

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

FOR

RANDOLPH BRO 1444 (57)

FOR

J.P. Sicard, Inc.
PO BOX 508
Barton, VT 05822

Revised March 31, 2015
December, 2014



CPESC #8020



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 33 of 39, dated 8/12/2014). 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, staging, stockpiles and waste and borrow. Site staging will be as shown on EPSC Plan sheets 1 and 2. Off-site activities will include dewatering conveyance and crane staging. These areas are shown on the revised erosion control plans. Total disturbance for the site will include approximately 0.85 acres.

The site for waste excavation has yet to be selected and will use an offsite activities form and will be submitted prior to construction.

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

1.2 Site inventory

1.2.1 Topography:

Add – 1.2.1.1: The topography of the Town Highway 65 slopes from VT Highway 14 towards the project. The right of way slopes to the farm field prior to conveyance to the river.

1.2.2 Waterways:

Add – 1.2.2.1: The project is located in the Second Branch Flood Plain and Floodway. Material/Equipment Storage and the Office trailer will be located to minimize the risk of floatation, damage, etc. in the event of high water during the project.

1.2.4 Soils:

Add - 1.2.4.1: Staging area. The USDA NRCS Soil Map indicates that the soils at the staging area include Merrimac Fine Sandy Loam. Merrimac FSL is considered not highly erodeable ($k=0.24$).

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. Project Delineation Fence will be installed to identify the limits of disturbance. A Temporary Stabilized Construction Entrance is not proposed on the west side of the project since the road will be shut down during construction. A stabilized entrance will be installed prior to entering VT Highway 14 since it is anticipated that the road shoulders will be disturbed and possibly tracked toward the Highway.

1.5.1.2. Bridge Removal

The existing bridge and abutments will be removed. Excavation below the ordinary high water mark will not occur until stream diversion is in place for channel excavation.

1.5.1.3. Channel Excavation

Prior to beginning channel excavation, temporary measures will be used to control stream flow. The stream will be shifted to one side of the channel by using large 1cy sandbags which will be placed with an excavator. The sandbags will be used to support plastic sheets which will be used to keep the majority of river water out of the work area. Stream diversion will only be effective during low flow conditions which could affect the schedule if there are long durations of rain. Water that remains in the excavation area will be pumped to a filter bag prior to returning to the river. The bags will be placed a minimum of 50 feet from the river as shown on EPSC1 and EPSC2.

1.5.1.4. Crane Pad construction.

The crane pad will be installed for pile driving and placement of the precast concrete sections. There is an existing drainage swale located where the crane will need to operate. This will require a temporary 15" drain pipe under the crane pad.

1.5.1.5. Abutment backfill.

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 crane pad can be removed. Since the slopes are only 10-20 feet, sheet flow will be minimal; all sediment control measures will be removed as shown on EPSC3. The areas will be mulched or stabilized with erosion matting. Channelized flow in the new ditches will include stone check dams until grass is established.

1.5.2 Off-site Activities.

Off-site Activities forms will be submitted for use of the land outside of road right of way. Forms will be needed for the northwest and northeast areas of the project. An offsite form will also be used for the disposal of waste excavation.

1.5.3 Updates

When updates are necessary J.P. Sicard, Inc. will contact Ruggles Engineering Services to submit a revised narrative.

1.6 Contact Information

1.6.1 On-Site Plan Coordinator:

Paul Carr
J.P. Sicard, Inc.
PO Box 508
Barton, VT 05822
(802) 673-7802

Paul has over 30 years' experience in highway and bridge construction. Paul is familiar with the EPSC contractor requirements, installation and maintenance methods. Paul will be onsite to implement the phases of EPSC and to coordinate the monitoring and inspections.

Paul 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.

1 Erosion Prevention and Sediment Control Plan

See Appendix C – PLANS.

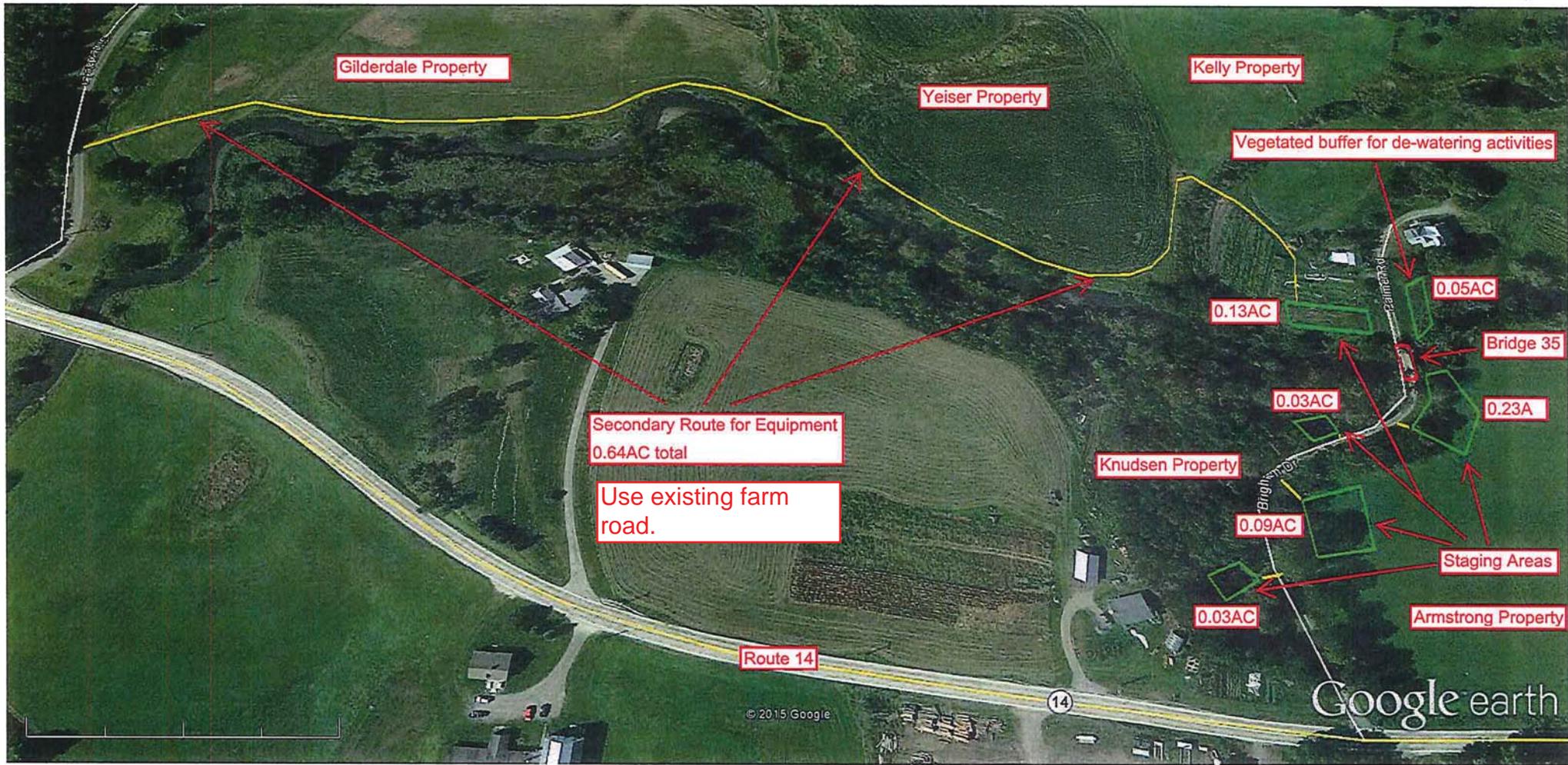
APPENDIX A – SCHEDULES

1. Contractor CPM Schedule – PREPARED BY CONTRACTOR.

APPENDIX B – FORMS

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

received
3-2-15



Google earth

feet
meters



OFF-SITE ACTIVITY REVIEW



VTRANS ENVIRONMENTAL RESOURCE REVIEW

Project/District Name: Randolph BRO 1444(57) **Proposed Area Name:** Gilderdale Property access

Waste meters) Borrow Staging Other Access Road X: 495439.43 Y: 157730.06 (NAD83,

Natural Resource Review Reviewer: John Lepore, VTrans Biologist

Accepted Rejected Date 3/11/2015 Signature [Signature]

Comments _____

Cultural Resource Review Reviewer: Jen Russell, VTrans Archaeology Officer

Accepted Rejected Date _____ Signature [Signature]

Comments per conversation w/ contractor, access will be once in, set up and once out when project is complete to minimize impacts to existing farm route.

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 _____ feet from _____
- 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: _____
- Please contact the Construction Environmental Engineer prior to use of this site.
- Other: will use existing mapped farm route only and will avoid adjacent Ag fields.

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
2-24-15



OFF-SITE ACTIVITY SUBMITTAL

- 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.

Access Rd

SUBMITTAL INFORMATION

Project Name/District: Randolph BRO 144 (57) Contractor/District Tech: J.P. Sicard, Inc.
 Contact: BRAD DRAKE Phone: 802-323-6714 Fax: 802-525-4616 E-mail: brad@jpsicard.com
 Resident Engineer: Tom Chase Phone: 802-281-5001 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): Access Road
 Material: Type (asphalt, concrete, earthen, etc.) N/A Quantity (yds³) _____
 Total Area of Land Disturbance (sq ft) 0.34 Acres (1050' x 14') 14,700 ft²
 Additional Info: Land will be used to transport minimal equipment for ingress/egress only.
Equipment will not disturb soil at depths greater than current agricultural equipment does under current land use.

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

Name: DAVID GILDERDALE
SANDY GILDERDALE Address: 1542 VT-145, Randolph Ctr, VT 05061 Phone: 802-728-4997
 Print Name
 Private Residential/Commercial Town/State Owned Facility Other
 Additional Info: Current land use is agricultural: corn
 Are there other users of this site? Yes Pinello Family Farm (Farmer) No
 Known past uses: Historic land use is agricultural
 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? Y
 List of Other Existing Permits: _____

Better Map
Sketch
Rec'd 3/2/15

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

I, David Gilderdale, warrant that the information in the above permit application is true and correct.
 Landowner/Facility Manager Signature
 to the use of the proposed area by J.P. Sicard, 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: 2-4-15

This clearance is for the Natural and Cultural Resources Only.

