



**WETLANDS DELINEATION REPORT**

*Vanasse Hangen Brustlin, Inc.*

**Date:** May 15, 2009  
**Project No.:** 40505.05  
**Prepared For:** Mr. Scott Chasse  
All-Points Technology Corp., P.C.  
3 Saddlebrook Drive  
Killingworth, Connecticut 06419  
**Site Location:** T-Mobile Site No. CTNL310 – 23 Stonybrook Road  
23 Stonybrook Road  
Stratford, Connecticut  
**Site Map:** VHB Wetland Sketch on APT Site Plan, 04/22/09  
**Inspection Date:** April 22, 2009  
**Field Conditions:** Weather: rain, low 50's      General Soil Moisture: moist  
Snow Depth: none      Frost Depth: none

**Type of Wetlands Identified and Delineated:**

Connecticut Inland Wetlands and Watercourses        
Connecticut Tidal Wetlands        
U.S. Army Corps of Engineers     

**Local Inland Wetland Regulated Upland Review Areas:** Wetlands: 50 feet      Watercourses: 50 feet

**Field Numbering Sequence of Wetlands Boundary:** WF 1 - 11  
*[as depicted on attached wetland sketch map]*

*The classification systems of the National Cooperative Soil Survey, the U.S. Department of Agriculture, Natural Resources Conservation Service, County Soil Survey Identification Legend, Connecticut Department of Environmental Protection and United States Army Corps of Engineers New England District were used in this investigation.*

*All established wetlands boundary lines are subject to change until officially adopted by local, state, or federal regulatory agencies.*

The wetlands delineation was conducted and reviewed by:

Dean Gustafson  
Professional Soil Scientist

Enclosures

# Attachments



- 
- Wetland Delineation Field Form
  - Soil Map
  - Soil Report
  - Wetland Delineation Sketch Map

### Wetland Delineation Field Form

Project Address:	23 Stonybrook Road Stratford, CT	Project Number:	40505.05
Inspection Date:	4/22/09	Inspector:	Dean Gustafson, PSS
Wetland I.D.:	Wetland 1		

Field Conditions:	Weather: rain, low 50's	Snow Depth: none
	General Soil Moisture: moist	Frost Depth: none
Type of Wetland Delineation:	CT Inland <input checked="" type="checkbox"/>	
	CT Tidal <input type="checkbox"/>	
	ACOE <input type="checkbox"/>	
Field Numbering Sequence: WF 1 to 11		

**WETLAND HYDROLOGY:**

**NONTIDAL**

Regularly Flooded <input type="checkbox"/>	Irregularly Flooded <input type="checkbox"/>	Permanently Flooded <input type="checkbox"/>
Semipermanently Flooded <input type="checkbox"/>	Seasonally Flooded <input checked="" type="checkbox"/>	Temporarily Flooded <input type="checkbox"/>
Permanently Saturated <input type="checkbox"/>	Seasonally Saturated – seepage <input type="checkbox"/>	Seasonally Saturated - perched <input type="checkbox"/>
Comments:		

**TIDAL**

Subtidal <input type="checkbox"/>	Regularly Flooded <input type="checkbox"/>	Irregularly Flooded <input type="checkbox"/>
Seasonally Flooded <input type="checkbox"/>	Temporarily Flooded <input type="checkbox"/>	
Comments: N/A		

**WETLAND TYPE:**

**SYSTEM:**

Estuarine <input type="checkbox"/>	Riverine <input checked="" type="checkbox"/>	Palustrine <input type="checkbox"/>
Lacustrine <input type="checkbox"/>	Marine <input type="checkbox"/>	
Comments:		

**CLASS:**

Emergent <input checked="" type="checkbox"/>	Scrub-shrub <input checked="" type="checkbox"/>	Forested <input checked="" type="checkbox"/>
Open Water <input type="checkbox"/>	Disturbed <input type="checkbox"/>	Wet Meadow <input type="checkbox"/>
Comments:		

**WATERCOURSE TYPE:**

Perennial <input checked="" type="checkbox"/>	Intermittent <input type="checkbox"/>	Tidal <input type="checkbox"/>
Comments: Bruce Brook flows southwest through the site in a steeply incised stone armored channel		

**SPECIAL AQUATIC HABITAT:**

Vernal Pool <input type="checkbox"/>	Other <input type="checkbox"/>	
Comments: N/A		

