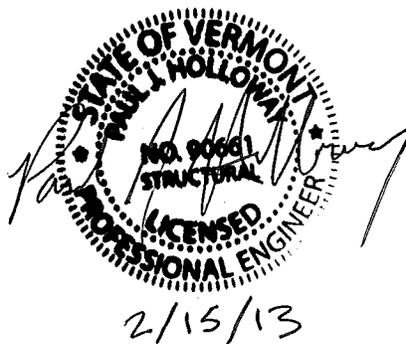


EROSION PREVENTION AND SEDIMENT CONTROL PLAN
for
State of Vermont Project: Jamaica ER-BRF 015-1 (23)

Town of: Jamaica, Vermont
County of: Windham



Prepared By:

Miller Construction, Inc.
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February 15, 2013

***EROSION PREVENTION AND SEDIMENT CONTROL PLAN
FOR
State of Vermont Project: Jamaica ER-BRF 015-1 (23)***

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Erosion Prevention and Sediment Control Plan
Jamaica ER-BRF 015-1 (23)

General Project Description and Timetable

The Jamaica ER-BRF 015-1 (23) project involves the replacement of Bridge 30 which is located in the Town of Jamaica on Vermont Route 30, approximately 4.8 miles South of the Northern junction of Vermont Route 100 and 30. There is currently a temporary bridge in place, off alignment, that was installed after Tropical Storm Irene. The new structure will be approximately 132 feet in length with 243 feet of roadway work. This project also involves the replacement of an existing box culvert. The new precast concrete box culvert will be approximately 85 feet in length.

Erosion Prevention and Sediment Control Plan

There are eleven main phases to the Jamaica ER-BRF 015-1 (23) project.

- Phase I.** Mobilization, Office Trailers, Erosion Control and Traffic Control
- Phase II.** Excavation and Piles
- Phase III.** Substructure Concrete
- Phase IV.** Installation of Stone Fill
- Phase V.** Installation of Superstructure
- Phase VI.** Installation of Drainage Structure
- Phase VII.** Approach Work and Paving
- Phase VIII.** Removal of Temporary Bridge and Approaches
- Phase IX.** Installation of New Box Culvert
- Phase X.** Partial Removal and Filling of Existing Box Culvert
- Phase XI.** Final Soil Stabilization and Clean-up

Phase I. Install silt fence and project demarcation fence 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. Because this project falls under CGP 3-9020, barrier fence shall be used instead of project demarcation fence within 100 feet of a water resource. Woven wire reinforced silt fence shall be used instead of silt fence within 100 feet upslope of receiving waters.

Anti-tracking pads shall be installed at entrances to the site per Sheet E4A and the Standard Specification prior to any vehicular traffic leaving the site after earth moving activities have begun.

A filter curtain shall be installed prior to any channel work.

Phase II. 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. Side slope erosion control matting shall be installed per Sheet E4A and the Standard Specification once the excavation is complete.

Erosion Prevention and Sediment Control Plan
Jamaica ER-BRF 015-1 (23)

Any spoils produced by the drilling of soil and/or rock will not be allowed to reach the Ball Mountain Brook. 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 III. No additional erosion control measures shall be required for substructure concrete.

Phase IV. No additional erosion control measures shall be required for installation of stone fill.

Phase V. No additional erosion control measures shall be required for superstructure installation. Care shall be taken to eliminate any material or debris from falling into the Ball Mountain Brook during girder erection and deck placement.

Phase VI. Inlet protection devices shall be installed per Sheet E4A and the Standard Specification at the drainage structure on the West end of the bridge.

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

Phase VIII. Care shall be taken to eliminate any material or debris from falling into the Ball Mountain Brook during the removal of the temporary bridge.

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. Side slope erosion control matting shall be installed per Sheet E4A and the Standard Specification once the removal is complete.

Phase IX. During excavation for the box culvert, 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 X. Care shall be taken to eliminate any flowable fill from reaching the Ball Mountain Brook from the existing box culvert. After removal of the headwalls and wingwalls, a proper seal shall be maintained on the culvert outlet until the fill has cured.

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

Erosion Prevention and Sediment Control Plan
Jamaica ER-BRF 015-1 (23)

Additional Erosion Prevention and Sediment Control Notes:

It is anticipated that the majority of 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:

It is anticipated that the Engineer's Trailer will be located in the Fire Department's parking lot directly adjacent to the Project Site. When this location is finalized, the EPSC plan shall be amended to include the location and subsequent documentation.

The waste areas for this project include Cersosimo Industries Jamaica Quarry and Bazin Brother's Gravel Pit located in Westminster. Attached offsite exemption forms shall be filed with the Resident Engineer.

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 27 years, 18 of which have been in a supervisory position with Miller Construction, Inc. Raymond has completed numerous VT AOT and NH DOT projects through-out 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.

Erosion Prevention and Sediment Control Plan
Jamaica ER-BRF 015-1 (23)

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 1.63 acres. The project falls under the jurisdiction of General Permit 3-9020 and is considered a low risk project. 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.

Plan Preparer:

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

Plan Preparer Contact Information:

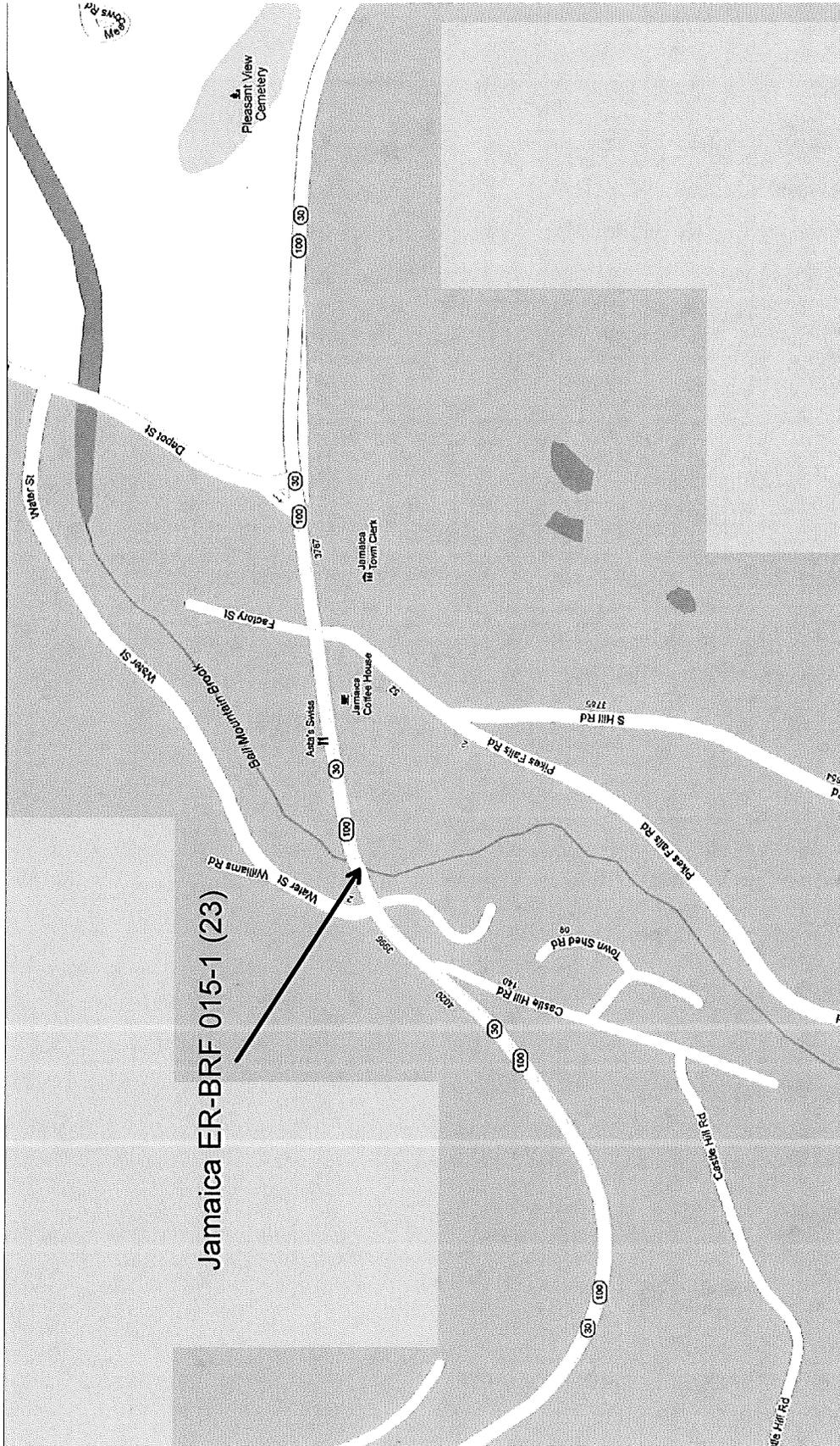
Paul Holloway: (802) 291-2771

Project Contact Information:

Raymond Estey: (802) 369-0614
Miller Construction, Inc. Office: (802) 674-5525
Paul Holloway: (802) 291-2771
Eric Murphy: (802) 369-6015

Attachment 1

Location Map and EPSC Drawings



Jamaica ER-BRF 015-1 (23)

Miller Construction, Inc.	
Windsor, Vermont	
Jamaica ER-BRF 015-1 (23)	
EPSC Plan	
Erosion Control	
Location Map	
Date	2/15/2013
Scale	NTS
Sheet	
E1	

EPSC PLAN NARRATIVE

1.1 PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE REPLACEMENT OF BRIDGE 30 WHICH IS LOCATED IN THE TOWN OF JAMAICA ON VERMONT ROUTE 30. APPROXIMATELY 4.8 MILES SOUTH OF THE NORTHERN JUNCTION OF VERMONT ROUTE 100 AND 30. THERE IS CURRENTLY A TEMPORARY BRIDGE IN PLACE, OFF ALIGNMENT, THAT WAS CONSTRUCTED UNDER THE NEW STATE BRIDGE PROGRAM. THE NEW STRUCTURE WILL BE APPROXIMATELY 132 FEET IN LENGTH WITH 142 FEET OF SPAN OVER THE EXISTING BROOK. THE NEW PRECAST CONCRETE BOX CULVERT WILL BE APPROXIMATELY 95 FEET IN LENGTH.

TOTAL AREA OF DISTURBANCE AS SHOWN ON THE ATTACHED EPSC PLAN IS APPROXIMATELY 1.63 ACRES. IT IS ANTICIPATED THAT THIS PROJECT WILL LAST ONE CONSTRUCTION SEASON.

1.2 SITE INVENTORY

1.2.1 TOPOGRAPHY: THE AREA IS RELATIVELY FLAT TO ROLLING AND LOCATED IN A SEMI-URBAN AREA. THERE ARE RESIDENCES LOCATED ALONG BOTH SIDES OF ROUTE 30 FOR THE ENTIRE LENGTH OF THE PROJECT. THESE RESIDENCES HAVE WELL ESTABLISHED VEGETATION. VERMONT ROUTE 30, WATER STREET, CASTLE HILL ROAD AND THE DRIVE TO THE FIRE DEPARTMENT ARE WITHIN THE PROJECT AREA. FOR FINAL CONTOURS AND SLOPES SEE CROSS SECTION SHEETS.

1.2.2 DRAINAGE, WATERWAYS, BODIES OF WATER, AND PROXIMITY TO NATURAL OR MAN-MADE WATER FEATURES: BALL MOUNTAIN BROOK IS NOT THE ONLY WATER SOURCE IN THE PROJECT AREA. THE BROOK IS CLASSIFIED AS SEMI-LOTIC, ALLUVAL AND CURRENTLY FLOOD-DAMAGED. THE STREAM BED CONSISTS OF SAND AND GRAVEL. THERE ARE ALSO AN UNNAMED BROOK FLOWING INTO BALL MOUNTAIN BROOK WITHIN THE PROJECT AREA.

1.2.3 VEGETATION: THE VEGETATION IN THE PROJECT AREA CONSISTS OF LAWNS WITH TREES, WELL ESTABLISHED TREES AND SHRUBS ARE LOCATED ALONG THE RIVER BANKS. THE IMPACT TO VEGETATION WILL BE LIMITED TO THAT WHICH IS DIRECTLY AFFECTED BY REPLACEMENT OF THE BRIDGE STRUCTURE AND BOX CULVERT. 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 WINDHAM, VERMONT. SOILS ON THE PROJECT SITE ARE:

50B COLTON LOAMY FINE SAND	2% TO 8% SLOPES	"K FACTOR" = 0.17
16B ADAMS LOAMY FINE SAND	2% TO 8% SLOPES	"K FACTOR" = 0.17
61F HOUGHTONVILLE FINE SANDY LOAM	25% TO 50% SLOPES	"K FACTOR" = 0.49
48B RAMSONVILLE-HOGBACK FINE SANDY LOAM	15% TO 25% SLOPES	"K FACTOR" = 0.49
56B RAMONACK FINE SANDY LOAM	3% TO 8% SLOPES	"K FACTOR" = 0.28

NOTE: K-VALUES GENERALLY INDICATE THE FOLLOWING:

0.0-0.23 = LOW EROSION POTENTIAL
0.24-0.36 = MODERATE EROSION POTENTIAL
0.37 AND HIGHER = HIGH EROSION POTENTIAL

1.2.5 SENSITIVE RESOURCE AREAS

CRITICAL HABITATS: NO
HISTORICAL OR ARCHEOLOGICAL AREAS: NO
PRIME AGRICULTURAL LAND: NO
WATER RESERVE AREAS AND ENDANGERED SPECIES: NO
WATER RESERVE AREAS: BALL MOUNTAIN BROOK
WETLANDS: NO

1.3 RISK EVALUATION

THIS PROJECT FALLS UNDER THE JURISDICTION OF GENERAL PERMIT 3-9020 FOR STORMWATER RUNOFF FROM CONSTRUCTION SITES FOR LOW RISK PROJECTS. ANY MODIFICATIONS TO THE PROJECT THAT INCREASE THE RISK TO ENVIRONMENTAL RESOURCES SHALL BE EVALUATED IN ACCORDANCE WITH THE PERMIT REQUIREMENTS. 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 FOR PROTECTING RESOURCES AND SHOULD BE USED UPON BASED ON THE SPECIFIC AREAS AND CONDITIONS OF THE PROJECT. REFER TO THE EPSC PLAN, 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 OF CONSTRUCTION EQUIPMENT CAN ACCESS SHALL BE DELINEATED. PROJECT DEMARCATION FENCING (PPF) SHALL BE USED TO PHYSICALLY MARK SITE BOUNDARIES. BECAUSE THIS PROJECT FALLS UNDER THE GCP 3-9020, BARRIER FENCE SHALL BE USED INSTEAD OF PROJECT DEMARCATION FENCE WITHIN 100 FEET OF A WATER RESOURCE (STREAM, BROOK, LAKE, POND, WETLAND, ETC).

