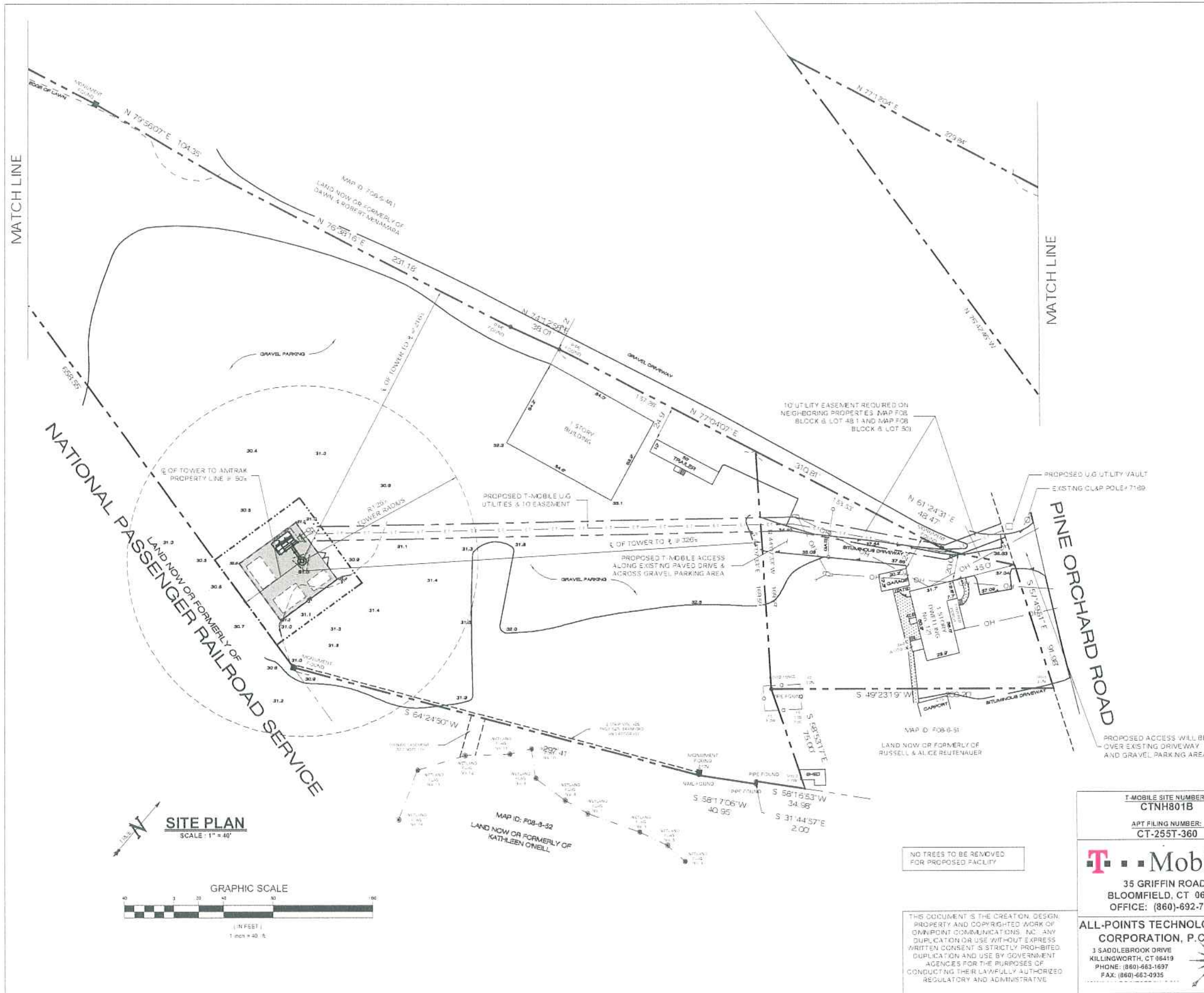


ABUTTERS MAP
SCALE: 1" = 50'



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T-MOBILE SITE NUMBER: CTNH801B APT FILING NUMBER: CT-255T-360 35 GRIFFIN ROAD BLOOMFIELD, CT 06002 OFFICE: (860)-692-7100	PERMITTING DOCUMENTS AMTRAK BRANFORD 123 PINE ORCHARD ROAD BRANFORD, CT 06405-3939 DESIGN TYPE: RAW LAND REVISIONS: REV. 0: 05/15/09: FOR REVIEW: SMC REV. 1: 05/20/09: FOR REVIEW: SMC REV. 2: 05/26/09: FINAL REV. 3: REV. 4:	ABUTTERS MAP APT FILING NUMBER: CT-255T-360 APT DRAWING NUMBER: CTNH810B A-1.DWG DRAWN BY: RCB CHECKED BY: SMC SCALE: AS NOTED DATE: 04/22/09 SHEET NUMBER: A-1
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LEGEND			
	CURB		DRAINAGE INLET/STRUCTURE
	DROP CURB		CATCH BASIN
	WALL		SIGN
	STONE WALL		LIGHT POLE
	EDGE OF PAVEMENT		UTILITY POLE
	OVERHEAD WIRES		STOCKADE FENCE
	STRUCTURE - MANHOLE		CONTOURS
	GAS VALVE		TOP-BOTTOM OF CURB
	WATER VALVE		SPOT ELEVATION
	HANDICAP PARKING		CONCRETE
	PARKING STALL COUNT		GUY WIRE

