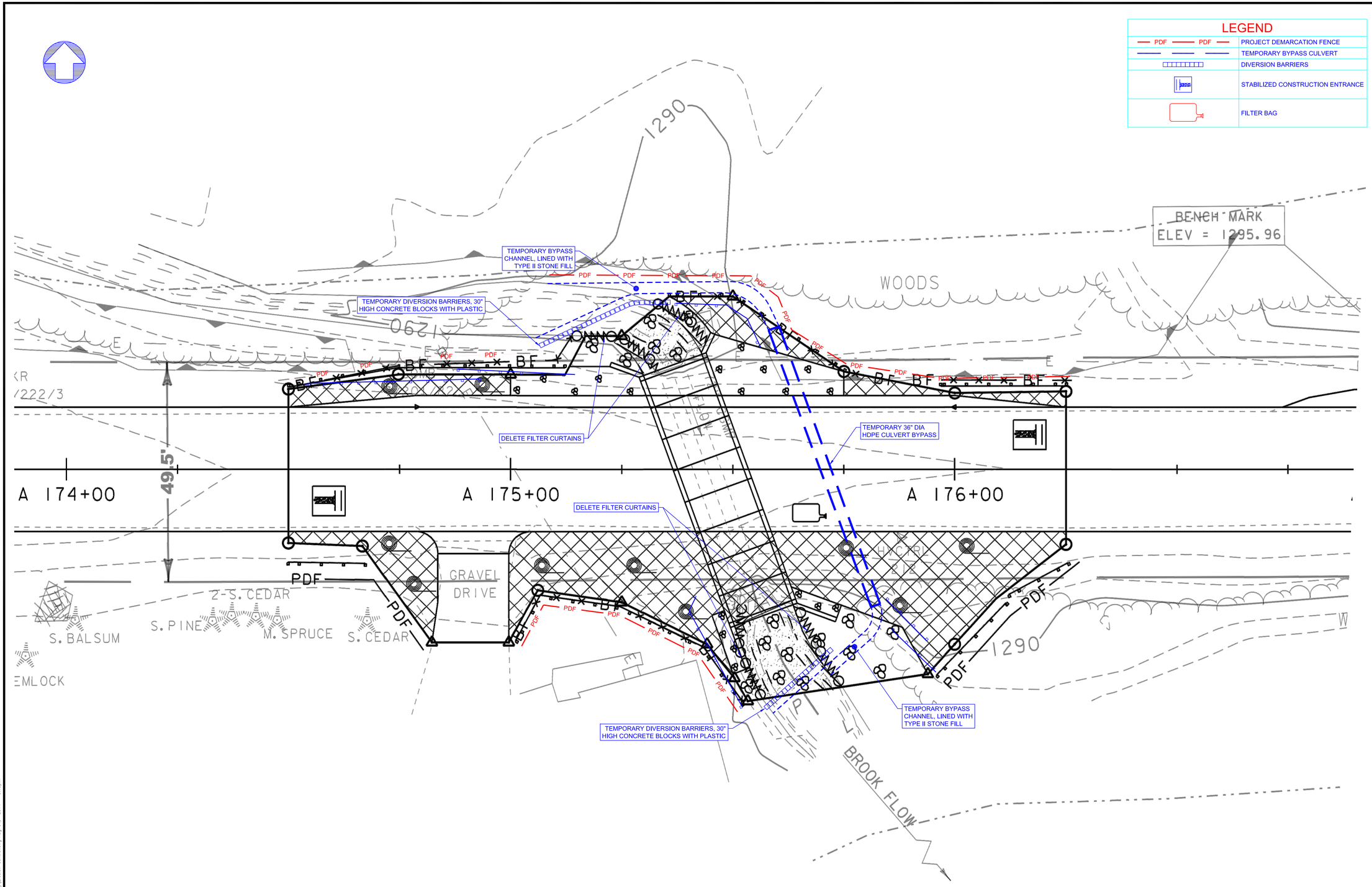

GRAPHIC SCALE

10' 0 5' 10' 20' 40'

(IN FEET)

