MODIFICATIONS TO

CONTRACT EROSION PREVENTION

AND

SEDIMENT CONTROL (EPSC) PLAN

FOR

FAIRFIELD BRF 0281 (25)

(State of Vermont, Agency of Transportation
Town Highway 1, South Road, Bridge 14, Fairfield, VT)

FOR

A.L. St. Onge Contractor, Inc.

PO BOX 65
MONTGOMERY, VT 05470

January, 2015

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 29 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 will be installed to identify the limits of disturbance. Temporary Stabilized Construction Entrances are not proposed since the work area will be a stabilized paved road surface not open to public traffic. Any sediment produced from tracking 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. A limited need for sediment control measures are expected since excavated material will need to be loaded out in trucks due to limited work areas. 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

Channel excavation will begin on the southerly side of the bridge as shown on the schedule. Prior to beginning channel excavation, a filter curtain and sand bags will be used to segregate the work area from stream flow. Work is planned during normal stream flow conditions. The main channel flow will be along the northerly bank of the stream. The filter curtain will be folded for shallow stream depths. 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.

Channel excavation for the northern abutment will also require sand bags to divert the flow to the southerly side of the stream channel to limit flow into the work area.

1.5.1.4. Bridge Construction.

Pile foundation and abutment construction will be installed approximately 1 foot above ordinary high water. Additional Silt fence will be installed around the work area if rain is

anticipated during the short disturbance period. Temporary erosion protection for the work area will need to be evaluated if a storm event is anticipated which could flood the work area.

1.5.1.5. Abutment backfill.

Once abutment construction is complete the remaining riprap and grubbing material will be installed. Grubbing cover will also include seed, mulch and erosion mating 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 hault 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.

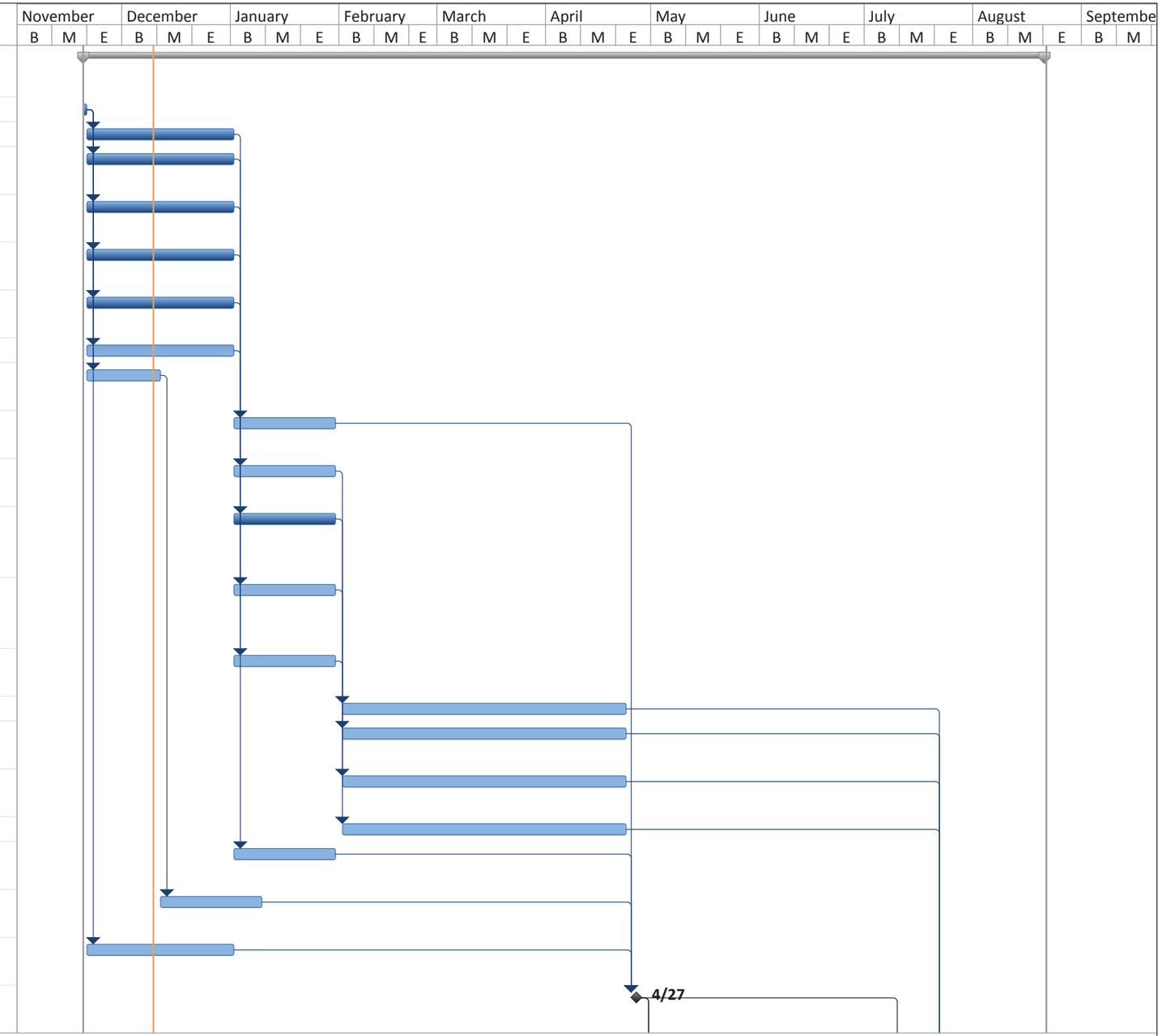
2 Erosion Prevention and Sediment Control Plan

See Appendix C – PLANS.