OFF-SITE ACTIVITY REVIEW



VTRANS ENVIRONMENTAL RESOURCE REVIEW

Project/District Name: Randolph BRO 1444(57)

Proposed Area Name: Yeiser Property access

Waste
meters)

Borrow

Staging

Other
Access Road

X: 495504.43 Y: 157987.77 (NAD83,

Natural Resource Review

Accepted Rejected

Date 3/11/2015

Signature [Signature]

Reviewer: John Lepore, VTrans Biologist

Comments _____

Cultural Resource Review

Accepted Rejected

Date 3-12-15

Signature [Signature]

Reviewer: Jen Russell, VTrans Archaeology Officer

Comments Per conversation w/contractor, access will be once in, set up and once out when project is complete.

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 will help to ensure minimal impact to existing farm route.

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 _____ feet from _____

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:

Please contact the Construction Environmental Engineer prior to use of this site.

Other: will avoid adjacent fields and use existing mapped route only. Route will not be modified.

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
3.2.15



OFF-SITE ACTIVITY SUBMITTAL

- 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: RANDOLPH BRO (144) Contractor/District Tech: J.P. SICARD, INC.
 Contact: BRAD DRAVE Phone: 802-525-9506 Fax: 802-525-4666 E-mail: brad@jpsicard.com
 Resident Engineer: TOM CHASE Phone: 261-5001 Fax: _____

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

Waste Borrow Staging Other (as described in location): Access Roads
 Material: Type (asphalt, concrete, earthen, etc.) N/A Quantity (yds³) _____
 Total Area of Land Disturbance (sq ft) 0.23 acres (710' x 14') 9,940 ft²
 Additional Info: Land will be used to transport minimal equipment for ingress/egress only.

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

Name: Charles (Buck) Yeiser Address: 42,922111, -72,557645 Phone: 802-223-6391
 Print Name _____ Address: Located Southwest of 140 Palmer Rd and Ave north of 1542 VT-145, Randolph Center, VT 05601
 Private Residential/Commercial Town/State Owned Facility Other _____
 Additional Info: Current land use is agricultural: corn
 Are there other users of this site? Yes No Pinello Family Farm (Farmer)
 Known past uses: Historic land use is agricultural
 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, Charles (Buck) Yeiser, 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 J.P. Sicard, 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: _____

This clearance is for the Natural and Cultural Resources Only.

OFF-SITE ACTIVITY REVIEW



VTRANS ENVIRONMENTAL RESOURCE REVIEW

Project/District Name: Randolph BRO 1444(57)

Proposed Area Name: Kelly/Caruthers

Waste
meters)

Borrow

Staging

Other
Access Road

X: 495479.96 Y: 157935.64 (NAD83,

Natural Resource Review

Accepted Rejected

Date 3/11/2015 Signature [Signature]

Reviewer: John Lepore, VTrans Biologist

Comments _____

Cultural Resource Review

Accepted Rejected

Date 3-12-15 Signature [Signature]

Reviewer: Jen Russell, VTrans Archaeology Officer

Comments access will utilize existing routes used by landowners/farmers for once in, set-up and once out. will not be a "highway" for equipment vehicles.

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 _____ feet from _____

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:

Please contact the Construction Environmental Engineer prior to use of this site.

Other: will use existing ^{marked} routes & will not disturb adjacent fields.

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
2-24-15

VTrans
Vermont's Best Value

OFF-SITE ACTIVITY SUBMITTAL

- 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

3 sites (staging, road + dewatering)

Project Name/District: Randolph BRD 1499(57) Contractor/District Tech: J.P. SICARD, Inc.
 Contact: BRAD DRAVE Phone: 802-828-6714 Fax: 802-828-4616 E-mail: brad@jpsicard.com
 Resident Engineer: Tom Chase 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): Access Roads + dewatering
 Material: Type (asphalt, concrete, earthen, etc.) Earthen Quantity (yds³) Approximately 800 yd³
 Total Area of Land Disturbance (sq ft) 0.28 acres (12,110 ft²)
 Additional Info: Land use: Equipment staging, stockpile staging, equipment transport, dewatering area
Equipment will not disturb soil at depths greater than agricultural equipment activities

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

Name: MARK KELLY III
 Print Name: JOSEPHINE CAROTHERS Address: 140 PALMER RD, RANDOLPH CENTER Phone: 802-728-5525
 VT 05061
 Private Residential/Commercial Town/State Owned Facility Other
 Additional Info: Current use is residential
 Are there other users of this site? Yes No
 Known past uses: Residential +
 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: _____

Better Map
Sketch
Rec'd
2/2/15

Landowner Agreement (Signature is required for all private-, town-, and state-owned properties)
 I, Mark Kelly + Josephine Carothers, warrant that the information in the above permit application is accurate and agree
 Landowner/Facility Manager Signature Mark & Kelly III, Josephine S. Carothers
 to the use of the proposed area by J.P. SICARD, 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: 1-28-15

This clearance is for the Natural and Cultural Resources Only.

OFF-SITE ACTIVITY REVIEW



VTRANS ENVIRONMENTAL RESOURCE REVIEW

Project/District Name: Randolph BRO 1444(57)

Proposed Area Name: Kelly/Carothers

Waste
meters)

Borrow

Staging

Other

X: 495531.29 Y: 158086.29 (NAD83,

Natural Resource Review

Accepted Rejected

Date 3/11/2015

Signature [Signature]

Reviewer: John Lepore, VTrans Biologist

Comments _____

Cultural Resource Review

Accepted Rejected

Date 3-9-15

Signature [Signature]

Reviewer: Jen Russell, VTrans Archaeology Officer

Comments area previously tested for archaeology by Hartgen for the bridge project. No sites found, historic floodplain.

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 _____ feet from _____

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: _____

Please contact the Construction Environmental Engineer prior to use of this site.

Other: _____

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
2-24-15

VTrans Working to Get You There

OFF-SITE ACTIVITY SUBMITTAL

- 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

3 sites (staging, road + dewatering)

Project Name/District: Randolph BRD 1444(57) Contractor/District Tech: J.P. SICARD, Inc.
 Contact: BRAD DRAVE Phone: 802-823-6714 Fax: 802-525-4616 E-mail: brad@jpsicard.com
 Resident Engineer: Tom Chase 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): Access Roads + dewatering
 Material: Type (asphalt, concrete, earthen, etc.) Earthen Quantity (yds³) Approximately 800 yds³
 Total Area of Land Disturbance (sq ft) 0.28 acres (12,110 ft²)
 Additional Info: Land use: Equipment staging, stockpile staging, equipment transport, dewatering area
Equipment will not disturb soil at depths greater than agricultural equipment activities

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

Name: MARK KELLY III
JOSEPHINE CAROTHERS Address: 140 PALMER RD, RANDOLPH CENTER Phone: 802-728-5525
 Print Name VT 05061
 Private Residential/Commercial Town/State Owned Facility Other
 Additional Info: Current use is residential
 Are there other users of this site? Yes No
 Known past uses: Residential +
 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: _____

Better Map Sketch
Rec'd 2/21/15

Landowner Agreement (Signature is required for all private-, town-, and state-owned properties)
 I, Mark Kelly + Josephine Carothers, warrant that the information in the above permit application is accurate and agree
 Landowner/Facility Manager Signature Mark & Kelly III, Josephine S. Carothers
 to the use of the proposed area by J.P. SICARD, 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: 1-28-15

This clearance is for the Natural and Cultural Resources Only.

OFF-SITE ACTIVITY REVIEW



VTRANS ENVIRONMENTAL RESOURCE REVIEW

Project/District Name: Randolph BRO 1444(57) **Proposed Area Name:** Knudsen Site 1 (west)

Waste Borrow Staging Other X: 495577.85 Y: 158079.52 (NAD83, meters)

Natural Resource Review Reviewer: John Lepore, VTrans Biologist

Accepted Rejected Date: 3/11/2015 Signature: [Signature]

Comments: _____

Cultural Resource Review Reviewer: Jen Russell, VTrans Archaeology Officer

Accepted Rejected Date: 3/12/15 Signature: [Signature]

Comments: area previously disturbed - mined for gravel per information from landowner/contractor

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 _____ feet from _____
- 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: _____
- Please contact the Construction Environmental Engineer prior to use of this site.
- Other: _____

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
2.24.15
VTrans
Moving to Get You There

OFF-SITE ACTIVITY SUBMITTAL

- 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

2 sites

Project Name/District: RANDOLPH BRO 1444 (57) Contractor/District Tech: J.P. Sicard, Inc.
 Contact: BRAD DRAKE Phone: 802-525-9506 Fax: 802-525-4616 E-mail: brad@jpsicard.com
 Resident Engineer: Tom Chase Phone: 201-5001 Fax: _____

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

Waste Borrow Staging granular backfill Other (ex. dewatering location): _____
 Material: Type (asphalt, concrete, earthen, etc.) To be determined Quantity (yds³) To be determined @ 225 yds³
 Total Area of Land Disturbance (sq ft) _____
 Additional Info: Land will be used for staging equipment and possibly minor stockpiles of material

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

Name: Ernest Knudsen Address: 1260 VT-14S, Randolph Center, VT 05061 Phone: 802-728-9323
 Private Residential/Commercial Town/State Owned Facility Other
 Additional Info: Previously cleared forest land adjacent to Palmer Rd right of way.
 Are there other users of this site? Yes No
 Known past uses: Previously cleared forest land - used for staging of property owners farming equipment
 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: _____

Better Map rec'd 3/2/15
 Sketch
 Material Type
 Quantity } TBD is not accept.

Landowner Agreement (Signature is required for all private-, town-, and state-owned properties)
 I, Ernest Knudsen, warrant that the information in the above permit application is a
 Landowner/Facility Manager Signature
 to the use of the proposed area by J.P. Sicard, Inc. as shown on the attached sketch. If act
 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: 2-16-15

This clearance is for the Natural and Cultural Resources Only.

OFF-SITE ACTIVITY REVIEW



VTRANS ENVIRONMENTAL RESOURCE REVIEW

Project/District Name: Randolph BRO 1444(57) **Proposed Area Name:** Armstrong Site 2, 0.23 acres

Waste meters Borrow Staging Other X: 495549.02 Y: 158141.06 (NAD83)

Natural Resource Review

Accepted Rejected Date 3/11/2015 Signature [Signature] Reviewer: John Lepore, VTrans Biologist

Comments _____

Cultural Resource Review

Accepted Rejected Date 3-9-15 Signature [Signature] Reviewer: Jen Russell, VTrans Archaeology Officer

Comments Area previously tested by Hartgen as part of bridge project. No sites found.

