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TRANSMITTAL

TO: Kristin M. Higgins, PE Project Manager Vermont Agency of Transportation	DATE	PROJECT NO.
	12/26/2013	Barnard ER BRF 0241 (39)

XX

WE ENCLOSE THE FOLLOWING:

UNDER SEPARATE COVER WE ARE SENDING THE FOLLOWING

COPIES	NUMBER	DESCRIPTION	CODE
1		EPSC Plan - Rev0	H

CODE:

A FOR INITIAL APPROVAL

B FOR FINAL APPROVAL

C APPROVED AS NOTED-RESUBMISSION REQUIRED

D APPROVED AS NOTED-RESUBMISSION NOT REQUIRED

E DISAPPROVED-RESUBMIT

F QUOTATION REQUESTED

G APPROVED

H FOR APPROVAL

I AS REQUESTED OR REQUIRED

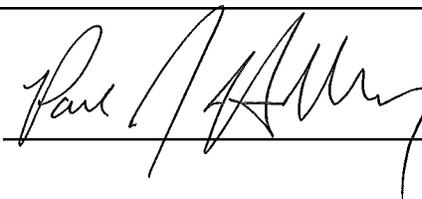
J FOR USE IN ERECTION

K LETTER FOLLOWS

L FOR FIELD CHECK

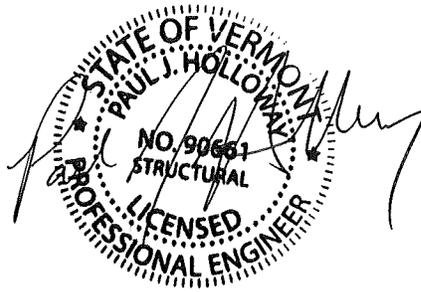
M FOR YOUR USE

BY:



EROSION PREVENTION AND SEDIMENT CONTROL PLAN
for
State of Vermont Project: Barnard ER BRF 0241 (39)

Town of: Barnard, Vermont
County of: Windsor



12/26/13

Prepared By:

Miller Construction, Inc.
P.O. Box 86
Windsor, VT 05089
Tel. (802) 674-5525
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December 26, 2013

***EROSION PREVENTION AND SEDIMENT CONTROL PLAN
FOR
State of Vermont Project: Barnard ER BRF 0241 (39)***

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Erosion Prevention and Sediment Control Plan
Barnard ER BRF 0241 (39)

General Project Description and Timetable

The Barnard ER BRF 0241 (39) Project involves the replacement of Bridge 25 which is located in the Town of Barnard on Vermont Route 12 beginning at Mile Post 7.0195 and ending at Mile Post 7.0535. There is currently a Temporary Bridge in place that was installed after Tropical Storm Irene. The new structure will be approximately 88 feet in length with 97 feet of roadway work.

The Project is anticipated to last one construction season.

Erosion Prevention and Sediment Control Plan

There are eight main phases to the Barnard ER BRF 0241 (39) Project.

Phase I. Mobilization, Office Trailers, Erosion Control and Traffic Control

Phase II. Removal of Temporary Bridge

Phase III. Excavation and Piles

Phase IV. Installation of Precast Abutments

Phase V. Installation of Stone Fill

Phase VI. Installation of Precast Superstructure

Phase VII. Approach Work and Paving

Phase VIII. Final Soil Stabilization and Clean-up

Phase I:

The Engineer's Office Trailer shall be located on the adjacent property owned by Ralph Ward off the Southeast corner of the Project. As this location is a special flood hazard area, no fill shall be staged, and no fuel storage of any kind shall occur in this area. Additionally, in order to meet National Flood Insurance Program (NFIP) requirements and to prevent flood damage, the Engineer's Office Trailer shall be adequately anchored to the ground with pins and straps to prevent flotation or lateral movement in the event of a flood.

Silt fence and project demarcation fence shall be installed prior to any earth moving work. Clearing may be performed prior to installation, but grubbing shall only occur after the silt fence and project demarcation fence are in place.

Anti-tracking pads shall be installed at entrances to the site per Sheet E3 and the Standard Specification prior to any vehicular traffic leaving the site after earth moving activities have begun.

A filter curtain shall be installed per Sheet E3 and the Standard Specification prior to any channel work.

Erosion Prevention and Sediment Control Plan
Barnard ER BRF 0241 (39)

Phase II:

The Temporary Bridge is a manufactured bridge by Acrow that includes metal deck panels. Prior to removal, the deck panels shall be inspected and any loose material shall be cleaned. Should any material or debris fall into Locust Creek, it shall be immediately retrieved.

Review of this EPSC Plan with personnel shall be included as part of the Temporary Bridge Removal Plan.

During removal of the approaches, disturbed soil shall be stabilized at the end of each work day with 3 inches of mulch hay and subsequent netting, unless there is no precipitation forecast within 24 hours, and work will resume at the same disturbed area within 24 hours.

Phase III:

During excavation, disturbed soil shall be stabilized at the end of each work day with 3 inches of mulch hay and subsequent netting, unless there is no precipitation forecast within 24 hours, and work will resume at the same disturbed area within 24 hours.

Any spoils produced by the drilling of rock shall not be allowed to reach Locust Creek. Timely removal of spoils shall be the primary measure to eliminate this risk.

No additional erosion control measures shall be required for pile installation.

Phase IV:

It is not anticipated that dewatering of the excavation is necessary to install the Precast Abutments. However, measures shall be on site (including but limited to a filter bag) for treating any sediment laden water should dewatering become necessary. Should this be the case, it shall be documented in the weekly report and recorded on the EPSC Plan Sheets.

Phase V:

A filter curtain shall be installed per Sheet E3 and the Standard Specification prior to any channel work / stone fill.

Phase VI:

Precast units shall be inspected and any loose material shall be cleaned. Should any material or debris fall into Locust Creek, it shall be immediately retrieved.

Review of this EPSC Plan with personnel shall be included as part of the Precast Unit Erection Plan.

Prior to placement on the superstructure closure pours, formwork shall be inspected by the On-Site Coordinator in regard to the potential of concrete escaping around the edges of the form. Inspections during and after the placement shall also occur.

Erosion Prevention and Sediment Control Plan
Barnard ER BRF 0241 (39)

Phase VII:

No additional erosion control measures shall be required for approach work and paving.

Phase VIII:

Removal of all temporary erosion control measures shall be performed after all final erosion control measures are in place and vegetation has been established.

Additional Erosion Prevention and Sediment Control Notes:

It is anticipated that all site disturbance activities will occur between April 15th and October 15th. However, should site disturbance activities be required outside of these dates, requirements per *The Low Risk Site Handbook for Erosion Prevention and Sediment Control* shall be adhered to.

Measures included in this plan, but not limited to, are as follows:

1. Mulch shall be applied at twice the specified rate (3 inch minimum with 80% - 90% cover). Snow and Ice buildup shall be limited to 1 inch or less. In excess of 1 inch of snow and ice shall be removed before the mulch is applied.
2. Erosion Control Matting to protect the mulch from the wind. Erosion Control Matting shall be installed over the hay mulch once final grade is established.
3. Construction Entrances shall be maintained throughout the winter period.
4. Snow Removal: Prior to snowfall, the snow stockpile areas shall be reviewed with the Resident Engineer. Snow removal areas shall be 25' feet from silt fence lines.
5. Monitoring: Monitoring shall be done daily at un-stabilized areas. Areas with installed temporary erosion control measures, monitoring shall be completed per standard guidelines.

Engineer's Trailer and Waste Areas:

The Engineer's Office Trailer shall be located on the adjacent property owned by Ralph Ward off the Southeast corner of the Project. Off-Site Activity Review is attached and shall be filed with the Resident Engineer.

The waste area for the project includes the property located at 301 Rogers Lane in Bethel, VT, owned by Paul Rogers. Off-Site Activity Review and Insignificant Waste Management Event Approval are attached and shall be filed with the Resident Engineer.

Erosion Prevention and Sediment Control Plan
Barnard ER BRF 0241 (39)

On Site Plan Coordinator and Qualifications:

Miller Construction, Inc. has designated Raymond Estey as the on-site plan coordinator. Mr. Estey has been working in the construction industry for over 28 years, 19 of which have been in a supervisory position with Miller Construction, Inc. Raymond has completed numerous VTrans and NH DOT projects throughout his career. This experience has made him familiar with construction practices as related to erosion and sediment control. Raymond will be responsible for the weekly monitoring reports, informing the Resident Engineer of any changes to the Erosion Prevention and Sediment Control Plan, and subsequent documentation.

Monitoring Erosion Prevention and Sediment Control:

The monitoring requirements are as follows:

Active Construction: Inspection shall occur once every seven calendar days and within 24 hours of the end of a storm event that results in a discharge of storm water from the site. During the winter construction season (October 15th - April 15th), inspection at all sites shall occur daily.

Total area of disturbance is approximately 0.52 acres. The project does not fall under the jurisdiction of General Permit 3-9020. Inspections shall be conducted using the enclosed agency's EPSC Plan Inspection Report for Low Risk Projects.

Immediate action shall be taken to correct the discharges of sediment, including halting or reducing construction activities as necessary, until the discharge and/or the condition is fully corrected. Corrective actions shall be recorded on the monitoring reports and shown on the EPSC Plan. Each report shall be signed by the On-site Plan Coordinator.