1.4.2 LIMIT DISTURBANCE AREA

PREVENTING INITIAL SOIL EROSION BY MINIMIZING THE EXPOSED AREA IS MUCH MORE EFFECTIVE THAN TREATING ERODED SEDIMENT. EARTH DISTURBANCE CAN BE MINIMIZED THROUGH CONSTRUCTION PHASING BY ONLY OPENING UP EARTH AS NECESSARY. THIS CAN LIMIT THE AREA THAT WILL BE EXPOSED TO EROSION. STAGING AREAS FOR THE PROJECT CONSTRUCTION STABILIZATION PRACTICES IN ORDER TO MINIMIZE EROSION AND SEDIMENT TRANSPORT. FOR PROJECTS THAT ARE NOT UNDER A 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: ALL TRUCKS AND TRAILERS SHALL BE UNLOADED TO REDUCE THE POTENTIAL FOR RUNOFF ENTERING RECEIVING WATERS. INSTALLATION SHALL CONCLUDE WITH THE CONTRACTORS PROGRESS SCHEDULE.

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

1.4.4 INSTALL SEDIMENT BARRIERS

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

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

FILTER FABRIC DROP INLET PROTECTION SHALL BE INSTALLED AS PROPOSED ON THE EPSC PLANS.

BECAUSE THIS PROJECT FALLS UNDER THE GCP 3-9020, WOVEN WIRE REINFORCED SILT FENCE SHALL BE USED INSTEAD OF SILT FENCE WITHIN 100 FEET UPSLOPE OF RECEIVING WATERS.

1.4.5 DIVERT UP-LAND RUNOFF

DIVERSIONARY MEASURES SHALL BE USED TO INTERCEPT RUNOFF FROM ABOVE THE CONSTRUCTION AND DIVERT IT TO AN APPROPRIATE LOCATION. CLEAN WATER DOES NOT BECOME MUDDED WHILE TRAVELING OVER EXPOSED SOILS ON THE CONSTRUCTION SITE.

IT IS NOT ANTICIPATED THAT DIVERSIONARY MEASURES WILL BE NEEDED ON THIS PROJECT.

1.4.6 SLOW DOWN CHANNEL RUNOFF: CHECK STRUCTURES SHALL BE UTILIZED TO REDUCE THE VELOCITY, AND THUS THE EROSION POTENTIAL, OF CONCENTRATED FLOW IN CHANNELS.

IT IS NOT ANTICIPATED THAT CHECK STRUCTURES WILL BE NEEDED ON THIS PROJECT.

1.4.7 CONSTRUCT PERMANENT CONTROLS

PERMANENT STORM WATER TREATMENT DEVICES SHALL BE INSTALLED AS SHOWN ON THE PLANS AND IN ACCORDANCE WITH PERMIT CONDITIONS. STONE FILL SHALL BE INSTALLED AS SHOWN ON THE EPSC PLANS. GEOTEXTILE SHALL BE INSTALLED BELOW THE STONE FILL TYPE IV AS SHOWN ON THE CHANNEL CROSS SECTIONS.

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 WINTERS 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

THE URBAN SEED MIX SHALL BE USED ON ALL AREAS TO BE RE-VEGETATED AS SHOWN ON THE FINAL CONDITIONS PLANS.

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

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

1.4.11 DE-WATERING ACTIVITIES

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

TREATMENT OF DEWATERING EFFLUENT IS NOT ANTICIPATED.

1.4.12 INSPECT YOUR SITE

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

1.5 SEQUENCE AND STAGING

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

1.5.1 CONSTRUCTION SEQUENCE

1.5.2 OFF-SITE ACTIVITIES

IN ADDITION TO THE CONTRACTOR CHECKLIST ANY ACTIVITIES OUTSIDE THE CONSTRUCTION LIMITS SHALL FOLLOW SUBSECTION 105.23-105.29 OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION.

Miller Construction, Inc.

Windsor, Vermont

Jamaica ER-BRF 015-1 (23)

