



August 18, 2006

Vanasse Hangen Brustlin, Inc.

Ref: 40862.16

Ms. Sandy Carter
Verizon Wireless
99 East River Drive
East Hartford, CT 06108

Re: Wetland Inspection
Watertown West
Old Baird Road
Watertown, Connecticut

Dear Ms. Carter:

Vanasse Hangen Brustlin, Inc. (VHB) has completed on-site investigations to determine if wetlands and/or watercourses are located on the above-referenced Site. VHB has relied upon the accuracy of information provided by Verizon Wireless regarding the proposed lease area, access road, and utility easement locations for identifying wetlands and watercourses within and proximate to said locations.

VHB understands that Verizon Wireless proposes to construct a wireless telecommunication facility at Old Baird Road, Watertown, Connecticut (the "Site"). The facility will include an approximate 10,409 square foot fenced compound area that will house a 150-foot monopole and associated telecommunication equipment and structures. Access to the Site will be via a proposed 12-foot gravel access drive from Old Baird Road. No wetlands or watercourses were identified (or delineated) on the Site or within 100 feet of proposed development activities. The nearest wetland area is a small, narrow drainage ditch along the toe slope of a fill embankment associated with the transfer station west of Old Baird Road approximately 110 feet southwest of the proposed Site. Soils field classified in the vicinity of the proposed development are generally consistent with published data and consist of Canton and Charlton soils, which are well-drained deep glacial till soils. Therefore, the proposed development will not directly or indirectly affect wetlands or watercourses and will not have a significant adverse effect on wetland resources of the town of Watertown.

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

Very truly yours,

VANASSE HANGEN BRUSTLIN, INC.