Inactive Construction: Periods such as shutdown during the winter season shall require inspection and reporting of erosion prevention and sediment control measures. The contractor shall contact the Engineer prior to conducting any inspections. The inspections shall be conducted at least once every 30 days and within 24 hours of any storm or significant snowmelt event that may cause storm water runoff to leave the construction site. The contractor shall provide, within 24 hours, the necessary personnel, equipment, and materials to repair or correct any deficiencies identified during inspection. All deficiencies and corrective measure taken shall be documented on the reports.

Copies of all reports shall be submitted to the Engineer within 24 hours of inspection or when corrective measures were taken. Copies of all reports shall be kept on site in the Contractor's project files.

Erosion Prevention and Sediment Control Plan
Barnard ER BRF 0241 (39)

Plan Preparer:

This Plan has been prepared by Paul Holloway, VT P.E. Credential Number 90661.

Plan Preparer Contact Information:

Paul Holloway: (802) 291-2771

Project Contact Information:

Raymond Estey: (802) 369-0614

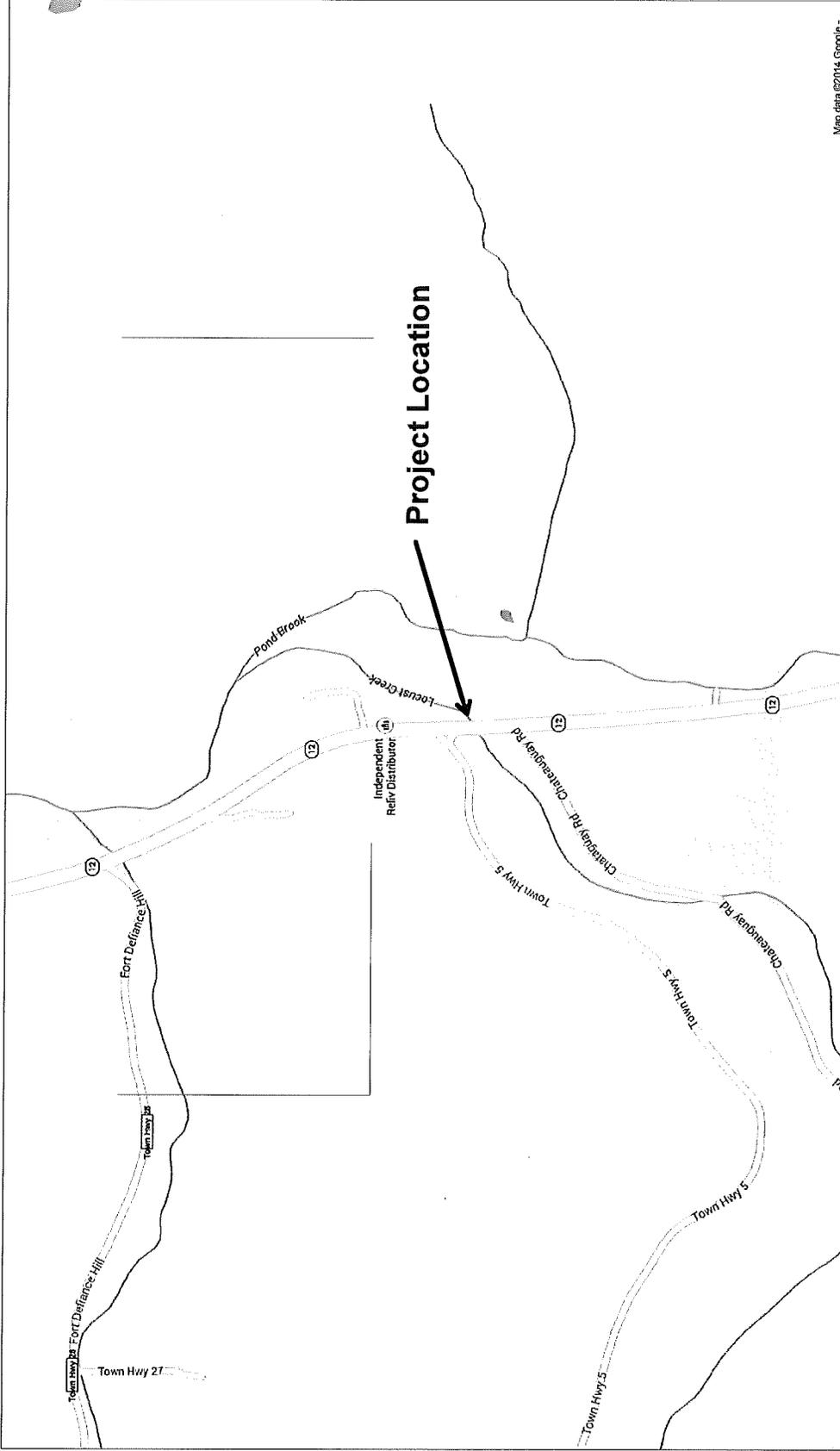
Miller Construction, Inc. Office: (802) 674-5525

Paul Holloway: (802) 291-2771

John Lavoie: (802) 356-9739

Attachment 1

Location Map and EPSC Drawings



Miller Construction, Inc.	
Windsor, Vermont	
Barnard ER BRF 0241 (39)	
EPSC Plan	
Erosion Control	
Location Map	
Date	11/15/2013
Scale	NTS
Sheet	
E1	

EPSC PLAN NARRATIVE

1.1 PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE REPLACEMENT OF BRIDGE 25 WITH RELATED APPROACH AND CHANNEL WORK. THE PROJECT LOCATION IS IN THE TOWN OF BARWARD, VT ON VERMONT ROUTE 12, BEGINNING AT MILE POST 7.0195 (STA 370+00) AND ENDING AT MILE POST 7.0595 (STA 371+95).

THE NEW STRUCTURE WILL BE APPROXIMATELY 88 FEET IN LENGTH WITH 97 FEET OF ROADWAY WORK.

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 0.52 ACRES.

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

1.2 SITE INVENTORY

1.2.1 TOPOGRAPHY
THE TOPOGRAPHY OF THE PROJECT AREA IS RELATIVELY FLAT WITH STEEP BANKS ALONG THE CHANNEL AND ALONGSIDE WING WALLS ONE AND FOUR.

1.2.2 DRAINAGE, WATERWAYS, BODIES OF WATER, AND PROXIMITY TO NATURAL OR MAN-MADE WATER FEATURES
LOCUST CREEK IS THE ONLY WATER SOURCE ON THE PROJECT SITE.

THE CREEK IS CLASSIFIED AS SINOLOUS, ALLUVIAL, WITH A CONFINED AND ARMORED CHANNEL AT THE SITE. THE STREAM BED CONSISTS OF GRAVEL, COBBLES, AND BouldERS. A TRIBUTARY AREA AT THE BRIDGE CROSSING IS 4.6 MILES². THERE ARE A NUMBER OF DROP INLETS ON SITE DRAINING FROM THE ROADWAY TO THE BROOK. 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 HARDWOOD TREES AND UNDERGROWTH. 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 WINDSOR, VERMONT.

14B HINCKLEY SANDY LOAM 0% TO 8% SLOPES "K" FACTOR = 0.17
20E GLOVER-VERSHIRE COMPLEX 35% TO 60% SLOPES "K" FACTOR = 0.37 - 0.28
6B AGAWAM FINE SANDY LOAM 3% TO 8% SLOPES "K" FACTOR = 0.28

NOTE: K-VALUES GENERALLY INDICATE THE FOLLOWING:

0.04-0.23 = LOW EROSION POTENTIAL
0.24-0.36 = MODERATE EROSION POTENTIAL
0.37 AND HIGHER = HIGH EROSION POTENTIAL

1.2.5 SENSITIVE RESOURCE AREAS

CRITICAL HABITATS: NO
HISTORICAL OR ARCHEOLOGICAL AREAS: NO
PRIME AGRICULTURAL LAND: NO
THREATENED AND ENDANGERED SPECIES: NO
WATER RESOURCE: LOCUST CREEK
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 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

THESE EROSION CONTROL PLANS ARE MEANT AS A GUIDE LINE 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 PROJECT MEANS AND METHODS OF THE CONTRACTOR. REFER TO THE LOW RISK SITE MAP, CHECK 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 AS SHOWN ON THE PLANS.

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 AREAS 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.

FILTER CURTAIN 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.

THE IMMEDIATE PROJECT AREA IS NOT LIKELY TO BE IMPACTED BY RUNOFF FROM UPSLOPE AREAS. THEREFORE IT IS NOT ANTICIPATED THAT DIVERSION MEASURES WILL BE NECESSARY. CONTRACTOR TO INSTALL DIVERSION MEASURES IF IT IS 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.

TEMPORARY CHECK DAMS WILL BE INSTALLED AS PROPOSED ON THE EPSC PLAN.

1.4.7 CONSTRUCT PERMANENT CONTROLS

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

THERE ARE NO PERMANENT STORM WATER TREATMENT DEVICES 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.

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 SHALL BE USED OR CONTRIBUTE TO A VIOLATION OF THE VERMONT WATER QUALITY STANDARDS.

IT IS NOT ANTICIPATED THAT DEWATERING WILL BE NECESSARY.

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.