EPSC Plan

Sheet

Erosion Control

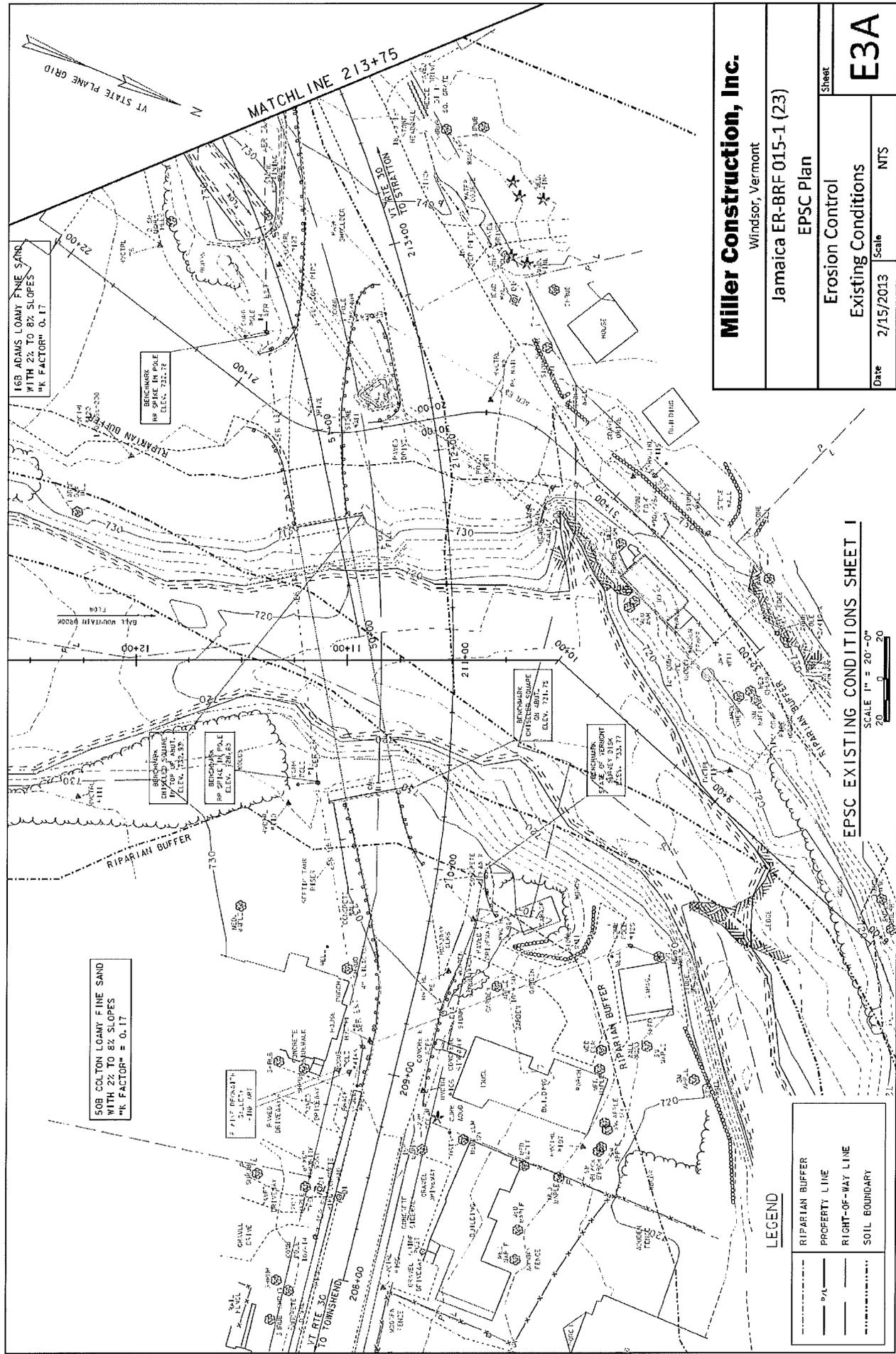
Narrative

Date 2/15/2013

Scale

NTS

E2



Miller Construction, Inc.
 Windsor, Vermont

Jamaica ER-BRF 015-1 (23)

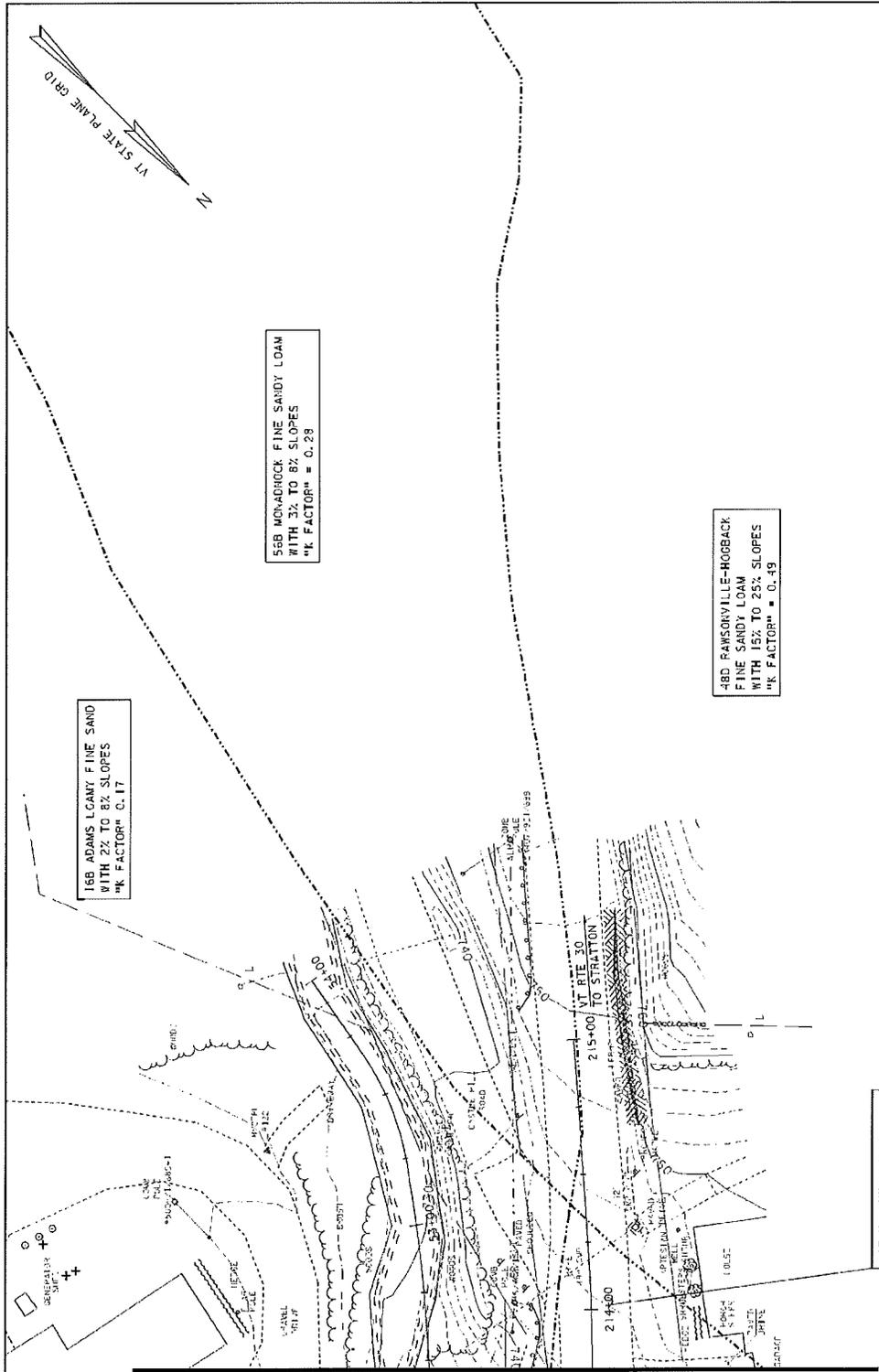
EPSC Plan

Erosion Control
 Existing Conditions

Date 7/15/2013 Scale NTS

Sheet
E3A

EPSC EXISTING CONDITIONS SHEET 1



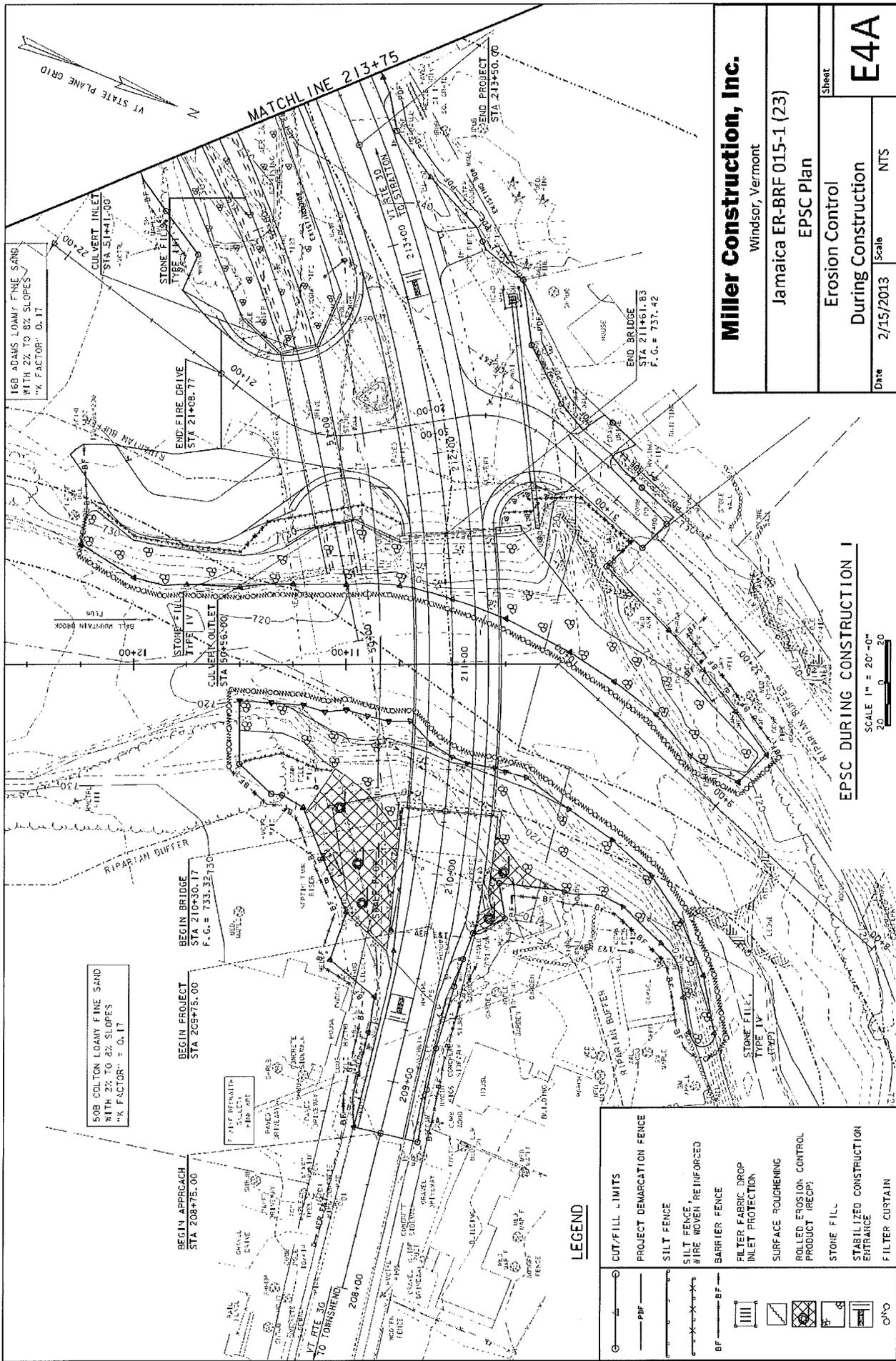
Miller Construction, Inc.	
Windsor, Vermont	
Jamaica ER-BRF-015-1 (23)	
EPSC Plan	
Erosion Control	
Existing Conditions	
Date	2/15/2013
Scale	NTS
Sheet	
E3B	

