

DRAINAGE INLETS AND PIPES

Drainage inlets and underground pipes will be installed at specified intervals to help convey the surface water runoff from the roadway surface and surrounding limited permeability ground surface to the Third Branch of the White River. These structures help prevent undermined roadway surfaces and limit erosion from unchanneled flow. Drainage inlets will be installed at STA 13+66.1 LT, STA 13+67.5 RT, STA 14+55.6, STA 15+09.8 RT, STA 15+10.4 LT, STA 17+66.0 LT & RT, STA 17+77.9 RT, STA 18+26.2 RT, STA 19+00.0 RT, STA 50+29.0 LT, STA 51+06.2 LT, STA 81+57.7 RT and STA 81+49.1 RT. A stone outflow pad will be constructed at STA 81+39.1 LT. This pad will help prevent the concentrated flow leaving the drainage pipe from eroding the soil in the immediate vicinity of the end of the pipe. See Erosion control 'during construction' plan sheet.

SOIL RETENTION WALLS

Three soil retaining walls will be installed at Sta. 14+47 Rt., Sta. 80+77.0 to 81+03.8 Rt., and Sta. 200+25.0 to 200+65.0 Lt. The retaining walls allow the elimination of steep slopes on the sides of the parking lot and Prince St, respectively, which are highly susceptible to surface erosion from water runoff.

GENERAL EROSION & SEDIMENT CONTROL GUIDELINES

The Erosion Control Plans are meant as a guideline for preventing erosion and controlling sediment transport. The work outlined in this narrative consists of applying measures throughout the life of the project to control erosion and minimize the sedimentation of receiving waters. The measures include stabilization and structural practices, storm water controls and other pollution prevention controls.

Coordinate the installation, use, and removal of erosion and sediment control measures with construction activities to ensure economical, effective and continuous erosion and sediment control. Employ temporary stabilization practices in incremental stages as construction proceeds. The contractor will use additional erosion control measures as necessitated by the sequence of construction and as directed by the Engineer. See section 105.23 of the Vermont AOT Standard Specifications for Construction, dated 2001.

Install all erosion and sediment control measures as shown in the Erosion Control Plan or as directed by the Engineer. Do not modify the type, size or location of any control or practice without approval of the Engineer. Any changes shall be noted on the plans, in the weekly inspection report, and reported to the appropriate authority in a timely manner. Inspect all control measures weekly and after each rainfall event. Repair or replace any damaged measures.

Preventing initial soil erosion is much more effective than treating eroded sediment. Therefore, stabilize all disturbed areas promptly after construction activity has temporarily or permanently ceased. Temporary vegetation shall be established if the area is to be without construction activity for a period of 14 days. Perimeter control measures shall be installed following clearing, but prior to the start of any grubbing or grading activity, install other temporary controls in incremental stages as construction proceeds.

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.

Control only sediment-laden runoff generated by the project site. Collect and route clean offsite runoff around or through the project site using diversion berms, diversion channels, culverts and/or temporary pipes.

Do not allow construction equipment to operate on the down slope side of perimeter control measures.

EROSION CONTROL NARRATIVE

PROJECT NAME: RANDOLPH
PROJECT NUMBER: BRF 0241 (29)

FILE NAME: s:\tr5\88j096\s88j096xc1.dgn PLOT DATE: 29-AUG-2006
PROJECT LEADER: W. SYMONDS DRAWN BY: G. SHANGRAW
DESIGNED BY: T. SUMNER CHECKED BY: T. FILLBACH
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