APPENDIX A – SCHEDULES

1. Contractor CPM Schedule – PREPARED BY CONTRACTOR.

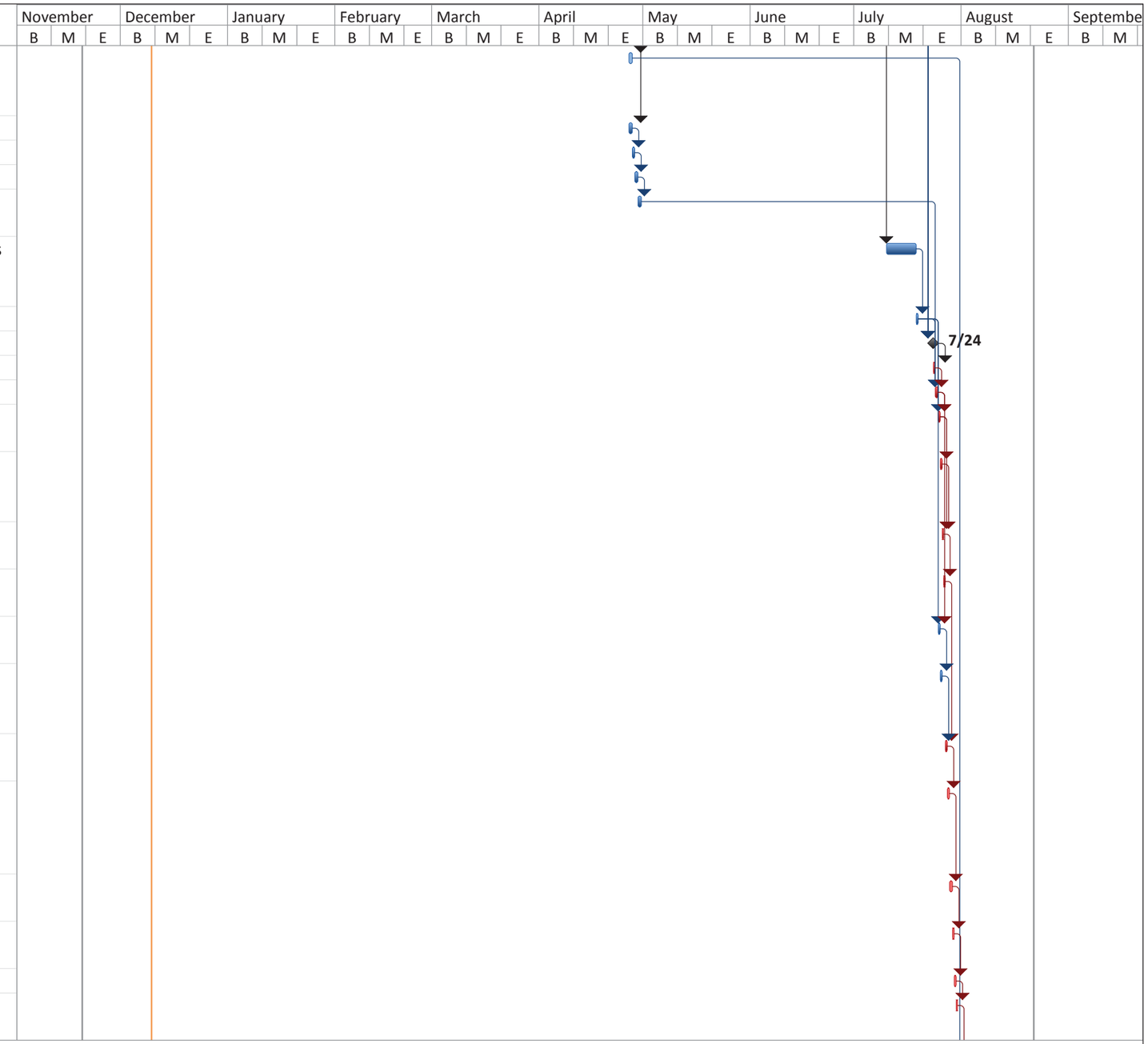
ID		Task Mode	Task Name	Duration	Start	Finish	Predecessors
0			**Fairfield BRF 0281 (25) 12.8.14**	**247.63 days**	**Thu 11/20/14**	**Fri 8/21/15**	
1			Notice To Proceed	1 day	Thu 11/20/14	Thu 11/20/14	
2			Develop Schedule	30 days	Fri 11/21/14	Thu 1/1/15	1
3			Develop Precast Shop Drawings	30 days	Fri 11/21/14	Thu 1/1/15	1
4			Develop Bridge Rail Shop Drawings	30 days	Fri 11/21/14	Thu 1/1/15	1
5			Develop Structural Steel Shop Drawings	30 days	Fri 11/21/14	Thu 1/1/15	1
6			Develop Bearings Design	30 days	Fri 11/21/14	Thu 1/1/15	1
7			Develop EPSC Plan	30 days	Fri 11/21/14	Thu 1/1/15	1
8			Develop Traffic Control Plan	15 days	Fri 11/21/14	Thu 12/11/14	1
9			Submit Schedule For Review	21 days	Fri 1/2/15	Fri 1/30/15	2
10			Submit Precast Shop Drawings For Review	21 days	Fri 1/2/15	Fri 1/30/15	3
11			Submit Bridge Rail Shop Drawings For Review	21 days	Fri 1/2/15	Fri 1/30/15	4
12			Submit Structural Steel Shop Drawings For Review	21 days	Fri 1/2/15	Fri 1/30/15	5
13			Submit Bearings For Review	21 days	Fri 1/2/15	Fri 1/30/15	6
14			Precast Fabrication	60 days	Mon 2/2/15	Fri 4/24/15	10
15			Bridge Rail Fabrication	60 days	Mon 2/2/15	Fri 4/24/15	11
16			Structural Steel Fabrication	60 days	Mon 2/2/15	Fri 4/24/15	12
17			Bearings Fabrication	60 days	Mon 2/2/15	Fri 4/24/15	13
18			Submit EPSC Plan For Review	21 days	Fri 1/2/15	Fri 1/30/15	7
19			Submit Traffic Control Plan For Review	21 days	Fri 12/12/14	Fri 1/9/15	8
20			Submit Off Site Activities	30 days	Fri 11/21/14	Thu 1/1/15	1
21			Begin Fairfield BRF Activities	0 days	Mon 4/27/15	Mon 4/27/15	18,19,20,9



Project: Fairfield BRF 0281 (25) 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	

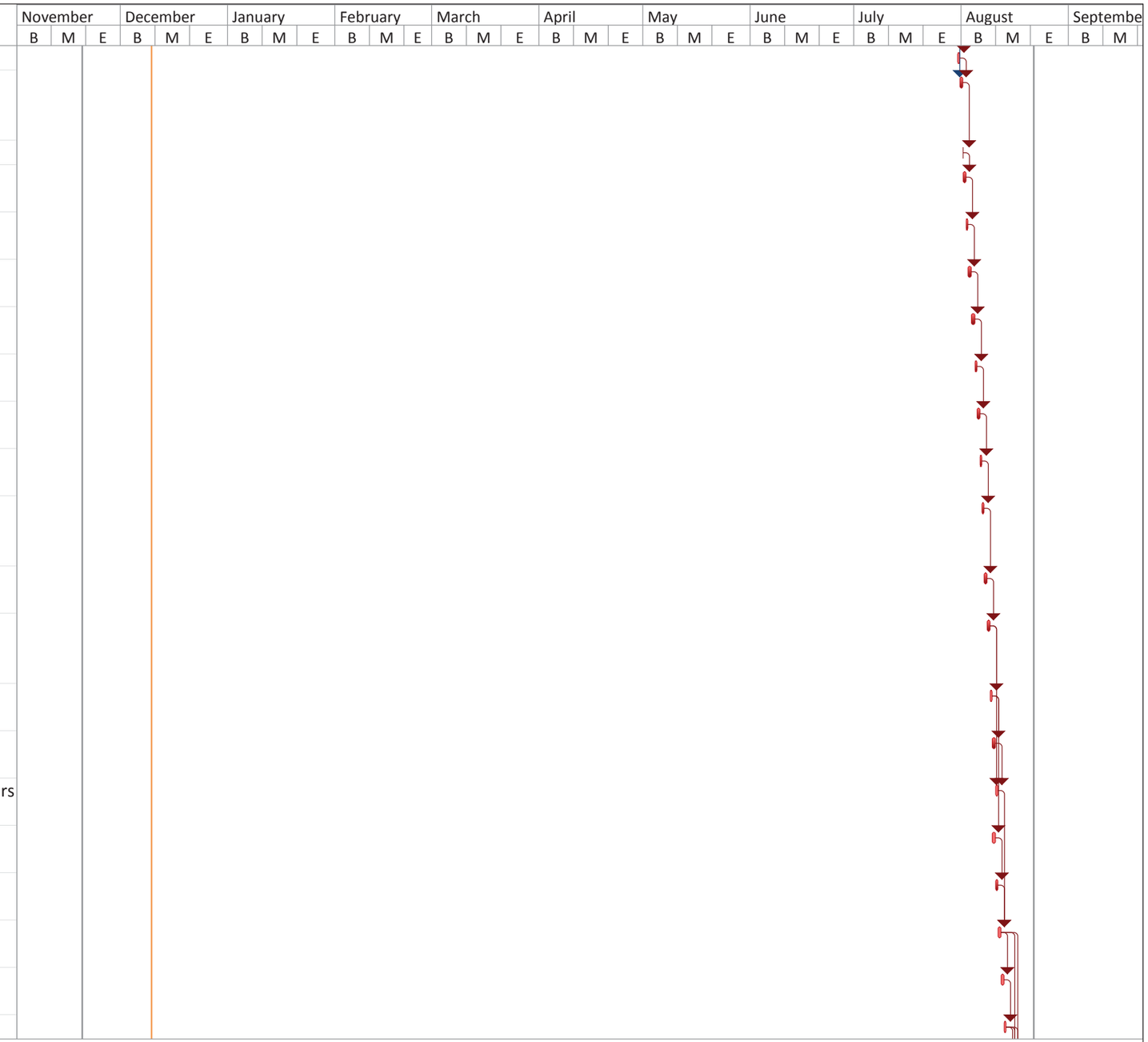
ID		Task Mode	Task Name	Duration	Start	Finish	Predecessors
22			Submit Rapid Set Concrete Design and Grouts	1 day	Mon 4/27/15	Mon 4/27/15	21
23			Install TCP	1 day	Mon 4/27/15	Mon 4/27/15	21
24			Cut trees and Brush	1 day	Tue 4/28/15	Tue 4/28/15	23
25			Install Barrier Fence	1 day	Tue 4/28/15	Wed 4/29/15	24
26			Install Woven Wire Silt Fence	1 day	Wed 4/29/15	Thu 4/30/15	25
27			Partial Mobilize Material and Equipment	12 days	Fri 7/10/15	Sun 7/19/15	21FS+60 days
28			Install Filter Urtain	1 day	Sun 7/19/15	Sun 7/19/15	27
29			Begin Bridge Closure	0 days	Fri 7/24/15	Fri 7/24/15	14,15,16,17
30			Finalize TCP signage	4 hrs	Fri 7/24/15	Fri 7/24/15	29
31			Removal Of Structure	12 hrs	Fri 7/24/15	Sat 7/25/15	30,26,28
32			Channel Excavation Abutment 1	12 hrs	Sat 7/25/15	Sat 7/25/15	28,31
33			Install Geotextile Under Stone Fill and install Stone Fill	8 hrs	Sun 7/26/15	Sun 7/26/15	32
34			Structure Excavation Abutment 1	4 hrs	Sun 7/26/15	Sun 7/26/15	32,33
35			Build in place Pile Driving Template	8 hrs	Sun 7/26/15	Mon 7/27/15	34
36			Channel Excavation Abutment 2	12 hrs	Sat 7/25/15	Sat 7/25/15	28,31
37			Install Geotextile Under Stone Fill and install Stone Fill	8 hrs	Sun 7/26/15	Sun 7/26/15	36
38			Build in place Pile Driving Template	8 hrs	Mon 7/27/15	Mon 7/27/15	35,37
39			Drive Piles #1 both Abutments while performing Dynamic Load Testing	12 hrs	Mon 7/27/15	Tue 7/28/15	38
40			Drive Piles 2,3,&4 both Abutments	12 hrs	Tue 7/28/15	Wed 7/29/15	39
41			Prepare Base Abutment 1 for PCU	8 hrs	Wed 7/29/15	Wed 7/29/15	40
42			Set Abutment 1 PCU	8 hrs	Thu 7/30/15	Thu 7/30/15	41
43			Prepare Base Abutment 2 for PCU	8 hrs	Thu 7/30/15	Fri 7/31/15	42