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 _____ feet from _____
- 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: _____
- Please contact the Construction Environmental Engineer prior to use of this site.
- Other: _____

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
2.24.15



OFF-SITE ACTIVITY SUBMITTAL

- 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

2 sites

Project Name/District: Randolph Boro 1444 (57) Contractor/District Tech: J.P. Sicard, Inc.
 Contact: BRAD DEANE Phone: 802-823-6714 Fax: 802-525-4616 E-mail: brad@jpsicard.com
 Resident Engineer: Tom Chase Phone: 802-281-5001 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) Approximately 600 yd³
 Total Area of Land Disturbance (sq ft) 0.82 Acres (13,940 ft²)
 Additional Info: Land will be used for staging equipment and soil + granular backfill stockpiles

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

Name: Larry Armstrong Address: 1112 VT-145 RANDOLPH CENTER, VT 05061 Phone: 802-728-5351
 Print Name
 Private Residential/Commercial Town/State Owned Facility Other
 Additional Info: current use is agricultural: Hay field
 Are there other users of this site? Yes No
 Known past uses: Agricultural
 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 _____
 List of Other Existing Permits: _____

Better Map sketch
Rec'd 3/2/15

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

I, Larry Armstrong, 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 J.P. Sicard, 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: 01-12-15

This clearance is for the Natural and Cultural Resources Only.

OFF-SITE ACTIVITY REVIEW



VTRANS ENVIRONMENTAL RESOURCE REVIEW

Project/District Name: Randolph BRO 1444(57) **Proposed Area Name:** Knudsen Site 2 East
 Waste meters) Borrow Staging Other X: 495642.15 Y: 158043.69 (NAD83)

Natural Resource Review
 Accepted Rejected Date 3/11/2015 Signature [Signature] Reviewer: John Lepore, VTrans Biologist
Comments _____

Cultural Resource Review
 Accepted Rejected Date 3/12/15 Signature [Signature] Reviewer: Jen-Russell, VTrans Archaeology Officer
Comments area currently used as storage for vehicles/equipment by landowner. No additional disturbance will occur as a result of use.

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 _____ feet from _____
 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:

 Please contact the Construction Environmental Engineer prior to use of this site.
 Other: _____

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
2.24.15
VTrans
Moving to Get You There

OFF-SITE ACTIVITY SUBMITTAL

- 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

2 sites

Project Name/District: RANDOLPH BRO 1444 (52) Contractor/District Tech: J.P. Sicard, Inc.
 Contact: BRAD DRAKE Phone: 802-525-9506 Fax: 802-525-4616 E-mail: brad@jpsicard.com
 Resident Engineer: Tom Chase Phone: 281-5001 Fax: _____

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

Waste Borrow Staging granular backfill Other (ex. dewatering location): _____
 Material: Type (asphalt, concrete, earthen, etc.) To be determined Quantity (yds³) To be determined @ 225 yds³
 Total Area of Land Disturbance (sq ft) _____
 Additional Info: Land will be used for staging equipment and possibly minor stockpiles of material

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

Name: Ernest Knudsen Address: 1260 VT-14S, Randolph Center, VT 05061 Phone: 802-728-9323
 Print Name
 Private Residential/Commercial Town/State Owned Facility Other
 Additional Info: Previously cleared forest land adjacent to Palmer Rd right of way.
 Are there other users of this site? Yes No
 Known past uses: Previously cleared forest land - used for staging of property owners farming equipment
 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: _____

Better Map rec'd 3/2/15
Sketch
Material Type
Quantity
TBD is not accept.

Landowner Agreement (Signature is required for all private-, town-, and state-owned properties)
 I, Ernest Knudsen, warrant that the information in the above permit application is a
 Landowner/Facility Manager Signature
 to the use of the proposed area by J.P. Sicard, Inc. as shown on the attached sketch. If acti
 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: 2-16-15

This clearance is for the Natural and Cultural Resources Only.

OFF-SITE ACTIVITY REVIEW



VTRANS ENVIRONMENTAL RESOURCE REVIEW

Project/District Name: Randolph BRO 1444(57)

Proposed Area Name: Kelly/Carothers

Waste
meters)

Borrow

Staging

Other
Dewatering site

X: 495522.82 Y: 158116.72 (NAD83,

Natural Resource Review

Accepted Rejected

Date 3/11/2015

Signature [Signature]

Reviewer: John Lepore, VTrans Biologist

Comments _____

Cultural Resource Review

Accepted Rejected

Date 3-9-15

Signature [Signature]

Reviewer: Jen Russell, VTrans Archaeology Officer

Comments area previously tested for archaeology by Hartgen for the bridge project. No sites found..

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 _____ feet from _____

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:

Please contact the Construction Environmental Engineer prior to use of this site.

Other: _____

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
2-24-15

VTrans
Vermont's Best Value Program

OFF-SITE ACTIVITY SUBMITTAL

- 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

3 sites (staging, road + dewatering)

Project Name/District: Randolph BRD 1499(57) Contractor/District Tech: J.P. SICARD, Inc.
 Contact: BRAD DRAKE Phone: 802-828-6714 Fax: 802-525-4616 E-mail: brad@jpsicard.com
 Resident Engineer: Tom Chase 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): Access Roads + dewatering
 Material: Type (asphalt, concrete, earthen, etc.) Earthen Quantity (yds³) Approximately 800 yd³
 Total Area of Land Disturbance (sq ft) 0.28 acres (12,110 ft²)
 Additional Info: Land use: Equipment staging, stockpile staging, equipment transport, dewatering area
Equipment will not disturb soil at depths greater than agricultural equipment activities

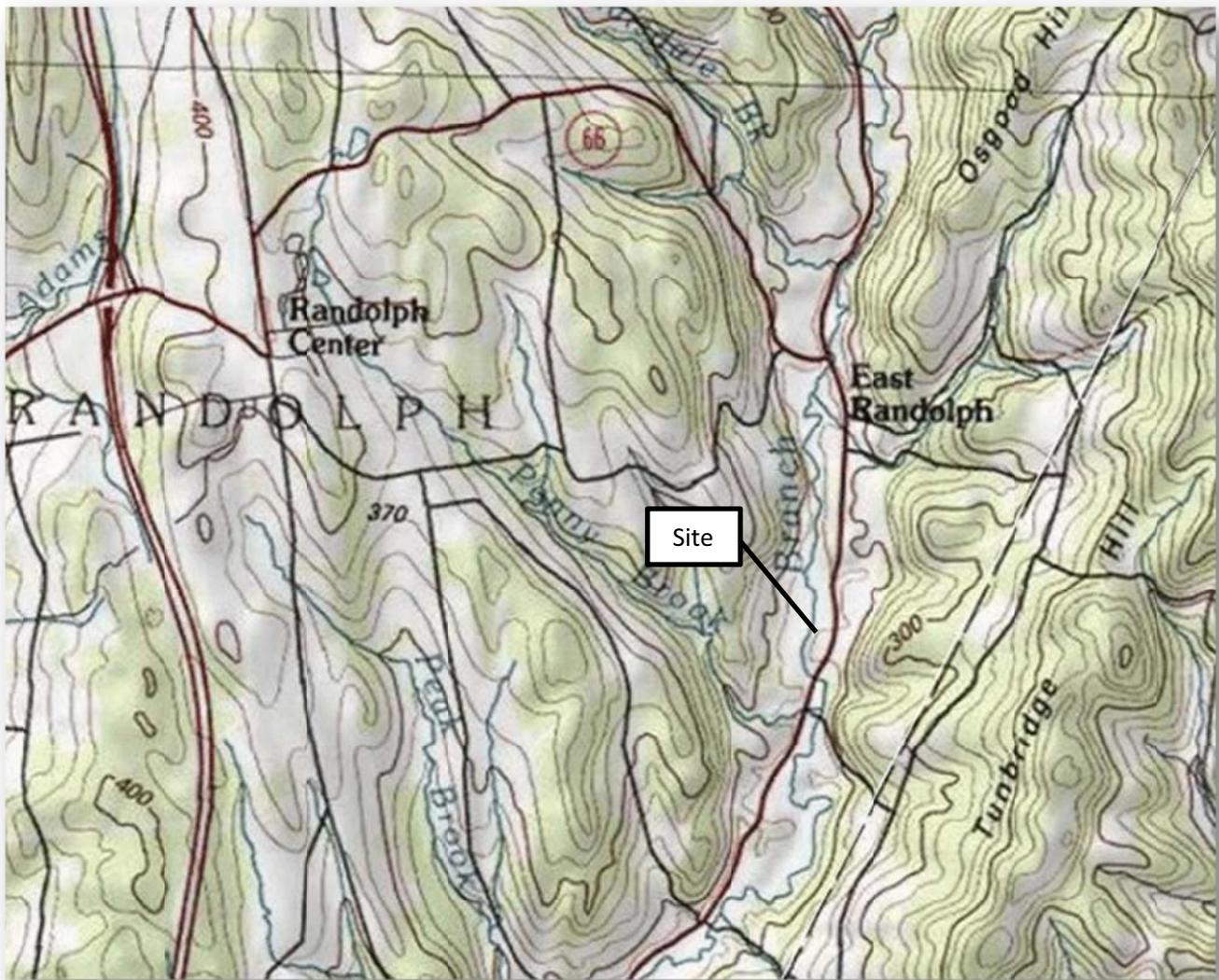
LANDOWNER/PROPERTY INFO (Fill all applicable boxes; attach a Location Map and Sketch of Area)

Name: MARK KELLY III
 Print Name: JOSEPHINE CAROTHERS Address: 140 PALMER RD, RANDOLPH CENTER Phone: 802-728-5525
 VT 05061
 Private Residential/Commercial Town/State Owned Facility Other
 Additional Info: Current use is residential
 Are there other users of this site? Yes No
 Known past uses: Residential +
 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: _____

Better Map
Sketch
Rec'd
2/24/15

Landowner Agreement (Signature is required for all private-, town-, and state-owned properties)
 I, Mark Kelly & Josephine Carothers, warrant that the information in the above permit application is accurate and agree to the use of the proposed area by J.P. SICARD, INC. as shown on the attached sketch. If acting as the agent of
 Landowner/Facility Manager Signature: Mark & Kelly III, Josephine S. Carothers Note: within 100 ft of tree canopy on front lawn
 Name of Contractor: J.P. SICARD, INC.
 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: 1-28-15

This clearance is for the Natural and Cultural Resources Only.