EPSC PLAN

SCALE: 1"=10'

NOTES:

1. BASE PLAN IS FROM WARDSBORO BF 013-1(21) PLANS BY VAOT DATED 2/26/2014
2. THERE IS NO CHANGE TO THE RISK EVALUATION. THE PROJECT IS NON-JURISDICTIONAL, AS NOTED IN ITEM 1.3 OF THE EPSC PLAN NARRATIVE SHEET 20 OF 3.1, AND THE AREA OF EARTH DISTURBANCE IS NOT BEING INCREASED TO 1.0 ACRES OR MORE.
3. SILT FENCING AND PDF ARE TO BE INSTALLED AS REVISED ON THIS PLAN.

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STATE OF VERMONT
TIMOTHY P. KNAPP
No. 10793
CIV
LICENSED PROFESSIONAL ENGINEER

REVISIONS		
DATE	COMMENTS	BY

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WARDSBORO, VERMONT

EPSC PLAN

WARDSBORO BF 013-1(21)

Project #	6140011
Project Mgr.	CML
Design by	TPK
Drawn by	TPK
Reviewed by	CML
Approved by	CML
Date	8/1/14
Scale	AS SHOWN

1

SHEET 1 OF 1

FILE: P:\CADD Files\Wardsboro VT\Private Clients\BF 013-1(21)\Erosion Control.dwg, Aug 01, 2014 - 3:15pm

EROSION PREVENTION AND
SEDIMENTATION CONTROL NARRATIVE
WARDSBORO BF 013-1(21)
WARDSBORO, VERMONT
AUGUST 1, 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 30" TALL CONCRETE WASTE BLOCKS 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
  - Road closure
  - Strip roadway

- Culvert Construction
  - Install diversion barriers and temporary bypass culvert
  - Excavate roadway
  - Install dewatering pumps and filter bag
  - 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
    - Open roadway to travel

- Site Restoration
    - 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
    - Lane closure on north side of VT Route 100
    - Pave south side of roadway
    - Lane closure on south side of VT Route 100
    - Pave north side of roadway
    - 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. These activities are on one sites on a single property on Route 100 approximately 0.75 mile west of the job area, as follows:

Area 1: storage, stockpile, and staging

Owner: West Wardsboro Gravel Pit

This location is an existing, in-use commercial gravel pit. An *Off-Site Activity Exemption Record* is included with this EPSC narrative.

1.6 Contact Information

1) On-site Plan Coordinator:
Erik Baker
Kubricky Construction Corporation
269 Ballard Road
Wilton, NY 12801
802-380-2498

Erik Baker will be onsite on a daily basis as the project superintendent responsible for the activities of Kubricky Construction Corporation. As the on-site plan coordinator, Erik Baker will be responsible for completing the EPSC Plan Inspection Report.