Project: Fairfield BRF 0281 (25) 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	

ID		Task Mode	Task Name	Duration	Start	Finish	Predecessors
44			Set Abutment 2 PCU	8 hrs	Fri 7/31/15	Fri 7/31/15	43
45			Place Rapid Set Concrete in Pile Cavitys	12 hrs	Fri 7/31/15	Sat 8/1/15	44,22
46			Install Bearing Pads	2 hrs	Sat 8/1/15	Sat 8/1/15	45
47			Install Prestressed Slab Units 3	12 hrs	Sat 8/1/15	Sun 8/2/15	46
48			Install Prestressed Slab Unit 4	12 hrs	Sun 8/2/15	Mon 8/3/15	47
49			Install Prestressed Slab Units 1	12 hrs	Mon 8/3/15	Mon 8/3/15	48
50			Install Prestessed Slab Unit 2	12 hrs	Mon 8/3/15	Tue 8/4/15	49
51			Install Prestressed Slab Units 5	12 hrs	Tue 8/4/15	Wed 8/5/15	50
52			Install Prestressed Slab Unit 6	12 hrs	Wed 8/5/15	Thu 8/6/15	51
53			Grout in Anchor Bolts with 10KSI Grout	12 hrs	Thu 8/6/15	Fri 8/7/15	52
54			Prepare Base For Precast Approach Slab #1 & #2	8 hrs	Fri 8/7/15	Fri 8/7/15	53
55			Set Precast Appproach Slab Units	12 hrs	Fri 8/7/15	Sat 8/8/15	54
56			Place Rapid Set Concrete Aproach Slab Closure3	12 hrs	Sat 8/8/15	Sun 8/9/15	55
57			Common Excavation 15+75 - 16+50	12 hrs	Sun 8/9/15	Mon 8/10/15	56
58			Place Geotextile Road Separator	12 hrs	Mon 8/10/15	Mon 8/10/15	57
59			Place Subbase Materal	12 hrs	Mon 8/10/15	Tue 8/11/15	58,56FS+12 hrs
60			Common Excavation 17+25 - 18+00	12 hrs	Mon 8/10/15	Mon 8/10/15	57
61			Place Geotextile Road Separator	12 hrs	Mon 8/10/15	Tue 8/11/15	60
62			Place Subbase Material	12 hrs	Tue 8/11/15	Wed 8/12/15	59,61
63			Place Stone Fill Type I Approach 1&2	12 hrs	Wed 8/12/15	Thu 8/13/15	62
64			Install Bridge Rail	12 hrs	Thu 8/13/15	Fri 8/14/15	63



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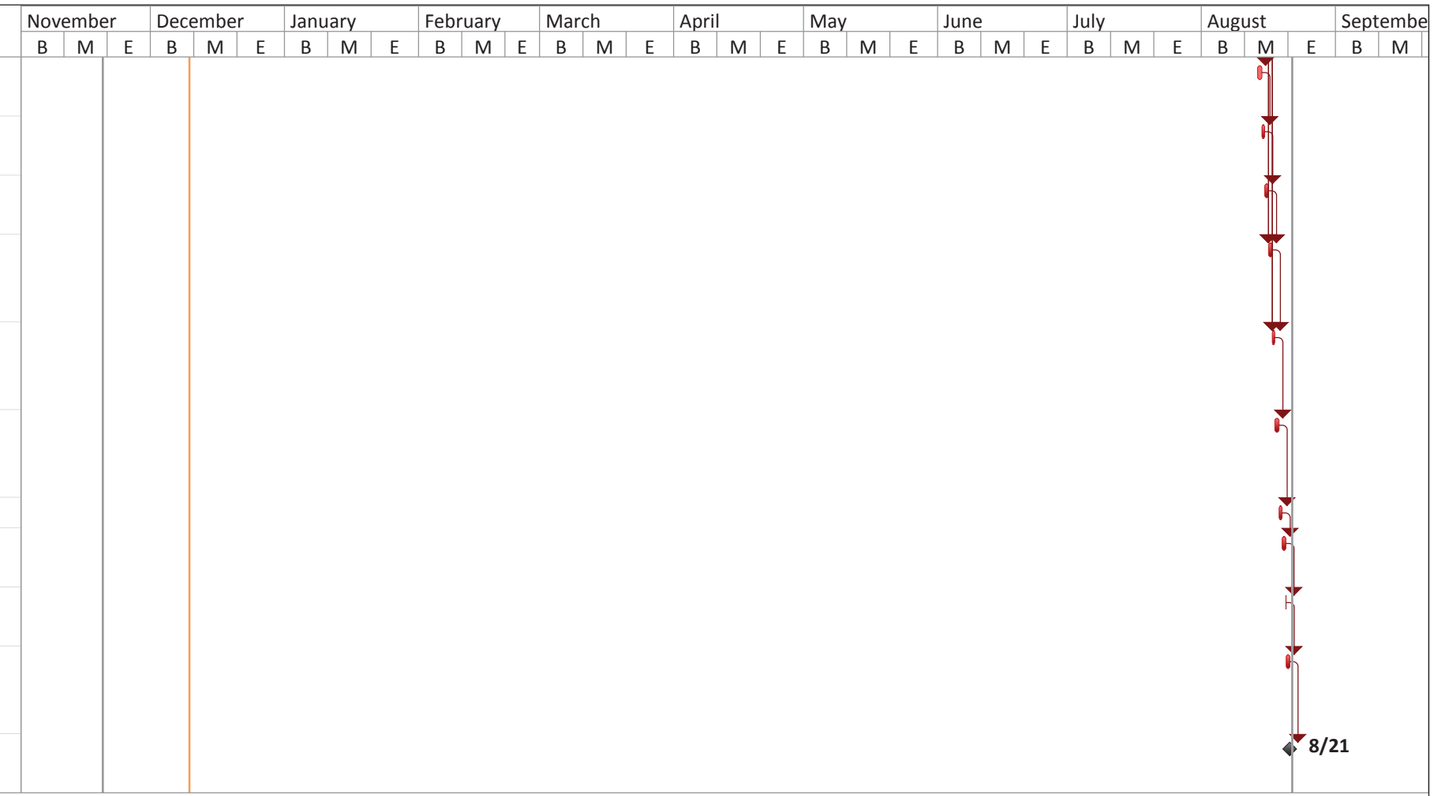
Split		External Tasks		Inactive Summary		Manual Summary		Critical	
Milestone		External Milestone		Manual Task		Start-only		Critical Split	
Summary		Inactive Task		Duration-only		Finish-only		Progress	

