EROSION CONTROL NARRATIVE

1.1 PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE REMOVAL OF EXPOSED LEDGE AT IDENTIFIED LOCATIONS FOR SAFETY ENHANCEMENTS.

NOTE: AREA OF DISTURBANCE SHALL INCLUDE LIMITS OF EARTH DISTURBANCE WITHIN THE PROJECT AREA AT SPECIFIC LEDGE REMOVAL LOCATIONS

TOTAL AREA OF DISTURBANCE IS APPROXIMATELY TWO ACRES.

IT IS ANTICIPATED THAT THIS PROJECT WILL LAST TWO CONSTRUCTION SEASONS.

1.2 SITE INVENTORY

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

THE PROPERTY SURROUNDING THE PROJECT SITE CONSISTS OF WELL ESTABLISHED FOREST WITH MODERATE SLOPES AT THE PROJECT SITE. DUE TO THE NATURE OF THE SURROUNDING TERRAIN THE PROJECT SITE COULD RECEIVE RUNOFF WATER FROM A FEW NEARBY SLOPES. IF THIS IS THE CASE, IT SHOULD BE MINIMAL.

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

UNNAMED TRIBUTARY TO THE CONNECTICUT RIVER.

1.2.3 TOPOGRAPHY, EXISTING ROADS, BUILDINGS, UTILITIES

THE TOPOGRAPHY OF THE WORK AREAS IS OF LEDGE (SOLID ROCK). INTERSTATE 91 NORTH AND SOUTHBOUND ARE THE ONLY ROADS WITHIN THE DESIGNATED LEDGE REMOVAL SITES.

1.2.4 VEGETATION

THE VEGETATION IN THE PROJECT AREA CONSISTS OF SOFT AND HARDWOOD TREES, UNDERGROWTH, AND GRASS LINED DITCHES. THE IMPACT TO VEGETATION WILL BE LIMITED TO THAT WHICH IS DIRECTLY AFFECTED BY LEDGE REMOVAL. DISTURBED VEGETATION WILL BE REESTABLISHED WITH STANDARD SEED & MULCH PRACTICES AND EROSION MATTING.

1.2.5 SOILS

ALL SOIL DATA CAME FROM THE U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE FOR THE COUNTIES OF WINDSOR & ORANGE, VERMONT. SOILS ON THE PROJECT SITE ARE

BARREL/MILE MARKER	OUTSIDE OR MEDIAN	MUNAME - SOIL NAME, SLOPE, K
SB EXIT 11 TO RT 5	OUT	Vershire-Dummerston complex, 8 to 15 percent slopes, rocky, k=.28/.32
		Glover-Vershire complex, 15 to 35 percent slopes, very rocky, k=.32/.28
SB 71.25 TO BRIDGE	OUT	Glover-Vershire complex, 35 to 60 percent slopes, very rocky, k=.37/.28
		Hitchcock silt loam, 15 to 25 percent slopes, k=0.49
NB 71.55 TO 71.65	MED	Glover-Vershire complex, 15 to 35 percent slopes, very rocky, k=.32/.28
SB 71.55 TO 71.70	MED	Glover-Vershire complex, 15 to 35 percent slopes, very rocky, k=.32/.28
NB 71.55 TO 71.70	OUT	Glover-Vershire complex, 15 to 35 percent slopes, very rocky, k=.32/.28
SB 71.60 TO 71.68	OUT	Glover-Vershire complex, 15 to 35 percent slopes, very rocky, k=.32/.28
SB 77.28 TO 77.52	OUT	Hitchcock silt loam, 8 to 15% slopes, k=0.49 Hitchcock silt loam, 15 to 25% slopes, k=0.49 Hitchcock silt loam, 25 to 50% slopes, k=0.49 Glover-Vershire complex, 15 to 35% slopes, very rocky, k=.32/.28
BARREL/MILE MARKER	OUTSIDE OR MEDIAN	MUNAME - SOIL NAME, SLOPE, K
SB 86.63 TO 86.75	OUT	Belgrade silt loam, 8 to 15 % slopes k=0.49 Colrain stony fine sandy loam, 8 to 15 percent slopes, k=0.24 Tunbridge-Woodstock very rocky fine sandy loams, 8 to 25 % slopes, k=0.2
SB 89.45 TO 89.62	OUT	Belgrade silt loam, 8 to 15 % slopes, k=0.49 Tunbridge-Woodstock very rocky fine sandy loams, 8 to 25 % slopes, k=0.2
SB 89.65 TO 89.92	OUT	Belgrade silt loam, 0 to 8 % slopes k=0.49 Belgrade silt loam, 8 to 15 % slopes k=0.49 Tunbridge-Woodstock complex, 25 to 50 % slopes, k=0.2
SB 95.5 TO 96.0	OUT	Cabot very stony silt loam, 3 to 5 % slope, k=0.28 Colrain very stony fine sandy loam, 8 to 25% slope, k=0.2
NB 95.65 TO 95.75	OUT	Colrain very stony fine sandy loam, 8 to 25% slope, k=0.2 Tunbridge-Woodstock complex, 25 to 50 % slopes, k=0.2
NB 95.73 TO 95.95	MED	Colrain very stony fine sandy loam, 8 to 25% slope, k=0.2

NOTE: K-VALUES GENERALLY INDICATE THE FOLLOWING: 0.0-0.23 = LOW EROSION POTENTIAL; 0.24-0.36 = MODERATE EROSION POTENTIAL: 0.37 AND HIGHER = HIGH EROSION POTENTIAL.

