



General Permit for Water Resource Construction Activities

Civil

State of Connecticut - DEEP
Central Permit Processing Unit
79 Elm Street
Hartford, Connecticut 06106-5127

Structural

Mechanical

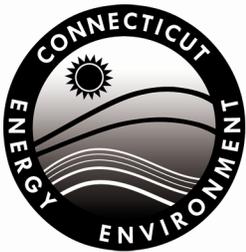
University of Connecticut
STEM Residence Hall
Alumni Drive
Storrs, Connecticut

Electrical

April 30, 2014

Technology

Commissioning



**Connecticut Department of
Energy & Environmental Protection**
Bureau of Water Protection & Land Reuse
Inland Water Resources Division

Request for Authorization Form for the General Permit for Water Resource Construction Activities

Please complete this form in accordance with the instructions (DEP-IWRD-REG-013) to ensure the proper handling of your request. Print or type unless otherwise noted. You must submit the fee along with this completed form.

CPPU USE ONLY
App #: _____
Doc #: _____
Check #: _____
Program: GP IWRD Construction Activities

Part I: Request and Fee Type

Check the appropriate box identifying the request type.

<input type="checkbox"/> \$5000 [#1757] for each Request for Authorization for Section 3(a)(1), (a)(2), (a)(3), (a)(4), (a)(5), (a)(6), or (a)(7) activities under the subject general permit, unless you qualify as one of the following: <input type="checkbox"/> \$2500 for any municipality <input type="checkbox"/> \$2500 for electronic filing*	<input type="checkbox"/> \$2500 [#1758] for each Request for Authorization for Section 3(a)(8) or 3(a)(9) activities under the subject general permit, unless you qualify as one of the following: <input type="checkbox"/> \$1250 for any municipality <input checked="" type="checkbox"/> \$1250 for electronic filing*
<p><i>*In order to file electronically, ALL supporting documents under Part VI of this application must be submitted in an electronic format on a CD, along with this original completed application in hard copy.</i></p>	
<p>The request will not be processed without the fee. The fee shall be non-refundable and shall be paid by check or money order to the Department of Energy and Environmental Protection.</p>	
<p>Town where site is located: <u>Mansfield</u></p>	
<p>Brief Description of Project: Construction of a 650 to 800 bed, 200,000 to 250,000 square foot residence hall on the University of Connecticut Storrs campus.</p>	

If there are any changes or corrections to your company/facility or individual name, mailing or billing address or contact information, please complete and submit the [Request to Change Company/Individual Information](#) to the address indicated on the form. For any other changes you must contact the specific program from which you hold a current DEEP license. If there is a change in ownership, please contact the Permit Assistance Office for questions concerning license transfers at 860-424-3003.

Part II: Requestor Information

- **If a requester is a corporation, limited liability company, limited partnership, limited liability partnership, or a statutory trust, it must be registered with the Secretary of State. If applicable, requester's name shall be stated **exactly** as it is registered with the Secretary of State. Please note, for those entities registered with the Secretary of State, the registered name will be the name used by DEEP. This information can be accessed at the Secretary of State's database (CONCORD). (www.concord-sots.ct.gov/CONCORD/index.jsp)*
- *If a requester is an individual, provide the legal name (include suffix) in the following format: First Name; Middle Initial; Last Name; Suffix (Jr, Sr., II, III, etc.).*

1. Requester Name: University of Connecticut

Mailing Address: 31 LeDoyt Road U-3055

City/Town: Storrs

State: CT

Zip Code: 06269-3055

Business Phone: 860-486-9295

ext.:

Contact Person: Paul Ferri

Phone:

ext.

E-mail: paul.ferri@uconn.edu

*By providing this e-mail address you are agreeing to receive official correspondence from the department, at this electronic address, concerning the subject request. Please remember to check your security settings to be sure you can receive e-mails from "ct.gov" addresses. Also, please notify the department if your e-mail address changes.

a) Requester Type (check one):

individual federal agency state agency municipality tribal

*business entity (*If a business entity complete i through iii):

i) check type: corporation limited liability company limited partnership

limited liability partnership statutory trust Other: _____

ii) provide Secretary of the State business ID #: _____ This information can be accessed at database (CONCORD). (www.concord-sots.ct.gov/CONCORD/index.jsp)

iii) Check here if you are **NOT** registered with the Secretary of State's office.

Check here if any co-registrants. If so, attach additional sheet(s) with the required information as requested above.

b) Requester's interest in property at which the proposed activity is to be located:

site owner option holder lessee easement holder operator

other (specify): **Environmental Compliance Manager**

2. Billing contact, if different than the requester.

Name:

Mailing Address:

City/Town:

State:

Zip Code:

Business Phone:

ext.

Contact Person:

Title:

Email:

Part II: Requestor Information (continued)

3. Primary contact for departmental correspondence and inquiries, if different than the requester.

Name:

Mailing Address:

City/Town:

State:

Zip Code:

Business Phone:

ext.

Contact Person:

Title:

Email:

*By providing this e-mail address you are agreeing to receive official correspondence from the department, at this electronic address, concerning the subject request. Please remember to check your security settings to be sure you can receive e-mails from "ct.gov" addresses. Also, please notify the department if your e-mail address changes.

4. Attorney or other representative, if applicable:

Firm Name:

Mailing Address:

City/Town:

State:

Zip Code:

Business Phone:

ext.

Attorney:

Email:

5. Site Owner, if different than the requester.

Name:

Mailing Address:

City/Town:

State:

Zip Code:

Business Phone:

ext.

Contact Person:

Title:

Email:

6. Engineer(s) or other consultant(s) employed or retained to assist in preparing the request or in designing or constructing the activity.

Name: **BVH Integrated Services**

Mailing Address: **50 Griffin Road South**

City/Town: **Bloomfield**

State: **CT**

Zip Code: **06002**

Business Phone: **860-286-9171**

ext.

Contact Person: **Scott Waitkus**

Title: **Project Manager**

Email: **scottw@bvhis.com**

Service Provided: **Civil Engineering**

Check here if additional sheets are necessary, and label and attach them to this sheet.

Part III: Site Information

1. SITE NAME AND LOCATION

Name of Site : **University of Connecticut**

Street Address or Location Description: **Alumni Drive**

City/Town: **Storrs**

State: **CT**

Zip Code: **06269-2026**

Tax Assessor's Reference: Map

Block

Lot

Latitude and longitude of the exact location of the proposed activity in degrees, minutes, and seconds or in decimal degrees: Latitude: **41°48'21"** Longitude: **72°15'30"**

Method of determination (check one):

GPS USGS Map Other (please specify): **Google Maps**

If a USGS Map was used, provide the quadrangle name:

2. **INDIAN LANDS:** Is or will the facility be located on federally recognized Indian lands? Yes No

3. **COASTAL BOUNDARY:** Is the activity which is the subject of this registration located within the coastal boundary as delineated on DEEP approved coastal boundary maps? Yes No

If yes, and this registration is for a new authorization, or a modification of an existing authorization where the physical footprint of the subject activity is modified, you must submit a [Coastal Consistency Review Form](#) (DEP-APP-004) with your registration as Attachment C.

Information on the coastal boundary is available at the local town hall or on the "Coastal Boundary Map" available at DEEP Maps and Publications (860-424-3555).

4. **ENDANGERED OR THREATENED SPECIES:** According to the most current "State and Federal Listed Species and Natural Communities Map", is the project site located within an area identified as a habitat for endangered, threatened or special concern species or located less than ½ mile upstream or downstream of such an area? Yes No Date of Map: **12/13**

If yes, complete and submit a [Request for NDDB State Listed Species Review Form](#) (DEP-APP-007) to the address specified on the form. **Please note NDDB review generally takes 4 to 6 weeks and may require additional documentation from the registrant.**

A **copy** of the completed [Request for NDDB State Listed Species Review Form](#) and the CT NDDB response **must** be submitted with this completed registration as Attachment D.

For more information visit the DEEP website at www.ct.gov/dep/nddbrequests or call the NDDB at 860-424-3011.

5. **AQUIFER PROTECTION AREAS:** Is the site located within a town required to establish Aquifer Protection Areas, as defined in section 22a-354a through 354bb of the General Statutes (CGS)?

Yes No To view the applicable list of towns and maps visit the DEEP website at www.ct.gov/deep/aquiferprotection

If yes, is the site within an area identified on a Level A map? Yes No

If yes, is the site within an area identified on a Level B map? Yes No

If your site is on a Level A map, check the DEEP website, [Business and Industry Information](#) to determine if your activity is required to be registered under the Aquifer Protection Area Program.

If your site is on a Level B map, no action is required at this time, however you may be required to register under the Aquifer Protection Area Program in the future when the area is delineated as Level A.

Part III: Site Information (continued)

6. CONSERVATION OR PRESERVATION RESTRICTION: Is the property subject to a conservation or preservation restriction? Yes No

If Yes, proof of written notice of this registration to the holder of such restriction or a letter from the holder of such restriction verifying that this registration is in compliance with the terms of the restriction, must be submitted as Attachment E.

Part IV: Construction Activity Details

1. Proposed Date of Initiation of Activity: Fall 2014

2. Anticipated Date of Completion: Spring 2016

3. Name of the wetland or watercourse involved with or adjacent to the subject activity:
+/- 935 square foot wetland on existing site (unnamed)

4. Is the subject activity within a watercourse or floodplain? Yes No

5. Will the subject activity be within a FEMA floodway? Yes No

6. If the project requires a Flood Management Certification for the subject activity, provide the Flood Management Certification Number: Application being submitted concurrent with this application

7. Disturbance to wetlands, watercourses and flood plains:

Wetlands (acres):
excavation: _____ fill: 0.02 total disturbance: 0.02

Floodplain (cubic yards):
excavation: 0 fill: 0 net: 0

Watercourse (linear feet): 0

8. Describe the present and intended use(s) of the property at which the subject activity will be conducted and the reason for conducting or maintaining the activity. **Currently the wetland is located in a small wooded area adjacent to a discus/hammer throw field. The new STEM residence hall will be constructed in this area in order to provide a living and learning community for first year Science, Technology, Engineering and Math students. The dormitory is needed to provide residential life space for a growing Uconn undergraduate population.**

9. Describe all natural and manmade features impacted by the subject activity, including wetlands, watercourses, fish and wildlife habitat, floodplains, and structures and appurtenances thereto, and the impact of the subject activity on such features. **The project will impact the wetland as described above. There are isolated wooded areas totaling approximately 1 acre that will need to be cleared to accommodate the project. The storm drainage design for the project is being designed as to not have adverse impacts on downstream water courses. A Flood Certification is being submitted concurrent with this application which describes the storm drainage design in detail. Refer to the Wetland Delineation Report in Attachment H for additional information.**

Check here if additional sheets are necessary, and label and attach them to this sheet.

Part V: Municipal Information

You must submit a complete copy of this completed request for authorization, including supporting documents, to the municipal wetlands agency, zoning commission, planning commission or combined planning and zoning commission, and conservation commission of each municipality which is or may be affected by the subject activity. Enter the names and address of the municipal agencies which were provided a complete copy of your request for authorization and the date such copy was submitted (Date of Service) and the Type of Service. **Note: For those activities not required to obtain approval from the commissioner, the activity may not be conducted sooner than sixty days after the date of service to the municipal agencies.**

1. Name: Mansfield Inland Wetlands Agency - Linda M. Painter, AICP Address: 4 South Eagleville Rd City/Town: Mansfield State: CT Zip Code: 06268 Business Phone: 860-429-3330 ext. Email: PainterLM@mansfieldct.org Date of Service: Type of Service: <input type="checkbox"/> First Class Mail <input type="checkbox"/> Certified Mail <input checked="" type="checkbox"/> Hand Delivery
2. Name: Mansfield Town Planning – Linda M. Painter, AICP Address: 4 South Eagleville Rd City/Town: Mansfield State: CT Zip Code: 06268 Business Phone: 860-429-3330 ext. Email: PainterLM@mansfieldct.org Date of Service: Type of Service: <input type="checkbox"/> First Class Mail <input type="checkbox"/> Certified Mail <input checked="" type="checkbox"/> Hand Delivery
3. Name: Mansfield Conservation Commission – Linda M. Painter, AICP Address: 4 South Eagleville Rd City/Town: Mansfield State: CT Zip Code: 06268 Business Phone: 860-429-3330 ext. Email: PainterLM@mansfieldct.org Date of Service: Type of Service: <input type="checkbox"/> First Class Mail <input type="checkbox"/> Certified Mail <input checked="" type="checkbox"/> Hand Delivery
4. Name: Address: City/Town: State: Zip Code: Business Phone: ext. Email: Date of Service: Type of Service: <input type="checkbox"/> First Class Mail <input type="checkbox"/> Certified Mail <input type="checkbox"/> Hand Delivery
<input type="checkbox"/> Check here if additional sheets are necessary, and label and attach them to this sheet.
5.