ID		Task Mode	Task Name	Duration	Start	Finish	Predecessors
65			Cold Plane Approaches	12 hrs	Fri 8/14/15	Fri 8/14/15	64
66			Pave Type lIS Approach #1	12 hrs	Fri 8/14/15	Sat 8/15/15	65
67			Place Type lIS Approach #2	12 hrs	Sat 8/15/15	Sun 8/16/15	66
68			Install Guardrail Approach Section Aprroach #1	12 hrs	Sun 8/16/15	Mon 8/17/15	67,62,64
69			Install Guardrail Approach Section Aprroach #2	12 hrs	Mon 8/17/15	Tue 8/18/15	68,62,64
70			Apply Membrane Waterproofing Sprayed Applied	12 hrs	Tue 8/18/15	Tue 8/18/15	69
71			Pave Type lVS	12 hrs	Tue 8/18/15	Wed 8/19/15	70
72			Apply yellow Paint Pavement Markings	12 hrs	Wed 8/19/15	Thu 8/20/15	71
73			Install New Type A Signs	2 hrs	Thu 8/20/15	Thu 8/20/15	72
74			Place Grubbing Material and Hay Mulch	12 hrs	Thu 8/20/15	Fri 8/21/15	73
75			End Bridge Closure Period	0 days	Fri 8/21/15	Fri 8/21/15	74



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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 SUBMITTAL

VTrans Working to Get You There

- **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 (c) of the VTrans Standard Specifications For Construction) for review once the application is administratively complete.**

- **SUBMITTAL INFORMATION**

Project Name/District: Fairfield BRF 0281(25) Fairfield BRO 1448(41) **Contractor/District Tech:** A.L. St. Onge.

Contact: Carl Gleason **Phone:** 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): Field Office location

Material: Type (asphalt, concrete, earthen, etc.) Office trailer Quantity (yds^3) Ø

Total Area of Land Disturbance (sq ft) Ø additional Pasture

Additional Info: Field Office trailer remains in same location @ Fairfield BRO 1448(38)

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

Name: Magnan Brothers Dairy (Print Name) **Address:** Chester A Arthur Rd **Phone:** _____

☒ Private Residential/Commercial ☐ Town/State Owned Facility ☐ Other

Additional Info: _____

Are there other users of this site? ☒ Yes ☐ No

Known past uses: A.L. St. Onge Year 2014 Fairfield BRO 1448(38) Project, same set up

☐ 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 T Magnan (Landowner/Facility Manager Signature), warrant that the information in the above permit application is accurate and agree to the use of the proposed area by A.L. St. Onge (Name of Contractor) 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: Dec 2, 2014

This clearance is for the Natural and Cultural Resources Only.

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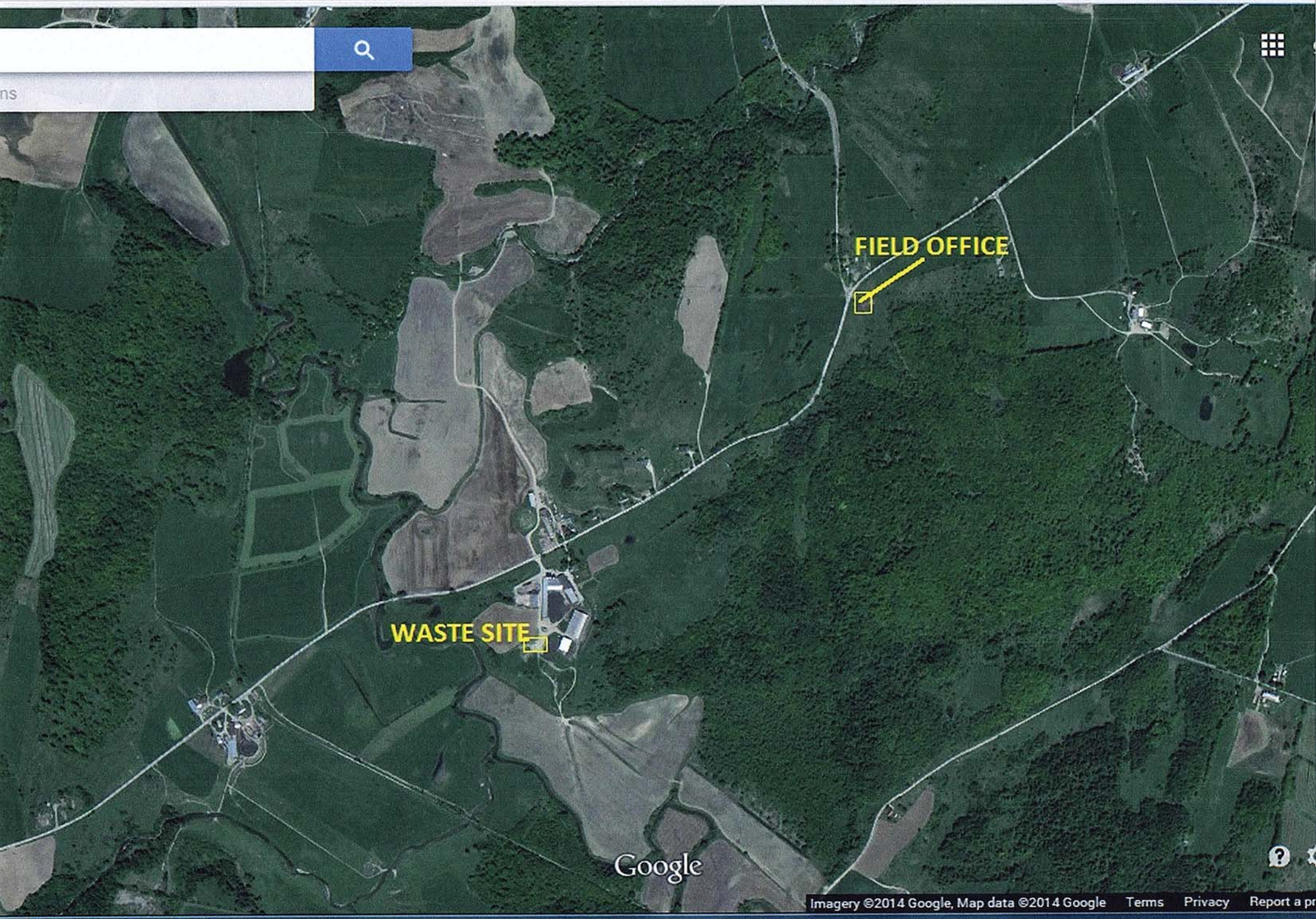

N
Pasture
Not to Scale
50'
100'
Trailer
To East Fairfield
Chester A Arthur Rd
To Fairfield Center
Wanzer Rd

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.

