

SPLP has had revisions to the proposed workspaces in Washington County since submittal of the Chapter 105 and 102 Permit Applications in March 2016. These revisions have been the result of landowner requests, agency requests, the avoidance of sensitive species or their habitats, and/or to further reduce impacts to aquatic resources. The additions and subtractions to the workspaces are listed and quantified within Table 1. In addition, this attachment highlights the location and extent of these additions and subtractions to the workspaces on a set of site plans. Each addition/subtraction has been assigned an identification code and that code is reflected below and on the set of site plans. The additions and subtractions are listed from west to east. A total of approximately 0.7171 acres was added and 1.1875 acres subtracted for a net decrease of 0.4704 acres of earth disturbance.

**Table 1. Pennsylvania Pipeline Project LOD Additions and Subtractions.**

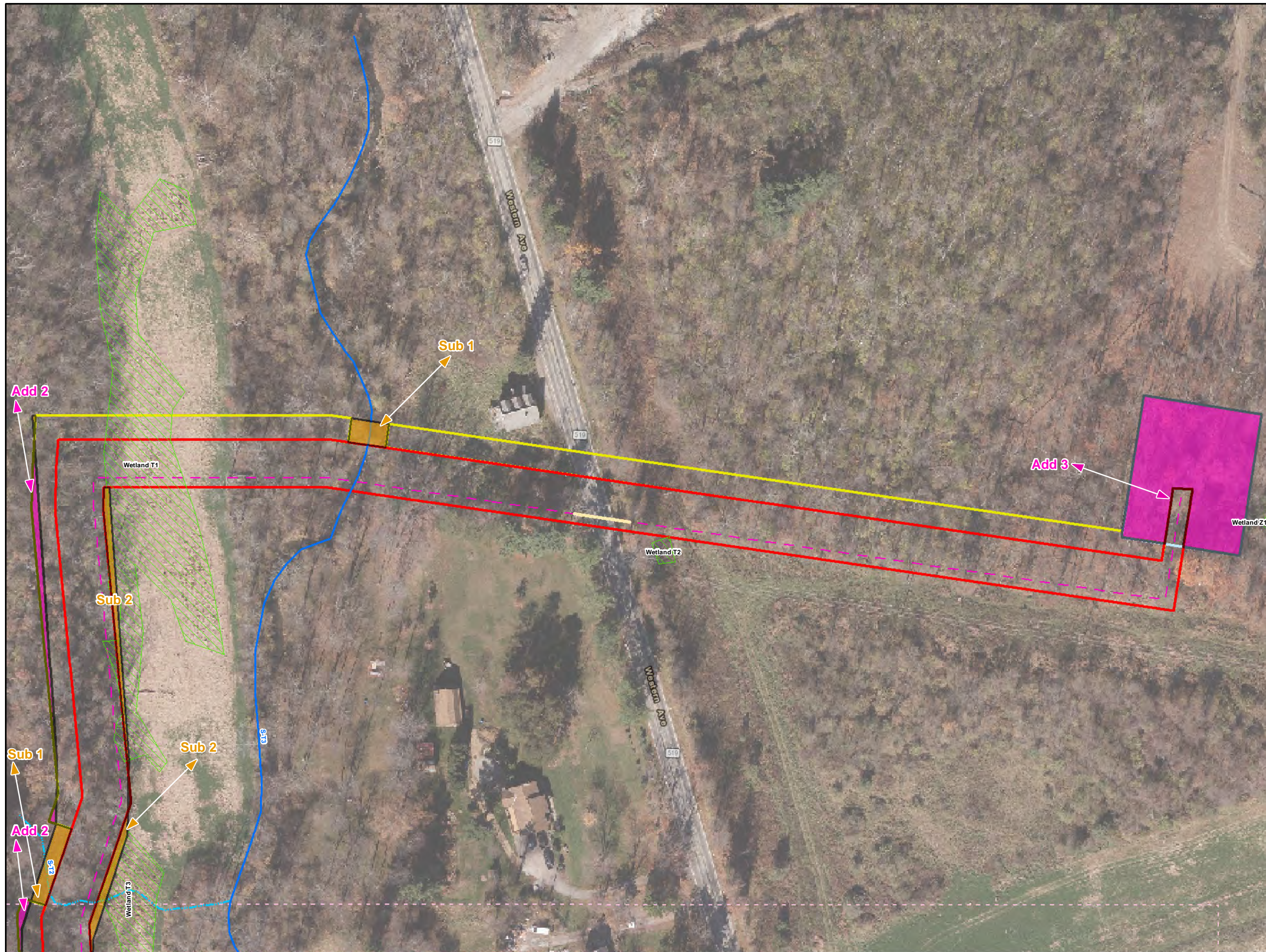
<b>CHANGE ID</b>	<b>COUNTY</b>	<b>REASON FOR CHANGE</b>	<b>ACREAGE</b>	<b>LOD ADDITION OR SUBTRACTION</b>	<b>WETLAND DELINEATION<sup>1</sup></b>	<b>PNDI EVALUATION<sup>2</sup></b>	<b>SHEET NUMBER</b>
Houston Injection Station	WASHINGTON	Station design	0.0077	Subtraction	NA	NA	4
Houston Injection Station	WASHINGTON	Station design	0.0017	Addition	Yes	Yes	4
Add-1	WASHINGTON	Minor LOD adjustment to facilitate safe installation.	0.0220	Addition	Yes	Yes	4
Add-2	WASHINGTON	Minor LOD adjustment to facilitate safe installation.	0.1469	Addition	Yes	Yes	1
Sub-1	WASHINGTON	LOD adjustment to minimize aquatic resource impact.	0.0914	Subtraction	NA	NA	1
Sub-2	WASHINGTON	LOD adjustment to minimize aquatic resource impact.	0.1476	Subtraction	NA	NA	1
Add-3	WASHINGTON	Additional temporary workspace to facilitate safe installation.	0.4026	Addition	Yes	Yes	2
Sub-3	WASHINGTON	Temporary workspace no longer needed in this area.	0.7398	Subtraction	NA	NA	35
Add-4	WASHINGTON	Temporary access road to avoid travel through residential area.	0.1072	Addition	Yes	Yes	37

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Sub-4	WASHINGTON	Travel / Clearing LOD reduction	0.1756	Subtraction	NA	NA	38
Sub-5	WASHINGTON	Travel / Clearing LOD reduction	0.0254	Subtraction	NA	NA	39
Add-5	WASHINGTON	Minor LOD adjustment to facilitate safe installation.	0.0367	Addition	Yes	Yes	73

1 – The added area was field investigated for aquatic resources. Not applicable is listed for LOD subtractions.