USGS 7.5" Quadrangle – East Randolph

OFF-SITE ACTIVITY SUBMITTAL



- **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: _____	Contractor/District Tech: _____		
Contact: _____	Phone: _____	Fax: _____	E-mail: _____
Resident Engineer: _____	Phone: _____	Fax: _____	

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

<input checked="" type="checkbox"/> Waste	<input type="checkbox"/> Borrow	<input type="checkbox"/> Staging	<input type="checkbox"/> Other (ex. dewatering location): _____
Material: Type (asphalt, concrete, earthen, etc.) _____		Quantity (yds ³) _____	
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: _____	Address: _____	Phone: _____
Print Name		
<input 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 type="checkbox"/> Yes <input type="checkbox"/> No		
Known past uses: _____		
<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 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, _____, 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 _____ 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: _____

This clearance is for the Natural and Cultural Resources Only.

OFF-SITE ACTIVITY EXEMPTION RECORD



To be completed by the Contractor and filed with the Resident Engineer.

Check the appropriate exemption category from the boxes below.

Staging Area Exemptions

The placement of construction trailers, equipment, and/or non-erodible materials

- On existing paved or gravel surfaces which will not require any additional earth disturbance

Borrow Site Exemptions

- Existing, in-use gravel pits which have an Act 250 Permit as long as the use does not modify the conditions of said permit (Act 250 Permit # provided by Contractor)
- Existing, in-use, commercial gravel pits that are “Grandfathered” from the Act 250 Permit Review Process as long as a landowner signature is provided
- Inter-project Material Usage - The use of surplus materials from one project as borrow for another in which the owner and contractor are the same in both projects and neither involve work outside the respective contract construction limits

Waste Disposal Exemptions

- The use of project generated Solid Wastes to build the same project, or another project owned by the same entity
- Batch plants for recycling of materials and subsequent re-use
- The disposal of any (erodible or non-erodible) materials in an existing shed at any public transportation facility to which the material will be stored for later re-use
- Existing, in-use gravel pits which have an Act 250 Permit as long as the use does not modify the conditions of said permit (Act 250 Permit # provided by Contractor)
- Existing, in-use, commercial gravel pits that are “Grandfathered” from the Act 250 Permit Review Process as long as a landowner signature is provided
- Inter-project Material Usage - The use of surplus materials from one project as borrow for another in which the owner and contractor are the same in both projects and neither involve work outside the respective contract construction limits
- The disposal of hazardous materials at a facility which has been reviewed and approved by the Agency’s Hazardous Materials Specialist

Project Name: _____

Proposed Area Name: _____

Landowner Signature: _____

Act 250 Permit # (for Existing, In-use sites) _____

Act 250 Grandfathered Signature _____

(Owner or authorized representative)-

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

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.



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

Measure Inspected	Y	N	STA/Off	Corrective Action	Date Taken
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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 35 WHICH IS A 28-FOOT-SPAN JACK ARCH BRIDGE WITH A CONCRETE DECK SUPPORTED ON DRY LAID STONE ABUTMENTS WITH CONCRETE FOOTINGS. BRIDGE 35 WILL BE REPLACED WITH A PRECAST STRUCTURE, SPANNING 57 FEET OVER THE SECOND BRANCH OF THE WHITE RIVER, ON NEW FOOTINGS ALONG THE SAME ALIGNMENT. THE WIDTH OF THE BRIDGE WILL BE INCREASED TO 16 FEET. BRIDGE 35 IS LOCATED IN THE TOWN OF RANDOLPH ON TOWN HIGHWAY 65, APPROXIMATELY 585 FEET WEST OF THE INTERSECTION OF TOWN HIGHWAY 65 AND VERMONT ROUTE 14.

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 0.29 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 VALLEY THAT IS WOODED WITH FARM FIELDS. THERE IS ONE RESIDENCE AND A BARN ON THE WEST SIDE OF THE PROJECT. THERE IS ALSO A SMALL GARDEN AREA ON THE SOUTHWEST SIDE OF THE PROJECT.

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

THE SECOND BRANCH OF THE WHITE RIVER IS THE ONLY WATER SOURCE ON THE PROJECT SITE. THERE ARE NO WETLANDS OR SIGNIFICANT NATURAL COMMUNITIES IDENTIFIED WITHIN THE PROJECT AREA. THE STREAM BED CONSISTS OF PRIMARILY GRAVEL AND COBBLES. THE TRIBUTARY AREA AT THE BRIDGE CROSSING IS 47.3 SQUARE MILES. DUE TO THE NATURE OF THE SURROUNDING TERRAIN THE PROJECT SITE COULD RECEIVE RUNOFF WATER FROM A FEW NEARBY SLOPES.

1.2.3 VEGETATION

THE VEGETATION IN THE PROJECT AREA CONSISTS OF PINE AND HARDWOOD TREES, UNDERGROWTH, AND BRUSH. 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 IV 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 ORANGE, VERMONT. SOILS ON THE PROJECT SITE ARE WINOOSKI VERY FINE SANDY LOAM, 0 TO 3% SLOPES, "K FACTOR" = 0.49. THE SOIL IS CONSIDERED 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, ONE ARCHEOLOGICAL AREA IN THE SOUTHEAST QUADRANT CONSISTING OF A SMALL STONE CELLAR HOLE APPROXIMATELY 75 FEET SOUTHEAST OF THE BRIDGE.
PRIME AGRICULTURAL LAND: NO
THREATENED AND ENDANGERED SPECIES: NO
WATER RESOURCE: SECOND BRANCH OF WHITE RIVER
WETLANDS: NO

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, 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.

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.

A TRACKING PAD WILL BE UTILIZED AT THE INTERSECTION OF VT ROUTE 14. THE EXISTING GRAVEL ROADWAY WILL BE CLOSED DURING CONSTRUCTION AND WILL BE UTILIZED TO ACCESS THE BRIDGE.

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.

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.

MOST OF THE PROJECT AREA SITS HIGHER THAN THE SURROUNDING TERRAIN. CONSTRUCTION VEHICLES WILL BE ABLE TO UTILIZE THE EXISTING ROADWAY. 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.

STONE CHECK DAMS WILL BE INSTALLED AS PROPOSED ON THE EPSC PLAN, AT A MINIMUM.

1.4.7 CONSTRUCT PERMANENT CONTROLS

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

PERMANENT STORMWATER TREATMENT DEVICES ARE NOT ANTICIPATED ON THIS PROJECT.

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. TEMPORARY EROSION CONTROL MATTING WILL BE INSTALLED AS PROPOSED ON THE EPSC PLAN, AT A MINIMUM.

1.4.9 WINTER STABILIZATION

IT IS NOT ANTICIPATED THAT WINTER STABILIZATION WILL BE REQUIRED ON THIS PROJECT. 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. STONE FILL SHALL BE USED TO STABILIZE ROADWAY SLOPES AND THE CHANNEL AS SHOWN ON THE PLANS.

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 DISCHARGE FROM DEWATERING ACTIVITIES IS ANTICIPATED. A LOCATION FOR TREATMENT HAS BEEN PROPOSED AND SHOWN ON THE PLANS. HOWEVER, THE SPECIFIC MEANS FOR TREATMENT OF DISCHARGE SHALL BE PROVIDED BY THE CONTRACTOR. ALL COSTS FOR TREATMENT OF DISCHARGE WILL BE PAID UNDER CONTRACT ITEM 653.45.

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 SUBSECTIONS 105.25 - 105.29 OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION.

1.5.3 UPDATES

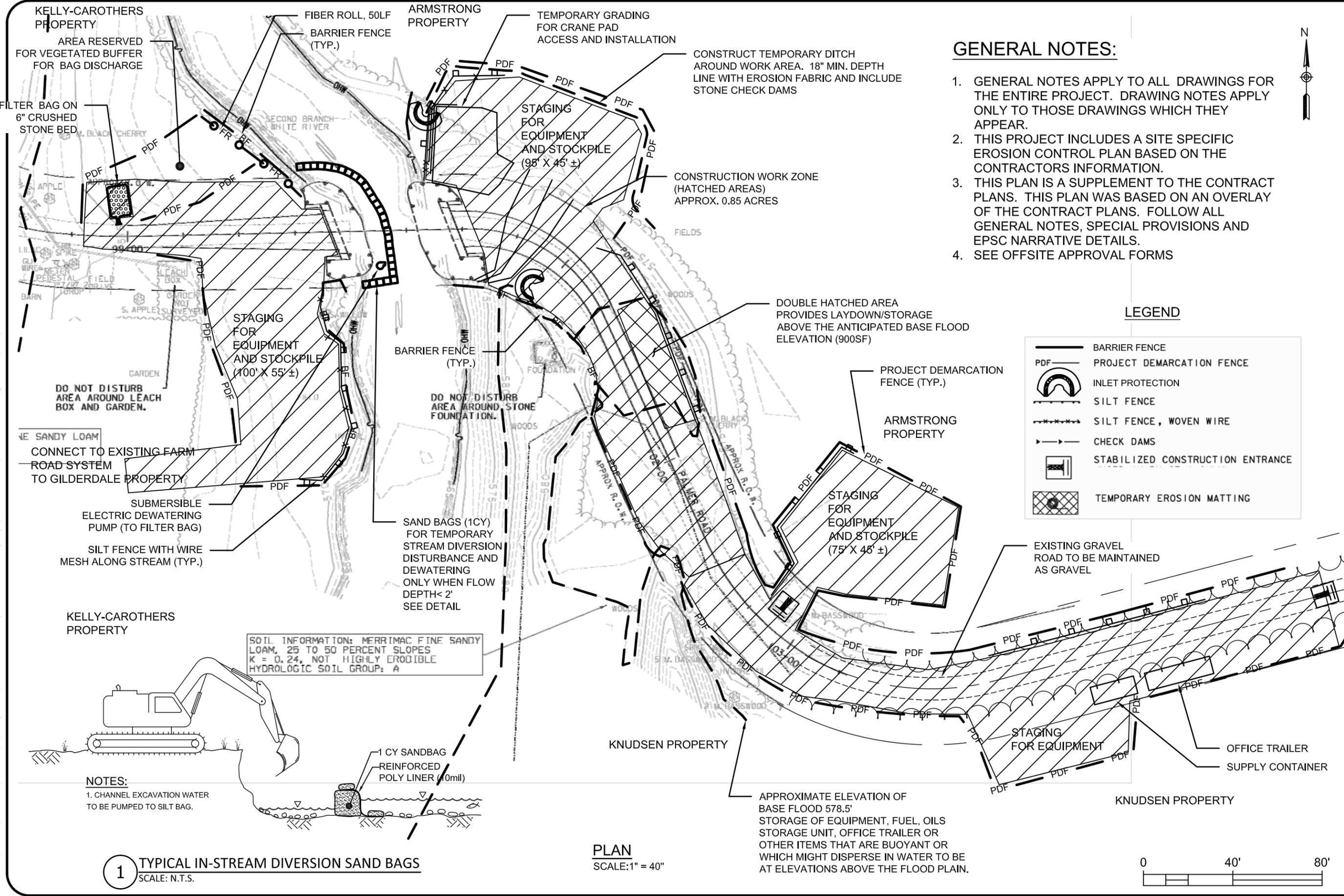
PROJECT NAME: RANDOLPH
PROJECT NUMBER: BRO 1444(57)

