

DUFRESNE GROUP CONSULTING ENGINEERS

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EROSION PREVENTION AND
SEDIMENTATION CONTROL NARRATIVE
WILMINGTON STP 013-1(14)
WILMINGTON, VERMONT
May 30, 2014



Modifications to the EPSC Narrative are as follows:

1.4.4 INSTALL SEDIMENT BARRIERS

SEDIMENT BARRIERS WILL BE UTILIZED TO INTERCEPT RUNOFF AND ALLOW SUSPENDED SEDIMENT TO SETTLE OUT. THEY WILL BE INSTALLED PRIOR TO ANY SOIL DISTURBANCE.

SILT FENCE WILL BE INSTALLED AS SHOWN ON THE EPSC PLAN.

1.4.5 DIVERT RUNOFF

SURFACE WATER WILL BE DIVERTED FROM THE EXCAVATION AREA BY CONSTRUCTING BARRIERS ALONG THE STREAM ABOVE AND BELOW THE EXCAVATION AREA. THE BARRIERS WILL CONSIST OF CONCRETE WASTE BLOCKS AND SAND BAGS COVERED WITH PLASTIC. THE BARRIERS WILL PREVENT SEDIMENT FROM ENTERING THE STREAM AND SURFACE WATER FROM ENTERING THE EXCAVATION AREA.

1.5 SEQUENCE AND STAGING

1.5.1 Construction Sequence and Implementation of EPSC Measures

1.5.1.a Construction of Box Culvert

- Site Preparation
 - Mobilize and install signage
 - Install project delineation fencing and silt fence
 - Construct stabilized construction entrance
 - Clear trees
 - Strip roadway
 - Road closure
- Culvert Construction
 - Install diversion barriers
 - Excavate roadway
 - Install dewatering pumps and filter bag south east of the work area

- Install check dams as needed
- Install culvert sections
- Place stone fill on stream bed and slopes
- Existing Culvert Removal
 - Partially remove diversion barriers to allow stream flow into new culvert
 - Reposition barriers as necessary to prevent water flow into existing culvert
 - Excavate and remove existing culvert
 - Backfill excavation area
- Site Restoration
 - Open roadway to travel
 - Remove diversion barriers
 - Install stone fill in western ditch
 - Install topsoil, seed and mulch or matting in all disturbed areas outside roadway within 48 hours of disturbance
 - Pave roadway, install guardrail
 - Remove signage and demobilize

1.5.2 Off-Site Activities

The off-site activities consist of storage of excavated materials, storage of backfill materials and staging for trailers. These activities are on two sites on a single property on Route 100 approximately 1 mile south of the job area, as follows:

Area 1: Stockpile area for excavated earthen subbase

Owner: Greg Brown, 218 Route 100 Whitingham, VT

Amount/Type of Waste or Borrow: 1,500 cy stockpile of excavated soil

Disturbance Area: 25,000 sf

EPSC measure: Silt fence around perimeter of stockpile if the material remains for greater than 48 hours

Area 2: Stockpile area for backfill aggregates

Owner: Greg Brown, 218 Route 100 Whitingham, VT

Amount/Type of Waste or Borrow: 1,000 cy stockpile of borrow materials

Disturbance Area: 25,000 sf

EPSC measure: Silt fence around perimeter of stockpile if the material remains for greater than 48 hours

1.6 Contact Information

1) On-site Plan Coordinator:

Dan Smith

M&M Excavating, Inc.

802-875-3319 (office)

802-236-1482 (cell)

Dan Smith will be onsite on a daily basis as the project superintendent responsible for the activities of M&M Excavating. As the on-site plan coordinator, Dan Smith will be responsible for completing the EPSC Plan Inspection Report.

2) Plan Preparer:

Naomi Johnson, PE

Dufresne Group

PO Box B

Windsor, Vermont

802-674-2904

njohnson@dufresnegroup.com

Naomi Johnson is a VT registered Professional Engineer and is familiar with the VT Standards and Specifications for Erosion Prevention and Sediment Control, the VAOT Standard Specifications for Construction and the project's Special Provisions and permits.

1.7 Schedule: Refer to project schedule submitted by M&M Excavating

1.8 Inspection Form: The EPSC Plan Inspection Report generated by VTTrans will be utilized for this project.