Important farmland classification: Statewide	Land capability: 3 w	Vermont Agricultural Value Group: 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			
Soil name	Land use	Rating	Reason **
Westbury	Dwellings with basements:	Very limited	Depth to saturated zone
Westbury	Pond reservoir areas:	Somewhat limited	Seepage

AGRICULTURAL YIELD DATA	
Crop name	Yield / acre
Grass-legume hay	3 Tons
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		

OFF-SITE ACTIVITY SUBMITTAL

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- **SUBMITTAL INFORMATION**

Project Name/District: Fairfield BRF 028(25) ~~Fairfield BRO 1448(41)~~ **Contractor/District Tech:** A.L. St. Onge

Contact: Carl Gleason **Phone:** 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, earthen, etc.) Earthen Quantity (yds^3) 1400 cy +-

Total Area of Land Disturbance (sq ft) 15000 sq.ft +/-

Additional Info: Waste Area remains @ the farm site - same as Fairfield BRO 1448(38)

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

Name: Magnan Brother's 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 BRO 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

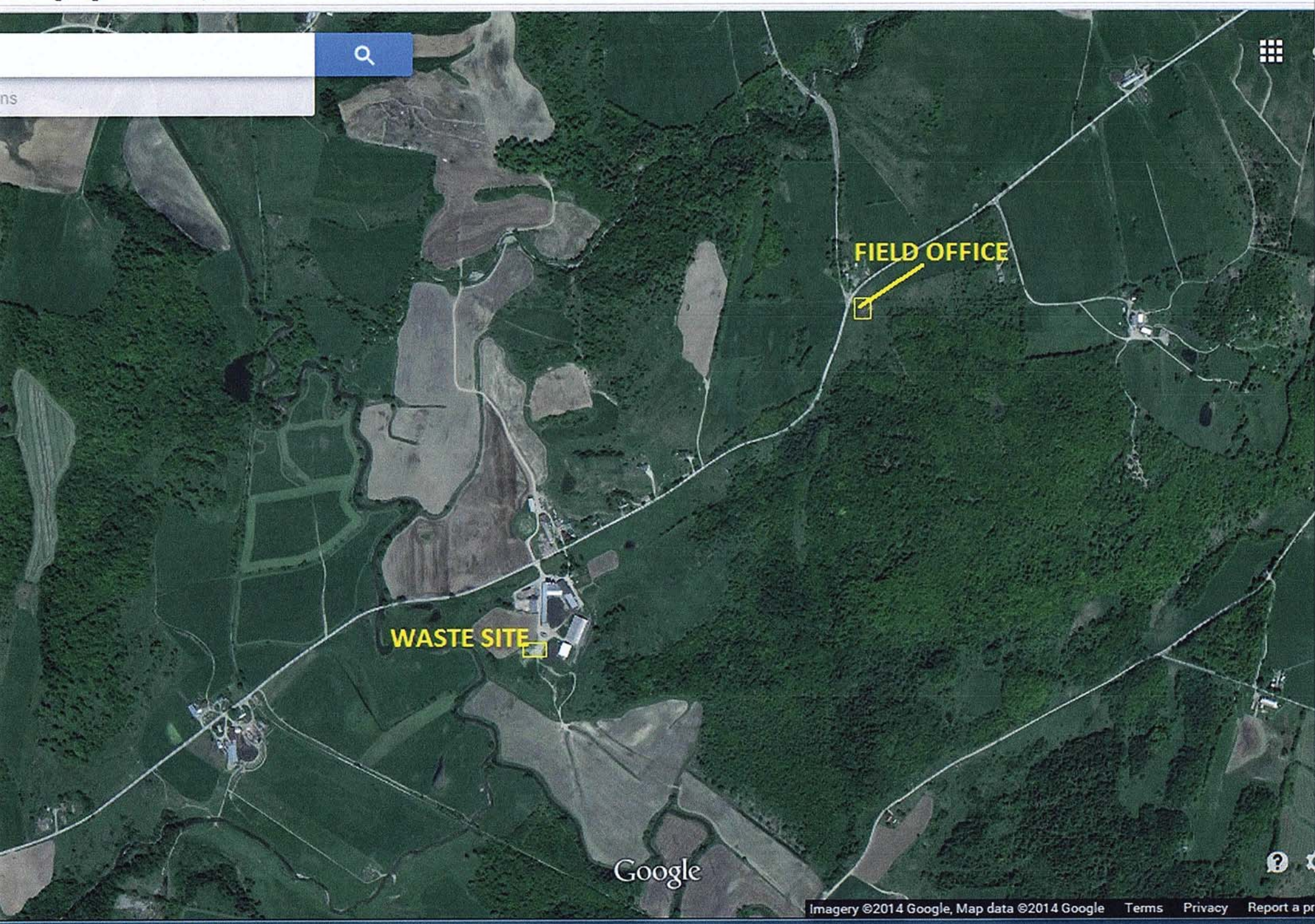
to the use of the proposed area by A.L. St. Onge as shown on the attached sketch. If acting as the agent of
Name of Contractor

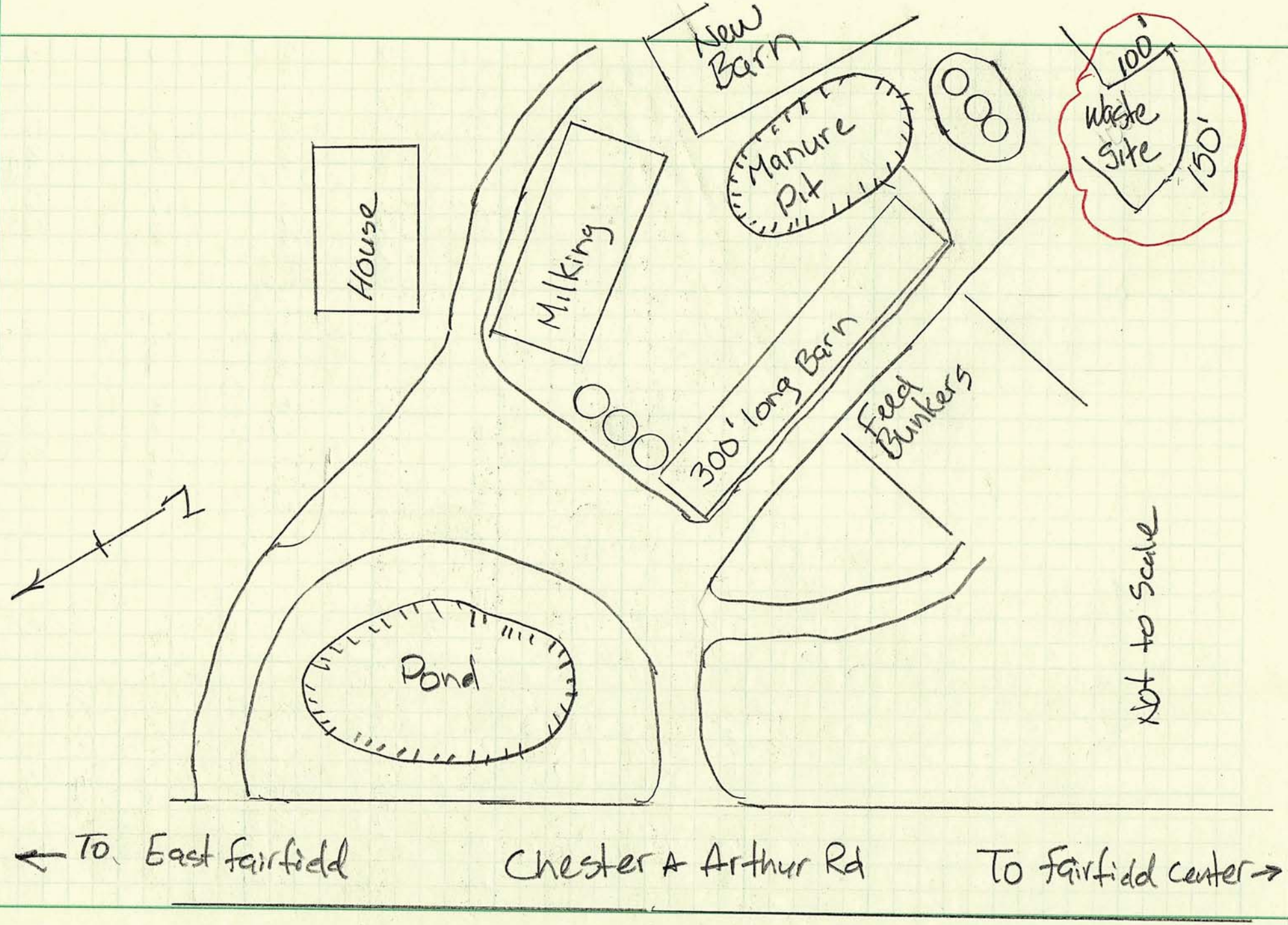
the Landowner, I warrant (1) that the Landowner has the full right, power, and authority to authorize the proposed use, (2) that I am authorized to act as the Landowner's agent, and (3) that my authority to act as the Landowner's agent has not been revoked.

