

TOWN OF VERNON  
Inland Wetlands Commission (IWC)  
Meeting Notice

*Posted 5/19/2020 SBurgis*

**Tuesday, May 26, 2020, 7:00 PM**

VIA Teleconference-Join Zoom Meeting

<https://us02web.zoom.us/j/85311598718?pwd=dXFUTXA5aXN5dDM5R2NkT3IVeDQ2QT09>

Meeting ID: 853 1159 8718

Weblink Password: 1agqGz

OR

Telephone Dial-In

+1 646 876 9923 US (New York)

Meeting ID: 853 1159 8718

Telephone Password: 516204

RECEIVED  
VERNON TOWN CLERK  
20 MAY 19 PM 12:52

## AGENDA

1. Call to Order & Roll Call
2. Administrative Actions
  - 2.1 Amendment/Adoption of Agenda - Additional business to be considered under agenda item #9 "Other Business" requires Commission vote
  - 2.2 Communications received NOT related to Agenda items, if any
  - 2.4 Approval of the Minutes from the April 21, 2020 special meeting
  - 2.5 Call for filing(s) of Intervener petition(s) and determination of status
3. Receipt of New Application(s) and Determination of Significance
  - 3.1 IWC-2020-03, Application of the Town of Vernon for a Wetlands Permit by Commission, for the demolition and replacement of the existing vehicular bridge (bridge number 04575) on Main St., over the Tankerhoosen River (no specific address or parcel id).
  - 3.2 IWC-2020-04, Application of the Town of Vernon for a Wetlands Permit by Commission, for the construction of athletic fields on a 2.25-acre portion of property located on Windermere Ave. (no specific address) near the Ellington Town line (Assessors ID: Map 22, Block 0039, Parcel 00003).
4. Status of Cease & Correct Orders, if any
5. Wetlands Enforcement Officer Report, if any
6. Inland Wetlands Agent Approvals, if any
7. Other Business
8. Adjournment

Rachel Stansel, Chairperson  
Inland Wetlands Commission (IWC)

**Town of Vernon  
Inland Wetlands Commission (IWC)  
SPECIAL MEETING  
Tuesday, April 21, 2020, 7:00 p.m.  
Teleconference Meeting**

**DRAFT MINUTES**

**1. Call to Order and Roll Call**

Chairperson Rachel Stansel called the meeting to order at 7:11 p.m. Also in attendance were Commission Members Don Schubert, and Michael Guminiak. Staff members present were Craig Perry, Wetlands Agent, David Smith, Town Engineer, and George McGregor, Town Planner.

**2. Administrative Actions**

**2.1 Amendment/Adoption of Agenda – Additional business to be considered under agenda item #8 “Other Business” Requires Commission vote**  
None

**2.2 Communications received not related to Agenda Items**  
None

**2.3 Approval of Minutes from the March 24, 2020, meeting**  
*Michael Guminiak made a motion seconded by Chairperson Stansel to approve the minutes of March 24, 2020, as presented. Motion carried unanimously.*

**2.4 Call for filing(s) of Intervener petition(s) and determination of status.**  
None

**3. Public Hearing and Action on Application(s)**

Application [IWC-2020-02] of the Town of Vernon Fire Department for a Re-designation of Wetlands and Wetlands Permit by Commission, for the installation of storage units and fire training apparatus at 724 Hartford Tpke. (Assessor's ID: 27, Block 0066, Parcel 0024B).

Craig Perry, Wetlands Agent, explained the purpose of the application and the re-designation. Some discussion took place.

Present for the public hearing were Judy Ruiz, daughter of Milton Brown adjoining property owner, and Jean Luddy, Barbara Muldoon, and Cheryl Arzt from the Vernon Historical Society.

Jean Luddy had concerns about removing trees or underbrush. Craig Perry commented there is very little underbrush to clear.

Judy Ruiz had a concern about drainage onto the adjoining property as the field is planted and harvested. David Smith commented the town is only replacing the structure, which will have no meaningful impact on drainage run off to the adjacent property.

Chairperson Stansel closed the Public Hearing. No additional comments were made by the Commission.

*Don Schubert made a motion seconded by Chairperson Stansel to accept Application [IWC-2020-02] of the Town of Vernon Fire Department for a Re-designation of Wetlands for the installation of storage units and fire training apparatus at 724 Hartford Tpke. Motion carried unanimously.*

*Michael Guminiak made a motion seconded by Don Schubert to hereby approve Application [IWC-2020-02] of the Town of Vernon Fire Department for a re-designation of Wetlands and a Wetlands permit by Commission for the installation of storage units and fire training apparatus at 724 Hartford Tpk., (Assessor's ID: 27, Block 0066, Parcel 0024B) upon consideration of the decision criteria in Section 10.2 of the Town of Vernon Inland Wetland and Watercourse Regulations, and based upon the following findings:*

- The project will have no adverse impacts on wetlands or watercourses, and;*
- There are no better, feasible, and prudent alternatives to the proposal.*

*Motion carried unanimously.*

4. Status of Cease & Correct Orders if any  
None
5. Wetlands Enforcement Officer Report if any  
None
6. Inland Wetlands Agent Approvals  
None
7. Communications Sent  
None
8. Other Business  
None
9. Adjournment

*Chairperson Stansel adjourned the meeting at 7:34p.m. The next scheduled meeting is May 26, 2020.*