**Wetland Delineation Field Form (Cont.)**

**MAPPED SOILS:**

SOIL SERIES (Map Unit Symbol)	WET	UP	NRCS MAPPED	FIELD IDD/ CONFIRMED
Sutton-Urban Land complex (250)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Urban Land (307)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Water (W)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

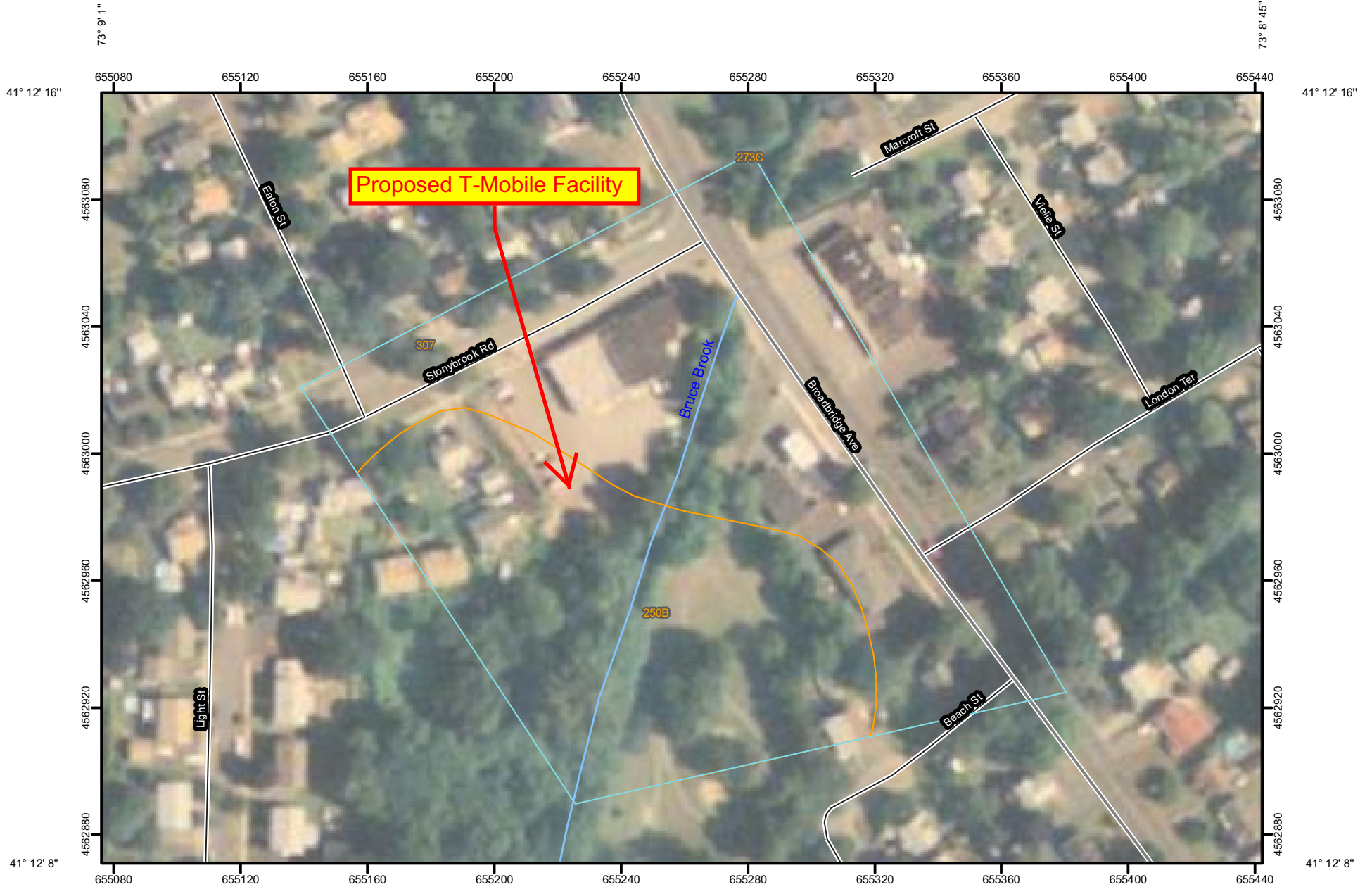
**DOMINANT PLANTS:**

red maple ( <i>Acer rubrum</i> )	Norway maple ( <i>Acer platanoides</i> )
black cherry ( <i>Prunus serotina</i> )	buttonbush ( <i>Cephalanthus occidentalis</i> )
black locust ( <i>Robinia pseudoacacia</i> )	silky dogwood ( <i>Cornus amomum</i> )
multiflora rose ( <i>Rosa multiflora</i> )	speckled alder ( <i>Alnus rugosa</i> )
fox grape ( <i>Vitis labrusca</i> )	gray birch ( <i>Betula populifolia</i> )
garlic mustard ( <i>Alliaria petiolata</i> )	Japanese knotweed ( <i>Polygonum cuspidatum</i> )
black willow ( <i>Salix nigra</i> )	

