

EROSION CONTROL NARRATIVE

DESCRIPTION OF PROJECT

THE PROJECT LOCATION BEGINS IMMEDIATELY SOUTH OF VT ROUTE 131 ACROSS THE BLACK RIVER FROM THE INTERSECTION OF T.H. 20 AND T.H. 19.

WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES REHABILITATION OF EXISTING COVERED BRIDGE WITH THE NECESSARY APPROACH WORK. THE APPROACH WORK WILL CONSIST OF A NEW ROADBED AND NEW GUARDRAIL.

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

TOTAL DISTURBED AREA (EXCLUDING WASTE, BORROW AND STAGING AREAS):
0.11 ACRES.

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, THEN THE SELECTED CONTRACTOR WILL BECOME RESPONSIBLE FOR ADDITIONAL PERMITTING WITH VERMONT AGENCY OF NATURAL RESOURCES VIA FILING OF THE APPROPRIATE "NOTICE OF INTENT" UNDER THE CONSTRUCTION GENERAL PERMIT PROCESS.

SITE INVENTORY & ANALYSIS

OFF SITE DRAINAGE CHARACTERISTICS:

THE PROPERTY SURROUNDING THE PROJECT SITE CONSISTS OF WELL ESTABLISHED VEGETATION, WITH STEEP SLOPES OF VARIOUS GRASSES, SHRUBS AND TREES. THE DRAINAGE WAYS ARE WELL DEFINED AND RUNOFF WATER ENTERING THE PROJECT SITE WILL BE PRIMARILY LIMITED TO THAT WHICH IS CONVEYED ALONG ROADWAY DITCHES, AND EXISTING CULVERTS.

DRAINAGE, WATERWAYS, BODIES OF WATER:

THE BLACK RIVER IS LOCATED IN THE PROJECT AREA. THE BLACK RIVER HAS A SINUOUS, SEMI-ALLUVIAL, STABLE STREAMBED. THE STREAM CONSISTS OF SAND, COBBLES, AND BOULDERS. THE STREAM BANKS ARE MODERATELY STEEP THROUGHOUT THE PROJECT. THE BLACK RIVER HAS A DRAINAGE AREA OF 114.8 SQUARE MILES.

TOPOGRAPHY, EXISTING ROADS, BUILDINGS, UTILITIES:

THE TOPOGRAPHY OF THE PROJECT SITE IS HILLY TO MOUNTAINOUS, WITH A MIXTURE OF FORESTED AND OPEN AREAS.

THE EXISTING SHAPE OF THE PROJECT AREA CAN BE SEEN BY LOOKING AT THE "EXISTING EROSION CONTROL" SHEET, WHERE THE EXISTING CONTOURS ARE SHOWN.

EXISTING SLOPES

THE PROJECT IMPACTS STEEP RIVER BANKS WITH VARYING SLOPES FROM 20 TO 40%. THE SLOPES ARE WELL VEGETATED WITH A VARYING MIX OF UNDER GROWTH AND PREDOMINANTLY DECIDUOUS TREES OF ALL SIZES.

PROPOSED SLOPES

THE PROPOSED SLOPE OUTSIDE THE GUARDRAIL AREAS ARE GENERALLY 1-2 SLOPES WHICH FLATTEN OUT TO 1-4 SLOPES NEAR THE GUARDRAIL TERMINALS. THERE IS A LARGE STONE-PROTECTED SLOPE FROM 7+60 LT. TO 8+25 LT. WHICH IS COVERED WITH A 1'-0" LAYER OF STONE FILL, TYPE I. THERE WILL BE NEW STONE FILL SLOPES SURROUNDING THE BASE OF ABUTMENT #1. THE STONE WILL BE TYPE IV AND WILL BE NO STEEPER THAN A 1-2 SLOPE.

SOILS

63E - BERKSHIRE & MONADOCK COMPLEX, 35-60% SLOPES
LOAM OVER GLACIAL TILL, VERY DEEP TO BEDROCK, WELL DRAINED
64B - COLTON FINE SANDY LOAM, 3-8% SLOPES
HIGH IN ROCK FRAGMENTS, VERY DEEP TO BEDROCK AND EXCESSIVELY DRAINED
64C - COLTON FINE SANDY LOAM, 8-15% SLOPES
HIGH IN ROCK FRAGMENTS, VERY DEEP TO BEDROCK AND EXCESSIVELY DRAINED

SENSITIVE RESOURCE AREAS:

NO "THREATENED & ENDANGERED SPECIES" HAVE BEEN IDENTIFIED WITHIN THE PROJECT LIMITS. THE PROJECT CONSISTS OF REHABILITATING A COVERED BRIDGE AND ITS SUBSTRUCTURE WHICH HAVE BEEN IDENTIFIED AS HISTORIC RESOURCES.