Part VI: Supporting Documents

Check the applicable box below for each attachment being submitted with this request. When submitting any supporting documents, please label the documents as indicated in this part (e.g., Attachment A, etc.) and be sure to include the requester's name as indicated on this request. ***In order to file electronically, ALL supporting documents must be submitted in an electronic format on a CD with this original completed application in hard copy.***

- Attachment A: Location Map: A depiction, on an 8.5" x 11" copy of the relevant portion of the most recent version of the United States Geologic Survey topographic map (Scale 1:24,000), of the exact location of the property at which such activity will be conducted.
- Attachment B: Site plan pursuant Section 4(c) (2) (I) of the subject general permit.
- Attachment C: *Coastal Consistency Review Form* (DEP-APP-004), if applicable
- Attachment D: Copy of the completed *Request for NDDB State Listed Species Review Form* (DEP-APP-007) and the NDDB response, if applicable.
- Attachment E: Conservation or Preservation Restriction Information, if applicable.
- Attachment F: A copy of the Category 2 approval letter from the Army Corps of Engineers, or a copy of the Appendix 1A: Category 1 Certification Form filed with the US Army Corps of Engineers, if applicable.
- Attachment G: Drainage Maintenance Plan, Trail Maintenance Plan, Boat Launch Maintenance Plan, or Beach Maintenance Plan for Inland Beaches as defined in Section 2 of the subject general permit, if applicable.
- Attachment H: Other information provided by requester (list): **Figure 2 – FEMA FIRM, Figure 3 – NDDB Map, Figure 4 – Aquifer Protection Area Map, Wetland Delineation Report**

Part VII: Requester Certification

The requester *and* the individual(s) responsible for actually preparing the request must sign this part. A request will be considered incomplete unless all required signatures are provided. If the requester is the preparer, please mark N/A in the spaces provided for the preparer.

<p>“I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that based on reasonable investigation, including my inquiry of the individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief.</p> <p>I certify that this general permit request for authorization is on complete and accurate forms as prescribed by the commissioner without alteration of the text.</p> <p>I understand that the subject activity is authorized only on or after the date the commissioner issues a written approval of registration with respect to such activity.</p> <p>I certify that a complete copy of this request for authorization, including all documents attached thereto, was sent by regular or certified mail or was hand delivered to the municipal wetlands agency, zoning commission, planning commission or combined planning and zoning commission, and conservation commission of each municipality which is or may be affected by the subject activity.</p> <p>I understand that a false statement in the submitted information may be punishable as a criminal offense, in accordance with section 22a-6 of the General Statutes, pursuant to section 53a-157b of the General Statutes, and in accordance with any other applicable statute.”</p>	
<hr/> Signature of Requester	<hr/> Date
<hr/> Jason Coite Name of Requester (print or type)	<hr/> Environmental Compliance Manager Title (if applicable)
<hr/> Signature of Preparer (if different than above)	<hr/> Date
<hr/> Scott Waitkus Name of Preparer (print or type)	<hr/> Project Manager Title (if applicable)
<input type="checkbox"/> Check here if additional signatures are required. If so, please reproduce this sheet and attach signed copies to this sheet. You must include signatures of any person preparing any report or parts thereof required in this registration (i.e., professional engineers, surveyors, soil scientists, consultants, etc.)	

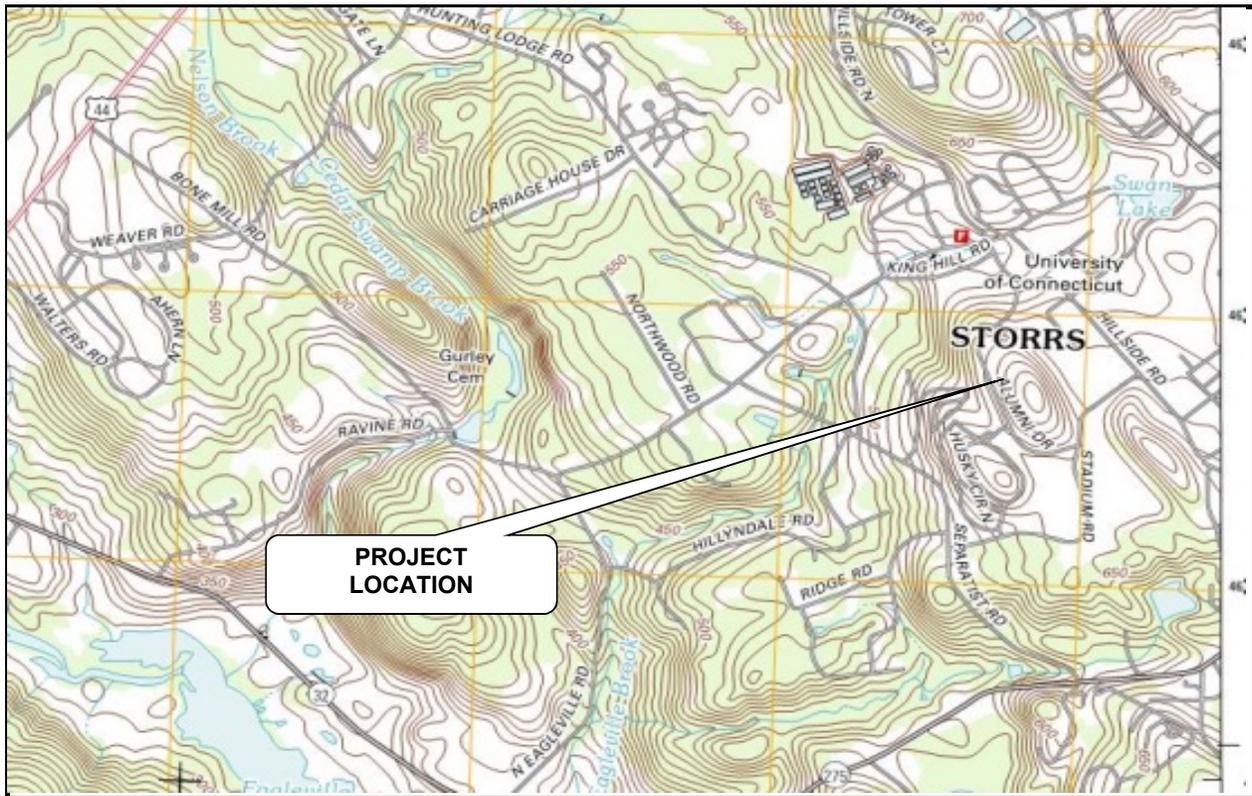
Note: Please submit this completed Request for Authorization, Fee, and all Supporting Documents to:

CENTRAL PERMIT PROCESSING UNIT
 DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION
 79 ELM STREET
 HARTFORD, CT 06106-5127

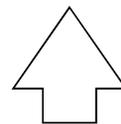
You must submit a complete copy of this completed request for authorization, including supporting documents, to the municipal wetlands agency, zoning commission, planning commission or combined planning and zoning commission, and conservation commission of each municipality which is or may be affected by the subject activity.

Attachment A

Figure 1



USGS TOPOGRAPHIC QUADRANGLE MAP
COVENTRY QUADRANGLE
SCALE: 1:24,000
CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988



NORTH



BVH
integrated
services

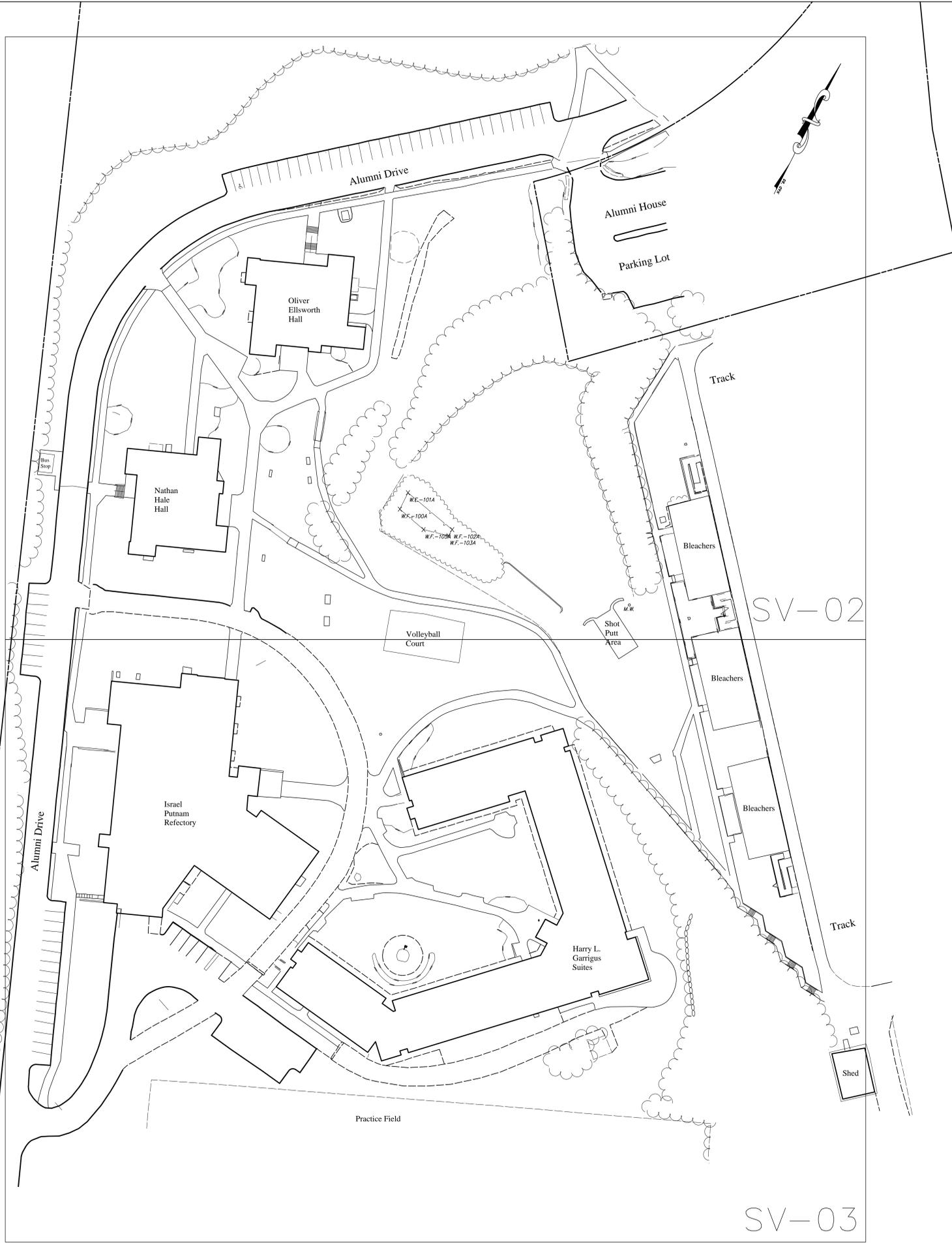
50 Griffin Road South
Bloomfield, CT 06002
Tel: (860) 288-9171
Fax: (860) 242-0236

CIVIL, STRUCTURAL, MECHANICAL AND ELECTRICAL ENGINEERS

JOB NO: 2113160
CLIENT: University of Connecticut
SUBJECT: USGS Topographic Quadrangle Map

Prepared By: DCC Date: 4/28/2014 Checked By: TSD

Attachment B



ABBREVIATIONS		FEATURE LINES		UTILITY SERVICES (UNDERGROUND OR OVERHEAD)	
AC	Air Conditioning	---	Centerline	---	Electric Service
ALP	Aluminum Piping & Telegraph Company	---	Edge of Road/Street	---	Gas Pipes
BL	Block	---	Edge of Paved/Driveway	---	SAN
CD	Centerline	---	Edge of Paved/Driveway	---	SAN
CM	Communication	---	Edge of Paved/Driveway	---	SAN
CO	Concrete	---	Edge of Paved/Driveway	---	SAN
CO2	Concrete	---	Edge of Paved/Driveway	---	SAN
CO3	Concrete	---	Edge of Paved/Driveway	---	SAN
CO4	Concrete	---	Edge of Paved/Driveway	---	SAN
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CO97	Concrete	---	Edge of Paved/Driveway	---	SAN
CO98	Concrete	---	Edge of Paved/Driveway	---	SAN
CO99	Concrete	---	Edge of Paved/Driveway	---	SAN
CO100	Concrete	---	Edge of Paved/Driveway	---	SAN

SURVEY NOTES

- This Survey and map has been prepared in Accordance with the regulations of Connecticut State Agencies, Sections 20-300b-1 thru 20-300b-20 and the "Minimum Standards for Surveys and Maps in the State of Connecticut" endorsed by the Connecticut Association of Land Surveyors, Inc. on September 26, 1996. The type of survey is a Limited Topographic and General Location Survey. No boundary opinion is rendered on this plan. The accuracies are as follows:

Horizontal Control	Class "A-2"
Vertical Control	Class "V-2"
Boundary	Class "D" (compiled)
Topography	Class "T-2"
Surface Utilities	Class "T-2"
Underground Utilities	Class "D" (compiled)
- The Horizontal Coordinates and Elevations depicted on the plan represent the NAD '83 and the NAVD '88 datums. Elevations and coordinates depicted were established on the site based upon GPS observations taken on January 27th, and February 4th, 2014 using Trimble GNS RTK RB receivers and solutions provided through the KEYNET network.
- Underground Utilities (if depicted) have been compiled, in part, based upon information furnished by others. This information is to be considered approximate and Alfred Benesch & Company does not take responsibility for subsequent errors or omissions which may have been incorporated into this plan as a result. Additionally, other such features may exist on the site, the existences of which are unknown to Alfred Benesch & Company. The size, location and existence of all such features must be field determined and verified by the appropriate authorities prior to any construction. Call "Call Before You Dig" 1-800-922-4455.
- The intent of this plan is to depict the existing conditions in the area depicted only.
- Utility information taken from files provided to Alfred Benesch & Company. Some of the utility connections were not shown in the files and are therefore unknown to Alfred Benesch & Company.
- Some tree tags could either not be read or were missing.
- Underground utilities were marked out in the field by Underground Surveying of Brookfield, CT on the days of February 2-3, 2014. The markout was field located by Alfred Benesch & Company survey crews.
- Wetlands were delineated by Fuss & O'Neill on April 5, 2014 and field located by the Alfred Benesch Survey crew on April 7, 2014.