**WETLAND NARRATIVE:**

Wetland 1 is characterized as the top of eroded bank of Bruce Brook. No bordering wetlands were identified on the subject property. The subject property consists of a commercial retail building and paved parking area. The proposed T-Mobile Facility is located in the southwest corner of the parking lot. Bruce Brook is characterized as a steeply incised fill embanked channel that contains some areas of stone armoring. The property's development extends up to the top of bank to Bruce Brook resulting in minimal vegetative cover buffering the stream. The banks of the perennial stream are dominated by red maple (*Acer rubrum*), black cherry (*Prunus serotina*), black locust (*Robinia pseudoacacia*), fox grape (*Vitis labrusca*), black willow (*Salix nigra*), gray birch (*Betula populifolia*), speckled alder (*Alnus rugosa*), silky dogwood (*Cornus amomum*), and buttonbush (*Cephalanthus occidentalis*). Invasive species are also contained within the vegetated banks of the stream reflecting the disturbed nature (fill embankments) of the stream. Invasive species identified include Japanese knotweed (*Polygonum cuspidatum*), garlic mustard (*Alliaria petiolata*), multiflora rose (*Rosa multiflora*), and Norway maple (*Acer platanoides*).

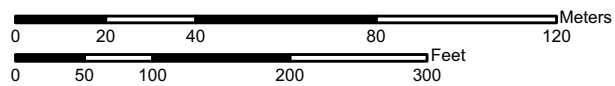
Soil Map—State of Connecticut  
(23 Stonybrook Road, Stratford, CT)



73° 9' 1"




Map Scale: 1:1,740 if printed on A size (8.5" x 11") sheet.



## MAP LEGEND






















### Area of Interest (AOI)




 Area of Interest (AOI)

### Soils




 Soil Map Units

### Special Point Features

-  Blowout
-  Borrow Pit
-  Clay Spot
-  Closed Depression
-  Gravel Pit
-  Gravelly Spot
-  Landfill
-  Lava Flow
-  Marsh or swamp
-  Mine or Quarry
-  Miscellaneous Water
-  Perennial Water
-  Rock Outcrop
-  Saline Spot
-  Sandy Spot
-  Severely Eroded Spot
-  Sinkhole
-  Slide or Slip
-  Sodic Spot
-  Spoil Area
-  Stony Spot

-  Very Stony Spot
-  Wet Spot
-  Other



### Special Line Features

-  Gully
-  Short Steep Slope
-  Other






### Political Features

-  Cities

### Water Features

-  Oceans
-  Streams and Canals

### Transportation

-  Rails
-  Interstate Highways
-  US Routes
-  Major Roads
-  Local Roads

## MAP INFORMATION

Map Scale: 1:1,740 if printed on A size (8.5" × 11") sheet.

The soil surveys that comprise your AOI were mapped at 1:12,000.

Please rely on the bar scale on each map sheet for accurate map measurements.

Source of Map: Natural Resources Conservation Service  
 Web Soil Survey URL: <http://websoilsurvey.nrcs.usda.gov>  
 Coordinate System: UTM Zone 18N NAD83

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: State of Connecticut  
 Survey Area Data: Version 6, Mar 22, 2007

Date(s) aerial images were photographed: 8/14/2006

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

## Map Unit Legend

State of Connecticut (CT600)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
250B	Sutton-Urban land complex, 0 to 8 percent slopes	2.9	43.1%
273C	Urban land-Charlton-Chatfield complex, rocky, 3 to 15 percent slopes	0.0	0.0%
307	Urban land	3.9	56.9%
<b>Totals for Area of Interest</b>		<b>6.8</b>	<b>100.0%</b>



## Map Unit Description (Brief)

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the selected area. The map unit descriptions in this report, along with the maps, can be used to determine the composition and properties of a unit. A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

The "Map Unit Description (Brief)" report gives a brief, general description of the major soils that occur in a map unit. Descriptions of nonsoil (miscellaneous areas) and minor map unit components may or may not be included. This description is written by the local soil scientists responsible for the respective soil survey area data. A more detailed description can be generated by the "Map Unit Description" report.