FILE NAME: z11j078erode.t.dgn
PROJECT LEADER: J. BYATT
DESIGNED BY: J. SMITH
EROSION CONTROL NARRATIVE

PLOT DATE: 8/12/2014
DRAWN BY: S. GOODWIN
CHECKED BY: D. MUNRO
SHEET 33 OF 39



C:\Users\Sicard\Desktop\Projects\JPS - Randolph BRO 1444(57)\EPSC Plan\EPSC -PH1.dwg - 2015/03/31



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 OFFSITE APPROVAL FORMS

LEGEND

	BARRIER FENCE
	PROJECT DEMARCATION FENCE
	INLET PROTECTION
	SILT FENCE
	SILT FENCE, WOVEN WIRE
	CHECK DAMS
	STABILIZED CONSTRUCTION ENTRANCE
	TEMPORARY EROSION MATTING

SOIL INFORMATION: MERRIMAC FINE SANDY LOAM, 25 TO 50 PERCENT SLOPES K = 0.24, NOT HIGHLY ERODIBLE HYDROLOGIC SOIL GROUP: A

NOTES:
1. CHANNEL EXCAVATION WATER TO BE PUMPED TO SILT BAG.

1 TYPICAL IN-STREAM DIVERSION SAND BAGS
SCALE: N.T.S.

PLAN
SCALE: 1" = 40"

RUGGLES ENGINEERING SERVICES, INC.
4860 MEMORIAL DRIVE, ST. JOHNSBURY, VT 05899
Civil Engineering - Site Permitting
Water, Sewer and Stormwater System Designs
JOB No. 144071

PREPARED FOR: **JP SICARD, INC.**
Address: PO BOX 508, BARTON, VT, 05822

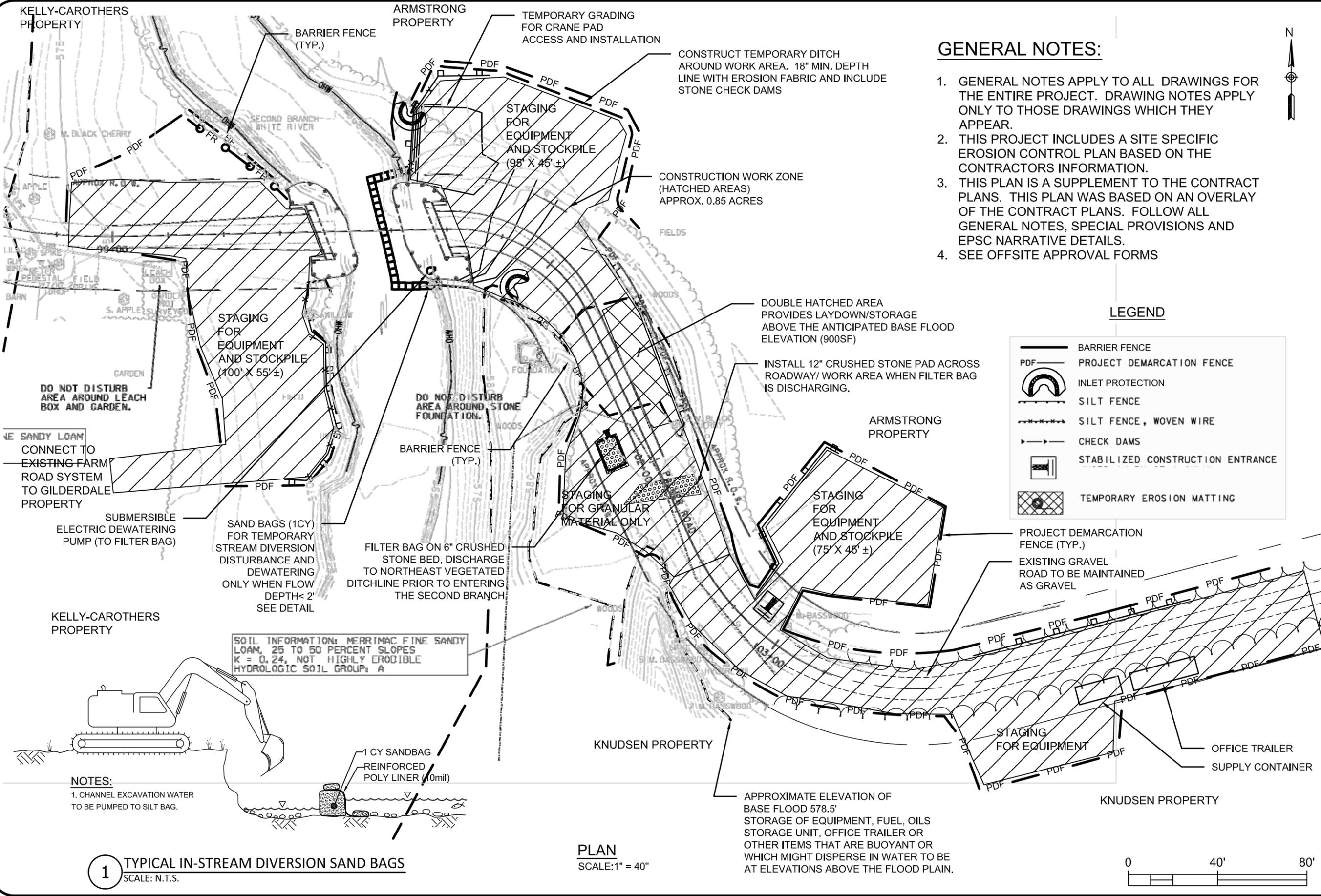
PHASE I SITE SPECIFIC EROSION CONTROL PLAN
RANDOLPH BRO 1444(57)

REVISIONS	No.	Description	Date
	1	ADD OFFSITE ACTIVITY DISTURBANCE AREAS	3/31/15

Designed: NPS
Drawn: NPS
Checked: -
DATE: 12/5/14

EPSC 1
Sheet of -

C:\Users\Sicard\Desktop\Projects\JPS - Randolph BRO 1444(57)\EPSC Plan\EPSC -PHI.dwg - 2015/03/31



RUGGLES ENGINEERING SERVICES, INC.
4860 MEMORIAL DRIVE ST. JOHNSBURY, VT 05869
Civil Engineering - Site Permitting
Water, Sewer and Stormwater System Designs
JOB No. 144071

JP SICARD, INC.
PO BOX 508, BARTON, VT, 05822

PHASE II SITE SPECIFIC EROSION CONTROL PLAN
RANDOLPH BRO 1444(57)

PREPARED FOR: Address

REVISIONS	No.	Description	Date
	1	ADD OFFSITE ACTIVITY/DISTURBANCE AREAS	3/31/15

Designed: NPS
Drawn: NPS
Checked: -
DATE: 12/5/14

EPSC2
Sheet of -

C:\Users\Sicard\Desktop\Projects\JPS - Randolph BRO 1444(57)\EPSC Plan\EPSC - PHIII.dwg - 2015/03/31

KELLY-CAROTHERS PROPERTY

ARMSTRONG PROPERTY

REESTABLISH ORIGINAL DITCHLINE, UNCLUE EROSION MATTING AND STONE CHECK DAMS

FARMLAND TO BE SEEDED WITH WINTER RYE OR AS REQUIRED BY FARMER

ROLLED EROSION CONTROL MATTING HATCHED AREA (TYP.)