Respectfully Submitted

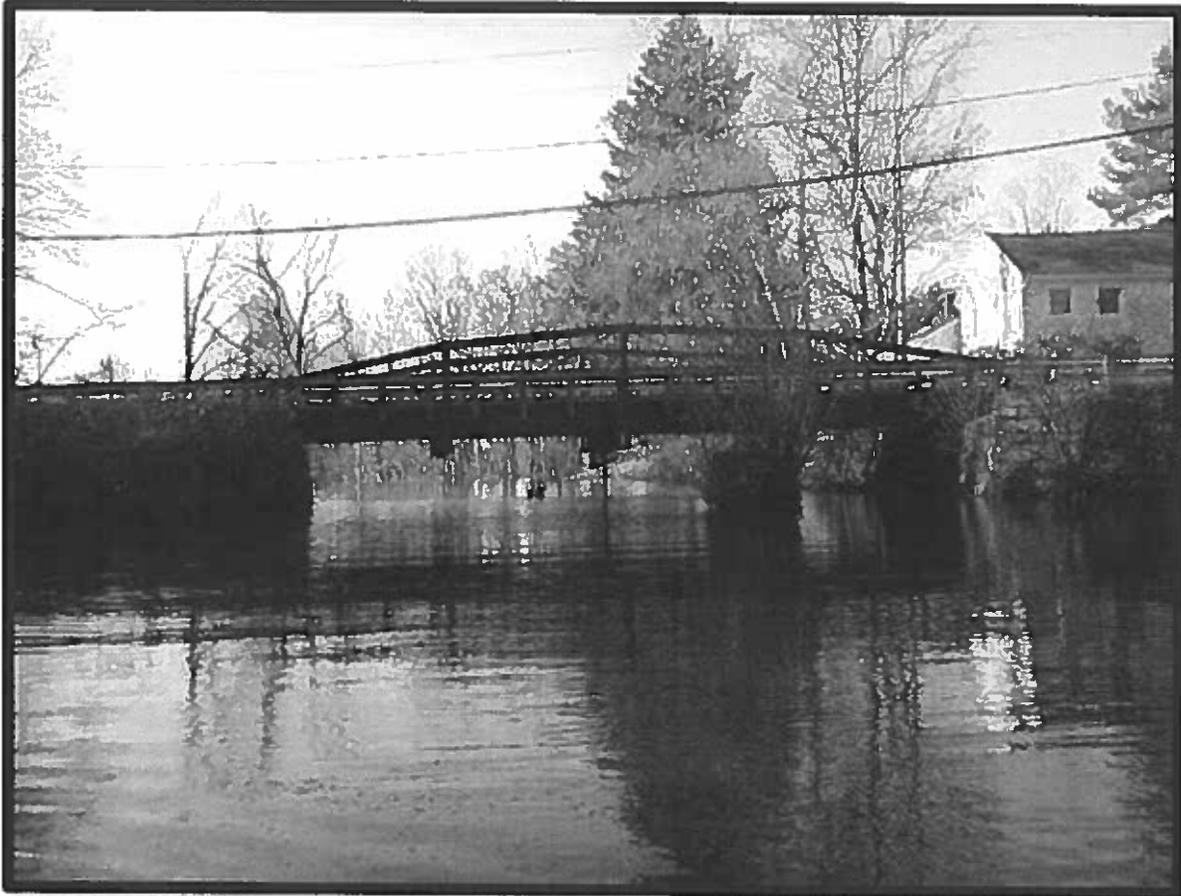
  
Recording Secretary

# **APPLICATION 1**



INLAND WETLANDS AND WATERCOURSES APPLICATION  
MAIN STREET BRIDGE REPLACEMENT  
OVER TANKERHOOSEN RIVER  
VERNON, CONNECTICUT

MAY 2020



CONSULTING ENGINEERS  
& SURVEYORS

1084 Cromwell Avenue  
Rocky Hill, CT 06067  
Tel: 860-436-4364  
MartinezCouch.com



115 Glastonbury Boulevard  
Glastonbury, CT 06033  
Tel: 860-659-1416  
Gm2inc.com

**PREPARED FOR:**

**Town of Vernon**

14 Park Place

Vernon, Connecticut 06066

**PREPARED FOR SUBMISSION TO:**

**Inland Wetlands Commission**

Town of Vernon

**PREPARED BY:**

Martinez Couch & Associates, LLC

**IN CONJUNCTION WITH:**

GM2 Associates, Inc.



CONSULTING ENGINEERS  
& SURVEYORS

1084 Cromwell Avenue Suite, A-2  
Rocky Hill, CT 06067  
Tel: 860-436-4364  
Fax: 860-436-4626  
[www.martinezcouch.com](http://www.martinezcouch.com)

**Inland Wetlands Commission Application**

**ConnDOT Project No:** 146-199

**City/Town:** Town of Vernon, CT

**Project Name:** Replacement of Bridge No. 04575, Main Street over Tankerhoosen River

**TABLE OF CONTENTS**

<u>Submission</u>	Pages
Vernon Inland Wetlands Application .....	3
Supporting Narrative .....	7
 <u>Attachments</u>	
Attachment A: CT DEEP SIWWARF .....	1
Attachment B: Wetlands Report .....	5
Attachment C: Project Plan Set .....	7



# TOWN OF VERNON

## INLAND WETLANDS COMMISSION (IWC)

### APPLICATION

This form is to be used to apply to the Vernon Inland Wetlands Commission (IWC) for approval for a redesignation of a wetlands area, a change to the Inland Wetlands and Watercourses Regulations, and/or a permit to conduct a regulated activity in a wetland, watercourse, or upland review area (URA), which are defined as areas within one hundred (100) feet from the boundary of a wetland, watercourse, or intermittent watercourse and areas within two hundred (200) feet from the boundary of Gage's Brook, Hockanum River, Ogden Brook, Railroad Brook, Tankerhoosen River, Valley Falls Pond, Walker Reservoir East, Walker Reservoir West. Any activity that the Commission determines is likely to impact or affect wetlands or watercourses may be considered a regulated activity. **Provide all the information requested.**

The Applicant must be the property owner, the property owner's agent, the Town of Vernon, or someone with a direct financial interest in the subject property. Said interest shall be explained. If the applicant is not the property owner, written permission for this Application must be obtained from the property owner and submitted by letter signed by the property owner authorizing submission of the Application.

The Applicant understands that the Application is complete only when all information and documents required by IWC have been submitted and that any approval by the IWC relies upon complete and accurate information being provided by the Applicant. Incorrect information provided by the Applicant may make the approval invalid. The IWC may require additional information to be provided by the Applicant.

#### I. APPLICANT (S)

Name: Town of Vernon

Title: \_\_\_\_\_

Company: \_\_\_\_\_

Address: 14 Park Place, Vernon, CT 06066

Telephone: 860-870-3599 Fax: 860-870-3580

E-mail: \_\_\_\_\_

#### II. PROPERTY OWNERS

Name: Town of Vernon

Title: \_\_\_\_\_

Company: \_\_\_\_\_

Address: 14 Park Place, Vernon, CT 06066

Telephone: 860-870-3599 Fax: 860-870-3580

E-mail: \_\_\_\_\_

### III. PROPERTY

Address: Main Street over Tankerhoosen River

Assessor ID Code:      Map # 2      Block # N/A      Lot/Parcel # N/A

Land Record Reference to Deed Description:      Volume: N/A      Page N/A

USGA Location:

Circle the Map Quadrangle Name:      Manchester # 38      **Rockville #39**

Circle the Sub regional Drainage Basin #:      3108      4500      4502      **4503**

Zoning District: R-27 (adjacent to I and Open Space)

### IV. PROJECT

Project Name: Bridge No. 04575, Main Street over Tankerhoosen River

Project Contact Person:

Name: Dennis A. Garceau, P.E.

Title: Project Manager

Company: GM2

Address: 115 Glastonbury Blvd, Glastonbury, CT 06033

Telephone: 860-659-1416 ext. 0139      Fax: \_\_\_\_\_

E-mail: DGarceau@GM2INC.com

### V. PROJECT SUMMARY

Describe the project briefly in regard to the purpose of the project and the activities that will occur. Attach to this application a complete and detailed description with maps and documentation as required by the "The Town of Vernon Inland Wetlands and Watercourses Regulations".

Purpose: Bridge replacement

General Activities: Demolition and replacement of existing vehicular bridge carrying Main Street over the Tankerhoosen River

Regulated Activities:

Watercourse disturbance (linear feet): See attached plans for locations of in water work with 630 Square feet inside turbidity curtains

Wetlands disturbance (acres or sq. ft.): See attached plans for locations of disturbance in wetlands. Temporary Impacts: 175 sq. ft., Permanent Impacts: 20 sq. ft.