EPSC EXISTING CONDITIONS SHEET 2



LEGEND

--- (dashed line)	RIPARIAN BUFFER
— (solid line)	PROPERTY LINE
— (solid line)	RIGHT-OF-WAY LINE
— (dashed line)	SOIL BOUNDARY



168 ADAMS LOAMY FINE SANDS
WITH 2% TO 8% SLOPES
"K" FACTOR = 0.17

50B COLTON LOAMY FINE SAND
WITH 2% TO 8% SLOPES
"K" FACTOR = 0.17

BEGIN PROJECT
STA 208+75.00

BEGIN BRIDGE
STA 210+30.17
F.C. = 733.32+730

CULVERT OUTLET
STA 50+56.00

END FIRE DRIVE
STA 21+08.77

CULVERT INLET
STA 51+11.00

LEGEND

	CUT/FILL LIMITS
	PROJECT DEMARCATION FENCE
	SILT FENCE
	SILT FENCE, WIRE WOVEN REINFORCED
	BARRIER FENCE
	FILTER FABRIC DROP INLET PROTECTION
	SURFACE ROUGHENING
	ROLLED EROSION CONTROL PRODUCT (RECP)
	STONE FILL
	STABILIZED CONSTRUCTION ENTRANCE
	FILTER CURTAIN

