Connecticut Department of
Energy & Environmental Protection
Bureau of Materials Management & Compliance Assurance
Water Permitting & Enforcement Division

General Permit Registration Form for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities, effective 10/1/13 (non-electronic form)

Prior to completing this form, you **must** read the instructions for the subject general permit available at **DEEP-WPED-INST-015**.
This form must be filled out electronically before being printed.
You must submit the registration fee along with this form.

The status of your registration can be checked on the DEEP's ezFile Portal. Please note that DEEP will no longer mail certificates of registration.

CPPU USE ONLY
App #:_____
Doc #:_____
Check #:_____
Program: Stormwater

Part I: Registration Type

Select the appropriate boxes identifying the registration type and registration deadline.

Registration Type			Registration Timeline	
☐	**Re-registration** **Existing Permit No. GSN _____**		**On or before February 1, 2014*** *Note: Failure to renew a permit by this date will require submission of new registration. Re-registrants must only complete Parts I, II, III (except Question 8), IV - Question 1, VII and submit Attachment A.	
☒	**New Registration** (Refer to Section 2 of the permit for definitions of Locally Exempt and Locally Approvable Projects)	☐ **Locally Approvable Projects** **Size of soil disturbance:**	**New registration - Sixty (60) days prior to the initiation of the construction activity for:** Sites with a total soil disturbance area of 5 or more acres	
		☒ **Locally Exempt Projects** **Size of soil disturbance:**	☒	**New registration - Sixty (60) days prior to the initiation of the construction activity for:** Sites with a total disturbance area of one (1) to twenty (20) acres except those with discharges to impaired waters or tidal wetlands
			☐	**New registration - Ninety (90) days prior to the initiation of the construction activity for:** (i) Sites with a total soil disturbance area greater than twenty (20) acres, or (ii) Sites discharging to a tidal wetland (that is not fresh-tidal and is located within 500 feet), or (iii) Sites discharging to an impaired water listed in the "Impaired Waters Table for Construction Stormwater Discharges"

Part II: Fee Information

1. New Registrations
   a. Locally approvable projects (registration only):
      ☐ $625 [#1855]
   b. Locally exempt projects (registration and Plan):
      ☒ $3,000 total soil disturbance area ≥ one (1) and < twenty (20) acres. [#1856]
      ☐ $4,000 total soil disturbance ≥ twenty (20) acres and < fifty (50) acres. [#1857]
      ☐ $5,000 total soil disturbance ≥ fifty (50) acres. [#1858]
2. Re-Registrations
   ☐ $625 (sites previously registered prior to September 1, 2012) [#1853]
   ☐ $0 (sites previously registered between September 1, 2012 and the issuance date of this permit) [#1854]

The fees for municipalities shall be half of those indicated in subsections 1.a., 1.b., and 2 above pursuant to section 22a-6(b) of the Connecticut General Statutes. State and Federal agencies shall pay the full fees specified in this subsection. The registration will not be processed without the fee. The fee shall be non-refundable and shall be paid by certified check or money order payable to the Department of Energy and Environmental Protection.

Part III: Registrant Information

- If a registrant is a corporation, limited liability company, limited partnership, limited liability partnership, or a statutory trust, it must be registered with the Secretary of the State. If applicable, the registrant's name shall be stated **exactly** as it is registered with the Secretary of the State. This information can be accessed at **CONCORD.**
- If a registrant 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. Registrant /Client Name:

   State Agency Connecticut Department of Transportation

   Secretary of the State business ID #:

   Mailing Address: 171 Salem Turnpike

   City/Town: Norwich State: CT Zip Code: 06360

   Business Phone: 860-823-3204 ext.:

   Example:(xxx) xxx-xxxx

   Contact Person: Carl E. Nelson Title: Dist Engr

   E-Mail: **carl.nelson@ct.gov**

   Additional Phone Number (if applicable): ext.

2. List billing contact, if different than the registrant:

   Name:

   Mailing Address:

   City/Town: State: Zip Code:

   Business Phone: ext.:

   Contact Person: Title:

Part III: Registrant Information (continued)

3. List primary contact for departmental correspondence and inquiries, if different than the registrant:

Name:

Mailing Address:

City/Town: State: Zip Code:

Business Phone: ext.:

Site Phone: Emergency Phone:

Contact Person: Title:

Association (e.g. developer, general or site contractor, etc.):

4. List owner of the property on which the activity will take place, if different from registrant:

Name:

Mailing Address:

City/Town: State: Zip Code:

Business Phone: ext.:

Contact Person:

5. List developer, if different from registrant or primary contact:

Name:

Mailing Address:

City/Town: State: Zip Code:

Business Phone: ext.:

Contact Person: Title:

6. List general contractor, if different from registrant or primary contact:

Name:

Mailing Address:

City/Town: State: Zip Code:

Business Phone: ext.:

Site Phone: Off Hours Phone:

Contact Person: Title:

7. List any engineer(s) or other consultant(s) employed or retained to assist in preparing the registration and/or Stormwater Pollution Control Plan. ☐ Please select if additional sheets are necessary, and label and attach them to this sheet.

Name: Connecticut Department of Transportation

Mailing Address: 2800 Berlin Turnpike, PO Box 317546

City/Town: Newington State: CT Zip Code: 06131

Business Phone: 860-594-3300 ext.:

Contact Person: John W. Waleszczyk Title: TSE

Service Provided:

8. List Reviewing Qualified Professional (for locally approvable projects only):

Name: Contact Person:

Mailing Address:

City/Town: State: Zip Code:

Business Phone: ext.:

Part IV: Site Information

1. Site Name: Windham Regional Transit District Bus Facility
   Street Address or Description of Location: South Frontage Road
   City/Town: Mansfield State: CT Zip Code: 06205
   Brief Description of construction activity: Construction of a Regional Transit Bus Facility
   Project Start Date: December / 2013 *(month/ yr)* Anticipated Completion Date: December / 2014 *(month/ yr)*
   Normal working hours: **7AM** to **4PM**

2. MINING: Is the activity on the site in question part of mining operations (i.e. sand and gravel)? ☐ Yes ☒ No

   If yes, mining is not authorized by this general permit. You must submit the Registration Form for the General Permit for the Discharge of Stormwater Associated with Industrial Activity.

3. COMBINED OR SANITARY SEWER: Does all of the stormwater from the proposed activity discharge to a combined or sanitary sewer (i.e. a sewage treatment plant)? ☐ Yes ☒ No

   If yes, this activity is not regulated by this permit. Contact the Water Permitting & Enforcement Division at 860-424-3018.

4. INDIAN LANDS: Is or will the facility be located on federally recognized Indian lands ☐ Yes ☒ No

5. 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

   The coastal boundaries fall within the following towns: Branford, Bridgeport, Chester, Clinton, Darien, Deep River, East Haven, East Lyme, Essex, Fairfield, Greenwich, Groton (City and Town), Old Lyme, Guilford, Hamden, Ledyard, Lyme, Madison, Milford, Montville, New London, New Haven, North Haven, Norwalk, Norwich, Old Saybrook, Orange, Preston, Shelton, Stamford, Stonington (Borough and Town), Stratford, Waterford, West Haven, Westbrook and Westport.

   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 provide documentation the DEEP Office of Long Island Sound Programs or the local governing authority has issued a coastal site plan approval or determined the project is exempt from coastal site plan review. Provide this documentation with your registration as Attachment B. See guidance in Appendix D of the general permit. Information on the coastal boundary is available at the local town hall or at www.cteco.uconn.edu/map_catalog.asp. Additional DEEP Maps and Publications are available by contacting DEEP staff at 860-424-3555.

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   Secretary of the State business ID #:

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   Business Phone: 860-823-3204 ext.:

   Example:(xxx) xxx-xxxx

   Contact Person: Carl E. Nelson Title: Dist Engr

   E-Mail: **carl.nelson@ct.gov**

   Additional Phone Number (if applicable): ext.

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   Contact Person: Title:

Part III: Registrant Information (continued)

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Name:

Mailing Address:

City/Town: State: Zip Code:

Business Phone: ext.:

Contact Person:

5. List developer, if different from registrant or primary contact:

Name:

Mailing Address:

City/Town: State: Zip Code:

Business Phone: ext.:

Contact Person: Title:

6. List general contractor, if different from registrant or primary contact:

Name:

Mailing Address:

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Business Phone: ext.:

Site Phone: Off Hours Phone:

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7. List any engineer(s) or other consultant(s) employed or retained to assist in preparing the registration and/or Stormwater Pollution Control Plan. ☐ Please select if additional sheets are necessary, and label and attach them to this sheet.

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   Brief Description of construction activity: Construction of a Regional Transit Bus Facility
   Project Start Date: December / 2013 *(month/ yr)* Anticipated Completion Date: December / 2014 *(month/ yr)*
   Normal working hours: **7AM** to **4PM**

2. MINING: Is the activity on the site in question part of mining operations (i.e. sand and gravel)? ☐ Yes ☒ No

   If yes, mining is not authorized by this general permit. You must submit the Registration Form for the General Permit for the Discharge of Stormwater Associated with Industrial Activity.

3. COMBINED OR SANITARY SEWER: Does all of the stormwater from the proposed activity discharge to a combined or sanitary sewer (i.e. a sewage treatment plant)? ☐ Yes ☒ No

   If yes, this activity is not regulated by this permit. Contact the Water Permitting & Enforcement Division at 860-424-3018.

4. INDIAN LANDS: Is or will the facility be located on federally recognized Indian lands ☐ Yes ☒ No

5. 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

   The coastal boundaries fall within the following towns: Branford, Bridgeport, Chester, Clinton, Darien, Deep River, East Haven, East Lyme, Essex, Fairfield, Greenwich, Groton (City and Town), Old Lyme, Guilford, Hamden, Ledyard, Lyme, Madison, Milford, Montville, New London, New Haven, North Haven, Norwalk, Norwich, Old Saybrook, Orange, Preston, Shelton, Stamford, Stonington (Borough and Town), Stratford, Waterford, West Haven, Westbrook and Westport.

   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 provide documentation the DEEP Office of Long Island Sound Programs or the local governing authority has issued a coastal site plan approval or determined the project is exempt from coastal site plan review. Provide this documentation with your registration as Attachment B. See guidance in Appendix D of the general permit. Information on the coastal boundary is available at the local town hall or at www.cteco.uconn.edu/map_catalog.asp. Additional DEEP Maps and Publications are available by contacting DEEP staff at 860-424-3555.

Part IV: Site Information (continued)

6. ENDANGERED OR THREATENED SPECIES:

In order to be eligible to register for this General Permit, each registrant must perform a self-assessment, obtain a limited one-year determination, or obtain a safe-harbor determination regarding threatened and endangered species. This may include the need to develop and implement a mitigation plan. While each alternative has different limitations, the alternatives are not mutually exclusive; a registrant may register for this General Permit using more than one alternative. See Appendix A of the General Permit. Each registrant must complete this section AND Attachment C to this Registration form and a registrant who does not or cannot do so is not eligible to register under this General Permit.

Each registrant must perform a review of the Department's Natural Diversity Database maps to determine if the site of the construction activity is located within or in proximity (within ¼ mile) to a shaded area.

a. Provide the date the NDDB maps were reviewed: Dec 2012 (Print a copy of the NDDB map you viewed since it must be submitted with this registration as part of Attacment C.)

b. For a registrant using a limited one-year determination or safe harbor determination to register for this General Permit, provide the Department's Wildlife Divison NDDB identification number for any such determination: _____ (The number is on the determination issued by the Department's Wildlife Divison).

c. verify that I have completed Attachment C to this Registration Form. ☒ Yes

For more information on threatened and endangered species requirements, refer to Appendix A and Section 3(b)(2) of this General Permit, visit the DEEP website at www.ct.gov/deep/nddbrequest or call the NDDB at 860-424-3011.

7. WILD AND SCENIC RIVERS: Is the proposed project within the watershed of a designated Wild and Scenic River? (See Appendix H for guidance) ☒ Yes ☐ No

8. AQUIFER PROTECTION AREAS: Is the site located within a mapped aquifer protection area www.ct.gov/deep/aquiferprotection as defined in section 22a-354h of the CT General Statutes? ☐ Yes ☒ No
(For additional guidance, please refer to Appendix C of the General Permit)

9. CT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL: Is the activity in accordance with CT Guidelines for Erosion and Sediment Control and local erosion & sediment control ordinances, where applicable? ☒ Yes ☐ No

10. HISTORIC AND/OR ARCHAEOLOGICAL RESOURCES:
Has the site of the proposed activity been reviewed (using the process outlined in Appendix G of this permit) for historic and/or archaeological resources? ☒ Yes ☐ No

a. The review indicates the proposed site does not have the potential for historic/ archaeological resources, OR ☒ Yes ☐ No

b. The review indicated historic and/ or archaeological resource potential exists and the proposed activity is being or has been reviewed by the Offices of Culture and Tourism, OR ☐ Yes ☐ No

c. The proposed activity has been reviewed and authorized under an Army Corps of Engineers Section 404 wetland permit. ☐ Yes ☐ No

11. 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 D.

Part V: Stormwater Discharge Information

Table 1

Outfall #	a) Type	b) Pipe Material	c) Pipe Size	d) Note: To find lat/long, go to: CT ECO. A decimal format is required here. Directions on how to use CT ECO to find lat./long. and conversions can be found in Part V, Section d of the DEEP-WPED-INST-015 .		e) What method was used to obtain your latitude/longitude information?
				Longitude	Latitude	
	Select One:	Select One:	Select One:	-		Select One:
	Select One:	Select One:	Select One:	-		Select One:
	Select One:	Select One:	Select One:	-		Select One:
	Select One:	Select One:	Select One:	-		Select One:
	Select One:	Select One:	Select One:	-		Select One:

Table 2

Outfall #	a) For temporary and permanent outfalls, provide a start date. For temporary discharges, also provide a date the discharge will cease.	b) For the drainage area associated with each outfall: Effective Impervious Area Before Construction	c) For the drainage area associated with each outfall: Effective Impervious Area After Construction	d) To what system or receiving water does your stormwater runoff discharge? either "storm sewer" or "wetlands/waterbody" (If you select "storm sewer" proceed to Part VI of the form. If you select "wetlands/waterbody" proceed to next question)	e) For each outfall, does it discharge to any of the following towns: *Branford, Kent, Manchester, Meriden, North Branford, Norwalk, or Wilton?* (If no, proceed to Part VI of the form. If yes, proceed to next question.)	f) For each outfall, does it discharge to a "freshwater" or "salt water" ? (If you select "freshwater" proceed to Table 3. If you selected "salt water", proceed to Part VI of the form.)
	- mm/dd-mm/dd	sq feet	sq feet	Select one:	☐ Yes ☐ No	Select one:
	- mm/dd-mm/dd	sq feet	sq feet	Select one:	☐ Yes ☐ No	Select one:
	- mm/dd-mm/dd	sq feet	sq feet	Select one:	☐ Yes ☐ No	Select one:
	- mm/dd-mm/dd	sq feet	sq feet	Select one:	☐ Yes ☐ No	Select one:
	- mm/dd-mm/dd	sq feet	sq feet	Select one:	☐ Yes ☐ No	Select one:
		total sq feet	**total sq feet**			

Part V: Stormwater Discharge Information (continued)

Table 3 Provide the following information about the receiving water(s)/wetland(s) that receive stormwater runoff from your site:			
Outfall #	a) What is your 305b ID # (water body ID #)? (Section 3.b, of the DEEP-WPED-INST-015, explains how to find this information)	b) Is your receiving water identified as a impaired water in the "Impaired Waters Table for Construction Stormwater Discharges"? If yes, proceed to next question. If no, proceed to Part VI: Pollution Control Plan.	c) Has any Total Maximum Daily Load (TMDL) been approved for the impaired water?
		☐ Y ☐ N	☐ Y ☐ N
		☐ Y ☐ N	☐ Y ☐ N
		☐ Y ☐ N	☐ Y ☐ N
		☐ Y ☐ N	☐ Y ☐ N
		☐ Y ☐ N	☐ Y ☐ N

Part V: Stormwater Discharge Information (continued)

Impaired waters: If you answered "yes" to Table 3, question b.,**verify** that the project's Pollution Control Plan (Plan) addresses the control measures below in Question 1 or 2, as appropriate.

1. **If the impaired water does not have a TMDL,** confirm compliance by selecting 1.a. or 1.b. below:
   a. No more than 3 acres is disturbed at any time; ☐ Yes

   OR

   b. Stormwater runoff from a 2 yr, 24 rain event is **retained.** ☐ Yes

2. **If the impaired water has a TMDL,** confirm compliance by selecting 2.a. and 2.b. below and either question 2.c.1. or 2.c.2. below:
   a. The Plan documents there is sufficient remaining Waste Load Allocations (WLA)in the TMDL for the proposed discharge, ☐ Yes

   AND

   b. Control measures shall be implemented to assure the WLA will not be exceeded, ☐ Yes

   AND

   c. 1. Stormwater discharges will be monitored for the indicator pollutant identified in theTMDL, ☐ Yes

   OR

   2. The Plan documents specific requirements for stormwater discharges specified in the TMDL. ☐ Yes

Part VI: Pollution Control Plan (select one of the following four categories)

☒ I am registering a Locally Exempt project and submitting the required electronic Plan (in Adobe™ PDF or similar publically available format) pursuant to Section 3(*c*)(2)(E) of this permit.

- ☒ Plan is attached to this registration form
- ☐ Plan is available at the following Internet Address (URL):

☐ I am registering a Locally Approvable project and have chosen not to submit the Plan with this registration pursuant to Section 3(*c*)(1) of this permit.

☐ I am registering a Locally Approvable project and have chosen to make my Plan electronically available pursuant to Section 4(*c*)(2)(N) of this permit.

- ☐ Plan is attached to this registration form
- ☐ Plan is available at the following Internet Address (URL):

☐ I am registering a Locally Exempt project and do not have the capability to submit the Plan electronically. Therefore, I am submitting a paper copy with this registration as Attachment E.

Part VII: Registrant Certification

The registrant *and* the individual(s) responsible for actually preparing the registration must sign this part. A registration will be considered incomplete unless all required signatures are provided.

For New Registrants:

" I hereby certify that I am making this certification in connection with a registration under such general permit, [INSERT NAME OF REGISTRANT BELOW] submitted to the commissioner by Carl E. Nelson, District Engineer, Connecticut Department of Transportation for [INSERT ADDRESS OF PROJECT OR ACTIVITY BELOW] an activity located at South Frontage Road, Mansfield, CT and that all terms and conditions of the general permit are being met for all discharges which have been initiated and such activity is eligible for authorization under such permit. I further certify that a system is in place to ensure that all terms and conditions of this general permit will continue to be met for all discharges authorized by this general permit at the site. I certify that the registration filed pursuant to this general permit is on complete and accurate forms as prescribed by the commissioner without alteration of their text. I certify that I have personally examined and am familiar with the information that provides the basis for this certification, including but not limited to all information described in Section 3(*b*) (8)(A) of such general permit, and I certify, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining such information, that the information upon which this certification is based is true, accurate and complete to the best of my knowledge and belief. I certify that I have made an affirmative determination in accordance with Section 3(*b*)(8)(B) of this general permit. I understand that the registration filed in connection with such general permit is submitted in accordance with and shall comply with the requirements of Section 22a-430b of Connecticut General Statutes. I also understand that knowingly making any false statement made in the submitted information and in this certification may be punishable as a criminal offense, including the possibility of fine and imprisonment, under Section 53a-157b of the Connecticut General Statutes and any other applicable law."

For Re-registrants:

" I hereby certify that I am making this certification in connection with a registration under the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities, submitted to the commissioner [INSERT NAME OF REGISTRANT BELOW] by _____ for an activity located at [INSERT ADDRESS OF PROJECT OR ACTIVITY BELOW] _____ and that all terms and conditions of the general permit are being met for all discharges which have been initiated and such activity is eligible for authorization under such permit. I further certify that all designs and plans for such activity meet the current terms and conditions of the general permit in accordance with Section 5(b)(5)(C) of such general permit and that a system is in place to ensure that all terms and conditions of this general permit will continue to be met for all discharges authorized by this general permit at the site. I certify that the registration filed pursuant to this general permit is on complete and accurate forms as prescribed by the commissioner without alteration of their text. I certify that I have personally examined and am familiar with the information that provides the basis for this certification, including but not limited to all information described in Section 3(*b*)(8)(A) of such general permit, and I certify, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining such information, that the information upon which this certification is based is true, accurate and complete to the best of my knowledge and belief. I also understand that knowingly making any false statement made in the submitted information and in this certification may be punishable as a criminal offense, including the possibility of fine and imprisonment, under Section 53a-157b of the Connecticut General Statutes and any other applicable law."

	12/6/13
Signature of Registrant	Date
Carl E. Nelson, PE	**District Engineer**
Name of Registrant (print or type)	Title (if applicable)
SEE ATTACHED OLD FORM REGISTRATION - CEN	
Signature of Preparer (if different than above)	Date
John W. Waleszczyk	**Transportation Supervising Engineer**
Name of Preparer (print or type)	Title (if applicable)

Part VIII: Professional Engineer (or Landscape Architect, where appropriate) Design Certification (for publically approvable and exempt projects)

The following certification must be signed by a Professional Engineer or Landscape Architect where appropriate.