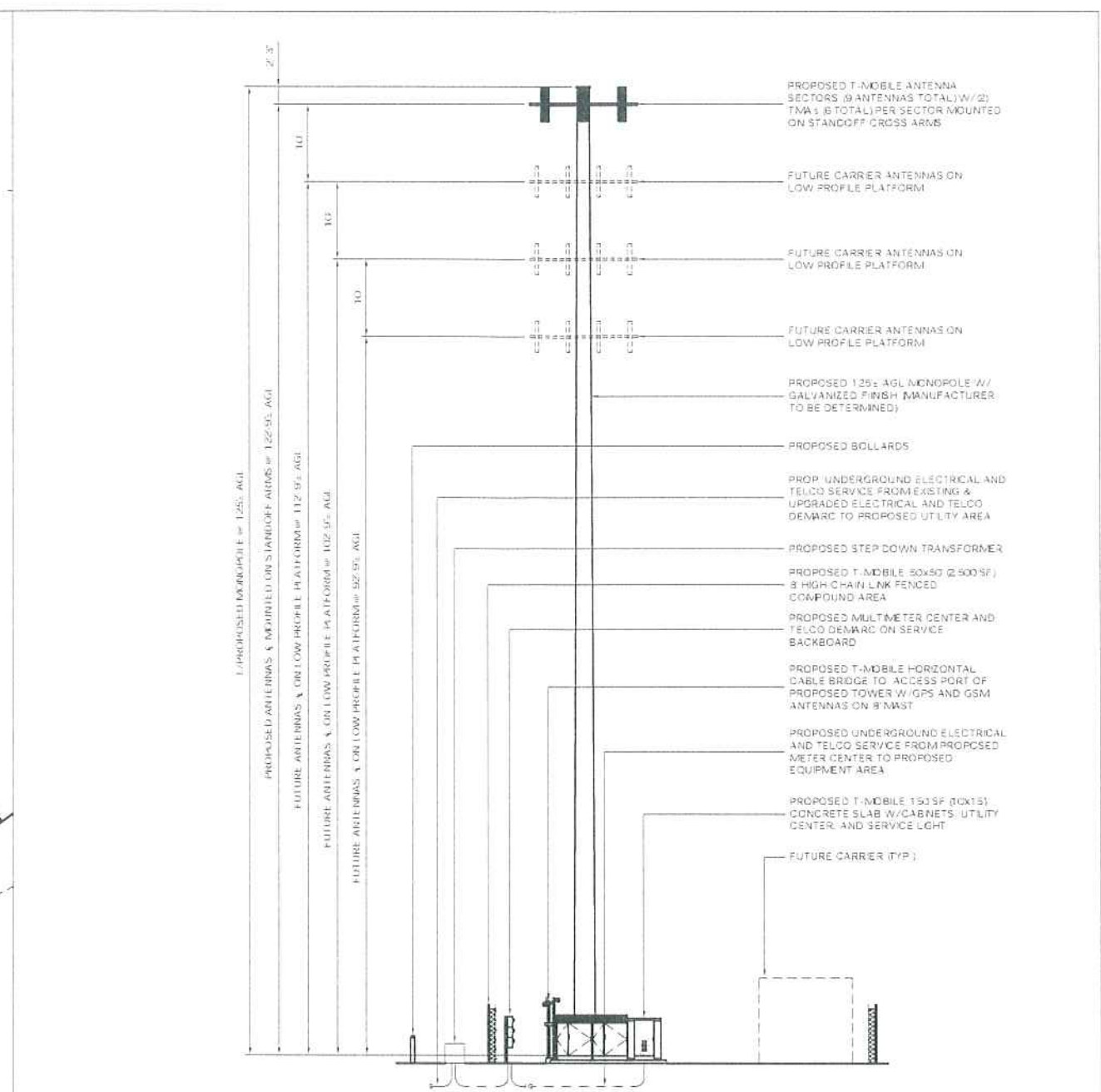
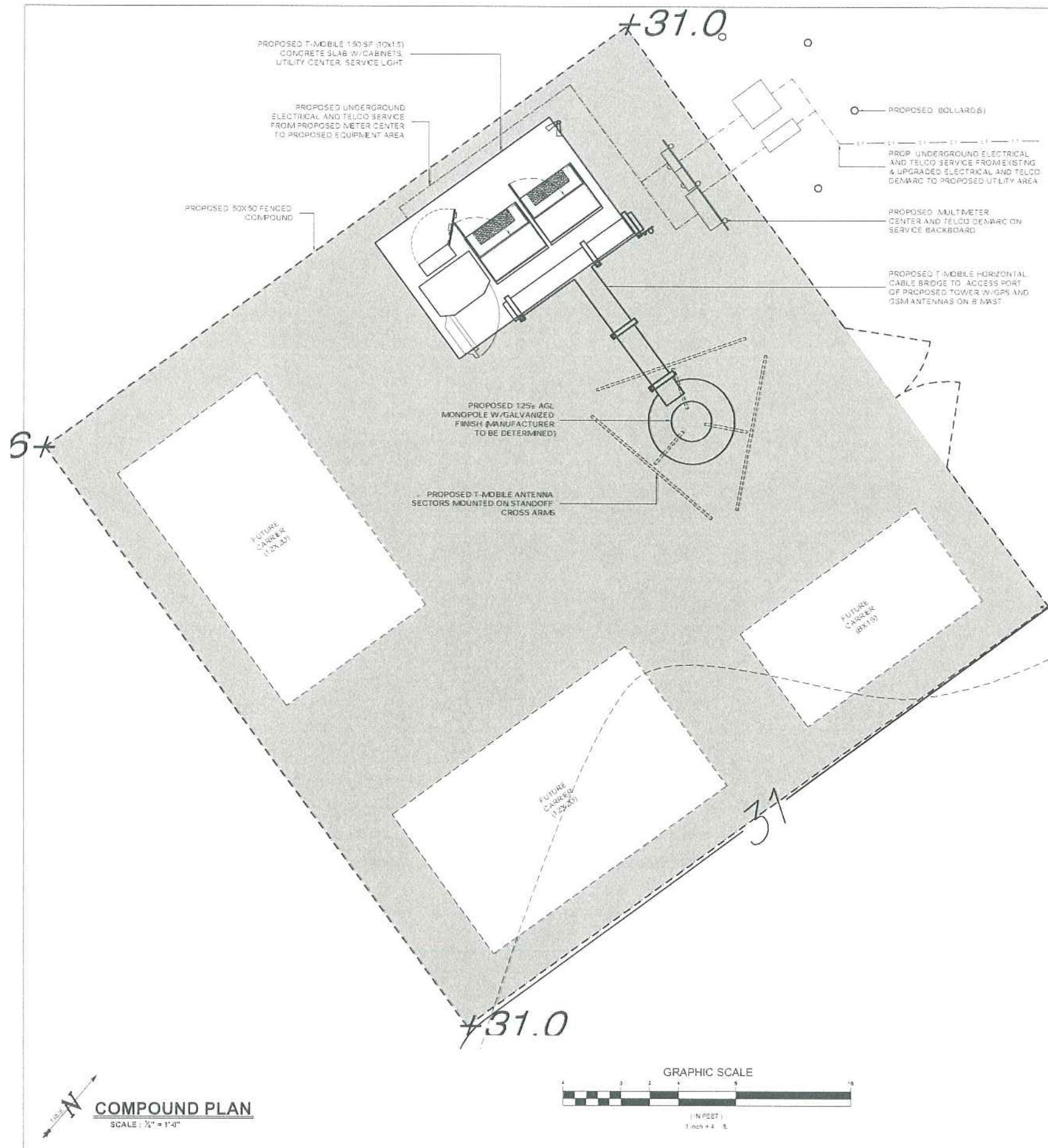
- NOTES**
- THIS MAP AND SURVEY HAVE BEEN PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 30-300b-1 THROUGH 30-300b-30 AND THE STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT AS ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON SEPTEMBER 26, 1996.
 - THE TYPE OF SURVEY PERFORMED AND THE MAPPED FEATURES DEPICTED HEREON ARE IN ACCORDANCE WITH THE REQUIREMENTS OF A PROPERTY SURVEY.
 - BOUNDARY DETERMINATION CATEGORY: DEPENDENT RESURVEY OF REFERENCE MAP A.
 - HORIZONTAL ACCURACY CLASS: A-2.
 - VERTICAL ACCURACY CLASS: T-3. ELEVATIONS REFER TO NATIONAL GEODETIC VERTICAL DATUM 1929. TOPOGRAPHIC INFORMATION IS DEPICTED ONLY FOR A PORTION OF THE PROPERTY.
 - LOT AREA = 180,986 SQUARE FEET OR 4.1249 ACRES.
 - ALL MONUMENTATION FOUND OR SET ON THE SUBJECT PREMISES IS DEPICTED HEREON.
 - NORTH ARROW AND BEARINGS REFER TO REFERENCE MAP A.
 - REFERENCE MAPS:
 - A) MAP OF PROPERTIES OF BARBARA A. PRITEPA #121 PINE ORCHARD ROAD & ANTHONY GORDANO #123 PINE ORCHARD ROAD, BRANFORD, CONNECTICUT, PREPARED BY WOODWORTH ASSOCIATES, P.C. DATED 10/11/02, REVISED 11/30/02, AND FILED WITH THE BRANFORD TOWN CLERK AS MAP NUMBER 3170.
 - B) PROPOSED DIVISION OF FRANK T. & SANDRA M.J. DANATO LOCATED AT 117 PINE ORCHARD ROAD, BRANFORD, CT, PREPARED BY ASSOCIATED SURVEYS, DATED MARCH 17, 1992, REVISED AUGUST 10, 1995, AND FILED WITH THE BRANFORD TOWN CLERK AS MAP NUMBER 2728.
