

DESCRIPTION OF PROJECT

THIS PROJECT INVOLVES THE CONSTRUCTION OF A CENTER LEFT TURN LANE ALONG VT 78 THAT IS LOCATED AT THE INTERSECTIONS OF I-89 (EXIT-21) AND VT 78 IN THE TOWN OF SWANTON.

IT IS ANTICIPATED THIS PROJECT WILL LAST ONE SEASON.

TOTAL DISTURBED AREA IS 1.05 ACRES.

SITE INVENTORY & ANALYSIS

OFF SITE DRAINAGE CHARACTERISTICS:

INSIDE OF THE STATE RIGHT-OF-WAY AND THE PROPERTIES SURROUNDING THE PROJECT CONSIST OF ESTABLISHED VEGETATION OF GRASSES AND WOODED AREAS.

DRAINAGE, WATERWAYS, BODIES OF WATER:

AREA DRAINAGE IS CONVEYED VIA GRASS SURFACE AND CULVERTS TO THE WESTERN AND TO THE EASTERN ENDS OF THE PROJECT AREA. ON THE EASTERN SIDE A CULVERT CROSSES VT 78. THIS DRAINAGE FOLLOWS A WATER COURSE OUTSIDE OF THE STATE RIGHT-OF-WAY AND THROUGH GRASS AND WOODED AREAS FOR 2850 FEET EMPTYING INTO THE MISSISSOUI RIVER. ON THE WEST SIDE THE DRAINAGE IS TRANSFERRED VIA SWALES FOR 700 FEET TO ANOTHER DRAINAGE SWALE. THIS EVENTUALLY EMPTIES INTO THE MISSISSOUI ALSO, BUT WHERE HAS NOT BEEN DETERMINED.

ONSITE, NO WETLANDS ARE IDENTIFIED OR IMPACTED.

TOPOGRAPHY, EXISTING ROADS, BUILDINGS, UTILITIES:

THE GENERAL TOPOGRAPHY IN THE AREA OF THE SITE IS FLAT. THERE ARE NO DEFINED STREAMS OR WATERWAYS. THE ONLY BUILDING IN THE AREA, OUTSIDE OF R.O.W AND PROJECT LIMITS, HOUSES A TRUCK STOP AND GAS STATION.

EXISTING ROADS: I-89, VT 78, RAMPS A,B,C, AND D, AND FRONTAGE ROAD ARE BITUMINOUS SURFACED.

VEGETATION:

VEGETATION ALONG ALL OF THE ROADWAYS CONSISTS OF A VARIETY OF CREEPING RED FESCUE, TALL FESCUE, RED TOP, BIRDSFOOT TREEFOIL AND ANNUAL RYEGRASS.

SOILS:

NO DESCRIPTION OF THE SOIL TYPES EXPECTED TO BE ENCOUNTERED IN THE PROJECT AREA IS INCLUDED IN THE PROJECT PLAN.

THE MAJORITY OF THIS PROJECT IS WITHIN THE ROAD TYPICAL, MINIMAL SHOULDER DISTURBANCE IS ANTICIPATED.

SENSITIVE RESOURCE AREAS:

NO 'THREATENED & ENDANGERED SPECIES' HAVE BEEN IDENTIFIED WITHIN THE PROJECT LIMITS AND THERE WILL BE NO ADVERSE EFFECT TO HISTORIC OR ARCHAEOLOGICAL FEATURES. THERE ARE NO IDENTIFIED WETLANDS ADJOINING THE PROJECT.

PROXIMITY TO NATURAL OR MAN-MADE WATER FEATURES:

SOME EXCAVATION WILL OCCUR IN THE PROXIMITY OF SWALE UNDER VT 78.

GENERAL EROSION & SEDIMENT CONTROL GUIDELINES

GENERAL EROSION CONTROL PLANS ARE INTENDED AS A GUIDE FOR PREVENTING SOIL EROSION AND CONTROLLING SEDIMENT. THE WORK OUTLINED IN THIS NARRATIVE CONSISTS OF APPLYING MEASURES THROUGHOUT THE DURATION OF THE PROJECT TO CONTROL EROSION AND MINIMIZE THE SEDIMENTATION OF THE RECEIVING WATERS.

AN ALTERNATE TEMPORARY EROSION CONTROL PLAN WILL BE SUBMITTED BY THE CONTRACTOR FOR APPROVAL BY THE AGENCY OF TRANSPORTATION.

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 105.23 OF THE 2001 VERMONT STANDARD SPECIFICATIONS FOR CONSTRUCTION.

THE CONTRACTOR SHALL COORDINATE THE INSTALLATION, USE, AND REMOVAL OF EROSION AND SEDIMENT CONTROL MEASURES WITH CONSTRUCTION ACTIVITIES TO ASSURE ECONOMICAL, EFFECTIVE, AND CONTINUOUS EROSION AND SEDIMENT CONTROL. THE CONTRACTOR SHALL EMPLOY TEMPORARY STABILIZATION PRACTICES IN INCREMENTAL STAGES AS CONSTRUCTION ACTIVITIES PROCEED.