Miller Construction, Inc.
Windsor, Vermont

Barward ER BRF 0241 (39)

EPSC Plan

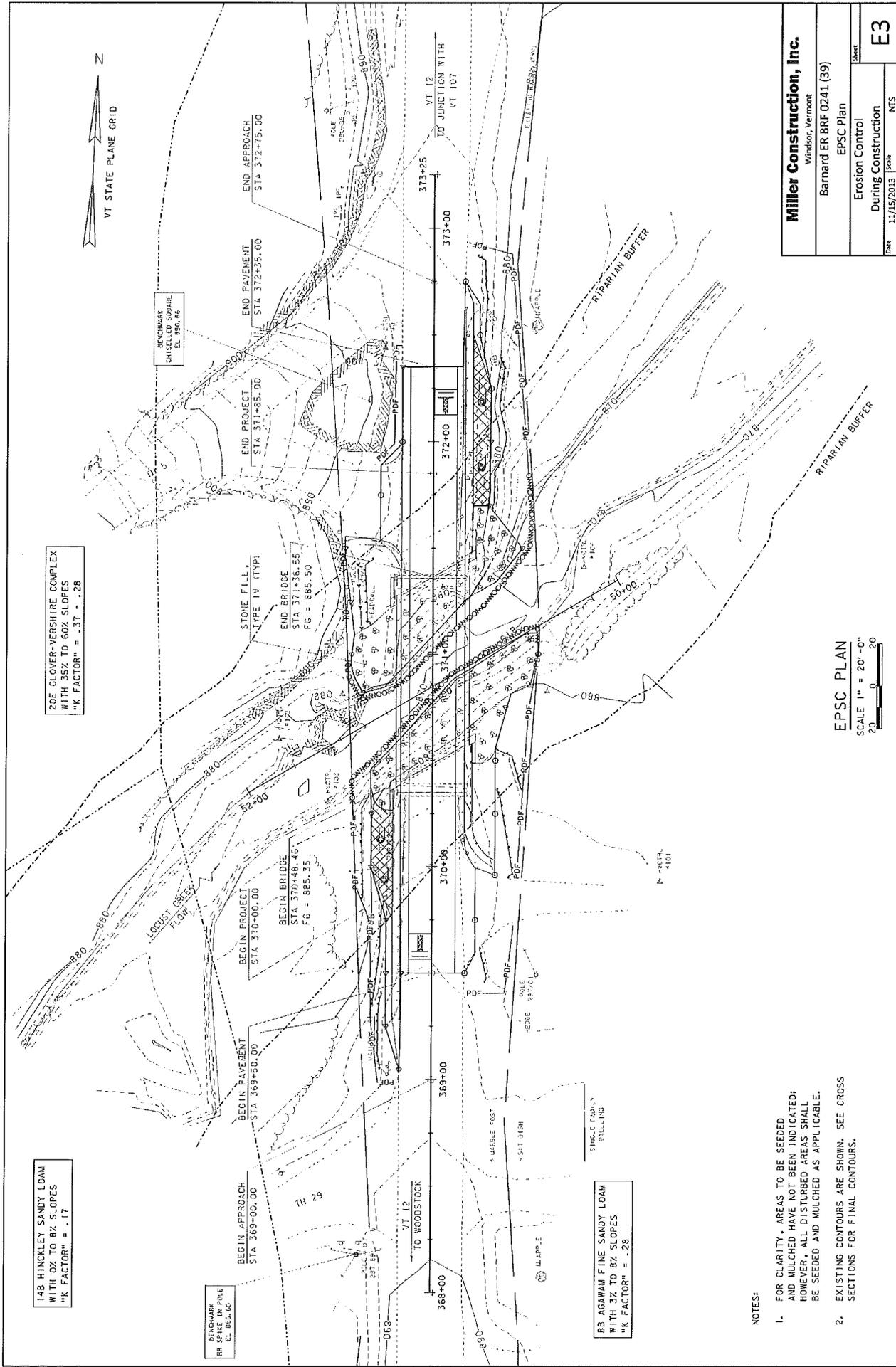
Erosion Control

Narrative

Date: 11/15/2013 Scale: NTS

Sheet

E2



14B HINKLEY SANDY LOAM
WITH 0% TO 8% SLOPES
"K FACTOR" = .17

BENCHMARK
RR SPIKE IN POLE
EL. 846.50

BEGIN APPROACH
STA 369+00.00

BEGIN PAVEMENT
STA 369+50.00

BEGIN PROJECT
STA 370+00.00

BEGIN BRIDGE
STA 370+48.46
FG = 885.35

STONE FILL
TYPE IV (TYP)

END BRIDGE
STA 371+36.55
FG = 885.50

END PROJECT
STA 371+85.00

END PAVEMENT
STA 372+35.00

END APPROACH
STA 372+75.00

BENCHMARK
CANTON SQUARE
EL. 880.86

BB AGAWAM FINE SANDY LOAM
WITH 3% TO 8% SLOPES
"K FACTOR" = .28



NOTES:

- FOR CLARITY, AREAS TO BE SEED
AND MULCHED HAVE NOT BEEN INDICATED;
HOWEVER, ALL DISTURBED AREAS SHALL
BE SEED AND MULCHED AS APPLICABLE.
- EXISTING CONTOURS ARE SHOWN. SEE CROSS
SECTIONS FOR FINAL CONTOURS.

EPSC PLAN
SCALE 1" = 20'-0"
20' 0' 20'

Miller Construction, Inc. Windsor, Vermont	
Bernard ER BR# 0241 (39)	
EPSC Plan	
Erosion Control	
Date: 11/15/2013	Scale: NTS
SHEET E3	

Attachment 2

EPSC Standard Details

SYMBOL NOT TO SCALE

CONSTRUCTION SPECIFICATIONS

1. STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION.
2. CHECK DAMS SHALL BE SPACED SO THAT THE ELEVATION OF THE CREST OF THE DAM-STREAM DAM IS AT THE SAME ELEVATION AS THE TOE OF THE UPSTREAM DAM.
3. 24" x 18" FILTERING STONE MAY BE ADDED TO THE FACE OF THE CHECK DAM AS NECESSARY.
4. EXTEND THE STONE A MINIMUM OF 1.5' BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
5. PROTECT CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.
6. CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR DISCHARGE FROM DISPERSED STONE.
7. MAXIMUM DRAINAGE AREA 2 ACRES.

CHECK DAM

ADAPTED FROM DETAILS PROVIDED BY NEW YORK STATE DEC
VENMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

NOTES:
REFER TO THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL - 2008 - FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.
THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT ITEM 55.2.25

REVISIONS:
NOVEMBER 13, 2009 WJP
MAY 14, 2009 WJP

SYMBOL NOT TO SCALE

SURFACE ROUGHENING

ADAPTED FROM DETAILS PROVIDED BY NEW YORK STATE DEC
VENMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

NOTES:
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REVISIONS:
NOVEMBER 13, 2009 WJP
MAY 14, 2009 WJP

SYMBOL NOT TO SCALE

CONSTRUCTION SPECIFICATIONS

1. STONE SIZE - USE 1-4" CONCRETE OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH NOT LESS THAN 3" EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 2" LENGTH IS ACCEPTABLE.
3. THICKNESS - NOT LESS THAN 1".
4. LENGTH - 12" MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INCREASES OR DECREASES OCCUR. 24" IF SINGLE ENTRANCE TO SITE.
5. DEPTH MUST BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING STONE.
6. WATER - ALL SURFACES WHEN CLIPPING OR BURNING TOWARD CONSTRUCTION ENTRANCES SHALL BE WETTED BEFORE THE ENTRANCE IS PERMITTED. UNPAVED, UNPAVED, A DRAINABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH PERMITS THE FLOW OF WATER AND SEDIMENT TO BE REMOVED FROM THE PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WITH THE USE OF A RUBBER MAT, THE MAT SHALL BE PLACED AT THE ENTRANCE TO THE SITE AND SHALL BE REMOVED IMMEDIATELY UPON THE DEPARTURE OF THE VEHICLE.
9. PERIODIC INSPECTION AND REPAIRS SHALL BE PROVIDED.

STABILIZED ENTRANCE

ADAPTED FROM DETAILS PROVIDED BY NEW YORK STATE DEC
VENMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

NOTES:
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THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT

REVISIONS:
NOVEMBER 13, 2009 WJP
MAY 14, 2009 WJP

VAOT RURAL AREA MIX

LINER	NAME	GEN % PURITY %
1	45 CREeping RED FESCUE	85%
2	10 PERENNIAL RYE GRASS	85%
3	10 BIRDFOOT TREFOIL	85%
4	10 ANNUAL RYE GRASS	85%
5	100%	100%

VAOT URBAN AREA MIX

LINER	NAME	GEN % PURITY %
1	45 CREeping RED FESCUE	85%
2	10 PERENNIAL RYE GRASS	85%
3	10 BIRDFOOT TREFOIL	85%
4	10 ANNUAL RYE GRASS	85%
5	100%	100%

SOIL AMENDMENT GUIDANCE

AMENDMENT	AMOUNT
BROADCAST HYDROSEED	100% FOLLOW
PELLETED FOLLOW	100% FOLLOW
HYDROSEED MANUFACTURER SPECIFIC MANUFACTURER	100% FOLLOW

CONSTRUCTION GUIDANCE

1. INITIAL SEED MIX SHALL BE APPLIED AT A RATE OF 15 LBS. OF SEED PER 1000 SQ. FT. OF AREA TO BE SEEDED.
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 BED COMPONENT EXCEEDING 0.40Z BY WEIGHT.
4. FERTILIZER AND LIME SHALL FOLLOW RATES SHOWN ON PLAN OR AS DIRECTED BY THE ENGINEER.
5. ANY MULCH TO BE PLACED ON EARTH SLOPES AT THE RATE OF 2 TONS/ACRE.
6. HYDROSEEDING SHALL BE PERFORMED IN ACCORDANCE WITH THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL - 2008 - FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.
7. HYDROSEEDING - ALTHOUGH GUIDANCE IS GIVEN ABOVE THE SITE CONDITIONS AND TYPES OF SOIL AMENDMENTS TO BE APPLIED SHALL BE DICTATED BY THE ENGINEER.
8. TURF ESTABLISHMENT - PLACING SEED, FERTILIZER, LIME AND MULCH PRIOR TO THE ESTABLISHMENT OF GRASS.
9. TURF ESTABLISHMENT - PLACING SEED, FERTILIZER, LIME AND MULCH PRIOR TO THE ESTABLISHMENT OF GRASS.