2 – The added area was originally evaluated for PNDI. Not applicable is listed for LOD subtractions.





**Legend**

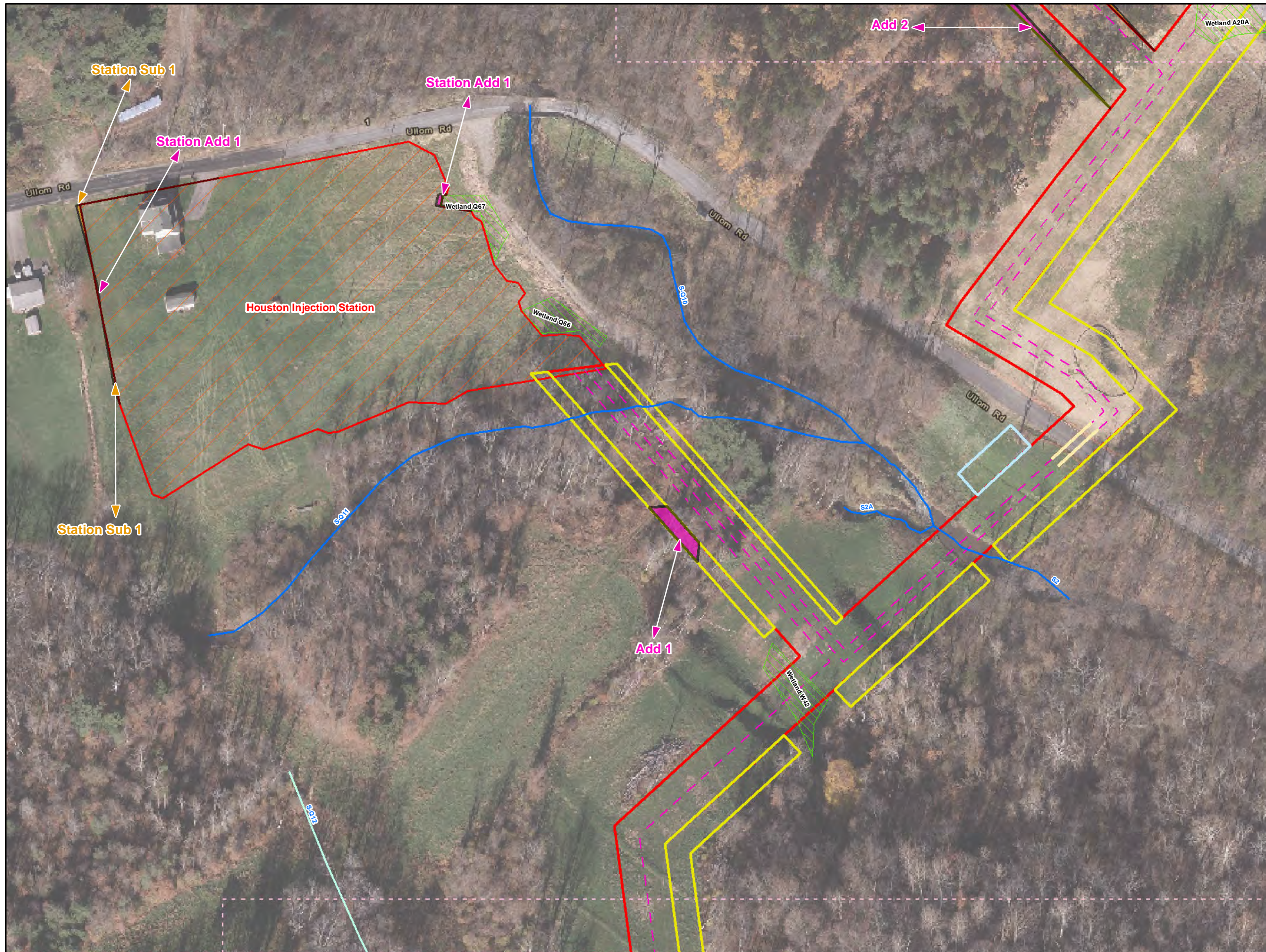
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- PEM
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**1 inch = 100 feet**

**Workspace Changes for the Sunoco Pennsylvania Pipeline Project, Washington County, PA.**  
2 of 80

Prepared By: 	Date: <b>10/2016</b>
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Base Map: Sunoco, 2013-2016  
 Roads: ESRI World Imagery Transportation  
 Coordinate System: NAD 83 Stateplane, PA South, Feet



