

1 EPSC NARRATIVE

1 PROJECT DESCRIPTION

THE PROPOSED PROJECT AREA IS LOCATED APPROXIMATELY 750 FT SOUTH OF VT ROUTE 140 BETWEEN WALDO LANE AND THE WALLINGFORD TOWN PARK IN THE TOWN OF WALLINGFORD, RUTLAND COUNTY, VERMONT. THIS PROJECT WILL INVOLVE THE INSTALLATION OF A REHABILITATED HISTORIC PONY TRUSS BRIDGE FOR USE AS A NEW PEDESTRIAN CROSSING OVER THE OTHER CREEK CONNECTING WALDO LANE WITH THE TOWN PARK. THE GENERAL WORK TO BE PERFORMED UNDER THIS PROJECT WILL INCLUDE THE REHABILITATION OF THE HISTORIC TRUSS BRIDGE OFF SITE, CONSTRUCTION OF NEW CONCRETE SUBSTRUCTURES AND APPROACHES ON SITE, THE PLACEMENT OF THE HISTORIC TRUSS BRIDGE ON THE NEW SUBSTRUCTURE AND THE CONSTRUCTION OF A NEW SHARED USE PATH CONNECTING THE HISTORIC TRUSS BRIDGE TO WALDO LANE AND THE TOWN PARK. IT IS ANTICIPATED THAT THIS PROJECT WILL LAST ONE CONSTRUCTION SEASON.

TOTAL AREA OF DISTURBANCE IS APPROXIMATELY 0.3 ACRES INCLUDING THE IMPACTS ASSOCIATED WITH THE VEHICLE ACCESS ROUTE NECESSARY TO CONSTRUCT THIS BRIDGE.

1.2 SITE INVENTORY

1.2.1 OFF SITE DRAINAGE CHARACTERISTICS (UP AND DOWN GRADIENT)

WEST OF THE PROJECT AREA IS A STEEP, WOODED HILL THAT SLOPES DOWN TOWARD THE OTHER CREEK. ON THE EAST SIDE OF THE PROJECT AREA IS A MODERATELY FLAT GRASSSED AREA THAT IS USED AS RECREATION FIELDS BY THE TOWN OF WALLINGFORD. ALL STORMWATER RUNOFF IN THE VICINITY OF THE PROJECT AREA FLOWS OVERLAND INTO THE OTHER CREEK. 1.2.2 DRAINAGE, WATERWAYS, BODIES OF WATER, AND PROXIMITY TO NATURAL OR MAN-MADE WATER FEATURES

THE OTHER CREEK IS THE ONLY NATURAL WATER SOURCE LOCATED WITHIN THE VICINITY OF THE PROJECT SITE. THERE ARE NO OTHER DRAINAGE OR WATER FEATURES LOCATED WITHIN THE VICINITY OF THE PROJECT AREA.

1.2.3 TOPOGRAPHY, EXISTING ROADS, BUILDINGS, UTILITIES

THE EXISTING TOPOGRAPHY WITHIN THE PROJECT AREA PRIMARILY CONSISTS OF A MIXED VEGETATED LANDSCAPE OF A STEEPLY SLOPED DENSELY WOODED AREA ON THE WEST AND FAIRLY LEVEL SLOPED RECREATIONAL FIELDS ON THE EAST WHICH ARE SEPARATED BY THE OTHER CREEK.

1.2.4 VEGETATION

THE VEGETATION IN THE PROJECT AREA PRIMARILY CONSISTS OF A DENSELY FORESTED AREA TO THE WEST AND A RESIDENTIAL AREA WITH GRASSSED RECREATIONAL FIELDS TO THE EAST. THERE IS ALSO A GRAVEL ROAD KNOWN AS WALDO LANE LOCATED ON THE WESTERN SIDE OF THE PROJECT AREA. THE IMPACTS TO EXISTING VEGETATION WILL BE LIMITED TO THAT WHICH IS DIRECTLY AFFECTED BY THE PLACEMENT OF THE HISTORIC TRUSS BRIDGE AND SHARED USE PATH CONSTRUCTION.

1.2.5 SOILS

THE U.S. DEPARTMENT OF AGRICULTURE'S NATIONAL RESOURCE CONSERVATION SERVICE (NRCS) HAS IDENTIFIED AND MAPPED TWO SOIL TYPES WITHIN THE PROJECT AREA, ONE ON EACH SIDE OF THE OTHER CREEK. THE SOIL TYPE LOCATED TO THE WEST OF THE PROJECT AREA HAS NOT BEEN RATED FOR EROSION SUSCEPTIBILITY BUT THE SOIL TYPE LOCATED ON THE EASTERN SIDE OF THE PROJECT HAS BEEN CLASSIFIED AS POTENTIALLY HIGHLY ERODIBLE. THE FOLLOWING LIST DEPICTS THE ERODIBILITY PROPERTIES FOR THE TWO TYPES OF SOILS LOCATED WITHIN THE PROJECT AREA.

