




































## Existing Conditions

-  Existing Structure
-  Existing Structure to be Removed
-  Existing Right of Way
-  Existing Transmission Line
-  Existing Transmission Line to be Removed
-  100-year Floodzone
-  Wetlands
-  USACE Reviewed Wetlands





-  Vernal Pool
  -  100' Buffer of Vernal Pools
  -  Stream Buffer (varies : 25', 50', or 100')
- Delineated Waterbodies**
-  Perennial
  -  Intermittent
  -  Ephemeral
- Stream Centerlines**
-  Perennial
  -  Intermittent
  -  Ephemeral

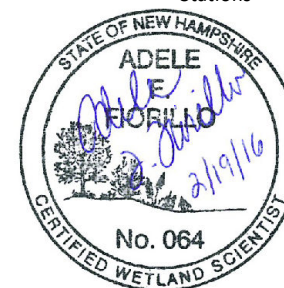
- 
-  LiDAR 10' Contour
  -  LiDAR 2' Contour
  -  USGS 10' Contour
  -  USGS 2' Contour
  - Proposed Conditions**
  -  Proposed Structure - No Permanent Impact
  -  Proposed Structure - Permanent Impact
  -  Proposed New ROW
  -  Proposed Transmission Distribution Line
  -  Trenched UG
  -  Trenchless UG

-  New Access Route
-  Existing Access Route
-  Temporary Construction Pad
-  Temporary Area of Disturbance - Construction Pad
-  Erosion and Sedimentation Control BMPs
-  Erosion and Sedimentation Control BMPs (Steep Slope)
-  Temporary Wetlands Matting
-  Permanent Impacts - Stations

1 inch equals 100 feet  
when printed at 11" x 17"

- Vegetation Clearing Areas
  - Span Stream with No Permanent Impacts
- RTE Bars**
- Animal
  - Vegetation
  - Both

-  UG Disturbance Area
-  UG Splice Vaults
-  Lay Down Yard
-  Limit of Disturbance - Stations



**NHDES Wetlands & US Army Corps of Engineers  
Section 404/10 Permit Application Plans**

## THE NORTHERN PASS PROPOSED ROUTE

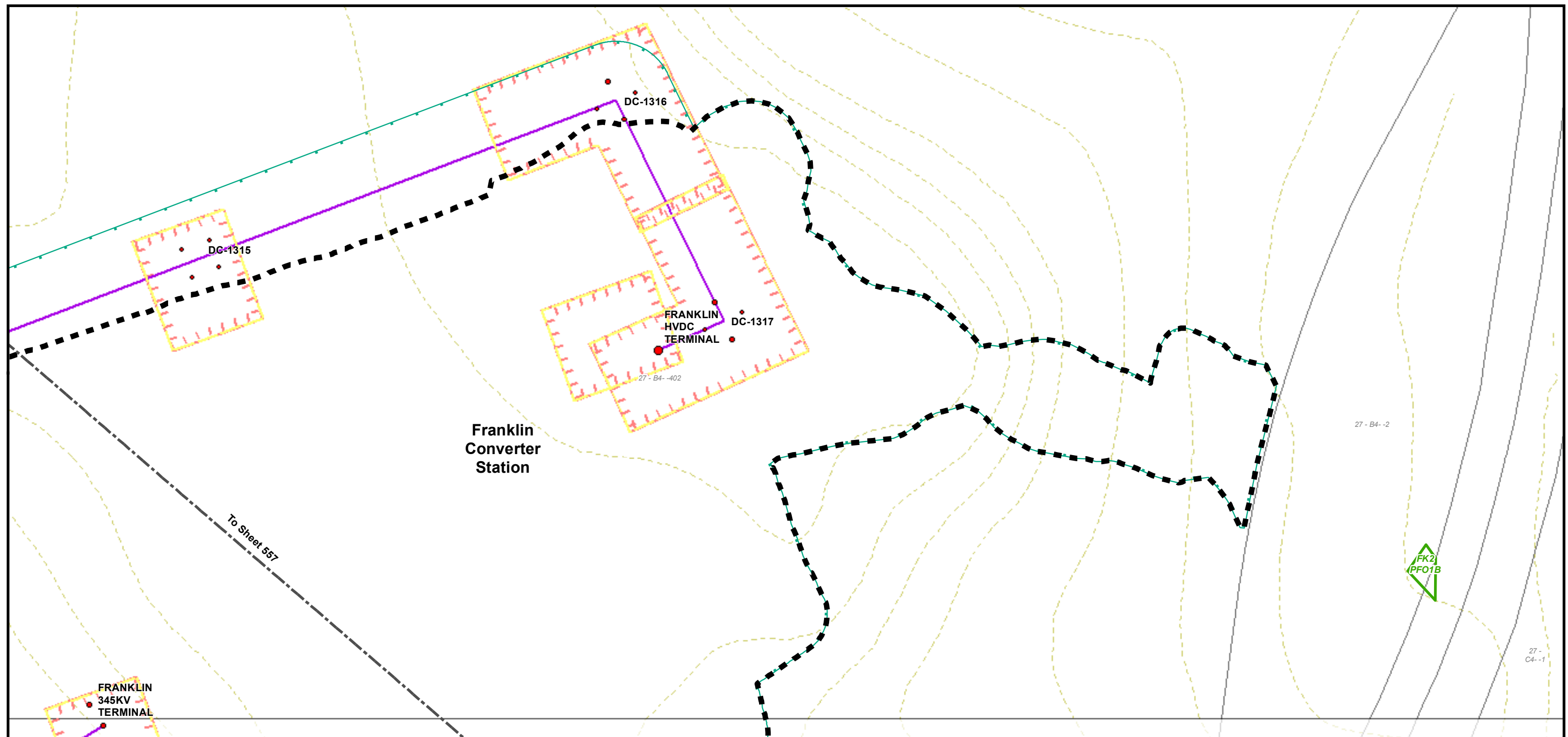
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Date: 1/22/2017