 - C) PROPERTY TO BE CONVEYED TO ANTHONY & HELEN GORDANO FROM VINCENT DOMKOWSKI, PINE ORCHARD ROAD, BRANFORD, CT, PREPARED BY S.A. HANCHRUCK, JR. DATED MARCH 25, 1987, AND FILED AS MAP NUMBER 2111 WITH THE BRANFORD TOWN CLERK.
 - THE PROPERTY IS SUBJECT TO:
 - A) AN EASEMENT IN FAVOR OF TAX LOT 49 OVER TAX LOT 50 RECORDED IN VOLUME 866AT PAGE 925 OF THE BRANFORD LAND RECORDS (BLR).
 - B) RIGHTS GRANTED TO THE SOUTHERN NEW ENGLAND TELEPHONE COMPANY RECORDED IN VOL. 49AT PAGE 431 OF THE BLR.
 - C) TAX LOT 49 IS TOGETHER WITH A) AN EASEMENT TO DRAIN & DISCHARGE WATER ACROSS A 10' STRIP OF LAND TO THE POND ON TAX LOT 52 FORMERLY OF DOMKOWSKI (SEE VOL. 425 PAGE 330 OF THE BLR, REFERENCE MAP C). LOCATION SCALED FROM REFERENCE MAP, NO DIMENSIONS GIVEN. B) THE RIGHT TO PASS AND REPASS OVER TAX LOT 50 AS RECORDED IN VOLUME 866AT PAGE 925 OF THE BLR.
 - PARCEL OWNER OF RECORD: MALAYAS INVESTMENTS, 35 STONY CREEK ROAD, BRANFORD, CT.
 - WETLAND FLAGS SET BY VANASSE HANGEN BRUSTLIN, INC.
 - THE OFFSETS OR DIMENSIONS SHOWN FROM STRUCTURES TO THE PROPERTY LINES ARE FOR A SPECIFIC PURPOSE AND USE. THEY ARE NOT INTENDED TO GUIDE IN THE ERECTION OF FENCES, RETAINING WALLS, POOLS, PATIOS, PLANTING AREAS, ADDITIONS TO BUILDINGS, OR ANY OTHER CONSTRUCTION.
 - SUBSURFACE AND ENVIRONMENTAL CONDITIONS WERE NOT EXAMINED OR CONSIDERED AS PART OF THIS SURVEY.

