

**MODIFICATIONS TO
CONTRACT EROSION PREVENTION
AND
SEDIMENT CONTROL (EPSC) PLAN**

FOR

FAIRFIELD BRO 1448 (41)

(Elm Brook Rd, TH#47, Bridge 46, Fairfield, VT)

FOR

A.L. St. Onge Contractor, Inc.

PO BOX 65
MONTGOMERY, VT 05470

January, 2015



RES

RUGGLES ENGINEERING SERVICES INC.

Ruggles Engineering Services, Inc., 5480 Memorial Drive, St. Johnsbury, VT 05819

www.rugglesengineeringservices.com

EPSC NARRATIVE AMENDED

Section 1.1 through 1.4 are available as part of the Contract Plans (Sheet 61 of 69, dated 8/18/2014). The following amendments are to be considered with the Project Narrative. The project narrative is in the appendix.

1.1 Project Description

Add. – 1.1.1: The Project will also include a field office site, waste and borrow. The field office site and waste are will be on the Magnan Farm property which was previously used in 2014 for the Fairfield BRO 1448(38) Project. Site staging will be within the Highway Right of Way since the road will be closed for the majority of the work. These areas are shown on the revised erosion control plans. Total disturbance for the site will include approximately 0.3 acres.

Borrow for the project will be from an approved pit with an active 3-9003 MSGP for industrial activity.

1.2 Site inventory (Waste Area)

1.2.1 Topography of waste area:

Add – 1.2.1.1: The waste area includes slopes approximately 3 to 8% dumping area and adjacent slopes (15% to 25%). The site is approximately 250' uphill of an existing drainage swale which leads into Black Creek.

1.2.3 Vegetation:

Add – 1.2.2.1: The wasting site is existing exposed sands and gravels along with adjacent field and brush areas.

1.2.4 Soils:

Add - 1.2.4.1: Waste Area. The USDA NRCS Soil Map indicates that the soils at the farm waste area are Hinesburg loamy fine sand however the waste site looks to be significantly disturbed due to farm activity. These soils are not being disturbed other than fill being places over the top of the site. Erosion protection and sediment control concerns will come from the soils being removed from the project site.

1.5 Sequence and Staging

1.5.1 Construction Sequence and Implementation of EPSC Measures.

The construction sequence will be coordinated with the CPM schedule. A copy of the current CPM schedule is included in the appendix. Additional details of the schedule are anticipated prior to construction.

1.5.1.1. Initial EPSC Measures

Initial EPSC measures will be installed as shown on sheet EPSC1 when the EPSC plan has been approved by the Agency. Barrier Fence and PDF Fence will be installed to identify the limits of disturbance. Site activity will occur on a stabilized gravel roadway. A Temporary Stabilized Construction Entrance will only be applicable for staging area adjacent to VT Highway 36. Any sediment produced from tracking on the gravel roadway will be diverted to areas of silt fence prior to entering the adjacent field or wetlands. Silt Fence with wire will be installed in areas within 100' of the stream and wetlands. Silt Fence will also be installed at the toe of the filling at the waste area site.

1.5.1.2. Bridge Removal

The existing bridge and abutments will be removed. Abutment removal will be as shown on the schedule. Excavation below the ordinary high water mark will be concurrent with Channel Excavation.

1.5.1.3. Channel Excavation

Prior to beginning channel excavation, a filter curtain and sand bags will be used to segregate the work area from stream flow. The excavation area will not be dewatered during placement of the filter fabric and riprap. The work area will be immediately stabilized and each slope will be completed during one day.

1.5.1.4. Bridge Abutment Construction.

Pile foundations will be installed prior to the removal of the old bridge and will allow for daily closures of the road and will limit disturbance. Abutment construction will occur when the water level is lower than ordinary high water where no groundwater will be anticipated.

1.5.1.5. Abutment backfill.

Once abutment construction is complete, the remaining riprap will be installed. Grubbing material will be installed after the precast deck is installed. Disturbance will occur during a two day period. Grubbing cover will also include seed, mulch and erosion matting for final stabilization.

The abutment will be backfilled with final stabilization riprap. No additional erosion control measures will be proposed.

1.5.1.6. Final Stabilization

The work area will be restored to final stabilization after the bridge deck is set and the approaches are reconstructed. Since the slopes are only 10-15 feet, sheet flow will be minimal; all sediment control measures will be removed as shown on EPSC2. The areas will be mulched or stabilized with erosion matting. Channelized flow is not anticipated.

1.5.2 Off-site Activities.

Off-site Activities forms are included in the appendix for the waste area and office trailer site.

1.5.3 Updates

When updates are necessary A.L. St. Onge will contact Ruggles Engineering Services to submit a revised narrative.

1.6 Contact Information

1.6.1 On-Site Plan Coordinator:

Carl Gleason
A.L. St. Onge
PO Box 65
Montgomery, VT 05470
(802) 782-3978
gleason.cardl@gmail.com

Carl has over 30 years' experience in highway construction. Carl was previously a project resident engineer for VTrans highway projects. Carl is familiar with the EPSC contractor requirements, installation and maintenance methods. Carl will be onsite to implement the phases of EPSC and to coordinate the monitoring and inspections.

Carl will have the authority to halt construction and he is capable of ensuring the project will be constructed in accordance with the Plan and the terms of the project permits.

1.6.2 Plan Preparer:

Ruggles Engineering Services, Inc.
Nathan P. Sicard, P.E., CPESC
4580 Memorial Drive
St. Johnsbury, VT 05819
(802)-748-5898
nate.res@myfairpoint.net

Ruggles Engineering is familiar with the VT Standards and Specifications for Erosion Prevention and Sediment Control, relative sections of the VT Agency of Transportation Standard Specifications for Construction and Contract Special Provisions, and project specific permits.

1.7 Schedule

The contractor is attaching their proposed schedule to this plan. See Appendix A - SCHEDULES.

1.8 Inspection Form

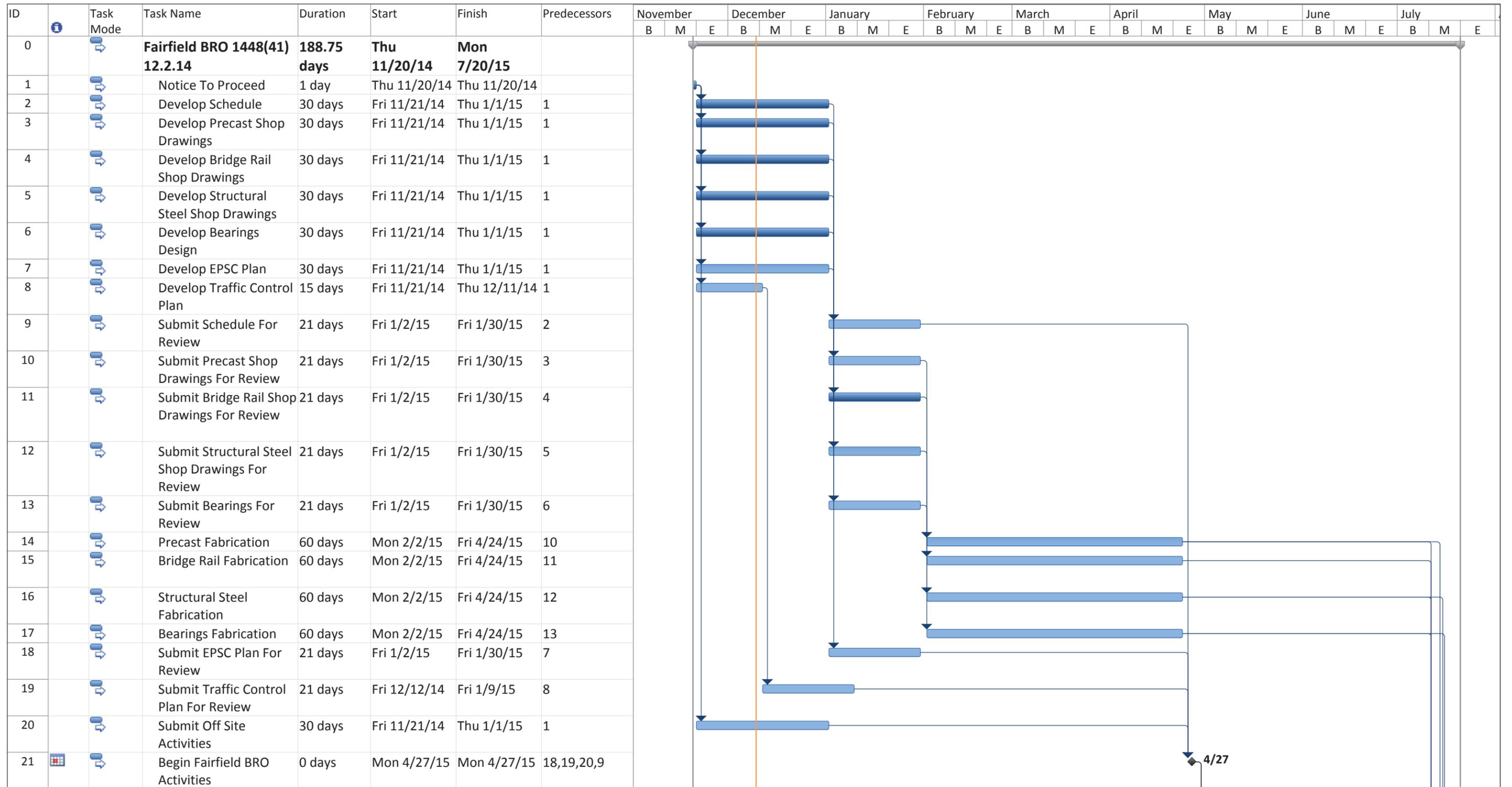
See Appendix B - FORMS.

2 Erosion Prevention and Sediment Control Plan

See Appendix C – PLANS.

APPENDIX A – SCHEDULES

1. Contractor CPM Schedule – PREPARED BY CONTRACTOR.



Project: Fairfield BRO 1448(41) 12 Date: Wed 12/10/14	Task		Project Summary		Inactive Milestone		Manual Summary Rollup		Deadline	
	Split		External Tasks		Inactive Summary		Manual Summary		Critical	
	Milestone		External Milestone		Manual Task		Start-only		Critical Split	
	Summary		Inactive Task		Duration-only		Finish-only		Progress	

APPENDIX B – FORMS

1. Off-Site Activities Form.
2. Off-Site Activities Exemption Form.
3. Inspection Form.

OFF-SITE ACTIVITY REVIEW



VTRANS ENVIRONMENTAL RESOURCE REVIEW

Project/District Name: Fairfield BRO 1448(41) Proposed Area Name: LVRT Property

Waste Borrow Staging Other: _____

Area 1: X: 470,674.70 Y: 254,703.65 (A)

Area 2: X: 470,590.39 Y: 254, 723.63 (B)

Area 3: X: 470,559.78 Y: 254,731.26 (C)

Natural Resource Review

Reviewer: Glenn Gingras, VTrans Biologist

Accepted Rejected Date 12/1/2014 Signature Glenn Gingras

Comments _____

Cultural Resource Review

Reviewer: Brennan Gauthier

Accepted Rejected Date 12/1/2014 Signature Brennan Gauthier

Comments _____

~~The Site has been REJECTED for use at this time~~

The Contractor is advised to:

- Seek another site for use
- Hire an Environmental firm to _____
- Hire an Archeological consultant to clear Section 106 issues

~~This site has been ACCEPTED (Site does not warrant any special conditions)~~

This site has been ACCEPTED with the following conditions:

- Maintain a minimum buffer of 50 feet from wetlands,
- Orange fencing must be installed to protect nearby resources _____
- Materials must be placed on geotextile fabric
- Use of this site must comply with applicable local/state/federal permitting regulations including but not limited to:
Access to recreational trail should not be blocked. Railroad agreements may be needed for sites within the Lamoille Valley railway right of way.
- Please contact the Construction Environmental Engineer prior to use of this site.
- Other: Vegetation clearing adjacent to Black Creek should be kept to a minimum.

The VT ANR Low Risk Site Handbook for EPSC measures should be used as a minimum measure for best management practices at waste, borrow and staging sites.