Dean Gustafson
Professional Soil Scientist

cc: Alitz Abadjian, URS
Kenneth C. Baldwin, Robinson & Cole LLP
File



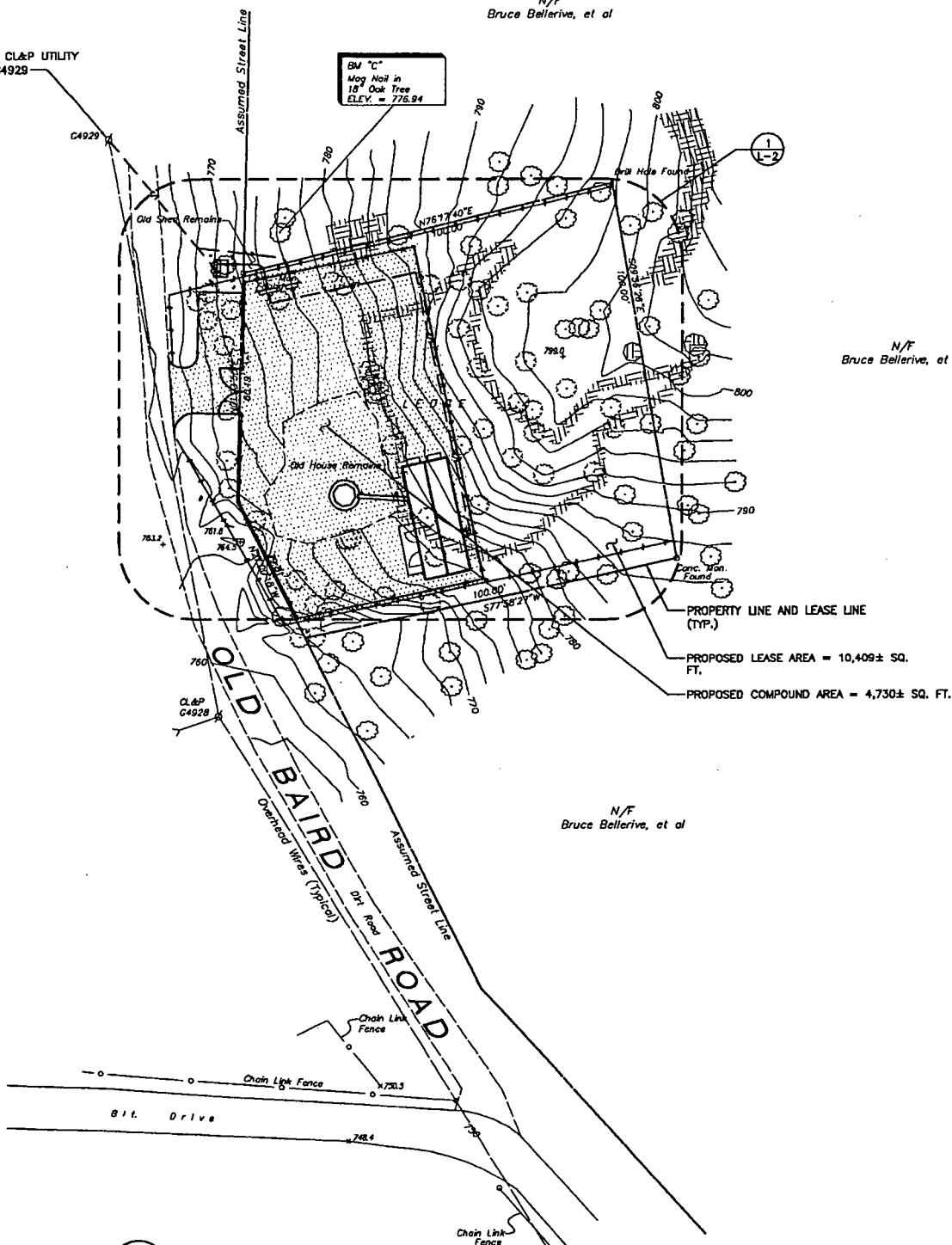
N/F
Bruce Bellerive, et al

N/F
Bruce Bellerive, et al

N/F
Bruce Bellerive, et al

EXISTING CL&P UTILITY
POLE #C4929

BM "C"
Mag Nail in
18" Oak Tree
ELEV. = 776.94



PROPERTY LINE AND LEASE LINE
(TYP.)
PROPOSED LEASE AREA = 10,409± SQ.
FT.
PROPOSED COMPOUND AREA = 4,730± SQ. FT.

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



OW NO:
36930895
Designed by:
RRH
Checked by:
Approved by:

URS CORPORATION
500 ENTERPRISE DRIVE
ROCKY HILL, CONNECTICUT
1-(860)-529-8882

CELLCO PARTNERSHIP DBA
VERIZON WIRELESS
WIRELESS COMMUNICATIONS FACILITY
SITE ADDRESS:
WATERTOWN WEST
OLD BAIRD ROAD
WATERTOWN, CONNECTICUT

REV.	DATE:	DESCRIPTION

Scale: _____ Date: 05-11-08
Job No. VZ1-170 File No. _____

Dwg. No.
L-1
Dwg. 1 of 3



WETLANDS DELINEATION REPORT

Vanasse Hangen Brustlin, Inc.

Date: January 19, 2007
Project No.: 41240.12
Prepared For: Ms. Alexandria Carter
Verizon Wireless
99 East River Drive
East Hartford, Connecticut 06108
Site Location: Watertown West Alternate 'B'
Old Baird Road
Watertown, Connecticut
Site Map: Wetland Sketch, 1/18/07, VHB
Inspection Date: January 18, 2007
Field Conditions: Weather: partly sunny, mid 30's General Soil Moisture: moist
Snow Depth: 0 inches Frost Depth: 0 inches

Type of Wetlands Identified and Delineated:

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

Local Regulated Upland Review Areas: Wetlands: 50 feet Watercourses: 50 feet

Field Numbering Sequence of Wetlands Boundary: WF1a-89 to WF1a-99/WF1-01 to WF1-12
[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 by: The wetlands delineation was conducted by:

Sara Fusco
Soil Scientist

Dean Gustafson
Professional Soil Scientist

Enclosures

54 Tuttle Place
Middletown, Connecticut 06457-1847
860.632.1500 ■ FAX 860.632.7879
email: info@vhb.com
www.vhb.com

Attachments

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

Wetland Delineation Field Form

Project Name:	Verizon - Waterbury West- Alternate 'B'	Project Number:	41240.12
Inspection Date:	1/18/07	Inspector:	SF
Wetland I.D.:	1/a		