Additional information about the map units described in this report is available in other Soil Data Mart reports, which give properties of the soils and the limitations, capabilities, and potentials for many uses. Also, the narratives that accompany the Soil Data Mart reports define some of the properties included in the map unit descriptions.

## Report—Map Unit Description (Brief)

### State of Connecticut

**Description Category:** SOI

**Map Unit:** 250B—Sutton-Urban land complex, 0 to 8 percent slopes



Sutton-Urban Land Complex, 0 To 8 Percent Slopes This map unit is in the New England and Eastern New York Upland, Southern Part Major Land Resource Area. The mean annual precipitation is 37 to 49 inches (940 to 1244 millimeters) and the average annual air temperature is 45 to 52 degrees F. (7 to 11 degrees C.) This map unit is 40 percent Sutton soils, 35 percent Urban Land, 25 percent minor components. Sutton soils This component occurs on upland hill landforms. The parent material consists of melt-out till derived from schist, gneiss, and granite. The slope ranges from 0 to 8 percent and the runoff class is very low. The depth to a restrictive feature is greater than 60 inches. The drainage class is moderately well drained. The slowest permeability within 60 inches is about 0.57 in/hr (moderate), with about 7.5 inches (high) available water capacity. The weighted average shrink-swell potential in 10 to 60 inches is about 1.5 LEP (low). The flooding frequency for this component is none. The ponding hazard is none. The minimum depth to a seasonal water table, when present, is about 24 inches. The maximum calcium carbonate within 40 inches is none. The maximum amount of salinity in any layer is about 0 mmhos/cm (nonsaline). The Nonirrigated Land Capability Class is 2w Typical Profile: 0 to 6 inches; fine sandy loam 6 to 12 inches; fine sandy loam 12 to 24 inches; fine sandy loam 24 to 28 inches; fine sandy loam 28 to 36 inches; gravelly fine sandy loam 36 to 65 inches; gravelly sandy loam Urban Land Urban land is land mostly covered by streets, parking lots, buildings, and other structures of urban areas. The slope ranges from 0 to 8 percent and the runoff class is very high. The Nonirrigated Land Capability Class is 8

**Map Unit:** 273C—Urban land-Charlton-Chatfield complex, rocky, 3 to 15 percent slopes

Urban Land-Charlton-Chatfield Complex, Rocky, 3 To 15 Percent Slopes This map unit is in the New England and Eastern New York Upland, Southern Part Major Land Resource Area. The mean annual precipitation is 37 to 49 inches (940 to 1244 millimeters) and the average annual air temperature is 45 to 52 degrees F. (7 to 11 degrees C.) This map unit is 35 percent Urban Land, 25 percent Charlton soils, 15 percent Chatfield soils. 25 percent minor components. Urban Land Urban land is land mostly covered by streets, parking lots, buildings, and other structures of urban areas. The slope ranges from 3 to 15 percent and the runoff class is very high. The Nonirrigated Land Capability Class is 8 Charlton soils This component occurs on upland hill landforms. The parent material consists of melt-out till derived from granite, schist, and gneiss. The slope ranges from 3 to 15 percent and the runoff class is low. The depth to a restrictive feature is greater than 60 inches. The drainage class is well drained. The slowest permeability within 60 inches is about 0.57 in/hr (moderate), with about 6.4 inches (high) available water capacity. The weighted average shrink-swell potential in 10 to 60 inches is about 1.5 LEP (low). The flooding frequency for this component is none. The ponding hazard is none. The minimum depth to a seasonal water table, when present, is greater than 6 feet. The maximum calcium carbonate within 40 inches is none. The maximum amount of salinity in any layer is about 0 mmhos/cm (nonsaline). The Nonirrigated Land Capability Class is 3e Typical Profile: 0 to 4 inches; fine sandy loam 4 to 7 inches; fine sandy loam 7 to 19 inches; fine sandy loam 19 to 27 inches; gravelly fine sandy loam 27 to 65 inches; gravelly fine sandy loam Chatfield soils This component occurs on upland hill and ridge landforms. The parent material consists of melt-out till derived from gneiss, granite, and schist. The slope ranges from 3 to 15 percent and the runoff class is low. The depth to a restrictive feature is 20 to 40 inches to bedrock (lithic). The drainage class is well drained. The slowest permeability within 60 inches is about 0.57 in/hr (moderate), with about 3.3 inches (moderate) available water capacity. The weighted average shrink-swell potential in 10 to 60 inches is about 1.5 LEP (low). The flooding frequency for this component is none. The ponding hazard is none. The minimum depth to a seasonal water table, when present, is greater than 6 feet. The maximum calcium carbonate within 40 inches is none. The maximum amount of salinity in any layer is about 0 mmhos/cm (nonsaline). The Nonirrigated Land Capability Class is 3e Typical Profile: 0 to 1 inches; highly decomposed plant material 1 to 6 inches; gravelly fine sandy loam 6 to 15 inches; gravelly fine sandy loam 15 to 29 inches; gravelly fine sandy loam 29 to 36 inches; unweathered bedrock