T-Mobile 35 GRIFFIN ROAD BLOOMFIELD, CT 06002 OFFICE: (860)-692-7100	T-MOBILE SITE NUMBER: CTNH801B APT FILING NUMBER: CT-255T-360	PERMITTING DOCUMENTS AMTRAK BRANFORD 123 PINE ORCHARD ROAD BRANFORD, CT 06405-3939	SITE PLAN
	DESIGN TYPE: RAW LAND	REVISIONS: REV. 0: 05/15/09: FOR REVIEW: SMC REV. 1: 05/20/09: FOR REVIEW: SMC REV. 2: 05/26/09: FINAL REV. 3: REV. 4:	APT FILING NUMBER: CT-255T-360 APT DRAWING NUMBER: CTNH810B SP-1 DRAWN BY: RCB CHECKED BY: SMC SCALE: AS NOTED DATE: 04/22/09

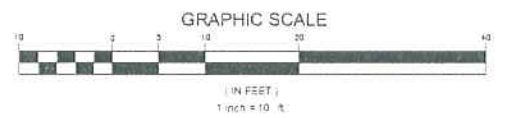
NO TREES TO BE REMOVED FOR PROPOSED FACILITY

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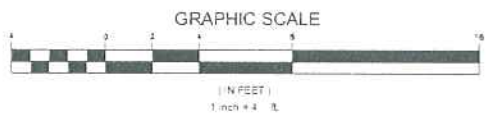




WESTERN ELEVATION
SCALE: 1" = 10'-0"



COMPOUND PLAN
SCALE: 1/4" = 1'-0"