ADAPTED FROM VERMONT TECHNICAL LANDSCAPE MANUAL FOR TURF ESTABLISHMENT
ROADWAYS AND RECREATION FACILITIES

REVISIONS:
NOVEMBER 13, 2009 WJP
MAY 14, 2009 WJP

SYMBOL NOT TO SCALE

ROLLED EROSION CONTROL PRODUCT (RECP) SIDE SLOPE

ADAPTED FROM DETAILS PROVIDED BY NEW YORK STATE DEC
VENMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

NOTES:
REFER TO THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL - 2008 - FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.
THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT

REVISIONS:
NOVEMBER 13, 2009 WJP
MAY 14, 2009 WJP

SYMBOL NOT TO SCALE

FILTER CURTAIN

ADAPTED FROM DETAILS PROVIDED BY NEW YORK STATE DEC
VENMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

NOTES:
REFER TO THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL - 2008 - FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.
THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT

REVISIONS:
NOVEMBER 13, 2009 WJP
MAY 14, 2009 WJP

SYMBOL NOT TO SCALE

CONSTRUCTION SPECIFICATIONS

1. WHEN WIRE IS USED, THE WIRE SHALL BE EITHER FILTER X, WIRAFLOXX, STABILINKA T140N OR APPROVED EQUIVALENT.
2. FILTER CLOTH SHALL BE EITHER FILTER X, WIRAFLOXX, STABILINKA T140N OR APPROVED EQUIVALENT.
3. FILTER CLOTH SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING STONE.
4. WHEN WIRE FENCE IS TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE WITH THE SPACING OF 24" x 4" x 1/8" AND 4/16" SECTION.
5. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE FASTENED TOGETHER WITH WIRE.
6. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REQUIRED WHEN NECESSARY.

SILT FENCE

ADAPTED FROM DETAILS PROVIDED BY NEW YORK STATE DEC
VENMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

NOTES:
REFER TO THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL - 2008 - FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.
THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT

REVISIONS:
NOVEMBER 13, 2009 WJP
MAY 14, 2009 WJP

Attachment 3

Inspection Checklist



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

Project Name: Barnard ER BRF 0241 (39)	Date:	Time Since Last Storm:
---	--------------	-------------------------------

Inspector: Raymond Estey	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 <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					

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.

Attachment 4

Waste & Staging Area Application and Clearances

Roger's Waste Site



State of Vermont
Department of Environmental Conservation
Waste Management & Prevention Division
1 National Life – Davis 1
Montpelier, VT 05620-3704
(802) 522-5974 work/cell
(802) 828-1011 fax
debra.bordo@state.vt.us

December 23, 2013

Paul J. Holloway
Miller Construction, Inc.
3103 US Route 5 South
P.O. Box 86
Windsor, VT 05089

Paul Rogers
301 Rogers Lane
Bethel, VT 05032

**RE: INSIGNIFICANT WASTE MANAGEMENT EVENT APPROVAL
IWMEA# IWS174 – Paul Rogers, Bethel, VT
Concrete and Earthen Disposal**

Dear Mr. Holloway,

The Vermont Agency of Natural Resources Solid Waste Management Program has reviewed the request for approval to dispose approximately 100 cubic yards of concrete and 1,500 cubic yards of earthen materials at the property at 301 Rogers Lane in Bethel, Vermont. The December 2013 request falls under the jurisdiction of section 6-301(c) of the Vermont Solid Waste Management Rules, effective March 15, 2012. The waste generated will be from an Agency of Transportation project, Barnard ER BRF 0241 (39) located on Route 12, to commence June 1, 2014. The application plan provides for the burial/placement of the waste materials described above on the lands owned by Paul Rogers. This approval is for the aforementioned so-called clean materials and, under no circumstances, will other materials or hazardous materials be disposed of at this site.

Based upon a review of your application, the Secretary of the Agency of Natural Resources has determined that the proposed disposal activity will not result in a threat to the public health and safety, the environment, or create a nuisance. Therefore, this activity qualifies as an Insignificant Waste Management Event, as provided for under Section 6-301(c) of the Vermont Solid Waste Management Rules. This determination is conditional on compliance with the



representations contained in the application received December 16, 2013, and the conditions provided under this approval letter.

You are hereby granted approval to dispose of the above referenced waste consistent with the Insignificant Waste Disposal Event Guidance Document and your application. This approval is specific to the wastes generated during this project as described above and does not allow for the disposal of wastes of other types or from other sources. All concrete waste must either be free of rebar and wire mesh material or have rebar and wire mesh cut flush with the edges of any concrete slabs or pieces prior to burial. Upon project completion, the disturbed fill area shall be graded to a maximum 3:1 slope and shall be seeded and mulched. Erosion control measures shall be maintained, where appropriate, to prevent sediment discharge to the waters of the state or to wetlands during operation until the site is fully stabilized. Under no circumstances shall disposal or filling occur within a wetland or its associated buffer.

This approval expires upon project completion estimated to be August 31, 2014, or December 31, 2014, whichever is sooner. This approval does not provide authorization of any activity in lieu of Act 250 or other state or local laws that may also govern. Please contact me at 522-0195 should you have any questions.

Sincerely,



Dennis Fekert
Chief, Certification and Compliance
Solid Waste Management Program

cc: Town of Bethel

dmb/df

Appeals

Any person aggrieved by this certification or permit may appeal to the Superior Court – Environmental Division within 30 days of the issuance of this permit in accordance with 10 V.S.A. Chapter 220 and the Vermont Rules Environmental Court Proceedings. If this certification or permit relates to a renewable energy plant for which a certificate of public good is required under 30 V.S.A. §248, any appeal must be filed within 30 days of the issuance with the Vermont Public Service Board in accordance with Board rules.





Agency of Natural Resources
Waste Management & Pollution Prevention Division
103 South Main Street, Waterbury, VT 05671-0404
Contact Info: dennis.fekert@state.vt.us

Application Forms and Guidance Documents: <http://www.anr.state.vt.us/dec/wastediv/solid/permit.htm>

IWMEA APPLICATION FORM FOR DISPOSAL EVENTS
July 2012

Applicant, Landowner, Site and Contact Person Information

1. Applicant
Name (print): Miller Construction, Inc.
Address: 3103 US Rte. 5 South, PO Box 86
Windsor, VT 05089
Telephone number: (802) 674-5525
Email Address: p.holloway@millercranes.com

2. Landowner
Name (print): Paul Rogers
Address: 301 Rogers Lane
Bethel, VT 05032
Telephone Number: (802) 282-5353
Email Address: N/A

3. Disposal Site Location
Address: 301 Rogers Lane
Bethel, VT 05032

4. Contractor
Name (print): Miller Construction, Inc.
Address: 3103 US Rte. 5 South, PO Box 86
Windsor, VT 05089
Telephone Number: (802) 674-5525
Email Address: p.holloway@millercranes.com



MILLER CONSTRUCTION, INC.

PO BOX 86
WINDSOR, VT 05089

(802) 674-5525
Fax (802) 674-5245

Attachment A: Rogers Lane Waste Site Management

The Proposed Waste Site located at 301 Rogers Lane in Bethel, VT for the Barnard ER BRF 0241 (39) Project is located within Privately Owned Property.

The following controls ensure the safety of the site and public health:

Dust: Should excessive dust result during the disposal of Earthen Materials, a Water Truck shall be used to ensure that the Proposed Waste Site and Access Roadway are kept damp.

Noise: It is not anticipated that there will be any excessive noise produced at the Proposed Waste Site. However, the Proposed Waste Site has been located at a Central Location within the 27.9 Acre Lot, so any noise produced will not affect the neighboring public.

Litter, Spills, & Emissions: Trucks shall be properly maintained and vehicle/personnel time on site shall be limited in order to minimize emissions and spill potential. In the event that a spill should occur, proper Authorities shall be notified. Personnel shall be instructed to leave only the Concrete and Earthen Material that is being hauled at the Proposed Waste Site.

Discharges: The Proposed Waste Site is located within a wooded area and waste material consists of Concrete and Earthen. Potential for any discharge from the site as a result of disposal activities is at a minimum.