Field Conditions:	Weather: overcast, mid 30's	Snow Depth:	0
	General Soil Moisture: moist	Frost Depth:	0
Type of Wetland Delineation:	Connecticut <input checked="" type="checkbox"/>		
	ACOE <input type="checkbox"/>		
	Tidal <input type="checkbox"/>		
Field Numbering Sequence: WFLA-89 to WFLA-99/WF1-01 to WF1-12			

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 type="checkbox"/>	Temporarily Flooded <input type="checkbox"/>
Permanently Saturated <input type="checkbox"/>	Seasonally Saturated - seepage <input checked="" 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 type="checkbox"/>	Palustrine <input checked="" type="checkbox"/>
Lacustrine <input type="checkbox"/>	Marine <input type="checkbox"/>	
Comments:		

Class

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

WATERCOURSE TYPE:

Upper Perennial <input type="checkbox"/>	Lower Perennial <input type="checkbox"/>	Intermittent <input checked="" type="checkbox"/>
Tidal <input type="checkbox"/>		
Comments:		

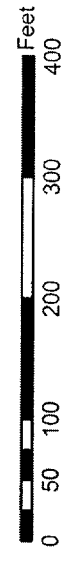
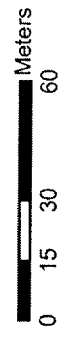
SPECIAL AQUATIC HABITAT:

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

DOMINANT PLANTS:

Red Maple	
Yellow Birch	
Black Birch	
Ash	
Spicebush	
Grape	
Multi-flora Rose	

SOIL SURVEY OF STATE OF CONNECTICUT



SOIL SURVEY OF STATE OF CONNECTICUT

MAP INFORMATION

Source of Map: Natural Resources Conservation Service
 Web Soil Survey URL: <http://websoilsurvey.nrcs.usda.gov>







































Coordinate System: UTM Zone 18

Soil Survey Area: State of Connecticut
 Spatial Version of Data: 3
 Soil Map Compilation Scale: 1:12000

Map comprised of aerial images photographed on these dates:
 4/12/1991

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 LEGEND

-  Soil Map Units
-  Cities
-  Detailed Counties
-  Detailed States
-  Interstate Highways
-  Roads
-  Rails
-  Water
-  Hydrography
-  Oceans
-  Escarpment, bedrock
-  Escarpment, non-bedrock
-  Gully
-  Levee
-  Slope
-  Blowout
-  Borrow Pit
-  Clay Spot
-  Depression, closed
-  Eroded Spot
-  Gravel Pit
-  Gravelly Spot
-  Gully
-  Lava Flow
-  Landfill
-  Marsh or Swamp
-  Miscellaneous Water
-  Rock Outcrop
-  Saline Spot
-  Sandy Spot
-  Slide or Slip
-  Sinkhole
-  Sodic Spot
-  Spot Area
-  Stony Spot
-  Very Stony Spot
-  Perennial Water
-  Wet Spot

Map Unit Legend Summary

State of Connecticut

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
62C	Canton and Charlton soils, 3 to 15 percent slopes, extremely stony	4.5	31.3
62D	Canton and Charlton soils, 15 to 35 percent slopes, extremely stony	3.5	24.4
84B	Paxton and Montauk fine sandy loams, 3 to 8 percent slopes	0.2	1.7
308	Udorthents, smoothed	6.2	42.6

Map Unit Description (Brief)

State of Connecticut

[Only those map units that have entries for the selected non-technical description categories are included in this report]

Map Unit: 62C - Canton and Charlton soils, 3 to 15 percent slopes, extremely stony

Description Category: SOI

Canton And Charlton Soils, 3 To 15 Percent Slopes, Extremely Stony

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 45 percent Canton soils, 35 percent Charlton soils. 20 percent minor components.