MAP UNIT TYPE*	DESCRIPTION	SLOPES (%)	ERODIBILITY	ERODIBILITY FACTOR (K)
13B	HINKLEY FINE GRAVELLY LOAMY FINE SAND	0-8	POTENTIALLY HIGHLY ERODIBLE	0.17
96	UDIPSAMMENTS	NEARLY LEVEL	NOT RATED	0.10

\*MAP UNIT TYPE IS FROM THE NRCS SOIL SURVEY MAP FOR RUTLAND COUNTY, VERMONT. SEE SHEET 10 FOR LOCATIONS OF MAPPED SOILS.

IN ADDITION, MAP UNIT TYPE 13B HAS BEEN CLASSIFIED BY THE NRCS AS PRIME FARMLAND OF STATEWIDE IMPORTANCE.

1.2.6 SENSITIVE RESOURCE AREAS

THERE ARE NO KNOWN OCCURRENCES OF CRITICAL HABITATS, THREATENED AND ENDANGERED SPECIES, OR HISTORICAL OR ARCHEOLOGICAL SITES LOCATED WITHIN THE LIMITS OF THE PROJECT AREA. HOWEVER, THE MAJORITY OF THE PROJECT AREA LIES WITHIN THE HINKLEY GRAVELLY LOAMY FINE SAND SOIL TYPE THAT IS CLASSIFIED AS FARMLAND OF STATEWIDE IMPORTANCE BY THE NRCS. IN ADDITION, THERE ARE NO KNOWN WETLANDS OR IMPAIRED WATERWAYS LOCATED WITHIN THE PROJECT AREA, BUT THE OTHER CREEK RECEIVING WATERS ADJACENT TO THE PROJECT AREA IS CONSIDERED A SENSITIVE RESOURCE. THE CONTRACTOR SHALL EMPLOY EROSION PREVENTION AND SEDIMENT CONTROL MEASURES THROUGHOUT THE DURATION OF THE PROJECT TO PROTECT THE WATER QUALITY OF THE OTHER CREEK AS OUTLINED IN THE EPSC PLANS FOR THIS PROJECT'S LOCATION. THE CONTRACTOR SHOULD NOTE THAT THERE IS A 50' RIPARIAN BUFFER ZONE ASSOCIATED WITH THE OTHER CREEK. THIS RIPARIAN BUFFER IS ILLUSTRATED ON THE PROJECT PLANS.

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

OTHER POLLUTION PREVENTION CONTROLS. INCLUDE STABILIZATION AND STRUCTURAL PRACTICES, STORM WATER CONTROLS AND PROJECT MINIMIZING SEDIMENT TRANSPORT TO THE RECEIVING WATERS. THE MEASURES IN THIS NARRATIVE CONSISTS OF APPLYING MEASURES THROUGHOUT THE LIFE OF THE CONTRACTOR SHALL INSTALL TEMPORARY CHECK DAMS TO HELP SLOW DOWN AND CONTROL CHANNELIZED RUNOFF PER THE VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION'S LOW RISK SITE HANDBOOK FOR EROSION PREVENTION AND SEDIMENT CONTROL AS DIRECTED BY THE ON-SITE PLAN COORDINATOR.

1.4.5 SLOW DOWN CHANNELIZED RUNOFF

IT IS NOT ANTICIPATED THAT THE CONTRACTOR WILL ENCOUNTER CHANNELIZED RUNOFF DURING THE CONSTRUCTION OF THIS PROJECT. HOWEVER, IF SITE CONDITIONS CHANGE, THE CONTRACTOR SHALL INSTALL TEMPORARY CHECK DAMS TO HELP SLOW DOWN AND CONTROL CHANNELIZED RUNOFF PER THE VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION'S LOW RISK SITE HANDBOOK FOR EROSION PREVENTION AND SEDIMENT CONTROL AS DIRECTED BY THE ON-SITE PLAN COORDINATOR.

1.4.6 SLOW DOWN CHANNELIZED RUNOFF

AND SEDIMENT CONTROL AS DIRECTED BY THE ON-SITE PLAN COORDINATOR.

1.4.7 CONSTRUCT PERMANENT CONTROLS

THE CONSTRUCTION OF THIS PROJECT WILL NOT REQUIRE THE USE OF PERMANENT CONTROLS UPON COMPLETION OF THE PROJECT. ALL EXPOSED SLOPES SHALL BE STABILIZED PRIOR TO THE COMPLETION OF THIS PROJECT.

1.4.8 STABILIZE EXPOSED SOILS

THE CONTRACTOR SHALL GRADE AND TRIM ALL SLOPES AS THE EXCAVATION PROGRESSES AND STABILIZE ALL SLOPES AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ON-SITE PLAN COORDINATOR. 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. THE CONTRACTOR SHALL HAVE A HYDRO SEEDER AND/OR MULCHING MACHINE AVAILABLE ON THE PROJECT SITE OR AVAILABLE AT ONE WEEK'S NOTICE (MAXIMUM) UNTIL PERMANENT SEEDING IS COMPLETED.