Upland Review Area (URA)disturbance: See attached plans for locations of disturbance Area of disturbance in 200' URA from Tankerhoosen River: 20,230 sq. ft.

Nonregulated activities & activities outside URA: See attached plans





1084 Cromwell Avenue Suite, A-2  
Rocky Hill, CT 06067  
Tel: 860-436-4364  
Fax: 860-436-4626  
[www.martinezcouch.com](http://www.martinezcouch.com)

**Inland Wetland Commission Application**

**ConnDOT Project No:** 146-199

**City/Town:** Town of Vernon, CT

**Project Name:** Replacement of Bridge No. 04575, Main Street over Tankerhoosen River

**Vernon Inland Wetlands and Watercourses Regulations requirements:**

**7.5 All applications shall include the following information in writing and on maps or drawings:**

- a. the applicant's name, home and business mailing addresses and telephone numbers; if the applicant is a Limited Liability Corporation or a Corporation the managing member's or responsible corporate officer's name, address, and telephone number;

Applicant's Name: Town of Vernon  
Applicant's Mailing Address: 14 Park Place, Vernon, CT 06066  
Applicant's Telephone Number: 860-870-3599

- b. the applicant's name, home and business mailing addresses and telephone numbers; if the applicant is a Limited Liability Corporation or a Corporation the managing member's or responsible corporate officer's name, address, and telephone number;

Owner's Name: Town of Vernon  
Owner's Mailing Address: 14 Park Place, Vernon, CT 06066  
Owner's Telephone Number: 860-870-3599

- c. **Applicant's Interest in the Land:**

The Applicant is the Town of Vernon, the owner of the right of way that the work is being performed within.

- d. the geographical location of the land which is the subject of the proposed activity and a description of the land in sufficient detail to allow identification of the inland wetlands and watercourses, the area(s) (in acres or square feet) of wetlands or watercourses to be disturbed, soil type(s), and wetland vegetation;

**Geographical Location**

Main Street bridge over Tankerhoosen River located 700± ft. north of Elm Hill Road. The bridge location coordinates are Latitude 41.82216N, Longitude 72.49800W (coordinates obtained from Connecticut Environmental Conditions Online).

**Areas of Disturbance**

Portions of the proposed activity are immediately adjacent to the watercourse of the Tankerhoosen River with temporary and permanent impacts to inland wetlands and



CONSULTING ENGINEERS  
& SURVEYORS

1084 Cromwell Avenue Suite, A-2  
Rocky Hill, CT 06067  
Tel: 860-436-4364  
Fax: 860-436-4626  
[www.martinezcouch.com](http://www.martinezcouch.com)

### Inland Wetland Commission Application

ConnDOT Project No: 146-199

City/Town: Town of Vernon, CT

Project Name: Replacement of Bridge No. 04575, Main Street over Tankerhoosen River

watercourses. The areas of impacts are shown in plan view on the attached plan set on sheet PMT-05 titled 'Wetland Impact Plan'. A summary of the areas of disturbance are,

- Temporary Wetland Impacts: 175 SF
- Permanent Wetland Impacts: 25 Square Feet
- Temporary Watercourses Impacts: 630 Square Feet
- 200' Upland Review Area Disturbance: 20,230 Square Feet

### Soils

Wetland soils were delineated and classified 100 feet Upstream (East) and downstream (West) of the existing bridge along the banks of the Tankerhoosen River. Wetlands flags were numbered 1 to 5, 1 to 5, 1 to 6, and 1 to 5 on the map in the attached wetlands report. The wetlands flags are also shown on the attached drawing set.

Two wetland soil map units were found in the investigation area.

- Raypol Silt loam (map symbol 12) - Parent material of glacial outwash with slopes of 0 to 3 percent having a poorly drained drainage class. Soil type found on upstream and down stream sides of the existing bridge on the North and South banks of the Tankerhoosen river.
- Water (map symbol W) – This mapping unit is used by the NRCS to show open water. This is the *predominant* unit within the stream corridor.

The upland soils found in the investigation include the following,

- Udorthents (map symbol 306) - Parent material of excavated or filled soil with slopes of 0 to 45 percent having a drainage class of well drained to somewhat poorly drained.

### Vegetation

The vegetative cover in the investigation area is a broadleaved deciduous woodland wetland. Along the Northwestern bank of the river a stone masonry wall defines the edge of the wetland and this area is sparsely vegetated.

- e. the purpose and a description of the proposed activity and proposed erosion and sedimentation controls and other management practices and mitigation measures which may be considered as a condition of issuing a permit for the proposed regulated activity including, but not limited to, measures to (1) prevent or minimize pollution or other environmental damage, (2) maintain or enhance existing environmental quality, or (3) in the following order of priority: restore, enhance and create productive wetland or watercourse resources;



CONSULTING ENGINEERS  
& SURVEYORS

1084 Cromwell Avenue Suite, A-2  
Rocky Hill, CT 06067  
Tel: 860-436-4364  
Fax: 860-436-4626  
[www.martinezcouch.com](http://www.martinezcouch.com)

### **Inland Wetland Commission Application**

**ConnDOT Project No:** 146-199

**City/Town:** Town of Vernon, CT

**Project Name:** Replacement of Bridge No. 04575, Main Street over Tankerhoosen River

The purpose of the project is to demolish and reconstruct an existing vehicular bridge carrying Main Street over the Tankerhoosen River. Associated proposed activities include,

- Reconstruction of a portion of Main Street approximately 150' North and 200' South of the Tankerhoosen river of the historic bridge truss
- Rehabilitation and preservation of the historic bridge truss
- Milling and repaving of Main Street cul-de-sac.

The attached plan set identifies the locations of the proposed erosion and sedimentation controls and other management practices and mitigation measures. Measures to minimize pollution and other environmental damage during the proposed activity include the following

- a perimeter sedimentation control system at the edges of land disturbance
- catch basin sedimentation control system at each catch basin inlet structure
- type 3 turbidity curtain at existing bridge abutments
- debris shield for existing bridge superstructure demolition
- containment system for rehabilitation of historic bridge truss

Measures to maintain or enhance existing environmental quality include:

- The replacement bridge substructure will be constructed behind the existing stone masonry substructure upland of the wetland soils and watercourse not requiring a modification of the watercourse.
- The replacement of two catch basin structures South of the bridge with new structures with 4' deep sump catch basins provide an increased measure of stormwater treatment for land are tributary to the structures.

Measures to restore, enhance, and create productive wetland or watercourse resources include:

- The existing bridge deck does not have curbing allowing direct runoff of stormwater from the bridge deck to the Tankerhoosen River. The replacement bridge will have curbing and direct surface stormwater to existing storm drainage systems North and South of the bridge.