"I hereby certify that I am a professional engineer licensed in the State of Connecticut. I am making this certification in connection with a registration under such general permit, submitted to the commissioner by

[INSERT NAME OF REGISTRANT BELOW]

Carl E. Nelson, District Engineer, Connecticut Department of Transportation for an activity located at

[INSERT ADDRESS OF PROJECT OR ACTIVITY BELOW]

South Frontage Road, Mansfield, CT

I certify that I have thoroughly and completely reviewed the Stormwater Pollution Control Plan for the project or activity covered by this certification. I further certify, based on such review and on the standard of care for such projects, that the Stormwater Pollution Control Plan has been prepared in accordance with the Connecticut Guidelines for Soil Erosion and Sediment Control, as amended, the Stormwater Quality Manual, as amended, and the conditions of the general permit, and that the controls required for such Plan are appropriate for the site. I further certify, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining such information, that the information upon which this certification is based is true, accurate, and complete to the best of my knowledge and belief. I also understand that knowingly making any false statement in this certification may subject me to sanction by the Department and/or be punishable as a criminal offense, including the possibility of fine and imprisonment, under section 53a-157b of the Connecticut General Statutes and any other applicable law."

SEE ATTACHED OLD FORM	REGISTRATION – CEN
Signature of Design Professional	Date
Michael G. Fisher	
Name of Professional (print or type)	Title
B-L Companies, 355 Research Parkway	**Meriden**
Mailing Address	City/Town
CT **06450**	**203-630-1406**
State Zip Code	Business Phone
	CT PE 21170
	License #
Affix P.E/L.A Stamp Here	

Part IX: Reviewing Qualified Professional Certification

The following certification must be signed by a) a Conservation District reviewer OR, b) a qualified soil erosion and sediment control and/or professional engineer

☐ **Review certification by Conservation District:**

1.) District: list of districts

Date of Affirmative Determination:

" I am making this certification in connection with a registration under General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities, submitted to the commissioner

[INSERT NAME OF REGISTRANT BELOW]

by _____ for an activity located at

[INSERT ADDRESS OF PROJECT OR ACTIVITY BELOW]

_____.

I have personally examined and am familiar with the information that provides the basis for this certification, and I affirm, based on the review described in Section 3(*b*)(11)(C) of this general permit and on the standard of care for such projects, that the Stormwater Pollution Control Plan is adequate to assure that the activity authorized under this general permit will comply with the terms and conditions of such general permit and that all stormwater management systems: (i) have been designed to control pollution to the maximum extent achievable using measures that are technologically available and economically practicable and that conform to those in the Guidelines and the Stormwater Quality Manual; (ii) will function properly as designed; (iii) are adequate to ensure compliance with the terms and conditions of this general permit; and (iv) will protect the waters of the state from pollution."

_____

Signature of District Professional and Date

_____

Name of District Professional and License Number (if applicable)

Or

☐ **Review certification by Qualified Professional**

Company: _____

Name: _____

License # : _____

Level of independency of professional:

Required for all projects disturbing over 1 acre:

1. I verify I am not an employee of the registrant. ☐ Yes
2. I verify I have no ownership interest of any kind in the project for which the registration is being submitted. ☐ Yes

Required for projects with 15 or more acres of site disturbance (in addition to questions 1&2):

3. I verify I did not engage in any activities associated with the preparation, planning, designing or engineering of the soil erosion and sediment control plan or stormwater management systems plan for this registrant. ☐ Yes
4. I verify I am not under the same employ as any person associated with the preparation, planning, designing or engineering of the soil erosion and sediment control plan or stormwater management systems plan for this registrant. ☐ Yes

Part IX: Reviewing Qualified Professional Certification (continued)

"I hereby certify that I am a qualified professional engineer or qualified soil erosion and sediment control professional, or both, as defined in the General Permit for Discharge of Stormwater and Dewatering Wastewaters from Construction Activities and as further specified in Sections 3(*b*)(11)(A) and (B) of such general permit. I am making this certification in connection with a registration under such general permit,

[INSERT NAME OF REGISTRANT BELOW]

submitted to the commissioner by _____

[INSERT ADDRESS OF PROJECT OR ACTIVITY BELOW]

for an activity located at _____.

I have personally examined and am familiar with the information that provides the basis for this certification, including but not limited to all information described in Section 3(*b*)(11)(C) of such general permit, and I certify, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining such information, that the information upon which this certification is based is true, accurate and complete to the best of my knowledge and belief. I further certify that I have made the affirmative determination in accordance with Sections 3(*b*)(11)(D)(i) and (ii) of this general permit. I understand that this certification is part of a registration submitted in accordance with Section 22a-430b of Connecticut General Statutes and is subject to the requirements and responsibilities for a qualified professional in such statute. I also understand that knowingly making any false statement in this certification may be punishable as a criminal offense, including the possibility of fine and imprisonment, under Section 53a-157b of the Connecticut General Statutes and any other applicable law."

_____

Signature of Reviewing Qualified Professional Date: _____

_____

Name of Reviewing Qualified Professional License No.: _____

Affix P.E./L.A. Stamp Here

Part X: Supporting Documents

Select the applicable box below for each attachment being submitted with this registration form. When submitting any supporting documents, please label the documents as indicated below (e.g., Attachment A, etc.) and be sure to include the registrant's name as indicated on this certification form.

☒ **Attachment A:** Select here as verification that an 8 ½" X 11" copy of the relevant portion of a USGS Quadrangle Map with a scale of 1:24,000, showing the exact location of the facility has been submitted with this registration. Indicate the quadrangle name on the map, and be sure to include the registrant's name. (To obtain a copy of the relevant USGS Quadrangle Map, call your town hall or DEEP Maps and Publications Sales at 860-424-3555)

☐ **Attachment B:** Documentation related to *Coastal Consistency Review,* if applicable.

☒ **Attachment C:** Threatened and Endangered Species Form and any additional information (such as a copy of a NDDB map)

☐ **Attachment D:** Conservation or Preservation Restriction Information, if applicable.

☐ **Attachment E:** Where applicable, non-electronic Pollution Control Plan.

Note: Please submit the fee along with a completed, printed and signed Registration Form and all additional supporting documents to:

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

ATTACHMENT C: THREATENED AND ENDANGERED SPECIES

Information about compliance with the requirements of Section 3(b)(2) of this general permit, regarding threatened and endangered species, is in Appendix A of the general permit. Choose one or more (if applicable) of the following in order to be eligible to register for this General Permit. A registrant who does not or cannot do so is not eligible to register under this General Permit.

☐ Self Assessment using the NDDB maps – Select this only if:

a. The site of the construction activity is not entirely, partially or within a ¼ mile of a shaded area depicted on the Department's Natural Diversity Database maps and this determination was made not more than six months before the date of submitting this registration;

AND

b. The entity registering for this General Permit has no reasonably available verifiable scientific, or other credible information that the construction activity could reasonably be expected to have an adverse impact upon a federal or state species listed as threatened or endangered.

Attach a copy of the NDDB map used to conduct the self assessment used to register for this general permit.

Note: Both a and b as used in this section, must be true in order for a Registrant to register for this General Permit using the self-assessment option. If neither is true, a Registrant cannot use the self-assessment option to comply with Section 3(b)(2) and Appendix A of the General Permit.

☐ Limited One-Year Determination – Select this only if:

a. The entity registering for this General Permit has obtained a limited one-year determination from the Department's Wildlife Division regarding threatened and endangered species: i) within a year of the date of submitting this registration; or ii) more than 1 year before submitting this registration, but such determination has been extended by the Department within one year of the date of submitting this registration;

AND

b. The Registrant has provided to the Department's Wildlife Division any reasonably available verifiable scientific, or other credible information that the construction activity could reasonably be expected to have an adverse impact upon a federal or state species listed as threatened or endangered.

Provide the date the limited one-year determination was issued by the Department's Wildlife Division _____;

or

Provide the date that the most recent extension to a limited one year determination was issued by the Department's Wildlife Division _____.

Note: Both a and b as used in this section, must be true in order for a Registrant to register for this General Permit using the Limited One-Year Determination option. If a Limited One-Year Determination or extension to any such determination was issued by the Department's Wildlife Division more than one year before the submission of this registration, a Registrant cannot use any such determination or extension to comply with Section 3(b)(2) and Appendix A of the General Permit.

ATTACHMENT C: THREATENED AND ENDANGERED SPECIES (continued)

☐ **Select here if the Limited One-Year Determination issued by the Department includes a Mitigation Plan.**

Provide the date the Mitigation Plan was approved: _____

Governmental Entity Approving the Plan: _____

As of the date this Registration is submitted,

Has the Mitigation Plan been fully implemented? ☐ Yes ☐ No

Date commenced: _____ Date completed:_____

Is the Mitigation Plan partially implemented? ☐ Yes ☐ No

If yes, what actions have been taken?_____

And which actions are yet to be implemented and what is the timeframe for completion of such actions:_____

Is the Mitigation Plan yet to be implemented? ☐ Yes ☐ No

If yes, specify the timeframe for implementation: _____ to _____

And summarize actions to be implemented: _____

☒ Safe Harbor Determination - Select this only if:

a. The entity registering for this General Permit has obtained a Safe Harbor Determination from the Department's Wildlife Division regarding threatened and endangered species: i) within 3 years of the date of submitting this registration; or ii) more than 3 years before submitting this registration, but within one-year of a one-year extension issued by the Department's Wildlife Division to a safe harbor determination;

AND

b. The entity registering for this General Permit has provided to the Department's Wildlife Division any reasonably available verifiable scientific, or other credible information that the construction activity could reasonably be expected to have an adverse impact upon a federal or state species listed as threatened or endangered.

Provide the date the Department's Wildlife Division issued a Safe Harbor Determination: 12-3-2012

If applicable, provide the date that any one-year extension to a Safe Harbor Determination was issued by the Department's Wildlife Division: _____.

Note: Both a and b as used in this section, must be true in order for a Registrant to register for this General Permit using the Safe Harbor Determination option. If a Safe Harbor Determination was issued by the Department's Wildlife Division more than three years before the submission of this registration, and has not been extended, a Registrant cannot use any such safe harbor to comply with section 3(b)(2) and Appendix A of this General Permit. If a Safe Harbor Determination was granted and extended for one-year, more than four years before the submission of this registration, a Registrant cannot use any such Safe Harbor Determination to comply with Section 3(b)(2) and Appendix A of the general permit.

ATTACHMENT C: THREATENED AND ENDANGERED SPECIES (continued)

☐ **Select here if the safe harbor noted above includes a Mitigation Plan.**

Provide the date the Mitigation Plan was approved: _____

Governmental Entity Approving the Plan: _____

As of the date this Registration is submitted,

Has the Mitigation Plan been fully implemented? ☐ Yes ☐ No

Date commenced: _____ Date completed:_____

Is the Mitigation Plan partially implemented? ☐ Yes ☐ No

If yes, what actions have been taken?_____

And which actions are yet to be implemented and what is the timeframe for completion of such actions:_____

Is the Mitigation Plan yet to be implemented? ☐ Yes ☐ No

If yes, specify the timeframe for implementation: _____ to _____

And summarize actions to be implemented: _____

Connecticut Department of

ENERGY &
ENVIRONMENTAL
PROTECTION

December 3, 2012

Mr. David Fox
CT DEEP-Environmental Review
79 Elm Street, 3rd Floor
Hartford, CT 06106
david.fox@ct.gov

Project: New Administration, Repair and Storage Buildings by the Windham Regional Transit District on 4.5 Acres along South Frontage Road in Mansfield, Connecticut
Request No.: 201206852

Dear Dave,

I have reviewed Natural Diversity Data Base maps and files regarding the area delineated on the map you provided for the proposed construction of a new administration, repair and storage buildings by Windham Region Transit District on 4.5 acres of land on South Frontage Road near Route 195 in Mansfield, Connecticut. According to our information we have records for State Special Concern Species *Glyptemys insculpta* (wood turtle) from the vicinity of this property. I have included a fact sheet for wood turtle so you may be aware of the conservation needs of this turtle.

Wood turtles require riparian habitats bordered by floodplain, woodland or meadows. They hibernate in submerged tree roots along the banks of rivers and streams. Their summer habitat includes pastures, old fields, woodlands, power-line cuts and railroad beds adjacent to streams and rivers. This species has been negatively impacted by the loss of suitable habitat. Wood Turtles are most active between April and October.

The following guidelines should be implemented to conserve this turtle and its habitat in this area:

1. Silt fencing shall be installed around the work area prior to construction.

2. After silt fencing is installed and prior to construction, a sweep of the work area shall be conducted to look for turtles.

3. Workers shall be apprised of the possible presence of turtles and provided a description of the turtle. Any turtle that is found on site should be moved, unharmed to an area immediately outside of the fenced area and position in the same direction that it was walking.

4. No vehicles or heavy machinery should park in any turtle wood habitat.

5. Work conducted during early morning and evening hours should proceed with special care not to harm basking or foraging turtles.

6. All silt fencing should be removed after the work is completed and soils are stable so that movement between uplands and wetlands is not restricted.

Natural Diversity Data Base information includes all information regarding critical biological resources available to us at the time of the request. This information is a compilation of data collected over the years by the Department of Energy and Environmental Protection's Natural History Survey and cooperating units of DEEP, private conservation groups and the scientific community. This information is not necessarily the result of comprehensive or site-specific field investigations. Consultations with the Data Base should not be substitutes for on-site surveys required for environmental assessments. Current research projects and new contributors continue to identify additional populations of species and locations of habitats of concern, as well as, enhance existing data. Such new information is incorporated into the Data Base as it becomes available.

Please contact me if you have further questions at (860) 424-3592, or dawn.mckay@ct.gov . Thank you for consulting the Natural Diversity Data Base. Also be advised that this is a preliminary review and not a final determination. A more detailed review may be conducted as part of any subsequent environmental permit applications submitted to DEEP for the proposed site.

Sincerely,

Dawn M. McKay

Dawn M. McKay
Environmental Analyst 3

WILDLIFE IN CONNECTICUT

STATE SPECIES OF SPECIAL CONCERN

Wood Turtle

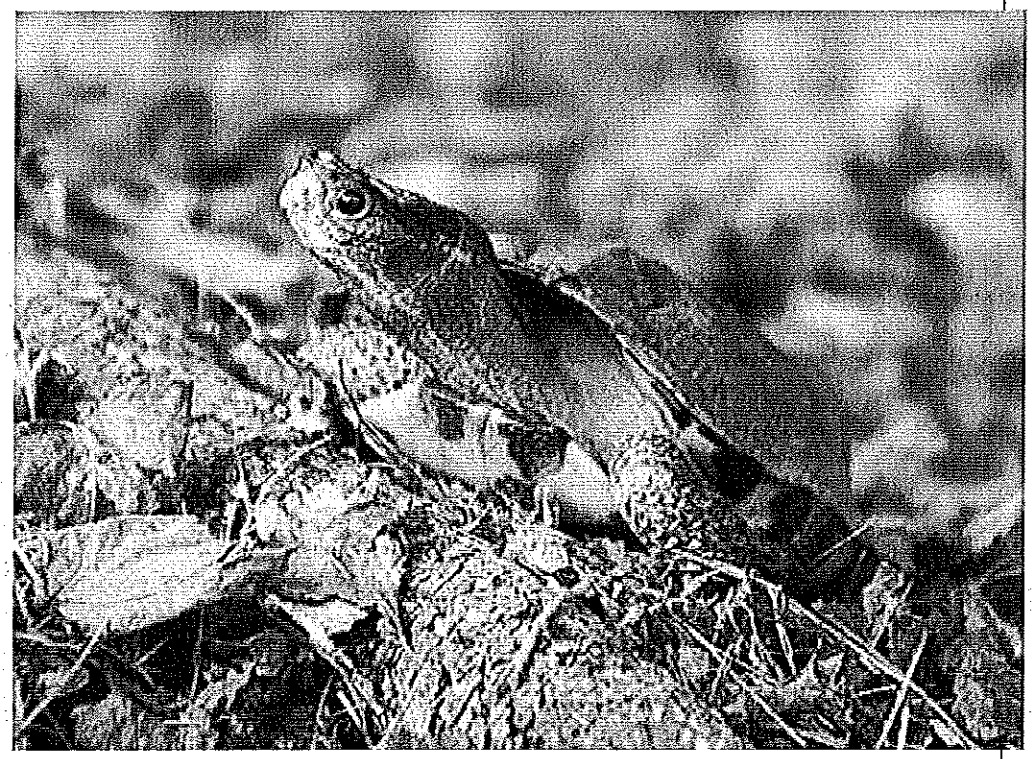
Glyptemys insculpta

Background

Wood turtles may be found throughout Connecticut, but they have become increasingly rare due to their complex habitat needs. Wood turtles also have become more scarce in Fairfield County due to the fragmentation of suitable habitat by urban development.

Range

Wood turtles can be found across the northeastern United States into parts of Canada. They range from Nova Scotia through New England, south into northern Virginia, and west through the Great Lakes region into Minnesota.



© PAUL J. FUSCO

Description

The scientific name of the wood turtle, *Glyptemys insculpta*, refers to the deeply sculptured or chiseled pattern found on the carapace (top shell). This part of the shell is dark brown or black and may have an array of faint yellow lines radiating from the center of each chiseled, pyramid-like segment due to tannins and minerals accumulating between ridges. These segments of the carapace, as well as those of the plastron (bottom shell), are called scutes. The carapace also is keeled, with a noticeable ridge running from front to back. The plastron is yellow with large dark blotches in the outer corners of each scute. The black or dark brown head and upper limbs are contrasted by brighter pigments ranging from red and orange to a pale yellow on the throat and limb undersides. Orange hues are most typical for New England's wood turtles. The hind feet are only slightly webbed, and the tail is long and thick at the base. Adults weigh approximately 1.5 to 2.5 pounds and reach a length of 5 to 9 inches.

Habitat and Diet

Wood turtles use aquatic and terrestrial habitats at different times of the year. Their habitats include rivers and large streams, riparian forests (adjacent to rivers), wetlands, hayfields, and other early successional habitats. Terrestrial habitat that is usually within 1,000 feet of a suitable stream or river is most likely used. Preferred stream conditions include moderate flow, sandy or gravelly bottoms, and muddy banks.

Wood turtles are omnivorous and opportunistic. They are not picky eaters and will readily consume slugs, worms, tadpoles, insects, algae, wild fruits, leaves, grass, moss, and carrion.

Life History

From late spring to early fall, wood turtles can be found roaming their aquatic or terrestrial habitats. However, once temperatures drop in autumn, the turtles retreat to rivers and large streams for hibernation. The winter

is spent underwater, often tucked away below undercut riverbanks within exposed tree roots. Dissolved oxygen is extracted from the water, allowing the turtle to remain submerged entirely until the arrival of spring. Once warmer weather sets in, the turtles will become increasingly more active, eventually leaving the water to begin foraging for food and searching for mates. Travel up or down stream is most likely, as turtles seldom stray very far from their riparian habitats.

Females nest in spring to early summer, depositing anywhere from 4 to 12 eggs into a nest dug out of soft soil, typically in sandy deposits along stream banks or other areas of loose soil. The eggs hatch in late summer or fall and the young turtles may either emerge or remain in the nest for winter hibernation. As soon as the young turtles hatch, they are on their own and receive no care from the adults.

Turtle eggs and hatchlings are heavily preyed upon by a wide variety of predators, ranging from raccoons to birds and snakes. High rates of nest predation and hatchling mortality, paired with the lengthy amount of time it takes for wood turtles to reach sexual maturity, present a challenge to maintaining sustainable populations. Wood turtles live upwards of 40 to 60 years, possibly more.

Conservation Concerns

Loss and fragmentation of habitat are the greatest threats to wood turtles. Many remaining populations in Connecticut are low in numbers and isolated from one another by human-dominated landscapes. Turtles forced to venture farther and farther from appropriate habitat to find mates and nesting sites are more likely to be run over by cars, attacked by predators, or collected by people as pets.

Other sources of mortality include entanglements in litter and debris left behind by people, as well as strikes from mowing equipment used to maintain hayfields and other early successional habitats.

The wood turtle is imperiled throughout a large portion of its range and was placed under international trade regulatory protection through the Convention on International Trade in Endangered Species (CITES) in 1992. Wood turtles also have been included on the International Union for Conservation of Nature's (IUCN) Red List as a vulnerable species since 1996. They are listed as a species of special concern in Connecticut and protected by the Connecticut Endangered Species Act.

