



January 25, 2017

Ms. Darlene Forst
Shoreland Program
NH Department of Environmental Services
PO Box 95
Concord, NH 03302

RE: Northern Pass Transmission LLC. – Request to Revise NHDES Shoreland Permit Application 2015-02850 for the Connecticut River in Pittsburg

Dear Ms. Forst:

On behalf of Northern Pass Transmission LLC, Normandeau Associates, Inc. is submitting a request to modify the impact area associated with NHDES Shoreland Permit Application 2015-02850 for the Connecticut River in Pittsburg. Transition Station #1 on the west side of the Connecticut River on Old Canaan Road overlaps slightly with the protected shoreland. During review by the Alteration of Terrain (AOT) program, some changes were made to the stormwater control system of Transition Station #1 to address agency comments. The proposed swale that runs parallel to the Old Canaan Road at the front of the property was extended and serves as a treatment swale. In order to remove the required amount of pollutants, the dimensions of this swale were extended to increase the residence time of water in the swale. The swale extension has also required an increase in clearing along the front of the property.

As a result of this design modification, there will be a slight increase in the temporary and permanent impacts within the protected shoreland, a small increase in clearing area, and a decrease in the impervious area due to the removal of riprap (impervious lining) from other swales in the property. The attached plan sheet includes the new impact quantities associated with this location. The design changes are most easily viewed on Plan C-104 and Detail Drawing C-506 in the AOT plan set.

The new total impact areas associated with this design modification (and change from original application) are summarized in the table below.

Pittsburg Connecticut River Summary	0'-50' Waterfront Buffer	50'-150' Natural Woodland Buffer	150'- 250' Shoreland Buffer	Total Impacts at Shoreland	Change from Original Application
Temporary Impacts	0 sq. ft.	155 sq. ft.	6,690 sq. ft.	6,845 sq. ft.	128 sq. ft.
Permanent Impacts	0 sq. ft.	1,745 sq. ft.	12,450 sq. ft.	14,195 sq. ft.	341 sq. ft.
Pre-Construction Impervious Surface Area	2,268 sq. ft.	14,157 sq. ft.	15,521 sq. ft.	31,945 sq. ft.	0 sq. ft.
Post-Construction Impervious Surface Area	2,268 sq. ft.	14,716 sq. ft.	18,805 sq. ft.	35,789 sq. ft.	(4,180) sq. ft.

We appreciate your review of this requested change to the Northern Pass Shoreland Application for the Connecticut River in Pittsburg. Please feel free to contact me if you have any questions or require additional information.

Sincerely,



Lee Carbonneau

As Agent for Northern pass Transmission, LLC.