Date: Dec 2, 2014

This clearance is for the Natural and Cultural Resources Only.

www.google.com/maps/@44.822331,-72.9130528,2324m/data=!3m1!1e3




New Barn
100'
waste site
150'
Manure Pit
House
Milking
300' long Barn
Feed Bunkers
Pond
N
Not to Scale
← To East fairfield
Chester A Arthur Rd
To fairfield center →

Inspection Forms.

VTrans Vermont Agency of Transportation	EPSC Plan Inspection Report (Non-Jurisdictional and Low Risk Projects)	
Project Name:	**Date:**	**Time Since Last Storm:**
Inspector:	**On-Site Coordinator:** (signature required)	

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 *Authorization to Discharge* 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 < ½ height of measure					
Diversion					
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.

Vermont Agency of Transportation

EPSC Plan Inspection Report (Non-Jurisdictional and Low Risk Projects)

Measure Inspected	Y	N	STA/Off	Corrective Action	Date Taken
Additional Measures					
Discharges Noted					

* If there is a discharge of visibly discolored stormwater from the construction site to waters of the state, the On-Site Plan Coordinator shall inform the Resident Engineer and take corrective action and report the discharge in accordance with Section 6.1 of Permit 3-9020.

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 14 IN ITS ENTIRETY. BRIDGE 14 WILL BE REPLACED WITH A NEW STRUCTURE, SPANNING 44 FEET OVER THE FAIRFIELD RIVER, ON NEW ABUTMENTS ALONG THE EXISTING ALIGNMENT. BRIDGE 14 IS LOCATED IN THE TOWN OF FAIRFIELD, ON TOWN HIGHWAY 1, APPROXIMATELY 2.5 MILES SOUTH OF THE INTERSECTION OF VT 36.

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 0.24 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 BUFFERED BY FARMLAND, WITH FORESTED AREAS NEARBY. TOWN HIGHWAY 1 IS THE ONLY ROADWAY WITHIN THE PORJECT SITE. TOWN HIGHWAYS 3, 61, AND 62 ARE ALL NEARBY THE PROJECT SITE. THERE ARE NO RESIDENCES NEAR THE PROJECT.

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

THE FAIRFIELD RIVER IS THE ONLY WATER SOURCE ON THE PROJECT SITE. THE RIVER IS CLASSIFIED AS INCISED AND ALLUVIAL. THE STREAM BED CONSISTS OF SILT, SAND AND GRAVEL. THE TRIBUTARY AREA AT THE BRIDGE IS 7.9 MILES^2.

1.2.3 VEGETATION

THE VEGETATION IN THE PROJECT AREA CONSISTS OF SOFTWOOD TREES AND UNDERGROWTH AS WELL AS 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 3 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. THE SOIL ON THE PROJECT SITE IS WINOOSKI SILT LOAM, 0% TO 3% SLOPES, "K FACTOR" = 0.49. THE SOIL IS CONSIDERED NOT HIGHLY ERODIBLE. NEAR THE SOUTHERN EDGE OF THE PLAN LIMITS THE SOIL IS WINDSOR LOAMY FINE SAND, 3% TO 8% SLOPES, "K FACTOR" = 0.17. NEAR THE NORTHERN EDGE OF THE PLAN LIMITS THE SOIL IS BINGHAMVILLE SILT LOAM, 0% TO 2% SLOPES, "K FACTOR" = 0.49. BOTH OF THESE SOILS ARE 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: YES, ARCHAEOLOGY TO THE NORTHEAST AND SOUTHEAST OF THE PROJECT.
PRIME AGRICULTURAL LAND: NO
THREATENED AND ENDANGERED SPECIES: NO
WATER RESOURCE: FAIRFIELD RIVER.
WETLANDS: YES, TO THE NORTHEAST AND SOUTHWEST OF THE PROJECT.

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.

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. THERFORE 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 EROSIVE POTENTIAL, OF CONCENTRATED FLOW IN CHANNELS.

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

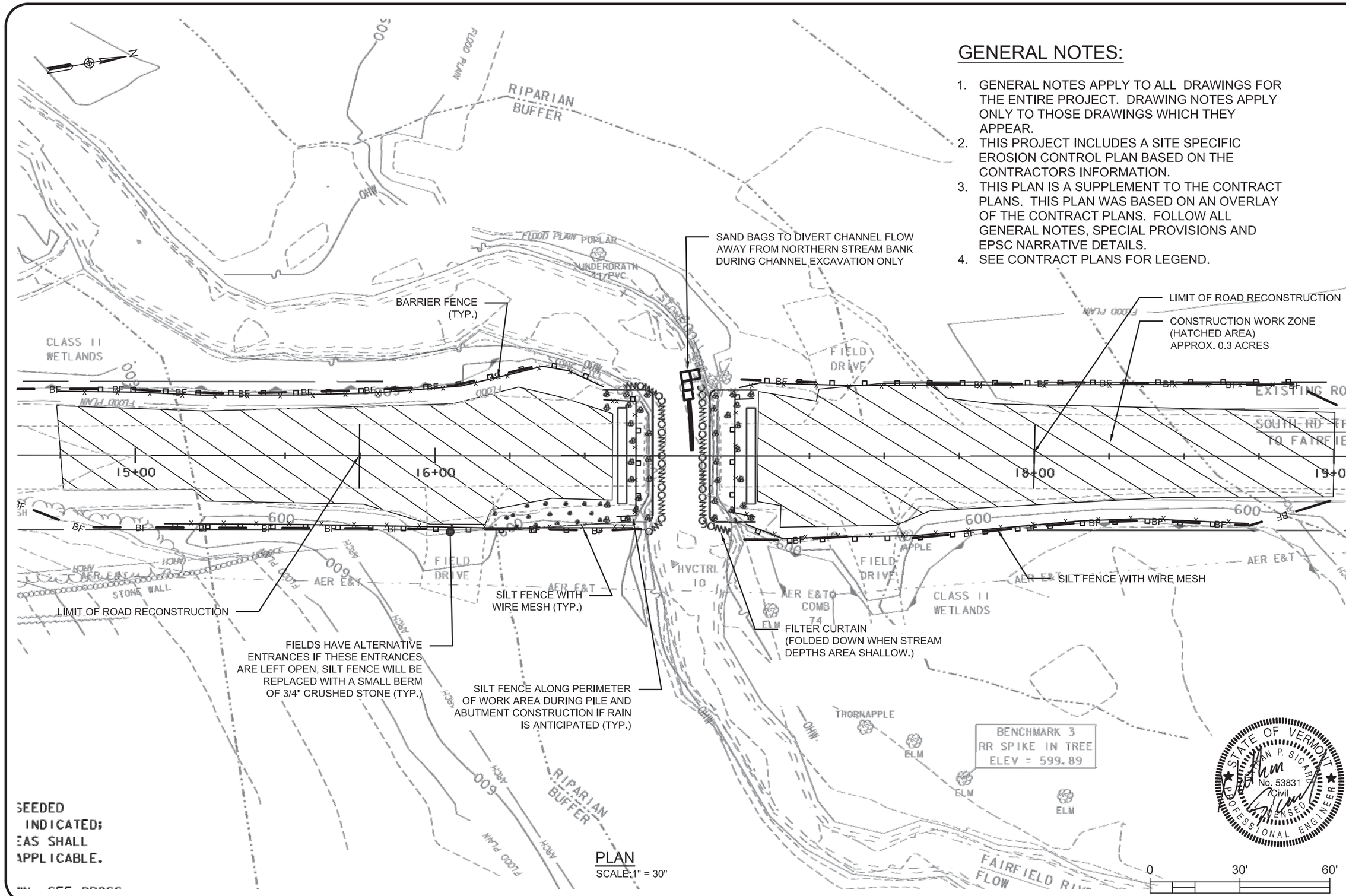
1.5.2 OFF-SITE ACTIVITIES

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

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.