Miller Construction, Inc.
Windsor, Vermont

Jamaica ER-BRF 015-1 (23)
EPSC Plan

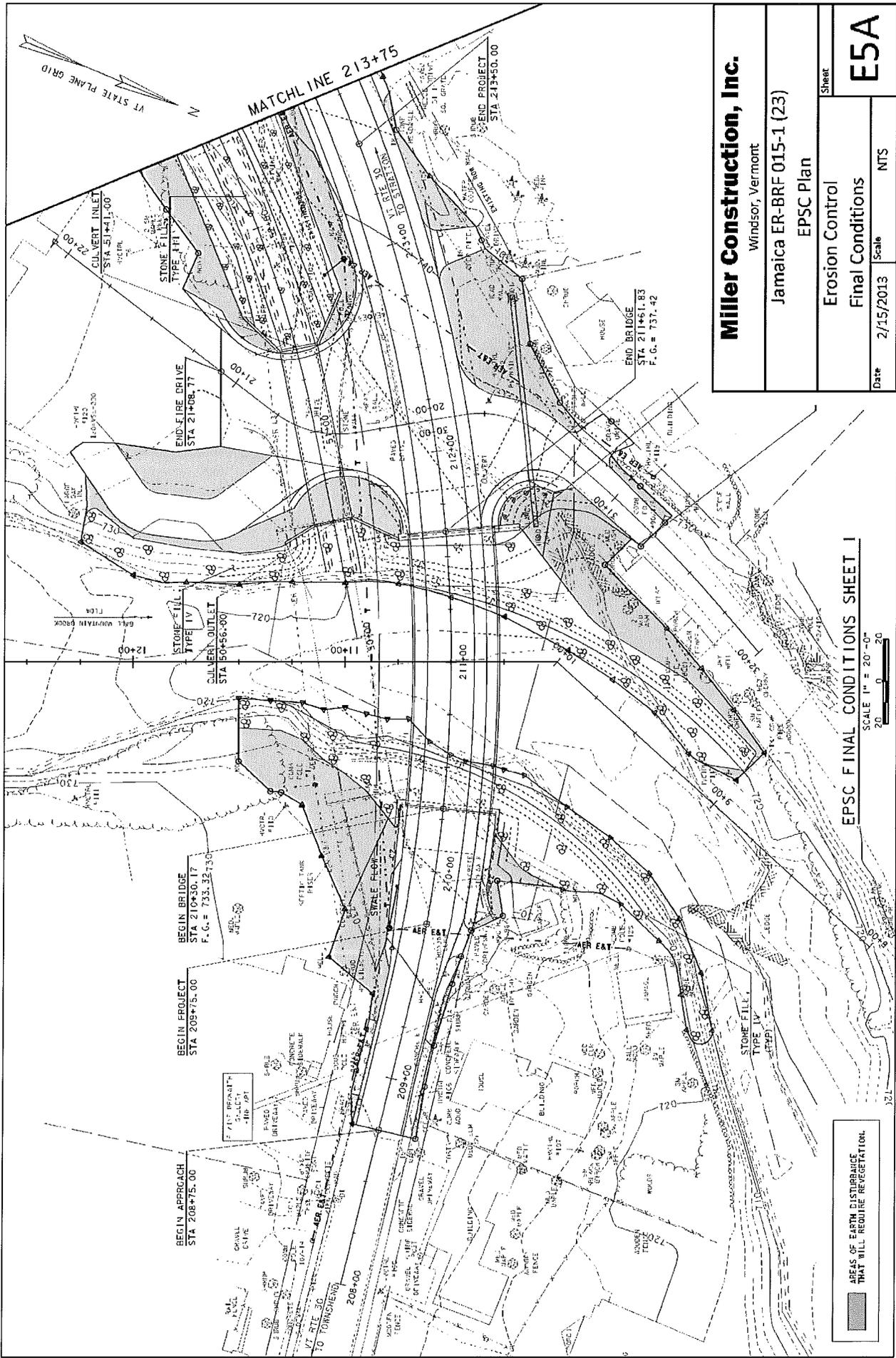
Erosion Control
During Construction

Date 2/15/2013 Scale NTS

Sheet
E4A

EPSC DURING CONSTRUCTION I

SCALE 1" = 20'-0"
0 20



Miller Construction, Inc.
Windsor, Vermont

Jamaica ER-BRF 015-1 (23)
EPSC Plan

Erosion Control
Final Conditions

Date 2/15/2013 Scale NTS

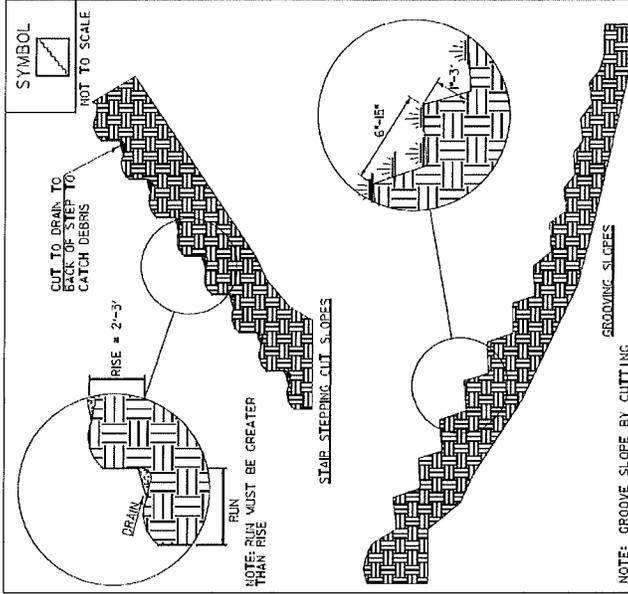
Sheet
E5A

EPSC FINAL CONDITIONS SHEET 1
SCALE 1" = 20'-0"
20 0 20

AREAS OF EARTH DISTURBANCE THAT WILL REQUIRE REVEGETATION

Attachment 2

EPSC Standard Details



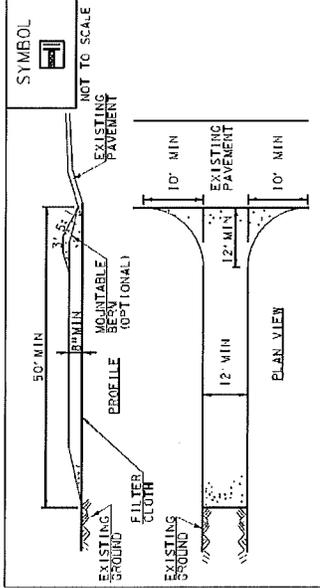
NOTE: GROOVE SLOPE BY CUTTING THROUGH CURB TO THE OUTSIDE. SURFACE CATCH RAINWATER AND RETAIN LIME, FERTILIZER AND SEED.

SURFACE ROUGHENING

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

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	WHF
APRIL 1, 2008	WHF
JANUARY 13, 2009	WHF



CONSTRUCTION SPECIFICATIONS

1. STONE SIZE- USE 1-4" STONE, RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH- NOT LESS THAN 50' (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30' MINIMUM LENGTH APPLIES).
3. THICKNESS- NOT LESS THAN 8".
4. WIDTH- 12' MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. 24' IF SINGLE ENTRANCE TO SITE.
5. GEOTEXTILE MUST BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING STONE.
6. SURFACE WATER- ALL SURFACE WATER FLOWING OR DIVERTED TOWARD ENTRANCE SHALL BE COLLECTED BY THE PIPING SYSTEM WITHIN THE ENTRANCE. PIPINGS INRACTICAL, A MOUNTABLE BEST WITH 5% SLOPES WILL BE PERMITTED.
7. MAINTENANCE- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT THE ENTRANCE FROM BEING SPILLED, DROPPED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED OR TRACKED ONTO 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.

STABILIZED CONSTRUCTION ENTRANCE

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

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 AND (PART ITEM 653.35) OR AS SPECIFIED IN THE CONTRACT.

REVISIONS	WHF
MARCH 24, 2008	WHF
JANUARY 13, 2009	WHF

VAOT RURAL AREA MIX

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

VAOT URBAN AREA MIX

% WEIGHT	BROADCAST HYDROSEED	NAME	GERM %	PURITY %
42.5%	34	68 CREEPING RED FESCUE	85%	98%
10.0%	8	16 PERENNIAL RYE GRASS	90%	95%
42.5%	34	68 KENTUCKY BLUE GRASS	85%	95%
5.0%	4	8 ANNUAL RYE GRASS	85%	95%
100%	80			

SOIL AMENDMENT GUIDANCE

FERTILIZER	LIME
BROADCAST HYDROSEED	BROADCAST HYDROSEED
10-20-10 FOLLOW	PELLETIZED FOLLOW
500 LBS/AC	MANUFACTURER'S TONS/AC
	MANUFACTURER

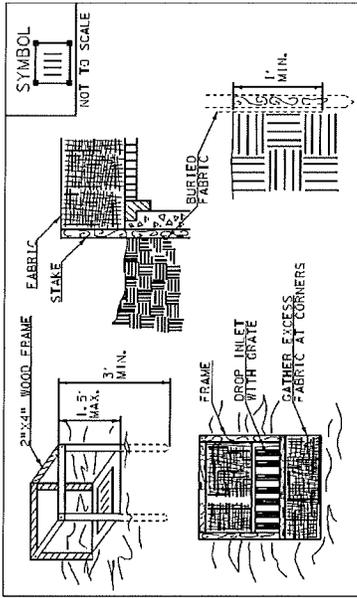
CONSTRUCTION GUIDANCE

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

ADAPTED FROM UTRAINS TECHNICAL LANDSCAPE MANUAL FOR ROADSIDE AND TRANSPORTATION FACILITIES

TURF ESTABLISHMENT

REVISIONS	WHF
JUNE 23, 2009	WHF
JANUARY 13, 2009	WHF
FEBRUARY 16, 2011	WHF



CONSTRUCTION SPECIFICATIONS

1. FILTER FABRIC SHALL HAVE AN APPLICANT OPENING SIZE OF 40-85. BURLAP MAY BE USED FOR SHORT TERM APPLICATIONS.
2. CUT FABRIC FROM A CONTINUOUS ROLL TO ELIMINATE JOINTS. IF JOINTS ARE NEEDED THEY WILL BE OVERLAPPED TO THE NEXT STAKE.
3. STAKE MATERIALS WILL BE STANDARD 2" x 4" WOOD OR EQUIVALENT METAL WITH A MINIMUM LENGTH OF 3'.
4. SPACE STAKES EVENLY AROUND INLET 3' APART AND DRIVE A MINIMUM 18" DEEP. STAKES GREATER THAN 3" MAY BE BRIDGED WITH THE USE OF WIRE MESH BEHIND THE FILTER FABRIC FOR SUPPORT.
5. FABRIC SHALL BE EMBEDDED 1" MINIMUM BELOW GROUND AND BACKFILLED. IT SHALL BE SECURELY PASTERED TO THE STAKES AND FRAME.
6. A 2" x 4" WOOD FRAME SHALL BE COMPLETED AROUND THE CREST OF THE FABRIC FOR OVER FLOW STABILITY.
7. MAXIMUM DRAINAGE AREA 1 ACRE

**FILTER FABRIC
DROP INLET
PROTECTION**

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

NOTES:
1. REFER TO THE VERMONT STANDARDS & SPECIFICATIONS FOR
EROSION PREVENTION & SEDIMENT CONTROL FOR DESIGN
THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL
GUIDANCE.