MAP REFERENCES

- Individual Building Site Plan files were provided by the University of Connecticut Architectural and Engineering Services Department.
- "Site Plan Bid Set Alumni House University of Connecticut Storrs, Connecticut Scale: 1" = 20' Date: October 30, 1987 Sheet: SP1"
- "Boundary & Topographic Survey Land of The University of Connecticut Alumni Association, Inc. Alumni Drive Mansfield, Connecticut Scale: 1" = 20' Date: June 2000 Revised: 11-07-00 Prepared by URS Greiner Woodward Clyde, Inc."

SURVEY CONTROL POINTS

POINT	NORTHING	EASTING	ELEV.	DESCRIPTION
10	854761.572	1134191.806	663.60	Rebar w/ Cap
20	855034.002	1134087.548	638.06	Rebar w/ Cap
30	855173.711	1133924.087	629.85	Drill Hole
40	855072.873	1133725.056	643.97	Rebar w/ Cap
50	854853.303	1133612.915	653.54	Rebar w/ Cap
60	854992.125	1133704.086	659.53	Drill Hole
70	854359.421	1133794.798	667.01	Drill Hole
80	854253.392	1134003.299	690.34	Rebar w/ Cap
90	854421.665	1134375.855	689.33	Rebar w/ Cap

TO THE BEST OF MY KNOWLEDGE AND BELIEF THIS MAP IS SUBSTANTIALLY CORRECT AS DEPICTED AND NOTED HEREON.

JONATHAN KULA, P.L.S. No. 70257 DATE
ALFRED BENESCH & COMPANY, GLASTONBURY, CONNECTICUT
(not valid without original signature and embossed seal)

CERTIFICATION:

STATUS:

CONSULTANT:
benesch
engineers · scientists · planners
Alfred Benesch & Company
90 National Drive
Glastonbury, Connecticut

REVISIONS:

MARK	DATE	DESCRIPTION
△	--	--

UNIVERSITY OF CONNECTICUT
ARCHITECTURAL & ENGINEERING
BUILDING SERVICES
31 LEDDY ROAD UNIT 3038
STORRS, CONNECTICUT 06269-3038
TELEPHONE: (860) 486-3127
FACSIMILE: (860) 486-3177

PROJECT:

STEM Dormitory

Alumni Drive
Storrs CT. 06269-3038

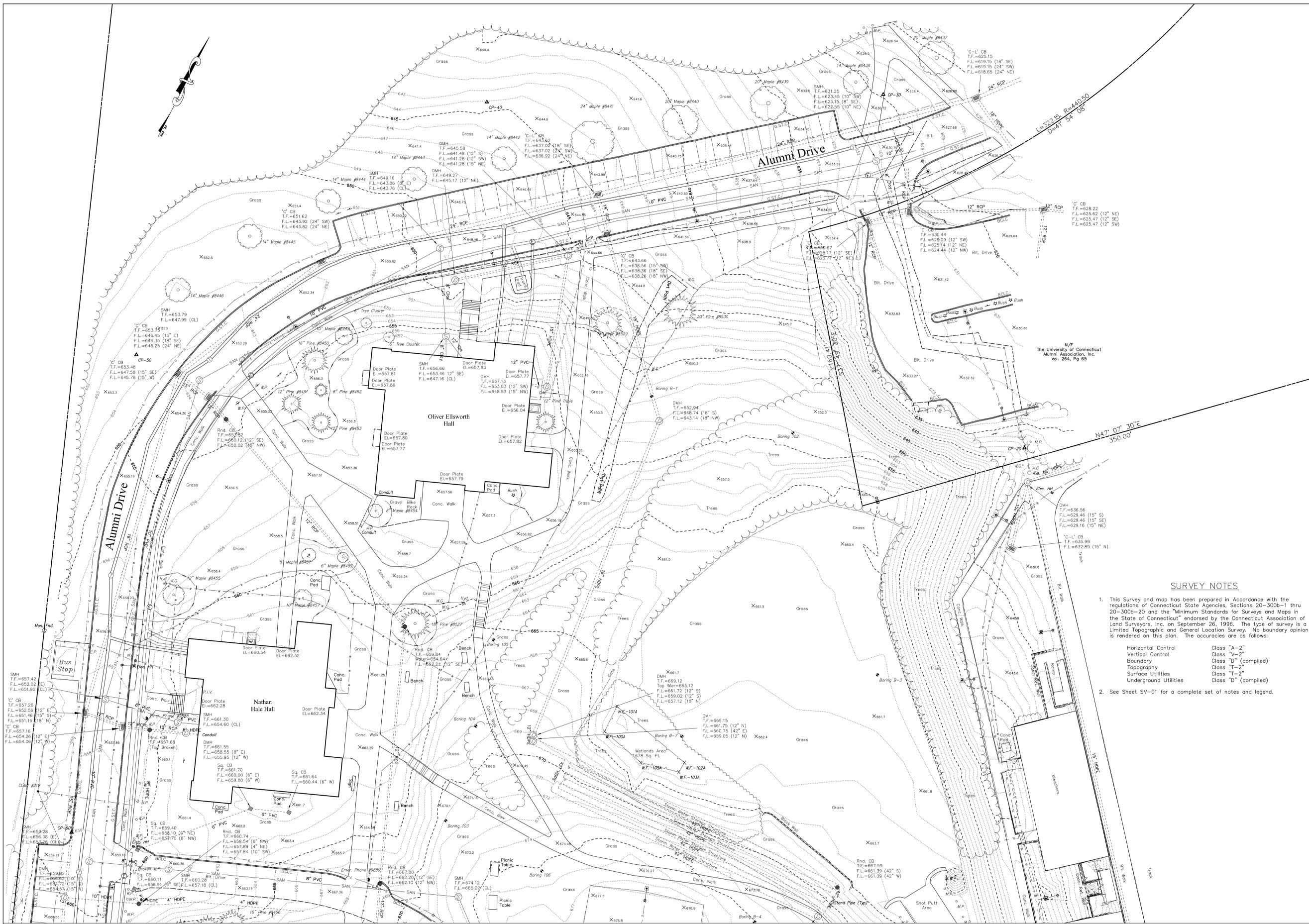
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WORK ORDER NO: #####
FILE NAME:
S:\701085\701200 AMENTA EMMA STEM\SURVEY\ACAD\701200 BASE

SURVEYOR: JK
DRAFTER: DMG
SCALE: 1" = 20'
DATE: 02-28-2014
SHEET TITLE:
Limited Topographic & General Location Survey

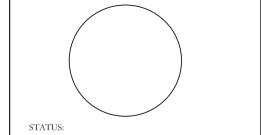
SHEET:

SV-01

SHEET: 1 of 3



CERTIFICATION:



CONSULTANT:



Alfred Benesch & Company
90 National Drive
Glastonbury, Connecticut

REVISIONS:

MARK	DATE	DESCRIPTION
△	--	--

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BUILDING SERVICES
31 LEDDY ROAD UNIT 3038
STORRS, CONNECTICUT 06269-3038
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FACSIMILE: (860) 486-3177



PROJECT:

STEM
Dormitory

Alumni Drive
Storrs CT. 06269-3038

PROJECT NO: 901632
WORK ORDER NO: #####
FILE NAME:
S:\901085\7012100 AMENTA EMMA
STEM\SURVEY\ACAD\7012100 BASE

SURVEYOR: JK
DRAFTER: DMG
SCALE: 1" = 20'
DATE: 02-28-2014
SHEET TITLE:
Limited Topographic
& General Location
Survey

SHEET:

SV-02

SHEET: 2 of 3

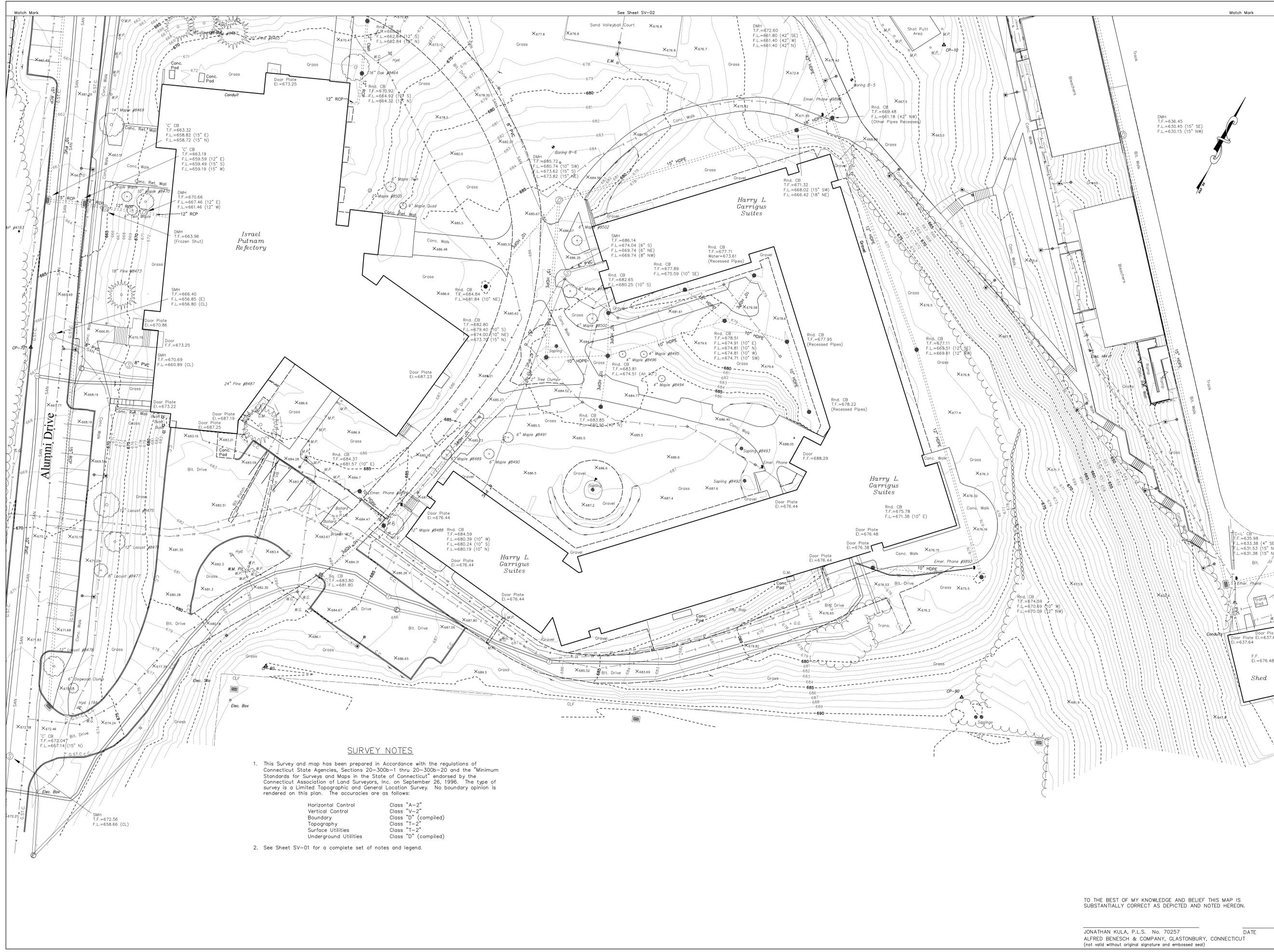
SURVEY NOTES

- This Survey and map has been prepared in Accordance with the regulations of Connecticut State Agencies, Sections 20-300b-1 thru 20-300b-20 and the "Minimum Standards for Surveys and Maps in the State of Connecticut" endorsed by the Connecticut Association of Land Surveyors, Inc. on September 26, 1996. The type of survey is a Limited Topographic and General Location Survey. No boundary opinion is rendered on this plan. The accuracies are as follows:

Horizontal Control	Class "A-2"
Vertical Control	Class "V-2"
Boundary	Class "D" (compiled)
Topography	Class "T-2"
Surface Utilities	Class "I-2"
Underground Utilities	Class "B" (compiled)
- See Sheet SV-01 for a complete set of notes and legend.