A copy of this Review has been faxed to the Resident Engineer/District Tech Yes No

A copy of this Review has been delivered to the Construction Env Eng (CEE) Yes No

This clearance is for the Natural and Cultural Resources Only.

received
11.25.14

OFF-SITE ACTIVITY SUBMITTAL

VTrans VERMONT TRANSPORTATION

- This form is to be completed in its entirety by the Contractor/District Tech when proposing any waste, borrow, or staging area or any work outside the defined Contract construction limits.
- Submit to Karen Spooner: karen.spooner@state.vt.gov, Phone: (802)828-2169, Fax: (802)828-2334, VTrans Program Development Division, Environmental Section, One National Life Drive, Montpelier, VT 05633-5001
- Submit a copy to the Resident Engineer
- Allow 21 calendar days (see Section 105.25 (e) of the VTrans Standard Specifications For Construction) for review once the application is administratively complete.

SUBMITTAL INFORMATION

3 sites

Project Name/District: Fairfield PRO 1442 (VI) Contractor/District Tech: A.L. St. Onge
 Contact: Carl W. Gleason Phone: 802-782-3978 Fax: _____ E-mail: gleason.carl@gmail.com
 Resident Engineer: Greg Wilcox Phone: _____ Fax: _____

PROPOSAL INFORMATION (Select one type of area being proposed for use per submittal and describe associated characteristics)

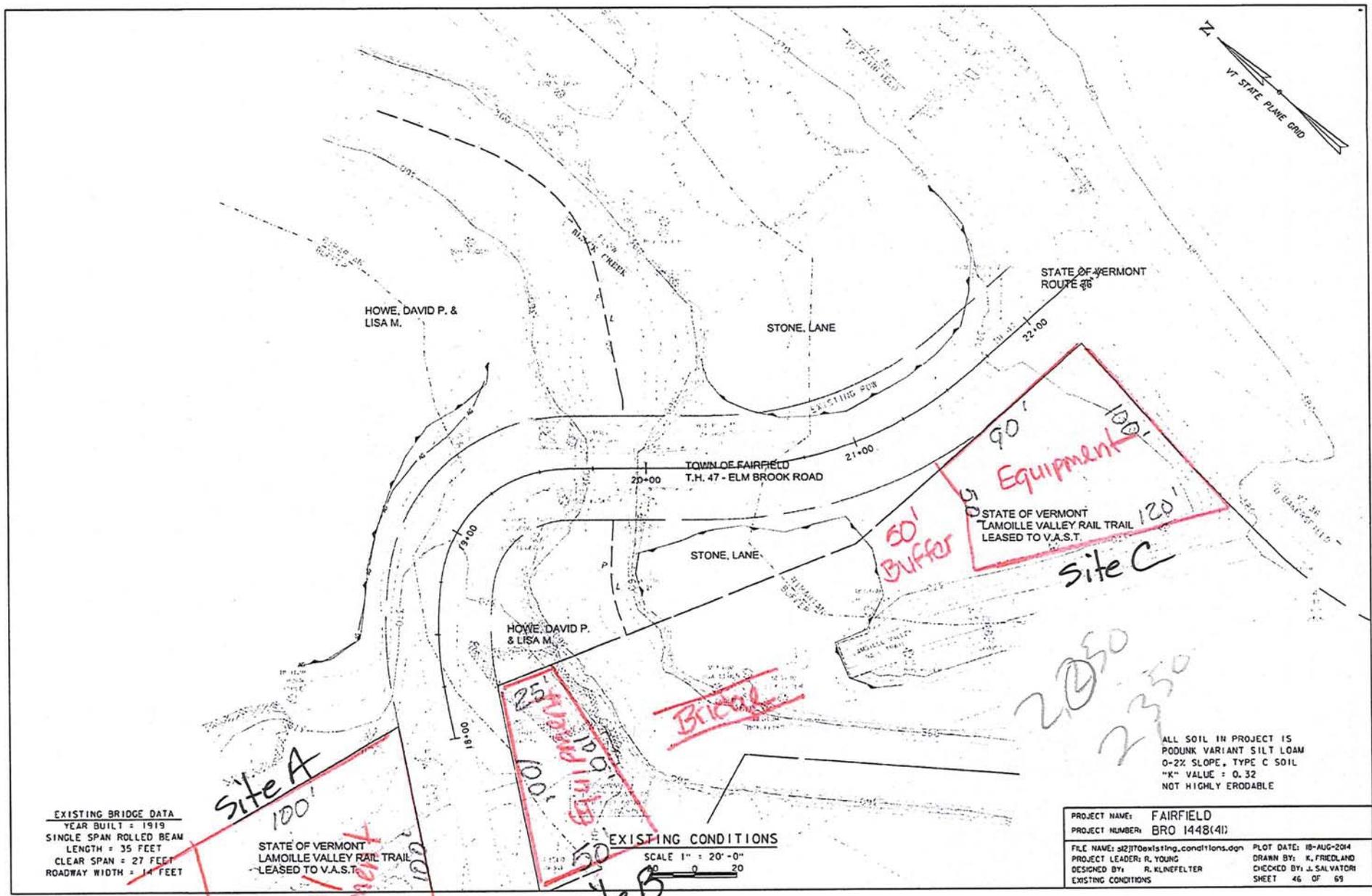
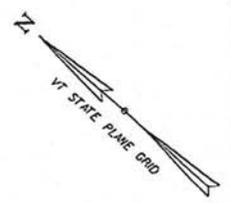
Waste Borrow Staging Other (ex. dewatering location): _____
 Material: Type (asphalt, concrete, carthen, etc.) earthen/equip Quantity (yds³) 500 yd³
 Total Area of Land Disturbance (sq ft) 21,000 sq
 Additional Info: Area owned by State of Vermont Rail trail, 3 sites

LANDOWNER/PROPERTY INFO (Fill all applicable boxes; attach a Location Map and Sketch of Area)

Name: State of Vermont Address: Fairfield VT Phone: _____
 Print Name: Lamoille Valley Rail Trail
 Private Residential/Commercial Town/State Owned Facility Other
 Additional Info: _____
 Are there other users of this site? Yes No
 Known past uses: _____
 Location Map (must be USGS Geological Survey Map (7.5'))
 Sketch of Area: North arrow Approx scale Recognizable features
 Permit Info:
 Act 250 Permit Exists? Yes No If Yes, # _____ Copy Enclosed? Yes No
 List of Other Existing Permits: None

Landowner Agreement (Signature is required for all private-, town-, and state-owned properties)
 I, Carl W. Gleason warrant that the information in the above permit application is accurate and agree
 Landowner/Facility Manager Signature
 to the use of the proposed area by A.L. St. Onge Inc as shown on the attached sketch. If acting as the agent of
 Name of Contractor
 the Landowner, I warrant (1) that the Landowner has the full right, power, and authority to authorize the proposed use, (2) that I am
 authorized to act as the Landowner's agent, and (3) that my authority to act as the Landowner's agent has not been revoked.
 Date: 11-17-14

This clearance is for the Natural and Cultural Resources Only.



EXISTING BRIDGE DATA
 YEAR BUILT = 1919
 SINGLE SPAN ROLLED BEAM
 LENGTH = 35 FEET
 CLEAR SPAN = 27 FEET
 ROADWAY WIDTH = 14 FEET

STATE OF VERMONT
 LAMOILLE VALLEY RAIL TRAIL
 LEASED TO V.A.S.T.

EXISTING CONDITIONS

SCALE 1" = 20'-0"
 0 20

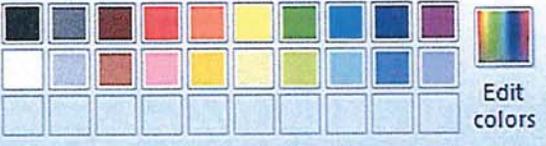
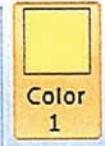
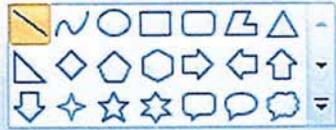
ALL SOIL IN PROJECT IS
 PODUNK VARIANT SILT LOAM
 0-2% SLOPE, TYPE C SOIL
 "K" VALUE = 0.32
 NOT HIGHLY ERODABLE

PROJECT NAME:	FAIRFIELD	PLOT DATE:	18-AUG-2014
PROJECT NUMBER:	BRO 1448(41)	PROJECT LEADER:	R. YOUNG
DESIGNED BY:	R. KLINEFELTER	CHECKED BY:	J. SALVATORE
EXISTING CONDITIONS:		SHEET	46 OF 69

received
 11-25-14

received
11.25.14

Open
Size
State



Edit colors

Tools

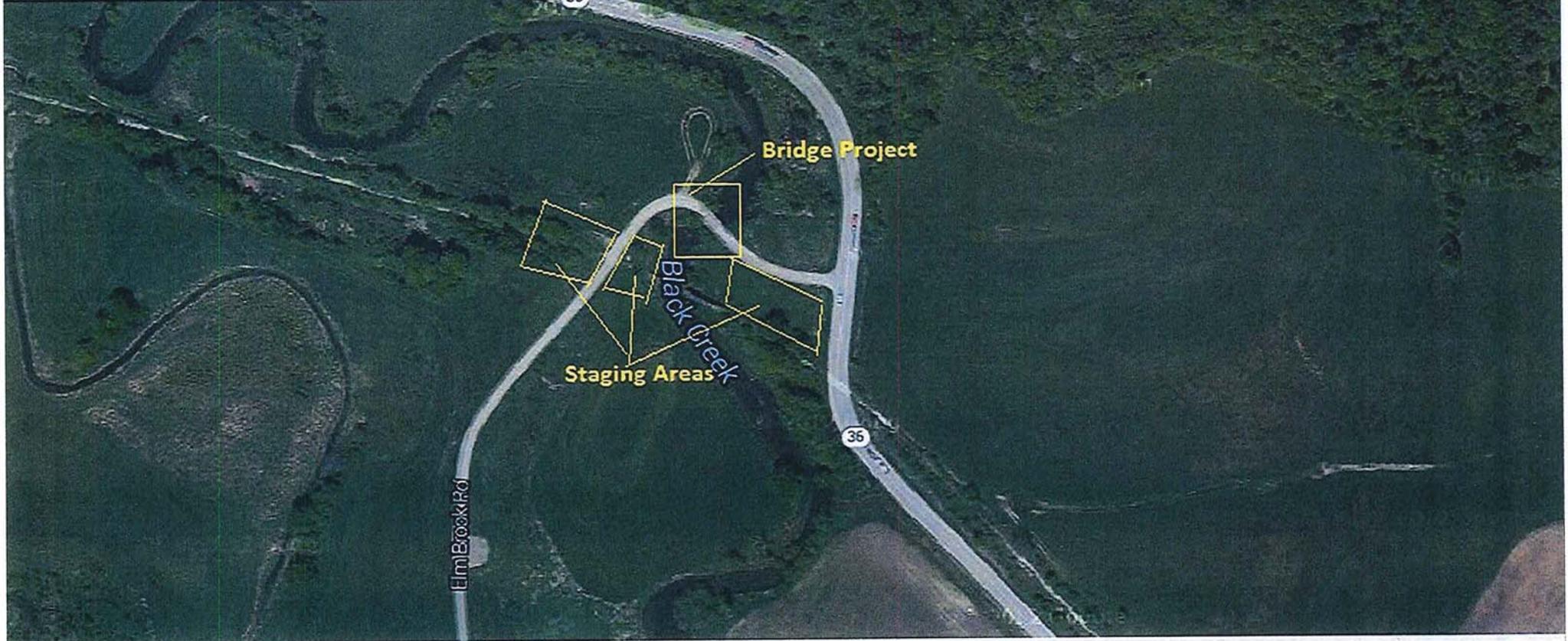
Shapes

Colors

Close (X) Search (Q)

T 05448

rbby



2806 x 1020px

Size: 3.2MB



received
11-25-14

OFF-SITE ACTIVITY SUBMITTAL

VTrans logo

- This form is to be completed in its entirety by the Contractor/District Tech when proposing any waste, borrow, or staging area or any work outside the defined Contract construction limits.
- Submit to Karen Spooner: karen.spooner@state.vt.us, Phone: (802)828-2169, Fax: (802)828-2334, VTrans Program Development Division, Environmental Section, One National Life Drive, Montpelier, VT 05633-5001
- Submit a copy to the Resident Engineer
- Allow 21 calendar days (see Section 105.25 (e) of the VTrans Standard Specifications For Construction) for review once the application is administratively complete.