How You Can Help

- *Conserve riparian habitat. Maintaining a buffer strip of natural vegetation (minimum of 100 feet) along the banks of streams and rivers will protect wood turtle habitat and also help improve the water quality of the stream system. Stream banks that are manicured (cleared of natural shrubby and herbaceous vegetation) or armored by rip rap or stone walls will not be used by wood turtles or most other wildlife species.*
- *Do not litter. Wood turtles and other wildlife may accidentally ingest or become entangled in garbage and die.*
- *Leave turtles in the wild. They should never be kept as pets. Whether collected singly or for the pet trade, turtles that are removed from the wild are no longer able to be a reproducing member of a population. Every turtle removed reduces the ability of the population to maintain itself.*
- *Never release a captive turtle into the wild. It probably would not survive, may not be native to the area, and could introduce diseases to wild populations.*
- *As you drive, watch out for turtles crossing the road. Turtles found crossing roads in June and July are often pregnant females. They should* ***not*** *be collected but can be helped on their way. Without creating a traffic hazard or compromising safety, drivers are encouraged to avoid running over turtles that are crossing roads. Also, still keeping safety precautions in mind, you may elect to pick up turtles from the road and move them onto the side in the direction they are headed. Never relocate a turtle to another area that is far from where you found it.*
- *Learn more about turtles and their conservation concerns, and educate others.*
- *If you see a wood turtle, leave it in the wild, take a photograph, record the location where it was seen, and contact the Connecticut Department of Environmental Protection (DEP) Wildlife Division at dep.wildlife@ct.gov, or call 860-424-3011 to report your observation.*

State of Connecticut
Department of Environmental Protection
Bureau of Natural Resources
Wildlife Division
www.ct.gov/dep

4/2011

March 25, 2013

Mr. Mark Alexander
Office of Environmental Planning
Department of Transportation
2800 Berlin Turnpike
Newington, CT

Subject: Comments on Completed Archaeological Investigations of State No. 474-0073, WRTD Bus Facility, Mansfield

Dear Mr. Alexander,

The State Historic Preservation Office has reviewed the end of fieldwork memorandum prepared by Archaeological and HistoricalServices, Inc. for the referenced archaeological surveys. The Department of Transportation proposes a Regional Transit District Facility in the Southeast corner of the Town of Mansfield to serve the Windham County area. The facility will include parking for buses (2) and cars (4), an administration building that includes garages, and a cold storage building. In total it is expected that the combined buildings and parking will be approximately 4 acres in extant. At the Office of Environmental Planning's recommendation and with SHPO's concurrence, AHS conducted an archaeological reconnaissance survey and subsequent intensive survey to assess potential project effects to subsurface resources. Based on the technical memorandum reviewed by our office, it appears that the archaeological investigations were completed in accordance with our *Environmental Review Primer for Connecticut's Archaeological Resources.*

The reconnaissance ("Phase I") survey resulted in the identification of a small pre-Contact period Native American site (Site 78-189) within the Area of Potential Effects. The site yielded a small number of quartz and quartzite flakes associated with the manufacture and maintenance of stone tools. Subsequent testing of the site area during the intensive ("Phase II") survey failed to produce any additional artifacts or other evidence of a significant archaeological resource. As stated by AHS, "The area may be associated with a small kill and/or butchery site, but too little cultural material is present to clearly interpret its use. In AHS's opinion this small site does not meet the minimum requirements for listing in the National Register of Historic Places, thus no further work is recommended within the APE." SHPO concurs with AHS' professional assessment.

Based on the summary of excavations, it is our opinion that no historic properties will be affected by the proposed construction of the WRTD facilities. This opinion is conditional upon submittal of a full technical report of the archaeological investigations to our office before October 1st, 2013. These comments update and supersede all previous correspondence from SHPO regarding this project.

Alexander - State No. 474-0073, WRTD Bus Facility, Mansfield
March 25, 2013
(Page 2/2)

The State Historic Preservation Office appreciates the opportunity to review and comment upon this project. These comments are provided in accordance with the Connecticut Environmental Policy Act. For further information please contact me at (860) 256-2761 or Daniel.Forrest@CT.gov.

Sincerely,

Daniel T Forrest

Daniel T. Forrest
Deputy State Historic Preservation Officer

CC: K. Knowles/THPO-MPTN
N. Bellantoni/OSA

END-OF-FIELDWORK MEMORANDUM
PHASE I AND II CULTURAL RESOURCE SURVEYS
PROPOSED WRTD BUS FACILITY
MANSFIELD, CONNECTICUT

STATE PROJECT NO. 474-0073

Prepared by

Archaeological and Historical Services, Inc.
569 Middle Turnpike
Storrs, CT 06268

Under

Task order Historic/Archaeological Services Contract
Agreement No. 10.26-01(11)

For

Connecticut Department of Transportation
2800 Berlin Turnpike
Newington, CT 06131

Author:
Brian Jones, Ph.D.

March 22, 2013

I. INTRODUCTION AND SCOPE OF WORK

A. Introduction

The Connecticut Department of Transportation (CTDOT) is proposing the construction of a Regional Transit District Facility in the southeast corner of the Town of Mansfield (Figure 1). Designed to serve the Windham County area, the facility will include parking for buses (2) and cars (4), an administration building inclusive of garages, and a cold-storage building. The Area of Potential Effect (APE) is approximately four acres. The Connecticut Department of Transportation Office of Environmental Planning (OEP) conducted a field review of the APE and assessed the landscape as mostly undisturbed, despite the construction of the present four lanes of U.S. Route 6 and the frontage road (Route 633) south of the APE.[1] The OEP noted that

> Sawmill Brook flows east of the project area mostly underground today but still approximately in its original course. Conantville Road in an earlier configuration ran in a north and south alignment just east of the proposed facility location. It appears that as of 1934 and 1965 aerial photographs the area was undeveloped and used probably as pasture with no evidence of historic structures associated with the APE (Figure 1). The OEP recommended an archaeological survey based on its evaluation of the relatively undisturbed soils in the APE and the proximity of a watercourse, and requested concurrence by SHPO for the recommended archaeological survey or a finding of effect for this project.[2]

OEP staff archaeologist, Mandy Ranslow, in January 2013, placed three-inch auger test pits in nine locations throughout the APE. Eight of the nine auger tests appeared to have intact plowzones overlying intact subsoil, thus indicating soil integrity and related potential for intact archaeological sites, in the APE. The OEP thus recommended that a Phase I Cultural Resource Survey be conducted of the APE before project construction begins. The SHPO concurred with the OEP's recommendation.[3]

AHS completed the requested combined Phase IA (assessment) and Phase IB (reconnaissance) survey under our Task-order Historic/Archaeological Services Contract with CTDOT (Agreement No. 10.26-01(11)). A small pre-Contact locus, defined by lithic flakes, was identified in the APE. Assigned Connecticut archaeological site number 78-189, Phase II Intensive survey was recommended at this site to assess its potential eligibility for listing in the National Register of Historic Places. AHS conducted the Phase II survey upon verbal notice to proceed from CTDOT, on March 20, 2013. The Phase I and II surveys were conducted in accordance with the SHPO's *Environmental Review Primer for Connecticut's Archaeological Resources* (hereafter *Primer*). The results of the surveys are presented in this end-of-fieldwork summary. A comprehensive report is in preparation.

---

[1] Letter from Robert Cless, CTDOT, to Daniel Forrest, Deputy SHPO, regarding SHPO/Tribal Consultation Documentation for the WRTD Bus Facility, Mansfield, CT, July 17, 2012.

[2] Ibid.

[3] E-mail correspondence from Mandy Ranslow, CTDOT OEP, to Mary Harper, AHS, regarding WRTD Bus Facility, Mansfield, CT, January 9, 2013.

B. Scope of Work

The purpose of a Phase I Cultural Resources Survey is to locate any and all archaeological or historical resources which may be present in or impacted by an undertaking. Cultural resources include buried remains of human activity (archaeological sites) and above-ground historic resources such as mill ruins, buildings and structures. A Reconnaissance Survey is typically conducted in two stages: Phase IA and Phase IB. Phase IA, also known as assessment-level survey, is designed to identify above-ground historic resources and assess the potential of the project to impact buried archaeological sites. The tasks of the Phase IA survey included background documentary research and interviews, and walkover survey, inclusive of hand-powered small core/probe samples. Through these tasks, the archaeologically sensitive areas within the APE were narrowed. The Phase IA data also informed the placement of Phase IB test pits and interpretation of the testing results.

The Phase IB tasks included subsurface testing across the portions of the APE determined in the Phase IA to have moderate to high archaeological sensitivity; that is, the potential to contain intact, possibly significant archaeological sites. The Phase IB determined whether buried archaeological sites are present, and provided basic information on site type (i.e., pre-Colonial Native American or historic Euro-American) and integrity, but it is not intended to determine the potential eligibility of archaeological sites for listing in the National Register of Historic Places. Because a potentially National Register-eligible site was identified in the Phase IB testing of the APE, a Phase II Intensive Archaeological Survey was conducted to collect enough data to conclusively establish its National Register eligibility.

The purpose of a Phase II survey is to collect data on a site's age, vertical and horizontal limits and integrity, information critical to establishing the site's National Register eligibility. If Phase II Intensive Survey determines that an archaeological site meets one or more of the criteria for listing in the National Register, site avoidance is preferred. If avoidance is neither prudent nor feasible, Phase III Data Recovery excavations are recommended.

The criteria for listing in the National Register of Historical Places include the following; only one of the criteria needs to be met for a site to qualify for listing:

A. Association with events that have made a significant contribution to the broad patterns of our history;

B. Association with the lives of persons significant in our past;

C. Distinctive design or physical characteristics, including representation of a significant entity whose individual components may lack distinction;

D. Demonstrated ability, or potential to yield important information about prehistory or history.

II. PHASE I CULTURAL RESOURCE SURVEY TASKS

Task 1. Initial Field Visit/Coordination with CTDOT

OEP staff archaeologist Many Ranslow made a preliminary assessment of the APE's archaeological sensitivity. Using a hand-auger, Ranslow determined that portions of the APE included intact soils that had the potential to contain archaeological resources in an intact context. Utilizing the maps provided by CTDOT, AHS archaeologists walked the APE and supplemented Ranslow's auger survey with our own. AHS determined that 2.6 acres of the four-acre APE contained intact sediments, confirming DOT's assessment of potential archaeological sensitivity. Some portions of the project area also evidenced prior disturbance and were deemed unlikely to produce archaeological remains in an intact context. Other portions of the APE include very steep grades, which were deemed unlikely locations for past human activity. These areas, comprising 1.4 acres, were not recommended for Phase IB cultural subsurface testing.

Task 2. Documentary Research and Interviews

This task involved research in the files of archaeological sites reported to the Office of State Archaeology and SHPO, review of cultural resource management reports on projects conducted in the APE vicinity, and published and unpublished articles on archaeology in the APE vicinity. The known prehistory and early environment of the APE was also researched to establish the pre- and post-Colonial archaeological sensitivity of the APE. Pre-Colonial peoples were often drawn to water sources or wetlands, such as the numerous brooks and rivers in the APE vicinity (Figure 1). Sometimes no reported prehistoric sites may be known in or near an APE, despite the presence of environmental features known to often be associated with Native American sites, but this is usually reflective of a lack of professional archaeological survey in the area, or avocational archaeologists not reporting artifact finds. No professional survey has been done in the immediate vicinity of the APE. However, extensive surveys were conducted to the east in the Mansfield Hollow State Park reservoir area; these surveys identified numerous prehistoric sites in environmental settings not dissimilar to the APE's.

Historic maps, town histories, and primary sources were examined to establish a historic context for predicting and interpreting historic-period archaeological sites in the APE. Historic data, such as aerial photographs, are also helpful in revealing past pervasive ground disturbance not obvious today. No historic structures are depicted on any historic maps dating back to 1857.

Interviews were also part of the survey. CTDOT personnel provided information on the sensitivity of the APE.

The prehistoric and historic documentary research will be synthesized in the forthcoming comprehensive final report, along with any information gathered in interviews, to summarize the prehistoric and historic contexts used to refine predictions and expectations of archaeological or other cultural resources in the APE.

Task 3. Fieldwork (Archaeology)

Task 3a. Phase IA Assessment Survey. In the Phase IA Assessment Survey, AHS carefully walked over the APE, looking for signs of deep, pervasive disturbance, where Phase IB testing was not warranted because subsurface integrity had been destroyed. AHS also looked for signs of archaeological potential, inclusive of apparently relatively undisturbed ground surface, particularly attractive areas (for pre-Colonial peoples) such as well-drained soils near a water

source or wetland. Data gathered in the Phase IA background research and interview task were applied in the field, to help determine what portions of the APE had moderate to high archaeological sensitivity and what types of sites may be reasonably expected. Often, APEs manifest some superficial, apparent disturbance, but intact subsoil lies beneath. For this reason, the walkover investigation was supplemented with hand-auger sediment sampling.

As part of the walkover, above-ground remains of historic resources were looked for, as well as historic landscape features and cultural features of potential significance to Native American groups, though none were noted.

Based on the CTDOT preliminary auger testing and field notes, approximately one-fourth of the eastern portion of the APE appeared disturbed by land modification associated with the adjacent commuter parking lot. AHS placed an additional 24 hand-powered cores in the APE to further assess its archaeological sensitivity. The cores confirmed disturbance in the eastern portion of the APE, as well as disturbance on the southern border along South Frontage Road. AHS assessed these areas as having no archaeological potential and recommended no subsurface testing there. In addition, steep slopes associated with the glacial mound in the center of the APE have little archaeological sensitivity. AHS concluded that a maximum of 2.6 acres of the four-acre APE possessed archeological sensitivity and warranted Phase IB subsurface testing.

Task 3b. Subsurface testing. AHS conducted shovel-test-pit sampling in the 2.6 acres of the APE that appeared to be reasonably intact. The test pits were placed at 10-meter intervals (42 pits/acre) due to the APE's potential for containing small Native American campsites, based on the identification of small sites in very similar environmental settings. Such small sites would not be detectable with larger-interval testing. Testing of the 2.6-acre sensitive area was estimated to require 109 STPs. Eighty-nine shovel test pits, placed along eight transects, were found to be sufficient to adequately cover sensitive portions of the APE during the Phase IB survey (Figure 2).

To augment the 10-meter-interval testing and ensure that the goal of identifying all locations of buried archaeological sites was met, AHS also proposed additional judgment test pits to be used in off-transect sampling; these were to be applied to micro-areas of particularly high archaeological sensitivity missed by the transect/interval testing. We also included in the non-transect test pit block a group of pits to be used as array pits (four pits placed around a potentially significant artifact concentration/findspot). Such pits are used to determine if isolated artifacts represent stray, insignificant finds or if they are associated with additional materials that may require further survey at the Phase II level. A total of 16 judgment and/or array pits were proposed. A single judgmental pit and 12 array pits were actually used during the Phase IB survey, bringing the total number of shovel test pits excavated to 102 (Figure 2).

In the Phase II testing, 13 pits were placed in the area of Site 78-189, identified in the Phase IB testing (Figure 3).

All test pits measured 50 x 50-centimeters in plan and were dug in 10- to 20-centimeter intervals and by natural stratigraphy, with shovel and trowel, until sterile subsoil, the water table, or large impenetrable objects made continuation of the test pit impossible. Average depth excavated was between 60 and 90 cm (two to three feet) depending on local soil conditions. All test pits extended into the underlying glacial sediments to ensure no cultural materials were missed. All soil was screened through ¼-inch mesh and all recovered artifacts were bagged for laboratory processing. The pits were backfilled and tamped down, with the sod and ground surface restored to original grade.

The pits were be mapped onto project plans on paper and later transferred to a GIS to permit expedient overlay on project plans, historical maps, and layers containing environmental data (Figures 2 and 3).

Task 4. Fieldwork (Historic documentation)

No standing structures or visible historic remains in or adjacent to the APE were identified.

Task 5. Artifact Processing and Curation

All recovered artifacts and ecofacts were cleaned, identified, and catalogued in AHS's laboratory. Every artifact was rebagged into clear plastic ziplock bags into which were also placed acid-free labels containing project information, artifact number, test pit number, etc. A detailed artifact inventory list was produced, which is tied to our GIS system so that accurate plots of artifact distributions can be readily produced. This significantly streamlines both analysis and figure production.

The few (N=6) artifacts recovered have been placed in polypropylene boxes for permanent curation at the Office of State Archaeology or CTDOT's Pascone Center.

Task 6. Deliverables

This end-of-fieldwork letter was written immediately after the completion of the field testing and artifact cataloguing. A comprehensive report, prepared in accordance with the *Primer*, is in preparation, and will include detailed summaries of all facets of research, methodology and results, and recommendations. A draft report will be submitted to CTDOT in electronic format. Following review and comment by CTDOT, and any requested revisions made, five reports, plus a PDF CD-ROM copy, will be produced.

Task 7. Continuing Coordination with CTDOT

This task includes coordination throughout the survey, and particularly in the draft-to-final report phase, and involving recommendations regarding additional work in an APE.

III. RESULTS OF THE PHASE I AND II ARCHAEOLOGICAL SURVEYS

AHS staff completed the transect testing of the Phase IB survey and the single judgment pit in January 2013, but weather conditions prevented excavation of array pits around findspots. During the Phase IB survey, 102 shovel test pits were excavated. Eighty-nine test pits were located along transects numbered T1 through T8 (Figure 2). The transects were spaced at approximate 10-meter intervals from one another and were oriented on a roughly east-west (magnetic) line, parallel to the embankment marking the northern edge of the APE where it abuts Route 6 and South Frontage Road on the south. Test pits were spaced at 10-meter intervals along the transects. The transects covered all areas determined to be undisturbed during the Phase IA walkover portion of the survey. Transects were interrupted by the steep grade in the center of the APE, where intact archaeological remains were deemed unlikely to occur. Other interruptions to the spacing of shovel test pits occurred where the ground was found to be locally disturbed, as between pits T7-2 and T7-3 along Transect T7, and along portions of Transect T8, nearest to Frontage Road (Figure 2).

On March 18, 2013, weather conditions permitted the excavation of array pits surrounding isolated findspots at locations T2-6, T2-21 and T3-7 (Figure 2). (The identification of a single glass fragment at T5-8 was not considered significant enough to warrant array testing.) These array pits were numbered A1 through A12. Table 1 summarizes the finds from these three transect pits and their associated array pits.

Table 1: Results of the Phase IB Testing

STP	Results	Depth	Soil Context
T2-6	1 crystal quartz flake 1 quartzite thick flake	30-40cm	B1/B2 subsoil
T2-21	1 crystal quartz bifacial retouch flake	40-50cm	B1 subsoil
T3-7	1 quartz primary reduction debris, possible non-cultural	16-30cm	A1 topsoil
T5-8	1 clear bottle glass lip fragment	32-40cm	B1 subsoil
A1 (north of T2-6)	1 quartzite biface thinning flake	30-40cm	B1 subsoil

The lithic (stone) flakes recovered from the APE indicate pre-Contact Native American activity. The artifacts are byproducts of stone tool manufacture and maintenance, typically found at archaeological sites across the region. The identification of even a single artifact during Phase I testing is therefore considered important enough to warrant further investigation. Sometimes the potential significance of such small finds can be ruled out during the Phase IB with the excavation of additional array test pits located very close to the original findspot(s). When no additional cultural material is identified, an artifact is considered an isolated find and is not considered to indicate the presence of additional potentially significant material. In this case, array pits were placed around the findspots at STPs T2-6, T2-21 and T3-7.

Array pits A1 through A4 were excavated around STP T2-6, which yielded a crystal quartz flake and thick quartzite flake from the subsoil. The array test pits were placed at the approximate four cardinal directions two meters from the original test pits. The eastern and southern array pits, A2 and A3 respectively, terminated on dense roots at 45-50cm below ground

surface, well into the subsoil, and did not produce any additional artifacts. The northern and western arrays encountered very damp sediments well into the subsoil and had to be terminated. Of these, the northern test pit A1 contained a single small quartzite biface thinning flake from the subsoil. The presence of this flake in a buried subsoil context, in addition to the quartzite and quartz flakes from nearby STP T2-6, indicated that this location should be further tested with a Phase II intensive survey.

Array pits A5 through A8 were placed two-meters from the findspot at T2-21, at which a small crystal bifacial retouch quartz flake was found in the subsoil. The northern and eastern pits (A5 and A6 respectively) terminated on rocks and roots between 59 and 73 cm below surface, well into the subsoil. STPs A7 and A8 were less stony and terminated between 83 and 100 cm, within the glacial C-horizon. No additional artifacts were identified in any of these array pits. The small quartz flake at T2-21 was therefore considered a stray find and no additional survey was recommended here.

Array test pits A9 through A12 were excavated around a quartz findspot at T3-7, which lay close to the cut bank above Route 6. STP A9 terminated on rocky ground at 59cm at the base of the subsoil. STP A10 terminated on wet sediments at 92cm, deep within a lower subsoil. STP A11 terminated 15cm into the C-horizon at 60cm, and STP A12 terminated on a cobble surface at the base of the subsoil at the same depth. No additional artifacts were identified in the array test pits, and the small fragment of cortical quartz debris from T3-7 was ruled insignificant. This small piece of quartz may represent a naturally fragmented pebble. No further archaeological survey was recommended around this findspot.

Based on the results of the Phase IB archaeological survey, the cultural material from T2-6 and A1 (a crystal quartz flake, quartzite flake and quartzite biface thinning flake) was designated Site 78-189 (Figure 3). AHS recommended that a small Phase II Intensive Survey be performed at this site to assess its National Register eligibility. Despite the low density of cultural material recovered, the finds came from intact subsoil contexts and may represent a small temporary camp or special-purpose location. CTDOT approved AHS's recommendation and the Phase II Intensive Survey testing was conducted on March 20, 2013. Phase II surveys are intended to provide higher-density sampling and larger site coverage than Phase I survey in order to provide a greater artifact sample and establish the spatial bounds of a site, data necessary for determining whether a site meets any of the criteria for listing on the National Register of Historic Places. Most pre-Contact Native American sites with good archaeological integrity fall under Criterion D, the demonstrated ability to yield important information about prehistory. It is generally understood that for this new information to rise to the level of significance, it must include new or uncommon findings about Native American lifeways, such as diet, residential mobility, the exchange economy or social organization.