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T-MOBILE SITE NUMBER: CTNH801B APT FILING NUMBER: CT-255T-360		PERMITTING DOCUMENTS AMTRAK BRANFORD 123 PINE ORCHARD ROAD BRANFORD, CT 06405-3939		COMPOUND PLAN & TOWER ELEVATION	
 35 GRIFFIN ROAD BLOOMFIELD, CT 06002 OFFICE: (860)-692-7100		DESIGN TYPE: RAW LAND		APT FILING NUMBER: CT-255T-360 APT DRAWING NUMBER: CTNH810B SP-1.DWG	
		REVISIONS: REV. 3: 05/15/09: FOR REVIEW: SMC REV. 1: 05/20/09: FOR REVIEW: SMC REV. 2: 05/26/09: FINAL REV. 3: REV. 4:		DRAWN BY: AAJ CHECKED BY: SMC DATE: 04/22/09	
ALL-POINTS TECHNOLOGY CORPORATION, P.C. 3 SADDLEBROOK DRIVE KILLINGWORTH, CT 06419 PHONE: (860)-663-1697 FAX: (860)-663-0935		SHEET NUMBER: SP-2			

SITE EVALUATION REPORT

I. LOCATION

- A. COORDINATES: 41°16'29.50" N
72°47'35.08" W
- B. GROUND ELEVATION: 31'± AMSL
- C. USGS MAP: USGS 7.5 quadrangle for Branford (1984)
- D. SITE ADDRESS: 123 Pine Orchard Road
Branford, CT 06405
- E. ZONING WITHIN ¼ MILE OF SITE: Property to the north, east and west is zoned residential and property to the south is zoned general industrial.

II. DESCRIPTION

- A. SITE SIZE: 50' x 50'
- B. TOWER TYPE/HEIGHT: 125' Monopole
- C. SITE TOPOGRAPHY AND SURFACE: Subject site is located in an existing gravel parking lot for a trucking company. Topography is generally flat, sloping slightly from east to west.
- D. SURROUNDING TERRAIN, VEGETATION, WETLANDS, OR WATER: Existing terrain is a gravel parking area abutting the Amtrak right of way. There is an existing wetland area located approximately 170' east of the proposed Facility.
- E. LAND USE WITHIN ¼ MILE OF SITE: Single family residential to the north, east and west. Amtrak right of way and vacant land to the south.

III. FACILITIES

- A. POWER COMPANY: CL&P
- B. POWER PROXIMITY TO SITE: 525'±
- C. TELEPHONE COMPANY: AT&T
- D. PHONE SERVICE PROXIMITY: 525'±
- E. VEHICLE ACCESS TO SITE: Existing bituminous driveway and gravel parking area.
- F. OBSTRUCTION: N/A
- G. CLEARING AND FILL REQUIRED: Total area of disturbance = 8,225 sf. One tree will need to be removed. The site is balanced with approx. 50 cubic yards cut and 50 cubic yards of fill.

IV. LEGAL

- A. PURCHASE [] LEASE [X]
- B. OWNER: Malavasi Investments, LLC
(d/b/a Ace Trucking)
- C. ADDRESS: 35 Stony Creek Road
Branford, CT
- D. DEED ON FILE AT: Book 802, Page 624

**FACILITIES AND EQUIPMENT SPECIFICATION
(TOWER & EQUIPMENT)**

I. TOWER SPECIFICATIONS:

- A. MANUFACTURER: TBD
- B. TYPE: Monopole
- C. HEIGHT: 125'
- D. DIMENSIONS: Approx 36" outer diameter at bottom x 21" outer diameter at top

II. TOWER LOADING:

- A. T-MOBILE
 - 1. ANTENNAS: Antenna array consists of three sectors, with 3 antennas per sector
 - 2. POSITION ON TOWER: 122'-9" Rad Center
 - 3. TRANSMISSION LINES: 18 lines
- B. FUTURE CARRIERS – 3 additional carriers; equipment TBD

III. ENGINEERING ANALYSIS AND CERTIFICATION:

In accordance with the 2005 Connecticut State Building Code and the Electronic Industries Association Standard EIA/TIA-222-F "Structural Standards for Steel Antenna Towers and Antenna Support Structures" for New Haven County, the tower would be designed to withstand pressures equivalent to a maximum 115 MPH wind. The foundation design would be based on soil conditions at the site.

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 Facility. No wetlands or watercourses were identified on the subject property in proximity to the proposed T-Mobile facility. The nearest wetland area consists of a man-made pond located approximately 150 feet from the proposed T-Mobile development on the adjoining parcel. No likely adverse impact to wetlands will result from the proposed development because of the significant distance separating the proposed T-Mobile facility from the nearest wetland area, the proposed Facility is located within an existing developed area and no mature vegetation will be disturbed. See attached Wetlands Compliance Letter. Finally, Best Management Practices will be implemented during construction to control storm water and erosion.

