

EROSION PREVENTION AND SEDIMENT CONTROL NARRATIVE

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1.1 PROJECT DESCRIPTION

THE ROCKINGHAM INTERSTATE 91 CULVERT REHABILITATION PROJECT INCLUDES WORK TO BE PERFORMED AT ONE ISOLATED LOCATION, MILE MARKER 0.351 ON THE INTERSTATE 91 NORTHBOUND EXIT 6 OFF-RAMP IN THE TOWN OF ROCKINGHAM, COUNTY OF WINDHAM.

THE PROJECT WILL CONSIST OF ONE INSTALLATION OF A CURED-IN-PLACE PIPE LINER, INSTALLATION OF A CONCRETE HEADWALL AND WINGWALLS. TOPSOIL, SEED, MULCH OR STONE-FILL SHALL BE APPLIED TO ALL DISTURBED AREAS. TYPE III STONE FILL WILL BE PLACED AT CULVERT INLET AND TYPE IV AT CULVERT OUTLET.

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 0.522 ACRES.

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

1.2 SITE INVENTORY

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

THE ROCKINGHAM INTERSTATE 91 NORTHBOUND EXIT 6 OFF RAMP PROJECT IS LOCATED IN A RURAL AREA. THE PROJECT SITE WILL MAINLY RECEIVE RUNOFF FROM THE ROADWAY AND WOODED AREAS.

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

THE CULVERT LOCATED AT MILE MARKER 0.351 CARRIES WATER FROM A SMALL STREAM BENEATH THE NORTHBOUND EXIT 6 OFF-RAMP. THE UNNAMED STREAM COLLECTS RUNOFF FROM AN AREA WEST OF DARBY ROAD AND WEST OF THE INTERSTATE.

1.2.3 TOPOGRAPHY, EXISTING ROADS, BUILDINGS, UTILITIES

THE ROADWAY EMBANKMENT PRIMARILY INCLUDES 1:2 SIDE SLOPES. THE CULVERT INLET AND OUTLET ARE GENERALLY EXPOSED TO EITHER MODERATE SIDE SLOPES OR SWALES. THE MAJORITY OF THE PROJECT IS LOCATED IN A GRASSED AREA. WOODED AREAS ARE LOCATED EAST AND WEST OF THE NORTHBOUND EXIT 6 OFF-RAMP. PAVED AREAS INCLUDE THE EXISTING INTERSTATE AND OFF RAMP.

1.2.4 VEGETATION

VEGETATION IMPACTS RESULTING FROM THIS PROJECT INCLUDE LOCALIZED CLEARING OF VEGETATION ON EMBANKMENT SIDE-SLOPES BETWEEN THE EXISTING EDGES OF PAVEMENT AND TOES OF SLOPE.

1.2.5 SOILS

ALL SOIL DATA CAME FROM THE U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE FOR THE COUNTY OF WINDHAM, VERMONT. THE CONSTRUCTION ACTIVITIES AT MILE MARKER 0.351 ARE IN THE EXISTING STATE R.O.W. THE SOIL AT THIS LOCATION IS FILL MATERIAL PLACED DURING THE CONSTRUCTION OF THE INTERSTATE AND THERE ARE NO LISTED CORRESPONDING K-FACTORS

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: UNNAMED STREAM
WETLANDS: NO

1.3 RISK EVALUATION

THIS PROJECT DOES NOT FALL UNDER THE JURISDICTION OF CONSTRUCTION GENERAL PERMIT 3-9020 BASED ON THE PROJECT IMPACT AREA. 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 BE RESPONSIBLE FOR ADDITIONAL PERMITTING WITH VANR VIA FILING OF THE APPROPRIATE NOTICE OF INTENT UNDER THE CONSTRUCTION GENERAL 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 THE FOLLOWING.) THIS BOOK CAN BE DOWNLOADED AT THE FOLLOWING WEB ADDRESS:
[HTTP://WWW.VTWATERQUALITY.ORG/STORMWATER/HTM/SW_CGP.HTM](http://www.vtwaterquality.org/stormwater/hm/sw_cgp.htm)

PROJECT DEMARCATION FENCING, DENOTED -PDF- ON THE PLANS IS USED TO DELINEATE THE LIMITS THE CONTRACTOR CAN ACCESS WITH CONSTRUCTION EQUIPMENT. THIS MEASURE LIMITS THE AREA THAT CAN BE DISTURBED AND EXPOSED TO EROSION.

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.

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

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.

1.4.1 DEWATERING ACTIVITIES

A DEWATERING PLAN SHALL BE SUBMITTED BY THE CONTRACTOR PRIOR TO CONSTRUCTION ACTIVITIES FOR REVIEW BY THE VERMONT AGENCY OF NATURAL RESOURCES. EFFORTS SHOULD BE MADE BY THE CONTRACTOR TO PERFORM WORK IN LOW FLOW CONDITIONS IN COORDINATION WITH THE RESIDENT ENGINEER.

PROJECT NAME: ROCKINGHAM

PROJECT NUMBER: IM SCRP(5)

FILE NAME: d07a108erod.dgn

PROJECT LEADER: K. UPMAL

DESIGNED BY: T. GUAZZONI

EPSC NARRATIVE

PLOT DATE: 30-JUL-2008

DRAWN BY: T. GUAZZONI

CHECKED BY: K. UPMAL

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