TO THE BEST OF MY KNOWLEDGE AND BELIEF THIS MAP IS SUBSTANTIALLY CORRECT AS DEPICTED AND NOTED HEREON.

JONATHAN KULA, P.L.S. No. 70257 DATE
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SURVEY NOTES

- This Survey and map has been prepared in Accordance with the regulations of Connecticut State Agencies, Sections 20-300b-1 thru 20-300b-20 and the "Minimum Standards for Surveys and Maps in the State of Connecticut" endorsed by the Connecticut Association of Land Surveyors, Inc. on September 26, 1996. The type of survey is a Limited Topographic and General Location Survey. No boundary opinion is rendered on this plan. The accuracies are as follows:

Horizontal Control	Class "A-2"
Vertical Control	Class "V-2"
Boundary	Class "D" (compiled)
Topography	Class "T-2"
Surface Utilities	Class "T-2"
Underground Utilities	Class "D" (compiled)
- See Sheet SV-01 for a complete set of notes and legend.

CERTIFICATION:
STATUS:

CONSULTANT:
benesch
engineers · scientists · planners
Alfred Benesch & Company
90 National Drive
Glastonbury, Connecticut

REVISIONS:

MARK	DATE	DESCRIPTION
△	--	--

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FACSIMILE: (860) 486-3177



PROJECT:
STEM Dormitory
Alumni Drive
Storrs CT. 06269-3038
Shed

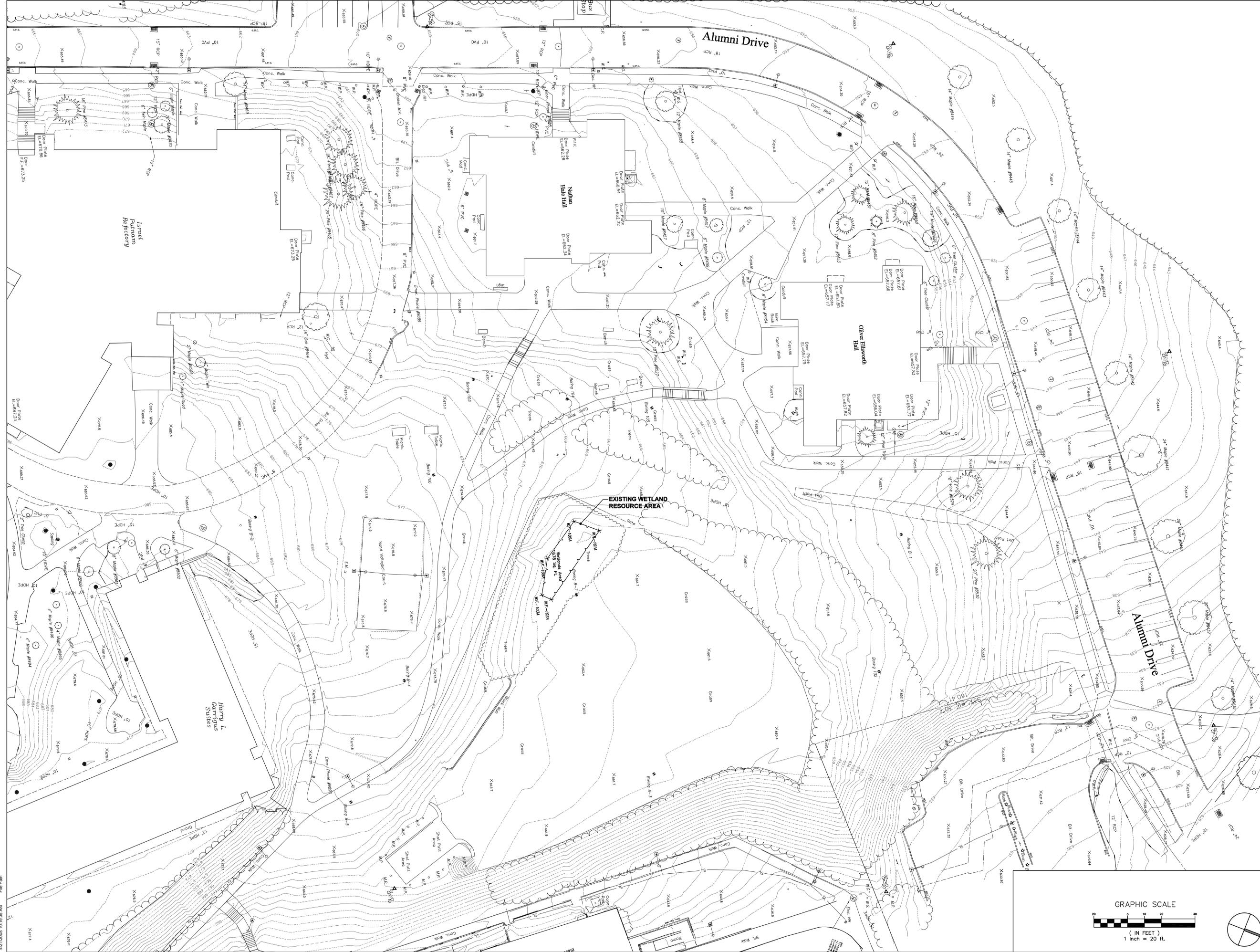
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FILE NAME:
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SURVEYOR: JK
DRAFTER: DMG
SCALE: 1" = 20'
DATE: 02-28-2014
SHEET TITLE:
Limited Topographic & General Location Survey

SHEET:
SV-03
SHEET: 3 of 3

TO THE BEST OF MY KNOWLEDGE AND BELIEF THIS MAP IS SUBSTANTIALLY CORRECT AS DEPICTED AND NOTED HEREON.

JONATHAN KULA, P.L.S. No. 70257 DATE
ALFRED BENESCH & COMPANY, GLASTONBURY, CONNECTICUT
(not valid without original signature and embossed seal)



NEWMAN ARCHITECTS

NEWMAN ARCHITECTS, PC
 Formerly Newman Architects, LLC and
 Formerly Robert S. Newman & Partners P.C.
 300 York Street, New Haven, CT 06511
 203.772.1990 Fax 203.772.1997
 www.newmanarchitects.com

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UNIVERSITY OF CONNECTICUT
 PLANNING, ARCHITECTURAL &
 ENGINEERING SERVICES
 31 LEDOYT ROAD U-3038
 STORRS, CT 06269-3038
 T: (860)486-2776 F: (860)486-3117

CIVIL / STRUCT. / MECH. / ELEC. / PLUMBING
 FIRE PROTECTION ENGINEERS:
BVH INTEGRATED SERVICES, PC
 50 GRIFFIN ROAD SOUTH
 BLOOMFIELD, CT 06002
 T: (860)286-9171

LANDSCAPE ARCHITECTS:
TOWERS | GOLDB, LLC
 85 WILLOW STREET
 NEW HAVEN, CT 06511
 T: (203)773-1153 F: (203)865-6411

ENVIRONMENTAL DESIGN:
ATELIER TEN
 195 CHURCH STREET
 10TH FLOOR
 NEW HAVEN, CT 06510
 T: (203)777-1400 F: (203)777-1902

ELEVATOR CONSULTANTS:
VDA (VAN DEUSEN & ASSOCIATES)
 5 REGENT STREET, SUITE 524
 LIVINGSTON, NJ 07039
 T: 973.984.9220 F: 973.984.2539

CODE CONSULTANTS:
PHILIP R. SHERMAN, P.E.
 P.O. BOX 216
 44 WILMOT CENTER ROAD
 ELKINS, NH 03323
 T: 603.526.6190 F: 603.526.4979

REVISIONS	NO.	DATE	DESCRIPTION

REVISIONS	NO.	DATE	DESCRIPTION

BRIDGING DOCUMENTS

STEM Residence Hall

UCONN PROJECT #901805

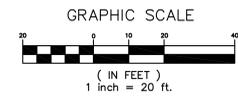
WETLAND LOCATION PLAN

DATE 04/30/2014

DRAWN BY DCC

SCALE 1"=20'

CIVIL **WL-1**



Attachment F



Appendix 1A: Category 1 Certification Form
(Required for all Inland Projects in Connecticut)

US Army Corps of Engineers

New England District

Submit this form before work commences to the following addresses:

U.S. Army Corps of Engineers, Permits & Enforcement Branch B (CT), 696 Virginia Road, Concord, MA 01742-2751

Connecticut Department of Energy & Environmental Protection, CT DEEP, Inland Water Resources Division, 79 Elm Street, Hartford, CT 06106-5127 (not required if work is done within exterior boundaries of Mashantucket)

Permittee Name & Address: University of Connecticut, 31 LeDoyt Rd U-3055 Storrs CT, 06269-3055

Phone number & Email address: 860-486-9295 paul.ferri@uconn.edu

Work Location/Address: Alumni Drive, UCONN Storrs, CT

Latitude/Longitude coordinates: 41d-48m-21s Lat, -72d-15m-30s Long

Waterway name: Un-named Wetland adjacent to existing discus throw field.

Contractor Name & Address: TBD

Phone number & Email address:

Proposed Work Dates: Start: Fall 2014 Finish: Spring 2016

Work will be done within Inland Waters & Wetlands under the following categories - refer to Appendix 1 (check all that apply):

- X 1.A. New Fill and/or Fill Associated with Excavation
1.B. Stream Bank Stabilization
1.C. Repair & Maintenance of Existing Authorized or Grandfathered Fill.

Wetland impact: 935 square feet (sf) Waterway impact: sf and/or linear feet

Brief Project Description Construction of a 650 to 800 bed, 200,000 to 250,000 square foot residence hall and associated sidewalks, stairs and site walls

Project purpose: The dormitory is needed to provide residential life space for a growing Uconn undergraduate population.

Secondary Impacts include but are not limited to impacts to inland waters or wetlands drained, dredged, flooded, cleared or degraded resulting from a single and complete project. See General Condition 3.

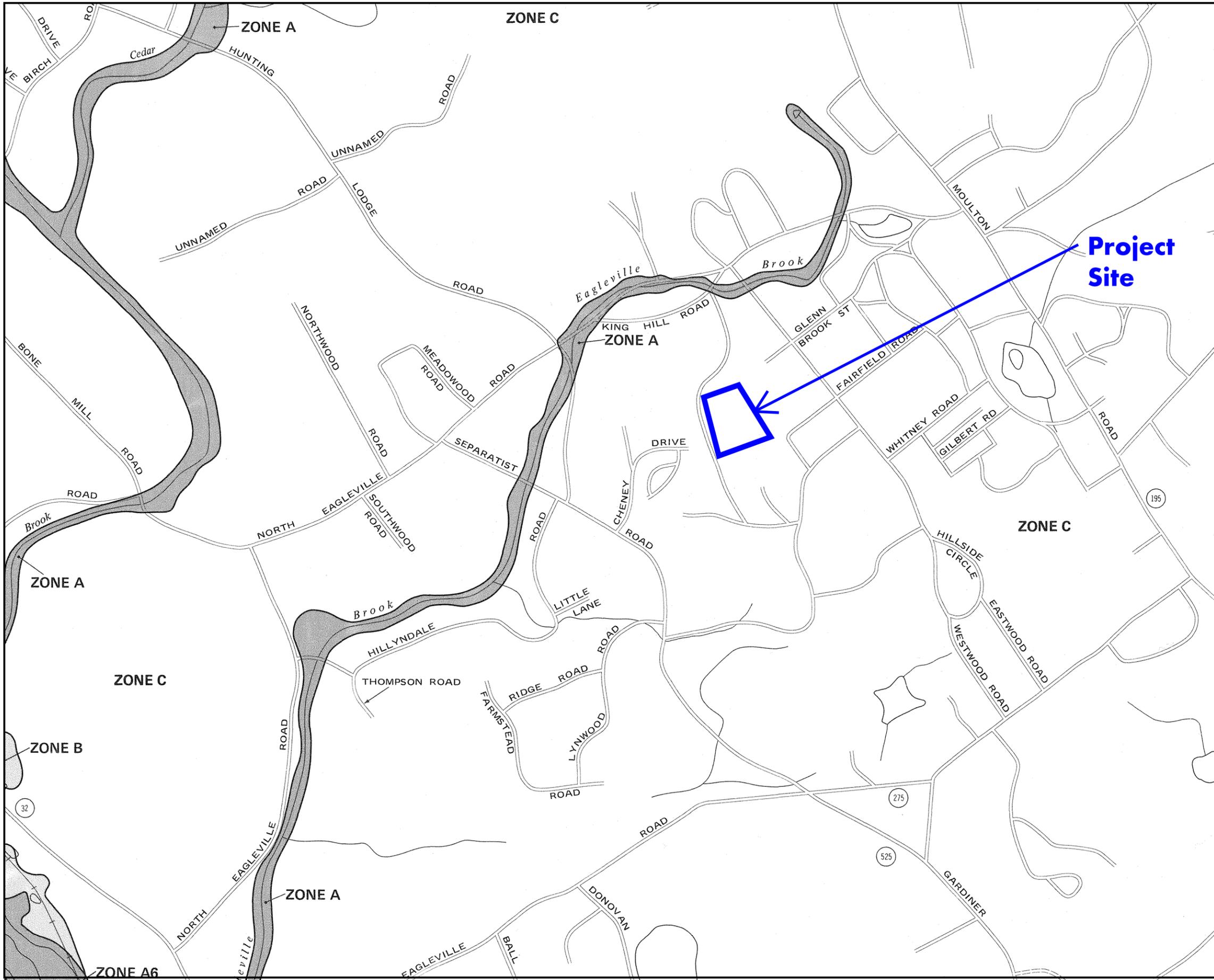
Does your project include any of these secondary impacts? Y(N) - If yes, please describe them:

Your signature below, as permittee, indicates that you accept and agree to comply with the terms, eligibility criteria, and general conditions of Category 1 of this Connecticut General Permit.