3 sites

SUBMITTAL INFORMATION

Project Name/District: Fairfield BRO 1448 (41) Contractor/District Tech: A.L. St. Onge
 Contact: Carl W. Gleason Phone: 802-782-3978 Fax: _____ E-mail: gleason.carl@vtrans.com
 Resident Engineer: Greg Wilcox Phone: _____ Fax: _____

PROPOSAL INFORMATION (Select one type of area being proposed for use per submittal and describe associated characteristics)

Waste Borrow Staging Other (ex. dewatering location): _____
 Material: Type (asphalt, concrete, earthen, etc.) _____ Quantity (yds³) _____
 Total Area of Land Disturbance (sq ft) _____
 Additional Info: _____

LANDOWNER/PROPERTY INFO (Fill all applicable boxes; attach a Location Map and Sketch of Area)

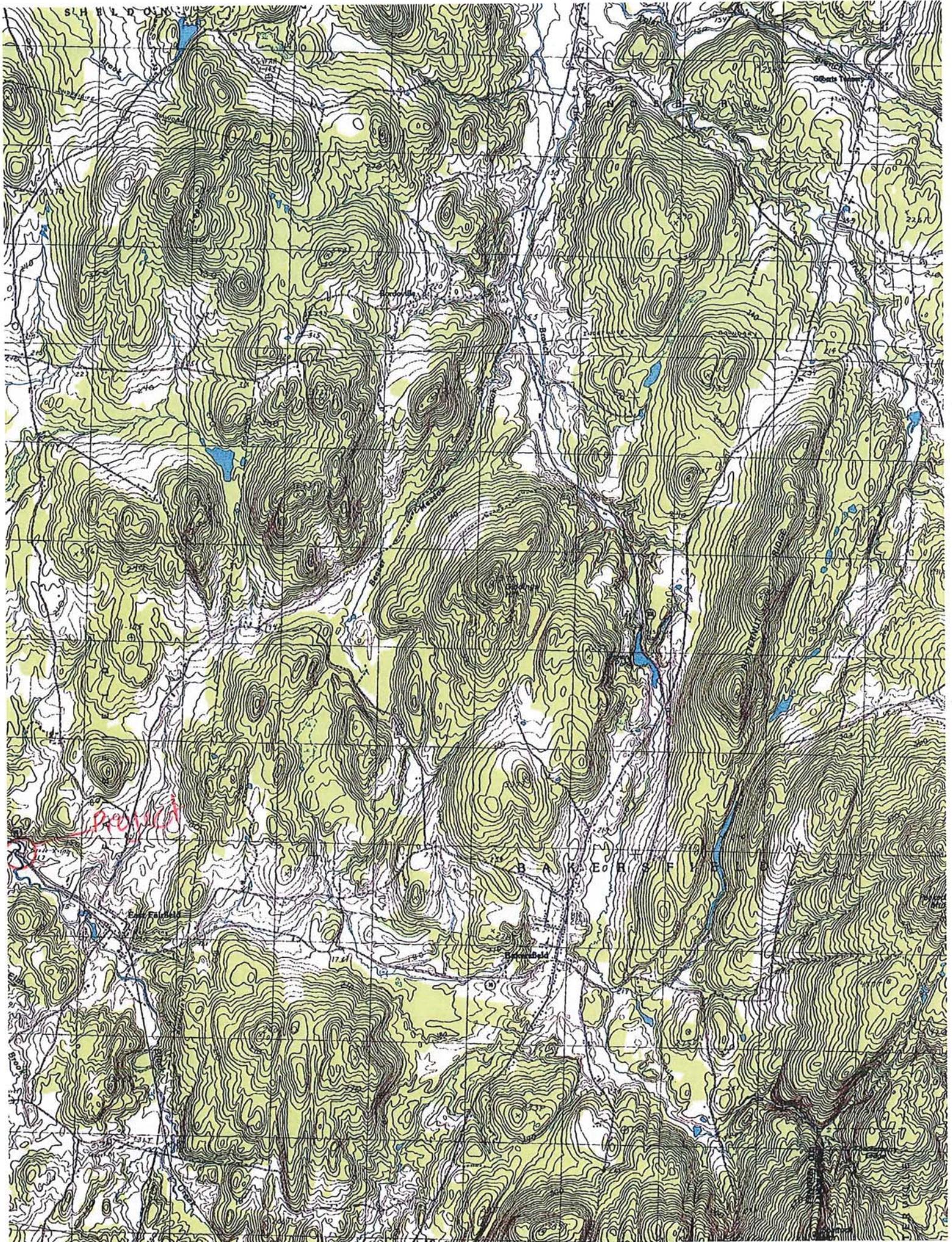
Name: State of Vermont Address: _____ Phone: _____
 Print Name: Lamontville Valley Rail Trail
 Private Residential/Commercial Town/State Owned Facility Other
 Additional Info: _____
 Are there other users of this site? Yes No
 Known past uses: _____
 Location Map (must be USGS Geological Survey Map (7.5'))
 Sketch of Area: North arrow Approx scale Recognizable features
 Permit Info:
 Act 250 Permit Exists? Yes No If Yes, # _____ Copy Enclosed? Yes
 List of Other Existing Permits: None

Staging what?
 If applicable, how much?
 Property located in?
 sketch
 Looks like 3 sites
 YES or NO?
 Better map.

Landowner Agreement (Signature is required for all private-, town-, and state-owned properties)

I, X Daniel St. Onge warrant that the information in the above permit application is accurate to the use of the proposed area by A.L. St. Onge Inc. as shown on the attached sketch. If acting as the agent of the Landowner, I warrant (1) that the Landowner has the full right, power, and authority to authorize the proposed use, (2) that I am authorized to act as the Landowner's agent, and (3) that my authority to act as the Landowner's agent has not been revoked.
 Date: X 11-17-14

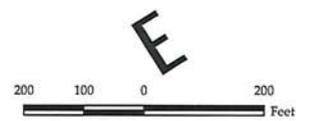
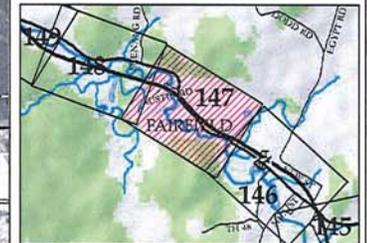
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VAST
Lamoille Valley Rail Trail
St. Johnsbury to Swanton, VT
Plan Sheet 147 of 187

July 29, 2009

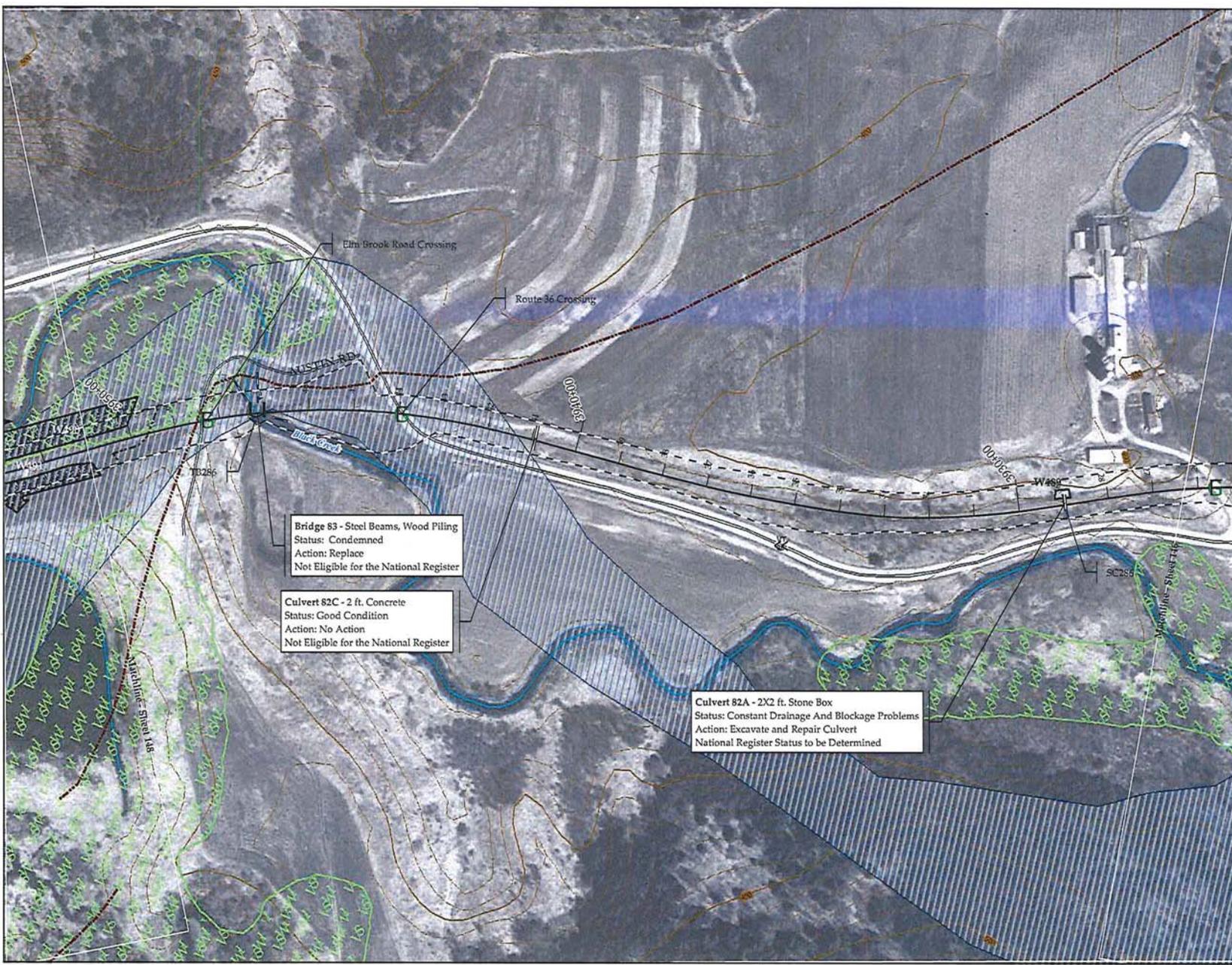
- | | | | |
|--|-----------------------------|--|--------------------------------|
| | IVRT Centerline | | Washout |
| | Valuation Corridor | | FRP Site Location |
| | Bridge | | Historic Site |
| | Cattlepass | | Historic District |
| | Culvert | | Proposed HD Addition |
| | Unlocated Culvert | | RTI Species Site |
| | Public/Private Crossing | | Class II Wetland |
| | Unauthorized Crossing | | Class III Wetland |
| | Trailhead | | Class II Wetland Buffer (50ft) |
| | Encroachment | | VSWI Wetland |
| | Existing Trail | | VHD Waterbody |
| | Town/State Road | | Surveyed Stream |
| | Electric Transmission Lines | | Surveyed Top of Bank |
| | | | VHD Stream |
| | | | 100 Year Flood Overlay |
| | | | 500 Year Flood Overlay |



Sources: Background: VT DOQ (2000); Trail Centerline Route by VHB Pioneer (2008); Trail Infrastructure Data provided by VAST (2008); Roads, Stream and Waterbody data downloaded from VCGI (2008); Elevation and Town Boundary data provided by VCGI (2004); Wetlands data downloaded from VCGI (2005); Wetlands and Streams delineated and surveyed using Trimble GPS Equipment by VHB Pioneer (2008); Historic Sites identified and mapped by VHB (2008); Floodway data provided by VCGI, FEMA and VT DEC (2009).

Prepared by: JAT/WBM/ZMY
F:\57294.001\CIS\project\Plans_200_Scale\Revisions_072809\LVRT_Plane_200_Scale.mxd

VHB PIONEER
7056 US Route 7, PO Box 120
North Ferrisburgh, VT 05473
T.802.425.7788 F.802-425.7799
www.vhb.com



Bridge 83 - Steel Beams, Wood Piling
Status: Condemned
Action: Replace
Not Eligible for the National Register

Culvert 82C - 2 ft. Concrete
Status: Good Condition
Action: No Action
Not Eligible for the National Register

Culvert 82A - 2X2 ft. Stone Box
Status: Constant Drainage And Blockage Problems
Action: Excavate and Repair Culvert
National Register Status to be Determined

OFF-SITE ACTIVITY SUBMITTAL



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- Submit to Karen Spooner: karen.spooner@state.vt.us, Phone: (802)828-2169, Fax: (802)828-2334, VTrans Program Development Division, Environmental Section, One National Life Drive, Montpelier, VT 05633-5001
- Submit a copy to the Resident Engineer
- Allow 21 calendar days (see Section 105.25 (c) of the VTrans Standard Specifications For Construction) for review once the application is administratively complete.

