

EROSION PREVENTION AND SEDIMENT CONTROL PLAN NARRATIVE

PROJECT DESCRIPTION

THE PURPOSE OF THE PROJECT IS TO STABILIZE A SLIDE THAT FORMED ON A ROAD CUT SOUTH OF VT 15. WORK TO BE PERFORMED UNDER THE PROJECT INCLUDES MINOR RE- ALIGNMENT OF VT 15, INSTALLING A COUNTERBERM, WITH ASSOCIATED EARTHWORK, DRAINAGE, GUARDRAIL, PAVEMENT AND OTHER RELATED ROADWAY ITEMS. THERE ARE 3.06 ACRES OF DISTURBED AREA.

SITE INVENTORY AND ANALYSIS

OFF-SITE DRAINAGE CHARACTERISTICS AND VEGETATION

SOUTHEAST OF THE SLIDE AREA AND AT THE TOP OF THE SLOPE ARE RESIDENTIAL LAWNS THAT DRAIN TOWARD THE SLIDE. SOUTH AND SOUTHWEST AND UP SLOPE OF THE SLIDE, THE STORMWATER RUNOFF DRAINS TO A PAVED ROADSIDE DITCH ON GLENSIDE AVE. AND WEST AWAY FROM THE SLIDE. WEST AND EAST OF THE PROJECT ARE FORESTS. NORTH OF THE PROJECT THE STORMWATER RUNOFF DRAINS TO EITHER THE LAMOILLE RIVER OR TWO EXISTING ORNAMENTAL PONDS THAT DRAIN INTO THE LAMOILLE RIVER.

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

THERE ARE TWO ORNAMENTAL PONDS WITHIN THE PROJECT AREA. THERE ARE NO OTHER WATER BODIES WITHIN THE PROJECT. ALL STORMWATER RUNOFF EITHER INFILTRATES OR DRAINS TO THE LAMOILLE RIVER. THE LAMOILLE RIVER IS 190' NORTH OF THE MAJORITY OF THE PROJECT. HOWEVER THE INSTALLATION OF A NEW DRAINAGE CULVERT WILL INVOLVE EXCAVATION AT THE TOP OF THE BANK OF THE LAMOILLE RIVER.

TOPOGRAPHY, EXISTING ROADS, BUILDINGS AND UTILITIES

THE PROJECT IS THE STABILIZATION OF A SLOPE THAT IS SLIDING ONTO VT 15. VT 15 BISECTS THE PROJECT AND WILL BE REALIGNED. THERE IS A MOTEL NORTH OF THE PROJECT WHICH HAS TWO EXISTING DRIVES THAT ENTER THE PROJECT. SOUTH OF THE PROJECT AT THE TOP OF THE SLOPE IS A TOWN OWNED HIGHWAY, GLENSIDE AVE. AND A RESIDENTIAL NEIGHBORHOOD.

SOILS

THE CALEDONIA COUNTY SOIL SURVEY IDENTIFIES THE SOILS AS "URBAN LAND-ADAMS-NICHOLVILLE COMPLEX". THIS SOIL IS HIGHLY ERODIBLE. BECAUSE OF THE TYPE OF PROJECT, EXISTING EXPOSED SOILS, AND OTHER EXISTING FEATURES OF THE PROJECT AREA, SEDIMENT CONTROL SHOULD BE EMPHASIZED.

SENSITIVE RESOURCE AREAS

THE LAMOILLE RIVER IS THE ONLY SENSITIVE RESOURCE WHICH IS LOCATED 190' NORTH OF THE MAJORITY OF THE PROJECT.

HOWEVER THE INSTALLATION OF A NEW DRAINAGE CULVERT WILL INVOLVE EXCAVATION AT THE TOP OF BANK OF THE LAMOILLE RIVER.