* High Quality Wetland, ^ Corps Reviewed
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

Sheet : 557A










## Existing Conditions





-  Existing Structure
-  Existing Structure to be Removed
-  Existing Right of Way
-  Existing Transmission Line
-  Existing Transmission Line to be Removed
-  100-year Floodzone
-  Wetlands
-  USACE Reviewed Wetlands

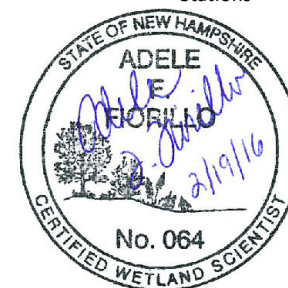
-  Vernal Pool
  -  100' Buffer of Vernal Pools
  -  Stream Buffer (varies : 25', 50', or 100')
- Delineated Waterbodies**
-  Perennial
  -  Intermittent
  -  Ephemeral
- Stream Centerlines**
-  Perennial
  -  Intermittent
  -  Ephemeral

- 
- Proposed Conditions**
- LiDAR 10' Contour
  - LiDAR 2' Contour
  - USGS 10' Contour
  - USGS 2' Contour
  - Proposed Structure - No Permanent Impact
  - Proposed Structure - Permanent Impact
  - Proposed New ROW
  - Proposed Transmission Distribution Line
  - Trenched UG
  - Trenchless UG

-  New Access Route
  -  Existing Access Route
  -  Temporary Construction Pad
  -  Temporary Area of Disturbance - Construction Pad
  -  Erosion and Sedimentation Control BMPs
  -  Erosion and Sedimentation Control BMPs (Steep Slope)
  -  Temporary Wetlands Matting
  -  Permanent Impacts - Stations
- 1 inch equals 100 feet  
when printed at 11" x 17"

-  Vegetation Clearing Areas
  -  Span Stream with No Permanent Impacts
- RTE Bars**
-  Animal
  -  Vegetation
  -  Both

-  UG Disturbance Area
-  UG Splice Vaults
-  Lay Down Yard
-  Limit of Disturbance - Stations