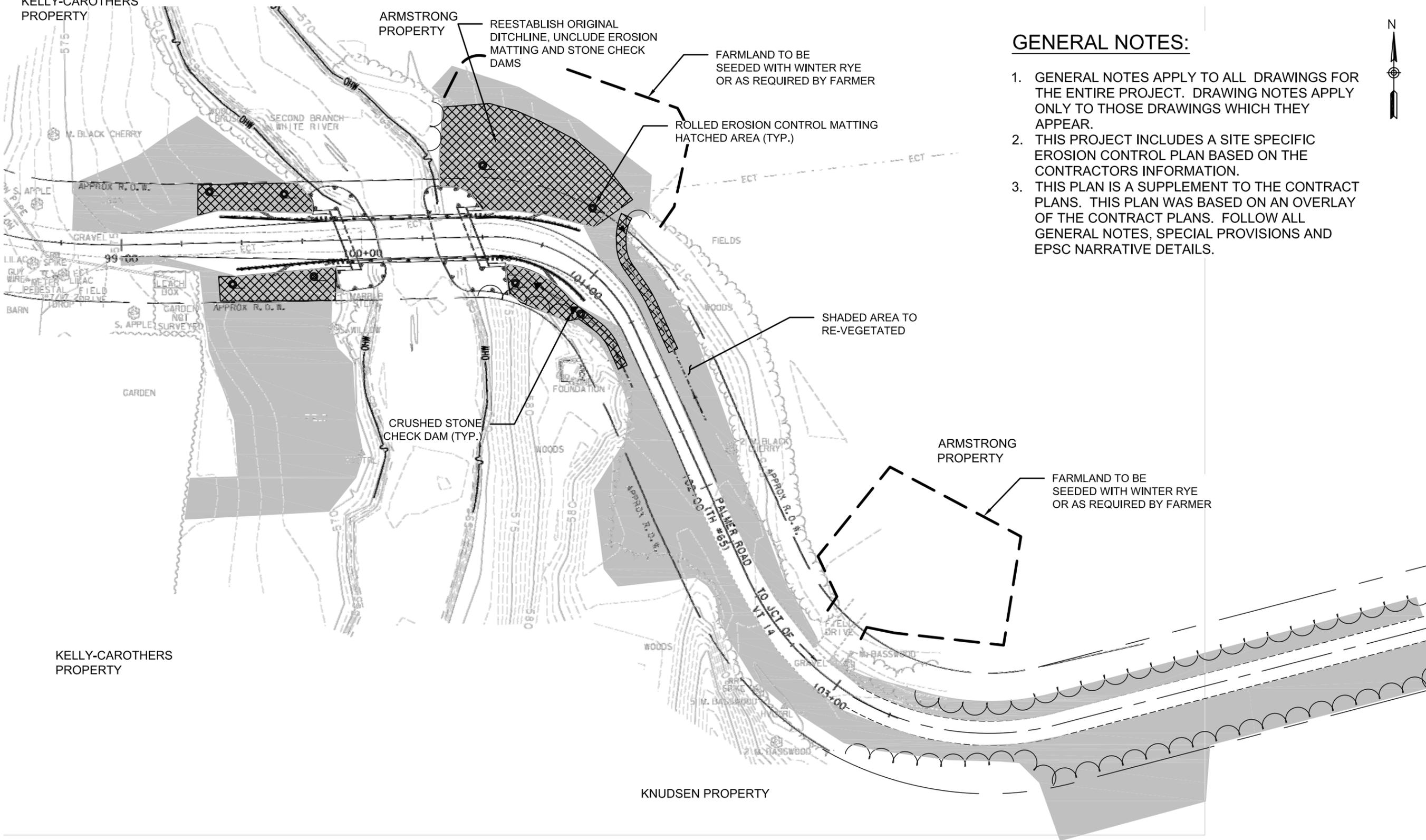
SHADED AREA TO RE-VEGETATED

ARMSTRONG PROPERTY

FARMLAND TO BE SEEDED WITH WINTER RYE OR AS REQUIRED BY FARMER

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.

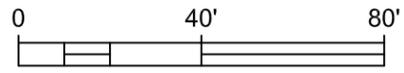


KELLY-CAROTHERS PROPERTY

KNUDSEN PROPERTY

KNUDSEN PROPERTY

PLAN
SCALE: 1" = 40"



RUGGLES
ENGINEERING SERVICES, INC.
4860 MEMORIAL DRIVE ST. JOHNSBURY, VT 05819
Civil Engineering - Site Permitting
Water, Sewer and Stormwater System Designs
JOB No. 14071

PREPARED FOR:
JP SICARD, INC.
PO BOX 508, BARTON, VT, 05822

Address

Date

REVISIONS	No.	Description	Date
	1	ADD OFFSITE ACTIVITY DISTURBANCE	3/31/15

Designed: NPS
Drawn: NPS
Checked: -
DATE: 12/5/14

EPSC3

Sheet of -

PHASE III SITE SPECIFIC EROSION CONTROL PLAN
RANDOLPH BRO 1444(57)

VAOT RURAL AREA MIX					
% WEIGHT	LBS/AC		NAME	GERM %	PURITY %
	BROADCAST	HYDROSEED			
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					
% WEIGHT	LBS/AC		NAME	GERM %	PURITY %
	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

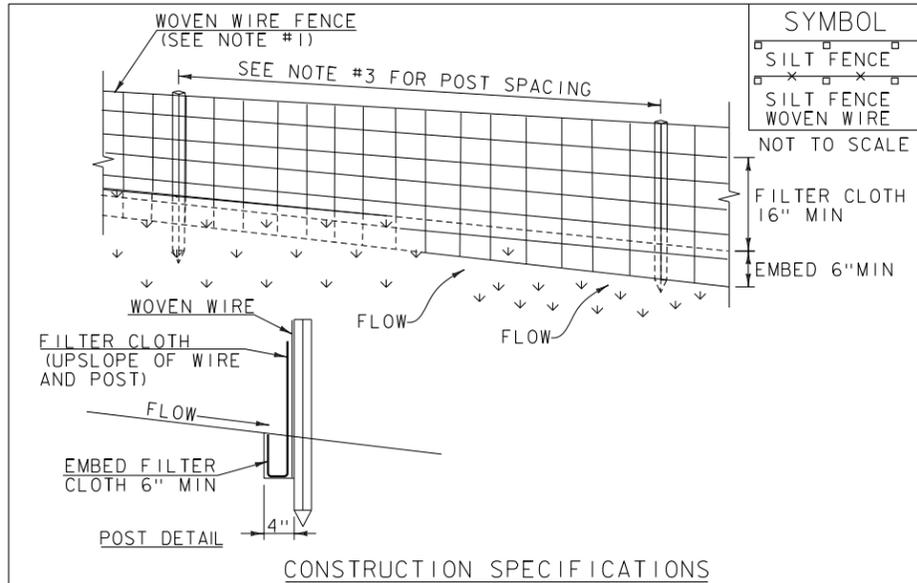
CONSTRUCTION GUIDANCE

- RURAL SEED MIX: USE AS INDICATED IN THE PLANS AND/OR FOR ALL ESTABLISHED UPLAND (NON WETLAND) AREAS DISTURBED BY THE CONTRACTOR.
- URBAN SEED MIX: USE AS INDICATED IN THE PLANS AND/OR FOR ALL ESTABLISHED LAWN AREAS DISTURBED BY THE CONTRACTOR.
- ALL SEED MIXTURES: SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY WEIGHT AND SHALL BE FREE OF ALL NOXIOUS SEED.
- FERTILIZER AND LIMESTONE: SHALL FOLLOW RATES SHOWN ON PLAN OR AS DIRECTED BY THE ENGINEER
- 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.
- TOPSOIL: TO BE USED WITH SEED AS INDICATED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.
- 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
- 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

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



- CONSTRUCTION SPECIFICATIONS**
- 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.
 - FILTER CLOTH SHALL BE EITHER FILTER X, MIRAF1100X, STABILINKA T140N OR APPROVED EQUIVALENT.
 - 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'.
 - 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.
 - WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY 6" AND FOLDED.
 - MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN SEDIMENT REACHES HALF OF FABRIC HEIGHT.

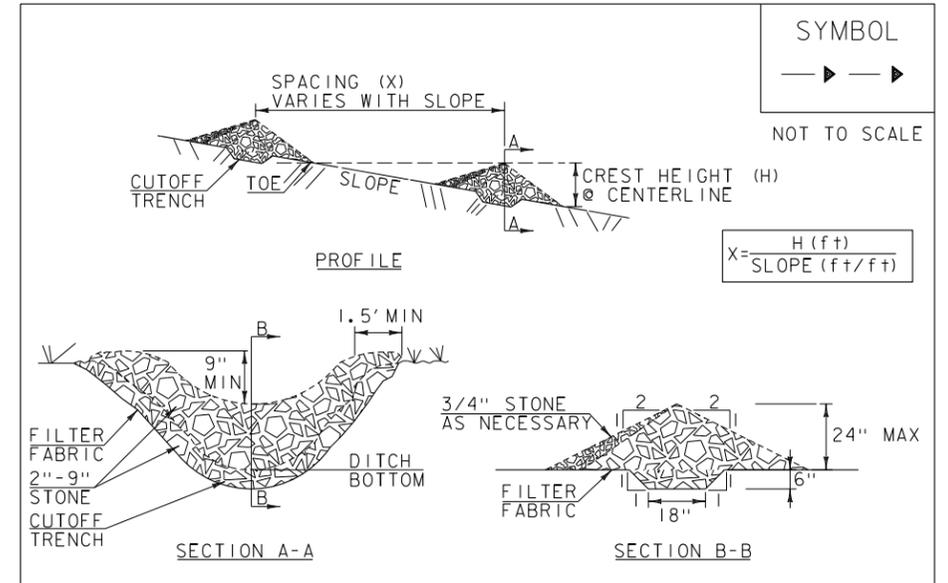
ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC
ORIGINALLY DEVELOPED BY USDA-NRCS
VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

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



- CONSTRUCTION SPECIFICATIONS**
- STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION.
 - CHECK DAMS SHALL BE SPACED SO THAT THE ELEVATION OF THE CREST OF THE DOWNSTREAM DAM IS AT THE SAME ELEVATION AS THE TOE OF THE UPSTREAM DAM.
 - 3/4" FILTERING STONE MAY BE ADDED TO THE FACE OF THE CHECK DAM AS NECESSARY.
 - EXTEND THE STONE A MINIMUM OF 1.5' BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
 - PROTECT CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.
 - ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONE.
 - MAXIMUM DRAINAGE AREA 2 ACRES.

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

CHECK DAM

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 TEMPORARY STONE CHECK DAM, TYPE I (PAY ITEM 653.25)

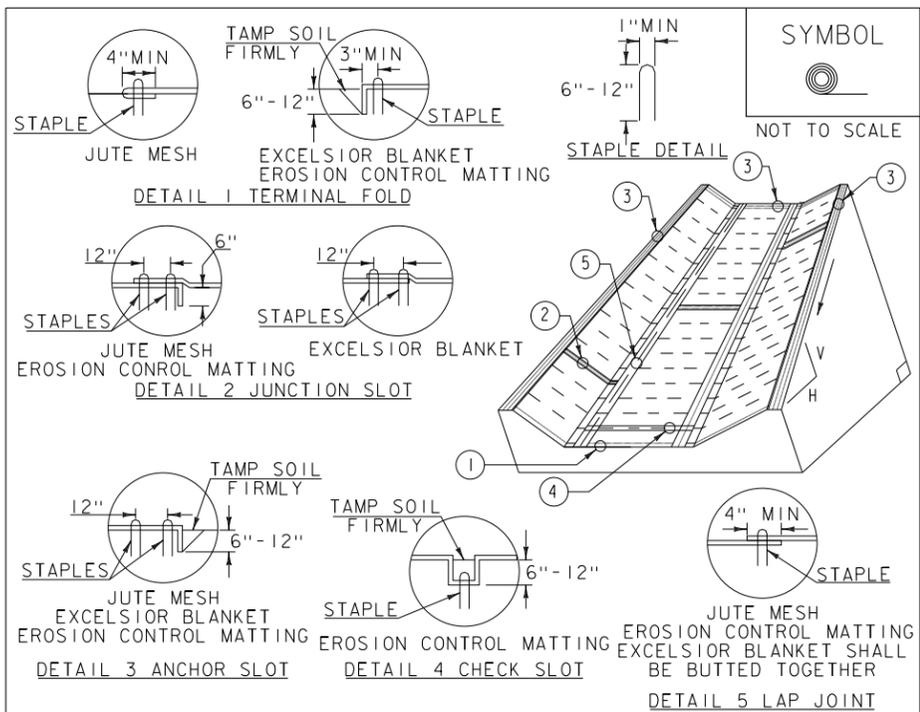
REVISIONS	
MARCH 21, 2008	WHF
JANUARY 8, 2009	WHF