Access: The Proposed Waste Site is located 550 FT from the Public Road (North Road). Access to the site shall occur on a Privately Owned & Maintained Drive. It is not anticipated that any unauthorized access shall occur.



MILLER CONSTRUCTION, INC.

PO BOX 86
WINDSOR, VT 05089

(802) 674-5525
Fax (802) 674-5245

Attachment B: Rogers Lane Waste Site Prohibited Areas

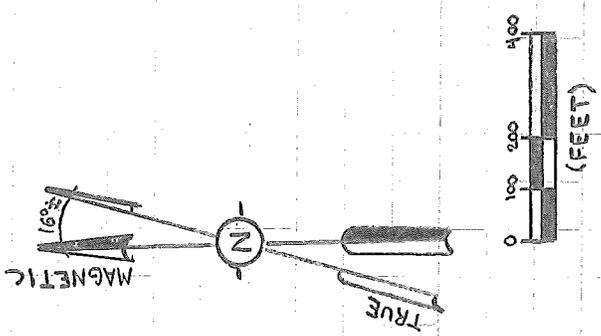
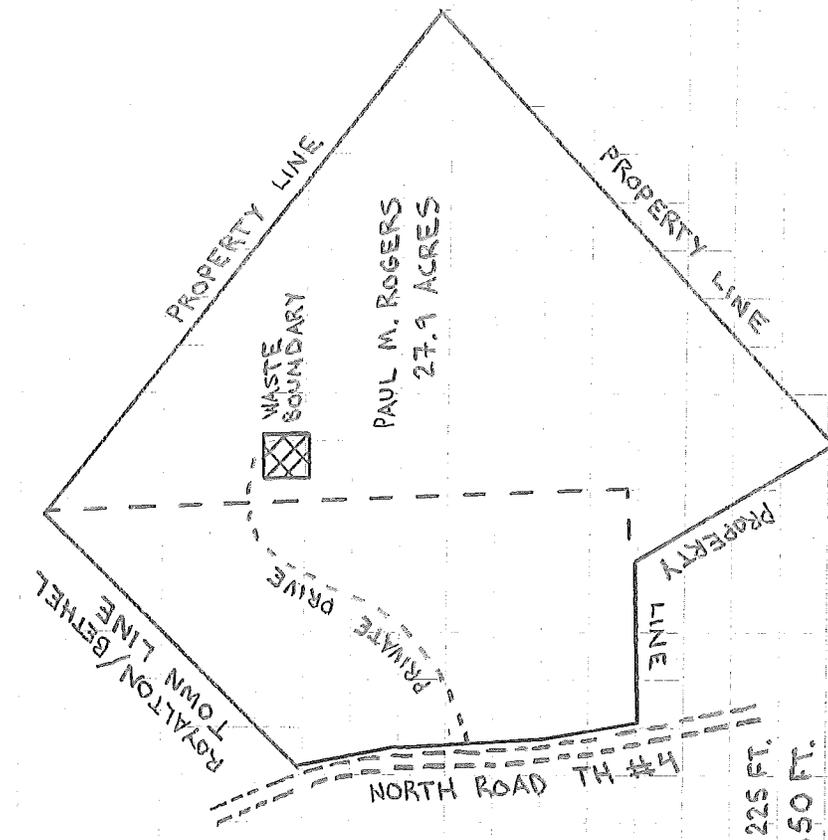
Per Scott Stewart, Division Hydrogeologist for Windsor County, Drinking Water and Groundwater Protection Division, no Class I or Class II Ground Water Areas are Located in Bethel and/or Royalton.

Additionally, per Vermont ANR – Natural Resources Atlas, the Proposed Waste Site is not within the source isolation zone of a public water supply, within 200 FT of a private water supply, within a Class A watershed, within Class I or Class II wetlands or their associated buffer zones, within a Class III wetland, or within any flood plain.

Miller Construction, Inc.
 3103 US Route 5 South
 P.O. Box 86
 Windsor, Vermont 05089
 802-674-5525 Fax: 802-674-5245

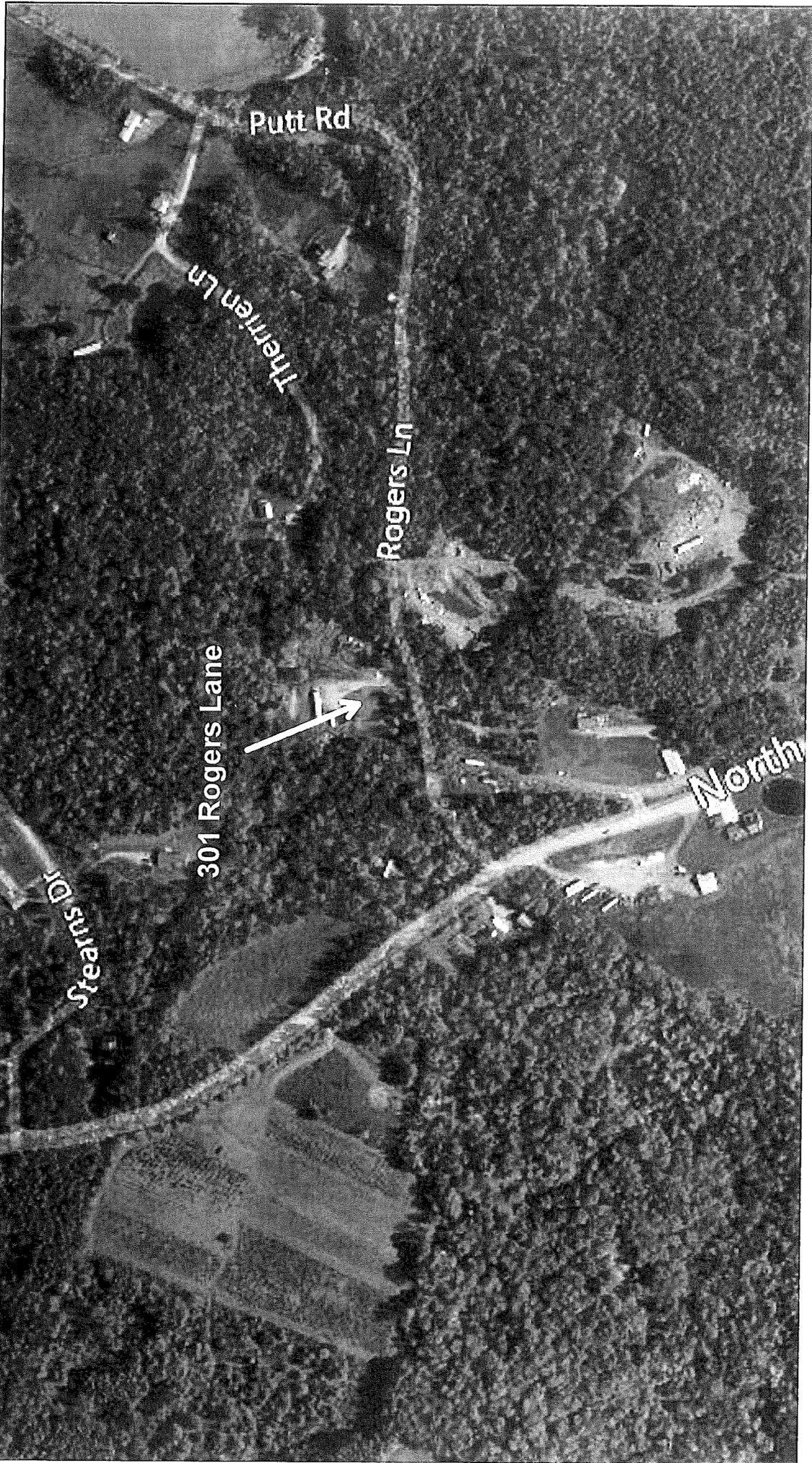
JOB BARNARD ER BRF 0241 (39)
 SHEET NO. 1 OF 1
 CALCULATED BY PJM DATE 12/12/13
 CHECKED BY _____ DATE _____
 SCALE AS SHOWN

ATTACHMENT C: ROGERS LANE WASTE SITE PLAN



NOTES:
 DISTANCE TO NEAREST ADJOINING PROPERTY: 225 FT.
 DISTANCE TO PUBLIC ROAD (NORTH ROAD): 550 FT.
 NO CLASS B WATER WITHIN 100 FT OF WASTE BOUNDARY

Attachment D: Rogers Lane Waste Site Map





MILLER CONSTRUCTION, INC.

PO BOX 86
WINDSOR, VT 05089

(802) 674-5525
Fax (802) 674-5245

Attachment E: Rogers Lane Waste Site Written Approval

See Landowner Signature on Page 2 of Application.



MILLER CONSTRUCTION, INC.

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WINDSOR, VT 05089

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Fax (802) 674-5245

Attachment F

Rogers Lane Waste Site VTrans Off-Site Activity Review

OFF-SITE ACTIVITY REVIEW



VTRANS ENVIRONMENTAL RESOURCE REVIEW

Project/District Name: Barnard ER BRF 0241(39) Proposed Area Name: Rogers Waste Site
Waste Borrow Staging Other: X: 489,902.157 Y: 145,760.952 (NAD83, meters)

Natural Resource Review
Accepted Rejected Date 3/Dec/2013 Signature John Lepore
Comments Contractor/landowner must obtain an Incidental Solid Waste Management Approval from the ANR prior to use.