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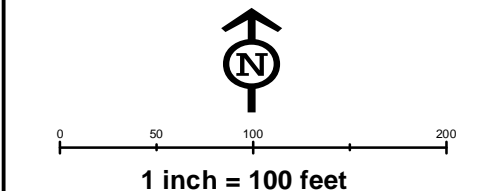
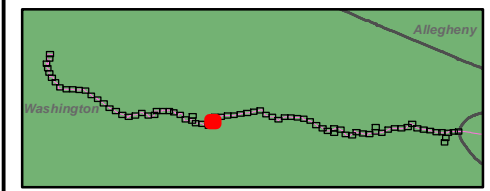
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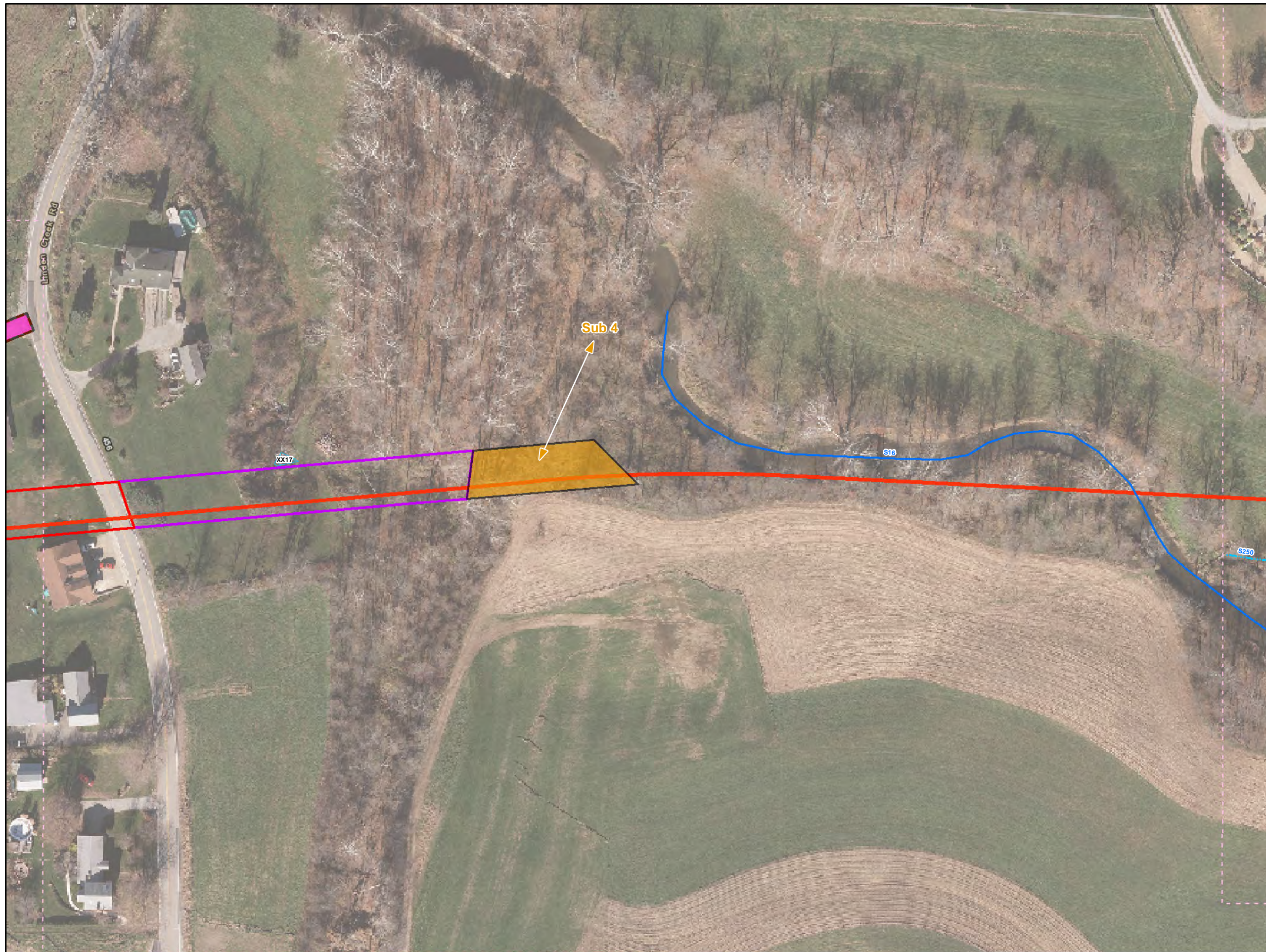
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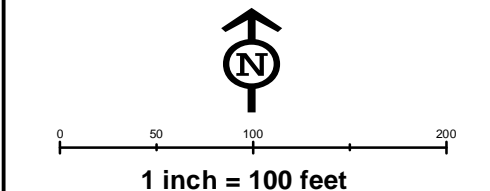
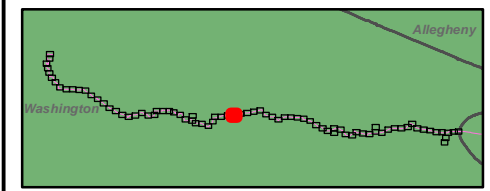
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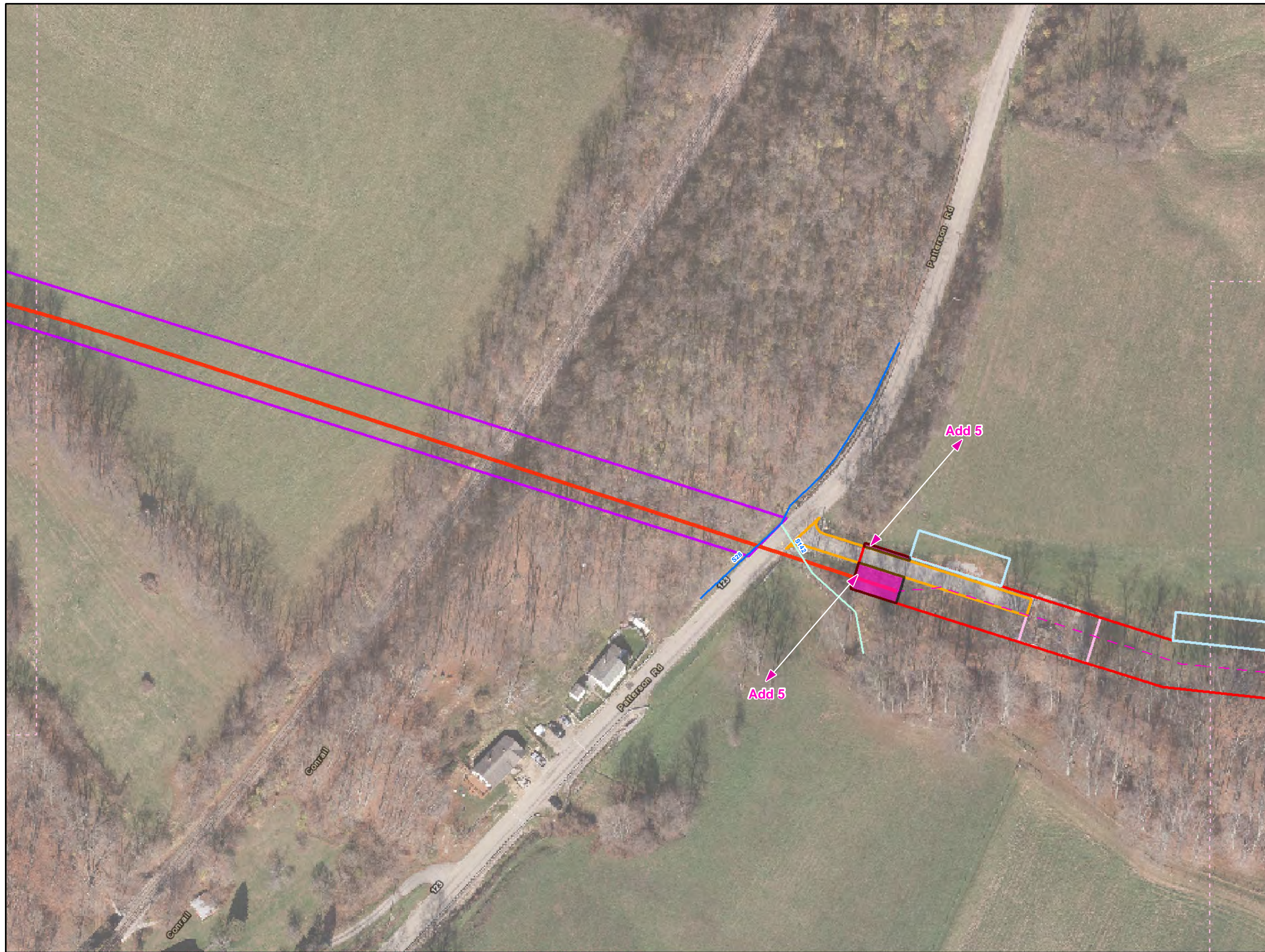