PROXIMITY TO NATURAL OR MAN-MADE WATER FEATURES:

DISTURBANCE OF SOILS NEAR NATURAL OR MAN-MADE WATERWAYS CONSISTS OF THAT WHICH IS NECESSARY TO REHABILITATE THE COVERED BRIDGE AND APPROACHES. STABILIZATION OF DISTURBANCES TO STREAM BANKS WILL BE ACCOMPLISHED WITH STONE FILL, TYPE IV.

TEMPORARY EROSION AND SEDIMENT CONTROL

PRIOR TO ANY CONSTRUCTION ACTIVITIES, THE PROJECT DEMARCATION FENCING SHALL BE PLACED ALONG THE PERIMETER OF THE PROJECT AS SHOWN ON THE TEMPORARY EROSION PREVENTION AND SEDIMENT CONTROL PLANS (SHEET 20). THE INSTALLATION

OF THE DEMARCATION FENCING WILL BE PERFORMED SUCH THAT NO VEGETATION ON THE OUTSIDE OF THE FENCING IS DISTURBED.

PRIOR TO ANY CONSTRUCTION OR STAGING, THE CONTRACTOR WILL INSTALL VEHICLE TRACKING PADS LEADING TO STAGING AREAS AND THE PROJECT SITE. TRACKING PAD SHALL BE INSTALLED AS SHOWN AND DESCRIBED ON DETAIL SHEET EPSC-4 VEHICLE TRACKING PAD.

SILT FENCE SHALL BE PLACED ALONG CONTOUR LINE AT LOCATIONS ILLUSTRATED ON THE TEMPORARY EROSION PREVENTION AND SEDIMENT CONTROL LAYOUT (SHEET 20). SILT FENCE SHALL BE INSTALLED AS SHOWN AND DESCRIBED ON THE DETAIL SHEET EPSC-1 SILT FENCE (SHEET 22).

STONE CHECK DAMS SHALL BE PLACED AT LOCATIONS OF CONCENTRATED FLOW AS SHOWN ON THE TEMPORARY EROSION PREVENTION AND SEDIMENT CONTROL LAYOUT (SHEET 20). STONE CHECK DAMS SHALL BE INSTALLED AS SHOWN AND DESCRIBED ON DETAIL SHEET EPSC-2 TEMPORARY CHECK DAM (SHEET 23).

TRACKING & MULCHING WILL BE USED TO TEMPORARILY STABILIZE SLOPES. USE TRACKING FOR SHORT TERM (TWO WEEKS) EXPOSED SLOPES. DRIVE EQUIPMENT ON THE SLOPES TO LEAVE TRACKS (SMALL CHECK DAMS) THAT WILL CATCH WATER FLOW. STABILIZE SLOPES WITHIN 48 HOURS OR SOONER CONSIDERING RAIN.

SEEDING AND MULCHING WILL BE USED TO STABILIZE SLOPES. USE SEEDING FOR LONG TERM EXPOSED SLOPES. ALLOW GRASS TO TAKE TWO WEEKS TO ESTABLISH ITSELF. STABILIZE SLOPES WITHIN 48 HOURS OR SOONER CONSIDERING RAIN.

INLET PROTECTION, COFFERDAMS, SETTLING BASINS, FILTER BAGS, OR OTHER SEDIMENT STRUCTURES ARE NOT EXPECTED TO BE REQUIRED FOR THIS PROJECT.

FINAL EROSION CONTROLS

REMOVAL OF SILT FENCE SHALL COMMENCE ONLY AFTER ALL UPSLOPE AREAS ARE STABILIZED AND WELL ESTABLISHED, AND THE RESIDENT ENGINEER HAS APPROVED THE REMOVAL.

REMOVE PERIMETER CONTROLS (PROJECT DEMARCATION FENCE) ONLY AFTER ALL CONSTRUCTION ACTIVITIES ARE COMPLETED AND ALL SLOPES ARE STABILIZED AND WELL ESTABLISHED.

TOWN HIGHWAY 20 WILL BE A GRAVEL ROAD THAT WILL ALLOW SOME INFILTRATION OF RAINWATER. THE REMAINING WATER WILL BE SHEET FLOW TO EITHER A STONE FILL DITCH OR AN ESTABLISHED VEGETATION BUFFER.

