# 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 1.22 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 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

WILLIAMS RIVER IS LOCATED ON THE WEST SIDE OF VT 103 IN THE PROJECT AREA.

### 1.2.3 TOPOGRAPHY, EXISTING ROADS, BUILDINGS, UTILITIES

VERMONT 103 IS THE ONLY ROAD WITHIN THE DESIGNATED LEDGE REMOVAL SITE. THE SITE IS LOCATED ON THE EASTERN SIDE OF VERMONT 103 AND THE TOPOGRAPHY OF THE SITE IS OF LEDGE (SOLID ROCK). THE GREEN MOUNTAIN RAILROAD IS LOCATED ON THE WESTERN SIDE OF VERMONT 103. BETWEEN VT 103 AND THE GREEN MOUNTAIN RAILROAD IS THE COTA & COTA PROPANE FILLING STATION.

### 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 CLEARING AND GRUBBING OF ALL VEGETATION LOCATED ON THE FACE OF THE LEDGE WITHIN THE PROJECT LIMITS AND ALSO CLEARING AND GRUBBING THE TOP OF THE LEDGE FROM THE FACE OF THE CUT UP TO 20 FEET BACK TOWARDS EXISTING ROW. IN ADDITION DISTURBANCE IS EXPECTED DURING THE REMOVAL OF WASTE MATERIAL WITHIN THE GRASS LINED DITCH. ALL DISTURBED VEGETATION, EXCLUDING THE LEDGE FACE, WILL BE REESTABLISHED WITH STANDARD SEED AND 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 COUNTY OF WINDSOR, VERMONT. SOILS ON THE PROJECT SITE ARE TUNBRIDGE - LYMAN COMPLEX 35 - 60 PERCENT SLOPES, VERY ROCKY, K=0.24/0.28.

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 PAY ITEM 652.10. ANY MODIFICATIONS TO THE PROJECT THAT WOULD POTENTIALLY INCREASE THE RISK TO THE ENVIRONMENT SHALL BE RE-EVALUATED FOR RISK. SHOULD THE RISK CHANGE THE CONTRACTOR WILL BE RESPONSIBLE FOR ADDITIONAL PERMITTING WITH VT ANR 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 POLLUTION 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

STONE CHECK DAMS SHALL BE USED IN THE DITCH LINE WITHIN THE PROJECT AREA AS NEEDED.

### 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 3H:1V. THESE SLOPES SHALL BE STABILIZED WITHIN 48 HOURS OF REACHING INTERMITTENT PHASES OF CONSTRUCTION.

### 1.4.9 WINTER STABILIZATION

NOT APPLICABLE

### 1.4.10 STABILIZE SOIL AT FINAL GRADE

SEED AND MULCH
EROSION MATTING

SEEDING, MULCHING AND BIODEGRADABLE EROSION CONTROL MATTING OR AN EQUIVALENT SHALL BE USED TO STABILIZE ALL SLOPES STEEPER THAN 3H:1V. 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 THAT RESULTS IN A DISCHARGE FROM THE SITE.

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| PROJECT NAME: CHESTER | |
| PROJECT NUMBER: NH 025-K(41) | |
| FILE NAME: d08b036frm.dgn | PLOT DATE: 23-NOV-2009 |
| PROJECT LEADER: K. ROBIE | DRAWN BY: P. PELOQUIN |
| DESIGNED BY: P. PELOQUIN | CHECKED BY: S. MENARD |
| EROSION CONTROL NARRATIVE | SHEET 15 OF 16 |