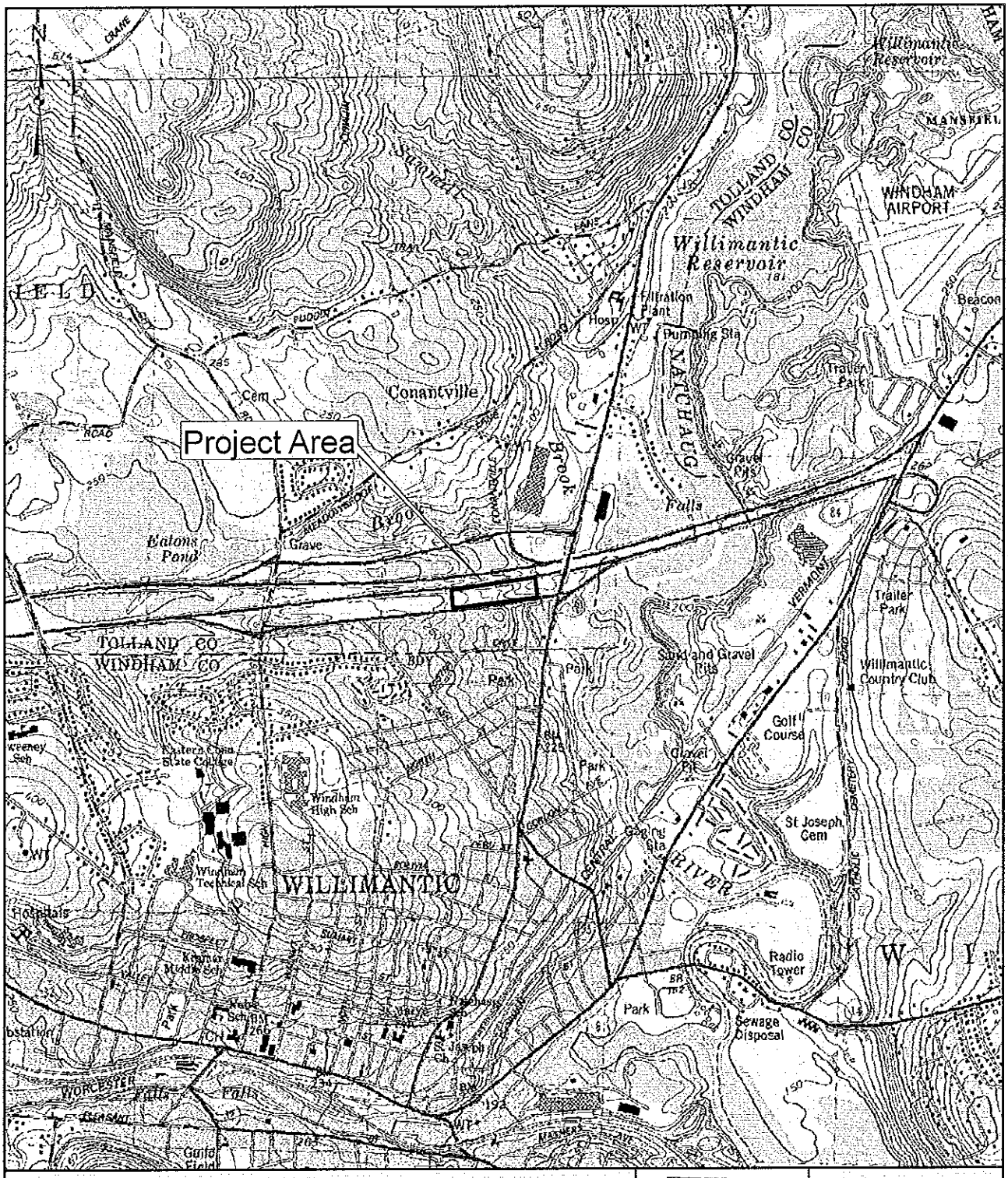
The Phase II testing included an additional 13 shovel test pits in the vicinity of STPs T2-6 and A1 (Figure 3). Site 78-189 is located in a small protected swale between two low knolls. Most of the Phase II test pits were placed at five-meter intervals on a coordinate system that held STP T2-6 as the site datum (N0E0). Four of the pits were placed at two-meter intervals from the original findspot in the northwest, northeast, southeast and southwest directions to balance the Phase I array test pits placed in the cardinal directions.

Though there was a cover of snow on the site, excavation and soil conditions were favorable during the Phase II survey. Two test pits terminated on root mats between 40 and 50cm depth (N0E5 and S1W2), but the others were excavated to between 60 and 70 cm, well into the lower subsoil. C-horizons were not encountered because most pits terminated on stone

lags that mark the transition to the top of glacial sediments. Four STPs extended below 85 cm in depth before encountering impenetrable sediments.

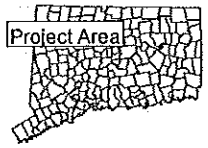
No additional cultural material was identified during the Phase II survey. AHS therefore interprets the small lithic scatter identified as Site 78-189 in the Phase I survey as a very ephemeral activity area where an individual stopped long enough to recondition some stone tools. The area may be associated with a small kill and/or butchery site, but too little cultural material is present to clearly interpret its use. In AHS's opinion this small site does not meet the minimum requirements for listing in the National Register of Historic Places, thus no further work is recommended within the APE.

The three artifacts found in the APE, outside of Site 78-189, include a glass bottle fragment from T5-8 in the extreme western portion; a crystal quartz bifacial retouch flake in T2-21 in the northwest corner; and a crystal quartz primary reduction flake from T3-7 on the northern border of the APE. The two lithic findspots were arrayed, but no additional cultural material was found. Neither flake can be confidently associated with Site 78-189 because of distance (between 25 and 150 meters) and isolated flakes and Site 78-189. These artifacts are therefore considered insignificant, not warranting additional archaeological investigation.



AHS

Figure 1:
Windham Region Transit District Bus Facility
Location of Phase I and II Archaeological Surveys



0 500 1,000 2,000 Feet

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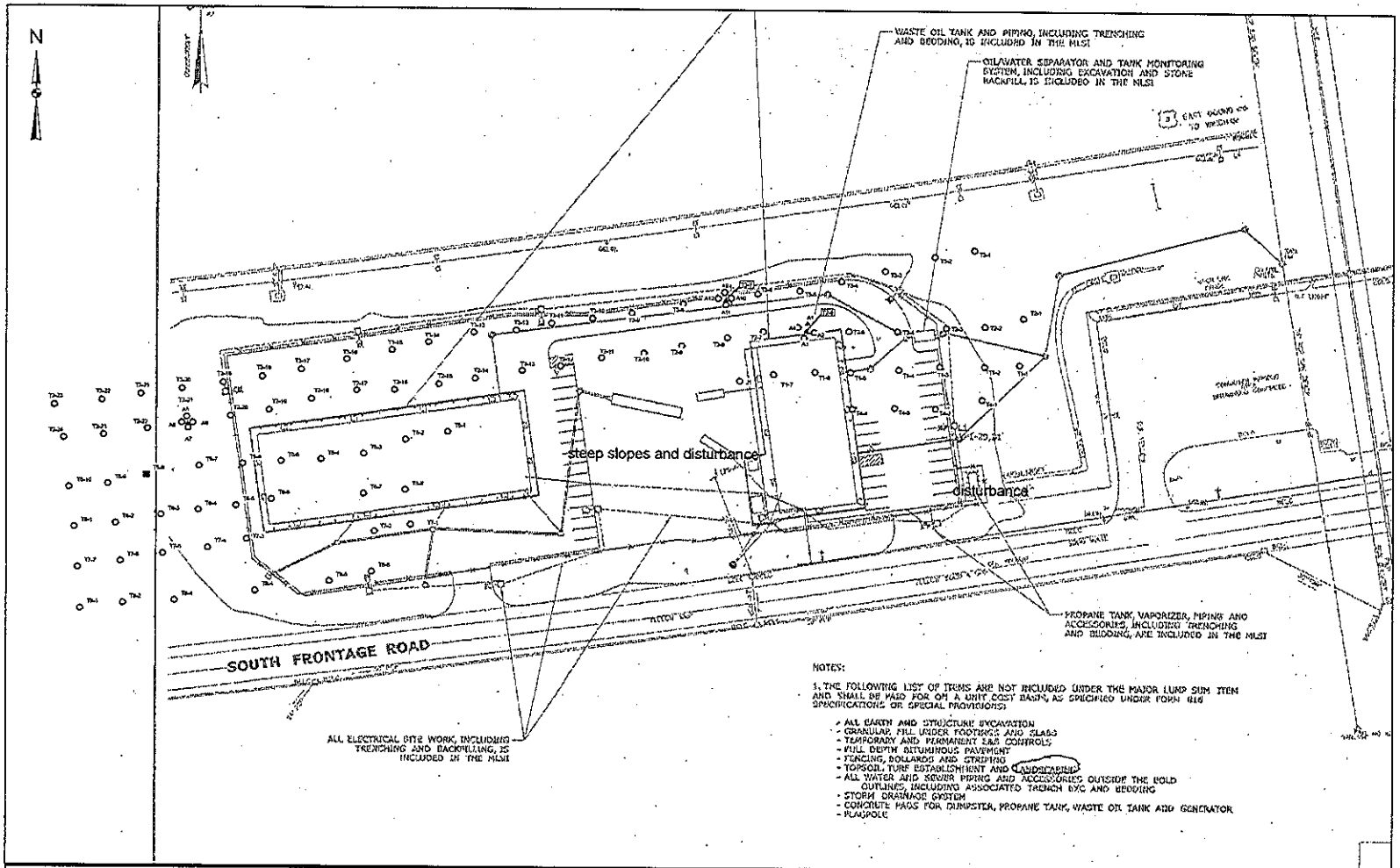
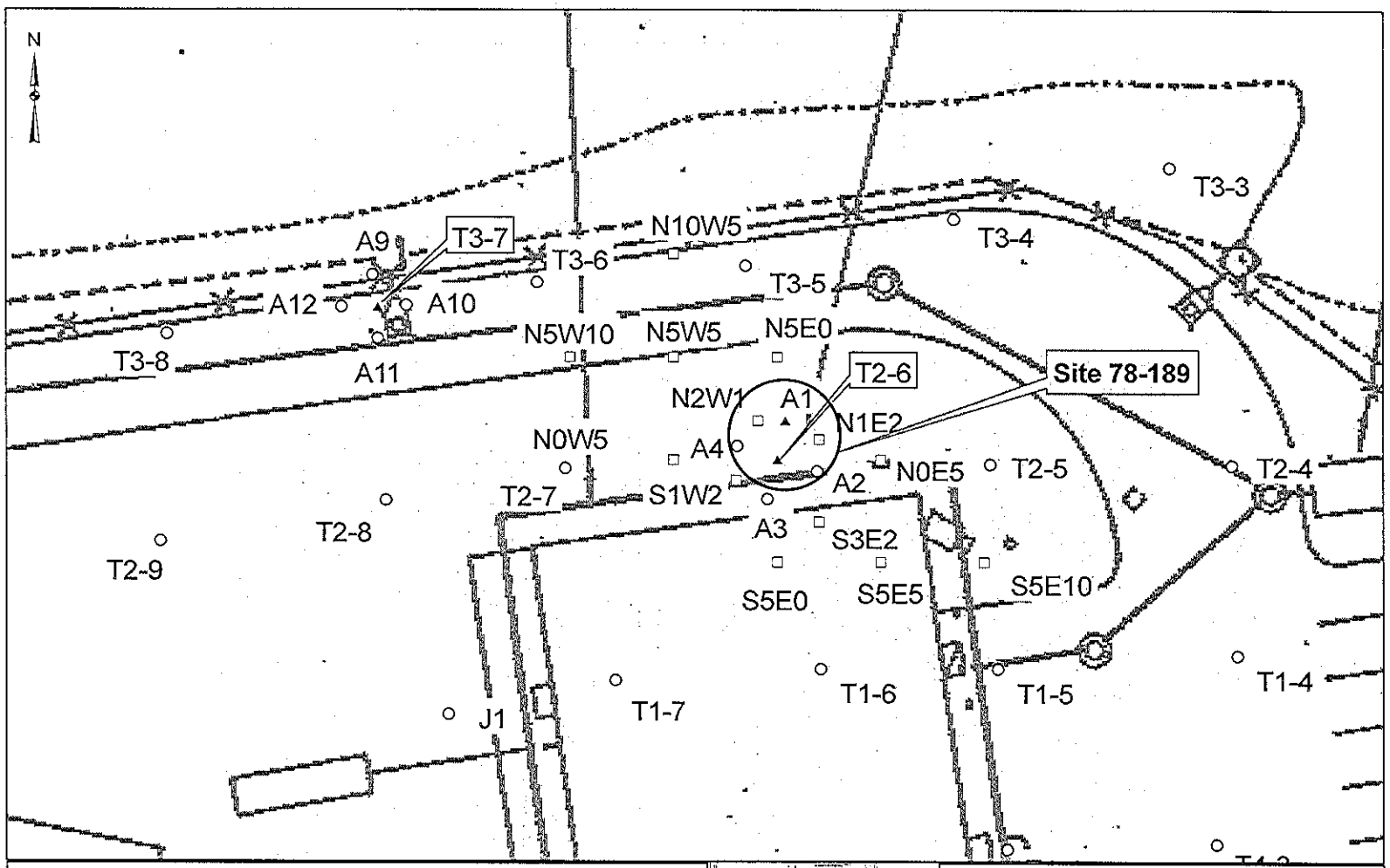


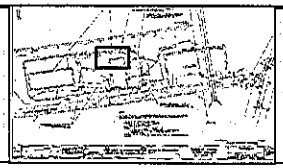
AHS

Figure 2:
Windham Region Transit District Bus Facility
Phase I Archaeological Survey Results



AHS

Figure 3:
Windham Region Transit District Bus Facility
Phase II Archaeological Survey Results



Legend
Phll STPs
Phase I STPs
Historic
Prehistoric
Sterile

0 10 20 Feet
0 2.5 5 Meters

4/24-0073

General Permit Registration Form for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities

Please complete this form in accordance with the general permit (DEP-PED-GP-015) in order to ensure the proper handling of your registration. Print or type unless otherwise noted. You must submit the *Permit Application Transmittal Form* (DEP-APP-001) and the registration fee along with this form.

DEP USE ONLY
Application No. _____
Permit No. _____
Facility I.D. _____

Part I: Registration Type

Enter a check mark in the appropriate box identifying the registration type.

This registration is for (check one):	Please identify any existing permit number in the space provided:
☒ A *new* general permit registration	Existing permit number:
☐ A *modification* of an existing general permit	*GSN*

Part II: Fee Information

☒ ***Registration only***	A registration fee of $625.00 is to be submitted with *each* registration that you are submitting at least 30 days before the initiation of construction activities.
☐ ***Registration and Plan Review***	All construction projects that result in the disturbance of ten or more acres require the submittal of a Stormwater Pollution Control Plan and a $625.00 plan review fee. The plan and the fee must be submitted 30 days prior to initiation of the construction activity. $625.00 registration fee + $625.00 review fee = $1,250.00 total fee

For municipalities, a 50% discount applies. The registration will not be processed without the fee. The fee shall be non-refundable and shall be paid by certified check or money order payable to the Department of Environmental Protection.

Part III: Registrant Information

1. Fill in the name of the registrant(s) as indicated on the *Permit Application Transmittal Form* (DEP-APP-001):

   Registrant: **Connecticut Department of Transportation**

   Phone: **860-594-2000** ext. Fax:

   ☐ Check here if there are co-registrants. If so, label and attach additional sheet(s) with the required information as supplied above.

Part III: Registrant Information (cont.)

2. List primary contact for departmental correspondence and inquiries, if different than the registrant.

Name: **Carl E. Nelson**

Mailing Address: **171 Salem Turnpike, P. O. Box 1007**

City/Town: **Norwich** State: **CT** Zip Code: **06360**

Business Phone: **860-823-3211** ext. Fax: **860-823-3111**

Site Phone: Emergency Phone:

Contact Person: Title:

Association (e.g. developer, general or site contractor, etc.):

3. List owner of the property on which the activity will take place, if different from registrant:

Name:

Mailing Address:

City/Town: State: Zip Code:

Business Phone: ext. Fax:

Contact Person: Title:

4. List developer, if different from registrant or primary contact:

Name:

Mailing Address:

City/Town: State: Zip Code:

Business Phone: ext. Fax:

Contact Person: Title:

5. Name and address of general contractor:

Name:

Mailing Address:

City/Town: State: Zip Code:

Business Phone: ext. Fax:

Site Phone: Off-hours Phone:

Contact Person: Title:

6. List any engineer(s) or other consultant(s) employed or retained to assist in preparing the registration and Stormwater Pollution Plan.

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

Name: **Connecticut Department of Transportation**

Mailing Address: **2800 Berlin Turnpike, P. O. Box 317546**

City/Town: **Newington** State: **CT** Zip Code: **06131-2613**

Business Phone: **860-594-3300** ext. Fax: **860-594-3375**

Contact Person: **John W. Waleszczyk** Title: **Trans. Supv. Engineer**

Service Provided:

Part IV: Site Information

1. Site or Project Name (if any): **Windham Regional Transit District Bus Facility**

   Street Address or Description of Location: **South Frontage Road**

   City/Town: **Mansfield** State: **CT** Zip Code: **06205**

2. Brief description of construction activity: **Construction of a Regional Transit District bus facility**

3. Start Date: **8/2013** Anticipated Completion Date: **11/2014**

4. Estimated total number of acres to be disturbed: **3.4**

Part V: Stormwater Discharge Information

1. Where does stormwater discharge to:

   ☐ Municipal Separate Storm System? ☐ Yes ☒ No (Name):

   ☐ Surface water body or wetlands? ☐ Yes ☒ No (Name):

2. Is the discharge located less than 500 feet from a tidal wetland, which is not a fresh-tidal wetland?

   ☐ Yes ☒ No

3. Name of the watershed where the site is located OR nearest waterbody to which it discharges:

   3208-00-2-R1

4. Is construction in accordance with the Guidelines established under Section 22a-329 of the Soil Erosion and Sedimentation Act? ☒ Yes ☐ No

5. Is construction in accordance with local soil erosion and sediment ordinances? ☒ Yes ☐ No

   Note: A copy of this registration and the Stormwater Pollution Control Plan must be available to the town wetlands enforcement officials, wetlands commission, or their equivalent.

6. Will the construction project disturb over ten acres? ☐ Yes ☒ No

   If yes, enclose a copy of the Stormwater Pollution Control Plan and plan review fee.

7. Has the construction project been reviewed for compliance with the following DEP programs?

   a. Coastal Management Act (Section 22a-92 of the Connecticut General Statutes) ☐ Yes ☒ No

   b. Endangered and Threatened Species (Section 26-306 of the Connecticut General Statutes) ☒ Yes ☐ No

   c. State and Federal Historic Preservation statutes? ☒ Yes ☐ No

Part VI: Supporting Documents

Check the box by the attachments being submitted as verification that *all* applicable attachments have been submitted with this registration form. 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 registrant's name as indicated on the *Permit Application Transmittal Form*.

☒	Attachment A:	An 8 1/2" x 11" copy of the relevant portion or a full-sized original of a USGS Quadrangle Map indicating the exact location of the facility or site. Indicate the quadrangle name on the map. (To obtain a copy of the relevant USGS Quadrangle Map, call your town hall or DEP Maps and Publications Sales at 860-424-3555.)
☐	Attachment B:	A copy of the Stormwater Pollution Control Plan and plan review fee of $625.00, if the construction project disturbs over 10 acres

Part VII: Environmental Professional Certification

The following certification must be signed by a professional engineer, licensed to practice in Connecticut.

"I certify that I have thoroughly and completely reviewed the Stormwater Pollution Control Plan for the site. I further certify, based on such review and in my professional judgment, that the Stormwater Pollution Control Plan has been prepared in accordance with the Connecticut Guidelines for Soil Erosion and Sediment Control, as amended, and the conditions for the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities and the controls required for such Plan are appropriate for the site. I am aware that there are significant penalties for false statements in this certification, including the possibility of fine and imprisonment for knowingly making false statements."

Signature of Professional Engineer

2/5/13
Date

MICHAEL G. FISHER
Name of Professional Engineer (print or type)

21170
P. E. Number (if applicable)

Affix P. E. Stamp Here

STATE OF CONNECTICUT
MICHAEL G. FISHER
No. 21170
LICENSED
PROFESSIONAL ENGINEER

Part VIII: Registrant Certification

The registrant *and* the individual(s) responsible for actually preparing the registration must sign this part. A registration will be considered incomplete unless all required signatures are provided.

"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 those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief. I certify that this general permit registration is on complete and accurate forms as prescribed by the commissioner without alteration of the text. I understand that a false statement made in the submitted information may be punishable as a criminal offense, in accordance with section 22a-6 of the Connecticut General Statutes, pursuant to section 53a-157b of the Connecticut General Statutes, and in accordance with any other applicable statute.

I also certify under penalty of law that I have read and understand all conditions of the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities, that all conditions for eligibility for authorization under the general permit are met, all terms and conditions of the general permit are being met for all discharges which have been initiated and are the subject of this registration, and that a system is in place to ensure that all terms and conditions of this general permit will continue to be met for all discharges authorized by this general permit at the site. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowingly making false statements."

Signature of Registrant	12/6/13 Date
Carl E. Nelson Name of Registrant (print or type)	**District Engineer, District 2** Title (if applicable)
Signature of Preparer (if different than above)	1-23-13 Date
John W. Waleszczyk Name of Preparer (print or type)	**Trans. Supv. Engineer** Title (if applicable)

☐ Check here if additional signatures are necessary.
If so, please reproduce this sheet and attach signed copies to this sheet.

Note: Please submit the *Permit Application Transmittal Form*, the Registration Form, Fee(s), and all Supporting Documents to:

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

Note: If discharging to municipal separate storm sewer, send a copy of this completed registration form to the owner or operator of that system.