Canton soils

This component occurs on upland hill landforms. The parent material consists of melt-out till derived from schist, granite, 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 1.98 in/hr (moderately rapid), with about 5.6 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 7s

Typical Profile:

*0 to 1 inches; moderately decomposed plant material
1 to 3 inches; gravelly fine sandy loam
3 to 15 inches; gravelly loam
15 to 24 inches; gravelly loam
24 to 30 inches; gravelly loam
30 to 60 inches; very gravelly loamy sand*

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 7s

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*

Map Unit Description (Brief)

State of Connecticut

Map Unit: 62D - Canton and Charlton soils, 15 to 35 percent slopes, extremely stony

Description Category: SOI

Canton And Charlton Soils, 15 To 35 Percent Slopes, Extremely Stony

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 45 percent Canton soils, 35 percent Charlton soils, 20 percent minor components

Canton soils

This component occurs on upland hill landforms. The parent material consists of melt-out till derived from schist, granite, and gneiss. The slope ranges from 15 to 35 percent and the runoff class is medium. 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 1.98 in/hr (moderately rapid), with about 5.6 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 7s

Typical Profile:

*0 to 1 inches; moderately decomposed plant material
1 to 3 inches; gravelly fine sandy loam
3 to 15 inches; gravelly loam
15 to 24 inches; gravelly loam
24 to 30 inches; gravelly loam
30 to 60 inches; very gravelly loamy sand*

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 15 to 35 percent and the runoff class is medium. 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 7s

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*

Map Unit Description (Brief)

State of Connecticut

Map Unit: 84B - Paxton and Montauk fine sandy loams, 3 to 8 percent slopes

Description Category: SOI

Paxton And Montauk Fine Sandy Loams, 3 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 35 to 50 inches (889 to 1270 millimeters) and the average annual air temperature is 45 to 52 degrees F. (7 to 11 degrees C.) This map unit is 55 percent Paxton soils, 30 percent Montauk soils, 15 percent minor components.

Paxton soils

This component occurs on upland hill and drumlin landforms. The parent material consists of lodgement till derived from granite, gneiss, and schist. The slope ranges from 3 to 8 percent and the runoff class is medium. The depth to a restrictive feature is 20 to 40 inches to densic material. The drainage class is well drained. The slowest permeability within 60 inches is about 0.00 in/hr (very slow), with about 3.4 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 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 2e

Typical Profile:

*0 to 8 inches; fine sandy loam
8 to 15 inches; fine sandy loam
15 to 26 inches; fine sandy loam
26 to 65 inches; gravelly fine sandy loam*

Montauk soils

This component occurs on upland hill and drumlin landforms. The parent material consists of sandy lodgement till derived from granite and gneiss. The slope ranges from 3 to 8 percent and the runoff class is low. The depth to a restrictive feature is 20 to 38 inches to densic material. The drainage class is well drained. The slowest permeability within 60 inches is about 0.00 in/hr (very slow), 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 about 27 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 2e

Typical Profile:

*0 to 4 inches; fine sandy loam
4 to 14 inches; fine sandy loam
14 to 25 inches; sandy loam
25 to 39 inches; gravelly loamy coarse sand
39 to 60 inches; gravelly sandy loam*

Map Unit: 308 - Udorthents, smoothed

Description Category: SOI

Udorthents, Smoothed

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 32 to 50 inches (813 to 1270 millimeters) and the average annual air temperature is 45 to 55 degrees F. (7 to 13 degrees C.) This map unit is 80 percent Udorthents soils, 20 percent minor components.

Udorthents soils

This component occurs on leveled land and fill landforms. The slope ranges from 0 to 35 percent and the runoff class is medium. The depth to a restrictive feature varies, but is commonly greater than 60 inches. The drainage class is typically well drained. The slowest permeability within 60 inches is about 0.00 in/hr (very slow), with about 9.0 inches (high) available water capacity. The weighted average shrink-swell potential in 10 to 60 inches is about 1.4 LEP (low). The flooding frequency for this component is none. The ponding hazard is none. The minimum depth to a seasonal water table is greater than 60 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 3e

Typical Profile:

*0 to 5 inches; loam
5 to 21 inches; gravelly loam
21 to 80 inches; very gravelly sandy loam*

Map Unit Description (Brief)

State of Connecticut

[Only those map units that have entries for the selected non-technical description categories are included in this report]

Map Unit: 40B - Ludlow silt loam, 3 to 8 percent slopes

Description Category: SOI

Ludlow Silt Loam, 3 To 8 Percent Slopes

This map unit is in the Connecticut Valley Major Land Resource Area. The mean annual precipitation is 40 to 50 inches (1016 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 Ludlow soils. 20 percent minor components.