**NHDES Wetlands & US Army Corps of Engineers  
Section 404/10 Permit Application Plans**

THE NORTHERN PASS PROPOSED ROUTE

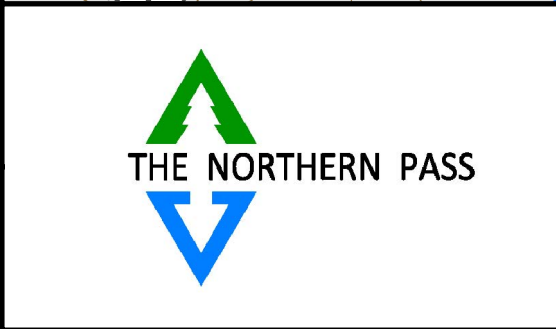
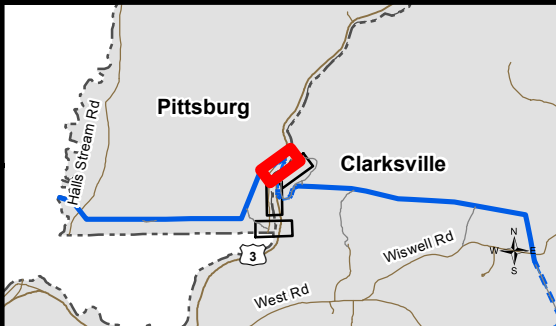
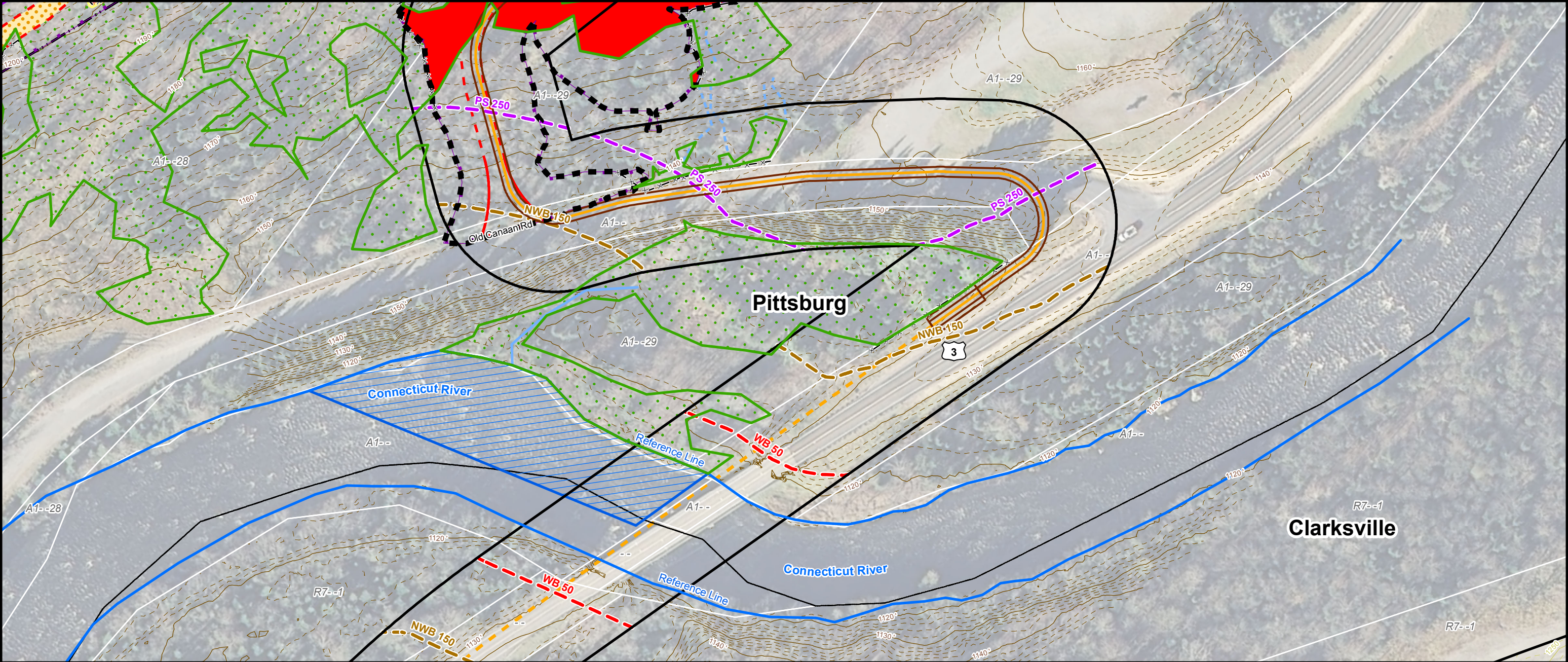
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Date: 1/22/2017

* High Quality Wetland, ^ Corps Reviewed
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Sheet : 557A