- f. alternative which would cause less or no environmental impact to wetlands or watercourses and why the alternative as set forth in the application was chosen; all such alternatives shall be diagramed on a site plan or drawing;**

The proposed activity alternative was selected as the alternative of rehabilitating the existing bridge was determined to be not feasible. The existing bridge was reconstructed in 1995 and was rated with a sufficiency rating of 49.7 with a structural evaluation ration of 4 based on the 2017 Bridge Inspection Report. The proposed alternative will construct new bridge substructure behind the existing dry laid masonry stone abutments.



CONSULTING ENGINEERS  
& SURVEYORS

1084 Cromwell Avenue Suite, A-2  
Rocky Hill, CT 06067  
Tel: 860-436-4364  
Fax: 860-436-4626  
[www.martinezcouch.com](http://www.martinezcouch.com)

**Inland Wetland Commission Application**

**ConnDOT Project No:** 146-199

**City/Town:** Town of Vernon, CT

**Project Name:** Replacement of Bridge No. 04575, Main Street over Tankerhoosen River

- g. the date the application was signed by the applicant;**

See Application.

- h. a site plan showing the proposed activity and existing and proposed conditions, structures, and areas where material may be deposited or removed and the quantity thereof in relation to wetlands and watercourses and identifying any further activities associated with, or reasonably related to, the proposed regulated activity which are made inevitable by the proposed regulated activity and which may have an impact on wetlands or watercourses; if the proposed activity comprises a regulated activity that affects one-half (½) acre or more of wetlands and/or uplands, the site plan shall be prepared and sealed by a licensed surveyor or professional engineer registered in the state of Connecticut.**

See the attached plan set for the location of all proposed activities. The sequence of construction adjacent to the Tankerhoosen river associated with bridge reconstruction is indicated on drawing PMT-07.

- i. names and mailing addresses of adjacent land owners;**

1. **Owner:** Barbara O. Woods  
**Location:** 11 Main Street, Vernon, CT 06066  
**Mailing Address:** 347 Main Street, Windsor, CT 06074-3906  
**MBL:** 02-158A-00006
2. **Owner:** Tankerhoosen Real Estate Holding Company LLC  
**Location:** 19 Main Street, Vernon, CT 06066  
**Mailing Address:** 17 Main Street, Vernon, CT 06066  
**MBL:** 02-158A-00007
3. **Owner:** Historic Talcott Mill LLC  
**Location:** 47 Main Street, Vernon, CT 06066  
**Mailing Address:** 56 Arbor Street, Hartford, CT 06106  
**MBL:** 02-158A-00003
4. **Owner:** Michael B. & Marcia E. Ambrose  
**Location:** 36 Main Street, Vernon, CT 06066  
**Mailing Address:** 36 Main Street, Vernon, CT 06066  
**MBL:** 02-156-00003



CONSULTING ENGINEERS  
& SURVEYORS

1084 Cromwell Avenue Suite, A-2  
Rocky Hill, CT 06067  
Tel: 860-436-4364  
Fax: 860-436-4626  
[www.martinezcouch.com](http://www.martinezcouch.com)

**Inland Wetland Commission Application**

**ConnDOT Project No:** 146-199

**City/Town:** Town of Vernon, CT

**Project Name:** Replacement of Bridge No. 04575, Main Street over Tankerhoosen River

5. **Owner:** Justo Danielle Trustee, Talcott Connecticut Trust C/O A Parsons  
**Location:** 20 Main Street, Vernon, CT 06066  
**Mailing Address:** 36 Pinewood Drive, Vernon, CT 06066  
**MBL:** 02-156-00008

6. **Owner:** State of Connecticut  
**Location:** 32 Main Street, Vernon, CT 06066  
**Mailing Address:** 165 Capital Avenue, Hartford, CT 06106-1659  
**MBL:** 02-156-00008C

7. **Owner:** The North Connecticut Land Trust Inc.  
**Location:** 26 Main Street, Vernon CT 06066  
**Mailing Address:** PO Box 324, Somers, CT 06071  
**MBL:** 02-156-00008D

- j. **statement by the applicant that the applicant (1) is familiar with all the information provided in the application, (2) certifies the accuracy of the application and all supporting information, and (3) is aware of the penalties for obtaining a permit through deception or through inaccurate or misleading information;**

By signing the Application under VII. Certification and Signature, the Applicant (1) is familiar with all the information provided in the application, (2) certifies the accuracy of the application and all supporting information, and (3) is aware of the penalties for obtaining a permit through deception or through inaccurate or misleading information.

- k. **authorization for the members and agents of the Commission to inspect the subject land, at reasonable times, during the pendency of an application and for the life of the permit;**

The Commissioners and agents of the Commission are hereby granted the Authority to inspect the property, at reasonable times, both before and after a final decision has been issued.

- l. **a completed DEP reporting form; the Commission shall revise or correct the information provided by the applicant and submit the form to the Commissioner of Environmental Protection in accordance with section 22a-39-14 of the Regulations of Connecticut State Agencies;**

CT DEEP Statewide Inland Wetlands & Watercourses Activity Reporting Form is attached.



CONSULTING ENGINEERS  
& SURVEYORS

1084 Cromwell Avenue Suite, A-2  
Rocky Hill, CT 06067  
Tel: 860-436-4364  
Fax: 860-436-4626  
[www.martinezcouch.com](http://www.martinezcouch.com)

**Inland Wetland Commission Application**

**ConnDOT Project No:** 146-199

**City/Town:** Town of Vernon, CT

**Project Name:** Replacement of Bridge No. 04575, Main Street over Tankerhoosen River

**m. any other information the Commission deems necessary to the understanding of what the applicant is proposing; and**

- None.

**n. submission of the appropriate filing fee based on the fee schedule established in section 20 of these regulations.**

Standard Non-Significant Activity Fee:  $\$125 + \$60 = \$185$ . If this project is deemed to have a significant impact, then the additional  $\$125$  will be provided to increase the  $\$125$  to the required  $\$250$  for the significant activity fee.

Since the Town is Applicant, the Town requests that the Commission waive the Town Inland Wetland Application fees. The  $\$60$  for the State mandatory fee (per CGS 22a-27j) may still apply.

**7.6 At the discretion of the Commission or its agent, or when the proposed activity involves a significant impact, additional information, based on the nature and anticipated effects of the activity, including but not limited to the following, is required:**

**a. site plans for the proposed activity and the land which will be affected thereby which show existing and proposed conditions, wetland and watercourse boundaries, land contours at two (2) foot intervals, boundaries of land ownership, proposed alterations and uses of wetlands and watercourses, and other pertinent features of the land and the proposed activity, prepared by a professional engineer, land surveyor, architect or landscape architect licensed by the state, or by such other qualified person;**

See attached plan set depicting existing and proposed conditions, wetland and water course boundaries, land contours, boundaries of land ownership, and proposed activity in and adjacent to wetlands and watercourses as well as the upland review area.

**b. engineering reports and analyses and additional drawings to fully describe the proposed activity including any filling, excavation, drainage or hydraulic modifications to watercourses and the proposed erosion and sedimentation control plan;**

No hydraulic modification to the Tankerhoosen River is proposed. The proposed erosion and sedimentation controls are shown on the attached plan set.