Permittee Signature: Date:

Attachment H

Figure 2



APPROXIMATE SCALE
1000 0 1000 FEET

NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

TOWN OF
MANSFIELD,
CONNECTICUT
TOLLAND COUNTY

PANEL 5 OF 20

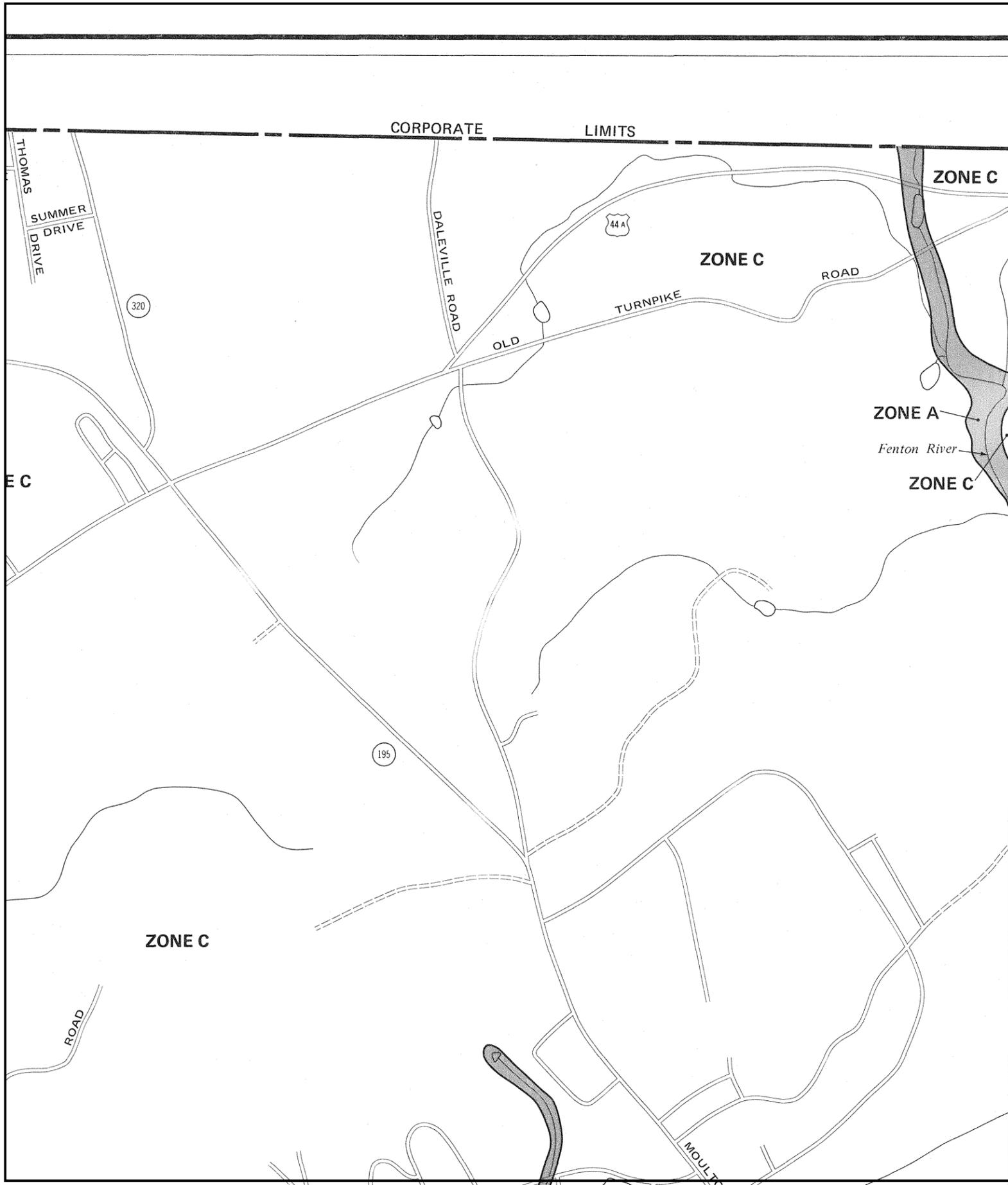
COMMUNITY-PANEL NUMBER
090128 0005 C

EFFECTIVE DATE:
JANUARY 2, 1981



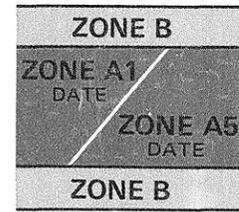
federal emergency management agency
federal insurance administration

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.msc.fema.gov



KEY TO MAP

- 500-Year Flood Boundary —————>
- 100-Year Flood Boundary —————>
- Zone Designations* With Date of Identification e.g., 12/2/74
- 100-Year Flood Boundary —————>
- 500-Year Flood Boundary —————>
- Base Flood Elevation Line With Elevation In Feet** ~~~~~ 513 ~~~~~
- Base Flood Elevation in Feet Where Uniform Within Zone** (EL 987)
- Elevation Reference Mark RM7 X
- River Mile • M1.5



**Referenced to the National Geodetic Vertical Datum of 1929

***EXPLANATION OF ZONE DESIGNATIONS**

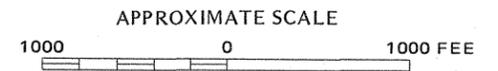
ZONE	EXPLANATION
A	Areas of 100-year flood; base flood elevations and flood hazard factors not determined.
A0	Areas of 100-year shallow flooding where depths are between one (1) and three (3) feet; average depths of inundation are shown, but no flood hazard factors are determined.
AH	Areas of 100-year shallow flooding where depths are between one (1) and three (3) feet; base flood elevations are shown, but no flood hazard factors are determined.
A1-A30	Areas of 100-year flood; base flood elevations and flood hazard factors determined.
A99	Areas of 100-year flood to be protected by flood protection system under construction; base flood elevations and flood hazard factors not determined.
B	Areas between limits of the 100-year flood and 500-year flood; or certain areas subject to 100-year flooding with average depths less than one (1) foot or where the contributing drainage area is less than one square mile; or areas protected by levees from the base flood. (Medium shading)
C	Areas of minimal flooding. (No shading)
D	Areas of undetermined, but possible, flood hazards.
V	Areas of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors not determined.
V1-V30	Areas of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors determined.

NOTES TO USER

Certain areas not in the special flood hazard areas (zones A and V) may be protected by flood control structures.

This map is for flood insurance purposes only; it does not necessarily show all areas subject to flooding in the community or all planimetric features outside special flood hazard areas.

For adjoining map panels, see separately printed Index To Map Panels.



NATIONAL FLOOD INSURANCE PROGRAM

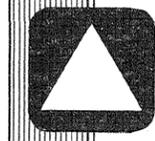
FIRM FLOOD INSURANCE RATE MAP

TOWN OF
MANSFIELD,
CONNECTICUT
TOLLAND COUNTY

PANEL 5 OF 20

COMMUNITY-PANEL NUMBER
090128 0005 C

EFFECTIVE DATE:
JANUARY 2, 1981



federal emergency management agency
federal insurance administration

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.msc.fema.gov

Figure 3

Natural Diversity Data Base Areas

MANSFIELD, CT

December 2013

 State and Federal Listed Species & Significant Natural Communities

 Town Boundary

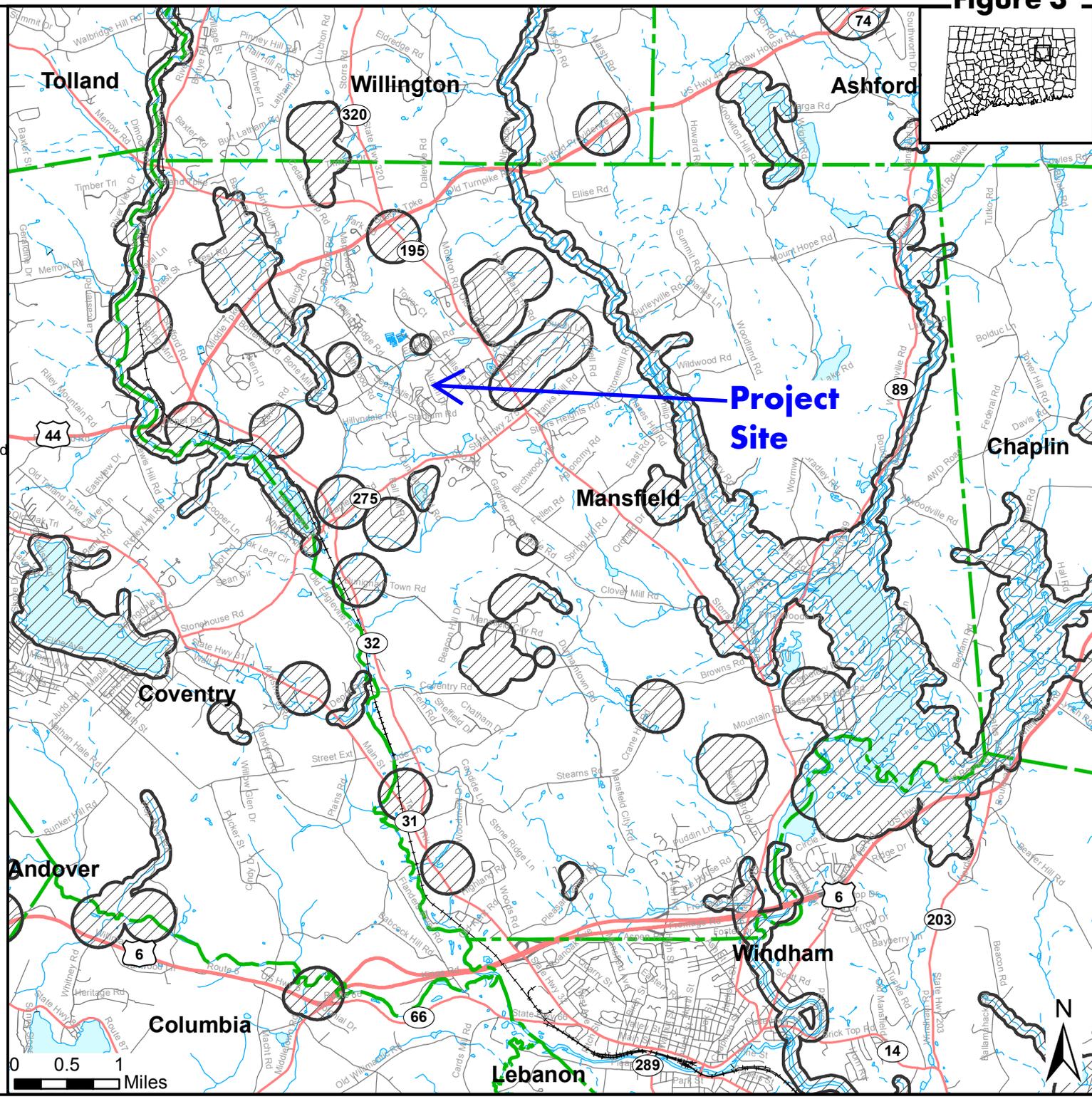
NOTE: This map shows general locations of State and Federal Listed Species and Significant Natural Communities. Information on listed species is collected and compiled by the Natural Diversity Data Base (NDDB) from a number of data sources. Exact locations of species have been buffered to produce the general locations. Exact locations of species and communities occur somewhere in the shaded areas, not necessarily in the center. A new mapping format is being employed that more accurately models important riparian and aquatic areas and eliminates the need for the upstream/downstream searches required in previous versions.

This map is intended for use as a preliminary screening tool for conducting a Natural Diversity Data Base Review Request. To use the map, locate the project boundaries and any additional affected areas. If the project is within a shaded area there may be a potential conflict with a listed species. For more information, complete a Request for Natural Diversity Data Base State Listed Species Review form (DEP-APP-007), and submit it to the NDDDB along with the required maps and information. More detailed instructions are provided with the request form on our website.

www.ct.gov/deep/nddbrequest

This file has PDF Layers. Look for the Layers tab on the left. Expand the layers and use the "eye" icons to change visibility.