1.4.9 WINTER STABILIZATION

IF CONSTRUCTION ACTIVITIES INVOLVING EARTH DISTURBANCE CONTINUE PAST OCTOBER 15, OR BEGIN BEFORE APRIL 15, EPSC WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LOW RISK HANDBOOK FOR WINTER CONSTRUCTION.

1.4.10 STABILIZE SOIL AT FINAL GRADE

STONE FILL SHALL BE USED TO STABILIZE ALL SLOPES STEEPER THAN 1-3 AS SHOWN IN MULCH. THESE SLOPES SHALL BE STABILIZED WITHIN 48 HOURS OF REACHING FINAL GRADE.

1.4.11 DE-WATERING ACTIVITIES

NO DE-WATERING ACTIVITIES ARE ANTICIPATED AS PART OF THIS PROJECT.

1.4.12 INSPECT YOUR SITE

INSPECTION OF EROSION PREVENTION AND SEDIMENT CONTROL MEASURES USED WITHIN THE PROJECT SITE SHALL BE INSPECTED ON A DAILY BASIS AND AFTER EVERY STORM GREAT ENOUGH TO CAUSE WATER TO LEAVE THE CONSTRUCTION SITE OR AS DIRECTED BY THE ON-SITE PLAN COORDINATOR. REPAIRS SHALL BE MADE AS NEEDED WHEN DAMAGE TO MEASURES ARE DISCOVERED AND SEDIMENT SHALL BE REMOVED WHEN THE STORAGE CAPACITY OF A SEDIMENT CONTROL MEASURE APPROACHES ONE HALF OF ITS INTENDED CAPACITY OR AS DIRECTED BY THE ON-SITE PLAN COORDINATOR.

1.4.1 MARK SITE BOUNDARIES

PROJECT DEMARCATION FENCING AND BARRIER FENCING WILL BE USED TO DELINEATE THE LIMITS IN WHICH THE CONTRACTOR CAN ACCESS WITH CONSTRUCTION EQUIPMENT AND PERSONNEL. THESE MEASURES WILL LIMIT THE AREA THAT CAN BE DISTURBED AND EXPOSED TO EROSION. THE CONTRACTOR SHALL INSTALL THE PERIMETER CONTROLS PRIOR TO STARTING ANY WORK WITHIN THE PROJECT AREA. THE CONTRACTOR SHALL NOT ALLOW ANY CONSTRUCTION EQUIPMENT TO OPERATE OR ACCESS ON THE DOWN SLOPE SIDE OF OF A FLOWING STREAM OR DISTURBANCE OF THE EXISTING STREAM BANKS BY CONSTRUCTION EQUIPMENT EXCEPT AS AUTHORIZED BY THE ON-SITE PLAN COORDINATOR.

1.4.2 LIMIT DISTURBANCE AREA

EMPLOY TEMPORARY STABILIZATION PRACTICES IN INCREMENTAL STAGES (PHASING) AS CONSTRUCTION ACTIVITIES PROCEED. ADDITIONAL MEASURES MAY BE NEEDED DUE TO THE PHASING OF THE PROJECT AND AS DIRECTED BY THE ON-SITE PLAN COORDINATOR. IN GENERAL, PRESERVE EXISTING VEGETATION, TREES AND SHRUBS WHEN POSSIBLE, AS DIRECTED BY THE ON-SITE PLAN COORDINATOR.

1.4.3 STABILIZE CONSTRUCTION EXIT

THE CONTRACTOR SHALL CONSTRUCT A TEMPORARY STABILIZED CONSTRUCTION ENTRANCE ALONG WITH AN ACCESS PATH AS SHOWN IN THE PLANS. THE CONTRACTOR SHALL NOT ALLOW CONSTRUCTION VEHICLES TO TRACK SEDIMENT OFFSITE OF THE PROJECT LIMITS. THE CONSTRUCTION ENTRANCE SHALL BE REMOVED AND THE AREA RESTORED IMMEDIATELY FOLLOWING COMPLETION OF THE PROJECT.

1.4.4 INSTALL WOVEN WIRE REINFORCED SILT FENCE

WOVEN WIRE REINFORCED SILT FENCE SHALL BE INSTALLED PRIOR TO ANY UP SLOPE WORK AS SHOWN ON THE PLANS AS NECESSARY OR AS DIRECTED BY THE ON-SITE COORDINATOR.

EPSC NARRATIVE



PROJECT NAME: WALLINGFORD STP ST WALK(14)  
 PROJECT NUMBER: \$FILES\$  
 PROJECT MANAGER: SUSAN SCRIBNER  
 DESIGNED BY: L. HARDEN  
 CHECKED BY: P. HALSTEAD  
 DRAWN BY: W. WEATHERBY  
 PLAT DATE: 1/22/2009

BRIDGE DESIGN SUPERVISOR: P. HALSTEAD  
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