**c. mapping of soil types consistent with the categories established by the National Cooperative Soil Survey of the U.S. Natural Resources Conservation Service; the wetlands shall be**



CONSULTING ENGINEERS  
& SURVEYORS

1084 Cromwell Avenue Suite, A-2  
Rocky Hill, CT 06067  
Tel: 860-436-4364  
Fax: 860-436-4626  
[www.martinezcouch.com](http://www.martinezcouch.com)

**Inland Wetland Commission Application**

**ConnDOT Project No:** 146-199

**City/Town:** Town of Vernon, CT

**Project Name:** Replacement of Bridge No. 04575, Main Street over Tankerhoosen River

**delineated in the field by a soil scientist and the soil scientist's field delineation shall be depicted on the site plans;**

See attached mapping in wetlands report.

- d. a description of the ecological communities and functions of the wetlands or watercourses involved with the application and the effects of the proposed activity on these communities and wetland functions;**

See attached Wetlands Report. The propose activity does not anticipate any effect to the ecological communities or functions of the wetlands and watercourse in the project area.

- e. a description of how the applicant will change, diminish, or enhance the ecological communities and functions of the wetlands or watercourses involved in the application and each alternative which would cause less or no environmental impact to wetlands or watercourses, and a description of why each alternative considered was deemed neither feasible nor prudent;**

No change or diminishment of the ecological communities and functions of the wetlands or watercourses is proposed by the selected proposed alternative. The alternative of rehabilitation of the existing bridge was determined not feasible.

- f. analysis of chemical or physical characteristics of any fill material; and**

Fill materials for the project will conform to project specifications of the Connecticut Department of Transportation (CT DOT) Form 818. Roadway reconstruction fill material in the upland review area will include granular fill (processed aggregate base, gravel, and subbase) and hot mix asphalt for the roadway surface. Adjacent to the bridge abutments topsoil will be spread, and turf established on slopes up to 2 horizontal to 1 vertical. The Southwest approach to the bridge will have modified rip rap placed on a portion of the slope.

- g. management practices and other measures designed to mitigate the impact of the proposed activity.**

See attached plans with construction sequence procedures and erosion and sedimentation control measures designed to mitigate the impact of the proposed activity. The construction of new bridge substructure behind the existing substructure mitigates the impact of the proposed activity allowing a greater physical distancing of the work from the wetlands and watercourses.



CONSULTING ENGINEERS  
& SURVEYORS

1084 Cromwell Avenue Suite, A-2  
Rocky Hill, CT 06067  
Tel: 860-436-4364  
Fax: 860-436-4626  
[www.martinezcouch.com](http://www.martinezcouch.com)

**Inland Wetlands Commission Application**

**ConnDOT Project No:** 146-199

**City/Town:** Town of Vernon, CT

**Project Name:** Replacement of Bridge No. 04575, Main Street over Tankerhoosen River

**ATTACHMENTS TABLE OF CONTENTS**

Attachment A: CT DEEP SIWWARF .....A-1

Attachment B: Wetlands Report ..... B-1

Attachment C: Project Plan Set ..... C-1



CONSULTING ENGINEERS  
& SURVEYORS

1084 Cromwell Avenue Suite, A-2  
Rocky Hill, CT 06067  
Tel: 860-436-4364  
Fax: 860-436-4626  
[www.martinezcouch.com](http://www.martinezcouch.com)

**Inland Wetlands Commission Application**

**ConnDOT Project No:** 146-199

**City/Town:** Town of Vernon, CT

**Project Name:** Replacement of Bridge No. 04575, Main Street over Tankerhoosen River

**Attachment A:** **CT DEEP SIWWARF**

Located after this page is a completed CT DEEP Statewide Inland Wetlands & Watercourses Activity Reporting Form (SIWWARF)



## Statewide Inland Wetlands & Watercourses Activity Reporting Form

Please complete and mail this form in accordance with the instructions on pages 2 and 3 to:  
DEEP Land & Water Resources Division, Inland Wetlands Management Program, 79 Elm Street, 3rd Floor, Hartford, CT 06106  
Incomplete or incomprehensible forms will be mailed back to the municipal inland wetlands agency.

### PART I: Must Be Completed By The Inland Wetlands Agency

- DATE ACTION WAS TAKEN: year: Click Here for Year month: Click Here for Month
- CHOOSE ACTION TAKEN (see instructions for codes): Click Here to Choose a Code
- WAS A PUBLIC HEARING HELD (check one)? yes  no
- NAME OF AGENCY OFFICIAL VERIFYING AND COMPLETING THIS FORM:  
(type name) \_\_\_\_\_ (signature) \_\_\_\_\_

### PART II: To Be Completed By The Inland Wetlands Agency Or The Applicant

- TOWN IN WHICH THE ACTION IS OCCURRING (type name): Town of Vernon  
does this project cross municipal boundaries (check one)? yes  no   
if yes, list the other town(s) in which the action is occurring (type name(s)): \_\_\_\_\_, \_\_\_\_\_
- LOCATION (click on hyperlinks for information): USGS quad map name: Rockville or quad number: 39  
subregional drainage basin number: 4503
- NAME OF APPLICANT, VIOLATOR OR PETITIONER (type name): Town of Vernon
- NAME & ADDRESS / LOCATION OF PROJECT SITE (type information): Main Street over Tankerhoosen River, Vernon, CT  
briefly describe the action/project/activity (check and type information): temporary  permanent  description: Demolition and reconstruction of Bridge No. 04575 Main Street over Tankerhoosen River.
- ACTIVITY PURPOSE CODE (see instructions for codes): E
- ACTIVITY TYPE CODE(S) (see instructions for codes): 12, 14, 9, 1
- WETLAND / WATERCOURSE AREA ALTERED (type acres or linear feet as indicated):  
wetlands: 0.0005 acres open water body: 0.00 acres stream: 0 linear feet
- UPLAND AREA ALTERED (type acres as indicated): 0.46 acres
- AREA OF WETLANDS / WATERCOURSES RESTORED, ENHANCED OR CREATED (type acres as indicated): 0.00 acres

DATE RECEIVED:

**PART III: To Be Completed By The DEEP**

DATE RETURNED TO DEEP:

FORM COMPLETED: YES NO

FORM CORRECTED / COMPLETED: YES NO



CONSULTING ENGINEERS  
& SURVEYORS

1084 Cromwell Avenue Suite, A-2  
Rocky Hill, CT 06067  
Tel: 860-436-4364  
Fax: 860-436-4626  
[www.martinezcouch.com](http://www.martinezcouch.com)

**Inland Wetlands Commission Application**

**ConnDOT Project No:** 146-199

**City/Town:** Town of Vernon, CT

**Project Name:** Replacement of Bridge No. 04575, Main Street over Tankerhoosen River

**Attachment B: Wetlands Report**

Located after this page is the wetlands investigation report prepared by William Kenney Associates, LLC.