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

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

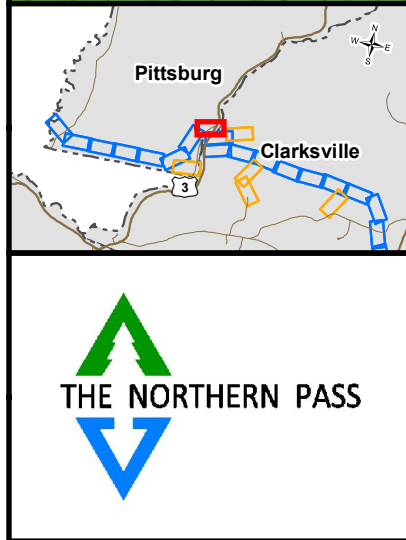
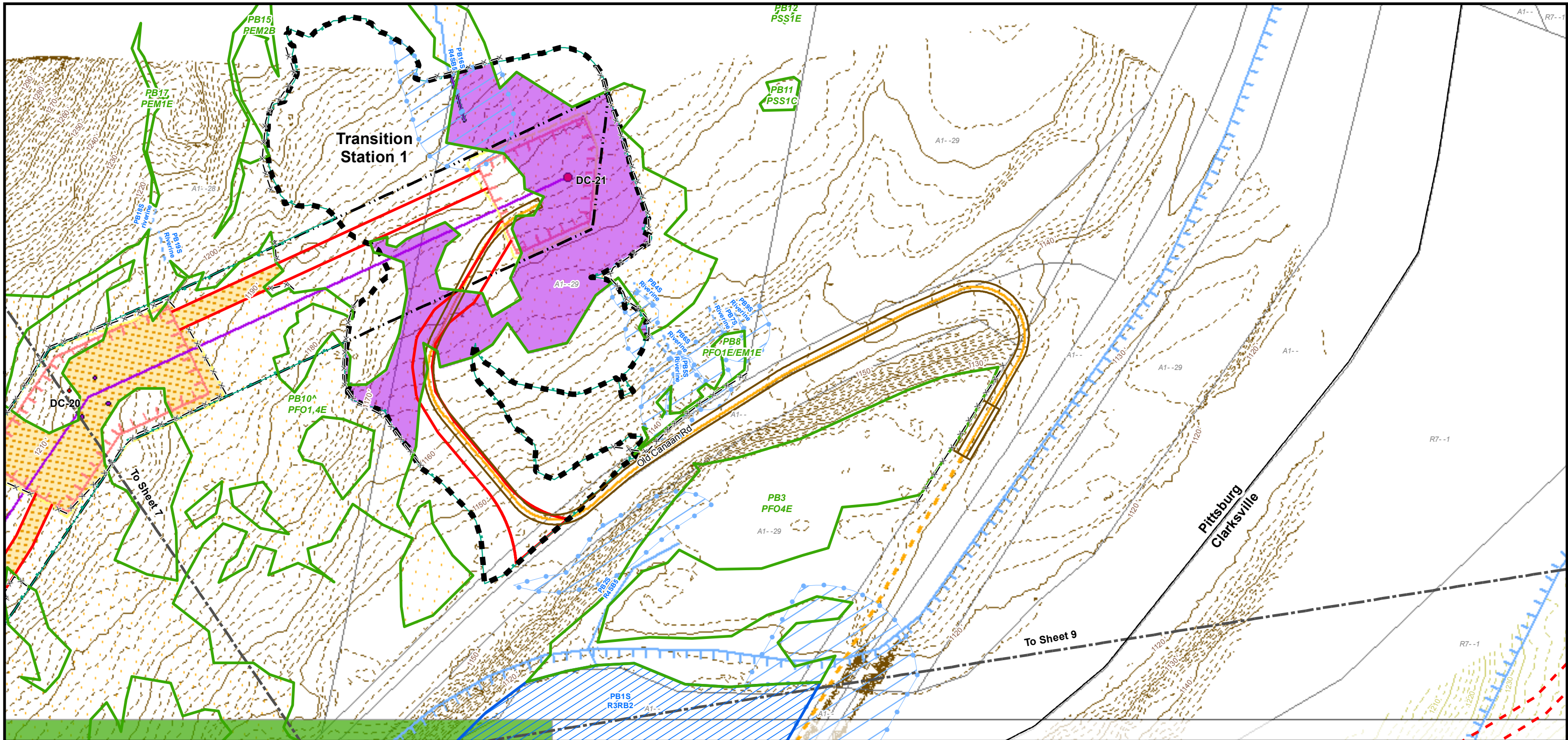
SWQPA Areas	Extent of Clearing (sq. ft.)	Construction Impacts (sq. ft.)		Impervious Surface (sq. ft.)	
	Clearing in Upland	Temporary	Permanent	Pre-Construction	Post - Construction
Waterfront Buffer (50')	0	0	0	2,268	2,268
Natural Woodland Buffer (150')	2,082	155	1,745	13,489	14,048
Protected Shoreland (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.









