

HYDRIC SOIL

****From Cabot-Danville FEGC F 028-3(26) C/1**

- xx. DESCRIPTION. This work shall consist of the procurement of hydric soils from the highway project and subsequent testing, transport, amendment, and placement of hydric soils on the mitigation site.
- xx. MATERIALS. Hydric soils shall be obtained from the wetland impact areas along Segment One of the highway project. Wetland impact areas are identified on the plan sheets of the Corps of Engineers Permit #NAE-2006-3923 included in the Contract Documents. The VTrans Field Naturalist will stake locations of wetland impact areas along the highway segment under construction. The Contractor shall then coordinate with the Field Naturalist to review wetland impact areas for potential presence of invasive plant species. The Field Naturalist will identify areas to be rejected for use of hydric soils based upon observed populations of invasive species.

Hydric soils at each wetland impact area shall be tested for pH and results recorded.

- xx. CONSTRUCTION REQUIREMENTS.
 - (a) Hydric soil shall be used as the surface layer (topsoil alternate) of the mitigation site for the area between elevations 662.5' and 660.1', to the extent possible given availability of useable hydric soil. The mitigation design will create 3.6 acres of land between those elevations. The available hydric soil from the highway project is expected to be 3.0 acres (3.32 acres of impacted wetland minus 0.3 acre allowance for potential rejection due to the presence of invasive species).
 - (b) Hydric topsoil shall be stripped from approved wetland impact areas. The depth of stripping is assumed to be six (6) inches, unless otherwise specified by the Field Naturalist. The total quantity of hydric soil to be stripped is estimated at 2,420 CY.
 - (c) Stripped hydric soil shall be transported to the East Montpelier wetland mitigation site, to be temporarily stockpiled within established work areas.
 - (d) Hydric soil shall be applied to the mitigation site between the specified elevations, beginning at the southern extreme of the project, and continuing northward. The remaining 0.6 acre (approximate) of land between the specified elevations shall have a surface layer topsoil alternate as specified in the Contract Documents.
 - (e) The area to receive the hydric soil topsoil alternate is to be over-excavated by six (6) inches, to allow for the addition of a six (6) inch layer of hydric soil to achieve finish grades.
 - (f) Stockpiled soils shall be tested for pH immediately prior to placement in the mitigation area. The pH shall be adjusted with lime to the average level of pH from the wetland impact areas.

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The target pH level shall be determined by the Field Naturalist; level is expected to be between 6.0 to 7.0.

- (g) No fertilizer shall be used with hydric soils.
 - (h) Hydric soils placed in the mitigation area shall be lightly compacted following placement.
 - (i) The surface of placed hydric soil shall be raked lightly to provide grooves for seed lodgement prior to seeding.
 - (j) If stockpiling of hydric soil is required, the stockpile shall be covered with landscape fabric meeting the requirements of LANDSCAPE FABRIC of Section 900 whenever exposure to air will exceed four (4) days.
 - (k) Stockpiled hydric soil shall be kept continually moist using sprinklers, except during periods of frozen soils.
 - (l) The stockpile shall be seeded with winter rye (*Lolium multiflorum*) and mulched with weed-free straw in preparation for winter shut-down.
- xx. METHOD OF MEASUREMENT. The quantity of Special Provision (Hydric Soil) to be measured for payment will be the number of cubic meters (cubic yards) of soil placed in the complete and accepted work.
- xx. BASIS OF PAYMENT. The accepted quantity of Special Provision (Hydric Soil) will be paid for at the Contract unit price per cubic meter (cubic yard). Payment will be full compensation for identifying, procuring, testing, transporting, storing, amending with lime, placing, compacting, raking, and stockpiling the hydric soil, and for furnishing all labor, tools, equipment, and incidentals necessary to complete the work.

Payment will be made under:

<u>Pay Item</u>	<u>Pay Unit</u>
900.608 Special Provision (Hydric Soil)	Cubic Meter (Cubic Yard)