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Prepared By: 	Date: <b>10/2016</b>
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SPLP has had revisions to the proposed workspaces in Allegheny County since submittal of the Chapter 105 and 102 Permit Applications in March 2016. These revisions have been the result of landowner requests, agency requests, the avoidance of sensitive species or their habitats, and/or to further reduce impacts to aquatic resources. The additions and subtractions to the workspaces are listed and quantified within Table 1. In addition, this attachment highlights the location and extent of these additions and subtractions to the workspaces on a set of site plans. Each addition/subtraction has been assigned an identification code and that code is reflected below and on the set of site plans. The additions and subtractions are listed from west to east. A total of approximately 0.0600 acres was added and 0.0757 acres subtracted for a net decrease of 0.0157 acres of earth disturbance.

**Table 1. Pennsylvania Pipeline Project LOD Additions and Subtractions.**

<b>CHANGE ID</b>	<b>COUNTY</b>	<b>REASON FOR CHANGE</b>	<b>ACREAGE</b>	<b>LOD ADDITION OR SUBTRACTION</b>	<b>WETLAND DELINEATION<sup>1</sup></b>	<b>PNDI EVALUATION<sup>2</sup></b>	<b>SHEET NUMBER</b>
Add-6	ALLEGHENY	Minor access road adjustment to address landowner request	0.0600	Addition	Yes	Yes	31
Sub-6	ALLEGHENY	Minor access road adjustment to address landowner request	0.0757	Subtraction	NA	NA	31

1 – The added area was field investigated for aquatic resources. Not applicable is listed for LOD subtractions.

2 – The added area was originally evaluated for PNDI. Not applicable is listed for LOD subtractions.



SPLP has had revisions to the proposed workspaces in Westmoreland County since submittal of the Chapter 105 and 102 Permit Applications in March 2016. These revisions have been the result of landowner requests, agency requests, the avoidance of sensitive species or their habitats, and/or to further reduce impacts to aquatic resources. The additions and subtractions to the workspaces are listed and quantified within Table 1. In addition, this attachment highlights the location and extent of these additions and subtractions to the workspaces on a set of site plans. Each addition/subtraction has been assigned an identification code and that code is reflected below and on the set of site plans. The additions and subtractions are listed from west to east. A total of approximately 8.5156 acres was added and 1.4720 acres subtracted for a net increase of 7.0436 acres of earth disturbance.