1.2.6 SENSITIVE RESOURCE AREAS

CRITICAL HABITATS: NO
HISTORICAL OR ARCHEOLOGICAL AREAS: NO
PRIME AGRICULTURAL LAND: NO
THREATENED AND ENDANGERED SPECIES: NO
WATER RESOURCE: NO
WETLANDS: NO

1.3 RISK EVALUATION

THIS PROJECT FALLS UNDER THE JURISDICTION OF THE CONSTRUCTION GENERAL PERMIT 3-9020 (2006) ISSUED BY THE VT ANR. BASED ON THE RISK ASSESSMENT THIS PROJECT IS CONSIDERED LOW RISK. *THE LOW RISK SITE HANDBOOK FOR EROSION PREVENTION AND SEDIMENT CONTROL* SHALL BE KEPT ON-SITE AND COMPLIED WITH ALONG WITH THE EPSC PLAN. ANY MODIFICATIONS TO THE PROJECT THAT WOULD POTENTIALLY INCREASE THE RISK TO THE ENVIRONMENT SHALL BE RE-EVALUATED. SHOULD THE RISK CHANGE THE CONTRACTOR WILL BE RESPONSIBLE FOR ADDITIONAL PERMITTING WITH VANR VIA FILING OF THE APPROPRIATE NOTICE OF INTENT UNDER THE CONSTRUCTION GENERAL PERMIT PROCESS. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH THE CONSTRUCTION GENERAL PERMIT 3-9020 (2006) LOW RISK AUTHORIZATION STIPULATIONS INCLUDED IN THE CONTRACT DOCUMENTS.

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 POLLLUTION PREVENTION CONTROLS.

ALL MEASURES SHALL BE REGULARLY MAINTAINED AND SHALL BE CHECKED FOR SEDIMENT BUILD-UP. SEDIMENT SHALL BE DISPOSED AT AN APPPROVED 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 THE FOLLOWING.)

1.4.1 MARK SITE BOUNDARIES

PROJECT DEMARCATION FENCING, DENOTED ON THE PLANS AS -PDF- IS USED TO DELINEATE THE LIMIT THE CONTRACTOR CAN WORK TO WITH CONSTRUCTION EQUIPMENT. INSIDE THIS LIMIT, THE AREA CAN BE DISTURBED.

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

NOT APPLICABLE

1.4.4 INSTALL SILT FENCE

NOT APPLICABLE

1.4.5 DIVERT UPLAND RUNOFF

NOT APPLICABLE

1.4.6 SLOW DOWN CHANNELIZED RUNOFF

NOT APPLICABLE

1.4.7 CONSTRUCT PERMANENT CONTROLS

NOT APPLICABLE

1.4.8 STABILIZE EXPOSED SOILS

SEED AND MULCH
EROSION MATTING

TRACKING OF ALL EXPOSED SLOPES, COMBINED WITH TEMPORARY MULCHING, WILL BE UTILIZED ON A REGULAR BASIS. SLOPES SHALL BE STABILIZED WITHIN 48 HOURS OF FORECASTED RAIN.

SEEDING, MULCHING AND BIODEGRADABLE EROSION CONTROL MATTING OR AN EQUIVALENT SHALL BE USED TO STABILIZE ALL SLOPES STEEPER THAN 1:3. THESE SLOPES SHALL BE STABILIZED WITHIN 48 HOURS OF REACHING INTERMITTENT PHASES OF CONSTRUCTION.

1.4.9 WINTER STABILIZATION

VARIOUS MEASURES SPECIFIC TO WINTER (SEE LOW RISK HANDBOOK)

1.4.10 STABILIZE SOIL AT FINAL GRADE

SEED AND MULCH
EROSION MATTTING

SEEDING, MULCHING AND BIODEGRADABLE EROSION CONTROL MATTING OR AN EQUIVALENT SHALL BE USED TO STABILIZE ALL SLOPES STEEPER THAN 1:3. THESE SLOPES SHALL BE STABILIZED WITHIN 48 HOURS OF REACHING FINAL GRADE.

1.4.11 DE-WATERING ACTIVITIES

NOT APPLICABLE

1.4.12 INSPECT YOUR SITE

THE SITE SHALL BE INSPECTED AT LEAST ONCE EVERY 7 DAYS AND AFTER EVERY RAIN EVENT OR SNOW MELT THAT RESULTS IN A DISCHARGE FROM THE SITE.

EROSION CONTROL NOTES

PROJECT NAME:	HARTFORD - NEWBURY
PROJECT NUMBER:	IM 091- 2(72)

FILE NAME:	d99a052_frm.dgn	PLOT DATE:	21-JUL-2009
PROJECT LEADER:	K. UPMAL	DRAWN BY:	N. PAPPAS
DESIGNED BY:	N. PAPPAS	CHECKED BY:	A. BOMBARDIER
IPARM FILE NAME:	d99a052_ero_notes	SHEET 5	OF 45