If discharging to a public drinking water supply watershed or aquifer area, send a copy of this completed registration form to the appropriate water company.

STORMWATER POLLUTION CONTROL PLAN

Construction of Bus Facility
Windham Region Transit District
Mansfield, CT

State Project No.: 474-0073

Connecticut Department of Transportation

December 2012

This Stormwater Pollution Control Plan (SPCP) is prepared to comply with the requirements for the General Permit for Stormwater Discharges (GPSD) from Construction Activities. Also to be considered part of the SPCP are the proposed construction plans, special provisions, and the Connecticut Department of Transportation's "Standard Specifications for Roads, Bridges and Incidental Construction" (Form 816) including supplements thereto and the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control

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Site Description

1.1 Project Description

This project includes the construction of a bus administration and repair building, a cold storage building and associated site improvements on South Frontage Road adjacent to the commuter lot near Route 195 in Mansfield. Construction is scheduled to begin in August 2013 is expected to last 15 months.

This facility will accommodate the buses and personnel currently associated with the existing Windham Region Transit District (WRTD) operations. WRTD currently leases an inadequate administration facility with outside bus storage on Ash Street in Willimantic.

The facility includes the construction of two buildings. The first building will include 3,600 square feet for administrative offices and 4,330 square feet for vehicle repair bays. This building will be a single-story, steel-framed building with masonry and metal siding. The second building will include 14,626 square feet for enclosed vehicle parking. This single-story pre-engineered building will be metal sided. Work associated with these buildings includes concrete, masonry, structural steel, steel joists, metal roof deck, waterproofing, metal panels, membrane roofing, roofing accessories, sheet metal, standard steel doors and frames, overhead doors, aluminum windows, hardware, glazing, vehicle service equipment, appliances, interior finishes and furnishings, plumbing, heating-ventilating-air conditioning, electrical systems, lighting, communications systems, and electronic safety and security systems.

Site work associated with the Facility consists of excavation and grading work to accommodate the buildings and the access road; regrading of the site for storm runoff; installation of drainage structures; installation of an underground oil-water separator; installation of building utilities; installation of pavement; the two facility structures; curbing; fencing; turf establishment; employee parking; and exterior site lighting.

No environmental work is associated with this facility.

1.2 Estimated Disturbed Area

The total disturbed area for the project is 3.3 acres. The existing site is served by three collection points (see Figure 1).

1. The first point is an inlet, approximately in the middle of the site. Of the 3.3 total disturbed acres, this outlet collects stormwater from 1.8 acres. This inlet connects into the downstream end of a larger system serving South Frontage Road and the surrounding area. The outlet of this system discharges at the downstream end of the existing box culvert that crosses beneath the commuter lot.

2. The second point is two catchbasin inlets adjacent to the shoulder of Route 6 eastbound, which collect stormwater from 0.4 acres. This system outlets at the upstream end of the existing culvert that crosses beneath the commuter lot.

3. The third point is an inlet between the commuter lot and Route 6, which currently collects stormwater from 1.1 acres. This system also discharges into the box culvert.

1.3 Estimated Runoff Coefficient

The runoff coefficient assumed for pavement is 0.9 and 1.0 for the buildings. For the pervious areas (hydrologic soil group B), a coefficient of 0.2 was assumed for slopes 3:1 or flatter, with a coefficient of 0.4 for steeper slopes. Contributing areas for pre-construction and post-construction conditions are shown on Figures 1 and 2.

Collection Point #1: Pre-Construction $\frac{(1.5 \text{ ac.} \times 0.2) + (0.3 \text{ ac.} \times 0.4)}{1.8 \text{ ac.}} = 0.23$

Post-Construction $\frac{(0.9 \text{ ac.} \times 0.2) + (0.5 \text{ ac.} \times 0.9) + (0.5 \text{ ac.} \times 1.0)}{1.9 \text{ ac.}} = 0.59$

Collection Point #2: Pre-Construction $\frac{(0.2 \text{ ac.} \times 0.2) + (0.1 \text{ ac.} \times 0.4)}{0.4 \text{ ac.}} = 0.20$

Post-Construction $\frac{(0.4 \text{ ac.} \times 0.2) + (0.4 \text{ ac.} \times 0.9)}{0.8 \text{ ac.}} = 0.55$

Collection Point #3: Pre-Construction $\frac{(1.0 \text{ ac.} \times 0.2) + (0.1 \text{ ac.} \times 0.4)}{1.1 \text{ ac.}} = 0.22$

Post-Construction $\frac{(0.3 \text{ ac.} \times 0.2) + (0.3 \text{ ac.} \times 0.9)}{0.6 \text{ ac.}} = 0.55$

1.4 Receiving Waters

The receiving water for all three outlets is the brook that runs approximately 1500' from the culvert to the Natchaug River.

Construction Sequencing

The contractor will be given 12 months for the construction of the project.

~~The contractor will be given 15 months for the construction of the project.~~

The suggested sequence of construction is as follows:

1. Conduct a preconstruction meeting.
2. Install erosion controls at the affected inlets and at limits of disturbed slopes.
3. Perform clearing and grubbing activities.
4. Begin cut and fill operations for building foundations.
5. Construct buildings (to end of project).
6. Continue cut and fill operations for paved areas. Install site utilities, stormwater system and pavement structure.
7. Grade grass slopes and immediately stabilize.
8. Establish turf or stone, per plan, on all remaining disturbed areas.
9. Remove erosion controls when it is determined that disturbed areas have been stabilized. (This determination will be made by the Engineer).
10. All post-construction stormwater structures shall be cleaned of construction sediment and any remaining silt fence shall be removed prior to the filing of the "Notice of Termination Form".
11. Perform project cleanup.

Because there are no specific phasing plans included in the final contract, the following reminder is included as a note on C005 – SEDIMENTATION AND EROSION CONTROL PLAN and in NOTICE TO CONTRACTOR – GENERAL PERMIT FOR THE DISCHARGE OF STORMWATER AND DEWATERING WASTEWATERS, "…Whenever there is more than 2 total acres of soil disturbance, the Contractor shall provide a temporary sediment storage basin with a volume equal to 134 cubic yards per acre."

Erosion and Sedimentation Controls

CT DOT will have construction inspection personnel assigned to the project in order to oversee the Contractor's operations to insure compliance with the provisions of the Standard Specifications. Further CT DOT oversight is provided by the District 2 Environmental Coordinator and the Office of Environmental Planning.

The following timelines will be followed for the proposed construction activities:

- If construction activities are complete or have been temporarily halted for more than seven (7) days, stabilization activities will be implemented within three (3) days.
- When final grades are completed in any part of the site, stabilization activities will be implemented within 3 days.
- Disturbed areas that do not establish a vegetative cover within 30 days of seeding shall have erosion control blankets installed. Prior to the erosion control blanket installation, the soil would be prepared with the application of lime, fertilizer, and seed.
- Areas that will be disturbed past the planting season will be covered with a long-term, non-vegetative stabilization method that will provide protection through the winter.
- Stabilization practices will be implemented as quickly as possible in accordance with the Guidelines.
- The Contractor shall stabilize disturbed areas with temporary or permanent measures as quickly as possible after the land is disturbed. Driveway roadbed shall be stabilized immediately upon completion of rough grading with compacted road aggregate. Requirements for soil stabilization are detailed in Form 816 article 1.10.03, 7/32 Best Management Practices.

3.1 Temporary Stabilization Practices:

- Erosion Control Matting: Matting shall be used to stabilize the topsoil on disturbed slopes where a stable, vegetated cover is not established within 30 days, or on temporary slopes steeper than 2:1.
- Silt Fence: Silt fence shall be placed at the toe of all disturbed slopes.
- Anti-Tracking Pads: Construction entrances (gravel anti-tracking pads) shall be constructed at truck access points to off –road route.
- Dust Control: Routine sweeping and application of dust suppression agents, including water and calcium chloride, over exposed subbase shall be completed for dust control.

Stabilization practices shall be implemented no more than three days after completion, as final grades are reached, or if work has been suspended for more than seven days.

Temporary seeding shall be spread over any disturbed areas which will remain inactive for at least 30 days. Areas to remain disturbed through winter shall be protected with non-vegetative stabilization measures. The Contractor must provide an Erosion and Sedimentation Control plan for each winter season during construction operations.

The Contractor may use other controls in the project as necessary if they conform to the 2002

Dewatering Wastewaters

4.1 Dewatering Guidelines

If encountered, dewatering wastewaters will be infiltrated into the ground unless otherwise directed by the Engineer. When dewatering is necessary, pumps used shall not be allowed to discharge directly into a wetland or watercourse. Prior to any dewatering, the Contractor must submit to the Engineer a written proposal for specific methods and devices to be used, and must obtain the Engineer's written approval of such methods and devices, including, but not limited to, the pumping of water into a temporary sedimentation basin, providing surge protection at the inlet or outlet of pumps, floating the intake of a pump, or any other method for minimizing and retaining the suspended solids. If the Engineer determines that a pumping operation is causing turbidity problems, the Contractor shall halt said operation until a means of controlling the turbidity is submitted by the Contractor in writing to the Engineer, approved in writing by the Engineer and implemented by the Contractor. If required, all activities are to be performed in compliance with ConnDOT Form 816.

Post-Construction Stormwater Management

5.1 Post-construction Guidelines

After the project is complete, the Department will perform the following maintenance and restorative measures:

- Litter/debris will be removed from the site regularly.
- Mowing and maintenance of the turf areas and vegetated areas will occur as needed.
- Drainage structure sumps will be inspected regularly and sediment will be removed when sumps are more than half full.
- Riprap outlet protection will be inspected and repaired annually or as needed.

Inspections

7.1 Inspection Guidelines

During construction, all areas disturbed by the construction activity that have not been stabilized, structural control measures, and locations where vehicles enter or exit the site shall be inspected at least once every seven calendar days. These areas shall also be inspected within 24 hours following any storm in which 0.1 inches or greater of rain occurs.

Qualified personnel provided by the DOT District 2 Office shall conduct Inspections.

Items to be inspected: the following items shall be inspected as described below:

Item	Procedure
Silt Fence	Silt fence shall be inspected to insure that the fence line is intact with no breaks or tears. The fence shall be firmly anchored to the ground. Areas where the fence is excessively sagging or where support posts are broken or uprooted shall be noted. Depth of sediment behind the fence shall be noted.
Catch Basin Protection	Protective measures shall be inspected to insure that sediment is not entering the catch basins. Catch basin sumps shall be monitored for sediment deposition. Hay bales shall be inspected to insure they have not clogged.
Vehicle Entrances / Exits	Locations where vehicles enter or exit the site shall be inspected for evidence of off-site tracking.
General	Construction areas and the perimeter of the site shall be inspected for any evidence of debris that may blow or wash off site or that has blown or washed off site. Construction areas shall be inspected for any spills or unsafe storage of materials that could pollute off site waters.

State Project No. 474-0073

Construction of Bus Facility
Windham Region Transit District
Mansfield, CT

"I certify under penalty of law that I have read and understand the terms and conditions of the general permit for the discharge of stormwater associated with construction activity. I understand that as Contractor on the project, I am covered by this general permit, and must comply with the terms and conditions of this permit, including, but not limited to, the requirements of the Stormwater Pollution Control Plan prepared for this project."

GENERAL CONTRACTOR

Signed:_____ Date:_____

Title:_____

Firm:_____ Telephone:_____

Address:_____

_____

_____

SUBCONTRACTOR

Signed:_____ Date:_____

Title:_____

Firm:_____ Telephone:_____

Address:_____

_____

_____

Appendix A - Figures

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Appendix B – Drainage Calculations

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Appendix C – Plan Sheets

Existing Conditions and Boring Locations....SD-002
Boring Logs....SD-003
Boring Logs....SD-004
Boring Logs....SD-005
Sedimentation Control Plan....C-002
Site Plan....C-004
Drainage Plan....C-005
Utility Plan....C-006
Grading Plan....C-007
Civil Details....C-008