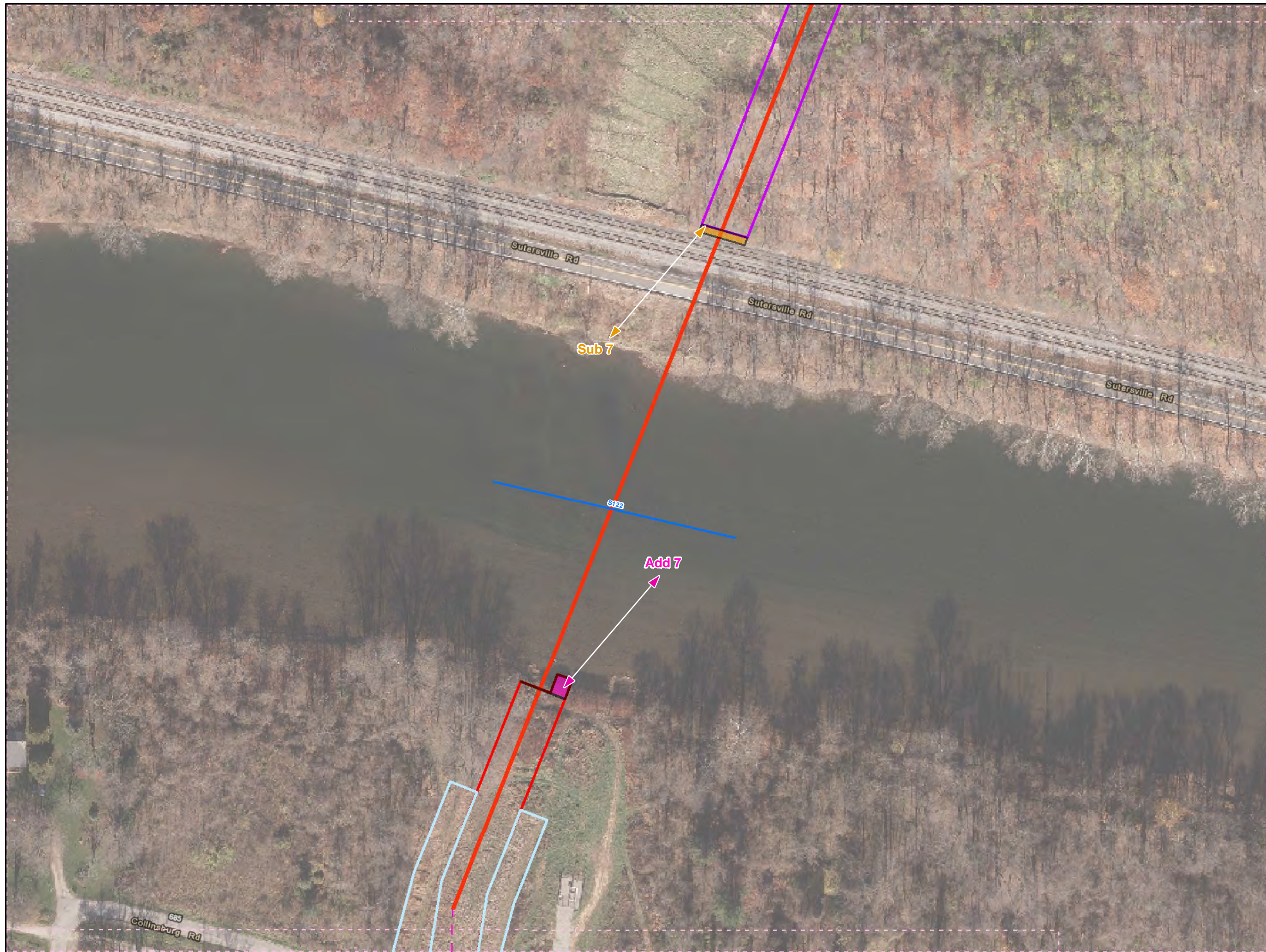
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Add-7	WESTMORELAND	Minor LOD adjustment needed to facilitate safe installation.	0.0082	Addition	Yes	Yes	12
Sub-7	WESTMORELAND	Minor LOD adjustment needed to avoid railroad impact.	0.0092	Subtraction	NA	NA	12
Sub-8	WESTMORELAND	Minor LOD adjustment to avoid impact to public road	0.0019	Subtraction	NA	NA	18
Sub-9	WESTMORELAND	Temporary construction workspace no longer needed	0.0525	Subtraction	NA	NA	24
Add-8	WESTMORELAND	Minor LOD adjustment to minimize access road impact	0.1879	Addition	Yes	Yes	37
Sub-10	WESTMORELAND	Minor LOD adjustment to minimize access road impact	0.4059	Subtraction	NA	NA	37
Sub-11	WESTMORELAND	Temporary access road adjustment to avoid wetland impacts	0.0873	Subtraction	NA	NA	41
Sub-12	WESTMORELAND	Temporary access road adjustment to avoid pre-existing valve	0.1210	Subtraction	NA	NA	44
Add-9	WESTMORELAND	Minor LOD adjustment needed to facilitate safe installation	0.0338	Addition	Yes	Yes	57

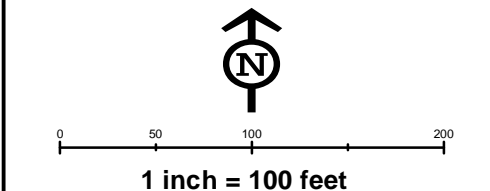
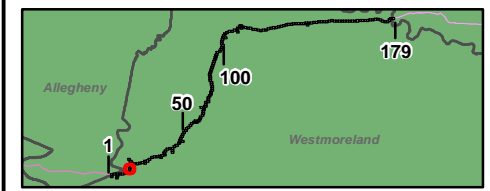
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Add-10	WESTMORELAND	Minor LOD adjustment needed to facilitate safe installation	0.0317	Addition	Yes	Yes	73
Add-11	WESTMORELAND	Minor LOD adjustment needed to facilitate safe installation	0.0518	Addition	Yes	Yes	71
Sub-13	WESTMORELAND	Decreased cleared area necessary for travel	0.0060	Subtraction	NA	NA	106
Sub-14	WESTMORELAND	Temporary access road no longer needed	0.6639	Subtraction	NA	NA	104
Delmont Station Add-12	WESTMORELAND	Minor LOD adjustment to use existing access road	3.7002	Addition	Yes	Yes	115
Delmont Station Sub-15	WESTMORELAND	Permanent access road no longer needed	0.0278	Subtraction	NA	NA	118
Add-13	WESTMORELAND	Minor LOD adjustment needed to facilitate safe installation	0.1532	Addition	Yes	Yes	131
Sub-16	WESTMORELAND	Minor LOD adjustment to minimize waterbody impact	0.0169	Subtraction	NA	NA	144
Sub-17	WESTMORELAND	Minor LOD adjustment to minimize waterbody impact	0.0167	Subtraction	NA	NA	162
Add-14	WESTMORELAND	Temporary access road to avoid wetland and waterbody impacts	0.3221	Addition	Yes	Yes	164
Add-15	WESTMORELAND	LOD adjustment needed to facilitate safe installation	2.2987	Addition	Yes	Yes	172
Add-16	WESTMORELAND	LOD adjustment needed to facilitate safe installation	1.7280	Addition	Yes	Yes	173
Sub-18	WESTMORELAND	Minor LOD adjustment needed to facilitate safe installation	0.0629	Subtraction	NA	NA	172

1 – The added area was field investigated for aquatic resources. Not applicable is listed for LOD subtractions.