SEEDED
INDICATED;
EAS SHALL
APPLICABLE.

PLAN
SCALE:1" = 30"

STATE OF VERMONT
NICHOLAS P. SICARD
No. 53831
Civil
LICENSED PROFESSIONAL ENGINEER

RUGGLES ENGINEERING SERVICES, INC.
4580 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.
Address: PO BOX 65, MONTGOMERY, VT 05470

PHASE I SITE SPECIFIC EROSION CONTROL PLAN
FAIRFIELD BRF O281 (25)

REVISIONS		
No.	Description	Date
-	-	-
-	-	-
-	-	-
-	-	-

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

EPSC 1

Sheet of -

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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.
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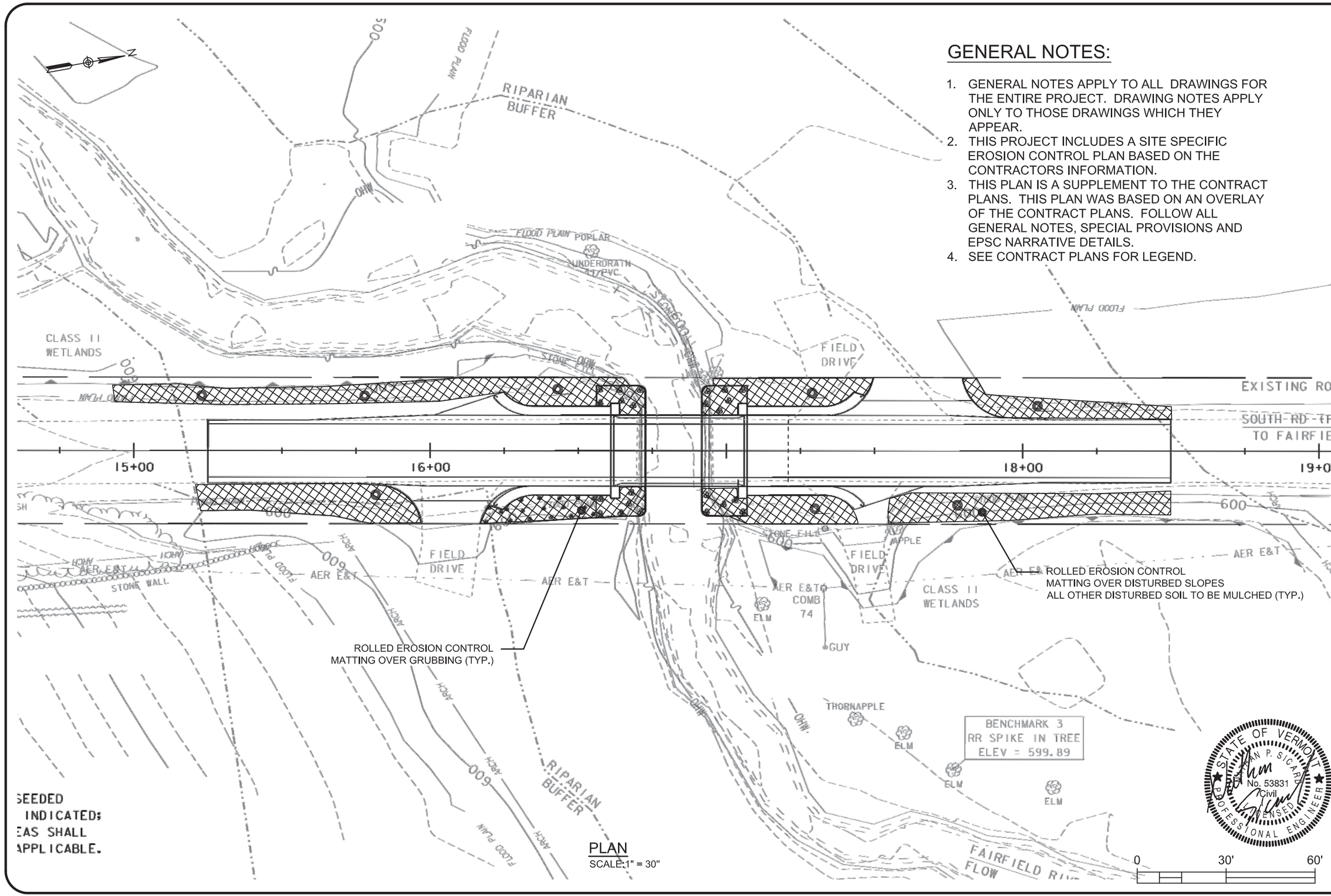
4. SEE CONTRACT PLANS FOR LEGEND.



SEEDED
INDICATED;
EAS SHALL
APPLICABLE.

PLAN
SCALE: 1" = 30"

STATE OF VERMONT
NATHAN P. SICARD
No. 53831
Civil
LICENSED
PROFESSIONAL ENGINEER

RUGGLES ENGINEERING SERVICES, INC.
4580 MEMORIAL DRIVE, ST. JOHNSBURY, VT 05819
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802-748-5898
JOB No. 15002

PREPARED FOR: A.L. ST. ONGE CONTRACTORS, INC.
Address: PO BOX 65, MONTGOMERY, VT 05470

FINAL - SITE SPECIFIC EROSION CONTROL PLAN
FAIRFIELD BRF O281 (25)

REVISIONS		
No.	Description	Date

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

EPSC 2

Sheet of -

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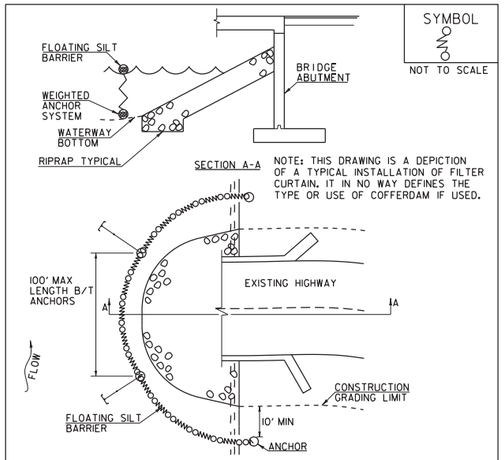


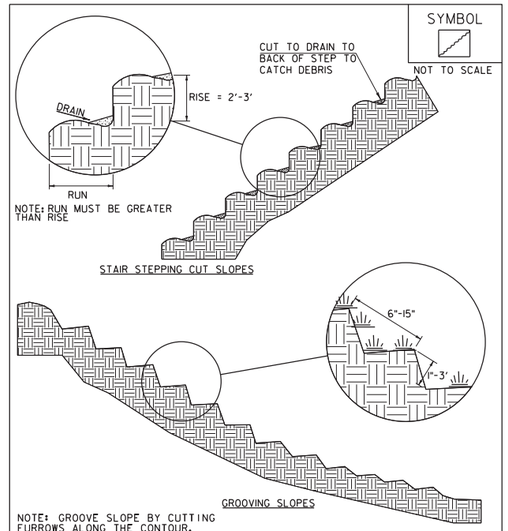
CONSTRUCTION SPECIFICATIONS

1. FILTER CURTAIN SHALL NOT BE PLACED ACROSS A FLOWING WATERWAY, OR IN A WATERWAY WITH STREAM VELOCITIES GREATER THAN 1.5 FEET/SECOND.
2. MAXIMUM 100' LENGTH BETWEEN ANCHORS.
3. LAST SECTION SHALL TERMINATE A MINIMUM OF 10' BEYOND LIMIT OF DISTURBANCE.
4. THE WEIGHTED ANCHOR SYSTEM SHALL BE A TYPE WHICH ALLOWS THE CURTAIN TO CONFORM TO THE BOTTOM OF THE WATERWAY.
5. THE CURTAIN SHALL BE REMOVED BY SLOWLY PULLING TOWARD THE SHORE MINIMIZING THE ESCAPE OF SEDIMENTS INTO WATERWAY.