SUBMITTAL INFORMATION

Project Name/District: Fairfield BRFO28(25) Contractor/District Tech: A.L. St. Onge
Contact: Carl Gleason Phone: 702-3978 Fax: _____ E-mail: gleason.carl@gmail.com
Resident Engineer: Greg Wilcox Phone: _____ Fax: _____

PROPOSAL INFORMATION (Select one type of area being proposed for use per submittal and describe associated characteristics)

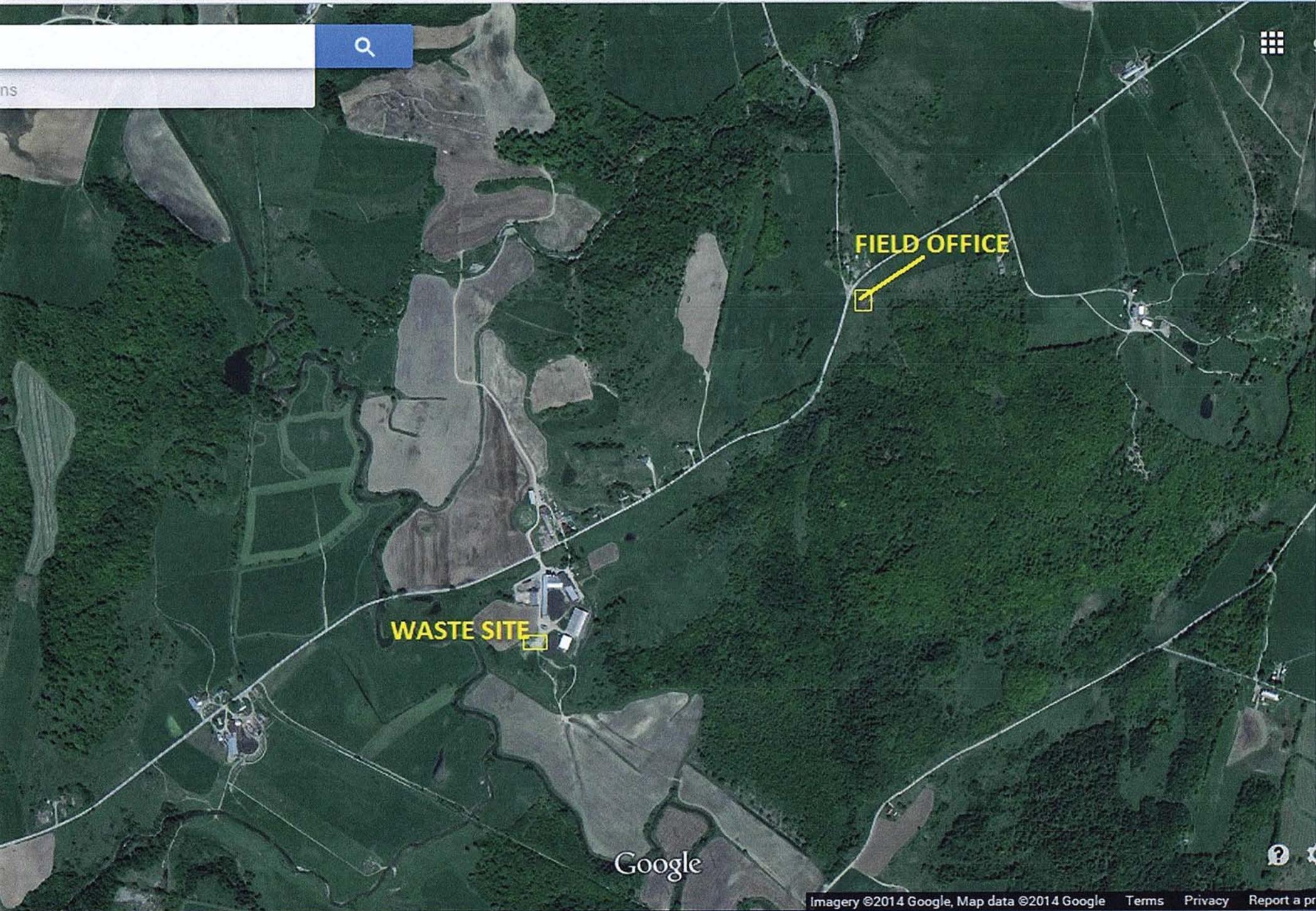
Waste Borrow Staging Other (ex. dewatering location): _____
Material: Type (asphalt, concrete, earthen, etc.) Earthen Quantity (yds³) 1400 cy ±
Total Area of Land Disturbance (sq ft) 15000 sq ft ±
Additional Info: Waste Area remains @ the farm site - same as Fairfield BRFO48(38)

LANDOWNER/PROPERTY INFO (Fill all applicable boxes; attach a Location Map and Sketch of Area)

Name: Magnan Brothers Dairy Address: Chester A. Arthur Rd Phone: _____
Print Name
 Private Residential/Commercial Town/State Owned Facility Other
Additional Info: Operating Dairy Farm
Are there other users of this site? Yes No
Known past uses: A.L. St. Onge year 2014 Fairfield BRFO 1448(38) Project
 Location Map (must be USGS Geological Survey Map (7.5"))
 Sketch of Area: North arrow Approx scale Recognizable features
Permit Info:
Act 250 Permit Exists? Yes No If Yes, # _____ Copy Enclosed? Yes No
List of Other Existing Permits: _____

Landowner Agreement (Signature is required for all private-, town-, and state-owned properties)
I, Peter H. Magnan, warrant that the information in the above permit application is accurate and agree
Landowner/Facility Manager Signature
to the use of the proposed area by A.L. St. Onge as shown on the attached sketch. If acting as the agent of
Name of Contractor
the Landowner, I warrant (1) that the Landowner has the full right, power, and authority to authorize the proposed use, (2) that I am authorized to act as the Landowner's agent, and (3) that my authority to act as the Landowner's agent has not been revoked.
Date: Dec 2, 2014

This clearance is for the Natural and Cultural Resources Only.



ns

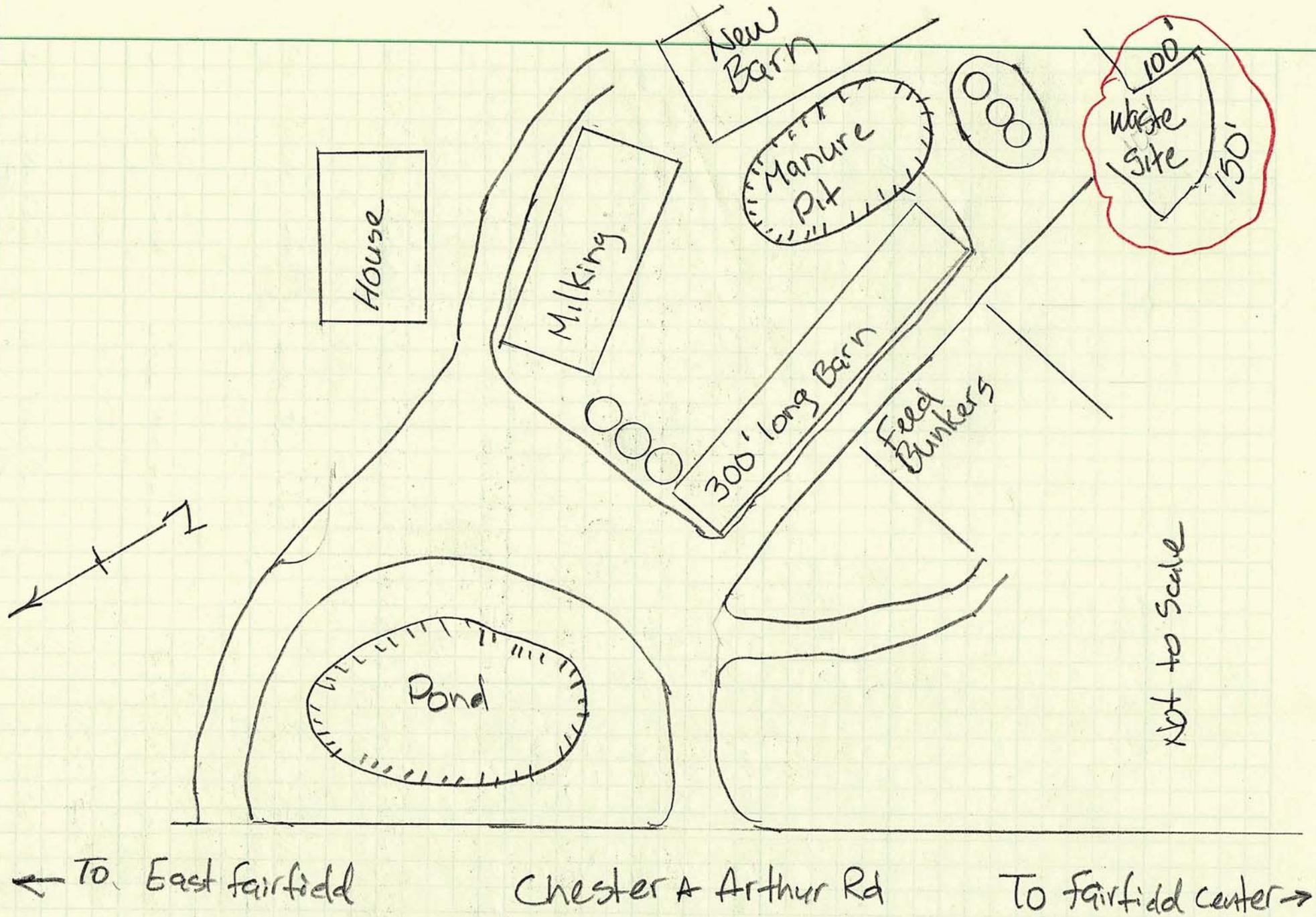


FIELD OFFICE

WASTE SITE

Google





OFF-SITE ACTIVITY SUBMITTAL



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- **Submit a copy to the Resident Engineer**
- **Allow 21 calendar days (see Section 105.25 (c) of the VTrans Standard Specifications For Construction) for review once the application is administratively complete.**

▪ **SUBMITTAL INFORMATION**

Project Name/District: <u>Fairfield BRO 0281(25)</u> <u>Fairfield BRO 1448(41)</u>		Contractor/District Tech: <u>A. L. St. Onge</u>	
Contact: <u>Carl Gleason</u>	Phone: <u>782-3978</u>	Fax: _____	E-mail: <u>gleason.carl@gmail.com</u>
Resident Engineer: <u>Greg Wilcox</u>	Phone: _____	Fax: _____	

▪ **PROPOSAL INFORMATION** (Select one type of area being proposed for use per submittal and describe associated characteristics)

