EROSION CONTROL NARRATIVE

1.1 PROJECT DESCRIPTION

THIS PROJECT IS LOCATED ON I-89 IN SHARON, VERMONT BETWEEN MILE MARKERS 0.05 AND 12.25. THE SCOPE OF THE PROJECT INCLUDES ROADWAY REPAVING AND THE RECONSTRUCTION OF APPROXIMATELY 215' OF ROADWAY , SUBBASE AND SUBGRADE BETWEEN THE MILE MARKERS 7.97 AND 8.01. A TEMPORARY ROADWAY WIDENING WILL BE CONSTRUCTED ON EITHER SIDE OF THE ROADWAY RECONSTRUCTION AREA TO SHIFT TRAFFIC FROM THE TRAVEL AND PASSING LANES DURING RECONSTRUCTION EFFORTS.

NOTE: AREA OF DISTURBANCE SHALL INCLUDE LIMITS OF EARTH DISTURBANCE WITHIN THE PROJECT AREA, INCLUDING ANY WASTE, STAGING AND BORROW AREAS WITHIN OR DIRECTLY ADJACENT TO THE PROJECT LIMITS.

TOTAL AREA OF DISTURBANCE IS APPROXIMATELY 0.45 ACRES.

IT IS ANTICIPATED THAT THE WORK WITHIN THE AREA OF DISTURBANCE WILL LAST APPROXIMATELY ONE MONTH.

1.2 SITE INVENTORY

1.2.1 OFF SITE DRAINAGE CHARACTERISTICS (UP AND DOWN-GRADIENT)

ALL PROPOSED WORK IS WITHIN THE EXISTING I-89 ROADWAY AND MEDIAN, THEREFORE SURROUNDING PROPERTY CONSISTS OF PAVED ROADWAY, GRASS MEDIAN, AND LEDGE CUT. AREAS OUTSIDE OF THE ROADWAY CORRIDOR ARE PRIMARILY WELL ESTABLISHED FOREST WITH MODERATE TO STEEP SLOPES. RUNOFF ENTERS THE CORRIDOR FROM THE EAST VIA SMALL STREAMS AND SHEET FLOW AND IS COLLECTED AND CONVEYED ACROSS THE CORRIDOR TO THE WEST VIA CLOSED DRAINAGE SYSTEMS AND CULVERTS.

1.2.2 DRAINAGE, WATERWAYS, BODIES OF WATER, AND PROXIMITY TO NATURAL OR MAN-MADE WATER FEATURES

THERE ARE NO WATERWAYS IN CLOSE PROXIMITY TO THE AREA OF PROPOSED DISTURBANCE. THE WHITE RIVER IS LOCATED APPROXIMATELY 1,500' TO THE WEST OF THE ROADWAY RECONSTRUCTION. TIGERTOWN BROOK IS LOCATED APPROXIMATELY 150' SOUTH OF THE ROADWAY RECONSTRUCTION.

1.2.3 TOPOGRAPHY, EXISTING ROADS, BUILDINGS, UTILITIES

THE TOPOGRAPHY OF THE AREA IS MODERATELY STEEP IN THE ROADWAY RECONSTRUTION AREA. THE TOPOGRAPHY IS TYPICAL OF INTERSTATE HIGHWAYS WITH PAVED ROADWAYS, MOWED GRASS MEDIANS, LEDGE CUTS, ROCK FILLS, AND DRAINAGE STRUCTURES AND SYSTEMS. THERE ARE NO BUILDINGS OR UTILITIES WITHIN THE PROJECT AREA.

1.2.4 VEGETATION

VEGETATION IN THE PROJECT AREA CONSISTS OF MOWED GRASS IN THE MEDIANS AND HARDWOOD AND SOFTWOOD TREES AND UNDERGROWTH OUTSIDE OF THE ROADWAY CORRIDOR. THE IMPACT TO VEGETATION WILL BE LIMITED TO THAT WHICH IS DIRECTLY AFFECTED BY THE ROADWAY RECONSTRUCTION AREA. AS PROPOSED SLOPES ARE MODERATELY STEEP (3:1 TYPICAL) VEGETATION WILL BE REESTABLISHED WITH STANDARD SEED, MULCH AND TEMPORARY EROSION MATTING PRACTICES. SILT FENCE WILL BE USED TO CONTAIN SEDIMENT PRIOR TO REVEGETATION.

1.2.5 SOILS

SOIL CLASSIFICATION HAS NOT BEEN IDENTIFIED IN THE AREA AT THIS TIME.

IT IS IMPORTANT TO NOTE THAT ALL AREAS OF PROPOSED DISTURBANCE HAVE BEEN PREVIOUSLY DISTURBED AS PART OF THE ORIGINAL I-89 CONSTRUCTION. EXISTING SOILS ARE LIKELY ROCK, GRAVEL, SAND, AND LOAM PLACED AS PART OF THE ORIGINAL CONSTRUCTION.