QUESTIONS: Department of Energy and Environmental Protection (DEEP)
79 Elm St., Hartford CT 06106
Phone (860) 424-3011



AQUIFER PROTECTION AREAS

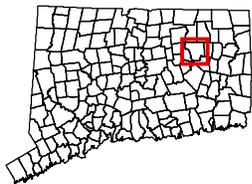
Mansfield, CT

December 16, 2013

-  Level A APA (Final Adopted)
-  Level A APA (Final)
-  Level B APA (Preliminary)
-  Town Boundary

NOTE: This map shows Connecticut's Aquifer Protection Areas, as delineated through the Level A and Level B Mapping Processes. Aquifer Protection Areas are delineated for active public water supply wells in stratified drift that serve more than 1000 people, in accordance with Sections 22a-354c and 22a-354z of the Connecticut General Statutes. Level B Mapping delineates a preliminary aquifer protection area, providing an estimate of the land area from which the well draws its water. Level A Mapping delineates the final Aquifer Protection Area, which becomes the regulatory boundary for land use controls designed to protect the well from contamination. As Level A Mapping is completed for each well field and approved by DEEP, it will replace the Level B Mapping. Towns that have adopted the Aquifer Protection Areas at the local level and for which landuse regulations are now in place are designated by the solid pink/red shading.

QUESTIONS:
Bureau of Water Protection and Land Reuse
Planning and Standards Division
Phone: (860) 424-3020
www.ct.gov/deep/aquiferprotection



STATE OF CONNECTICUT
DEPARTMENT OF
ENERGY & ENVIRONMENTAL PROTECTION
79 Elm Street
Hartford, CT 06106-5127

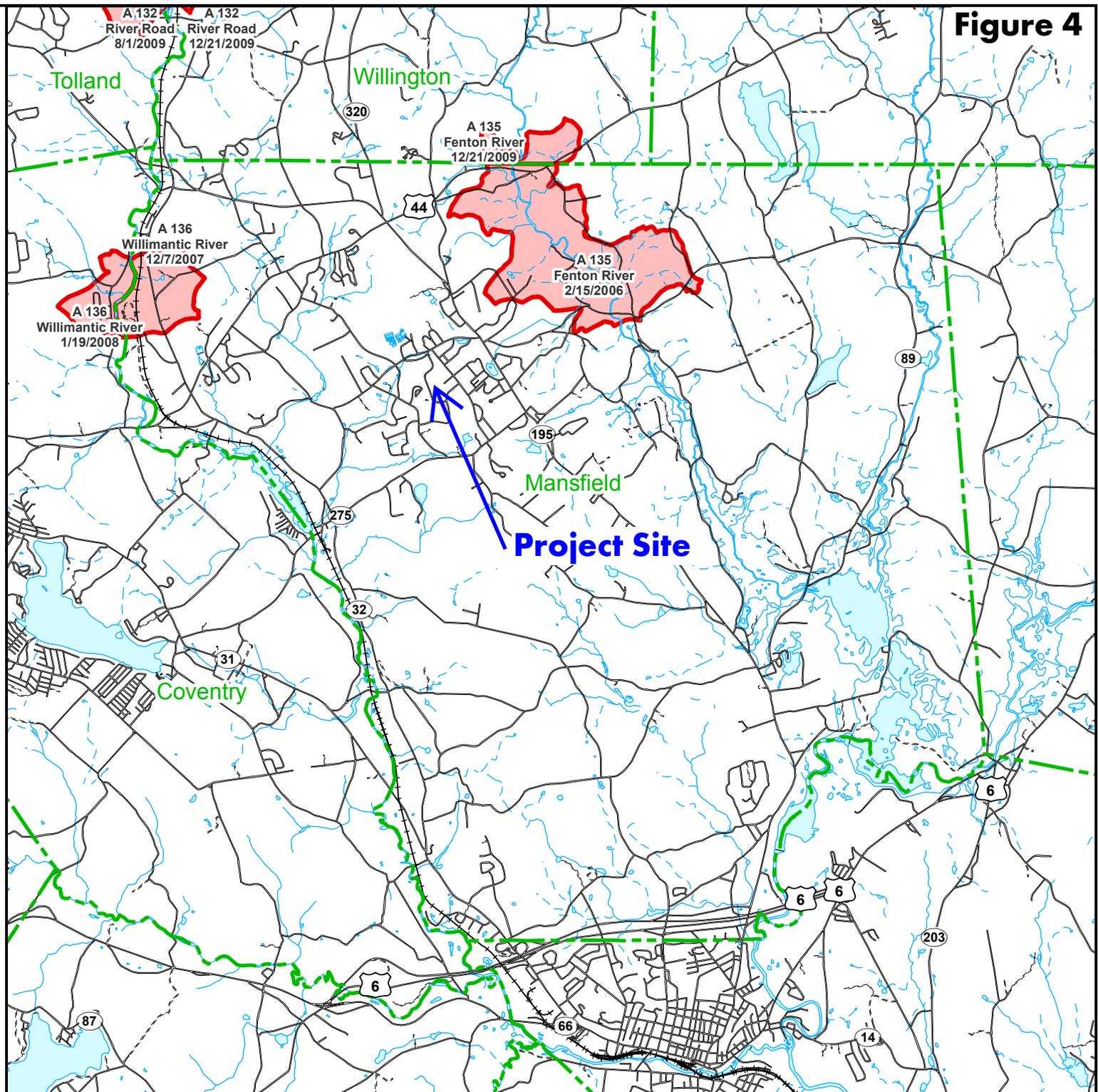


Figure 4



Wetland Delineation Report

Date: April 28, 2014

Project No./Title: 20131455.A10/UConn, STEM Residence Hall

Prepared For: University of Connecticut
Storrs, Connecticut

Site Location: Proposed Science Technology Engineering and Math (STEM)
Residence Hall, Alumni Drive, Storrs, Connecticut

Site Map: Wetland Sketch Map, Dated April 5, 2014

Inspection Date: April 5, 2014

Weather: Cloudy, 48°F **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

Field Numbering Sequence of Wetlands Boundary

[as depicted on attached wetland sketch map]: A100-A105 (closed loop)

On-site wetlands were delineated in accordance with applicable local, state and federal statutes, regulations and guidance. Classification and mapping of soils on the site were conducted in a manner consistent with the U.S. Department of Agriculture Soil Survey Manual (Soil Survey Staff, 1992). This delineation does not constitute an official wetland boundary until such time as it is accepted and approved by local, state or federal regulatory agencies.

The wetlands delineation was conducted by:

Sara S. Fusco
Wetland Scientist/Soil Scientist

146 Hartford Road
Manchester, CT
06040
t 860.646.2469
800.286.2469
f 860.533.5143
www.fando.com

Connecticut
Massachusetts
Rhode Island
South Carolina



University of Connecticut
STEM Residence Hall
Storrs, Connecticut

Regulations

Wetland and watercourse resources located on property owned by the University of Connecticut (UConn) are regulated by the Connecticut Department of Energy and Environmental Protection (CTDEEP) through the State Inland Wetlands and Watercourses Permit program. Connecticut inland wetlands and watercourses are regulated by CGS, Chapter 440, Sections 22a-36 to 22a-45 (Inland Wetlands and Watercourses Act (IWWA)), which defines wetlands as *soil types designated as poorly drained, very poorly drained, alluvial, and floodplain by the National Cooperative Soils Survey*.

Watercourses are defined within the IWWA 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. Intermittent watercourses are identified by the presence of a defined permanent channel and bank and the occurrence of two or more of the following characteristics: (A) evidence of scour or deposits of recent alluvium or detritus, (B) the presence of standing or flowing water for a duration longer than a particular storm incident, and (C) the presence of hydrophytic vegetation*.

Federal jurisdictional wetland boundaries are defined by 33 CFR 328-329. The Federal definition classifies wetlands as *those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions*. Federal wetlands were delineated in accordance with the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region* (Version 2.0, January 2012). Activities occurring within Inland Waters and Wetlands within the State of Connecticut are subject to approval by the US Army Corps of Engineers, New England District.

Methodology

A wetland scientist and registered professional soil scientist with Fuss & O'Neill, Inc. performed a field investigation and wetland delineation at the site of the proposed STEM Residence Hall on April 5, 2014 in accordance with State and Federal regulations and guidelines. The field investigation focused on the proposed development area provided to Fuss & O'Neill by UConn and adjacent areas within 100 feet (referred to herein as the "Study Area"). The Study Area was investigated for the presence of wetland resources by walking multiple transects over the landscape.

Soils were investigated at various locations along each transect to a depth of 24 inches with the use of a spade and Dutch auger. Soil profiles were examined for signs of wetland hydrology (organic matter accumulation, oxidized rhizospheres, redoximorphic features in the surface layers, etc.). Wetland plants (hydrophytes) and other indicators of wetland hydrology (surface water, water-stained leaves, morphological plant adaptations, etc.) were also assessed during the wetland determination.



University of Connecticut
STEM Residence Hall
Storrs, Connecticut

Map Review

Web Soil Survey (WSS) soil mapping, provided by the United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) and compiled by the National Cooperative Soil Survey (NCSS), were also reviewed as part of the wetland investigation along with National Wetlands Inventory (NWI) wetland mapping provided by the U.S. Fish and Wildlife Service. Natural resources information obtained from Connecticut Environmental Conditions Online (CTDEEP & CLEAR, 2013) was also utilized as part of the investigation.

The soils within the Study Area are classified as Udorthents-Urban land complex (306) on the WSS map of the area. This miscellaneous soil classification is assigned to areas that have been cut or filled to an extent of 2 feet or greater and are developed with buildings, pavement and landscaping. No wetland resource areas are depicted within or adjacent to the Study Area. The nearest wetland resource areas are depicted at a location approximately 1,000-feet west of the Site. A WSS Soil Map and Soil Report of the Study Area and vicinity are attached

Current NDDDB mapping, dated December 2013, indicates that no areas of concern exist within the proposed project area. The nearest identified CT NDDDB area of concern is located approximately 1,000 feet northwest of the Study Area.

Field Investigation Results

The Study Area is located within a disturbed urban environment. It has been altered by filling and grading activities associated with the UConn campus development. The area includes a discus/hammer throw field, a sand volleyball court, mown lawns and sidewalks. Wooded upland and a small wooded wetland also occur within the Study Area. Topography in this location generally trends to the north and northeast.

The wooded upland is located west of the discus/hammer throw field. Dominant vegetation within the wooded upland includes: hemlock (*Tsuga Canadensis*), juniper (*Juniperus spp.*), gray birch (*Betula populifolia*), hickory (*Carya spp.*), red oak (*Quercus rubra*), maple-leaved viburnum (*Viburnum acerifolium*), and rattlesnake-plantain (*Goodyera pubescens*). Soils within the wooded upland area are similar to the Paxton series, consisting of well-drained soils formed in lodgement till. A narrow upland scrub-shrub area is located directly southwest of the Sherman Family Sports Complex bleachers, it is dominated by invasive European buckthorn (*Rhamnus cathartica*).

One small (\pm 935 SF), isolated, wetland was identified and delineated within the Study Area. It is located in the wooded area south of the discus/hammer throw field. Shallow ponded water, less than 2-inches in depth, was observed in the wetland at the time of the inspection. Dominant



University of Connecticut
STEM Residence Hall
Storrs, Connecticut

vegetation within and adjacent to the wooded wetland includes: red maple (*Acer rubrum*), eastern cottonwood (*Populus deltoids*), gray birch, ironwood (*Carpinus caroliniana*), multiflora rose (*Rosa multiflora*), brambles (*rubus spp.*), and Japanese knotweed (*Fallopia japonica*). The wetland soil type is similar to the Ridgebury series, consisting of deep, poorly-drained soil formed in till. Evidence of grading and fill disturbances associated with the surrounding development was noted within and adjacent to the wetland. Stone/gravel and 0-6 inches of sand fill is located within the wetland. Fill to a depth of 8 inches and greater was noted around the perimeter of the wetland and adjacent upland areas. As such, the wetland is likely a relic of a larger wetland system that existed before the present conditions.

The wetland within the Study Area meets both the State and Federal wetland definition criteria. No other regulated wetland resource areas were identified within the Study Area. Two sample locations, 1W (wetland) and 1U (upland), are detailed on the attached Federal *Wetland Determination Data Forms*. The sample locations are depicted on the attached *Wetland Sketch Map*.

Wetland Functions and Values Assessment

The functions and values of the wetland were evaluated through the use of *The Highway Methodology Workbook Supplement, Wetland Functions and Values: A Description Approach* issued by the U.S. Army Corps of Engineers, New England District, September 1999. The results of the evaluation found that the wetland does not provide principal or secondary wetland functions or values. The ability of the wetland to provide wetland functions and values at a significant level is limited due to its small size, disturbed condition, isolation from other wetland resources, and surrounding developed land use.