Cultural Resource Review
Accepted Rejected Date 12/2/13 Signature Brennan Gauthier
Comments previously disturbed

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: Incidental Solid Waste Management Approval required prior to site use.

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.

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.

received
12.2.13

SUBMITTAL INFORMATION

Project Name/District: Barnard ER BRF 0241 (39) Contractor/District Tech: Miller Construction, Inc.
Contact: Paul Holloway Phone: 802-674-5525 Fax: 802-674-5245 E-mail: p.holloway@millercranes.com
Resident Engineer: N/A TBD Phone: N/A Fax: N/A

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.) Concrete Rubble, Earthen Quantity (yds³) 1,600 CY
Total Area of Land Disturbance (sq ft) 1,600 SF
Additional Info: N/A

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

Name: Paul Rogers Address: 301 Rogers Lane, Bethel, VT Phone: 802-282-5353
Print Name
 Private Residential/Commercial Town/State Owned Facility Other
Additional Info: N/A
Are there other users of this site? Yes No
Known past uses: Previously Approved Waste Site for Bethel BRF 022-1 (14) Project, Solid Waste Application #IWS155
 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, # N/A Copy Enclosed? Yes No
List of Other Existing Permits: N/A

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

I, Paul M Rogers, 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 Miller Construction, Inc. as shown on the attached sketch. If acting as the agent of
Name of Contractor

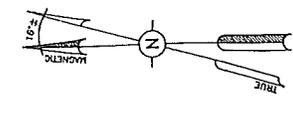
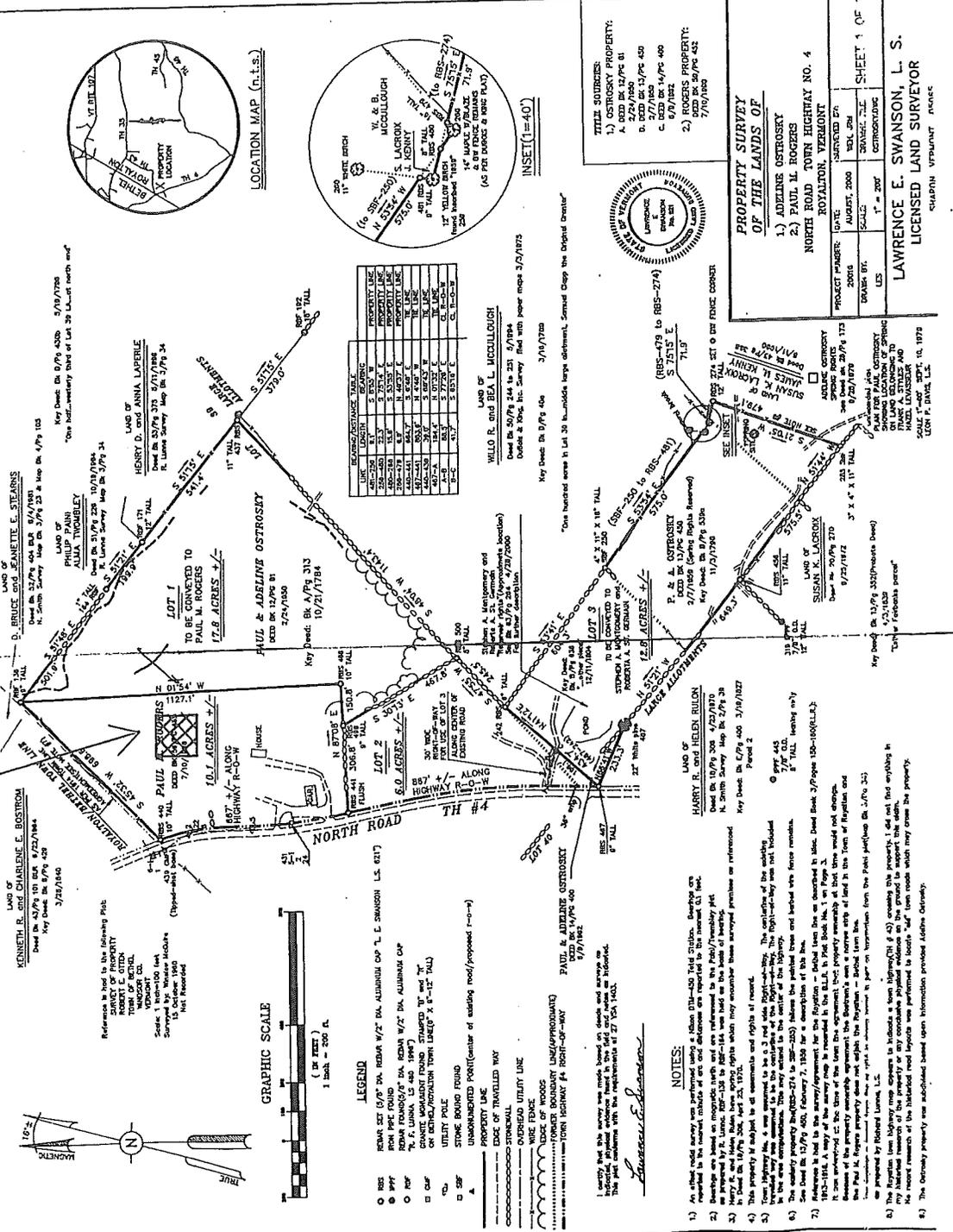
the Landowner, I warrant (1) that the Landowner has the full right, power, and authority to authorize the proposed use, (2) that I am authorized to act as the Landowner's agent, and (3) that my authority to act as the Landowner's agent has not been revoked.

Date: 11/28/13

This clearance is for the Natural and Cultural Resources Only.

B-100 et al / B-105 4149

ROGERS WASTE SITE



LEGEND

- RES
- BFF
- REF
- CUF
- SF
- UNDEVELOPED
- OVERHEAD UTILITY LINE
- EDGE OF WOODS
- WIRE FENCE

REMARK SET (1/2") ON REBAR 1/2" DIA. ALUMINUM CAP 1" E. SWANSON (LS 017)

IRON PIPE FOUND IN AREA W/2" DIA. ALUMINUM CAP

CHANCE MOUND FOUND STAMPED "1" and "1"

ON BENCH/NOTATION TOWN LINES "X" 8"-12" TALL

UTILITY POLE

STONE BOUND FOUND

UNDERSIDE OF CONCRETE

EDGE OF TRAVELLED WAY

STRAINWALL

OVERHEAD UTILITY LINE

EDGE OF WOODS

WIRE FENCE

I certify that this survey was made based on data and samples on the ground and that the same are correct and reliable.

This plat conforms with the requirements of 27 VSA 1403.

Lawrence E. Swanson

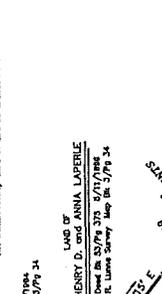
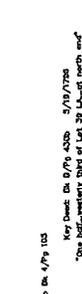
NOTES:

- 1) This plat meets the requirements of 27 VSA 1403. The plat is based on the survey of the Rogers Waste Site, dated 10/19/2006.
- 2) Bearings are based on magnetic north and are referred to the North/Triangulation point as prepared by E. Lanes, 1885-1895 to 1895-1914 was used as the basis of bearings.
- 3) This plat conforms with the requirements of 27 VSA 1403.
- 4) This property is subject to all easements and rights of record.
- 5) Town Highway No. 4 was assumed to be a 20' wide right-of-way. The centerline of the roadway is shown on this plat. The right-of-way line is not indicated in the area shown. This may extend to the center of the highway.
- 6) The utility property (RBS-274 to RBS-275 to RBS-280) within the parcel lines and located on the right side of the plat is shown on this plat. See Deed Book 13/79, 400, February 7, 1939 for a description of this line.
- 7) 1885-1894, had to be the survey/adjustment for the Rogers Waste Site. The plat is based on the survey of the Rogers Waste Site, dated 10/19/2006.
- 8) This plat conforms with the requirements of 27 VSA 1403.
- 9) The Rogers Waste Site map appears to indicate a town highway (RHS 42) crossing the property. I did not find anything in the historical records of the property or any contiguous parcels which would indicate the location of this highway. The location of this highway is shown on this plat. The location of this highway is shown on this plat.
- 10) This survey property was subdivided based upon information provided. Address: Rogers.