INSTALLATION OF THE DRAINAGE CULVERT THAT OUTLETS INTO THE LAMOILLE RIVER: THIS WORK MUST BE DONE IN A WAY THAT DOES NOT RESULT IN A DISCHARGE OF SEDIMENT INTO THE LAMOILLE RIVER. THE PDF SHOULD BE PLACED AT THE TOP OF THE RIVER BANK. CONSTRUCTION EQUIPMENT SHOULD NOT TRAVEL PASSED THE PDF. WORK SHOULD TAKE PLACE DURING CLEAR WEATHER.

TEMPORARY EROSION PREVENTION AND SEDIMENT CONTROL PLAN

PROJECT DEMARCATION FENCE LABELED AS PDF ON THE PLANS DELINEATES THE LIMITS THE CONTRACTOR CAN ACCESS WITH CONSTRUCTION EQUIPMENT. THIS LIMITS THE AREA THAT CAN BE DISTURBED AND EXPOSED.

THE PROJECT WILL INVOLVE THE DEWATERING OF THE TWO ORNAMENTAL PONDS AND BACK FILLING WITH MATERIAL. THIS SHALL BE DONE IN A WAY THAT DOES NOT RESULT IN A DISCHARGE OF SEDIMENT INTO THE LAMOILLE RIVER. THE CONTRACTOR'S EROSION AND SEDIMENT CONTROL PLAN WILL SPECIFY HOW THIS WILL BE ACCOMPLISHED. PAYMENT FOR THIS WORK SHALL NOT BE PAID FOR DIRECTLY BUT WILL BE INCIDENTAL TO ALL EROSION CONTROL ITEMS.

SILT FENCE DETAIL SHEET 24 WILL BE USED AS A GUIDE FOR INSTALLATION OF SILT FENCE AT THE LOCATIONS AS SHOWN ON THE PLAN SHEETS OR AT OTHER LOCATIONS THAT HAVE BEEN IDENTIFIED IN THE CONTRACTOR'S EROSION PREVENTION AND SEDIMENT CONTROL PLAN/ ON SITE COORDINATOR OR RESIDENT ENGINEER.

DROP INLET PROTECTION DETAIL SHEET 25 OR COMPARABLE MEASURES WILL BE USED AT ALL EXISTING AND NEW DI'S, CB'S, OR MH'S UNTIL THE SOILS SURROUNDING THEM HAVE BEEN STABILIZED. THE PURPOSE OF DRAINAGE INLET PROTECTION IS TO PREVENT SEDIMENT FROM ENTERING THE CLOSED DRAINAGE SYSTEMS.

STABILIZED CONSTRUCTION ENTRANCE DETAIL SHEET 26 OR A COMPARABLE MEASURE WILL BE USED AT ALL ENTRANCES WHERE TRUCKS AND OTHER CONSTRUCTION EQUIPMENT EXIT AREAS OF EXPOSED SOILS ONTO PUBLIC ROADWAYS. THE PURPOSE IS TO REDUCE THE TRACKING OF SEDIMENT ONTO PUBLIC ROADWAYS.

PERMANENT EROSION CONTROL MEASURES

GRASS OR OTHER SUITABLE GROUND COVER WILL BE ESTABLISHED OUTSIDE OF THE ROADWAY LIMITS WHERE STONE FILL HAS NOT BEEN SPECIFIED. ALL OTHER SLOPES SHALL BE SEEDED AND MULCHED WITHIN 48 HOURS UPON ACHIEVING FINAL GRADE. ALL SLOPES SHALL RECEIVE EROSION CONTROL MATTING USING DITCH & SLOPE PROTECTION DETAIL SHEET 27 AS A GUIDE.

FOR ADDITIONAL INFORMATION SEE EROSION PREVENTION AND SEDIMENT CONTROL GENERAL NOTES.

FINAL CONDITIONS SITE PLAN

FINAL CONTOURS ARE TO BE TAKEN FROM CROSS SECTIONS.

SHEET NAME:	EROSION CONTROL NARRATIVE
PROJECT NAME:	HARDWICK
PROJECT NUMBER:	STP ST 030-3(4)
FILE NAME:	PW/04e060/design/d04e060frm PLOT DATE: 18-OCT-2005
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