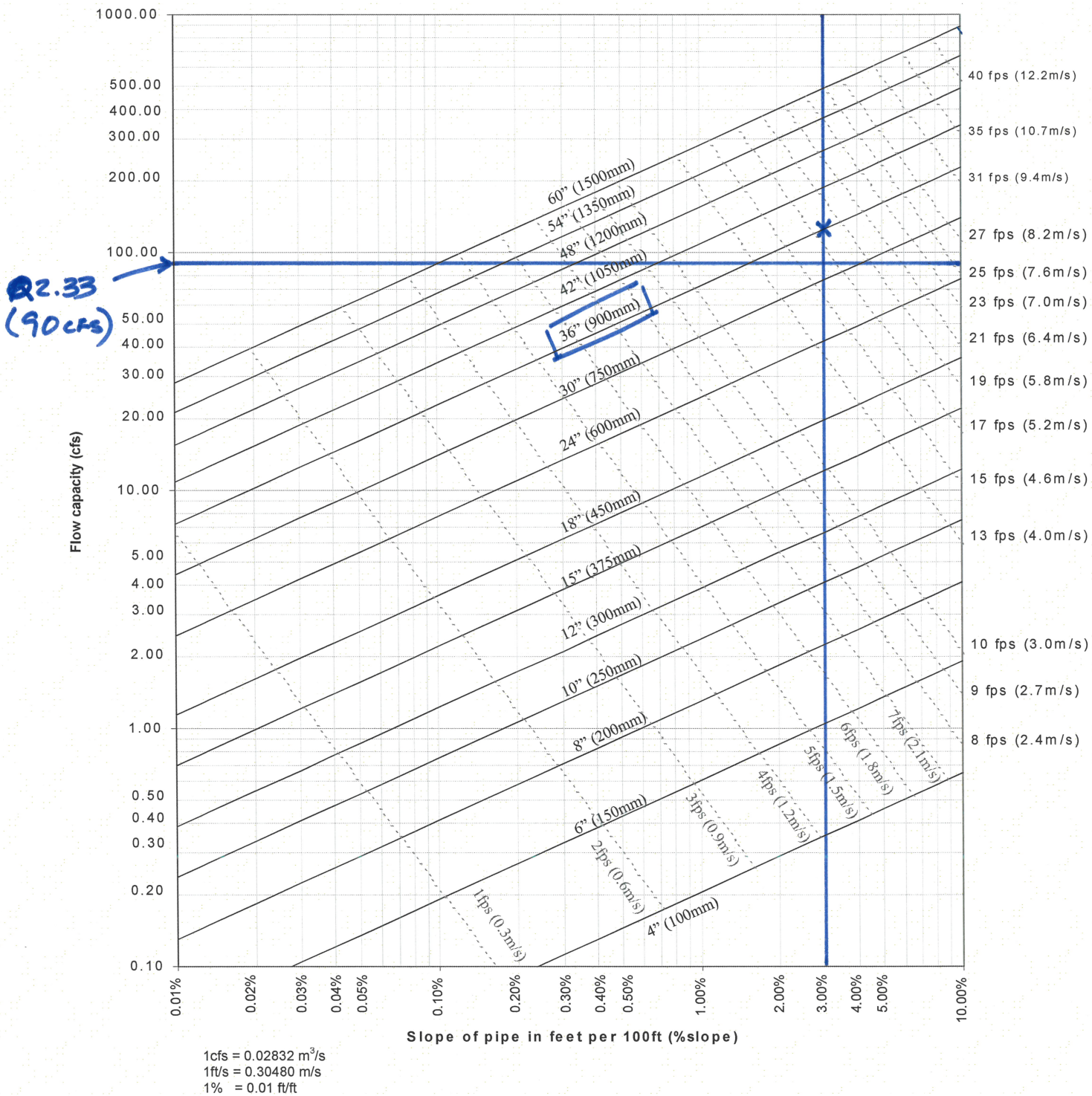
2) Plan Preparer:
Timothy P. Knapp, PE
Dufresne Group
PO Box B
Windsor, Vermont
802-674-2904
tknapp@dufresnegroup.com

Timothy Knapp 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 Kubricky Construction Corp.

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

Figure 3-1
Discharge Rates for ADS Corrugated Pipe with Smooth Interior Liner[1]



1cfs = 0.02832 m^3/s
1ft/s = 0.30480 m/s
1% = 0.01 ft/ft

1. Applicable products: N-12®, MEGA GREEN®, N-12 STIB, N-12 WTIB, N-12 HP, SaniTIte®, SaniTite HP, N-12 Low Head

Note: Based on a design Manning's "n" of 0.012.
Solid lines indicate pipe diameters. Dashed lines indicate approximate flow velocity.
Redeveloped from FHWA HDS 3 – Design Charts for Open-Channel Flow[2]

© ADS, Inc., July 2010

OFF-SITE ACTIVITY EXEMPTION RECORD

To be completed by the Contractor and filed with the Resident Engineer.
Check the appropriate exemption category from the boxes below.

Staging Area Exemptions

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

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

Borrow Site Exemptions

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

Waste Disposal Exemptions

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

Project Name: _____

Proposed Area Name: West Wardsboro Pit

Landowner Signature: Harvey Plimpton

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

Act 250 Grandfathered Signature Harvey Plimpton
(Owner or authorized representative)-