THIS PLAT MEETS THE REQUIREMENTS OF 27 VSA 1403

ORIGINAL MK DRAWING ON MYLAR

Lawrence E. Swanson



ADJUSTED DISTANCE TABLE

LINE	BEARING	DISTANCE	ADJUSTED DISTANCE
1	S 75°15' E	71.0	71.0
2	S 75°15' E	71.0	71.0
3	S 75°15' E	71.0	71.0
4	S 75°15' E	71.0	71.0
5	S 75°15' E	71.0	71.0
6	S 75°15' E	71.0	71.0
7	S 75°15' E	71.0	71.0
8	S 75°15' E	71.0	71.0
9	S 75°15' E	71.0	71.0
10	S 75°15' E	71.0	71.0
11	S 75°15' E	71.0	71.0
12	S 75°15' E	71.0	71.0
13	S 75°15' E	71.0	71.0
14	S 75°15' E	71.0	71.0
15	S 75°15' E	71.0	71.0
16	S 75°15' E	71.0	71.0
17	S 75°15' E	71.0	71.0
18	S 75°15' E	71.0	71.0
19	S 75°15' E	71.0	71.0
20	S 75°15' E	71.0	71.0
21	S 75°15' E	71.0	71.0
22	S 75°15' E	71.0	71.0
23	S 75°15' E	71.0	71.0
24	S 75°15' E	71.0	71.0
25	S 75°15' E	71.0	71.0
26	S 75°15' E	71.0	71.0
27	S 75°15' E	71.0	71.0
28	S 75°15' E	71.0	71.0
29	S 75°15' E	71.0	71.0
30	S 75°15' E	71.0	71.0
31	S 75°15' E	71.0	71.0
32	S 75°15' E	71.0	71.0
33	S 75°15' E	71.0	71.0
34	S 75°15' E	71.0	71.0
35	S 75°15' E	71.0	71.0
36	S 75°15' E	71.0	71.0
37	S 75°15' E	71.0	71.0
38	S 75°15' E	71.0	71.0
39	S 75°15' E	71.0	71.0
40	S 75°15' E	71.0	71.0
41	S 75°15' E	71.0	71.0
42	S 75°15' E	71.0	71.0
43	S 75°15' E	71.0	71.0
44	S 75°15' E	71.0	71.0
45	S 75°15' E	71.0	71.0
46	S 75°15' E	71.0	71.0
47	S 75°15' E	71.0	71.0
48	S 75°15' E	71.0	71.0
49	S 75°15' E	71.0	71.0
50	S 75°15' E	71.0	71.0
51	S 75°15' E	71.0	71.0
52	S 75°15' E	71.0	71.0
53	S 75°15' E	71.0	71.0
54	S 75°15' E	71.0	71.0
55	S 75°15' E	71.0	71.0
56	S 75°15' E	71.0	71.0
57	S 75°15' E	71.0	71.0
58	S 75°15' E	71.0	71.0
59	S 75°15' E	71.0	71.0
60	S 75°15' E	71.0	71.0
61	S 75°15' E	71.0	71.0
62	S 75°15' E	71.0	71.0
63	S 75°15' E	71.0	71.0
64	S 75°15' E	71.0	71.0
65	S 75°15' E	71.0	71.0
66	S 75°15' E	71.0	71.0
67	S 75°15' E	71.0	71.0
68	S 75°15' E	71.0	71.0
69	S 75°15' E	71.0	71.0
70	S 75°15' E	71.0	71.0
71	S 75°15' E	71.0	71.0
72	S 75°15' E	71.0	71.0
73	S 75°15' E	71.0	71.0
74	S 75°15' E	71.0	71.0
75	S 75°15' E	71.0	71.0
76	S 75°15' E	71.0	71.0
77	S 75°15' E	71.0	71.0
78	S 75°15' E	71.0	71.0
79	S 75°15' E	71.0	71.0
80	S 75°15' E	71.0	71.0
81	S 75°15' E	71.0	71.0
82	S 75°15' E	71.0	71.0
83	S 75°15' E	71.0	71.0
84	S 75°15' E	71.0	71.0
85	S 75°15' E	71.0	71.0
86	S 75°15' E	71.0	71.0
87	S 75°15' E	71.0	71.0
88	S 75°15' E	71.0	71.0
89	S 75°15' E	71.0	71.0
90	S 75°15' E	71.0	71.0
91	S 75°15' E	71.0	71.0
92	S 75°15' E	71.0	71.0
93	S 75°15' E	71.0	71.0
94	S 75°15' E	71.0	71.0
95	S 75°15' E	71.0	71.0
96	S 75°15' E	71.0	71.0
97	S 75°15' E	71.0	71.0
98	S 75°15' E	71.0	71.0
99	S 75°15' E	71.0	71.0
100	S 75°15' E	71.0	71.0

LAND OF WELLO R. and BEA L. MCCULLOUGH

Deed Book 10/79, 144 to 221, 5/19/84

Deed & Map, Inc. Survey filed with paper maps 3/27/87

Key Deed: 10/79, 406 3/17/78

"One hundred acres in Lot 30, bounded large document. Several copy the original dealer"

LAND OF SUSAN M. LAGROUX

Deed Book 13/79, 400, 11/27/78

Deed & Map, Inc. Survey filed with paper maps 3/27/87

Key Deed: 10/79, 406 3/17/78

"One hundred acres in Lot 30, bounded large document. Several copy the original dealer"

LAND OF HENRY D. and ANNA LAPERLE

Deed Book 10/79, 238, 10/19/78

Deed & Map, Inc. Survey filed with paper maps 3/27/87

Key Deed: 10/79, 406 3/17/78

LAND OF PAUL M. ROGERS

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LAND OF ADLINE OSTROSKY

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LAND OF ADLINE OSTROSKY

Ward's Staging Area

OFF-SITE ACTIVITY REVIEW



VTRANS ENVIRONMENTAL RESOURCE REVIEW

Project/District Name: Barnard ER BRF 0241 (39) Proposed Area Name: Staging on Ralph Ward Parcel

Waste Borrow Staging X: 489420.03 Y: 139703.77 (NAD83, meters)

Natural Resource Review

Reviewer: J. Lepore

X Accepted Rejected Date 5-DEC-2013 Signature [Signature]

Comments See Special Conditions below relative to the use of a Special Flood Hazard Area

Cultural Resource Review

Reviewer: J. Russell

X Accepted Rejected Date 5-DEC-2013 Signature [Signature]

Comments not arch sensitive

~~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)

X 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.

x Other: No fill will be allowed in this staging area as it is a special flood hazard area. This clearance is for the temporary installation of a mobile construction trailer and equipment parking ONLY. By using this site, the Contractor recognizes that there may be special flood insurance needs and/or requirements to be followed. Given that this is a special flood hazard area, the Contractor is not allowed to store fuels of any kind at this location.

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.

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.

received
11-22-13

SUBMITTAL INFORMATION

Project Name/District: Barnard ER BRF 0241 (39) Contractor/District Tech: Miller Construction, Inc.
 Contact: Paul Holloway Phone: 802-674-5525 Fax: 802-674-5245 E-mail: p.holloway@millercranes.com
 Resident Engineer: ~~N/A~~ Pete Hodgson (Temporary) Phone: N/A Fax: N/A

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.) _____ N/A _____ Quantity (yds³) _____ N/A _____
 Total Area of Land Disturbance (sq ft) ~ 1500 SF
 Additional Info: Engineer's Field Office

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

Name: Ralph Ward Address: 8460 VT Route 12, Bethel, VT Phone: 802-234-9218
 Print Name
 Private Residential/Commercial Town/State Owned Facility Other
 Additional Info: N/A
 Are there other users of this site? Yes No
 Known past uses: N/A
 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, # N/A Copy Enclosed? Yes
 List of Other Existing Permits: N/A

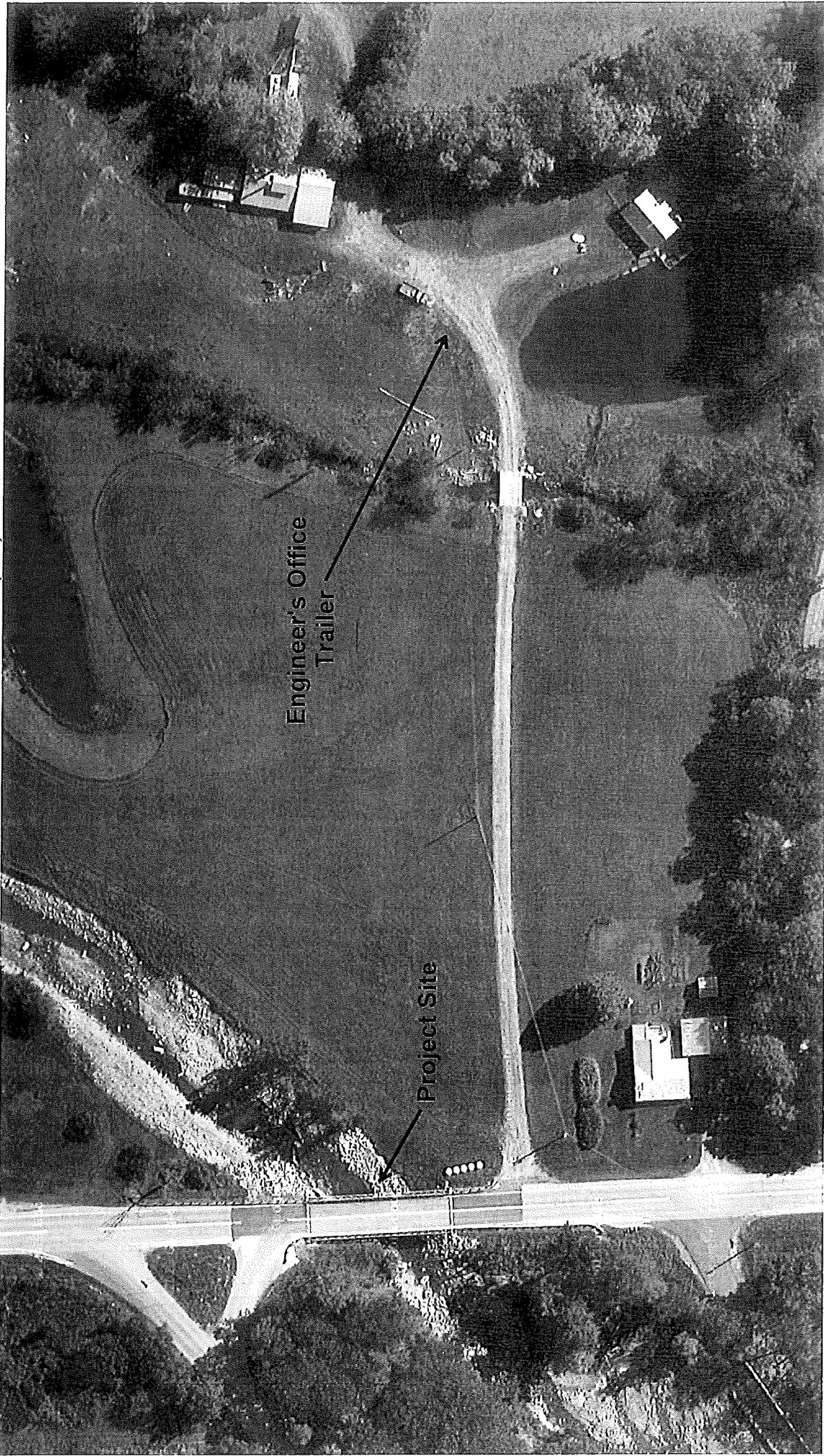
RE?
Rec'd 11/22/13
[Signature]