B. AIR QUALITY

Under ordinary operating conditions, the equipment that would be used at this Facility would emit no air pollutants of any kind. For limited periods during power outages, a portable generator might be utilized.

C. LAND

Minimal clearing and grading would be required for development of the proposed Site. One tree on the adjacent parcel will be will need to be removed or relocated to construct the tower and equipment area (proposed electric service). The remainder of the Property would remain unchanged by the construction and operation of the Site.

D. NOISE

The equipment to be in operation at the proposed Site after construction would emit no noise other than the installed heating, air conditioning and ventilation systems. A portable generator might be employed during power outages. Some noise is anticipated during Facility construction, which is expected to take approximately four to six weeks.

E. POWER DENSITY

The worst-case calculation of power density for operation of T-Mobile's antennas at the Facility would be approximately 6.975% of the applicable FCC/ANSI standards.

F. VISIBILITY

The potential visibility of the proposed Facility was assessed using a viewshed map (attached) with an approximate two-mile radius. As shown, the primary areas of visibility would occur over open water on Long Island Sound located to the south. The viewshed map indicates potential year-round views along select portions of Route 146, a state-designated scenic roadway, located roughly 0.60-mile to the southwest of the proposed Site. Other areas of anticipated visibility are located within the immediate vicinity of the proposed Site with additional areas located to the southwest, north and northeast.

II. SCENIC, NATURAL, HISTORIC & RECREATIONAL VALUES

The NEPA report for this site is pending and will be filed with the Certificate application. As is evident from the attached Low Potential Impact Letter, however, EBI has concluded that the proposed installation will not implicate any of the criteria as outlined in NEPA 1.1307(a) items (1) through (8) and preparation of an Environmental Assessment (EA) is not required (tribal consultation is pending). Further, based on EBI's preliminary review and archaeological assessment, even though tribal consultation is incomplete and SHPO concurrence has yet to be granted, there is a low potential that the proposed undertaking will impact Native American religious sites and historic resources.

ATTACHMENT C



Vanasse Hangen Brustlin, Inc.

54 Tuttle Place
Middletown, Connecticut 06457
860 632-1500
FAX 860 632-7879

Memorandum

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

Date: May 26, 2009

Project No.: 40505.07

From: Dean Gustafson
Professional Soil Scientist

Re: Wetland Compliance
T-Mobile Site No. CTNH801B
123 Pine Orchard Drive
Branford, Connecticut

Vanasse Hangen Brustlin, Inc. (VHB) previously completed on-site investigations to determine if wetlands and/or watercourses are located on the above-referenced Site.

The Site was inspected on April 22, 2009. The property is improved by a trailer storage company (ACE Trailer Leasing, Inc.) consisting of a trailer office building, maintenance building and large gravel parking lot occupied by numerous trailer storage units. Based on a review of plans prepared by All-Points Technology Corporation, P.C. (latest revised date 05/15/09) VHB understands that T-Mobile proposes to construct a wireless communications facility in the southeast corner of the subject property within an existing gravel parking lot. No wetlands or watercourses were identified on the subject property in proximity to the proposed T-Mobile facility. The nearest wetland resource area consists of a man-made pond identified by flag numbers WF 1 through 14 located approximately 150 feet from proposed T-Mobile development on the adjoining parcel. Due to the significant distance separating the proposed T-Mobile facility from the nearest wetland resource area, the proposed facility is located within an existing developed area and no mature vegetation will be disturbed, no likely adverse impact to wetlands will result from the proposed development.

Connecticut Market



Worst Case Power Density

Site: CTNH801B
Site Address: 123 Pine Orchard Road
Town: Branford
Tower Height: 125 ft.
Facility Style: Monopole

GSM Data		UMTS Data	
Base Station TX output	20 W	Base Station TX output	40 W
Number of channels	8	Number of channels	2
Antenna Model	APX16DWW-16DWW	Antenna Model	APX16DWW-16DWW
Cable Size	7/8 in.	Cable Size	7/8 in.
Cable Length	150 ft.	Cable Length	150 ft.
Antenna Height	122.0 ft.	Antenna Height	122.0 ft.
Ground Reflection	1.6	Ground Reflection	1.6
Frequency	1945.0 MHz	Frequency	2.1 GHz
Jumper & Connector loss	4.50 dB	Jumper & Connector loss	1.50 dB
Antenna Gain	18.0 dBi	Antenna Gain	18.0 dBi
Cable Loss per foot	0.0186 dB	Cable Loss per foot	0.0116 dB
Total Cable Loss	2.7900 dB	Total Cable Loss	1.7400 dB
Total Attenuation	7.2900 dB	Total Attenuation	3.2400 dB
Total EIRP per Channel (In Watts)	53.72 dBm 235.52 W	Total EIRP per Channel (In Watts)	60.78 dBm 1196.91 W
Total EIRP per Sector (In Watts)	62.75 dBm 1884.17 W	Total EIRP per Sector (In Watts)	63.79 dBm 2393.81 W
nsg	10.7100	nsg	14.7600
Power Density (S) = 0.030720 mW/cm ²		Power Density (S) = 0.039030 mW/cm ²	
T-Mobile Worst Case % MPE =		6.9750%	