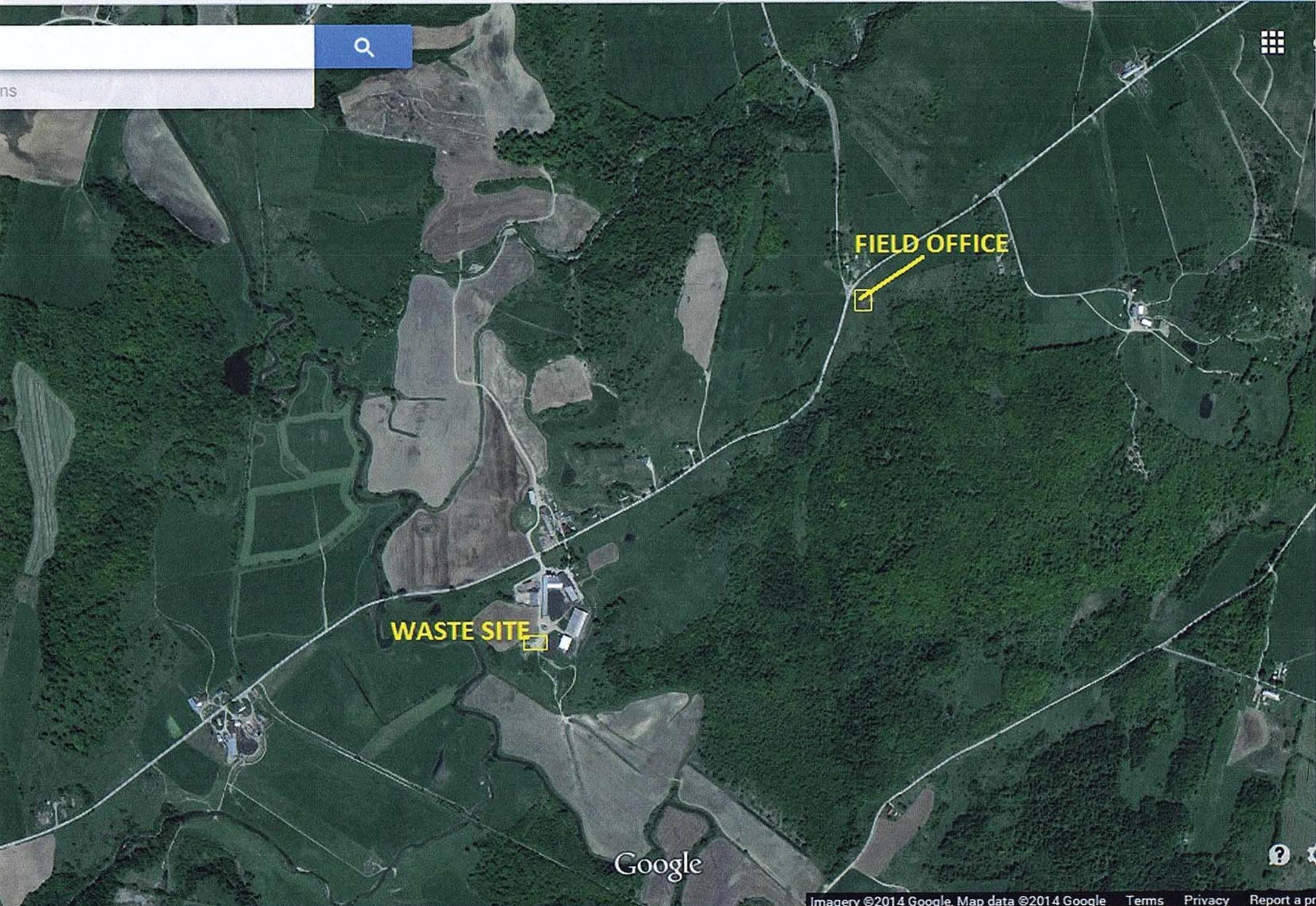
<input type="checkbox"/> Waste	<input type="checkbox"/> Borrow	<input type="checkbox"/> Staging	<input checked="" type="checkbox"/> Other (ex. dewatering location): <u>Field Office location</u>
Material: Type (asphalt, concrete, earthen, etc.) <u>office trailer</u>		Quantity (yds ³) <u>∅</u>	
Total Area of Land Disturbance (sq ft) <u>∅ additional</u>		<u>Pasture</u>	
Additional Info: <u>Field Office trailer remains in same location @ Fairfield BRO 1448(38)</u>			

▪ **LANDOWNER/PROPERTY INFO** (Fill all applicable boxes; attach a Location Map and Sketch of Area)

Name: <u>Mignan Brothers Dairy</u>	Address: <u>Chester A Arthur Rd</u>	Phone: _____
<small>Print Name</small>		
<input checked="" type="checkbox"/> Private Residential/Commercial	<input type="checkbox"/> Town/State Owned Facility	<input type="checkbox"/> Other
Additional Info: _____		
Are there other users of this site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Known past uses: <u>A. L. St. Onge Year 2014 Fairfield BRO 1448(38) Project, same set up</u>		
<input type="checkbox"/> Location Map (must be USGS Geological Survey Map (7.5'))		
<input type="checkbox"/> Sketch of Area:	<input type="checkbox"/> North arrow	<input type="checkbox"/> Approx scale <input type="checkbox"/> Recognizable features
Permit Info:		
Act 250 Permit Exists?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If Yes, # _____ Copy Enclosed? <input type="checkbox"/> Yes <input type="checkbox"/> No
List of Other Existing Permits: _____		

Landowner Agreement (Signature is required for all private-, town-, and state-owned properties)	
I, <u>Peter H. Mignan</u>	warrant that the information in the above permit application is accurate and agree
<small>Landowner/Facility Manager Signature</small>	
to the use of the proposed area by <u>A. L. St. Onge</u>	as shown on the attached sketch. If acting as the agent of
<small>Name of Contractor</small>	
the Landowner, I warrant (1) that the Landowner has the full right, power, and authority to authorize the proposed use, (2) that I am authorized to act as the Landowner's agent, and (3) that my authority to act as the Landowner's agent has not been revoked.	
Date: <u>Dec 2, 2014</u>	

This clearance is for the Natural and Cultural Resources Only.

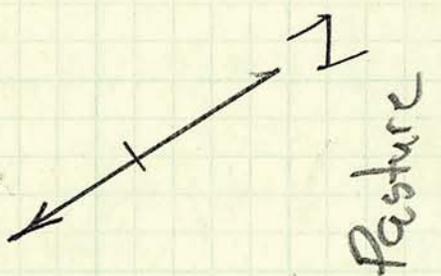


WASTE SITE

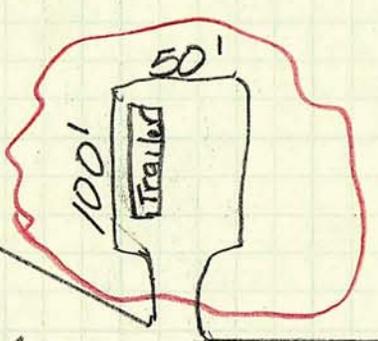
FIELD OFFICE

Google





Not to Scale



To East Fairfield

Chester A Arthur Rd

→ To Fairfield Center

Wanzer Rd

WrA: Westbury stony fine sandy loam, 0 to 3 percent slopes

WESTBURY SOILS formed in loamy, compact glacial till in moderately low areas on uplands. They are very deep to bedrock, shallow to moderately deep to dense basal till and somewhat poorly drained. These soils have a perched water table at depths of 0.5 to 1.5 feet below the surface from Mid-Winter through early Spring. Permeability is moderate in the surface layer and upper part of the subsoil and slow or very slow in the lower part of the subsoil and substratum.

These soils are suited to cultivated crops if adequate drainage is provided. They are well suited to hay and pasture. Stones on the surface are troublesome in tillage and harvesting operations but in most cases they do not prohibit use. A seasonal high water table may inhibit the establishment of some crops. Areas of this soil may be classified as wetland and drainage may be regulated.

<u>Important farmland classification:</u> Statewide	<u>Land capability:</u> 3 w	<u>Vermont Agricultural Value Group:</u> 6d
---	-----------------------------	---

Vermont Residential Wastewater Disposal - Group and Subgroup:

IIIc.- This unit is marginally suited as a site for soil-based residential wastewater disposal systems, based on a review by the Natural Resources Conservation Service of criteria set forth in the Vermont 2007 Environmental Protection Rules. The depth to the seasonal high water table in association with the minimal slope is the major limitation. A detailed, site-specific analysis is generally required. On-site groundwater level monitoring and determination of induced groundwater mounding is often necessary to establish the suitability of this unit. Curtain drains may help lower the water table to an acceptable level, however, the minimal slope may prevent their use in many areas.

PHYSICAL and CHEMICAL PROPERTIES							EROSION FACTORS		
Soil name	Depth (In)	Typical texture	Clay (Pct)	Soil reaction (pH)	Permeability (In/Hr)	Organic matter (Pct)			
							Kw	Kf	T
Westbury	0-6	FSL	3-12	3.6 - 6.0	0.6-2	2.0-8.0	.32	.32	3
	6-20	FSL	3-12	3.6 - 6.0	0.6-2	1.0-3.0	.24	.28	
	20-60	FSL	3-12	4.5 - 6.0	0-0.2	0.0-1.0	.24	.28	

WATER FEATURES					SOIL FEATURES			
Soil name	Hydrologic group	Depth to seasonal high water table (Feet)	Flooding		Ponding		Hydric soil?	Depth to bedrock (range in inches)
			Frequency	Duration	Frequency	Duration		
Westbury	C	0.5-1.5	None		None		No	---

LAND USE LIMITATIONS				AGRICULTURAL YIELD DATA	
Soil name	Land use	Rating	Reason **	Crop name	Yield / acre
Westbury	Dwellings with basements:	Very limited	Depth to saturated zone	Grass-legume hay	3 Tons
Westbury	Pond reservoir areas:	Somewhat limited	Seepage	Alfalfa hay	3 Tons
				Pasture	5.5 AUM
				Corn silage	14 Tons
				Grass hay	3 Tons

WOODLAND MANAGEMENT				
Soil name	Management concern	Rating	Reason	Vermont natural communities
Westbury	Harvest equip operability:	Well suited		Northern Hardwood Forest, Red Spruce-Northern Hardwood Forest, Lowland Spruce-Fir Forest
Westbury	Road suitability:	Poorly suited	Wetness	
Westbury	Erosion hazard (off-road):	Slight		

Inspection Forms

Project Name:			Date:		Time Since Last Storm:	
Inspector:			On-Site Coordinator: <small>(signature required)</small>			
Measure Inspected	Y	N	STA/Off	Corrective Action (CA) Required	Date CA Occurred	
Boundary Limits						
Site boundary markers are up and visible						
Disturbance is only occurring within marked boundaries						
Disturbance Area Limit						
Only acreage listed on <i>Authorization to Discharge</i> is disturbed at one time						
Stabilized Construction Entrance/Exit						
Off site tracking of sediment prevented						
Sediment Barriers						
Measure has been installed properly and is functioning as designed						
Accumulated sediment < 1/2 height of measure						
Diversions						
Upland stormwater is diverted around the work area						
Channelized Runoff						
Check structures are in place, extend the width of the channel, and have capacity to retain sediment in the next storm event						
Channels are stable with no erosion						
Exposed Soils Stabilization						
Seed and mulch, and/or matting placed in accordance w/ permit requirements and/or Specifications						
Soil is seeded and mulched or covered in erosion matting within 48 hours of final grade						
Winter Stabilization						
After Sept. 15' all disturbed areas are seeded & mulched to 3" deep or covered w/ matting						
For ongoing construction, exposed soil is mulched prior to forecasted events						
Dewatering Treatment						
Measure is preventing a discharge of turbid water from leaving the site						
Accumulated sediment is removed to allow sufficient treatment						

* Additional Measures and Discharges shall be reported on the back side of this form.

APPENDIX C – PLANS

1. EPSC Narrative Section 1-4 (Contract Plans).
2. EPSC Plan and Detail Sheets.

EPSC PLAN NARRATIVE

1.1 PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE REMOVAL OF BRIDGE 46 IN ITS ENTIRETY. BRIDGE 46 WILL BE REPLACED WITH A NEW STRUCTURE, SPANNING 51 FEET OVER BLACK CREEK, ON NEW ABUTMENTS ALONG THE SAME ALIGNMENT. BRIDGE 46 IS LOCATED IN THE TOWN OF FAIRFIELD, ON TOWN HIGHWAY 47, APPROXIMATELY 250 FEET FROM THE INTERSECTION OF VT ROUTE 36 AND TOWN HIGHWAY 47.

NOTE: AREA OF DISTURBANCE INCLUDES LIMITS OF EARTH DISTURBANCE WITHIN THE PROJECT AREA, AS WELL AS WASTE, BORROW AND STAGING AREAS, AND OTHER EARTH DISTURBING ACTIVITIES WITHIN OR DIRECTLY ADJACENT TO THE PROJECT LIMITS AS SHOWN ON THE ATTACHED EPSC PLAN.

TOTAL AREA OF DISTURBANCE AS SHOWN ON THE ATTACHED EPSC PLAN IS APPROXIMATELY 0.27 ACRES.

IT IS ANTICIPATED THAT THIS PROJECT WILL LAST ONE CONSTRUCTION SEASON.

1.2 SITE INVENTORY

1.2.1 TOPOGRAPHY

THE TOPOGRAPHY OF THE AREA IS A FLOODPLAIN AND WETLANDS THAT IS BUFFER FARMLAND WITH FOREST UPSLOPE. TOWN HIGHWAY 47 IS THE ONLY ROADWAY WITHIN THE PROJECT SITE, VT ROUTE 36 IS NOT WITHIN THE PROJECT SITE, BUT IS NEARBY. THERE ARE NO RESIDENCES NEAR THE PROJECT.

