

Environmental, Stormwater Management, and Tree Impacts

Project: Telegraph Road at Hayfield Road in Fairfax County
State Project: 0611-029-467, P101, R201, C501
UPC: 116086

Environmental Review

The Telegraph Road at Hayfield Road Improvement Project is financed with state and local funding. There is no federal funding associated with the project, and therefore the project is not subject to the National Environmental Policy Act (NEPA). However, in accordance with Virginia Code § 10.1 – 1188, the project is subject to administration of the State Environmental Review Process (SERP). Once a design alternative is selected, the Virginia Department of Transportation (VDOT) will reassess its environmental review. All required environmental clearances, regulatory approvals and permits will be obtained prior to commencement of construction. Strict compliance with all environmental conditions and commitments resulting from any regulatory approvals, and implementation of VDOT's specifications and standard best management practices will protect the environment during construction.

Potential Stormwater Management Approach

As part of this project, the project team will study potential impacts to both water quality and quantity.

In terms of water quality, increased pollutant loading from this project will be addressed through offsite compliance with the purchase of nutrient credits. Once a design alternative is selected, the disturbed and impervious areas will be determined, and the required nutrient credits will be purchased.

In order to address water quantity for the project, each outfall must be analyzed to meet certain criteria. The project is anticipated to have several outfall/limit of analysis points, which consist of multiple storm sewer pipes that cross Telegraph Road, as well as the newly constructed Hayfield Road Pipe Conveyance System. It is noted that prior to the Hayfield Road Pipe Conveyance System Project, the Hayfield Farm community had experienced residential structure flooding over a long period of time with increasing frequency. The Hayfield Road Pipe Conveyance System Project was completed in late 2020.

Once a design alternative is selected for this project, each outfall will be evaluated to meet VDOT requirements and standards.

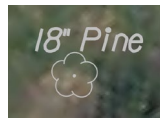
Potential Tree Impacts

The potential tree impacts for each alternative were estimated by the project team and a comparative summary is provided below.

Design Alternative	Individual Trees Impacted (EA)	Area of Mixed Trees Impacted (AC.)
No Build	0	0
Baseline	5	0.05
Widening to East	35	0.21
Widening to West	35	0.46
Pedestrian Concept #1	6	0.01
Pedestrian Concept #2	17	0.16

Please note that there are several large areas throughout the project limits that are identified as medium to large mixed trees, rather than individual trees. For these areas, the project team quantified by acreage as shown in the table above. Below is a legend for these different tree areas.

Individual Tree:



Area of Mixed Trees:



In summary, all design alternatives would have impacts to the existing trees within the project limits. Even the pedestrian only improvements will require tree removal, not only at the intersection, but also along Telegraph Road. Lastly, please note that the tree impacts identified in the table above do not include any additional tree impacts associated with potential utility relocations/easements.