Ludlow soils

This component occurs on upland drumlin and hill landforms. The parent material consists of lodgement till derived from sandstone, shale, and basalt. The slope ranges from 3 to 8 percent and the runoff class is medium. The depth to a restrictive feature is 20 to 40 inches to densic material. The drainage class is moderately well drained. The slowest permeability within 60 inches is about 0.00 in/hr (very slow), with about 4.8 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 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 2e

Typical Profile:

*0 to 8 inches; silt loam
8 to 20 inches; silt loam
20 to 26 inches; silt loam
26 to 65 inches; gravelly loam*

Map Unit: 287B - Wethersfield-Urban land complex, 3 to 8 percent slopes

Description Category: SOI

Wethersfield-Urban Land Complex, 3 To 8 Percent Slopes

This map unit is in the Connecticut Valley Major Land Resource Area. The mean annual precipitation is 40 to 50 inches (1016 to 1270 millimeters) and the average annual air temperature is 45 to 52 degrees F. (7 to 11 degrees C.) This map unit is 40 percent Wethersfield soils, 35 percent Urban Land. 25 percent minor components.

Wethersfield soils

This component occurs on upland hill and drumlin landforms. The parent material consists of lodgement till derived from basalt, sandstone, and shale. The slope ranges from 3 to 8 percent and the runoff class is medium. The depth to a restrictive feature is 20 to 40 inches to densic material. The drainage class is well drained. The slowest permeability within 60 inches is about 0.00 in/hr (very slow), with about 4.3 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 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 2e

Typical Profile:

*0 to 3 inches; loam
3 to 13 inches; loam
13 to 27 inches; gravelly loam
27 to 65 inches; gravelly loam*

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 8 percent and the runoff class is very high. The Nonirrigated Land Capability Class is 8

Map Unit Description (Brief)

State of Connecticut

Map Unit: 306 - Udorthents-Urban land complex

Description Category: SOI

Udorthents-Urban Land Complex

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 32 to 50 inches (813 to 1270 millimeters) and the average annual air temperature is 45 to 55 degrees F. (7 to 13 degrees C.) This map unit is 50 percent Udorthents soils, 35 percent Urban Land, 15 percent minor components.

Udorthents soils

This component occurs on cut (road, railroad, etc.), railroad bed, road bed, spoil pile, urban land, fill, and spoil pile landforms. The slope ranges from 0 to 25 percent and the runoff class is medium. The depth to a restrictive feature varies, but is commonly greater than 60 inches. The drainage class is typically well drained. The slowest permeability within 60 inches is about 0.00 in/hr (very slow), with about 9.0 inches (high) available water capacity. The weighted average shrink-swell potential in 10 to 60 inches is about 1.4 LEP (low). The flooding frequency for this component is none. The ponding hazard is none. The minimum depth to a seasonal water table is greater than 60 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 3e

Typical Profile:

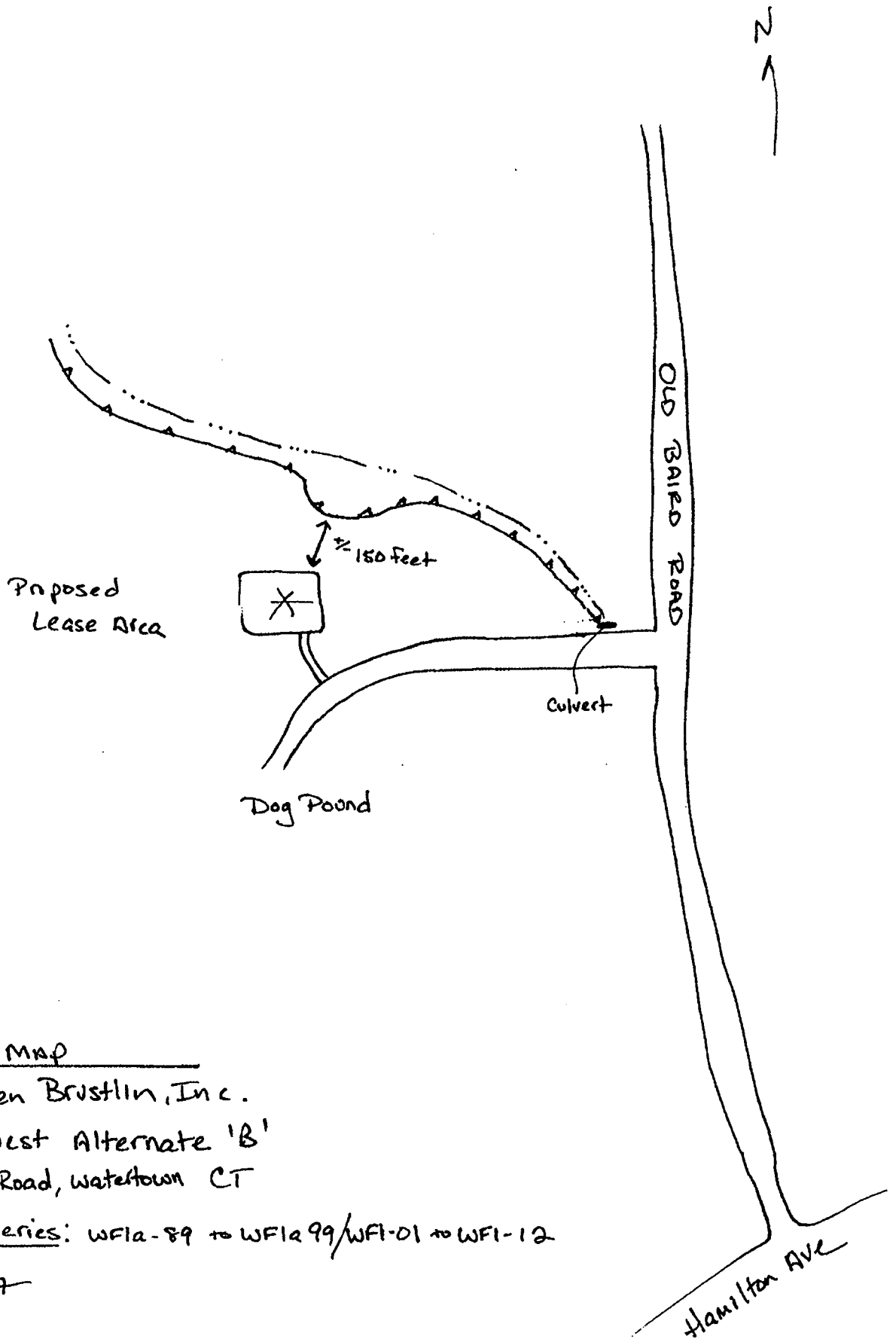
0 to 5 inches; loam

5 to 21 inches; gravelly loam

21 to 80 inches; very 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 35 percent and the runoff class is very high. The Nonirrigated Land Capability Class is 8



Wetland Sketch Map

Vanasse Hangen Brustlin, Inc.