1.2.2 DRAINAGE, WATERWAYS, BODIES OF WATER, AND PROXIMITY TO NATURAL OR MAN-MADE WATER FEATURES

BLACK CREEK IS THE ONLY WATER SOURCE ON THE PROJECT SITE. THE CREEK IS CLASSIFIED AS SINUOUS, AND ALLUVIAL WITH AN INCISED CHANNEL AT THE SITE. THE STREAM BED CONSISTS OF CLAY AND SILT. THE TRIBUTARY AREA AT THE BRIDGE CROSSING IS 39.2 MILES². DUE TO THE NATURE OF THE SURROUNDING TERRAIN THE PROJECT SITE COULD RECEIVE RUNOFF WATER FROM A FEW NEARBY SLOPES. THERE IS AN OLD RAIL BRIDGE JUST UPSTREAM THAT IS PART OF A RAIL-TRAIL.

1.2.3 VEGETATION

THE VEGETATION IN THE PROJECT AREA CONSISTS OF SCRUB TREES, UNDERGROWTH, AND WHATEVER CROP HAS BEEN PLANTED. THE IMPACT TO VEGETATION WILL BE LIMITED TO THAT WHICH IS DIRECTLY AFFECTED BY REPLACEMENT OF THE EXISTING BRIDGE. UPON PROJECT COMPLETION, THE CHANNEL WILL BE ARMORED WITH STONE FILL TYPE III AS SPECIFIED ON THE PLANS. DISTURBED VEGETATION WILL BE REESTABLISHED WITH STANDARD SEED AND MULCH PRACTICES.

1.2.4 SOILS

ALL SOIL DATA CAME FROM THE U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE FOR THE COUNTY OF FRANKLIN, VERMONT. SOIL ON THE PROJECT SITE IS PODUNK VARIANT SILT LOAM, 0% TO 2% SLOPES, "K FACTOR" = 0.32. THE SOIL IS CONSIDERED NOT HIGHLY ERODIBLE.

NOTE: K-VALUES GENERALLY INDICATE THE FOLLOWING:

0.0-0.23 = LOW EROSION POTENTIAL

0.24-0.36 = MODERATE EROSION POTENTIAL

0.37 AND HIGHER = HIGH EROSION POTENTIAL

1.2.5 SENSITIVE RESOURCE AREAS

CRITICAL HABITATS: NO

HISTORICAL OR ARCHEOLOGICAL AREAS: NO

PRIME AGRICULTURAL LAND: YES, TO THE EAST OF THE STRUCTURE

THREATENED AND ENDANGERED SPECIES: NO

WATER RESOURCE: BLACK CREEK

WETLANDS: YES, MOST OF THE SURROUNDING AREA IS WETLANDS.

1.3 RISK EVALUATION

THIS PROJECT DOES NOT FALL UNDER THE JURISDICTION OF GENERAL PERMIT 3-9020 FOR STORMWATER RUNOFF FROM CONSTRUCTION SITES. SHOULD CHANGES PRIOR TO OR DURING CONSTRUCTION RESULT IN ONE OR MORE ACRES OF EARTH DISTURBANCE OR SHOULD THE PROJECT BECOME PART OF A LARGER PLAN OF DEVELOPMENT, THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY ADDITIONAL PERMITTING.

1.4 EROSION PREVENTION AND SEDIMENT CONTROL

THE EROSION CONTROL PLANS ARE MEANT AS A GUIDELINE FOR PREVENTING EROSION AND CONTROLLING SEDIMENT TRANSPORT. THE PRINCIPLES OUTLINED IN THIS NARRATIVE CONSIST OF APPLYING MEASURES THROUGHOUT CONSTRUCTION OF THE PROJECT IN ORDER TO MINIMIZE SEDIMENT TRANSPORT TO THE RECEIVING WATERS. THE MEASURES INCLUDE STABILIZATION AND STRUCTURAL PRACTICES, STORM WATER CONTROLS AND OTHER POLLUTION PREVENTION PRACTICES. THEY HAVE BEEN PROPOSED BY THE DESIGNER AS A BASIS FOR PROTECTING RESOURCES AND WILL NEED TO BE BUILT UPON BASED ON THE SPECIFIC MEANS AND METHODS OF THE CONTRACTOR. REFER TO THE LOW RISK SITE HANDBOOK AND APPROPRIATE DETAIL SHEETS FOR SPECIFIC GUIDANCE AND CONSTRUCTION DETAILING.

ALL MEASURES SHALL BE REGULARLY MAINTAINED AND SHALL BE CHECKED FOR SEDIMENT BUILD-UP. SEDIMENT SHALL BE DISPOSED OF AT AN APPROVED SITE WHERE IT WILL NOT BE SUBJECT TO EROSION.

1.4.1 MARK SITE BOUNDARIES

SITE BOUNDARIES AND AREAS CONSTRUCTION EQUIPMENT CAN ACCESS SHALL BE DELINEATED.

PROJECT DEMARCATION FENCING (PDF) SHALL BE USED TO PHYSICALLY MARK SITE BOUNDARIES, BARRIER FENCE SHALL BE USED INSTEAD OF PROJECT DEMARCATION FENCE WITHIN 100 FEET OF A WATER RESOURCE (STREAM, BROOK, LAKE, POND, WETLAND, ETC).

1.4.2 LIMIT DISTURBANCE AREA

PREVENTING INITIAL SOIL EROSION BY MINIMIZING THE EXPOSED AREA IS MUCH MORE EFFECTIVE THAN TREATING ERODED SEDIMENT. EARTH DISTURBANCE CAN BE MINIMIZED THROUGH CONSTRUCTION PHASING BY ONLY OPENING UP EARTH AS NECESSARY. THIS CAN LIMIT THE AREA THAT WILL BE DISTURBED AND EXPOSED TO EROSION. EMPLOY TEMPORARY CONSTRUCTION STABILIZATION PRACTICES IN INCREMENTAL STAGES AS PHASES CHANGE. FOR PROJECTS WHICH FALL UNDER THE CONSTRUCTION GENERAL PERMIT, ONLY THE ACREAGE LISTED ON THE PERMIT AUTHORIZATION MAY BE EXPOSED AT ANY GIVEN TIME.

MAINTAINING VEGETATED BUFFERS ALONG STREAM BANKS, WETLANDS OR OTHER SENSITIVE AREAS IS A CRUCIAL EROSION AND SEDIMENT CONTROL MEASURE THAT SHOULD BE ESTABLISHED WHEREVER POSSIBLE.

1.4.3 SITE ENTRANCE/EXIT STABILIZATION

TRACKING OF SEDIMENT ONTO PUBLIC HIGHWAYS SHALL BE MINIMIZED TO REDUCE THE POTENTIAL FOR RUNOFF ENTERING RECEIVING WATERS. INSTALLATION SHALL COINCIDE WITH THE CONTRACTORS PROGRESS SCHEDULE.

STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AS PROPOSED ON THE EPSC PLAN AND ANYWHERE EQUIPMENT WILL BE GOING FROM AREAS OF EXPOSED SOILS TO PAVED SURFACES.

1.4.4 INSTALL SEDIMENT BARRIERS

SEDIMENT BARRIERS SHALL BE UTILIZED TO INTERCEPT RUNOFF AND ALLOW SUSPENDED SEDIMENT TO SETTLE OUT. THEY SHALL BE INSTALLED PRIOR TO ANY UP SLOPE WORK.

FILTER CURTAIN SHALL BE INSTALLED AS PROPOSED ON THE EPSC PLANS PRIOR TO ANY CHANNEL WORK.

SILT FENCE WILL BE INSTALLED AS PROPOSED ON THE EPSC PLAN, WOVEN WIRE REINFORCED SILT FENCE SHALL BE USED INSTEAD OF SILT FENCE WITHIN 100 FEET UPSLOPE OF RECEIVING WATERS.

1.4.5 DIVERT UPLAND RUNOFF

DIVERSIONARY MEASURES SHALL BE USED TO INTERCEPT RUNOFF FROM ABOVE THE CONSTRUCTION AND DIRECT IT AROUND THE DISTURBED AREA SO THAT CLEAN WATER DOES NOT BECOME MUDDIED WHILE TRAVELING OVER EXPOSED SOILS ON THE CONSTRUCTION SITE.

THE PROJECT AREA IS RELATIVELY FLAT. THEREFORE IT IS NOT ANTICIPATED THAT DIVERSION MEASURES WILL BE NECESSARY.

1.4.6 SLOW DOWN CHANNELIZED RUNOFF

CHECK STRUCTURES SHALL BE UTILIZED TO REDUCE THE VELOCITY, AND THUS THE EROSION POTENTIAL, OF CONCENTRATED FLOW IN CHANNELS.

THE USE OF STONE CHECK DAMS IS NOT ANTICIPATED FOR THIS PROJECT.

1.4.7 CONSTRUCT PERMANENT CONTROLS

PERMANENT STORMWATER TREATMENT DEVICES SHALL BE INSTALLED AS SHOWN ON THE PLANS AND IN ACCORDANCE WITH PERMIT CONDITIONS.

1.4.8 STABILIZE EXPOSED SOILS DURING CONSTRUCTION

ALL AREAS OF DISTURBANCE MUST HAVE TEMPORARY STABILIZATION IN PLACE WITHIN 48 HOURS OF DISTURBANCE OR IN ACCORDANCE WITH THE CONSTRUCTION GENERAL PERMIT 3-9020 AUTHORIZATION.

SURFACE ROUGHENING OF ALL EXPOSED SLOPES, COMBINED WITH TEMPORARY MULCHING, SHALL BE UTILIZED ON A REGULAR BASIS. BIODEGRADABLE EROSION CONTROL MATTING OR AN EQUIVALENT SHALL BE USED TO STABILIZE ALL SLOPES STEEPER THAN 1:3.

THE FORECAST OF RAINFALL EVENTS SHALL TRIGGER IMMEDIATE PROTECTION OF EXPOSED SOILS.

1.4.9 WINTER STABILIZATION

VARIOUS MEASURES SPECIFIC TO WINTER MAY BE NECESSARY SHOULD THE PROJECT EXTEND INTO WINTER (OCTOBER 15 THROUGH APRIL 15). REFER TO THE LOW RISK SITE HANDBOOK FOR GUIDANCE.

1.4.10 STABILIZE SOIL AT FINAL GRADE

EXPOSED SOIL MUST BE STABILIZED WITHIN 48 HOURS OF REACHING FINAL GRADE.

SEED, MULCH, FERTILIZER AND LIME SHALL BE USED TO ESTABLISH PERMANENT VEGETATION. FOR SLOPES STEEPER THAN 1:3, BIODEGRADABLE EROSION CONTROL MATTING OR AN EQUIVALENT SHALL BE USED INSTEAD OF MULCH.

1.4.11 DE-WATERING ACTIVITIES

DISCHARGE FROM DEWATERING ACTIVITIES THAT FLOWS OFF OF THE CONSTRUCTION SITE MUST NOT CAUSE OR CONTRIBUTE TO A VIOLATION OF THE VERMONT WATER QUALITY STANDARDS.

TREATMENT OF DEWATERING COFFERDAM IS NOT ANTICIPATED.

1.4.12 INSPECT YOUR SITE

INSPECT THE PROJECT SITE BASED ON SPECIAL PROVISION REQUIREMENTS OR CONSTRUCTION GENERAL PERMIT AUTHORIZATION STIPULATIONS.

1.5 SEQUENCE AND STAGING

THIS SECTION WILL BE DEVELOPED BY THE CONTRACTOR USING THE GUIDANCE OUTLINED IN THE VTRANS EPSC PLAN CONTRACTOR CHECKLIST.

1.5.1 CONSTRUCTION SEQUENCE

1.5.2 OFF-SITE ACTIVITIES

IN ADDITION TO THE CONTRACTOR CHECKLIST ANY ACTIVITIES OUTSIDE THE CONSTRUCTION LIMITS SHALL FOLLOW SPECIFICATION 105.25- 105.29 OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION.