1.2.6 SENSITIVE RESOURCE AREAS

THERE IS NO SIGNIFICANT IMPACT TO ANY "THREATENED & ENDANGERED SPECIES", PRIME AGRICULTURAL LANDS, JURISDICTIONAL WETLANDS, OR CRITICAL HABITATS WITHIN THE PROPOSED AREAS OF DISTURBANCE

1.3 RISK EVALUATION

ALTHOUGH A DETAILED RISK EVALUATION HAS NOT BEEN PERFORMED THIS PROJECT WILL LIKELY BE LOW RISK THEREFORE, THE LOW RISK HANDBOOK MUST BE ON SITE AND COMPLIED WITH DURING CONSTRUCTION.

SHOULD CHANGES PRIOR TO OR DURING CONSTRUCTION RESULT IN A POTENTIAL CHANGE IN THE RISK THEN THE SELECTED CONTRACTOR WILL BE RESPONSIBLE FOR ADDITIONAL PERMITTING WITH VANR VIA FILING OF THE APPROPRIATE NOTICE OF INTENT UNDER THE CONSTRUCTION PERMIT PROCESS.

1.4 EROSION PREVENTION AND SEDIMENT CONTROL

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 MINIMIZING SEDIMENT TRANSPORT TO THE RECEIVING WATERS. THE MEASURES INCLUDE STABILIZATION AND STRUCTURAL PRACTICES, STORM WATER CONTROLS AND OTHER POLLUTION PREVENTION CONTROLS.

PREVENTING INITIAL SOIL EROSION IS MUCH MORE EFFECTIVE THAN TREATING ERODED SEDIMENT. 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.

ALL MEASURES SHALL BE REGULARLY MAINTAINED AND SHALL BE CHECKED FOR SEDIMENT BUILD-UP. SEDIMENT SHALL BE DISPOSED AT AN APPROVED SITE WHERE IT WILL NOT BE SUBJECT TO EROSION.

REFER TO THE LOW RISK SITE HANDBOOK AND APPROPRIATE DETAIL SHEETS FOR EACH PRACTICE REQUIRED ON THE PROJECT TO INCLUDE BUT NOT LIMITED TO THOSE NOTED BELOW.

1.4.2 LIMIT DISTURBANCE AREA

EMPLOY TEMPORARY STABILIZATION PRACTICES IN INCREMENTAL STAGES (PHASING) AS CONSTRUCTION PROCEEDS. ADDITIONAL MEASURES MAY BE NEEDED DUE TO THE PHASING OF THE PROJECT AND AS DIRECTED BY THE ENGINEER.

1.4.3 STABILIZE CONSTRUCTION EXIT

CONSTRUCTION WILL BE PRIMARILY FROM THE ROADWAY THEREFORE NO CONSTRUCTION ENTRANCE WILL BE UTILIZED.

1.4.4 INSTALL SILT FENCE

SILT FENCE SHALL BE INSTALLED PRIOR TO ANY UP SLOPE WORK AS SHOWN ON THE PLANS OR AS NECESSARY.

1.4.5 DIVERT UPLAND RUNOFF

NOT REQUIRED.

1.4.6 SLOW DOWN CHANNELIZED RUNOFF

NOT REQUIRED.

1.4.7 CONSTRUCT PERMANENT CONTROLS

DRAINAGE INLETS AND PIPES
SEE, MULCH AND TEMPORARY EROSION MATTING

1.4.8 STABILIZE EXPOSED SOILS

INLET PROTECTION DEVICE, TYPE I

1.4.9 WINTER STABILIZATION

VARIOUS MEASURES SPECIFIC TO WINTER (SEE LOW RISK HANDBOOK)

1.4.10 STABILIZE SOIL AT FINAL GRADE

SEED, MULCH AND TEMPORARY EROSION MATTING

1.4.11 DE-WATERING ACTIVITIES

NONE

1.4.12 INSPECT YOUR SITE

INSPECT SITE BASED ON PERMIT AUTHORIZATION REQUIREMENTS.

1.5 SEQUENCE AND STAGING

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

1.5.1 CONSTRUCTION SEEQUENCE

1.5.2 OFF-SITE ACTIVITIES

IN ADDITION TO THE CONTRACTOR CHECKLIST ANY ACTIVITIES OUTSIDE THE CONSTRUCTION LIMITS SHALL FOLLOW SPECIFICATION 105.25 - 105.29 OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION.

1.5.3 UPDATES

EROSION CONTROL NARRATIVE SHEET

PROJECT NAME: HARTFORD-SHARON
PROJECT NUMBER: IM 089-1(57)

FILE NAME: 97A184.dgn
PROJECT LEADER: CDL
DESIGNED BY: SJL
PLOT FILE: 97A184_34.1

PLOT DATE: 13-AUG-2010
DRAWN BY: SJL
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