September 3, 2015

Mr. Anand Seshadri, PhD, PE  
Dewberry  
59 Elm Street  
New Haven, CT 06510

Re: Wetland and Watercourse Delineation  
Main Street Bridge, Main Street, Vernon, Connecticut

Dear Mr. Seshadri:

As requested, I investigated portions of properties in the area of Main Street and Tankerhoosen River to determine the presence or absence of wetlands and/or watercourses, to demarcate (flag) the boundaries of wetlands and watercourses identified, and to identify onsite soil types. This letter includes the methods and results of my investigation, which I completed today, September 3, 2015. In summary, one inland wetland and watercourse system was identified and delineated. The system, which extends and flows through the investigation area, is a segment of the Tankerhoosen River and includes bordering forested wetlands.

***Regulatory Definitions***

The Inland Wetlands and Watercourses Act (Connecticut General Statutes §22a-38) defines inland wetlands as "land, including submerged land...which consists of any soil types designated as poorly drained, very poorly drained, alluvial, and floodplain." Watercourses are defined in the act as "rivers, streams, brooks, waterways, lakes, ponds, marshes, swamps, bogs and all other bodies of water, natural or artificial, vernal or intermittent, public or private, which are contained within, flow through or border upon the state or any portion thereof." The Act defines Intermittent Watercourses as having 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.

The Tidal Wetlands Act (Connecticut General Statutes §22a-28) defines wetlands as those areas which border on or lie beneath tidal waters, such as, but not limited to banks, bogs, salt marsh, swamps, meadows, flats, or other low lands subject to tidal action, including those areas now or

formerly connected to tidal waters, and whose surface is at or below an elevation of one foot above local extreme high water; and upon which may grow or be capable of growing hydrophytic vegetation as identified in the Statutes.

### ***Methodology***

A second order soil survey in accordance with the principles and practices noted in the USDA publication *Soil Survey Manual* (1993) was completed at the subject site. The classification system of the National Cooperative Soil Survey was used in this investigation. Soil map units identified at the project site generally correspond to those included in the *Soil Survey of the State of Connecticut* (USDA 2005).

Wetland determinations were completed based on the presence of poorly drained, very poorly drained, alluvial, or floodplain soils and submerged land (e.g. a pond). Soil types were identified by observation of soil morphology (soil texture, color, structure, etc.). To observe the morphology of the property's soils, test pits and/or borings (maximum depth of two feet) were completed at the site.

Tidal wetland determinations were completed based on the presence of a predominance of tidal wetland vegetation and physical markings or water laid deposits resulting from tidal action.

Intermittent watercourse determinations were made based on 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.

Wetland boundaries were demarcated (flagged) with pink surveyor's tape (hung from vegetation) or small flags (on wire stakes) labeled "William Kenny Associates" that are generally spaced a maximum of every 50 feet. Complete boundaries are located along the lines that connect these sequentially numbered flags. The wetland boundaries are subject to change until adopted by local, state, or federal regulatory agencies.

On the day of the review, the sky was clear and air temperatures were in the 70's ° F. The upland soil was moist and wetland soil was moist to inundated.

### ***Results***

The investigation was limited to the areas within 100 feet upstream and downstream of the Main Street bridge over the Tankerhoosen River in Vernon. The vegetative cover at the investigation area is generally a broadleaved deciduous woodland wetland. A vertical masonry wall comprises the northwestern bank of the river within the study area and that area is sparsely vegetated. The river is impounded downstream of the study area.

One inland wetland and watercourse system was identified and delineated. The system, which extends and flows through the investigation area, is a segment of the Tankerhoosen River and includes bordering forested wetlands. Wetland soils are primarily poorly drained fine sandy loams that formed from alluvial deposits. The approximate location of the system is shown on the attached map. The boundary of the system was marked at the site with flags numbered 1 to 5, 1 to 5, 1 to 6 and 1 to 5.

Three soil map units were identified on the property (two wetland and one upland). Each map unit represents a specific area on the landscape and consists of one or more soils for which the unit is named. Other soils (inclusions that are generally too small to be delineated separately) may account for 10 to 15 percent of each map unit. The mapped units are identified in the following table by name and symbol and typical characteristics (parent material, drainage class, high water table, depth to bedrock, and slope). These characteristics are generally the primary characteristics to be considered in land use planning and management. A description of each characteristic and their land use implications follows the table. A complete description of each soil map unit can be found in the *Soil Survey of the State of Connecticut* (USDA 2005), and at <http://soils.usda.gov/technical/classification/osd/index.html>.

Map Unit Sym.	Map Unit Name	Parent Material	Slope (%)	Drainage Class	High Water Table			Depth To Bedrock (in)
					Depth (ft)	Kind	Mos.	
<b>Upland Soil</b>								
306	Udorthents -  Urban Land Complex	Excavated or Filled Soil (>2 feet)  Pavement & structures account for 85% or more of the area. Additional investigations required to determine characteristics	0-45	Well Drained to Somewhat Poorly Drained	1.5->6.0	Apparent	Nov-May	>60
<b>Wetland Soil</b>								
12 W	Raypal silt loam Water	Glacial Outwash	0-3	Poorly Drained	0.0-1.0	Apparent	Nov-May	>60