Watertown West Alternate 'B'

Old Baird Road, Watertown CT

Wetland Flag Series: WFI-89 to WFI-99/WFI-01 to WFI-12

SF 1/19/07



APPROXIMATE SCALE
400 0 400 FEET

NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

TOWN OF
WATERTOWN,
CONNECTICUT
LITCHFIELD COUNTY

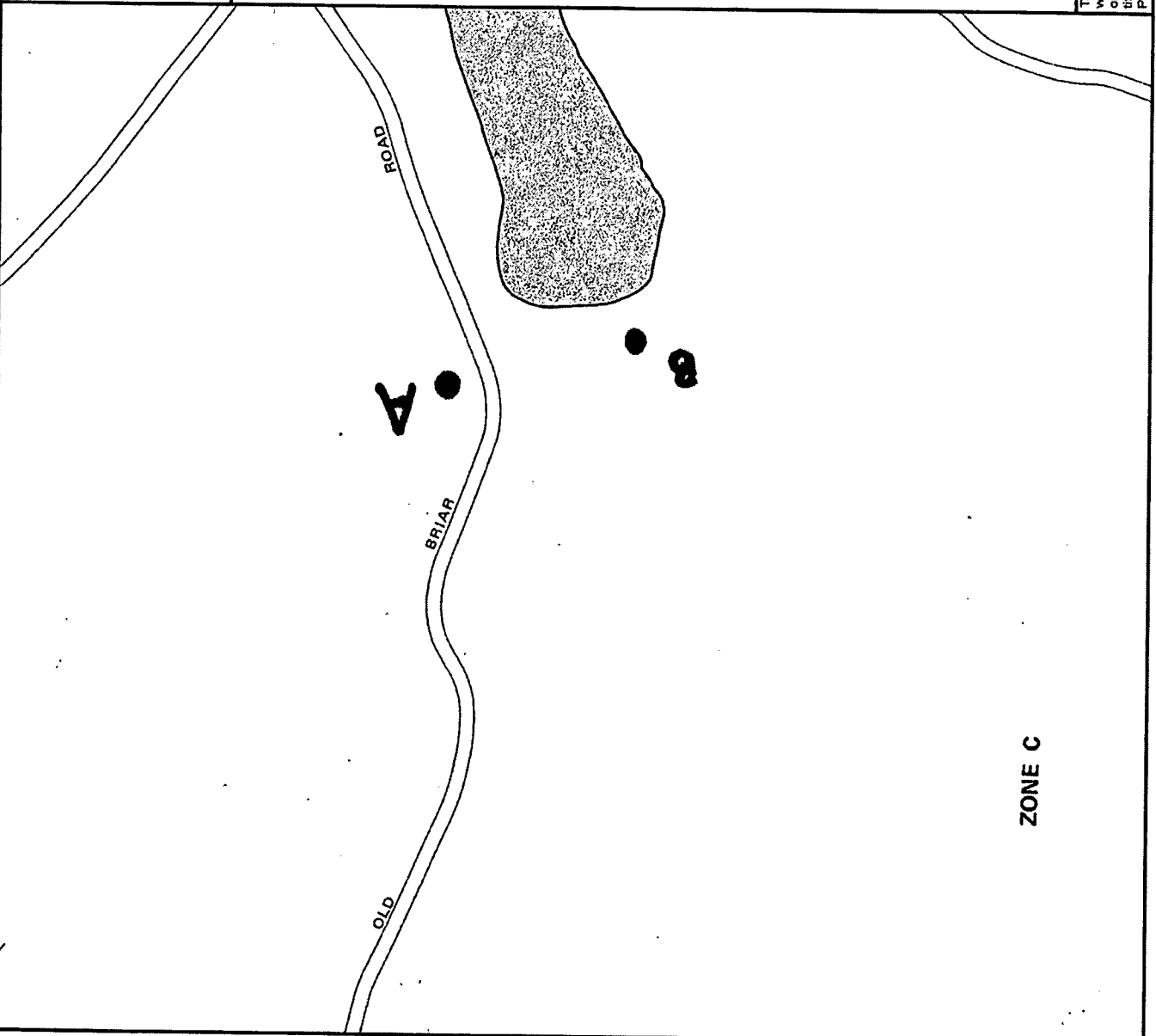
PANEL 10 OF 11
(SEE MAP INDEX FOR PANELS NOT PRINTED)

COMMUNITY-PANEL NUMBER
090058 0010 B

EFFECTIVE DATE:
NOVEMBER 5, 1980



federal emergency management agency
federal insurance administration



ZONE C

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.fema.gov