PROJECT NAME: RANDOLPH
PROJECT NUMBER: BRO 1444(57)

FILE NAME: z11j078erode.t.dgn
PROJECT LEADER: J. BYATT
DESIGNED BY: J. SMITH
EPSC DETAILS I

PLOT DATE: 8/12/2014
DRAWN BY: S. GOODWIN
CHECKED BY: D. MUNRO
SHEET 37 OF 39



CONSTRUCTION SPECIFICATIONS

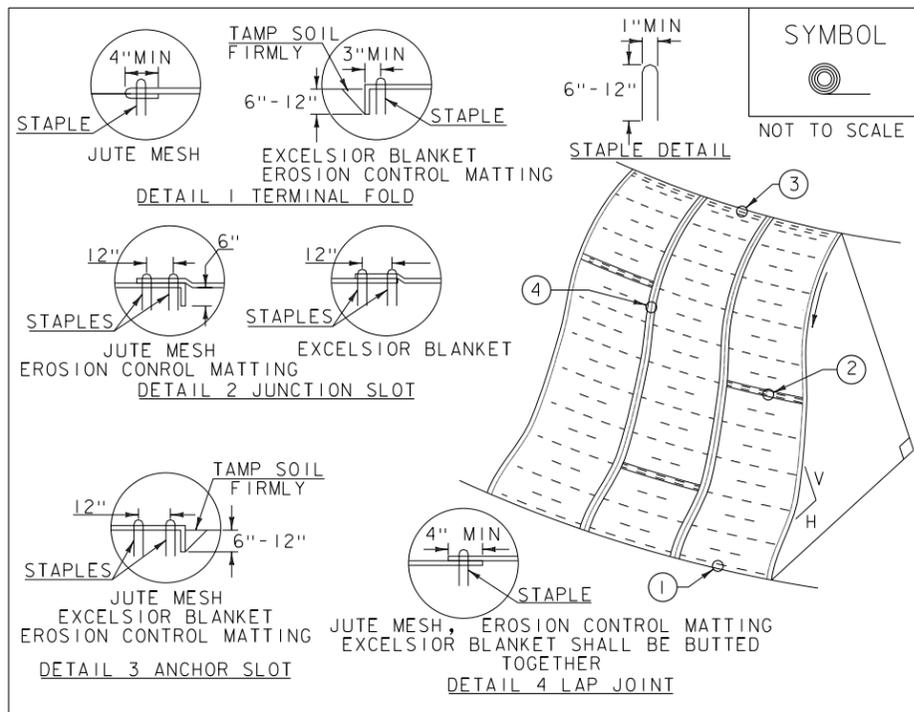
1. EROSION MATTING, CHECK SLOTS, SHALL BE SPACED IN DITCH CHANNEL SO THAT ONE OCCURS WITHIN EACH 50' ON SLOPES OF MORE THAN 4% AND LESS THAN 6%. ON SLOPES OF 6% OR MORE, THEY SHALL BE SPACED SO THAT ONE OCCURS WITHIN EACH 25'.
2. APPLY FERTILIZER, LIME SEED PRIOR TO PLACING MATTING.
3. STAPLES ARE TO 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) DITCH

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		
MARCH 8, 2007	JMF	
APRIL 16, 2007	WHF	
JANUARY 13, 2009	WHF	



CONSTRUCTION SPECIFICATIONS

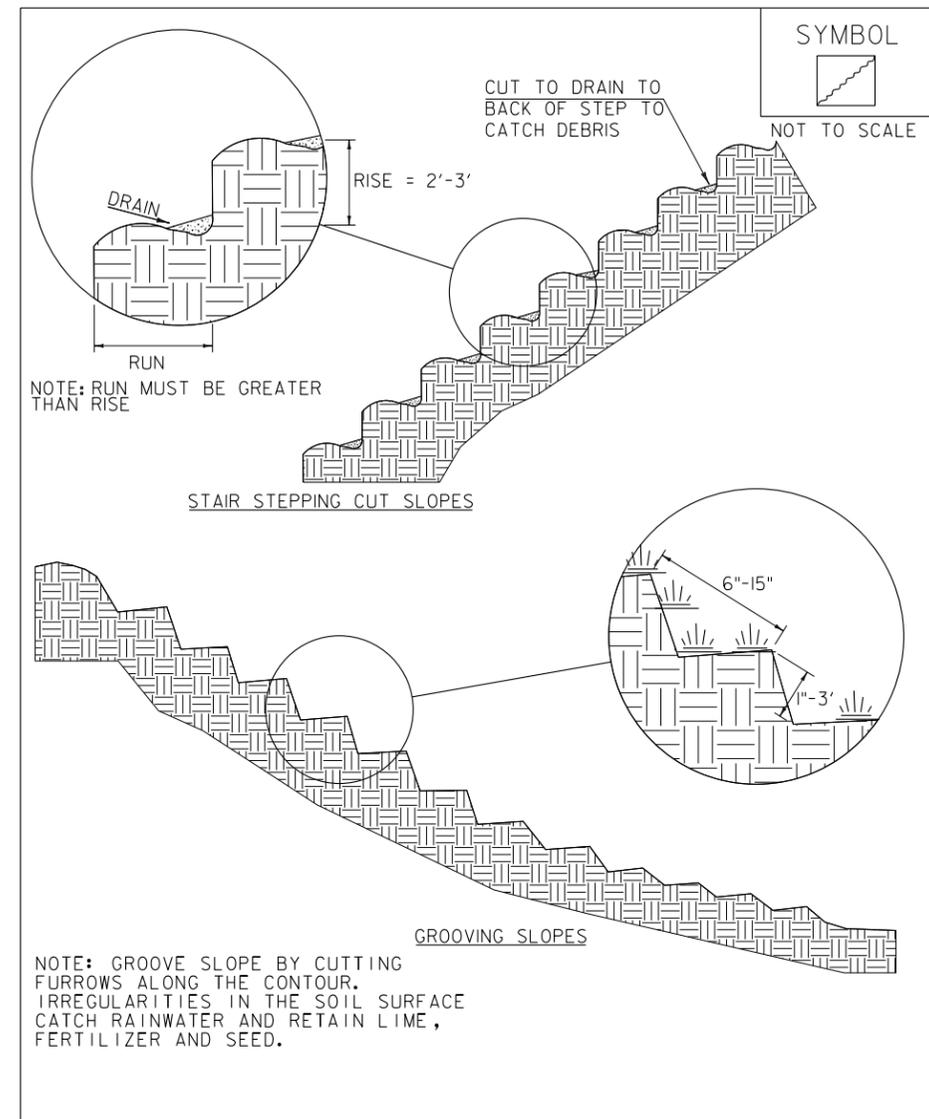
1. APPLY TO SLOPES GREATER THAN 3H:1V OR WHERE NECESSARY TO AID IN ESTABLISHING VEGETATION.
2. APPLY FERTILIZER, LIME SEED PRIOR TO PLACING MATTING.
3. STAPLES ARE TO BE PLACED ALTERNATELY, IN COLUMNS APPROXIMATELY 2' APART AND IN ROWS APPROXIMATELY 3' APART. APPROXIMATELY 175 STAPLES ARE REQUIRED PER 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	



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

SURFACE ROUGHENING

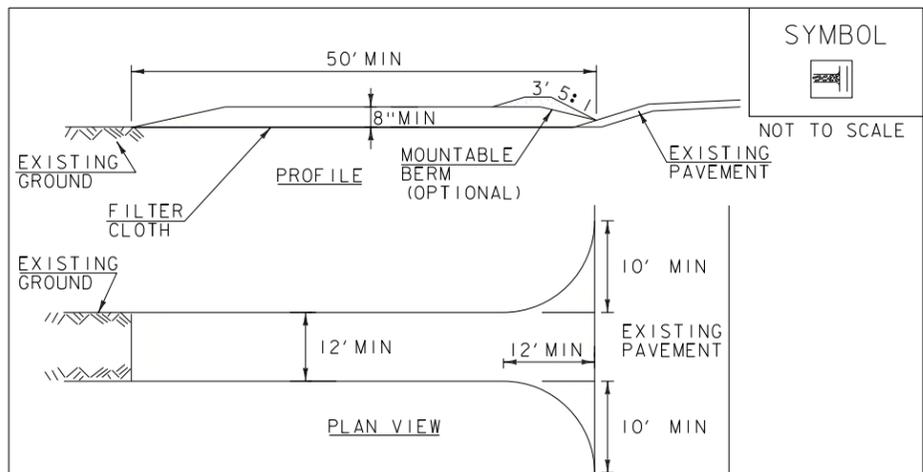
NOTES:
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006- "FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.
THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT

REVISIONS		
APRIL 1, 2008	WHF	
JANUARY 13, 2009	WHF	



PROJECT NAME: RANDOLPH
PROJECT NUMBER: BRO 1444(57)
FILE NAME: z11j078erode.t.dgn
PROJECT LEADER: J. BYATT
DESIGNED BY: J. SMITH
EPSC DETAILS 2

PLOT DATE: 8/12/2014
DRAWN BY: S. GOODWIN
CHECKED BY: D. MUNRO
SHEET 38 OF 39



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.