ATTACHMENTS

- Wetland Sketch Map
- Federal Wetland Delineation Data Forms
- WSS Soil Map
- WSS Soil Report

Wetland Delineation

Sketch Map

UConn, STEM Res. Hall
Storrs, Connecticut

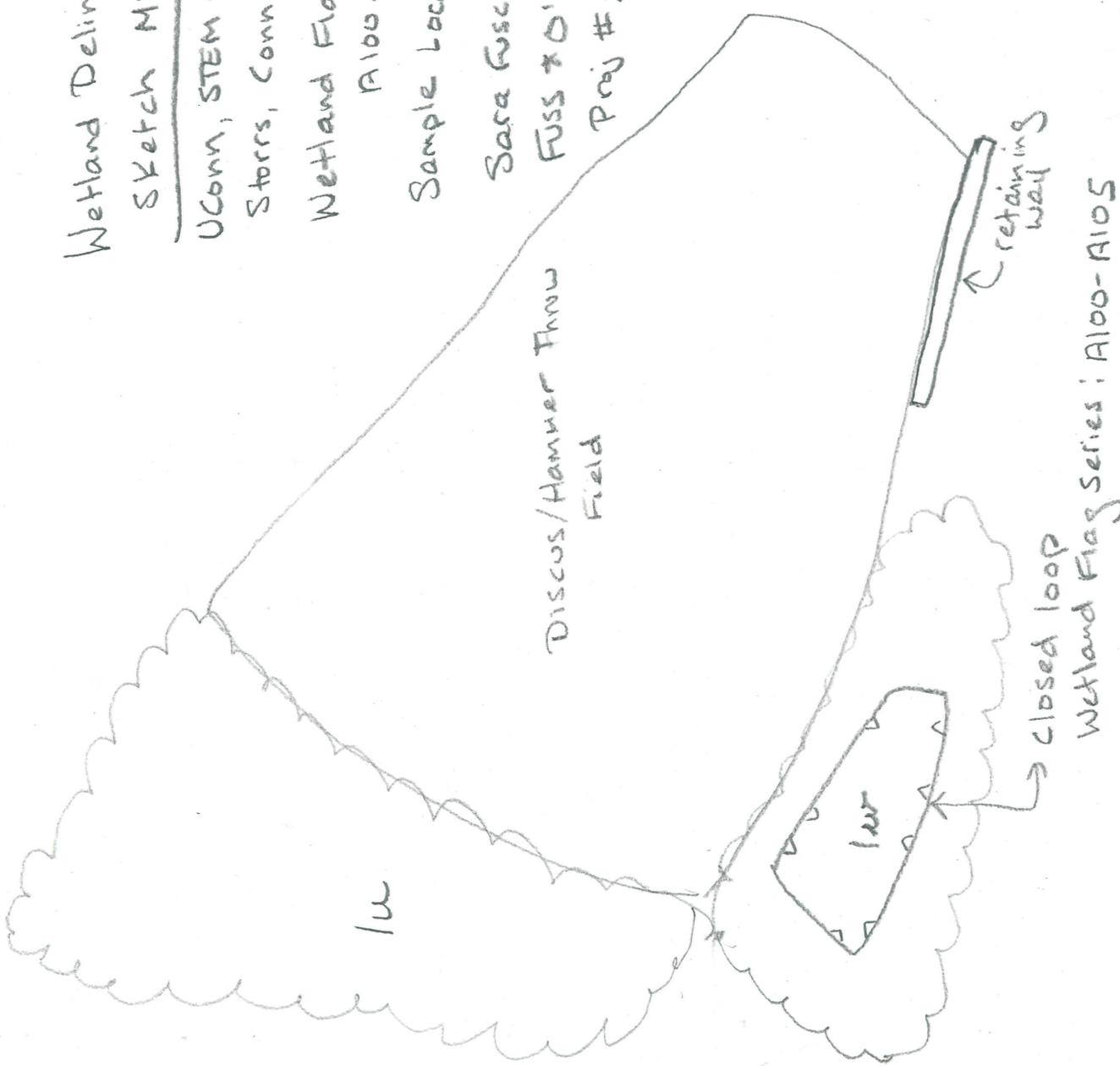
Wetland Flag Series:
A100-A105

Sample Locations: 1U & 1UR

Sara Fusco, Soil Scientist

Fuss & O'Neill 4/5/14

Proj # 20131455.A10



Wetland Flag Series: A100-A105

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: UConn, Alumni Dr. (STEM) City/County: Storrs Sampling Date: 4/5/14
 Applicant/Owner: UConn State: CT Sampling Point: 1u
 Investigator(s): Sara Fusco Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): hill slope Local relief (concave, convex, none): NONE Slope (%): 23%
 Subregion (LRR or MLRA): LRR2 Lat: 41°48'21.78"N Long: -72°15'32.58"W Datum: NAD83
 Soil Map Unit Name: Paxton (Field ID) NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/> Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) <div style="text-align: center; font-size: 2em;">N/A</div>	

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____	Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

N/A

Remarks:
 Wooded upland west of hammer throw field.

VEGETATION – Use scientific names of plants.

Sampling Point: 111

Tree Stratum (Plot size: <u>30</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Betula populifolia</u>	<u>35</u>	<u>Yes</u>	<u>FAC</u>
2. <u>Quercus rubra</u>	<u>15</u>	<u>Yes</u>	<u>FACU</u>
3. <u>Carya spp.</u>	<u>10</u>	<u>No</u>	<u>—</u>
4. <u>Tsuga Canadensis</u>	<u>5</u>	<u>No</u>	<u>FACU</u>
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____

65 = Total Cover

Sapling/Shrub Stratum (Plot size: <u>15</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Viburnum acerifolium</u>	<u>5%</u>	<u>Yes</u>	<u>UPL</u>
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____

5% = Total Cover

Herb Stratum (Plot size: <u>5</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Goodyera pubescens</u>	<u>2%</u>	<u>Yes</u>	<u>FACU</u>
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____
8. _____	_____	_____	_____
9. _____	_____	_____	_____
10. _____	_____	_____	_____
11. _____	_____	_____	_____
12. _____	_____	_____	_____

_____ = Total Cover

Woody Vine Stratum (Plot size: <u>30</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____

0 = Total Cover

Remarks: (Include photo numbers here or on a separate sheet.)

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 25% (A/B)

Prevalence Index worksheet:

Total % Cover of:	_____	Multiply by:	_____
OBL species	_____	x 1 =	_____
FACW species	_____	x 2 =	_____
FAC species	_____	x 3 =	_____
FACU species	_____	x 4 =	_____
UPL species	_____	x 5 =	_____
Column Totals:	_____ (A)	_____ (B)	

Prevalence Index = B/A = _____

- Hydrophytic Vegetation Indicators:**
- 1 - Rapid Test for Hydrophytic Vegetation
 - 2 - Dominance Test is >50%
 - 3 - Prevalence Index is ≤3.0¹
 - 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
 - Problematic Hydrophytic Vegetation¹ (Explain)
- ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes _____ No _____

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: UConn, Alumni Dr. (STEM) City/County: Storrs Sampling Date: 4/5/14
 Applicant/Owner: UConn State: _____ Sampling Point: 12
 Investigator(s): S. Wisco Section, Township, Range: _____

Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): concave Slope (%): 0

Subregion (LRR or MLRA): LRR 2 Lat: 41°48'21.78"N Long: -72°15'32.58"W Datum: NAD 83

Soil Map Unit Name: Ridgebury (Disturbed - Field ID) NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)

Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes _____ No

Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____ Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____ Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____ If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) <p align="center" style="font-size: 1.2em;">disturbed wetland - fill around perimeter + within wetland.</p>	

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Surface Water (A1) <input checked="" type="checkbox"/> High Water Table (A2) <input checked="" type="checkbox"/> Saturation (A3) <input checked="" type="checkbox"/> Water Marks (B1) ___ Sediment Deposits (B2) ___ Drift Deposits (B3) ___ Algal Mat or Crust (B4) ___ Iron Deposits (B5) ___ Inundation Visible on Aerial Imagery (B7) ___ Sparsely Vegetated Concave Surface (B8) <input checked="" type="checkbox"/> Water-Stained Leaves (B9) ___ Aquatic Fauna (B13) ___ Marl Deposits (B15) ___ Hydrogen Sulfide Odor (C1) <input checked="" type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input checked="" type="checkbox"/> Presence of Reduced Iron (C4) ___ Recent Iron Reduction in Tilled Soils (C6) ___ Thin Muck Surface (C7) ___ Other (Explain in Remarks) 	Secondary Indicators (minimum of two required) <ul style="list-style-type: none"> ___ Surface Soil Cracks (B6) ___ Drainage Patterns (B10) <input checked="" type="checkbox"/> Moss Trim Lines (B16) ___ Dry-Season Water Table (C2) ___ Crayfish Burrows (C8) ___ Saturation Visible on Aerial Imagery (C9) ___ Stunted or Stressed Plants (D1) ___ Geomorphic Position (D2) ___ Shallow Aquitard (D3) <input checked="" type="checkbox"/> Microtopographic Relief (D4) ___ FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): <u>2"</u> Water Table Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): <u>Surface</u> Saturation Present? (includes capillary fringe) Yes <input checked="" type="checkbox"/> No _____ Depth (inches): <u>Surface</u>	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
 Wooded wetland, west of discus/hammer throw field.
 Significantly disturbed by historic fill impacts.

VEGETATION – Use scientific names of plants.

Sampling Point: lw

Tree Stratum (Plot size: <u>30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Acer rubrum</u>	<u>30</u>	<u>Yes</u>	<u>FAC</u>
2. <u>Populus deltoides</u>	<u>25</u>	<u>Yes</u>	<u>FAC</u>
3. <u>Betula populifolia</u>	<u>15</u>	<u>Yes</u>	<u>FAC</u>
4. <u>Carpinus caroliniana</u>	<u>5</u>	<u>NO</u>	<u>FAC</u>
5. _____			
6. _____			
7. _____			

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)

Total Number of Dominant Species Across All Strata: 6 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 83% (A/B)

75 = Total Cover

Sapling/Shrub Stratum (Plot size: <u>15'</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Rosa multiflora</u>	<u>10</u>	<u>Yes</u>	<u>FACU</u>
2. <u>Rubus spp.</u>	<u>5</u>	<u>Yes</u>	<u>—</u>
3. _____			
4. _____			
5. _____			
6. _____			
7. _____			

Prevalence Index worksheet:

Total % Cover of: _____ Multiply by:

OBL species _____ x 1 = _____

FACW species _____ x 2 = _____

FAC species _____ x 3 = _____

FACU species _____ x 4 = _____

UPL species _____ x 5 = _____

Column Totals: _____ (A) _____ (B)

Prevalence Index = B/A = _____

15 = Total Cover

Herb Stratum (Plot size: <u>5'</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Fallopia japonica</u>	<u>3</u>	<u>Yes</u>	<u>—</u>
2. _____			
3. _____			
4. _____			
5. _____			
6. _____			
7. _____			
8. _____			
9. _____			
10. _____			
11. _____			
12. _____			

- Hydrophytic Vegetation Indicators:**
- 1 - Rapid Test for Hydrophytic Vegetation
 - 2 - Dominance Test is >50%
 - 3 - Prevalence Index is ≤3.0¹
 - 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
 - Problematic Hydrophytic Vegetation¹ (Explain)
- ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

3 = Total Cover

Woody Vine Stratum (Plot size: <u>30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____			
2. _____			
3. _____			
4. _____			
5. _____			
6. _____			
7. _____			
8. _____			
9. _____			
10. _____			
11. _____			
12. _____			

0 = Total Cover

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes ✓ No _____

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 1W

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
1	2.5Y 3/2						SI	Saturated to surface
4	2.5Y 5/3						Sand	
8	10YR 4/2						SI	
14	10YR 4/1		5YR 4/4	8	C	M	SI	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

- | | | |
|---|--|--|
| Hydric Soil Indicators: | | Indicators for Problematic Hydric Soils³: |
| <input type="checkbox"/> Histic Epipedon (A2) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) | <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) | <input type="checkbox"/> Coast Prairie Redox (A16) (LRR K, L, R) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) | <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) |
| <input type="checkbox"/> Stratified Layers (A5) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) | <input type="checkbox"/> Dark Surface (S7) (LRR K, L) |
| <input checked="" type="checkbox"/> Depleted Below Dark Surface (A11) | <input checked="" type="checkbox"/> Depleted Matrix (F3) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Redox Dark Surface (F6) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Depleted Dark Surface (F7) | <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Redox Depressions (F8) | <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) |
| <input type="checkbox"/> Sandy Redox (S5) | | <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) |
| <input type="checkbox"/> Stripped Matrix (S6) | | <input type="checkbox"/> Red Parent Material (F21) |
| <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) | | <input type="checkbox"/> Very Shallow Dark Surface (TF12) |
| | | <input type="checkbox"/> Other (Explain in Remarks) |