SEEDING AND MULCHING ON ALL DISTURBED SIDE SLOPES TO ESTABLISH PERMANENT VEGETATION. SEE EROSION CONTROL FINAL CONDITIONS LAYOUT (SHEET 21) FOR LOCATIONS OF AREAS TO BE RE-VEGETATED.

STONE FILL TYPE I WILL BE PLACED TO LINE TWO ROADWAY DITCHES FROM STATIONS 7+40 LT TO STATION 8+25 LT AND 7+60 RT TO 8+00 RT. SEE EROSION CONTROL FINAL CONDITIONS LAYOUT (SHEET 21) FOR LOCATION. GEOTEXTILE UNDER STONE FILL WILL BE USED TO INCREASE THE EFFECTIVENESS OF THE STONE FILL PREVENTING EROSION.

REMOVAL OF CHECK DAMS CAN OCCUR AFTER VEGETATED DITCHES HAVE ESTABLISHED GROWTH OR STONE LINED DITCHES ARE COMPLETED.

GENERAL EROSION & SEDIMENT CONTROL GUIDELINES

THE CONTRACTOR WILL USE OTHER TEMPORARY OR PERMANENT EROSION CONTROL DEVICES AS NECESSITATED BY THE SEQUENCE OF CONSTRUCTION AND AS DIRECTED BY THE RESIDENT ENGINEER. SEE SECTION 105 OF THE 2006 VERMONT STANDARD SPECIFICATIONS FOR CONSTRUCTION AND SPECIAL PROVISION SECTION 652.

THE CONTRACTOR SHALL INSTALL EROSION AND SEDIMENT CONTROL MEASURES AS SEQUENCED IN THE "SPECIFIC GUIDELINES", OR AS DIRECTED BY THE RESIDENT ENGINEER. THE TYPE, SIZE, AND LOCATION OF ANY EROSION CONTROL DEVICES SHALL NOT BE CHANGED UNLESS PRIOR APPROVAL IS OBTAINED FROM THE RESIDENT ENGINEER. ANY APPROVED CHANGES SHALL BE NOTED ON THE EROSION CONTROL PLANS AND DISCUSSED IN THE WEEKLY REPORT. HOWEVER, IN EMERGENCY SITUATIONS WHERE THE RESIDENT ENGINEER IS NOT IMMEDIATELY AVAILABLE, THE CONTRACTOR SHOULD REPAIR OR INSTALL THE EROSION CONTROLS AS THEY DEEM NECESSARY AND REPORT THE INCIDENT TO THE RESIDENT ENGINEER AS SOON AS PRACTICAL.

THE CONTRACTOR SHALL CONTROL ALL SEDIMENT-LADEN RUNOFF GENERATED WITHIN THE PROJECT SITE. CLEAN RUNOFF FROM OUTSIDE THE PROJECT SITE SHALL BE ROUTED THROUGH THE PROJECT USING DIVERSION BERMS, DIVERSION CHANNELS, AND TEMPORARY OR PERMANENT CULVERTS.

IN GENERAL, PRESERVE EXISTING VEGETATION, SHRUBS, AND TREES WHENEVER POSSIBLE.

THE PLAN PREPARER WILL BE AVAILABLE FOR ON-SITE CONSULTATIONS WITH THE RESIDENT ENGINEER WITHIN TWENTY-FOUR HOURS OF THE REQUEST.

ALL SEDIMENTS REMOVED FROM EROSION AND SEDIMENT CONTROL MEASURES SHALL BE DEPOSITED IN AN UPLAND PORTION OF THE PROJECT SITE OR DEPOSITED OFF SITE IN THE DESIGNATED PROJECT WASTESITE.

ANY MATERIAL STOCKPILES, INCLUDING BUT NOT LIMITED TO, GRUBBING MATERIAL, SAND BORROW, EARTH BORROW, GRANULAR BORROW, TOPSOIL, AND ANY EXCAVATED WASTE PILES SHALL BE MULCHED AND SHALL ALSO HAVE SILT FENCE INSTALLED AROUND THE BASE OF THE STOCKPILE.

PROJECT NAME: WEATHERSFIELD

PROJECT NUMBER: BHO 1442(29)

FILE NAME: /96j234/str/s96j234ecn1.xls

PLOT DATE: 2/22/2007

PROJECT LEADER: W. SYMONDS

DRAWN BY: G. SHANGRAW

DESIGNED BY: T. FILLBACH

CHECKED BY: T. SUMNER

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SHEET 18 OF 60