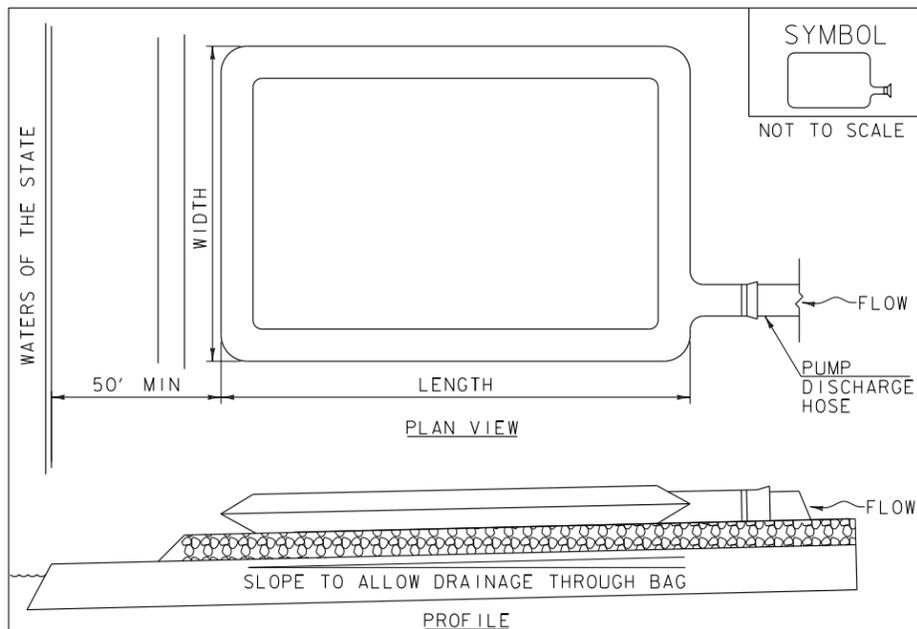
THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 653 FOR VEHICLE TRACKING PAD (PAY ITEM 653.35) OR AS SPECIFIED IN THE CONTRACT.

REVISIONS	
MARCH 24, 2008	WHF
JANUARY 13, 2009	WHF

SYMBOL



NOT TO SCALE



CONSTRUCTION SPECIFICATIONS

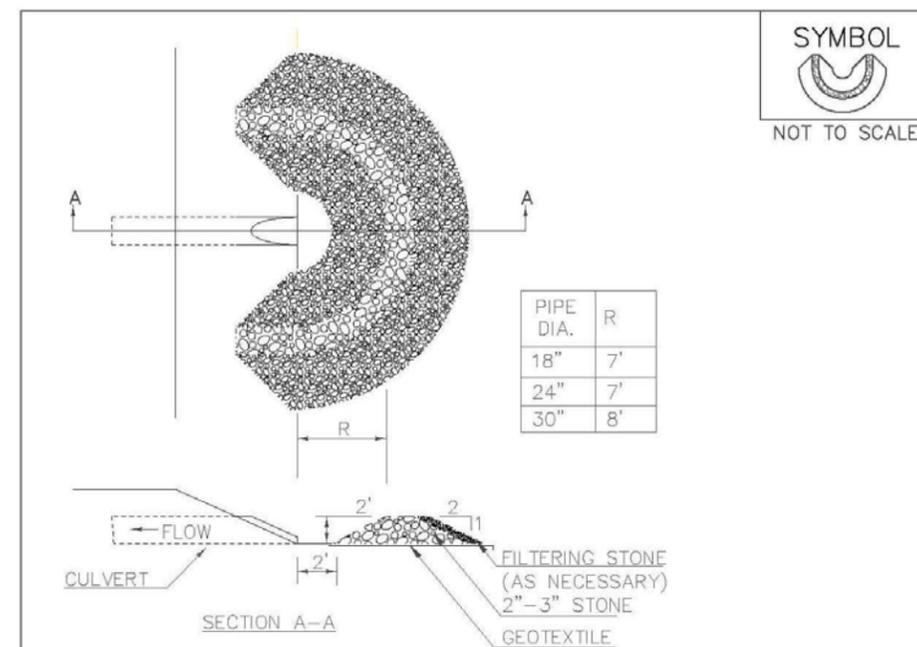
1. THE PRIMARY PURPOSE OF FILTER BAG IS TO RETAIN SILT, SAND, AND FINES DURING DEWATERING OPERATIONS.
2. FILTER BAGS SHALL BE INSTALLED ON A VEGETATED SLOPE GRADED TO ALLOW INCOMING WATER TO FLOW THROUGH THE BAG.
3. FILTER BAGS MAY ALSO BE PLACED ON COARSE AGGREGATE, STONE, OR HAYBALES TO INCREASE FILTRATION EFFICIENCY.
4. FILTER BAGS SHALL BE LOCATED A MINIMUM OF 50' FROM WATERS OF THE STATE UNLESS OTHERWISE APPROVED BY THE ENGINEER.
5. THE NECK OF THE FILTER BAG SHALL BE STRAPPED TIGHTLY TO THE DISCHARGE HOSE.
6. A FILTER BAG IS FULL WHEN IT NO LONGER CAN EFFICIENTLY FILTER SEDIMENT OR ALLOW WATER TO PASS AT A REASONABLE RATE.
7. FILTER BAG SHALL BE DISPOSED OF AS APPROVED IN THE EPSC PLAN OR AS DIRECTED BY THE ENGINEER.

FILTER BAG

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 FILTER BAG (PAY ITEM 653.45) AND AS SPECIFIED IN THE CONTRACT.

REVISIONS	
MARCH 24, 2008	WHF
JANUARY 13, 2009	WHF



CONSTRUCTION SPECIFICATIONS

1. USE 2" TO 3" STONE. FILTERING STONE SHALL BE 3/4".
2. PLACE STONE OVER GEOTEXTILE.
3. ONCE THE AREAS UPSTREAM FROM THE CHECK DAM ARE STABILIZED WITH VEGETATION, THE SEDIMENT TRAPPED BEHIND THE DAM SHALL BE DISPOSED OF IN AN APPROVED WASTE AREA.
4. THE CHECK DAM(S) SHALL BE FLATTENED AND GRADED IN A MANNER WHICH PROTECTS THE AREA FROM EROSION AND CHANNEL BLOCKAGE. (GEOTEXTILE MUST BE REMOVED).
5. THE GEOTEXTILE MUST BE DISPOSED OF APPROPRIATELY.
6. THE AREA CONTRIBUTING TO THE CHECK DAM SHALL NOT EXCEED 4 ACRES.

ADAPTED FROM DETAILS PROVIDED BY:
ILLINOIS USDA-NRCS ORIGINALLY DEVELOPED BY USDA-NRCS

PIPE INLET PROTECTION

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 653 FOR INLET PROTECTION DEVICE, TYPE I (PAY ITEM 653.40).

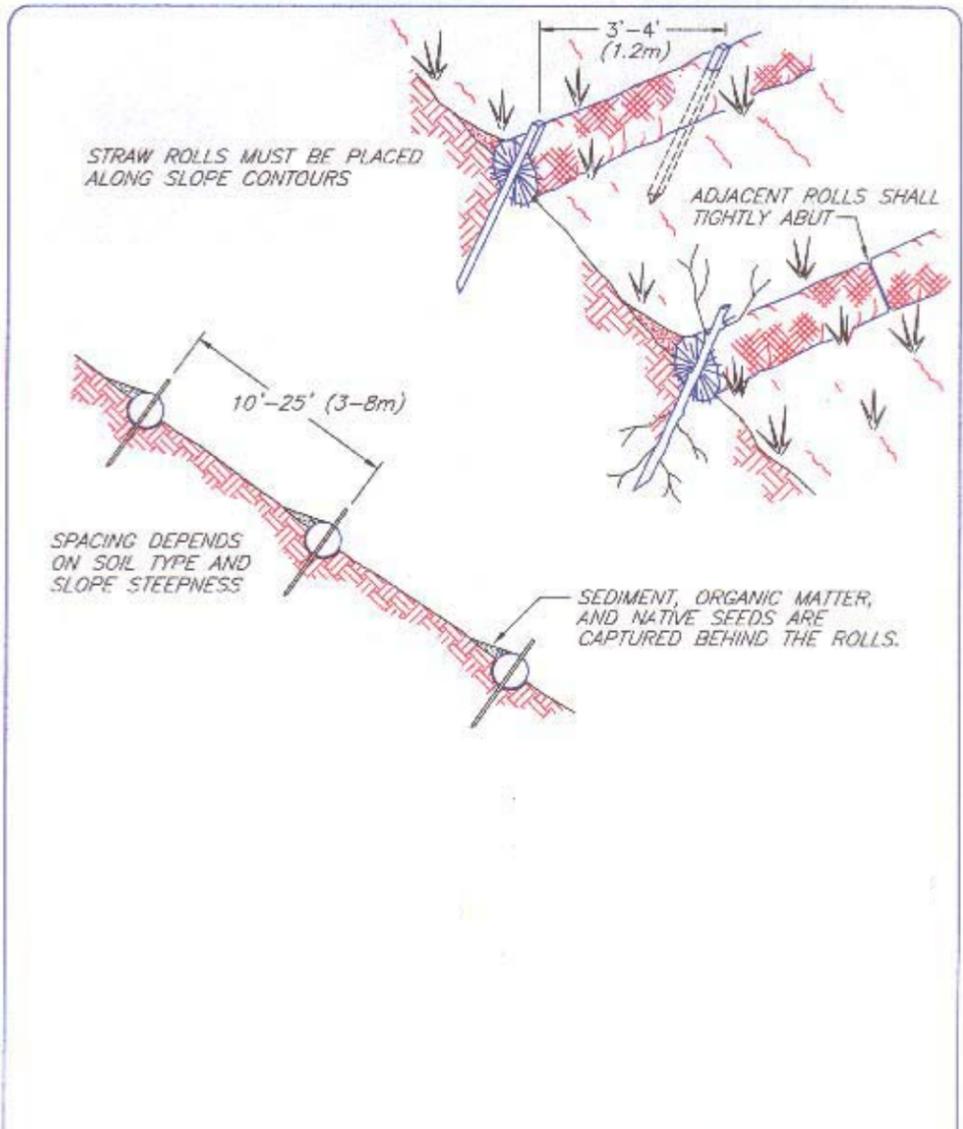
REVISIONS	
MARCH 6, 2008	WHF
JANUARY 13, 2009	WHF



PROJECT NAME: RANDOLPH
PROJECT NUMBER: BRO 1444(57)

FILE NAME: z11j078erode.t.dgn
PROJECT LEADER: J. BYATT
DESIGNED BY: J. SMITH
EPSC DETAILS 3

PLOT DATE: 8/12/2014
DRAWN BY: S. GOODWIN
CHECKED BY: D. MUNRO
SHEET 39 OF 39



NOTE:
 1. STRAW ROLL INSTALLATION REQUIRES THE PLACEMENT AND SECURE STAKING OF THE ROLL IN A TRENCH, 3"-5" (75-125mm) DEEP, DUG ON CONTOUR. RUNOFF MUST NOT BE ALLOWED TO RUN UNDER OR AROUND ROLL.

NOT TO SCALE

STRAW ROLLS