FIGURE 1 - AERIAL PHOTO

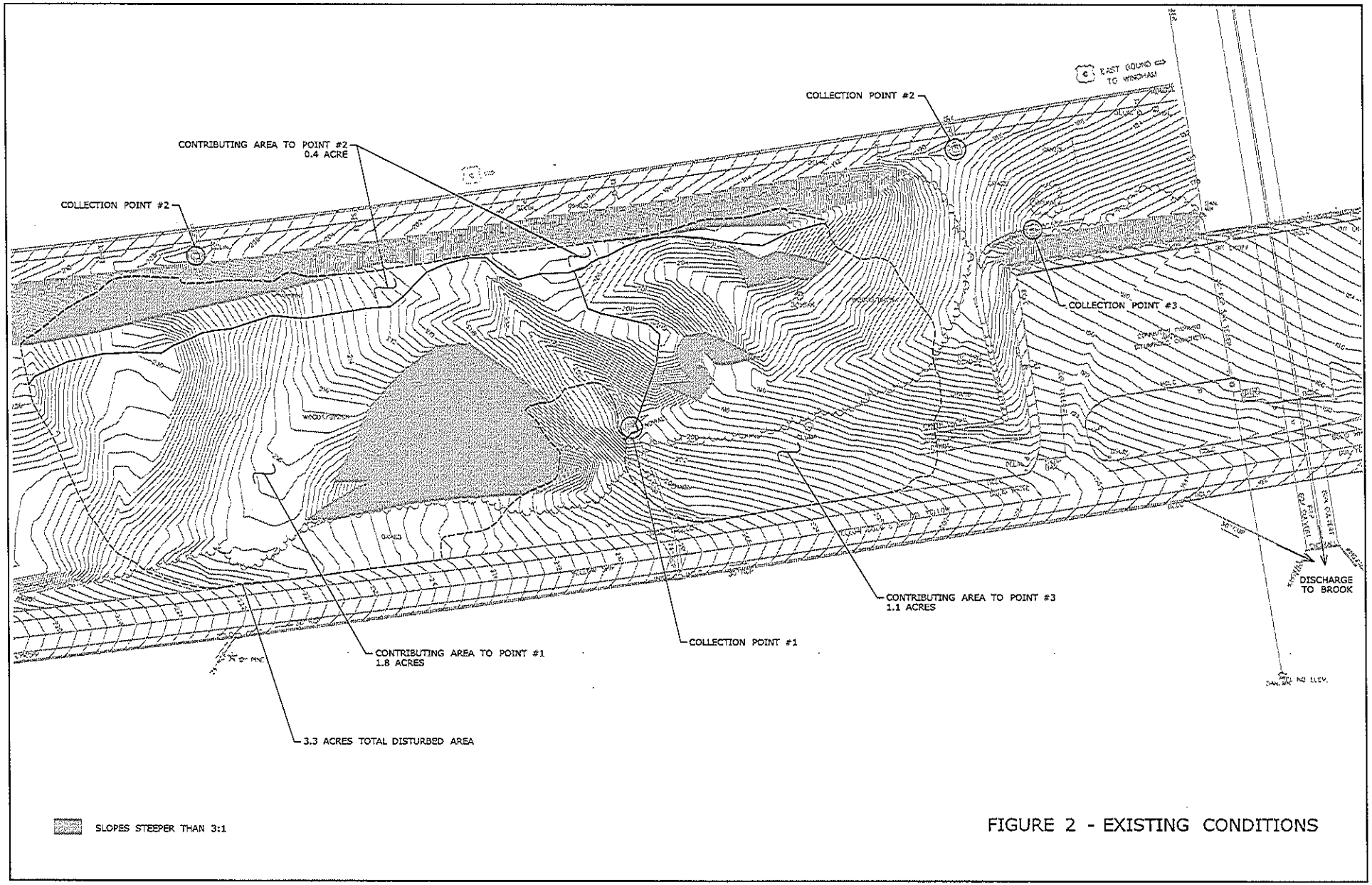

FIGURE 2 - EXISTING CONDITIONS

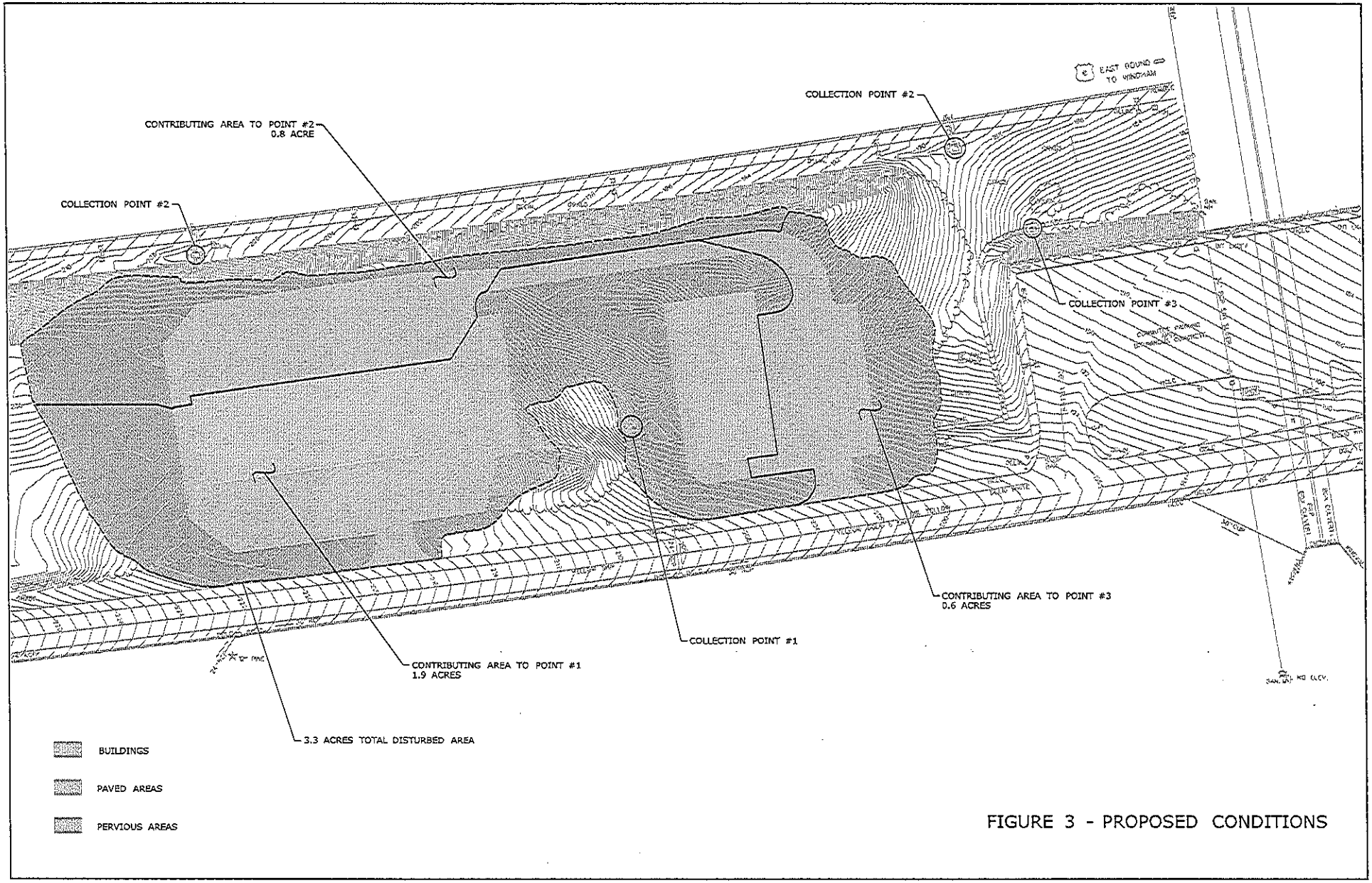

FIGURE 3 - PROPOSED CONDITIONS

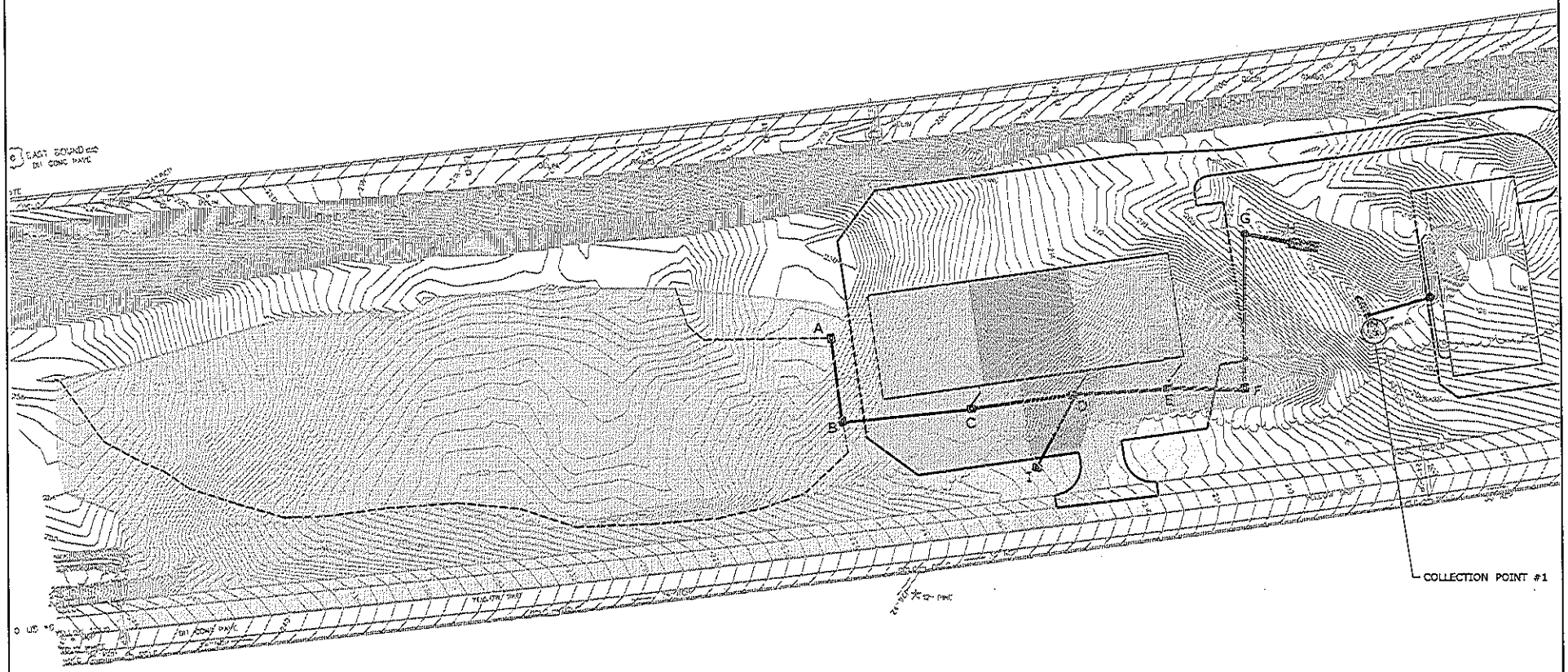

FIGURE 4 - CONTRIBUTING AREAS TO DRAINAGE STRUCTURES

Pavement and Grass Pipe Flow Calculations
10 Year Storm

Project No.: 474-0073
Project Description: Windham Regional Transit District

Date: 11/28/12

Line Segment	Time to Inlet	Time In Pipe	Accum. Time	Contrib. Roof Area	Contrib. Paved Area	Contrib. Turf Area	AI Entering C.B.	Sum of AI in System	Rainfall Intensity	Q in System	Pipe Size	Length of Pipe	Slope	"n"	Average Velocity	Maximum Capacity
	min	min	min	acre	acre	acre			in/hr	cfs	in	ft	ft/ft		ft/sec	cfs
A to B	10.00		10.00	0.00	0.02	0.14	0.04	0.04	4.80	**0.19**	12	52	0.005	0.013	1.34	2.71
		0.65														
B to C	20.00		20.00	0.00	0.01	1.99	0.81	0.84	3.60	**3.04**	15	84	0.005	0.013	3.98	4.91
		0.35														
C to D	10.00		20.35	0.11	0.12	0.00	0.22	1.06	3.57	**3.79**	15	64	0.007	0.013	4.77	5.81
		0.22														
I to D	10.00		10.00	0.00	0.29	0.07	0.28	0.28	4.80	**1.32**	12	52	0.005	0.013	3.25	2.71
		0.27														
D to E	10.00		20.58	0.11	0.06	0.00	0.16	1.50	3.54	**5.32**	18	60	0.005	0.013	4.57	7.99
		0.22														
E to F	10.00		20.79	0.11	0.09	0.00	0.19	1.69	3.52	**5.96**	18	48	0.007	0.013	5.35	9.45
		0.15														
F to G	10.00		20.94	0.00	0.09	0.09	0.10	1.79	3.51	**6.28**	18	100	0.007	0.013	5.40	9.45
		0.31														
G to H	10.00		21.25	0.00	0.00	0.00	0.00	1.79	3.48	**6.22**	18	28	0.007	0.013	5.39	9.45
		0.09														

Pavement and Grass Pipe Flow Calculations
100 Year Storm

Project No.: 474-0073
Project Description: Windham Regional Transit District

Date: 11/28/12

Line Segment	Time to Inlet	Time in Pipe	Accum. Time	Contrib. Roof Area	Contrib. Paved Area	Contrib. Turf Area	AI Entering C.B.	Sum of AI in System	Rainfall Intensity	Q in System	Pipe Size	Length of Pipe	Slope	"n"	Average Velocity	Maximum Capacity
	min	min	min	acre	acre	acre			in/hr	cfs	in	ft	ft/ft		ft/sec	cfs
A to B	10.00		10.00	0.00	0.02	0.14	0.04	0.04	6.50	**0.25**	12	52	0.005	0.013	1.51	2.71
		0.58														
B to C	20.00		20.00	0.00	0.01	1.99	0.81	0.84	5.10	**4.30**	15	84	0.005	0.013	4.23	4.91
		0.33														
C to D	10.00		20.33	0.11	0.12	0.00	0.22	1.06	5.07	**5.38**	15	64	0.007	0.013	5.02	5.81
		0.21														
I to D	10.00		10.00	0.00	0.29	0.07	0.28	0.28	6.50	**1.79**	12	52	0.005	0.013	3.48	2.71
		0.25														
D to E	10.00		20.54	0.11	0.06	0.00	0.16	1.50	5.05	**7.57**	18	60	0.005	0.013	4.79	7.99
		0.21														
E to F	10.00		20.75	0.11	0.09	0.00	0.19	1.69	5.03	**8.50**	18	48	0.007	0.013	5.67	9.45
		0.14														
F to G	10.00		20.89	0.00	0.09	0.09	0.10	1.79	5.01	**8.97**	18	100	0.007	0.013	5.66	9.45
		0.29														
G to H	10.00		21.19	0.00	0.00	0.00	0.00	1.79	4.98	**8.91**	18	28	0.007	0.013	5.67	9.45
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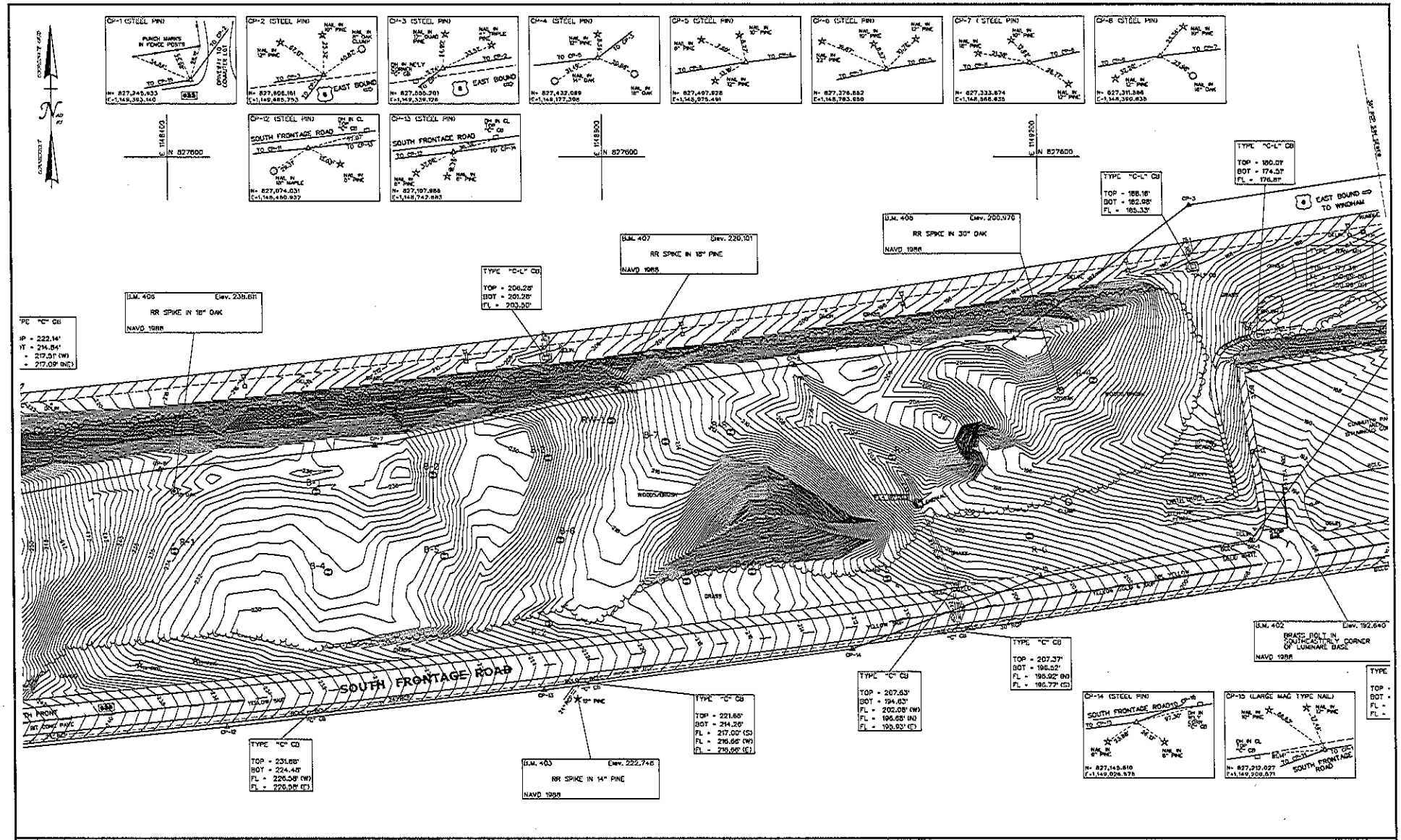

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Plotted Date: 12/5/2012

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CHECKED BY: SLM
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STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\SD-MSH_BRL_474-0073_SD002.dgn

SIGNATURE BLOCK: OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE: WINDHAM REGION TRANSIT DISTRICT

TOWN: MANSFIELD

DRAWING TITLE: EXISTING CONDITIONS & BORING LOCATIONS

PROJECT NO. 474-0073
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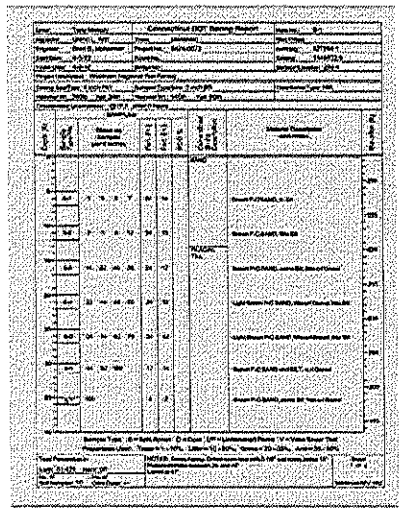

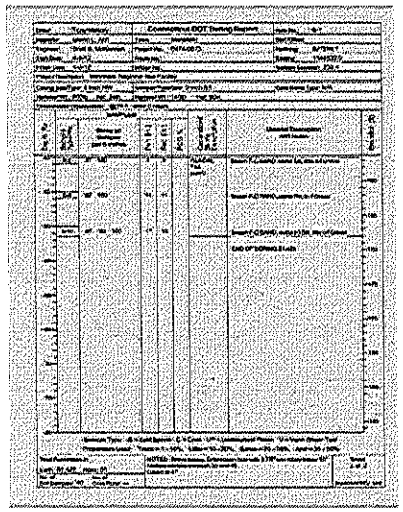

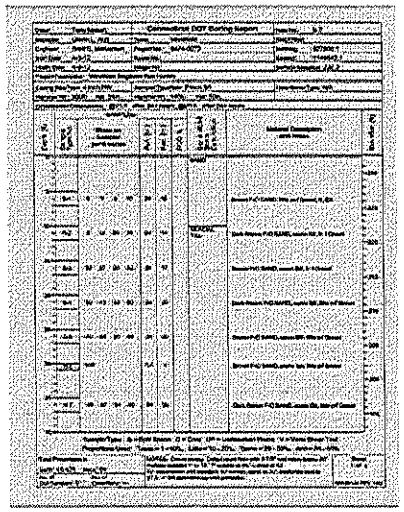

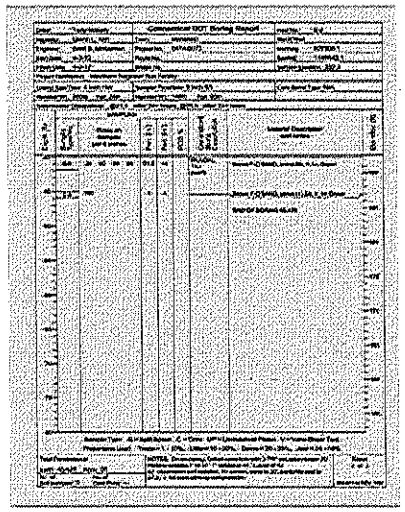

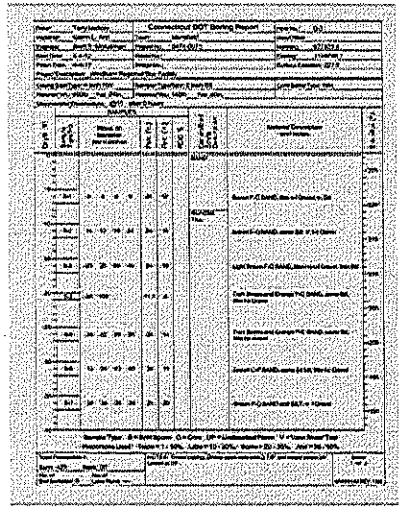

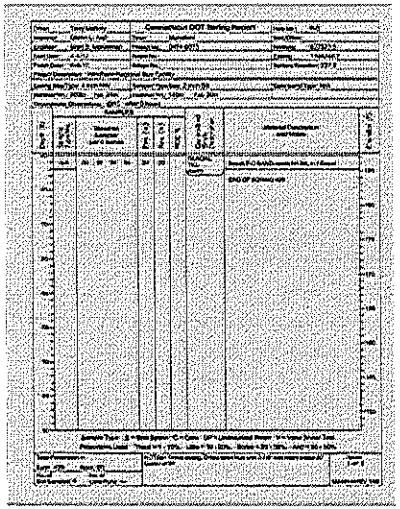

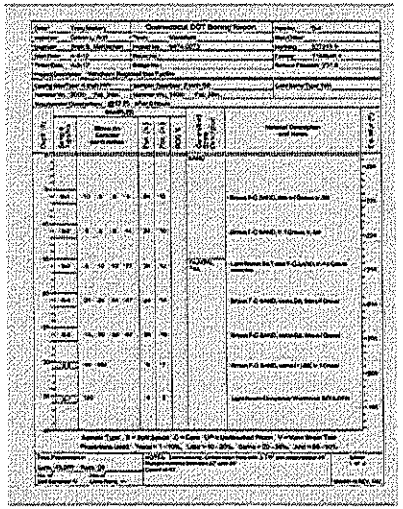

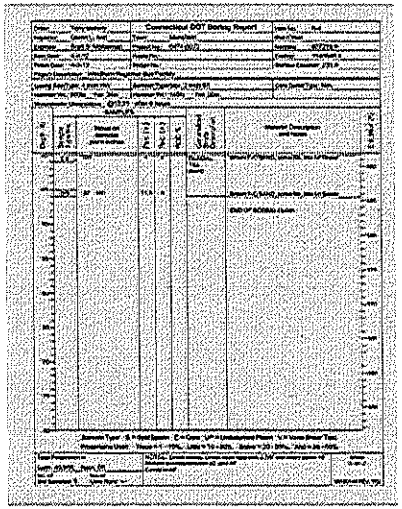

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Plotted Date: 12/5/2012

DESIGNED/DRAFTED:

CHECKED BY:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\PM PRM_BRL_0474_0073_SD003.dgn

SIGNATURE/BUDGET:
OFFICE OF ENGINEERING

APPROVED BY:

PROJECT TITLE:
WINDHAM REGION
TRANSIT DISTRICT

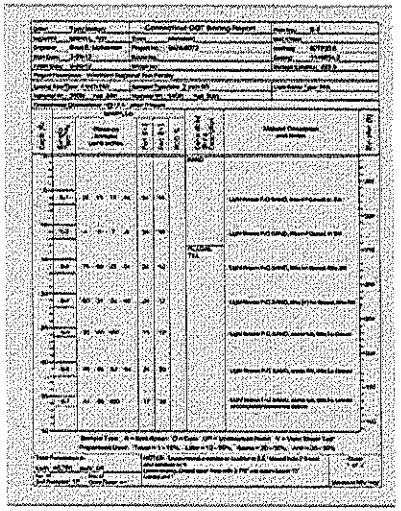
TOWN:
MANSFIELD

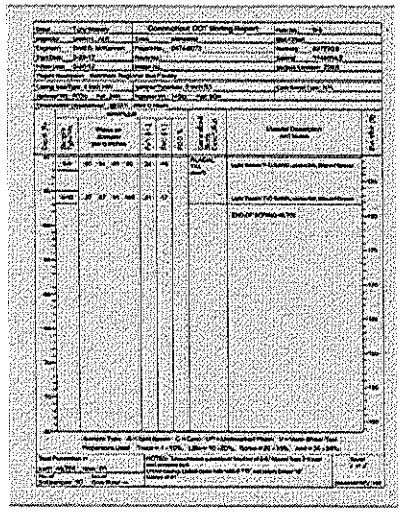
DRAWING TITLE:
BORING LOGS

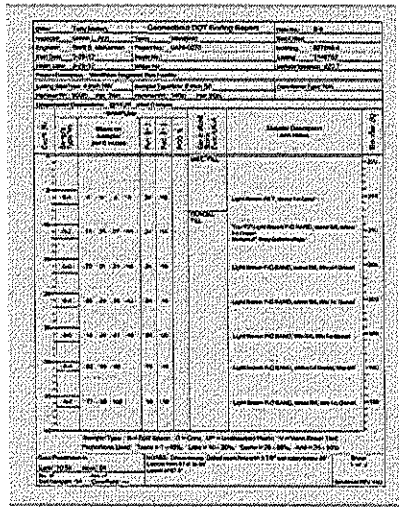
PROJECT NO.
474-0073

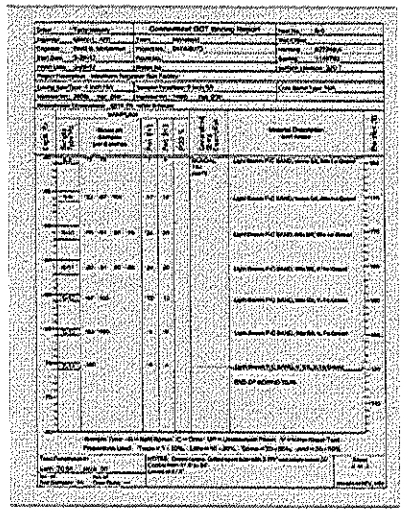
DRAWING NO.
SD-003

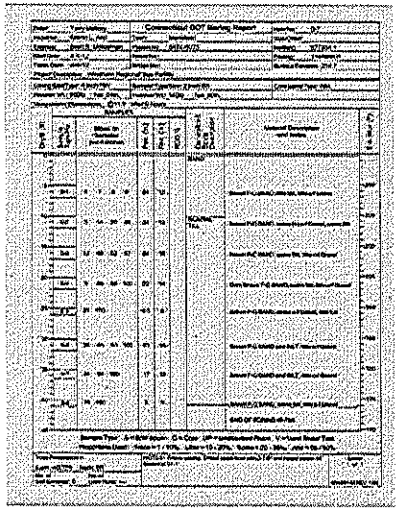
SHEET NO.