2 – The added area was originally evaluated for PNDI. Not applicable is listed for LOD subtractions.



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Pennsylvania Pipeline Project,  
Westmoreland County, PA.  
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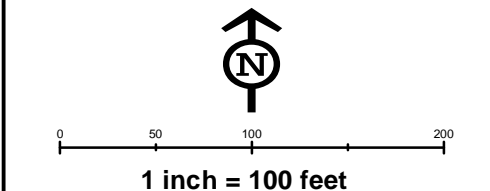
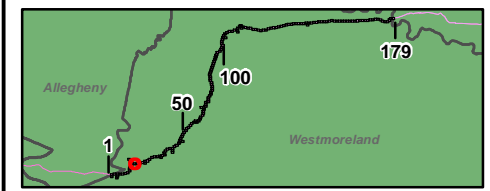
Prepared By: <b>TETRA TECH</b>	Date: <b>10/2016</b>
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Base Map: Sunoco, 2013-2016  
Roads: ESRI World Imagery Transportation  
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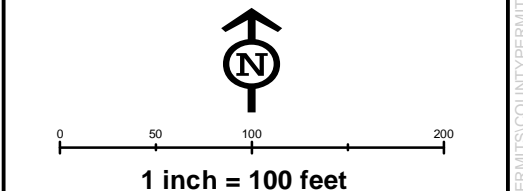
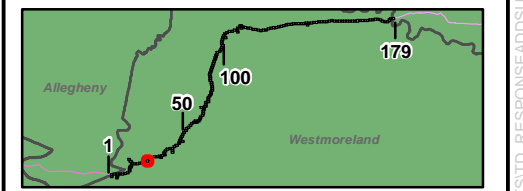
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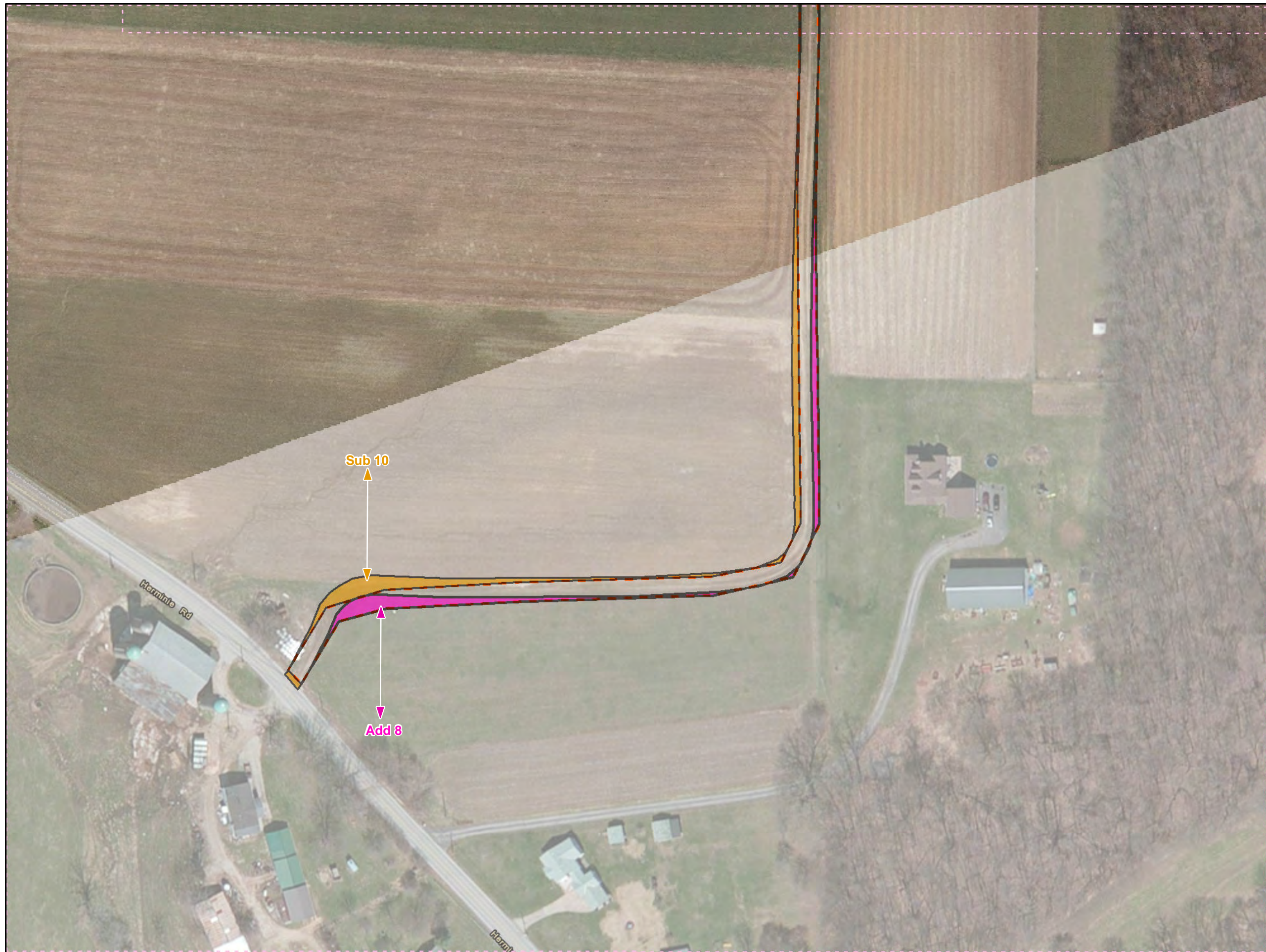
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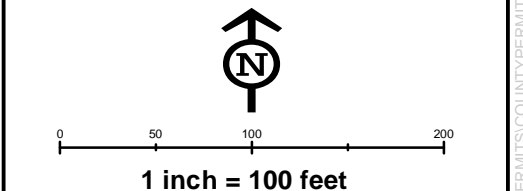
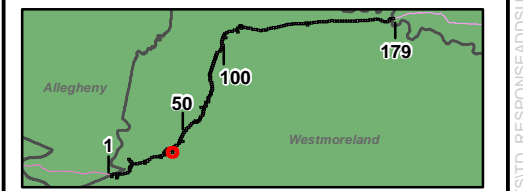
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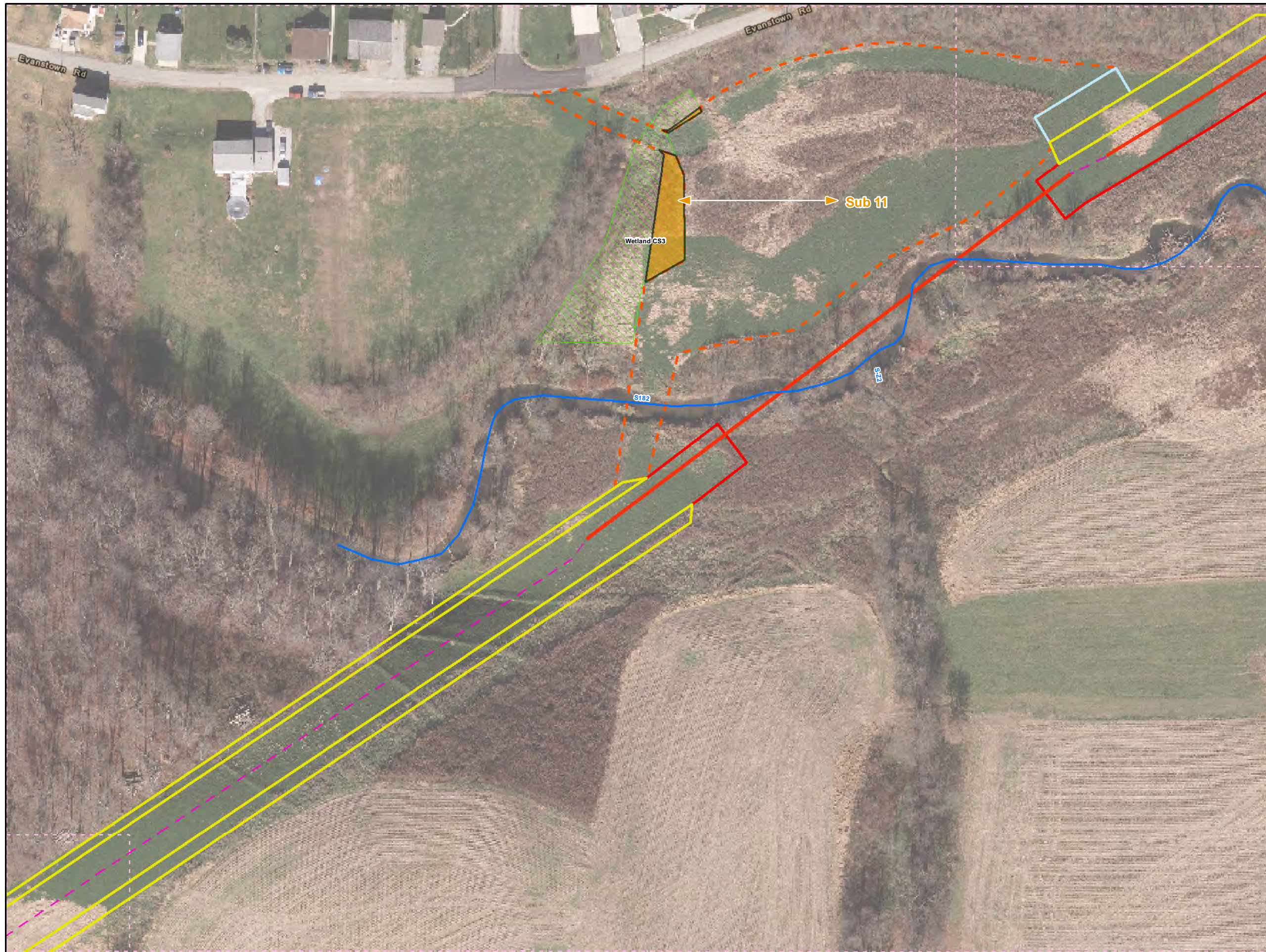