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH
SECTION 653 FOR INLET PROTECTION DEVICE TYPE 1(PA)
ITEM 653-401.

REVISIONS	DATE	BY
MARCH 7, 2008	WHF	
JANUARY 15, 2009	WHF	

Attachment 3

Inspection Checklist



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

Project Name:	Date:	Time Since Last Storm:
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Inspector:	On-Site Coordinator: (signature required)
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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

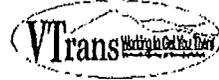
Discharges Noted

* 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.

Attachment 4

Waste Area Application and Clearances

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

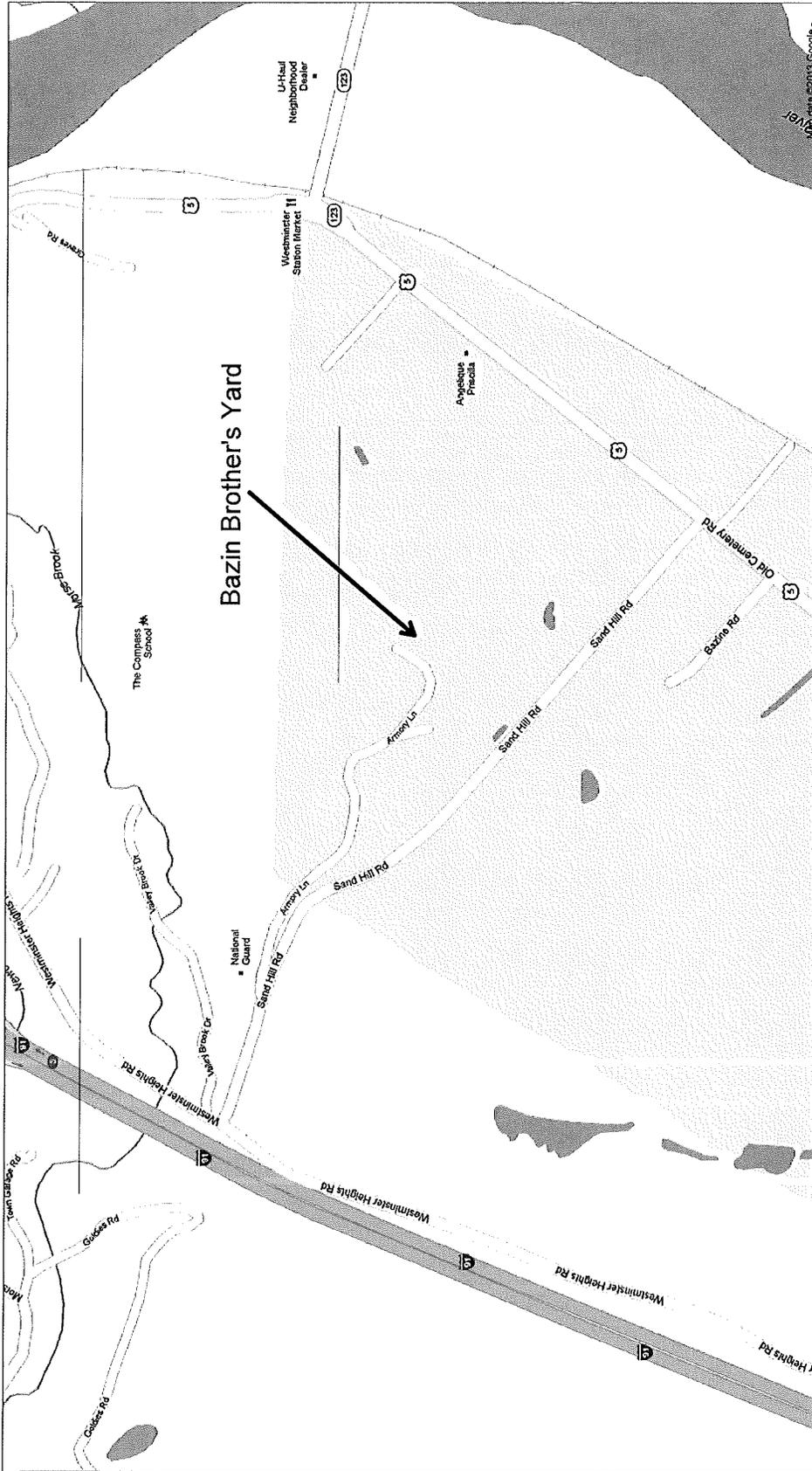
Project Name: Jamaica ER-BRF 015-1 (23)

Proposed Area Name: Bazin Brother's Yard

Landowner Signature: *Robert J. Bazin Pres*

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

Act 250 Grandfathered Signature *Robert J. Bazin Pres*
(Owner or authorized representative)-



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: Jamaica ER-BRF 015-1 (23)

Proposed Area Name: Cersosimo Jamaica Pit

Landowner Signature: *Michael Cersosimo*

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

Act 250 Grandfathered Signature *Michael Cersosimo*
(Owner or authorized representative)-

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

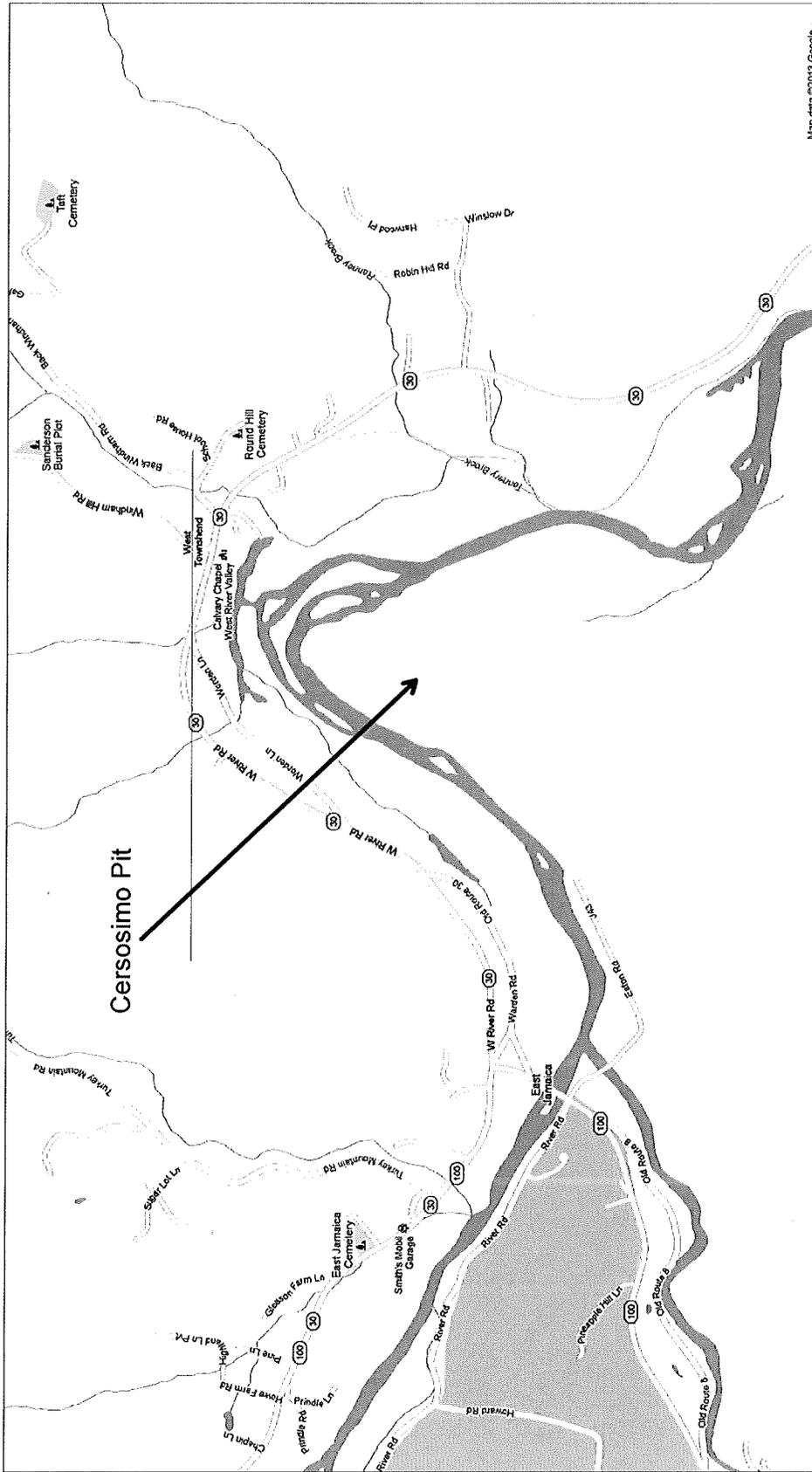
Project Name: Jamaica ER-BRF 015-1 (23)