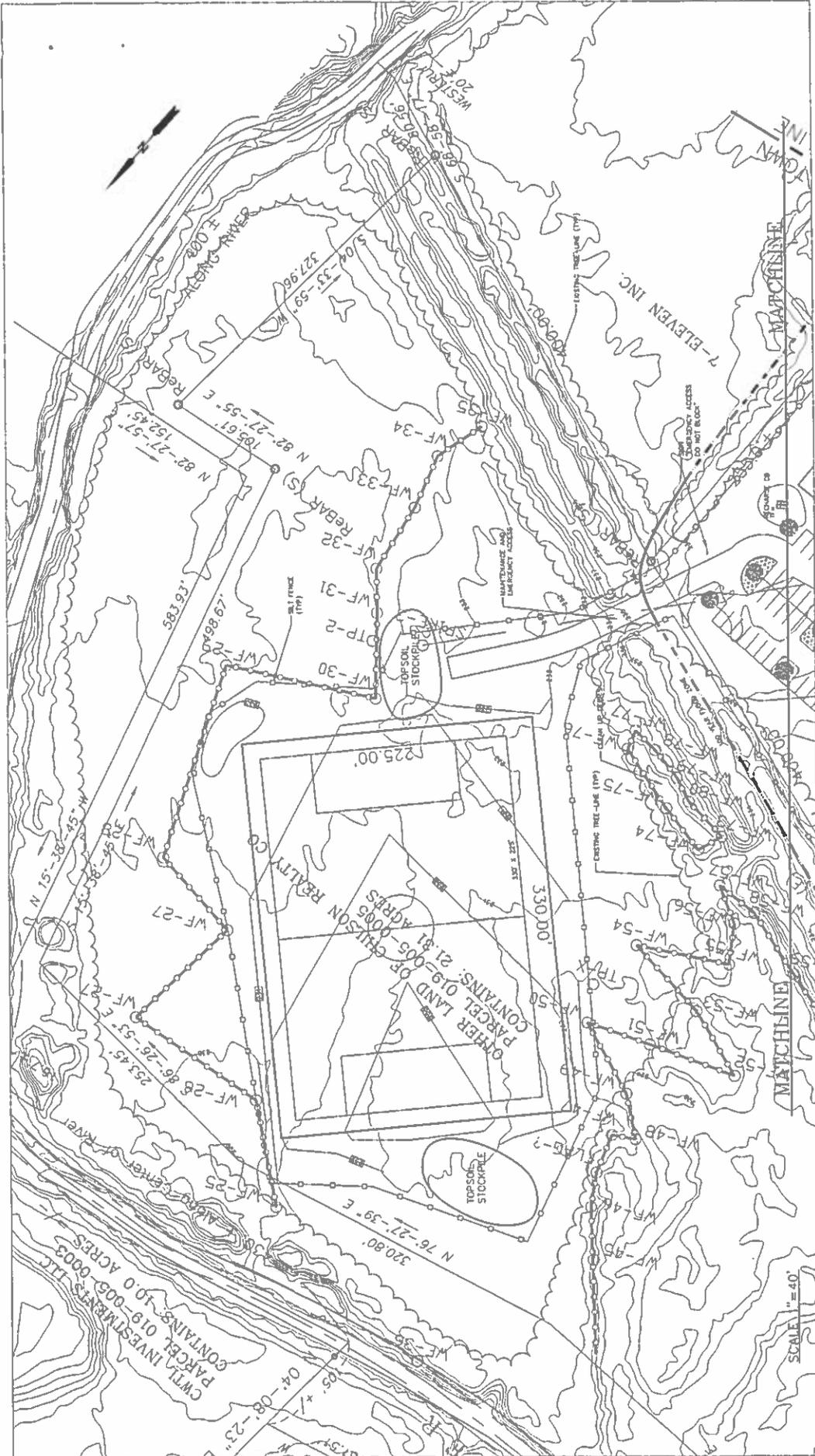
Parent material is the unconsolidated organic and mineral material in which soil forms. Soil inherits characteristics, such as mineralogy and texture, from its parent material. Glacial till is unsorted, nonstratified glacial drift consisting of clay, silt, sand, and boulders transported and deposited by glacial ice. Glacial outwash consists of gravel, sand, and silt, which are commonly stratified and deposited by glacial melt water. Alluvium is material such as sand, silt, or clay, deposited on land by streams. Organic deposits consist of decomposed plant and animal parts.

A soil's texture affects the ease of digging, filling, and compacting and the permeability of a soil. Generally sand and gravel soils, such as outwash soils, have higher permeability rates than most glacial till soils. Soil permeability affects the cost to design and construct subsurface sanitary disposal facilities and, if too slow or too fast, may preclude their use. Outwash soils are generally excellent sources of natural aggregates (sand and gravel) suitable for commercial use, such as construction sub base material. Organic layers in soils can cause movement of structural footings. Compacted glacial till layers make excavating more difficult and may preclude the use of subsurface sanitary disposal systems or increase their design and construction costs if fill material is required.

Generally, soils with steeper slopes increase construction costs, increase the potential for erosion and sedimentation impacts, and reduce the feasibility of locating subsurface sanitary disposal facilities.

Drainage class refers to the frequency and duration of periods of soil saturation or partial saturation during soil formation. Seven classes of natural drainage classes exist. They range from excessively





01 - This plan is a preliminary site-survey with an Accuracy Standard of A-E.  
 02 - This Plan has been prepared in accordance with the Regulations of the Connecticut State Surveyors and the Connecticut State Land Use Commission. This plan and its accompanying data and 1/8" Accuracy Standard.  
 To my knowledge and belief, the map is substantially correct as noted herein.  
 David A. Smith, Connecticut PLS 011273  
 The certification set void unless the plan bears a notary signature and my commission seal.

RICHARD ZULK / CERT. SURVEYOR  
 DATE \_\_\_\_\_

**SITE PLAN FIELD - 4**  
 WINDERMERE FIELDS  
 WINDERMERE ROAD  
 ELLINGTON & VERNON CT  
**TOWN OF VERNON**  
 ENGINEERING DEPARTMENT  
 11 PARK PLACE, VERNON, CT 06066  
 PHONE: 860.875.1800 FAX: 860.875.1800  
 WWW: WWW.VERNONCT.GOV

**GENERAL NOTES --**

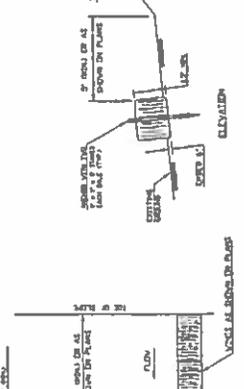
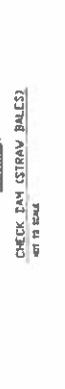
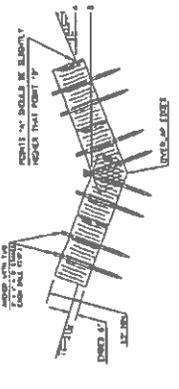
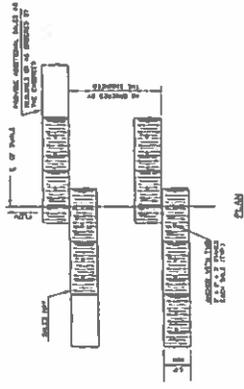
1. ALL WORK MUST BE PERFORMED IN ACCORDANCE WITH THESE PLANS, SPECIFICATIONS, AND CONDITIONS OF APPROVAL, AND ALL APPLICABLE CODES AND REGULATIONS.
2. THE CONTRACTOR SHALL MAINTAIN THE EXISTING CONTROL SYSTEMS AND STANDARDS OF ALL CONVEYANCE SYSTEMS WITH APPROVED CORRECTIONS AND IMPROVEMENTS.
3. THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND NOTIFY THE TOWN OF VERNON (TOWN ENGINEERING DEPARTMENT) IN WRITING IMMEDIATELY UPON DISCOVERY OF ANY DISCREPANCIES OR OMISSIONS. ALL DISCREPANCIES SHALL BE CORRECTED IMMEDIATELY UPON DISCOVERY OF THE DISCREPANCY.
4. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL EXISTING UTILITIES AND SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES AND SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES.
5. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL EXISTING UTILITIES AND SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES.
6. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL EXISTING UTILITIES AND SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES.
7. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL EXISTING UTILITIES AND SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES.
8. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL EXISTING UTILITIES AND SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES.
9. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL EXISTING UTILITIES AND SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES.
10. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL EXISTING UTILITIES AND SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES.