**Map Unit:** 307—Urban land

Urban Land This map unit is in the New England and Eastern New York Upland, Southern Part Connecticut Valley Major Land Resource Area. The mean annual precipitation is 38 to 50 inches (965 to 1270 millimeters) and the average annual air temperature is 45 to 52 degrees F. (7 to 11 degrees C.) This map unit is 80 percent Urban Land. 20 percent minor components. Urban Land Urban land is land mostly covered by streets, parking lots, buildings, and other structures of urban areas. The slope ranges from 0 to 45 percent and the runoff class is very high. The Nonirrigated Land Capability Class is 8

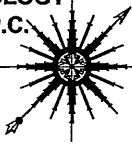
## Data Source Information

Soil Survey Area: State of Connecticut

Survey Area Data: Version 6, Mar 22, 2007

**ALL-POINTS TECHNOLOGY CORPORATION, P.C.**

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



**APT FILING NUMBER: CT-255T-430**

LE-1

SCALE: AS NOTED

DRAWN BY: AAJ

DATE: 03/06/09

CHECKED BY: SMC



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

**T-MOBILE SITE NUMBER:**  
CTFF310

23 STONYBROOK ROAD  
23 STONYBROOK ROAD  
STRATFORD, CT 06614

**NOTE:**  
PER FCC MANDATE, ENHANCED EMERGENCY (E911) SERVICE IS REQUIRED TO MEET NATIONWIDE STANDARDS FOR WIRELESS COMMUNICATIONS SYSTEMS. OMNIPOINT COMMUNICATIONS INC. IMPLEMENTATION REQUIRES DEPLOYMENT OF EQUIPMENT AND ANTENNAS GENERALLY DEPICTED ON THIS PLAN, ATTACHED TO OR MOUNTED IN CLOSE PROXIMITY TO THE BTS RADIO CABINETS. OMNIPOINT COMMUNICATIONS INC. RESERVES THE RIGHT TO MAKE REASONABLE MODIFICATIONS TO E911 EQUIPMENT AND LOCATION AS TECHNOLOGY EVOLVES TO MEET REQUIRED SPECIFICATIONS. ALL EQUIPMENT LOCATIONS ARE APPROXIMATE AND ARE SUBJECT TO APPROVAL BY OMNIPOINT COMMUNICATIONS INC. STRUCTURAL & RF ENGINEERS. LOCATIONS OF POWER & TELEPHONE FACILITIES ARE SUBJECT TO APPROVAL BY UTILITY COMPANIES.

EXISTING UI POLE  
NUMBER 2243

EXISTING UI POLE  
NUMBER 7270

STONYBROOK ROAD

EXISTING UI POLE NUMBER 9224 W/ EXISTING  
ELECTRICAL AND TELCO DEMARCS

*Can  
wing  
wall  
lg. box  
for  
culvert*

**WF I**

EXISTING  
PARKING AREA

EXIST  
BLDG

EXISTING/  
PROPERTY LINE

LOT 16

*PAVED  
PARKING*

EXISTING  
PARKING AREA LOT

LOT 13

LOT 12

SHELL  
GAS  
STATION

BROADBRIDGE AVENUE

*FENCE*

*BRUCE  
BROOK  
EXISTING BROOK  
TRAIL*

*BRUCE  
BROOK*

*PARK*

PLAN  
LE-2

*20" Red oak  
55' TALL*

VANASSE HANGEN BRUSTLIN INC.

WETLAND SKETCH

4/22/09 DEG

**SITE PLAN**  
SCALE: 1" = 40'-0"

**WF 1 to 11**