**Existing Conditions**

Existing Structure

Existing Structure to be Removed

Existing Right of Way

Existing Transmission Line

Existing Transmission Line to be Removed

100-year Floodzone

Wetlands

USACE Reviewed Wetlands

Vernal Pool

100' Buffer of Vernal Pools

Stream Buffer (varies : 25', 50', or 100')

**Delineated Waterbodies**

Perennial

Intermittent

Ephemeral

**Stream Centerlines**

Perennial

Intermittent

Ephemeral

LiDAR 10' Contour

LiDAR 2' Contour

USGS 10' Contour

USGS 2' Contour

**Proposed Conditions**

Proposed Structure - No Permanent Impact

Proposed Structure - Permanent Impact

Proposed New ROW

Proposed Transmission/Distribution Line

Trenched UG

Trenchless UG

New Access Route

Existing Access Route

Temporary Construction Pad

Temporary Area of Disturbance - Construction Pad

Erosion and Sedimentation Control BMPs

Erosion and Sedimentation Control BMPs (Steep Slope)

Temporary Wetlands Matting

Permanent Impacts - Stations

Vegetation Clearing Areas

Span Stream with No Permanent Impacts

**RTE Bars**

Animal

Vegetation

Both

UG Disturbance Area

UG Splice Vaults

Lay Down Yard

Limit of Disturbance - Stations

1 inch equals 100 feet when printed at 11" x 17"

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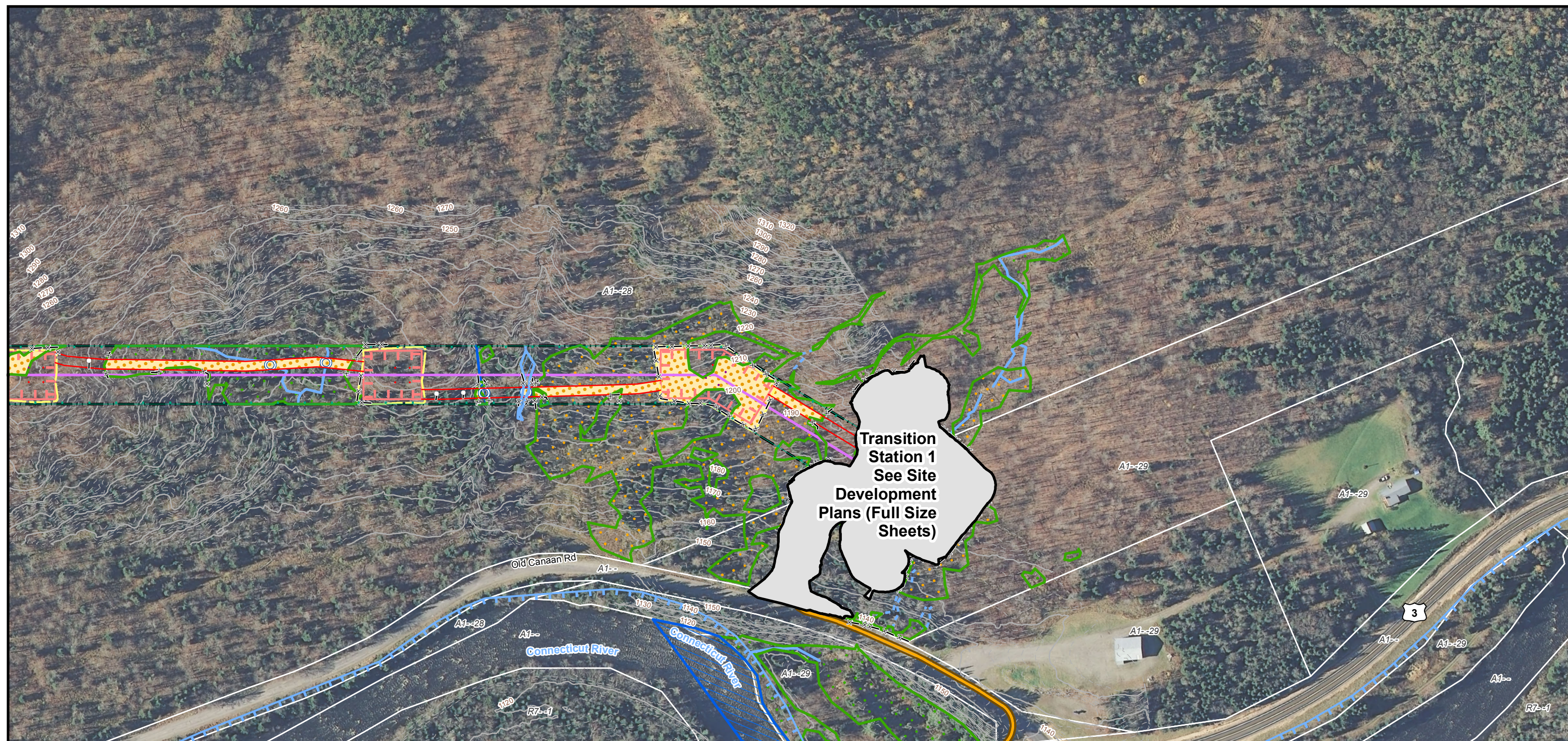
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W