**GENERAL EROSION AND SEDIMENT CONTROL NOTES --**

1. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE CONNECTICUT DEPARTMENT OF ENVIRONMENTAL CONTROL, DIVISION OF EROSION CONTROL, AND ALL APPLICABLE CODES AND REGULATIONS.
2. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL EXISTING UTILITIES AND SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES.
3. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL EXISTING UTILITIES AND SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES.
4. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL EXISTING UTILITIES AND SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES.
5. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL EXISTING UTILITIES AND SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES.
6. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL EXISTING UTILITIES AND SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES.
7. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL EXISTING UTILITIES AND SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES.
8. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL EXISTING UTILITIES AND SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES.
9. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL EXISTING UTILITIES AND SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES.
10. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL EXISTING UTILITIES AND SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES.

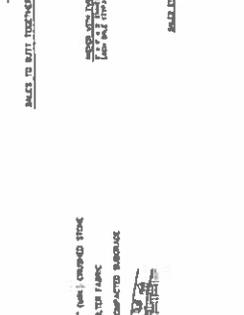
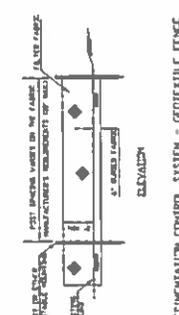
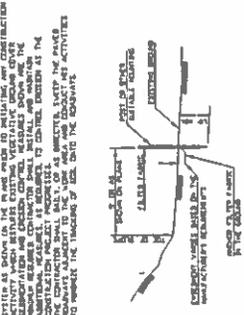
**GENERAL NOTES --**

1. THE CONTRACTOR SHALL INSTALL AND MAINTAIN THE SEDIMENT CONTROL SYSTEMS AND STANDARDS OF ALL CONVEYANCE SYSTEMS WITH APPROVED CORRECTIONS AND IMPROVEMENTS.
2. THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND NOTIFY THE TOWN OF VERNON (TOWN ENGINEERING DEPARTMENT) IN WRITING IMMEDIATELY UPON DISCOVERY OF ANY DISCREPANCIES OR OMISSIONS. ALL DISCREPANCIES SHALL BE CORRECTED IMMEDIATELY UPON DISCOVERY OF THE DISCREPANCY.
3. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL EXISTING UTILITIES AND SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES.
4. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL EXISTING UTILITIES AND SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES.
5. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL EXISTING UTILITIES AND SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES.
6. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL EXISTING UTILITIES AND SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES.
7. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL EXISTING UTILITIES AND SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES.
8. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL EXISTING UTILITIES AND SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES.
9. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL EXISTING UTILITIES AND SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES.
10. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL EXISTING UTILITIES AND SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES.



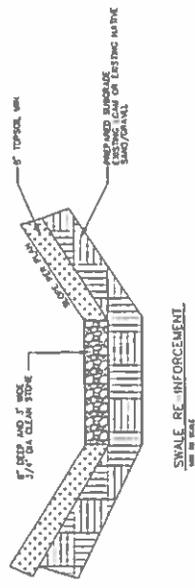
**GENERAL NOTES --**

1. THE CONTRACTOR SHALL INSTALL AND MAINTAIN THE SEDIMENT CONTROL SYSTEMS AND STANDARDS OF ALL CONVEYANCE SYSTEMS WITH APPROVED CORRECTIONS AND IMPROVEMENTS.
2. THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND NOTIFY THE TOWN OF VERNON (TOWN ENGINEERING DEPARTMENT) IN WRITING IMMEDIATELY UPON DISCOVERY OF ANY DISCREPANCIES OR OMISSIONS. ALL DISCREPANCIES SHALL BE CORRECTED IMMEDIATELY UPON DISCOVERY OF THE DISCREPANCY.
3. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL EXISTING UTILITIES AND SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES.
4. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL EXISTING UTILITIES AND SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES.
5. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL EXISTING UTILITIES AND SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES.
6. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL EXISTING UTILITIES AND SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES.
7. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL EXISTING UTILITIES AND SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES.
8. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL EXISTING UTILITIES AND SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES.
9. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL EXISTING UTILITIES AND SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES.
10. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL EXISTING UTILITIES AND SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES.

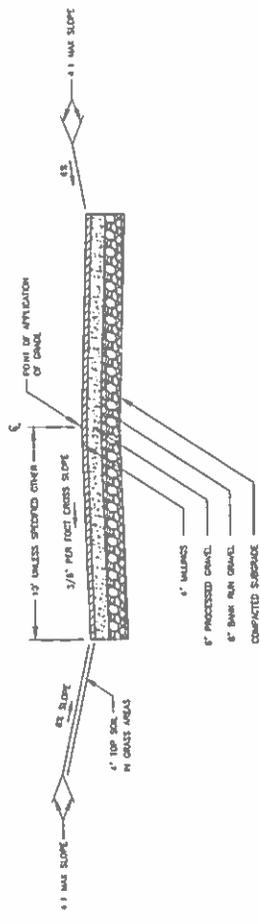


**DETAILS**

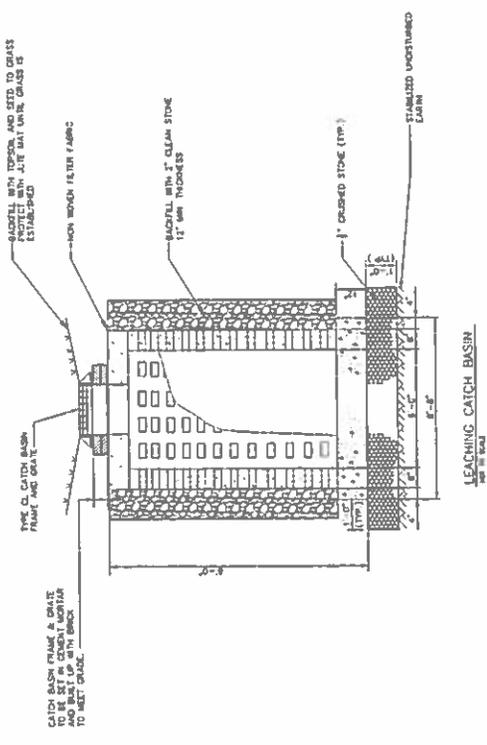
WINDERMERE FIELDS  
WINDERMERE ROAD  
ELWINGTON & VERNON CT  
**TOWN OF VERNON**  
ENGINEERING DEPARTMENT  
15 PARK PLACE, VERNON, CT 06066  
SCALE: 1" = 4' - 0"    DATE: 04/11/2008    SHEET 1 OF 2  
FILE: 06-000000-0000-0000-0000



SWALE RE-INFORCEMENT  
1/4\"/>



TYPICAL ROADWAY CROSS SECTION  
1/4\"/>



LEACHING CATCH BASIN  
1/4\"/>



DETAILS  
WINDERMERE FIELDS  
WINDERMERE ROAD  
ELINGTON & VERNON CT  
TOWN OF VERNON  
ENGINEERING DEPARTMENT  
15 PARK PLACE, VERNON, CT 06066  
SCALE: 1" = 4'-0" DRAWN: RJP/ELM  
FILE: 8-17-0002 FOR INTERCOMPARISON: 8-0002-0002  
PAGE 1 OF 2