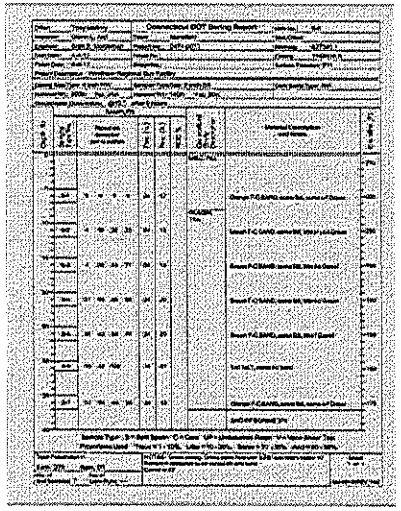


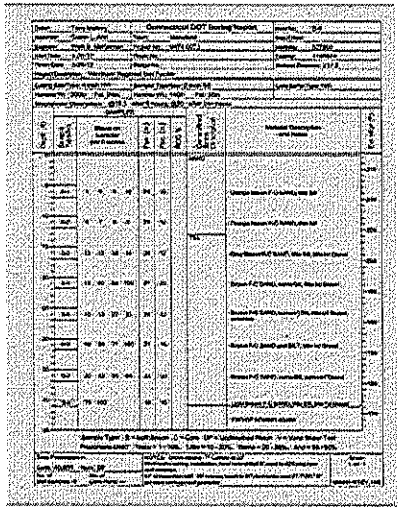


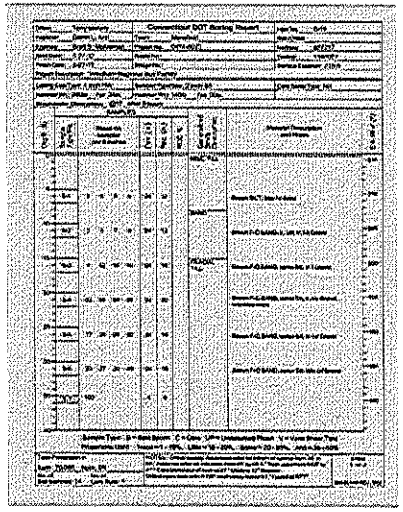












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Plotted Date: 12/6/2012

DESIGNED/DRAFTED

CHECKED BY:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

BUREAU/BUDGU
OFFICE OF ENGINEERING

APPROVED BY:

PROJECT TITLE:
WINDHAM REGION TRANSIT DISTRICT

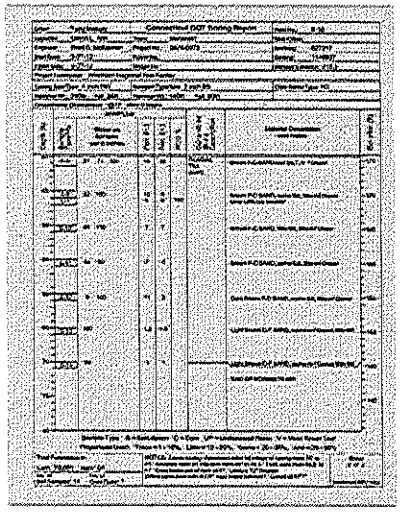
TOWN: MANSFIELD

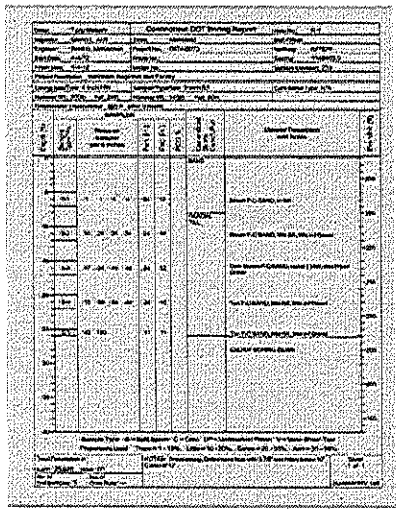
DRAWING TITLE:
BORING LOGS

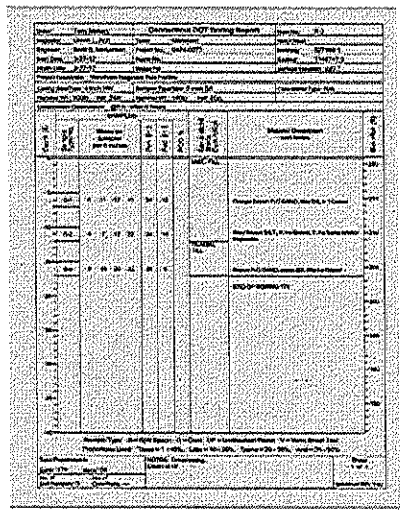
PROJECT NO. 474-0073

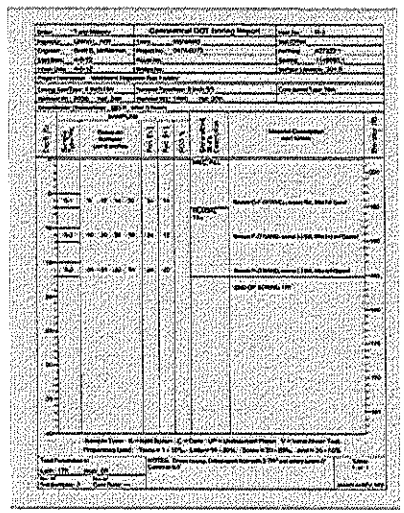
DRAWING NO. SD-004

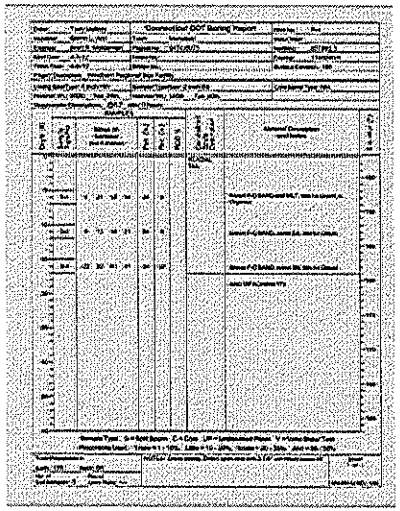
SHEET NO.

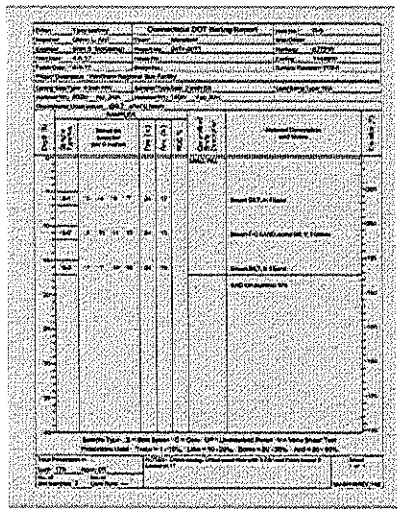


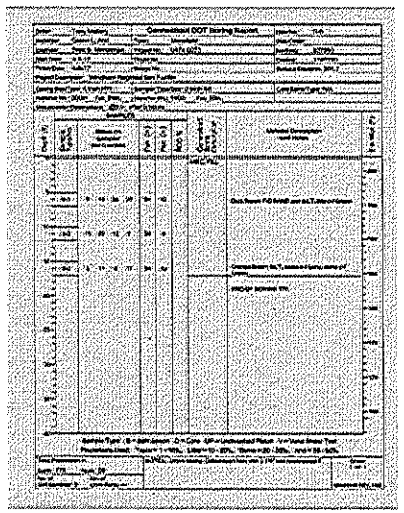


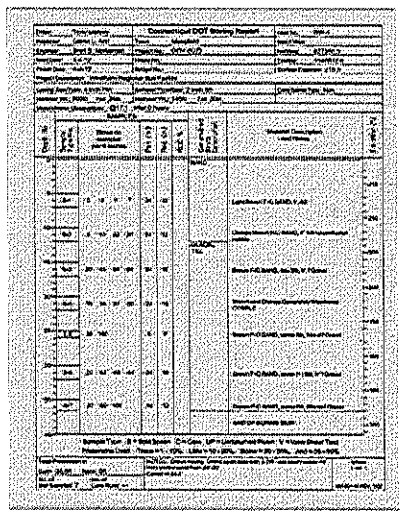












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Marked Date: 12/30/2012

DESIGNED BY:

CHECKED BY:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\MD MSN, BAL 0474 0073_SD005.dwg

SIGNATURE BLOCK:
OFFICE OF ENGINEERING

APPROVED BY:

PROJECT TITLE:
WINDHAM REGION
TRANSIT DISTRICT

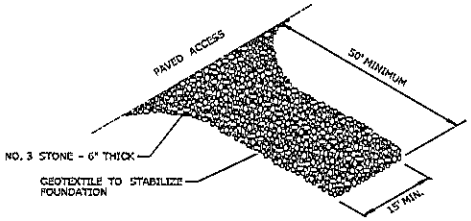
TOWN:
MANSFIELD

DRAWING TITLE:
BORING LOGS

PROJECT NO.
474-0073

DRAWING NO.
SD-005

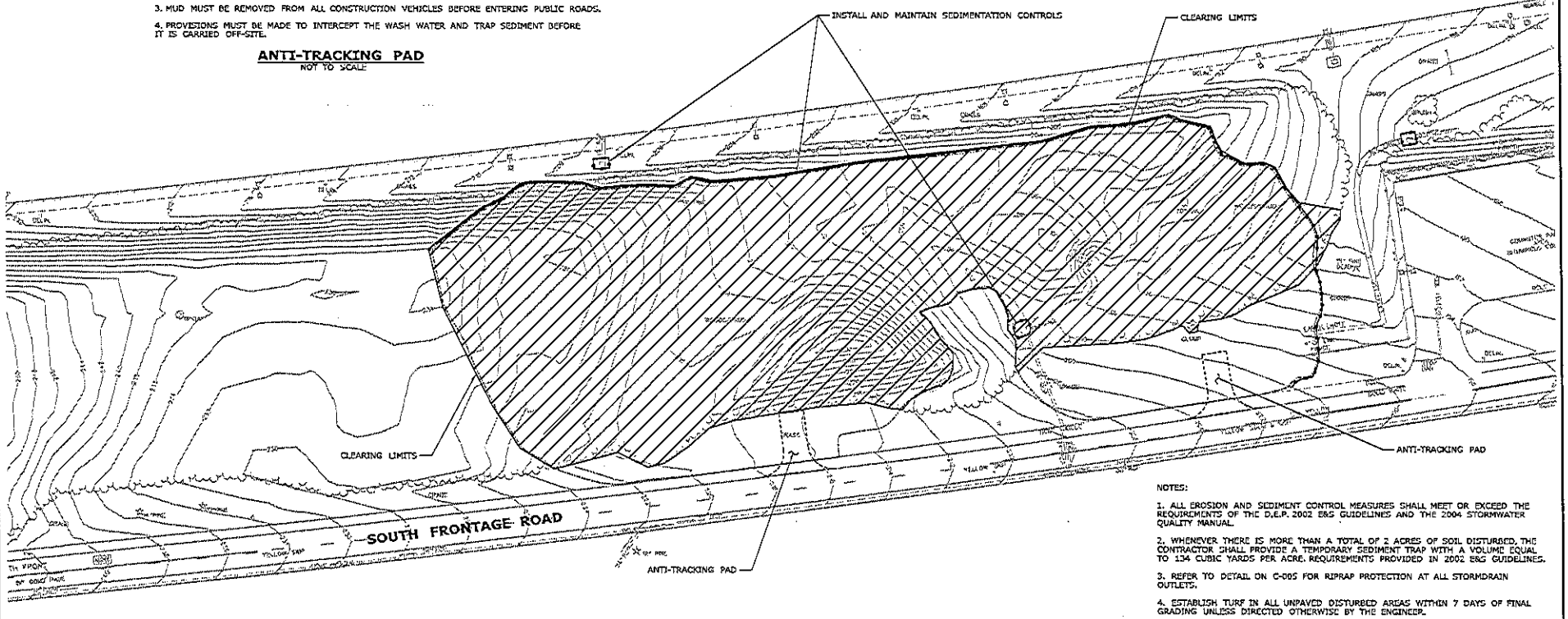
SHEET NO.



NOTES:

1. LOCATION TO BE APPROVED BY ENGINEER.
2. ADJACENT PAVED ACCESS TO BE CLEANED ONCE A DAY.
3. MUD MUST BE REMOVED FROM ALL CONSTRUCTION VEHICLES BEFORE ENTERING PUBLIC ROADS.
4. PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP SEDIMENT BEFORE IT IS CARRIED OFF-SITE.

ANTI-TRACKING PAD
NOT TO SCALE



NOTES:

1. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL MEET OR EXCEED THE REQUIREMENTS OF THE D.E.P. 2002 E&S GUIDELINES AND THE 2004 STORMWATER QUALITY MANUAL.

2. WHENEVER THERE IS MORE THAN A TOTAL OF 2 ACRES OF SOIL DISTURBED, THE CONTRACTOR SHALL PROVIDE A TEMPORARY SEDIMENT TRAP WITH A VOLUME EQUAL TO 134 CUBIC YARDS PER ACRE. REQUIREMENTS PROVIDED IN 2002 E&S GUIDELINES.

3. REFER TO DETAIL ON C-005 FOR RIPRAP PROTECTION AT ALL STORMDRAIN OUTLETS.

4. ESTABLISH TURF IN ALL UNPAVED DISTURBED AREAS WITHIN 7 DAYS OF FINAL GRADING UNLESS DIRECTED OTHERWISE BY THE ENGINEER.

5. AT THE COMPLETION OF THE PROJECT AND AS NEEDED, REMOVE ALL ACCUMULATED SEDIMENT FROM DRAINAGE STRUCTURE SUMPS AND STORMWATER BASINS.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 12/4/2012

DESIGNED/DRAFTED: LM
CHECKED BY: SLM
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

OFFICE OF ENGINEERING

PROJECT TITLE: WINDHAM REGION TRANSIT DISTRICT

TOWN: MANSFIELD

DRAWING TITLE: SEDIMENTATION CONTROL PLAN

PROJECT NO. 474-0073
DRAWING NO. C-002
SHEET NO.

NOTES:

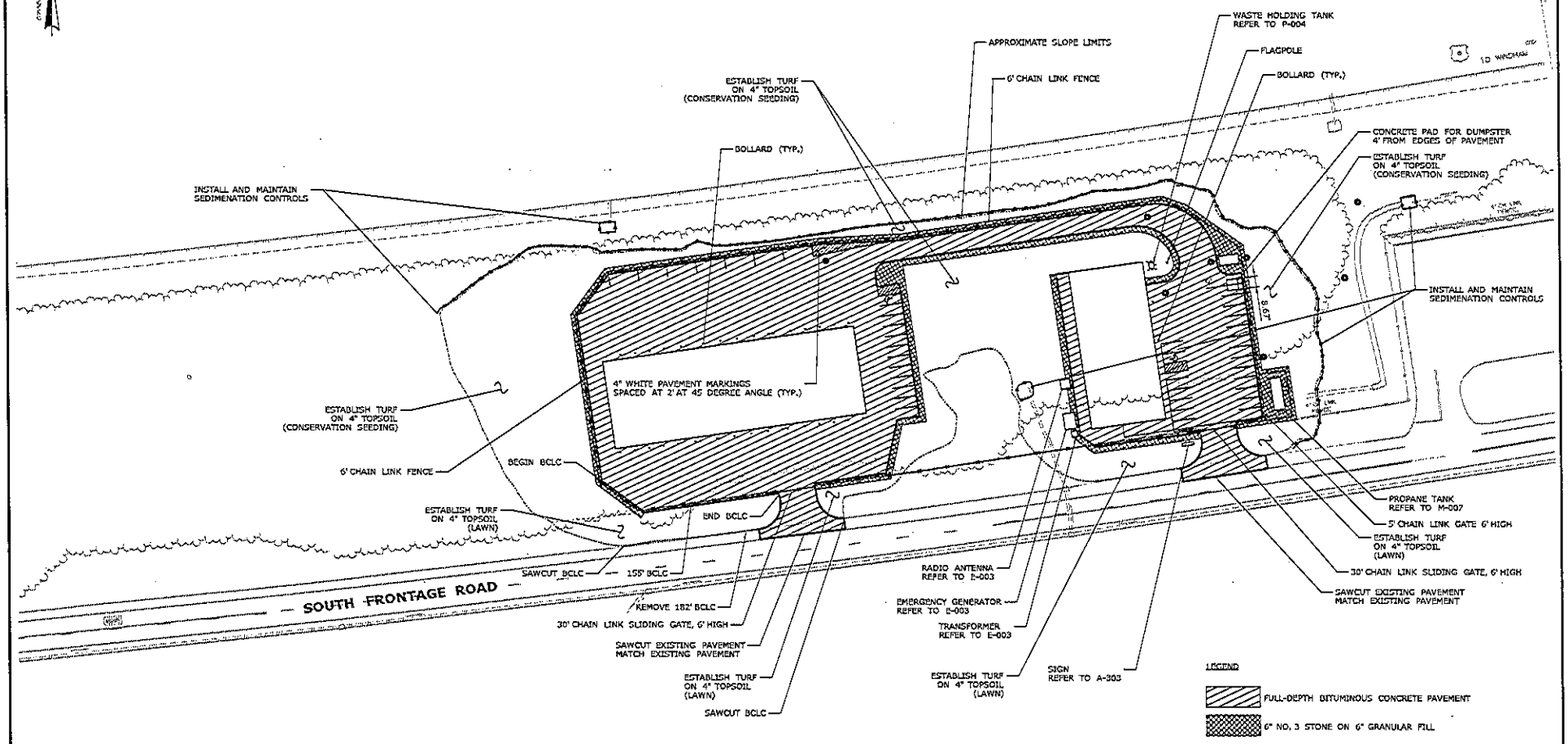
1. CONTACT "CALL BEFORE YOU DIG" AT 1-800-922-4455 AT LEAST 2 FULL BUSINESS DAYS BEFORE BEGINNING ANY EXCAVATION.

2. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING UTILITIES AND SURVEY MARKERS WITHIN PROJECT LIMITS. REFER TO FORM 816 SECTION 1.07.09.

3. MAINTAIN TWO-WAY TRAFFIC ON SOUTH FRONTAGE ROAD AT ALL TIMES.

4. ESTABLISH TURF IN ALL UNPAVED DISTURBED AREAS.

5. NINETY DEGREE SPACES ARE 18.5' X 8.5'. PARALLEL SPACES ARE 9' X 24. REFER TO C-008 FOR PARKING STALL DETAILS.



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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THE INFORMATION INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE PLANS, IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

DESIGNED/DRAFTED: LM
CHECKED BY: SLM
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

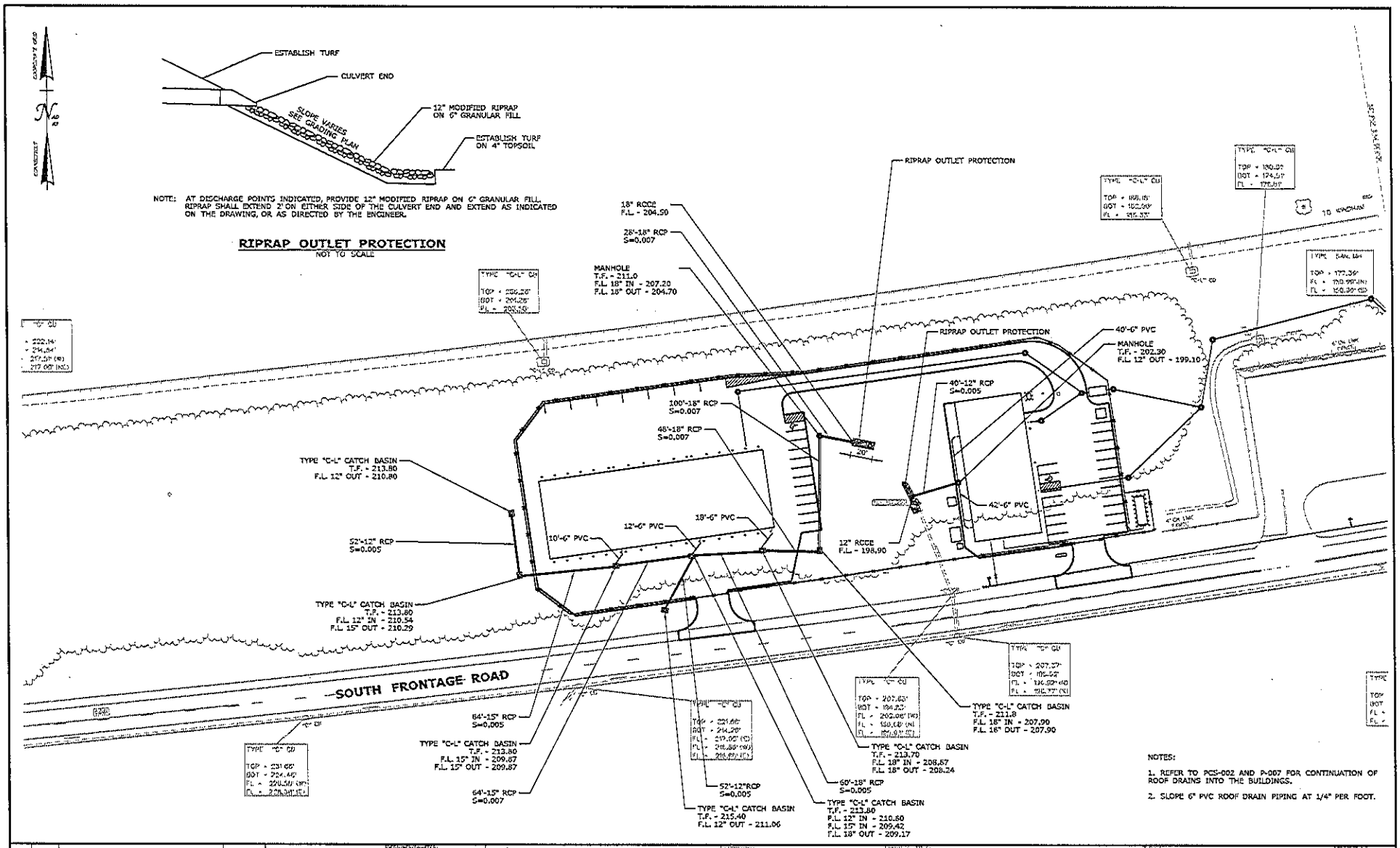
ADMINISTERING BUREAU: OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE: WINDHAM REGION TRANSIT DISTRICT

TOWN: MANSFIELD

DRAWING TITLE: SITE PLAN

PROJECT NO. 474-0073
DRAWING NO. C-004
SHEET NO.



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DESIGNED/DRAFTED: LM
CHECKED BY: SLM
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

OFFICE OF ENGINEERING

PROJECT TITLE: WINDHAM REGION TRANSIT DISTRICT

TOWN: MANSFIELD

DRAWING TITLE: DRAINAGE PLAN

PROJECT NO. 474-0073

DRAWING NO. C-005

SHEET NO.

NOTES:

1. REFER TO PCS-001, P-005 AND P-006 FOR CONTINUATION OF SANITARY PIPING INTO THE BUILDING.
2. REFER TO P-003 FOR CONTINUATION OF WATERLINE INTO THE BUILDING.
3. REFER TO M-003 AND M-007 FOR PROPANE TANK AND PIPING INFORMATION.