NHDES Wetlands & US Army Corps of Engineers Section 404/10 Permit Application Plans						
THE NORTHERN PASS PROPOSED ROUTE						
Jurisdictional Impact Type and Amount			Extent of Clearing (sq ft)			
Wetland / Waterbody	Temporary Impact (sq ft)	Permanent Impact (sq ft)	In Forested Wetlands	Uplands w/in 100' of Streams	Uplands w/in 100' of Vernal Pools	
PB10 <sup>+</sup> , PFO1,4E	14,167	45,936	71,172	6,409	0	
PB15, PEM2B	0	2				
PB3, PFO4E	0	0				
PB8, PFO1E/EM1E	0	0				
PB16S, R4SB5	0	99				
PB1S, R3RB2	0	0				
PB2S, R4SB5	0	0				
PB5S, Riverine	0	0				
PB6S, Riverine	0	0				
PB7S, Riverine	0	0				
PB9S, Riverine	0	0				
Date: 1/20/2017			* High Quality Wetland, ^ Corps Reviewed			Sheet : 008

Sources: NH GRANIT, Normandeau; Cornerstone, Burns & McDonnell.





<b>Existing Conditions</b> <ul style="list-style-type: none"> <li>Existing Structure</li> <li>Existing Structure to be Removed</li> <li>Existing Transmission Line</li> <li>Existing Transmission Line to be Removed</li> <li>Existing Right of Way</li> <li>Wetlands</li> <li>USACE Reviewed Wetlands</li> </ul>	<ul style="list-style-type: none"> <li>LiDAR 10' Contour</li> <li>LiDAR 2' Contour</li> <li>USGS 10' Contour</li> <li>USGS 2' Contour</li> <li>Parcels</li> <li>100-year Floodzone</li> </ul> <b>Delineated Waterbodies</b> <ul style="list-style-type: none"> <li>Perennial</li> <li>Intermittent</li> <li>Ephemeral</li> </ul>	<b>Stream Centerlines</b> <ul style="list-style-type: none"> <li>Perennial</li> <li>Intermittent</li> <li>Ephemeral</li> </ul> <b>Proposed Conditions</b> <ul style="list-style-type: none"> <li>Proposed Structure - No Permanent Impact</li> <li>Proposed Structure - Permanent Impact</li> <li>Proposed Transmission / Distribution Line</li> </ul>	<ul style="list-style-type: none"> <li>Temporary Construction Pad</li> <li>Proposed New Right of Way</li> <li>Proposed Access Route</li> <li>Temporary Work Pad Disturbance Area</li> <li>Temporary Wetlands Matting (16' x 16')</li> <li>Erosion and Sedimentation Control BMPs</li> <li>Erosion and Sedimentation Control BMPs (Steep Slope)</li> </ul>	<ul style="list-style-type: none"> <li>Trenched UG</li> <li>Trenchless UG</li> <li>UG Splice Vault</li> <li>UG Sending/Receiving Pit</li> <li>Vegetation Clearing Areas</li> <li>Span Stream with No Permanent Impacts</li> </ul>
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1 inch equals 200 feet when printed at 11" x 17"

0 100 200 Feet

**The Northern Pass Transmission Project**

**NHDES Alteration of Terrain**

**Permit Application Plans**

Sheet 004

**THE NORTHERN PASS**

1/22/2017