1.5.3 UPDATES

PROJECT NAME: FAIRFIELD

PROJECT NUMBER: BRO 1448(41)

FILE NAME: sl2j170erode+ails.dgn

PROJECT LEADER: R. YOUNG

DESIGNED BY: R. KLINEFELTER

EPSC NARRATIVE

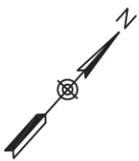
PLOT DATE: 18-AUG-2014

DRAWN BY: K. FRIEDLAND

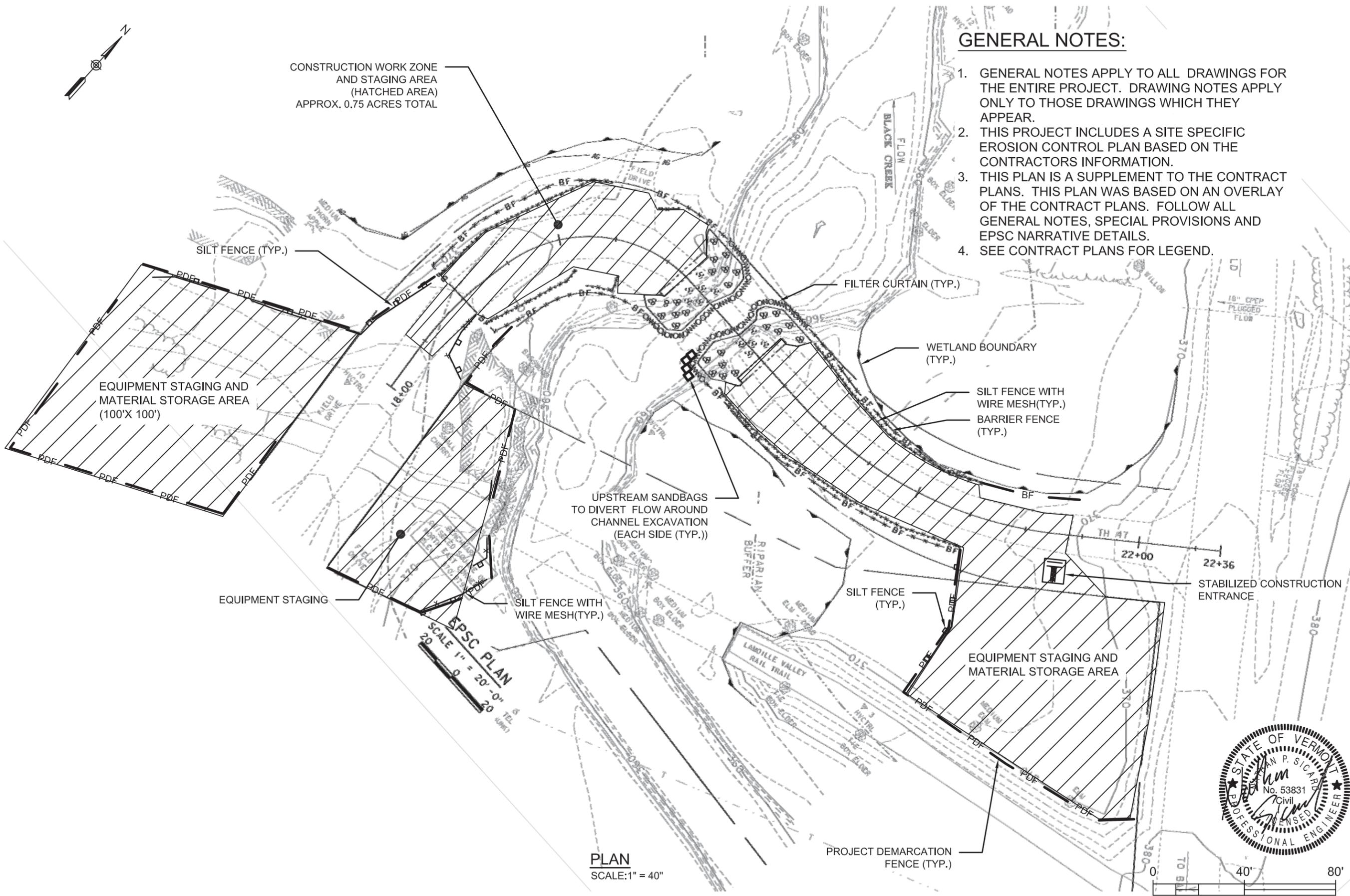
CHECKED BY: J. SALVATORI

SHEET 61 OF 69

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CONSTRUCTION WORK ZONE
AND STAGING AREA
(HATCHED AREA)
APPROX. 0.75 ACRES TOTAL



GENERAL NOTES:

1. GENERAL NOTES APPLY TO ALL DRAWINGS FOR THE ENTIRE PROJECT. DRAWING NOTES APPLY ONLY TO THOSE DRAWINGS WHICH THEY APPEAR.
2. THIS PROJECT INCLUDES A SITE SPECIFIC EROSION CONTROL PLAN BASED ON THE CONTRACTORS INFORMATION.
3. THIS PLAN IS A SUPPLEMENT TO THE CONTRACT PLANS. THIS PLAN WAS BASED ON AN OVERLAY OF THE CONTRACT PLANS. FOLLOW ALL GENERAL NOTES, SPECIAL PROVISIONS AND EPSC NARRATIVE DETAILS.
4. SEE CONTRACT PLANS FOR LEGEND.

EQUIPMENT STAGING AND
MATERIAL STORAGE AREA
(100'X 100')

EQUIPMENT STAGING

SILT FENCE WITH
WIRE MESH(TYP.)

UPSTREAM SANDBAGS
TO DIVERT FLOW AROUND
CHANNEL EXCAVATION
(EACH SIDE (TYP.))

FILTER CURTAIN (TYP.)

WETLAND BOUNDARY
(TYP.)

SILT FENCE WITH
WIRE MESH(TYP.)
BARRIER FENCE
(TYP.)

SILT FENCE
(TYP.)

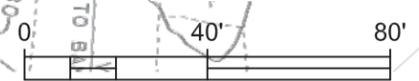
EQUIPMENT STAGING AND
MATERIAL STORAGE AREA

STABILIZED CONSTRUCTION
ENTRANCE

PROJECT DEMARCATION
FENCE (TYP.)

EPSC PLAN
SCALE 1" = 20'-0" (TEL. 20)

PLAN
SCALE: 1" = 40"



RUGGLES
ENGINEERING SERVICES, INC.
4880 MEMORIAL DRIVE, ST. JOHNSBURY, VT 05899
Civil Engineering - Site Permitting
Water, Sewer and Stormwater System Designs
JOB No. 15002

PREPARED FOR: **A.L. ST. ONGE CONTRACTORS, INC.**
Address: PO BOX 65, MONTGOMERY, VT 05470
PHASE I SITE SPECIFIC EROSION CONTROL PLAN
FAIRFIELD BRO 1448 (41)

REVISIONS	Date
No.	
Description	

Designed: NPS
Drawn: NPS
Checked: -
DATE: 1/12/15

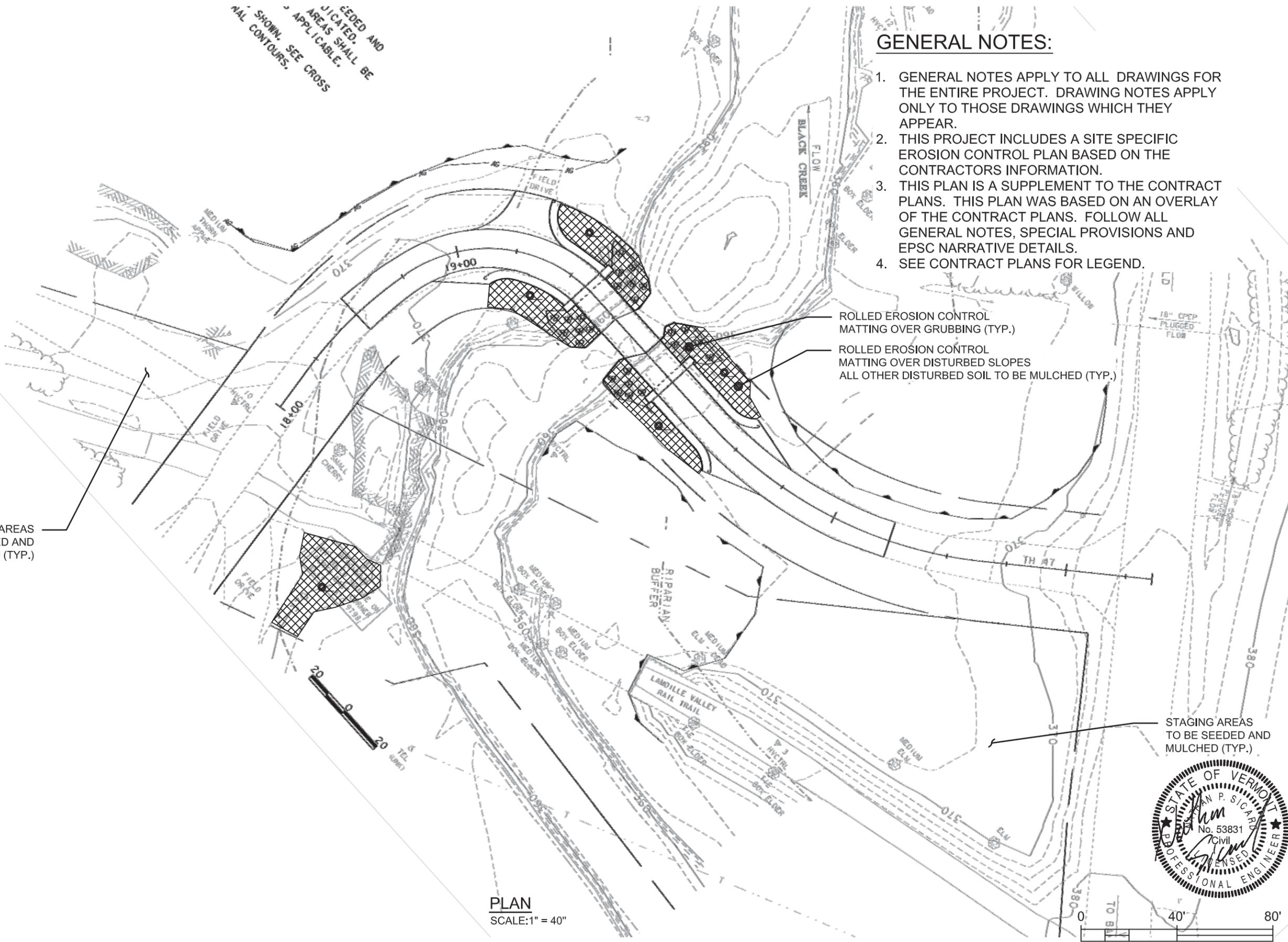
EPSC 1
Sheet of -

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SEEDING AND MULCHING AREAS SHALL BE INDICATED AND LOCATED. SEE CROSS SECTIONS FOR APPLICABLE AREAS.

STAGING AREAS TO BE SEEDING AND MULCHED (TYP.)



GENERAL NOTES:

1. GENERAL NOTES APPLY TO ALL DRAWINGS FOR THE ENTIRE PROJECT. DRAWING NOTES APPLY ONLY TO THOSE DRAWINGS WHICH THEY APPEAR.
2. THIS PROJECT INCLUDES A SITE SPECIFIC EROSION CONTROL PLAN BASED ON THE CONTRACTORS INFORMATION.
3. THIS PLAN IS A SUPPLEMENT TO THE CONTRACT PLANS. THIS PLAN WAS BASED ON AN OVERLAY OF THE CONTRACT PLANS. FOLLOW ALL GENERAL NOTES, SPECIAL PROVISIONS AND EPSC NARRATIVE DETAILS.
4. SEE CONTRACT PLANS FOR LEGEND.

ROLLED EROSION CONTROL MATTING OVER GRUBBING (TYP.)
 ROLLED EROSION CONTROL MATTING OVER DISTURBED SLOPES
 ALL OTHER DISTURBED SOIL TO BE MULCHED (TYP.)

STAGING AREAS TO BE SEEDING AND MULCHED (TYP.)