**Workspace Changes for the Sunoco  
Pennsylvania Pipeline Project,  
Westmoreland County, PA.  
39 of 179**

Prepared By: 	Date: <b>10/2016</b>
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Base Map: Sunoco, 2013-2016  
 Roads: ESRI World Imagery Transportation  
 Coordinate System: NAD 83 Stateplane, PA South, Feet

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**Legend**

- Added Workspace
- Removed Workspace
- Proposed 20-inch Pipeline
- Proposed 16-inch Pipeline
- Bore Path
- PPP 1 HDD
- PPP 2 HDD
- Permanent ROW
- Temporary Workspace
- Additional Temporary Workspace or ATWS
- Block Valve Setting LOD
- Permanent Access Road
- Temporary Access Road
- Travel LOD
- Travel and Clearing LOD
- Station
- Ephemeral Stream
- Intermittent Stream
- Perennial Stream
- Pond
- PEM
- PFO
- PSS

N

0 50 100 200

1 inch = 100 feet

**Workspace Changes for the Sunoco Pennsylvania Pipeline Project, Westmoreland County, PA.**  
41 of 179

Prepared By: <b>TETRA TECH</b>	Date: <b>10/2016</b>
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Base Map: Sunoco, 2013-2016  
Roads: ESRI World Imagery Transportation  
Coordinate System: NAD 83 Stateplane, PA South, Feet

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**Legend**

- Added Workspace
- Removed Workspace
- Proposed 20-inch Pipeline
- Proposed 16-inch Pipeline
- Bore Path
- PPP 1 HDD
- PPP 2 HDD
- Permanent ROW
- Temporary Workspace
- Additional Temporary Workspace or ATWS
- Block Valve Setting LOD
- Permanent Access Road
- Temporary Access Road
- Travel LOD
- Travel and Clearing LOD
- Station
- Ephemeral Stream
- Intermittent Stream
- Perennial Stream
- Pond
- PEM
- PFO
- PSS