FILTER CURTAIN

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 649 FOR GEOTEXTILE FOR FILTER CURTAIN (PAY ITEM 649.61).

REVISIONS	
APRIL 1, 2008	WHF
JANUARY 13, 2009	WHF
SEPTEMBER 4, 2009	WHF



NOTE: GROOVE SLOPE BY CUTTING FURROWS ALONG THE CONTOUR. IRREGULARITIES IN THE SOIL SURFACE CATCH RAINWATER AND RETAIN LIME, FERTILIZER AND SEED.

ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC
ORIGINALLY DEVELOPED BY USDA-NRCS
VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SURFACE ROUGHENING

NOTES:
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006- " FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.

THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT

REVISIONS	
APRIL 1, 2008	WHF
JANUARY 13, 2009	WHF

VAOT RURAL AREA MIX

LBS/AC					
% WEIGHT	BROADCAST	HYDROSEED	NAME	GERM %	PURITY %
37.5%	22.5	45	CREEPING RED FESCUE	85%	98%
37.5%	22.5	45	TALL FESCUE	90%	95%
5.0%	3	6	RED TOP	90%	95%
15.0%	9	18	BIRDSFOOT TREFOIL	85%	98%
5.0%	3	6	ANNUAL RYE GRASS	85%	95%
100%	60	120			

VAOT URBAN AREA MIX

LBS/AC					
% WEIGHT	BROADCAST	HYDROSEED	NAME	GERM %	PURITY %
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

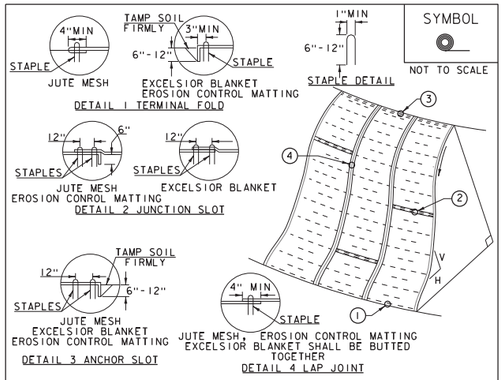
1. RURAL SEED MIX: USE AS INDICATED IN THE PLANS AND/OR FOR ALL ESTABLISHED UPLAND (NON WETLAND) AREAS DISTURBED BY THE CONTRACTOR.
2. URBAN SEED MIX: USE AS INDICATED IN THE PLANS AND/OR FOR ALL ESTABLISHED LAWN AREAS DISTURBED BY THE CONTRACTOR.
3. ALL SEED MIXTURES: SHALL NOT HAVE A WEED CONTENT EXCEEDING 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



CONSTRUCTION SPECIFICATIONS

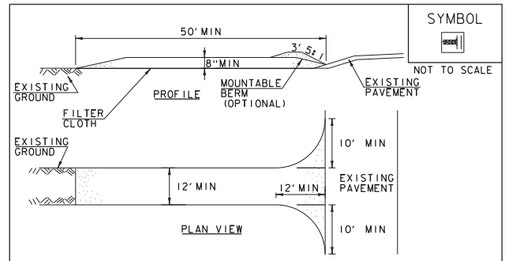
1. APPLY TO SLOPES GREATER THAN 3H: 1V OR WHERE NECESSARY TO AID IN ESTABLISHING VEGETATION.
2. APPLY FERTILIZER, LIME SEED PRIOR TO PLACING MATTING.
3. STAPLES ARE TO BE PLACED ALTERNATELY, IN COLUMNS APPROXIMATELY 2' APART AND IN ROWS APPROXIMATELY 3' APART. APPROXIMATELY 175 STAPLES ARE REQUIRED PER 4'X225' ROLL OF MATERIAL AND 125 STAPLES ARE REQUIRED PER 4'X150' ROLL OF MATERIAL.
4. DISTURBED AREAS SHALL BE SMOOTHLY GRADED. EROSION CONTROL MATERIAL SHALL BE PLACED LOOSELY OVER GROUND SURFACE. DO NOT STRETCH.
5. ALL TERMINAL ENDS AND TRANSVERSE LAPS SHALL BE STAPLED AT APPROXIMATELY 12" INTERVALS.

ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC
ORIGINALLY DEVELOPED BY USDA-NRCS
VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

ROLLED EROSION CONTROL PRODUCT (RECP) SIDE SLOPE

NOTES:
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006- " FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.
THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 653 AND AS SHOWN IN THE PLANS FOR TEMPORARY EROSION MATTING (PAY ITEM 653.20) ~~OR PERMANENT EROSION MATTING (PAY ITEM 653.21)~~

REVISIONS	
APRIL 16, 2007	JMF
JANUARY 13, 2009	WHF



CONSTRUCTION SPECIFICATIONS

1. STONE SIZE- USE 1-4" STONE, RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH- NOT LESS THAN 50' (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30' MINIMUM LENGTH APPLIES).
3. THICKNESS- NOT LESS THAN 8".
4. WIDTH- 12' MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. 24' IF SINGLE ENTRANCE TO SITE.
5. GEOTEXTILE MUST BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING STONE.
6. SURFACE WATER- ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY, ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED ACCORDING TO PERMIT REQUIREMENTS.

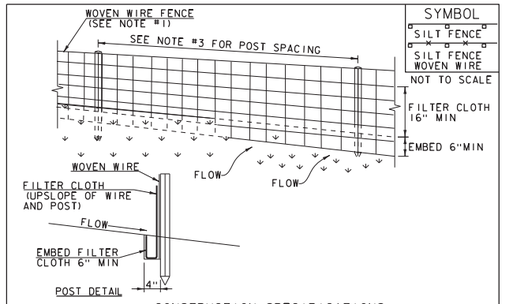
ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC
ORIGINALLY DEVELOPED BY USDA-NRCS
VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

STABILIZED CONSTRUCTION ENTRANCE

NOTES:
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006- " FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 653 FOR VEHICLE TRACKING PAD (PAY ITEM 653.35) OR AS SPECIFIED IN THE CONTRACT.

REVISIONS	
MARCH 24, 2008	WHF
JANUARY 13, 2009	WHF



CONSTRUCTION SPECIFICATIONS

1. WOVEN WIRE REINFORCED FENCE IS REQUIRED WITHIN 100' UPSLOPE OF RECEIVING WATERS WHEN THE PROJECT FALLS UNDER A CONSTRUCTION STORMWATER PERMIT. WOVEN WIRE SHALL BE A MIN. 14 GAUGE WITH A 6" MAX. MESH OPENING.
2. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI100X, STABILINKA T140N OR APPROVED EQUIVALENT.
3. POST SPACING FOR WIRE-BACKED FENCE SHALL BE 10' MAXIMUM. FOR FILTER-CLOTH FENCE, WHEN ELONGATION IS >50%, POST SPACING SHALL NOT EXCEED 4' AND WHEN ELONGATION IS <50%, POST SPACING SHALL NOT EXCEED 6'.
4. WOVEN WIRE FENCE IS TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES. FILTER CLOTH IS TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
5. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY 6" AND FOLDED.
6. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN SEDIMENT REACHES HALF OF FABRIC HEIGHT.

ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC
ORIGINALLY DEVELOPED BY USDA-NRCS
VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SILT FENCE

NOTES:
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006- " FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 649 AND AS SHOWN IN THE PLANS FOR GEOTEXTILE FOR SILT FENCE (PAY ITEM 649.51) OR GEOTEXTILE FOR SILT FENCE, WOVEN WIRE REINFORCED (PAY ITEM 649.515).

REVISIONS	
MARCH 21, 2008	WHF
DECEMBER 11, 2008	WHF
JANUARY 13, 2009	WHF

PROJECT NAME: FAIRFIELD
PROJECT NUMBER: BRF 028I(25)

FILE NAME: s12j156erodetails.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 31 OF 69