PLAN
SCALE: 1" = 40'

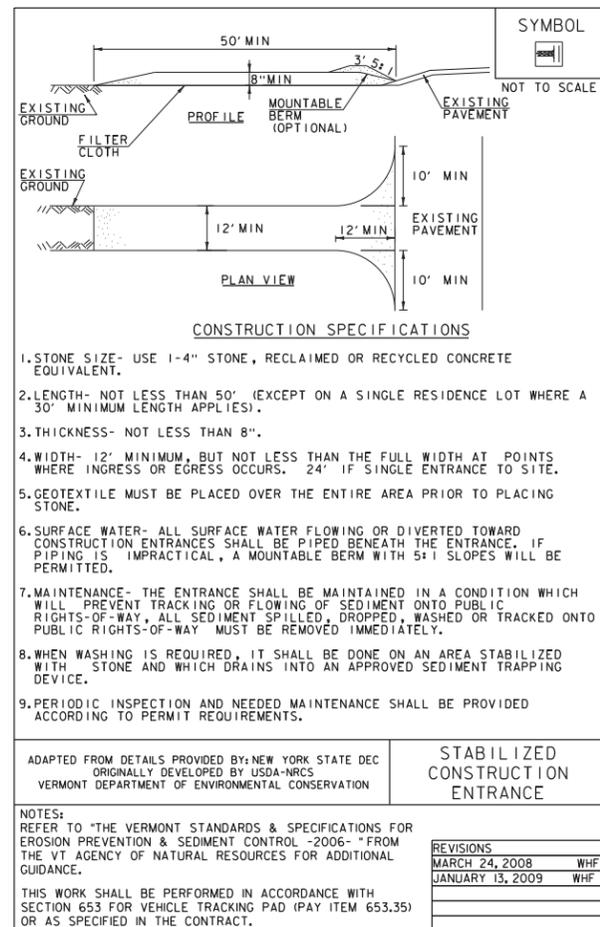
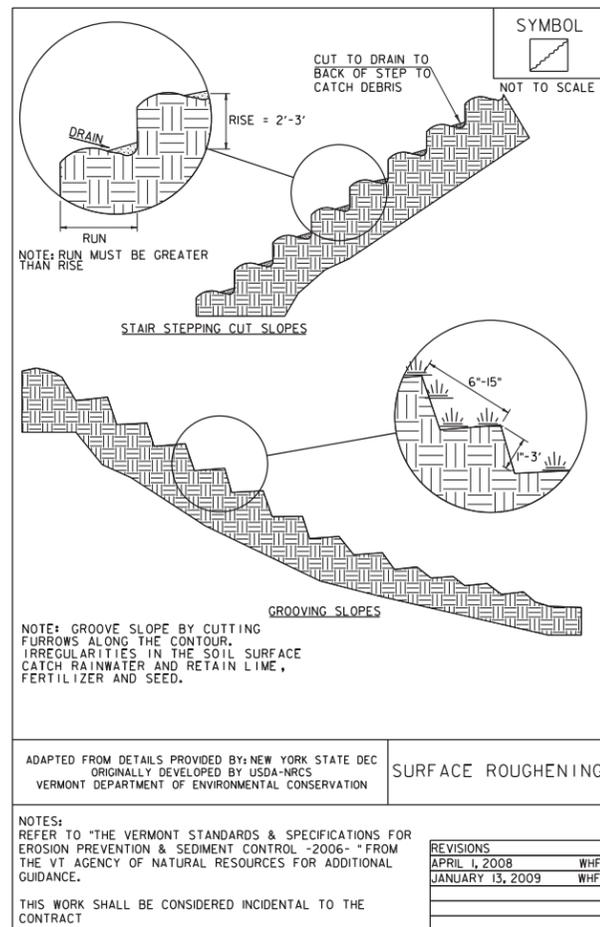
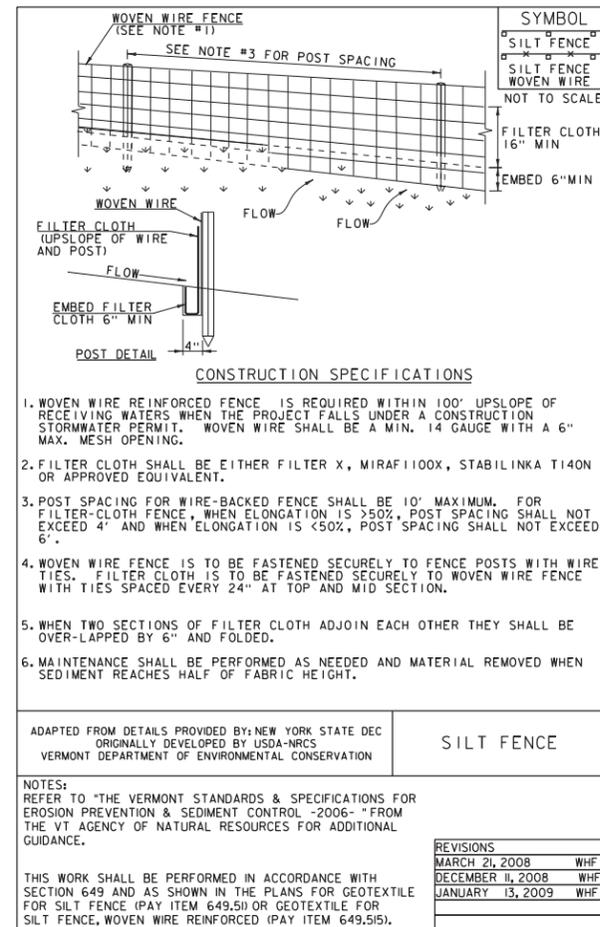
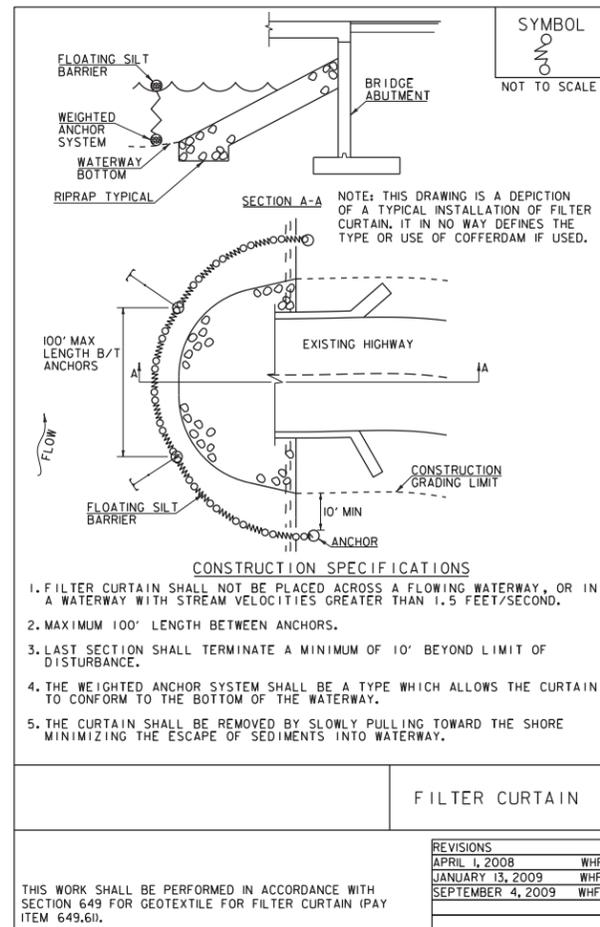
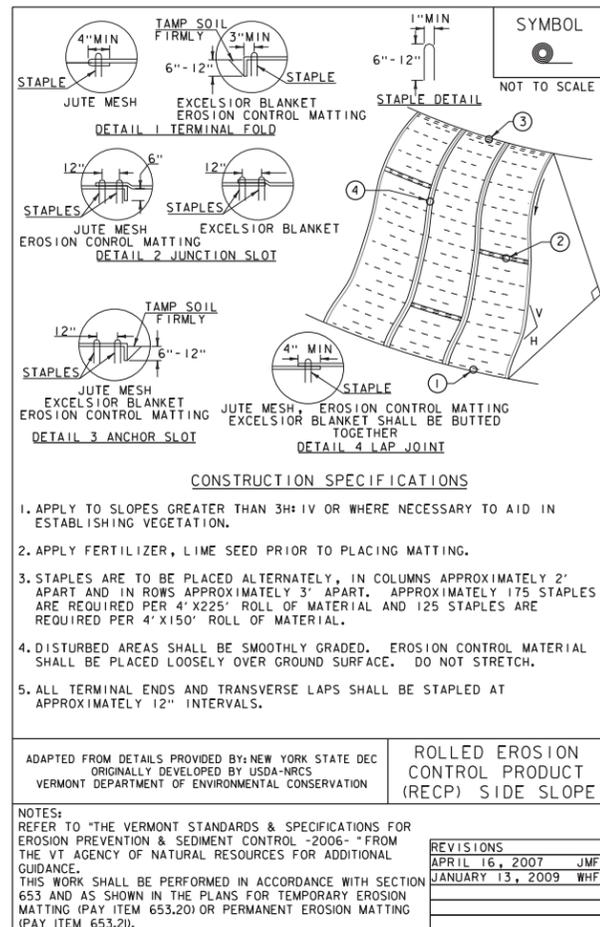


RUGGLES ENGINEERING SERVICES, INC.
 4880 MEMORIAL DRIVE ST. JOHNSBURY, VT 05819
 Civil Engineering - Site Permitting
 Water, Sewer and Stormwater System Designs
 802-748-5898
 JOB No. 15002

PREPARED FOR: **A.L. ST. ONGE CONTRACTORS, INC.**
 PO BOX 65, MONTGOMERY, VT 05470
 Address: _____
 Date: _____
FINAL - SITE SPECIFIC EROSION CONTROL PLAN
FAIRFIELD BRO 1448 (41)

REVISIONS	No.	Description	Date

Designed: NPS
 Drawn: NPS
 Checked: -
 DATE: 1/12/15



VAOT RURAL AREA MIX					
LBS/AC		NAME		GERM %	PURITY %
% WEIGHT	BROADCAST	HYDROSEED			
37.5%	22.5	45	CREeping RED FESCUE	35%	98%
37.5%	22.5	45	TALL FESCUE	30%	95%
5.0%	3	6	RED TOP	30%	95%
15.0%	9	18	BIRDSFOOT TREFOIL	35%	98%
5.0%	3	6	ANNUAL RYE GRASS	35%	95%
100%	60	120			

VAOT URBAN AREA MIX					
LBS/AC		NAME		GERM %	PURITY %
% WEIGHT	BROADCAST	HYDROSEED			
42.5%	34	68	CREeping RED FESCUE	85%	98%
10.0%	8	16	PERENNIAL RYE GRASS	90%	95%
42.5%	34	68	KENTUCKY BLUE GRASS	85%	85%
5.0%	4	8	ANNUAL RYE GRASS	85%	95%
100%	80	160			

SOIL AMENDMENT GUIDANCE			
FERTILIZER		LIME	
BROADCAST	HYDROSEED	BROADCAST	HYDROSEED
10-20-10	FOLLOW	PELLETIZED	FOLLOW
500 LBS/AC	MANUFACTURER	2 TONS/AC	MANUFACTURER

CONSTRUCTION GUIDANCE

1. RURAL SEED MIX: USE AS INDICATED IN THE PLANS AND/OR FOR ALL ESTABLISHED UPLAND (NON WETLAND) AREAS DISTURBED BY THE CONTRACTOR.
2. URBAN SEED MIX: USE AS INDICATED IN THE PLANS AND/OR FOR ALL ESTABLISHED LAWN AREAS DISTURBED BY THE CONTRACTOR.
3. ALL SEED MIXTURES: SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY WEIGHT AND SHALL BE FREE OF ALL NOXIOUS SEED.
4. FERTILIZER AND LIMESTONE: SHALL FOLLOW RATES SHOWN ON PLAN OR AS DIRECTED BY THE ENGINEER.
5. HAY MULCH: TO BE PLACED ON EARTH SLOPES AT THE RATE OF 2 TONS/ACRE, ACHIEVE 90% GROUND COVER OR AS DIRECTED BY THE ENGINEER.
6. TOPSOIL: TO BE USED WITH SEED AS INDICATED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.
7. HYDROSEEDING: ALTHOUGH GUIDANCE IS GIVEN ABOVE THE SITE CONDITIONS AND THE TYPE OF HYDROSEED WILL ULTIMATELY DICTATE THE AMOUNTS AND TYPES OF SOIL AMENDMENTS TO BE APPLIED
8. TURF ESTABLISHMENT: PLACING SEED, FERTILIZER, LIME AND MULCH PRIOR TO SEPTEMBER 15 AND AFTER APRIL 15 CAN BETTER ENSURE A VIGOROUS GROWTH OF GRASS.

ADAPTED FROM VTRANS TECHNICAL LANDSCAPE MANUAL FOR ROADWAYS AND TRANSPORTATION FACILITIES

TURF ESTABLISHMENT

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 651 FOR SEED (PAY ITEM 651.15)

REVISIONS	
JUNE 23, 2009	WHF
JANUARY 15, 2010	WHF
FEBRUARY 16, 2011	WHF

PROJECT NAME: FAIRFIELD
PROJECT NUMBER: BRO 1448(41)

FILE NAME: sl2j170erode tails.dgn
PROJECT LEADER: R. YOUNG
DESIGNED BY: R. KLINEFELTER
EPSC DETAILS

PLOT DATE: 18-AUG-2014
DRAWN BY: K. FRIEDLAND
CHECKED BY: J. SALVATORI
SHEET 63 OF 69