Senior Principal Scientist

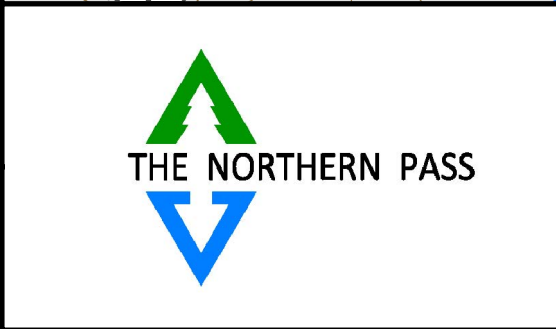
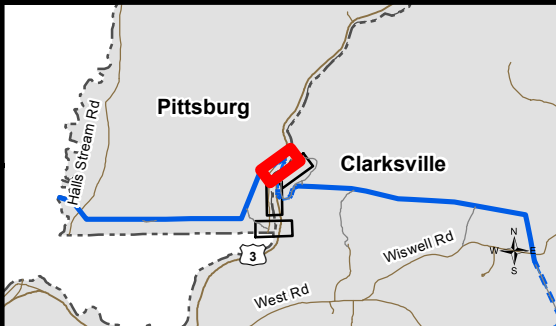
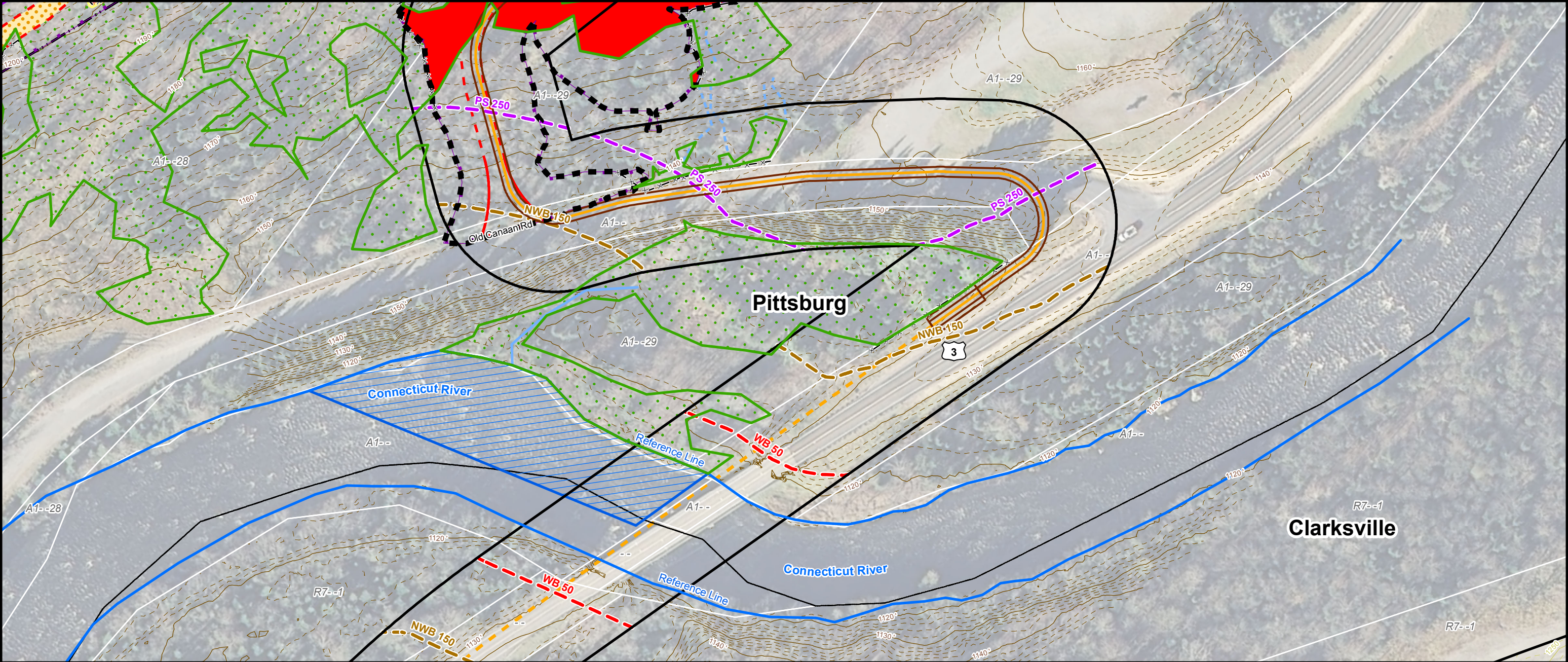
Normandeau Associates, Inc.

Attach.

Cc. Clark Freise, Assistant Commissioner, NHDES (w/o enclosures)
Collis Adams, NHDES (w/o enclosures)
Craig Rennie, NHDES
Ridge Mauck, NHDES
Gregg Comstock, NHDES



Pamela G. Monroe, SEC Administrator
Kevin F. McCune, Eversource (w/o enclosures)



Existing Conditions

Existing Structure

Existing Structure to be Removed

Existing Transmission Line

Existing Transmission Line to be Removed

Delineated Wetlands

Tax Parcels

Existing Right of Way

10' Index Contour

2' Interval Contour

USGS 10' Contour

USGS 2' Contour

Stream Centerlines

Perennial

Intermittent

Ephemeral

Delineated Waterbodies

Perennial

Intermittent

Ephemeral

Local Setbacks

Proposed Conditions

Proposed Structure - No Shoreland Impact

Proposed Structure - Shoreland Impact

Proposed Transmission Line

Proposed New Right of Way

Off ROW and UG Reporting Extents

Temporary Construction Pad

Station LODs

Existing Access Route

New Access Route

Temporary Wetlands Matting (16'x 16')

Erosion and Sedimentation Control BMPs

Erosion and Sedimentation Control BMPs (Steep Slope)

Temporary Limit of Disturbance - Construction Pad

Limits of Permanent Vegetation Clearing

UG Splice Vaults

Trenched UG

Trenchless UG

NHDES Shoreland Permit Application Plans					
SWQPA Areas	Extent of Clearing (sq. ft.)	Construction Impacts (sq. ft.)		Impervious Surface (sq. ft.)	
	Clearing in Upland	Temporary	Permanent	Pre-Construction	Post - Construction
Waterfront Buffer (50')	0	0	0	2,268	2,268
Natural Woodland Buffer (150')	2,082	155	1,745	13,489	14,048
Protected Shoreland (250')	12,674	4,078	12,450	9,994	13,278
Total	14,756	4,234	14,195	25,750	29,593
May not sum to total due to rounding					
THE NORTHERN PASS PROPOSED ROUTE			Connecticut River, Pittsburg		
Date: 1/23/2017	DRAWN: LD				Page 01

Source: NHDOT 2010 and 2011 Aerials; New Hampshire GRANIT GIS Data; Coler & Colantonio; Normandeau; Burns & McDonnell.