THE RESIDENT ENGINEER MAY DIRECT THE INSTALLATION OF CERTAIN EROSION CONTROL MEASURES IN ORDER TO AVOID POTENTIAL EROSION PROBLEMS, OR TO RESPOND TO STORM EVENTS OR DAMAGE BY CONSTRUCTION OPERATIONS.

GENERAL EROSION & SEDIMENT CONTROL GUIDELINES (CONTINUED)

THE CONTRACTOR SHALL INSTALL EROSION AND SEDIMENT CONTROL MEASURES AS SEQUENCED ON THE EROSION CONTROL SHEET, 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. THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES DAILY AND AFTER EACH RAINFALL EVENT. THE CONTRACTOR SHALL REPAIR ALL DAMAGED EROSION CONTROL MEASURES IMMEDIATELY. ALL EROSION CONTROL MEASURES THAT TRAP SEDIMENT, SUCH AS SEDIMENT BASINS, SHALL BE CLEANED OUT WHEN THEIR CAPACITY REACHES 50%.

THE RESIDENT ENGINEER'S APPROVAL SHALL BE OBTAINED PRIOR TO INSTALLING ANY EROSION CONTROL NOT SPECIFIED IN THE EROSION CONTROL PLANS. HOWEVER, IN EMERGENCY SITUATIONS WHERE THE RESIDENT ENGINEER IS NOT IMMEDIATELY AVAILABLE, THE CONTRACTOR SHOULD REPAIR OR INSTALL THE EROSION CONTROLS AS HE/SHE DEEMS 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.

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

IF USED, SILT FENCE SHALL BE PLACED AT THE TOES OF ALL FILL SLOPES AND SHALL BE CONSTRUCTED SO THAT FLOWS CANNOT BYPASS THE ENDS. AREAS DIRECTLY BELOW (DOWNHILL) OF THE SILT FENCES MUST BE UNDISTURBED AND VEGETATED.

AS CONSTRUCTION PROGRESSES, IMPLEMENTATION OF ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED AS DEEMED NECESSARY BY THE ON-SITE COORDINATOR AND AS APPROVED BY THE RESIDENT ENGINEER.

THE PROJECT COMPLETION DATE HAS BEEN SET FOR JUNE 2007. IF THIS PROJECT STARTS IN THE AUTUMN OF 2006, ALL EROSION CONTROL METHODS WILL BE MAINTAINED THROUGH THE WINTER PERIOD OF 2006/2007.

INFORMATION REQUIRED BY THE CONTRACTOR PRIOR TO CONSTRUCTION

MUCH OF THE INFORMATION SHOWN ON THE EROSION CONTROL PLANS AND DESCRIBED IN THIS NARRATIVE IS GENERAL IN NATURE. MORE SITE SPECIFIC INFORMATION IS NOT YET AVAILABLE AS A CONTRACTOR HAS NOT YET BEEN SELECTED. THE FOLLOWING LIST OUTLINES SOME OF THE SPECIFIC INFORMATION THAT IS NOT INCLUDED IN THE EROSION CONTROL PLANS AND DESCRIBED IN THIS NARRATIVE:

LOCATION OF WASTE, BORROW AND STAGING AREAS, MATERIAL STOCKPILES, REFUELING AND MAINTENANCE AREAS (ATTACH MAP IF NECESSARY)

DISCUSSION AND ADDITIONAL DETAILS NEEDED FOR PROTECTION AND STABILIZATION OF ABOVE

PROPOSED MODIFICATIONS AS/ IF REQUIRED TO THESE EROSION AND SEDIMENT CONTROL PLANS

PROPOSED DATES ASSOCIATED WITH JOB MILESTONES AS INDICATED ON THE SEQUENCE CONSISTENT WITH PROJECT CPM SCHEDULE

NARRATIVE (RE: TEMPORARY SEEDING AND MULCHING / STABILIZATION)

NAME, ADDRESS, PHONE NUMBER AND BASIC QUALIFICATIONS OF "ON-SITE COORDINATOR"

GUIDELINES

PERIMETER EROSION CONTROLS

ALL CONSTRUCTION IS WITHIN THE STATE RIGHT-OF-WAY AND NO DEMARCATION FENCING WILL BE USED.

ROADWAY EROSION CONTROLS

ALL EXPOSED SOILS WILL BE STABILIZED WITH STRAW MATTING OR SEEDED AND MULCHED.

EROSION CONTROL NARRATIVE

PROJECT NAME: SWANTON
PROJECT NUMBER: HES 036-1(12)

FILE NAME: 04b212/tb212ero.dgn	PLOT DATE: 14-SEP-2006
PROJECT LEADER: b.nyquist	DRAWN BY: j.gruchacz
DESIGNED BY: j.gruchacz	CHECKED BY: traffic
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