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

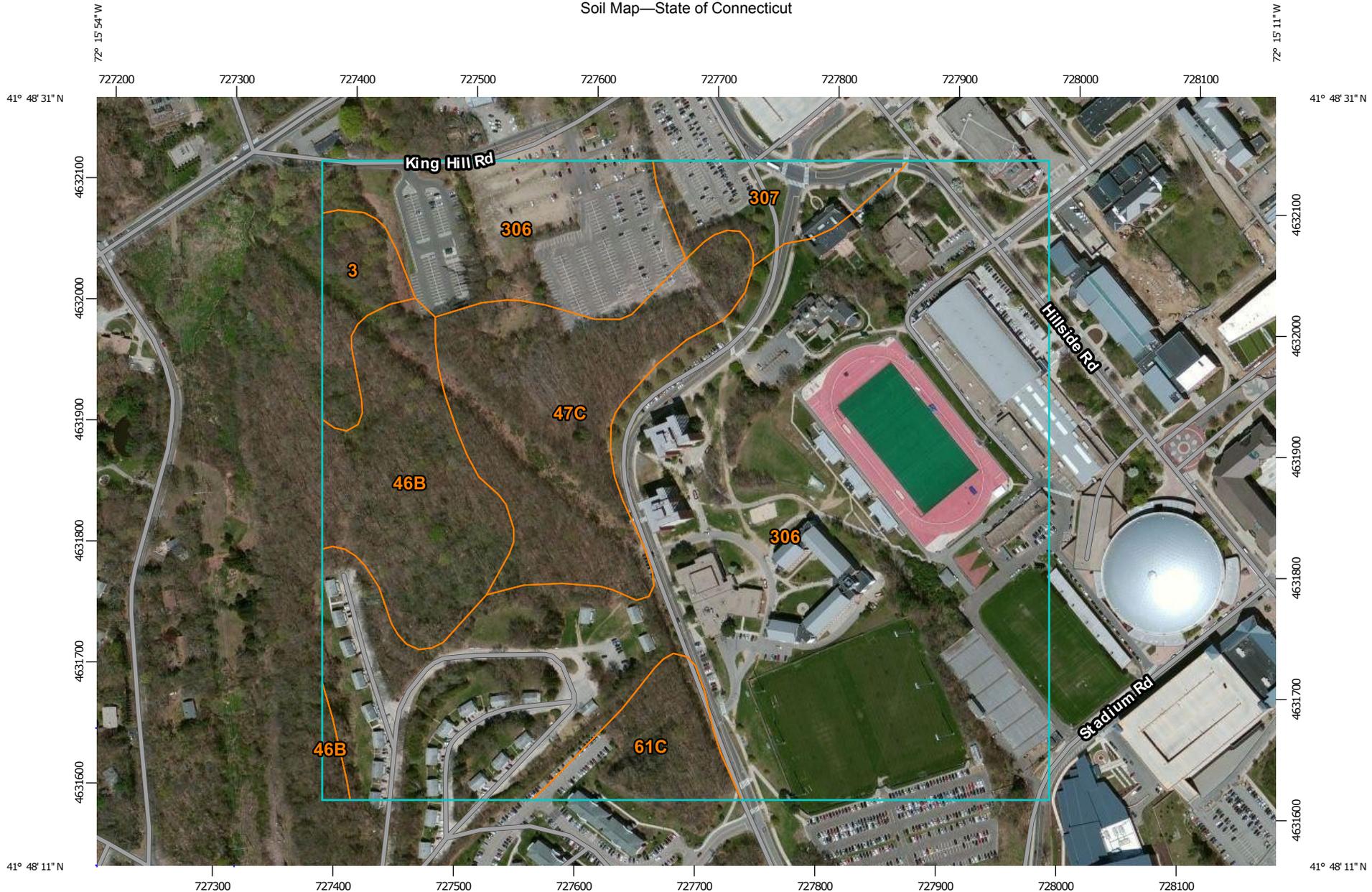
Depth (inches): _____

Hydric Soil Present? Yes No

Remarks:

Small, disturbed wet depression. Sand fill and stone/gravel fill within wetland (0-6"). Fill around wetland is >8".

Soil Map—State of Connecticut



Map Scale: 1:4,470 if printed on A landscape (11" x 8.5") sheet.

0 50 100 200 300 Meters

0 200 400 800 1200 Feet

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 18N WGS84



MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

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

Water Features

 Streams and Canals

Transportation

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

Background

 Aerial Photography

MAP INFORMATION

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

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

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

Source of Map: Natural Resources Conservation Service
 Web Soil Survey URL: <http://websoilsurvey.nrcs.usda.gov>
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

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 11, Nov 19, 2013

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Mar 28, 2011—May 12, 2011

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
3	Ridgebury, Leicester, and Whitman soils, extremely stony	2.0	2.5%
46B	Woodbridge fine sandy loam, 2 to 8 percent slopes, very stony	7.1	9.0%
47C	Woodbridge fine sandy loam, 2 to 15 percent slopes, extremely stony	9.1	11.5%
61C	Canton and Charlton soils, 8 to 15 percent slopes, very stony	2.8	3.5%
306	Udorthents-Urban land complex	55.3	69.9%
307	Urban land	2.8	3.6%
Totals for Area of Interest		79.0	100.0%

Map Unit Description (Brief, Generated)

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey 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, Generated) report displays a generated description of the major soils that occur in a map unit. Descriptions of non-soil (miscellaneous areas) and minor map unit components are not included. This description is generated from the underlying soil attribute data.

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, Generated)

State of Connecticut

Map Unit: 3—Ridgebury, Leicester, and Whitman soils, extremely stony

Component: Ridgebury (40%)

The Ridgebury component makes up 40 percent of the map unit. Slopes are 0 to 5 percent. This component is on depressions on uplands, drainageways on uplands. The parent material consists of coarse-loamy lodgment till derived from granite and/or schist and/or gneiss. Depth to a root restrictive layer, densic material, is 20 to 30 inches. The natural drainage class is poorly drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is very low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 3 inches during January, February, March, April, May, November, December. Organic matter content in the surface horizon is about 6 percent. Nonirrigated land capability classification is 7s. This soil meets hydric criteria.

Component: Leicester (35%)

The Leicester component makes up 35 percent of the map unit. Slopes are 0 to 5 percent. This component is on depressions on uplands, drainageways on uplands. The parent material consists of coarse-loamy melt-out till derived from granite and/or schist and/or gneiss. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is poorly drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 9 inches during January, February, March, April, May, November, December. Organic matter content in the surface horizon is about 70 percent. Nonirrigated land capability classification is 7s. This soil meets hydric criteria.

Component: Whitman (15%)

The Whitman component makes up 15 percent of the map unit. Slopes are 0 to 2 percent. This component is on depressions on uplands, drainageways on uplands. The parent material consists of coarse-loamy lodgment till derived from granite and/or schist and/or gneiss. Depth to a root restrictive layer, densic material, is 12 to 20 inches. The natural drainage class is very poorly drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is very low. Shrink-swell potential is low. This soil is not flooded. It is occasionally ponded. A seasonal zone of water saturation is at 0 inches during January, February, March, April, May, June, October, November, December. Organic matter content in the surface horizon is about 60 percent. Nonirrigated land capability classification is 7s. This soil meets hydric criteria.

Component: Unnamed, frequently flooded (2%)

Generated brief soil descriptions are created for major components. The Unnamed soil is a minor component.

Component: Woodbridge (2%)

Generated brief soil descriptions are created for major components. The Woodbridge soil is a minor component.

Component: Unnamed, steep slopes (2%)

Generated brief soil descriptions are created for major components. The Unnamed soil is a minor component.

Component: Sutton (2%)

Generated brief soil descriptions are created for major components. The Sutton soil is a minor component.

Component: Unnamed, silt loam surface (1%)

Generated brief soil descriptions are created for major components. The Unnamed soil is a minor component.

Component: Unnamed, nonstony (1%)

Generated brief soil descriptions are created for major components. The Unnamed soil is a minor component.

Map Unit: 46B—Woodbridge fine sandy loam, 2 to 8 percent slopes, very stony

Component: Woodbridge (80%)

The Woodbridge component makes up 80 percent of the map unit. Slopes are 2 to 8 percent. This component is on drumlins on uplands, hills on uplands. The parent material consists of coarse-loamy lodgment till derived from granite and/or schist and/or gneiss. Depth to a root restrictive layer, densic material, is 20 to 40 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 24 inches during January, February, March, April, May, November, December. Organic matter content in the surface horizon is about 4 percent. Nonirrigated land capability classification is 6s. This soil does not meet hydric criteria.

Component: Paxton (5%)

Generated brief soil descriptions are created for major components. The Paxton soil is a minor component.

Component: Montauk (3%)

Generated brief soil descriptions are created for major components. The Montauk soil is a minor component.

Component: Ridgebury (3%)

Generated brief soil descriptions are created for major components. The Ridgebury soil is a minor component.

Component: Sutton (2%)

Generated brief soil descriptions are created for major components. The Sutton soil is a minor component.

Component: Leicester (2%)

Generated brief soil descriptions are created for major components. The Leicester soil is a minor component.

Component: Unnamed, loamy substratum (2%)

Generated brief soil descriptions are created for major components. The Unnamed soil is a minor component.

Component: Georgia (1%)

Generated brief soil descriptions are created for major components. The Georgia soil is a minor component.

Component: Whitman (1%)

Generated brief soil descriptions are created for major components. The Whitman soil is a minor component.

Component: Stockbridge (1%)

Generated brief soil descriptions are created for major components. The Stockbridge soil is a minor component.

Map Unit: 47C—Woodbridge fine sandy loam, 2 to 15 percent slopes, extremely stony

Component: Woodbridge (80%)

The Woodbridge component makes up 80 percent of the map unit. Slopes are 2 to 15 percent. This component is on drumlins on uplands, hills on uplands. The parent material consists of coarse-loamy lodgment till derived from granite and/or schist and/or gneiss. Depth to a root restrictive layer, densic material, is 20 to 40 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 24 inches during January, February, March, April, May, November, December. Organic matter content in the surface horizon is about 4 percent. Nonirrigated land capability classification is 7s. This soil does not meet hydric criteria.

Component: Paxton (5%)

Generated brief soil descriptions are created for major components. The Paxton soil is a minor component.

Component: Ridgebury (3%)

Generated brief soil descriptions are created for major components. The Ridgebury soil is a minor component.

Component: Montauk (3%)

Generated brief soil descriptions are created for major components. The Montauk soil is a minor component.

Component: Unnamed, loamy substratum (2%)

Generated brief soil descriptions are created for major components. The Unnamed soil is a minor component.

Component: Sutton (2%)

Generated brief soil descriptions are created for major components. The Sutton soil is a minor component.

Component: Leicester (2%)

Generated brief soil descriptions are created for major components. The Leicester soil is a minor component.

Component: Georgia (1%)

Generated brief soil descriptions are created for major components. The Georgia soil is a minor component.

Component: Stockbridge (1%)

Generated brief soil descriptions are created for major components. The Stockbridge soil is a minor component.

Component: Whitman (1%)

Generated brief soil descriptions are created for major components. The Whitman soil is a minor component.

Map Unit: 61C—Canton and Charlton soils, 8 to 15 percent slopes, very stony

Component: Canton (45%)

The Canton component makes up 45 percent of the map unit. Slopes are 8 to 15 percent. This component is on hills on uplands. The parent material consists of coarse-loamy over sandy and gravelly melt-out till derived from granite and/or schist and/or gneiss. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 70 percent. Nonirrigated land capability classification is 6s. This soil does not meet hydric criteria.

Component: Charlton (35%)

The Charlton component makes up 35 percent of the map unit. Slopes are 8 to 15 percent. This component is on hills, uplands. The parent material consists of coarse-loamy melt-out till derived from granite and/or schist and/or gneiss. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 4 percent. Nonirrigated land capability classification is 6s. This soil does not meet hydric criteria.

Component: Chatfield (5%)

Generated brief soil descriptions are created for major components. The Chatfield soil is a minor component.

Component: Hollis (5%)

Generated brief soil descriptions are created for major components. The Hollis soil is a minor component.

Component: Sutton (5%)

Generated brief soil descriptions are created for major components. The Sutton soil is a minor component.

Component: Leicester (5%)

Generated brief soil descriptions are created for major components. The Leicester soil is a minor component.

Map Unit: 306—Udorthents-Urban land complex

Component: Udorthents (50%)

The Udorthents component makes up 50 percent of the map unit. Slopes are 0 to 25 percent. This component is on urban land. The parent material consists of drift. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is low. Available water to a depth of 60 inches is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 59 inches during January, February, March, April, November, December. Organic matter content in the surface horizon is about 4 percent. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria.

Component: Urban land (35%)

Generated brief soil descriptions are created for major soil components. The Urban land is a miscellaneous area.

Component: Unnamed, undisturbed soils (8%)

Generated brief soil descriptions are created for major components. The Unnamed soil is a minor component.

Component: Udorthents, wet substratum (5%)

Generated brief soil descriptions are created for major components. The Udorthents soil is a minor component.

Component: Rock outcrop (2%)

Generated brief soil descriptions are created for major components. The Rock outcrop soil is a minor component.

Map Unit: 307—Urban land

Component: Urban land (80%)

Generated brief soil descriptions are created for major soil components. The Urban land is a miscellaneous area.

Component: Udorthents, wet substratum (10%)

Generated brief soil descriptions are created for major components. The Udorthents soil is a minor component.

Component: Unnamed, undisturbed soils (10%)

Generated brief soil descriptions are created for major components. The Unnamed soil is a minor component.

Data Source Information

Soil Survey Area: State of Connecticut

Survey Area Data: Version 11, Nov 19, 2013