LEGEND

UTILITY TRENCH REPAIR REFER TO C-008

DROP MANHOLE OVER 10' DEEP (SANITARY SEWER)
TF - 199.00
F.L. 6" PVC IN - 195.62
F.L. 6" PVC OUT - 185.32

OIL / WATER SEPARATOR
1000 GALLONS
F.L. 6" PVC IN - 195.95
F.L. 6" PVC OUT - 195.70

MANHOLE (SANITARY SEWER)
TF - 201.0
F.L. 6" PVC IN - 196.75
F.L. 6" PVC IN - 197.08
F.L. 6" PVC OUT - 196.08

60' - 6" PVC (SAN. SEWER)
S= 1/4" PER FT

MANHOLE (SANITARY SEWER)
TF - 202.9
F.L. 6" PVC IN - 198.43
F.L. 6" PVC OUT - 198.33

MANHOLE (SANITARY) OVER 10' DEEP W/ 4' SUMP
TF - 212.9
F.L. 6" PVC IN - 200.25
F.L. 6" PVC OUT - 203.89

262' - 6" PVC (SAN. SEWER)
S= 1/4" PER FT

42' - 6" PVC (SAN. SEWER)
S= ¼" PER FT

40' - 6" PVC (SAN. SEWER)
S= ¼" PER FT

16'@ 6" PVC (SAN. SEWER)
S= ⅛" PER FT

38' - 2" COPPER
SERVICE CONNECTION

CURB STOP AND BOX

82' - 6" PVC (SAN. SEWER)
S=1/2" PER FT

MANHOLE (SANITARY SEWER)
TF - 166.2
F.L. 8" PVC IN - 179.13
F.L. 8" PVC OUT - 179.03

148' - 8" PVC (SAN. SEWER)
S=1/2" PER FT

MANHOLE (SANITARY SEWER)
TF - 179.00
F.L. 8" PVC IN - 172.86
F.L. 8" PVC OUT - 172.76

36' - 8" PVC (SAN. SEWER)
S=1/2" PER FT

F.L. 8" PVC IN - 171.26

64' - 8" PVC (SAN. SEWER)
S=1/2" PER FT

MANHOLE (SANITARY SEWER)
TF - 186.6
F.L. 4" PVC IN - 181.90
F.L. 6" PVC IN - 182.90
F.L. 8" PVC OUT - 181.80

90' - 4" PVC (SAN. SEWER)
S=¼" PER FT

4' - 6" PVC (SAN. SEWER)
S=1/4" PER FT

6' - 6" PVC (SAN. SEWER)
S=1/4" PER FT

DROP MANHOLE OVER 10' DEEP (SANITARY SEWER)
TF - 199.0
F.L. 4" PVC IN - 195.34'
F.L. 4" PVC OUT - 183.78

MANHOLE (SANITARY) W/ 4' SUMP
TF - 201.9
F.L. 6" PVC IN - 197.42
F.L. 6" PVC OUT - 197.17

80' - 4" PVC (SAN. SEWER)
S=¼" PER FT

752' - 8" WATERLINE

FIRE HYDRANT ASSEMBLY

GATE VALVE AND ENDCAP

TAPPING SLEEVE

GATE VALVE AND BOX

FIRE HYDRANT ASSEMBLY

SOUTH FRONTAGE ROAD

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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DESIGNED/DRAWN BY: LM
CHECKED BY: SLM
SCALE IN FEET 0 40 80
SCALE 1"=40'

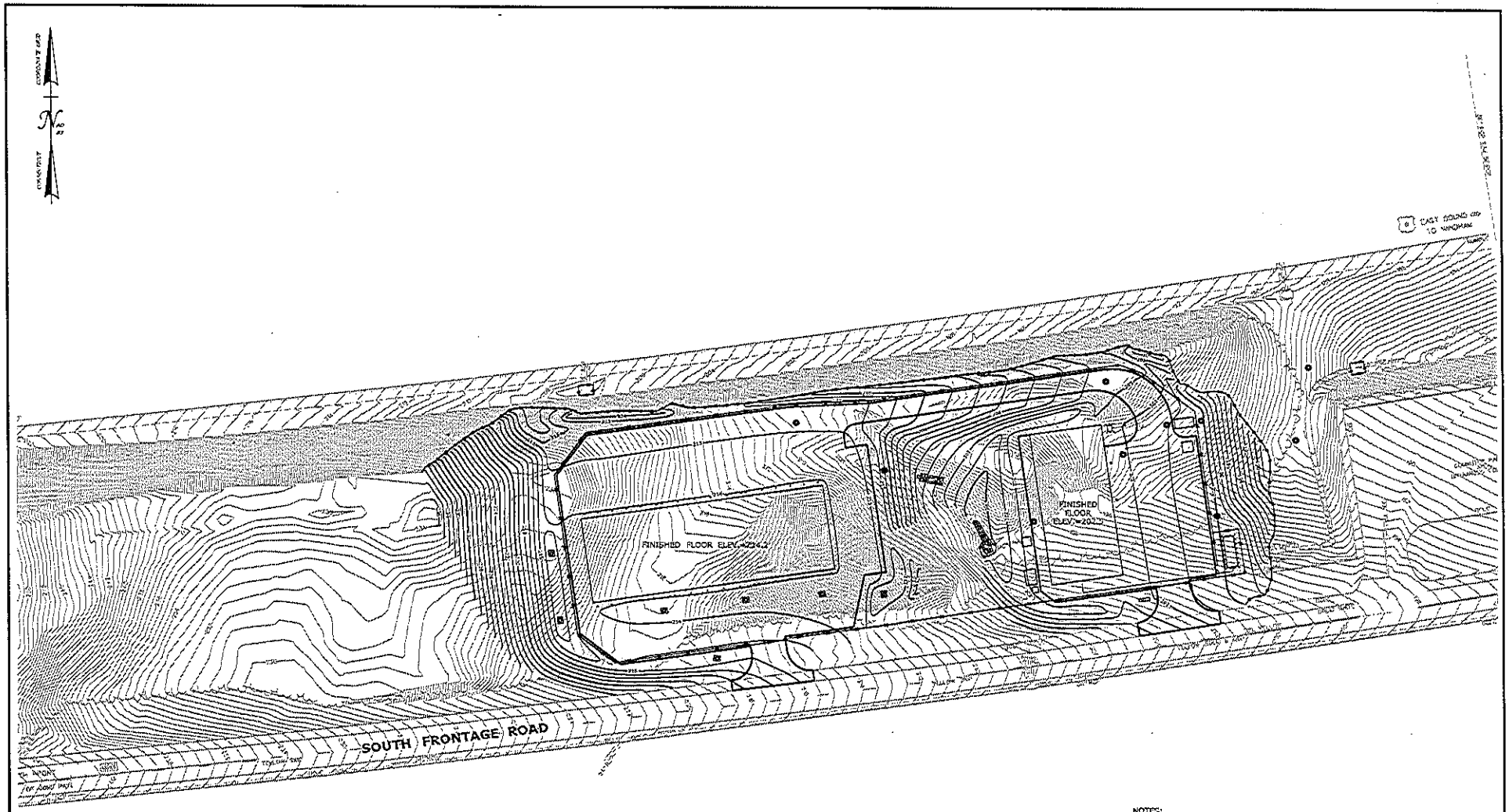
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

SIGNATURE BLOCK
OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE
WINDHAM REGION TRANSIT DISTRICT

TOWN: MANSFIELD
DRAWING TITLE: UTILITY PLAN

PROJECT NO. 474-0073
DRAWING NO. C-006
SHEET NO.



NOTES:

1. ALL EROSION AND SEDIMENTATION MEASURES SHALL MEET OR EXCEED THE REQUIREMENTS OF THE D.E.P. 2002 E & S CONTROL GUIDELINES AND THE 2004 STORMWATER QUALITY MANUAL.

2. REFER TO C-002 FOR ADDITIONAL NOTES.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 12/6/2012

DESIGNED BY: LM
CHECKED BY: SLM
SCALE IN FEET
0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\PD_MSH_GRD_0474_0073_C007.dgn

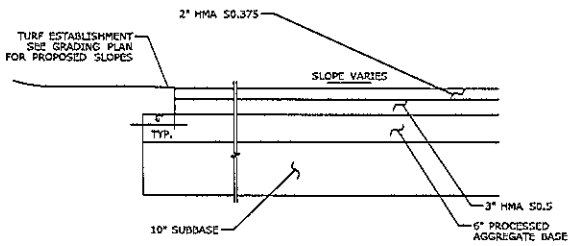
SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE: WINDHAM REGION TRANSIT DISTRICT

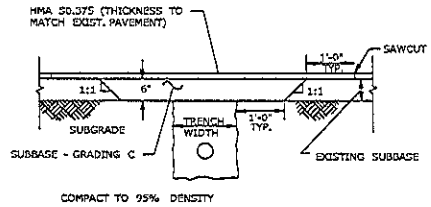
TOWN: MANSFIELD

DRAWING TITLE: GRADING PLAN

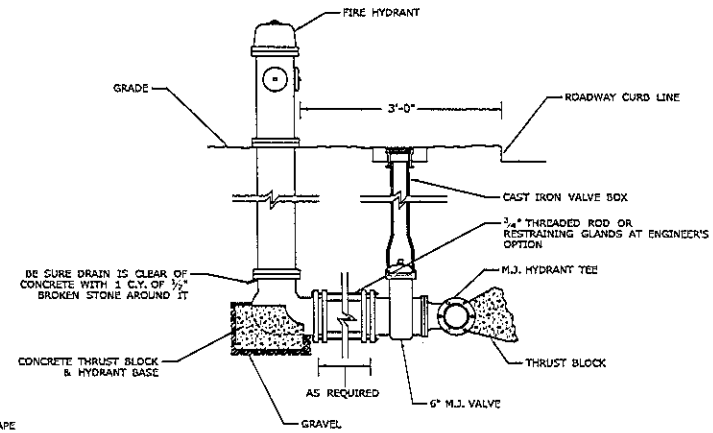
PROJECT NO. 474-0073
DRAWING NO. C-007
SHEET NO.



BITUMINOUS CONCRETE PAVEMENT
NOT TO SCALE



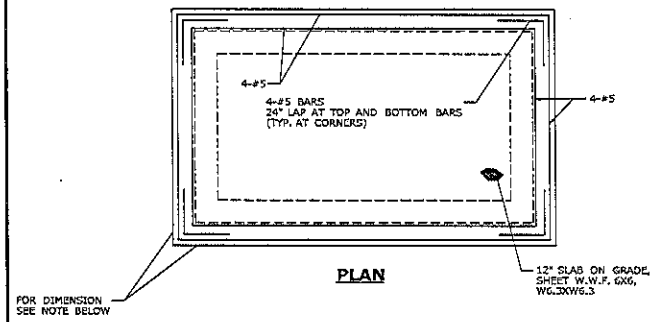
PAVEMENT REPAIR TRENCH DETAIL
NOT TO SCALE



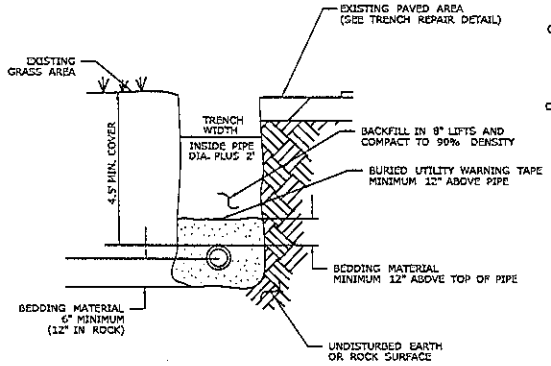
NOTES:

1. HYDRANT SIZE (DEPTH OF BURY) TO BE DETERMINED BY DEPTH OF WATERMAIN. DEPTHS MAY VARY 4 1/2' TO 6' AS REQUIRED.
2. HYDRANT TO BE PAINTED AFTER TESTING. BARREL TO BE OSHA SAFETY YELLOW. BONNET TO BE REFLECTIVE WHITE.

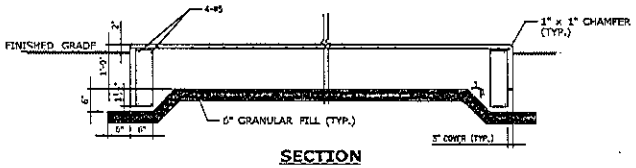
FIRE HYDRANT ASSEMBLY
NOT TO SCALE



PLAN



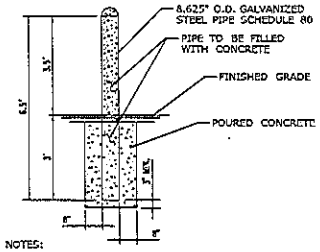
TYPICAL UTILITY TRENCH SECTION
NOT TO SCALE



SECTION

NOTE:
1. REFER TO C-004 FOR DUMPSTER PAD DIMENSIONS AND LOCATION.
2. DIMENSIONS FOR GENERATOR PAD SHALL FOLLOW MANUFACTURER'S RECOMMENDATIONS. REFER TO E-004.

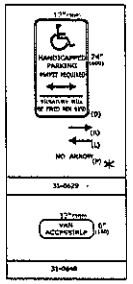
CONCRETE PAD
NOT TO SCALE



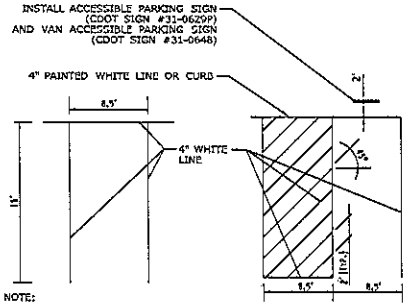
NOTES:

1. BOLLARDS SHALL BE COVERED WITH 3/4" YELLOW POLYETHYLENE COVER.
2. TRIM BOLLARD COVER TO FIT.

BOLLARD
NOT TO SCALE



PARKING SIGNS
NOT TO SCALE



NOTE:

1. WHERE SIDE OR END OF PARKING STALL IS BORDERED BY CURBING, PAINTED LINES ARE NOT REQUIRED.
2. WHERE PARKING STALL IS IN FRONT OF THE BUILDING, INSTALL ACCESSIBLE PARKING SIGN AND VAN ACCESSIBLE PARKING SIGN ON THE BUILDING.

PAINTING FOR PARKING STALLS
NOT TO SCALE

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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DESIGNED/DRAWN BY: LM
CHECKED BY: SLM
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

SIGNATURE BLOCKS
OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE
WINDHAM REGION TRANSIT DISTRICT

TOWN: MANSFIELD
DRAWING TITLE: CIVIL DETAILS

PROJECT NO. 474-0073
DRAWING NO. C-008
SHEET NO.

MASTROBATTISTO, INC.
Contractors

Submittal Narrative

Project: Windham Transit Facility CTDOT #474-073

Contractor: Mastrobattisto, Inc.

Item #: 0219001

Item Description: Storm Water Pollution Control

Gentlemen,

Mastrobattisto, Inc. submits a storm water pollution control plan as follows:

- The total site area of disturbance is approximately 146,500 square feet. The calculation of the total volume of sedimentation basins needed for this area of disturbance is based off of the area of disturbance being 3.36 acres. At 134 cubic yards of volume per acre for the sedimentation basins, a total volume of 450.24 cubic yards is needed.
- Clearing operations will begin at the eastern clearing limit of the project and move towards the western clearing limit
- Mastrobattisto, Inc. plans to sequence the grubbing of the property in the same sequence, working from the eastern limit towards the western limit
- Before the beginning of the grubbing operation, Mastrobattisto, Inc. will construct a temporary sedimentation basin at the eastern clearing limit (As shown on Drawing No. 01) which will be approximately 50' wide by 50' long and 5' in depth. This basin will be an excavation having a capacity of 462.96 cubic yards and utilize a standpipe to allow sediment to settle out of the water

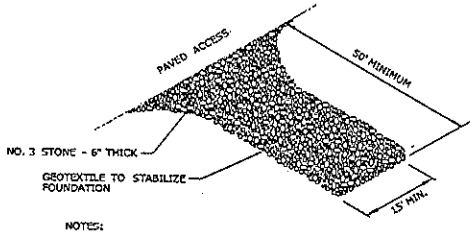
145 Burlington Avenue ~ Bristol, CT 06010-4201 ~ Tel: (860)584-2180 ~ Fax. (860)589-6916
Affirmative Action/Equal Opportunity Employer

before it is allowed to drain to the storm drainage system (Drainage Structure #2).

- As Mastrobattisto, Inc. continues the grubbing operation towards the western clearing limit, a second sedimentation basin will be constructed to the north of the existing drainage structure (Drainage Structure #2). This basin will be a 35' X 35' X 5' deep excavation having a volume capacity 226.85 cubic yards. This basin will utilize a standpipe to allow sediment to settle out of the water before it is allowed to drain to the storm drainage system.
- Mastrobattisto, Inc. will provide slope protection for any excavated slope by Mastrobattisto, Inc. that will remain unstabilized for a period longer than 30 days until the conservation seeding for slopes is installed by others.

Mastrobattisto, Inc.
Supplier

Matt Germano, Project Manager



NOTES:

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2. ADJACENT PAVED ACCESS TO BE CLEANED ONCE A DAY.
3. MUD MUST BE REMOVED FROM ALL CONSTRUCTION VEHICLES BEFORE ENTERING PUBLIC ROADS.
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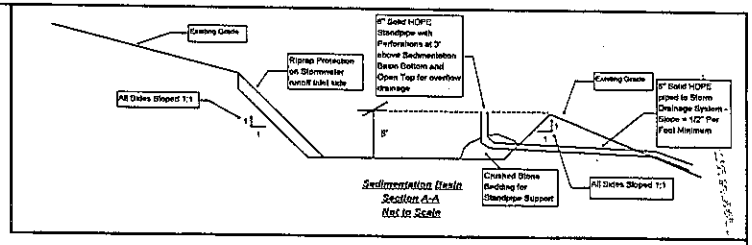
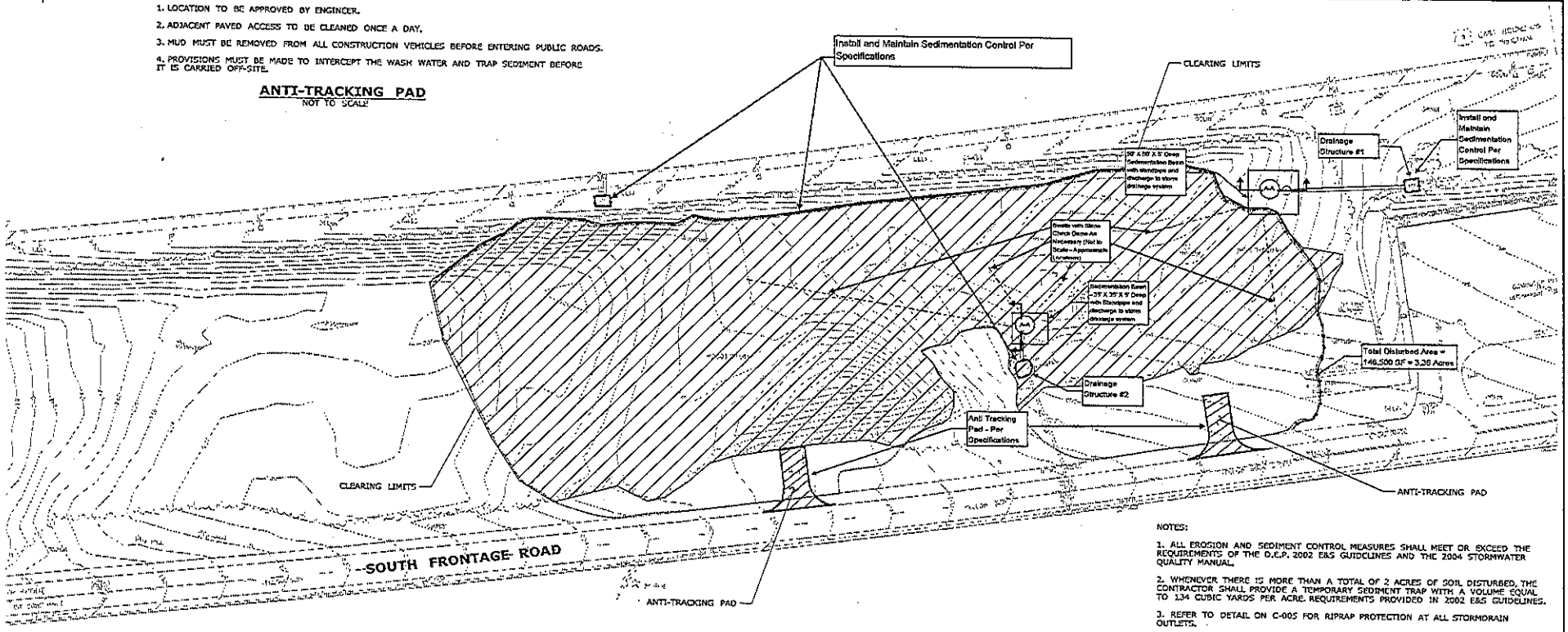
ANTI-TRACKING PAD
NOT TO SCALE



Sedimentation Basin
Section A-A
Not to Scale



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3. REFER TO DETAIL ON C-005 FOR RIPRAP PROTECTION AT ALL STORMDRAIN OUTLETS.

4. ESTABLISH TURF IN ALL UNPAVED DISTURBED AREAS WITHIN 7 DAYS OF FINAL GRADING UNLESS DIRECTED OTHERWISE BY THE ENGINEER.

5. AT THE COMPLETION OF THE PROJECT AND AS NEEDED, REMOVE ALL ACCUMULATED SEDIMENT FROM DRAINAGE STRUCTURE SUMPS AND STORMWATER BASINS.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Revised Dated: 12/17/2012

Drawn By: MSG

SCALE IN FEET
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SCALE 1"=40'

Mastrobattisto, Inc.
Contractors

PROJECT TITLE
WINDHAM REGION TRANSIT DISTRICT

TOWN
MANSFIELD

DRAWING TITLE
Stormwater Pollution Control Plan

No. 1