Equation Used :

$$S = \frac{(1000)(grf)^2 (Power)^{10}}{4\pi (R)^2}$$

Office of Engineering and Technology (OET) Bulletin 65, Edition 97-01, August 1997

Co-Location Total

Carrier	% of Standard
Verizon	0.0000 %
Cingular	0.0000 %
Sprint	0.0000 %
AT&T Wireless	0.0000 %
Nextel	0.0000 %
MetroPCS	
Other Antenna Systems	0.0000 %
Total Excluding T-Mobile	0.0000 %
T-Mobile	6.9750
Total % MPE for Site	6.9750%

*Preliminary Viewshed Analysis
Proposed T-Mobile Wireless
Telecommunications Facility
CTNH801B
123 Pine Orchard Road
Branford, Connecticut*

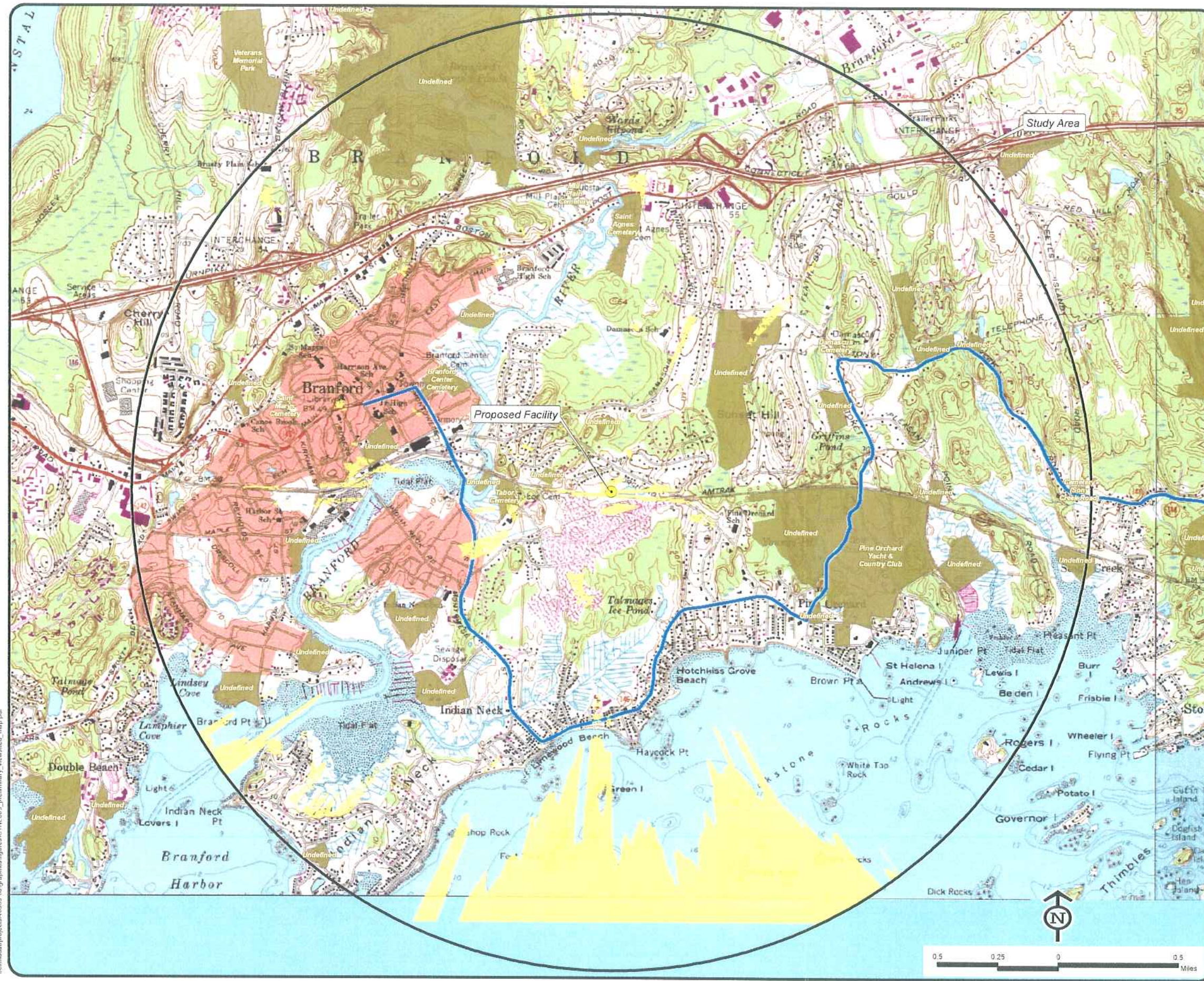
NOTE:
- Viewshed analysis conducted using ESRI's Spatial Analyst.
- Proposed Facility height is 100 feet.
- Existing tree canopy height estimated at 50 feet.
- Study Area is comprised of a two-mile radius surrounding the proposed facility and includes 8,042 acres of land.