Proposed Area Name: Cersosimo Jamaica Pit

Landowner Signature: Michael Cersosimo

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

Act 250 Grandfathered Signature Michael Cersosimo
(Owner or authorized representative)-



Attachment 5

Army Corps of Engineers Authorization



DEPARTMENT OF THE ARMY
NEW ENGLAND DISTRICT, CORPS OF ENGINEERS
696 VIRGINIA ROAD
CONCORD, MASSACHUSETTS 01742-2751

REPLY TO
ATTENTION OF

January 4, 2013

Regulatory Division
CENAE-R-PEC-62
Permit Number: NAE-2012-1969

Mr. Glenn Gingras
Vermont Agency of Transportation
One National Life Drive
Montpelier, Vermont 05633-5001

Dear Mr. Gingras:

We have reviewed your application to place fill in a total of 9,726 sq. ft. (0.22 acre) of Ball Mountain Brook and an unnamed tributary in conjunction with the replacement of a bridge and box culvert on VT Route 30 in Jamaica, Vermont. The work is shown on the attached plans, on nine sheets, entitled "JAMAICA ER-BRF 015-1(23)", dated "22-JUN-2012".

Based on the information you have provided, we have determined that the proposed activity, which includes a discharge of dredged or fill material into waters or wetlands, will have only minimal individual or cumulative environmental impacts on waters of the United States, including wetlands. Therefore, this work is authorized as a Category 2 activity under the attached Federal permit known as the Vermont General Permit (GP). This work must be performed in accordance with the terms and conditions of the GP.

You are responsible for complying with all of the GP's requirements. Please review the attached GP carefully, in particular the GP conditions beginning on Page 7, to familiarize yourself with its contents. You should ensure that whoever does the work fully understands the requirements and that a copy of the permit document AND THIS AUTHORIZATION LETTER ARE at the project site throughout the time the work is underway.

This authorization expires on December 6, 2017, unless the GP is modified, suspended, or revoked. You must commence or have under contract to commence the work authorized herein by December 6, 2017 and complete the work by December 6, 2018. If you do not, you must contact this office to determine the need for further authorization before beginning or continuing the activity.

If you change the plans or construction methods for work in our jurisdiction, please contact us immediately to discuss modification of this authorization. This office must approve any changes before you undertake them.

This authorization requires you to complete and return the enclosed Work Start Notification Form to this office before the anticipated starting date. You must also complete and

return the enclosed Compliance Certification Form within one month following the completion of the authorized work.

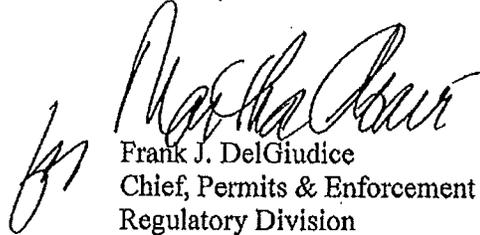
This authorization presumes that the work as described above and as shown on your plans noted above is in waters of the U.S. Should you desire to appeal our jurisdiction, please submit a request for an approved jurisdictional determination in writing to this office.

This permit does not obviate the need to obtain other Federal, state, or local authorizations required by law, as listed on Page 2 of the GP. Performing work not specifically authorized by this determination or failing to comply with any special condition(s) provided above or all the terms and conditions of the GP may subject you to the enforcement provisions of our regulations.

We continually strive to improve our customer service. In order for us to better serve you, we would appreciate your completing our Customer Service Survey located at <http://per2.nwp.usace.army.mil/survey.html>

Please contact Michael S. Adams of my staff at (802) 872-2893 if you have any questions.

Sincerely,



Frank J. DelGiudice
Chief, Permits & Enforcement Branch
Regulatory Division

Attachments

Copy Furnished:

Mr. Todd Menees, P.E.
River Management Engineer
Vermont Department of Environmental Conservation
450 Asa Bloomer State Office Building
88 Merchants Row
Rutland, Vermont 05701-5903
todd.menees@state.vt.us



WORK START NOTIFICATION FORM

**US Army Corps
of Engineers®**

New England District

 * 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-2012-1969 was issued to the Vermont Agency of Transportation. The permit authorized the permittee to place fill in a total of 9,726 sq. ft. (0.22 acre) of Ball Mountain Brook and an unnamed tributary in conjunction with the replacement of a bridge and box culvert on VT Route 30 in Jamaica, 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: _____

Business Address: _____

Telephone Numbers: () _____ () _____

Proposed Work Dates: Start _____ Finish _____

Permittee's Signature: _____ Date: _____

Printed Name: _____ Title: _____

FOR USE BY THE CORPS OF ENGINEERS

PM: Michael S. Adams

Submittals Required: No

Inspection Recommendation: _____



**US Army Corps
of Engineers®**

New England District **COMPLIANCE CERTIFICATION FORM**

(Minimum Notice: Permittee must sign and return notification within one month of the completion of work.)

USACE Project Number: NAE-2012-1969

Name of Permittee: Vermont Agency of Transportation

Permit Issuance Date: January 4, 2012

Please sign this certification and return it to the following address upon completion of the activity and any mitigation required by the permit. You must submit this after the mitigation is complete, but not the mitigation monitoring, which requires separate submittals.

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

Please note that your permitted activity is subject to a compliance inspection by an U.S. Army Corps of Engineers representative. If you fail to comply with this permit you are subject to permit suspension, modification, or revocation.

I hereby certify that the work authorized by the above referenced permit was completed in accordance with the terms and conditions of the above referenced permit, and any required mitigation was completed in accordance with the permit conditions.

Signature of Permittee

Date

Printed Name

Date of Work Completion

Telephone Number