Landowner Agreement (Signature is required for all private-, town-, and state-owned properties)
 I, Ralph J Ward, 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 Miller Construction, Inc. as shown on the attached sketch, IF acting as the agent of
 Name of Contractor
 the Landowner, I warrant (1) that the Landowner has the full right, power, and authority to authorize the proposed use, (2) that I am
 authorized to act as the Landowner's agent, and (3) that my authority to act as the Landowner's agent has not been revoked.
 Date: 11/21/13

This clearance is for the Natural and Cultural Resources Only.

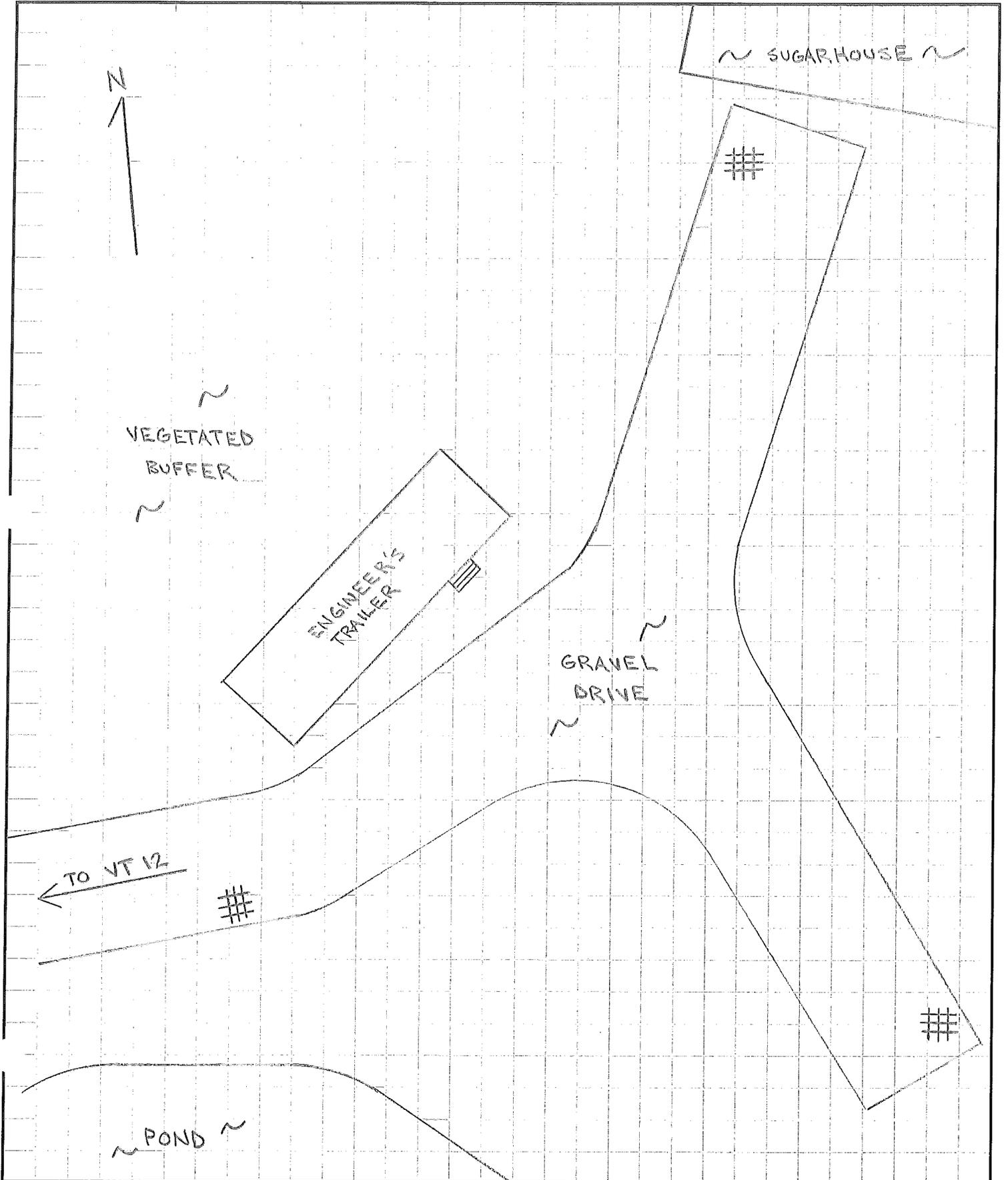
X = 489420.03 Y = 139703.77

Location Map for Engineer's Office Trailer - Barnard ER BRF 0241 (39)



Miller Construction, Inc.
3103 US Route 5 South
P.O. Box 86
Windsor, Vermont 05089
802-674-5525 Fax: 802-674-5245

JOB BARNARD ER BRF 0241 (39)
SHEET NO. 1 OF 1
CALCULATED BY PSH DATE 11/20/13
CHECKED BY _____ DATE _____
SCALE N.T.S.



Paul Holloway

From: Spooner, Karen [Karen.Spooner@state.vt.us]
Sent: Friday, December 06, 2013 11:32 AM
To: Paul Holloway; Hodgson, Pete; Wright, Andrea; Farley, William
Subject: Barnard ER BRF 0241 (39) Staging Site - Ward Property

Follow Up Flag: Follow up
Flag Status: Flagged

Please note this additional condition on the above mentioned site pertaining to the trailers mobility and utility needs.

Karen

From: Pealer, Sacha
Sent: Friday, December 06, 2013 11:26 AM
To: Lepore, John
Cc: Gingras, Glenn; Spooner, Karen
Subject: RE: Bethel Staging Site-Special Flood Area Zone A

To meet National Flood Insurance Program (NFIP) requirements and prevent flood damage, the construction office trailer should be on wheels with quick-disconnect utilities (power, etc.) and less than 180 consecutive days OR, be adequately anchored to prevent flotation, collapse, or lateral movement during flooding.

In case you aren't familiar with the NFIP, the NFIP is administered by FEMA, and the state has an obligation to follow the regulatory requirements set forth by the NFIP for projects in the Special Flood Hazard Area.

Please let me know if you have other questions.

Thanks,

Sacha Pealer, *Central Vermont Floodplain Manager*
1 National Life Drive, Main 2
Montpelier, VT 05620-3522
802-490-6162 / sacha.pealer@state.vt.us
www.watershedmanagement.vt.gov/rivers.htm



VERMONT DEPARTMENT OF
ENVIRONMENTAL CONSERVATION
**WATERSHED
MANAGEMENT DIVISION**
RIVERS PROGRAM

Attachment 5

Army Corps of Engineers Work Start Notification



US Army Corps
of Engineers
New England District

COPY
MAILED 11/18/13

WORK START NOTIFICATION FORM

* MAIL TO: U.S. Army Corps of Engineers, New England District *
* Vermont Project Office *
* 8 Carmichael Street, Suite 205 *
* Essex Junction, Vermont 05452 *

Corps of Engineers Permit No. NAE-2013-0874 was issued to Vermont Agency of Transportation. The permit authorized the permittee to place fill in a total of about 1,490 sq. ft. (0.03 acre) of Locust Creek in conjunction with replacement, on existing alignment, of Bridge No. 25 on VT Route 12 in Barnard, Vermont.

The people (e.g., contractor) listed below will do the work, and they understand the permit's conditions and limitations.

PLEASE PRINT OR TYPE

Name of Person/Firm: Miller Construction, Inc.
Business Address: 3103 US Route 5 South
PO Box 86
Windsor, VT 05089
Telephone Numbers: () 802-674-5525 () 802-674-5245
Proposed Work Dates: Start July 1, 2014 Finish August 29, 2014
Permittee's Signature: *Paul J. Holloway* Date: 11/18/2013
Printed Name: Paul J. Holloway Title: Project Manager

FOR USE BY THE CORPS OF ENGINEERS

PM: Angela C. Repella

Submittals Required: No

Inspection Recommendation: _____