DATA SOURCES:
- Digital elevation model (DEM) derived from Connecticut LiDAR-based Digital Elevation Data (collected in 2000) with a 10-foot spatial resolution produced by the University of Connecticut and the Center for Land Use Education and Research (CLEAR); 2007
- Forest areas derived from 2006 digital orthophotos with 1-foot pixel resolution; digitized by VHB, 2009
- Base map comprised of Branford (1984) and Guilford (1984) USGS Quadrangle Maps
- Protected municipal and private open space properties and federal protected properties and data layers provided by CT DEP, 1997
- Protected CT DEP properties data layer provided by CT DEP, May 2007
- CT DEP boat launches data layer provided by CT DEP, 1994
- Scenic Roads layer derived from available State and Local listings.

Map Compiled May, 2009

Legend

- | | |
|--|---|
|  Tower Location |  CT DEP Protected Properties (2007) |
|  Year-Round Visibility (Approximately 570 acres) | State Forest |
|  Protected Municipal and Private Open Space Properties (1997) | State Park |
| Cametery | DEP Owned Waterbody |
| Preservation | State Park Scenic Reserve |
| Conservation | Historic Preserve |
| Existing Preserved Open Space | Natural Area Preserve |
| Recreation | Fish Hatchery |
| General Recreation | Flood Control |
| School | Other |
| Uncategorized | State Park Trail |
| | Water Access |
| | Wildlife Area |
| | Wildlife Sanctuary |
| |  Federal Protected Properties (1997) |
| |  CT DEP Boat Launches (1994) |
| |  Scenic Road (State and Local) |
| |  Town Line |



C:\schmidtd\projects\40505\fig\graphics\figures\CTNH801B_preliminary_viewshed_map.pdf

May 21, 2009

Ms. Jamie Ford
Project Coordinator
HPC Development, LLC
53 Lake Ave Ext.
Danbury, CT 06811

Subject: National Environmental Policy Act (NEPA) - Letter of Low Potential Impact
Amtrak Branford/ CTNH801B
123 Pine Orchard Road, Branford, CT
EBCI Project #61087701

Dear Ms. Ford:

Attached please find our *National Environmental Policy Act (NEPA)* Letter of Low Potential Impact for the proposed telecommunications installation at the address noted above (the Subject Property). The purpose of this letter is to evaluate the above-referenced property for potential environmental and historical concerns specified by the Federal Communications Commission (FCC) in 47 CFR 1.1307.

As of the date of this Report, T-Mobile, USA proposes to construct a 125-foot monopole-style telecommunications tower and to collocate 9 antennas at a centerline height of 122 feet-9 inches above ground level on the proposed tower. T-Mobile USA also proposes to place equipment cabinets on a 10-foot by 15-foot concrete slab within the 50-foot by 50-foot fenced compound within a 75-foot by 75-foot leased area. T-Mobile USA will run utility conduits underground commencing from the Subject Property paved parking lot traversing south toward the Project Site.

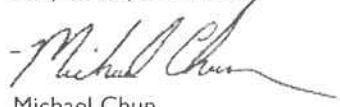
Based upon the results of our preliminary NEPA screening, it appears that the proposed installation will not impact any of the criteria as outlined in 1.1307(a) items (1) through (8) and preparation of an Environmental Assessment (EA) is not required. However, our Native American Indian consultation required under Section 1.1307(a) (5) of the FCC Rules is incomplete. Although EBCI has submitted 4 requests to the Narragansett Indian Tribe, the Narragansett Indian Tribe has not responded after their notification initiating consultation and review of cell tower site designated by TCNS # 47195. Of importance, based our historic review, it appears that development during the recent past has likely impacted the local soil deposits within the Area of Potential Effect to a substantial degree. As a result, it is unlikely that intact cultural deposits are situated within the proposed project area.

In addition, the Connecticut Historic Preservation Office has yet to grant concurrence that the proposed undertaking will have no adverse effect on historic resources. Of importance, based on a review of the files available at the University of Connecticut's Dodd Research Center conducted by Heritage Consultants, Inc., on January 5, 2009, no historic properties were identified within the APE for visual effects.

Based on our preliminary review and archaeological assessment, even though tribal consultation is incomplete and SHPO concurrence has yet to be granted, there is a low potential that the proposed undertaking will impact Native American religious sites and historic resources.

Please call us if you have any questions or if we may be of further assistance.

Respectfully Submitted,



Michael Chun
Program Director
Direct# (646) 789-9206