N

0 50 100 200

1 inch = 100 feet

**Workspace Changes for the Sunoco Pennsylvania Pipeline Project, Westmoreland County, PA.**  
44 of 179

Prepared By: 	Date: <b>10/2016</b>
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Base Map: Sunoco, 2013-2016  
 Roads: ESRI World Imagery Transportation  
 Coordinate System: NAD 83 Stateplane, PA South, Feet

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**Legend**

- Added Workspace
- Removed Workspace
- Proposed 20-inch Pipeline
- Proposed 16-inch Pipeline
- Bore Path
- PPP 1 HDD
- PPP 2 HDD
- Permanent ROW
- Temporary Workspace
- Additional Temporary Workspace or ATWS
- Block Valve Setting LOD
- Permanent Access Road
- Temporary Access Road
- Travel LOD
- Travel and Clearing LOD
- Station
- Ephemeral Stream
- Intermittent Stream
- Perennial Stream
- Pond
- PEM
- PFO
- PSS

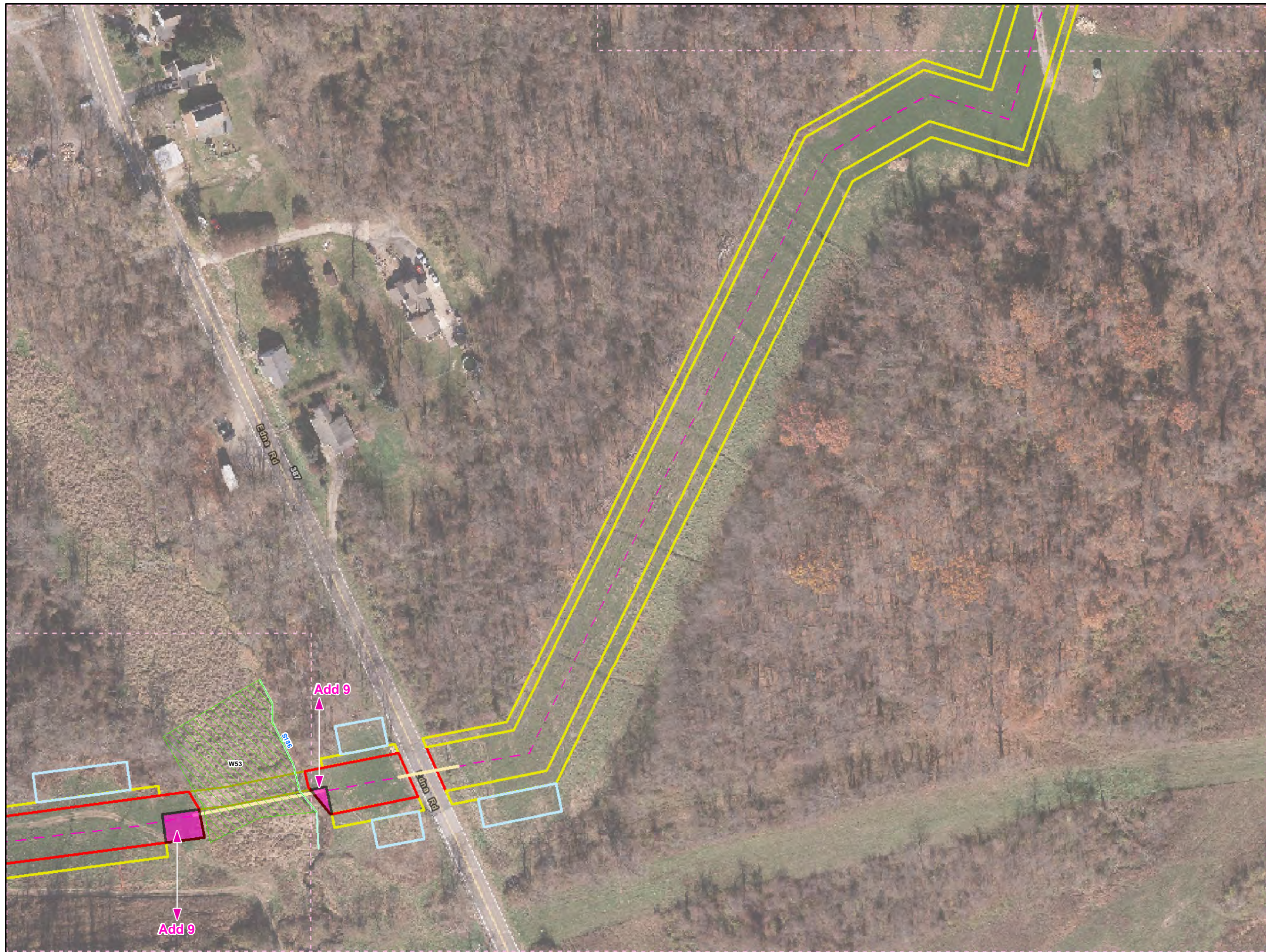
**1 inch = 100 feet**

**Workspace Changes for the Sunoco  
Pennsylvania Pipeline Project,  
Westmoreland County, PA.  
57 of 179**

<b>Prepared By:</b> 	<b>Date:</b> <b>10/2016</b>
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Base Map: Sunoco, 2013-2016  
 Roads: ESRI World Imagery Transportation  
 Coordinate System: NAD 83 Stateplane, PA South, Feet

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**Legend**

- Added Workspace
- Removed Workspace
- Proposed 20-inch Pipeline
- Proposed 16-inch Pipeline
- Bore Path
- PPP 1 HDD
- PPP 2 HDD
- Permanent ROW
- Temporary Workspace
- Additional Temporary Workspace or ATWS
- Block Valve Setting LOD
- Permanent Access Road
- Temporary Access Road
- Travel LOD
- Travel and Clearing LOD
- Station
- Ephemeral Stream
- Intermittent Stream
- Perennial Stream
- Pond
- PEM
- PFO
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Allegheeny Westmoreland

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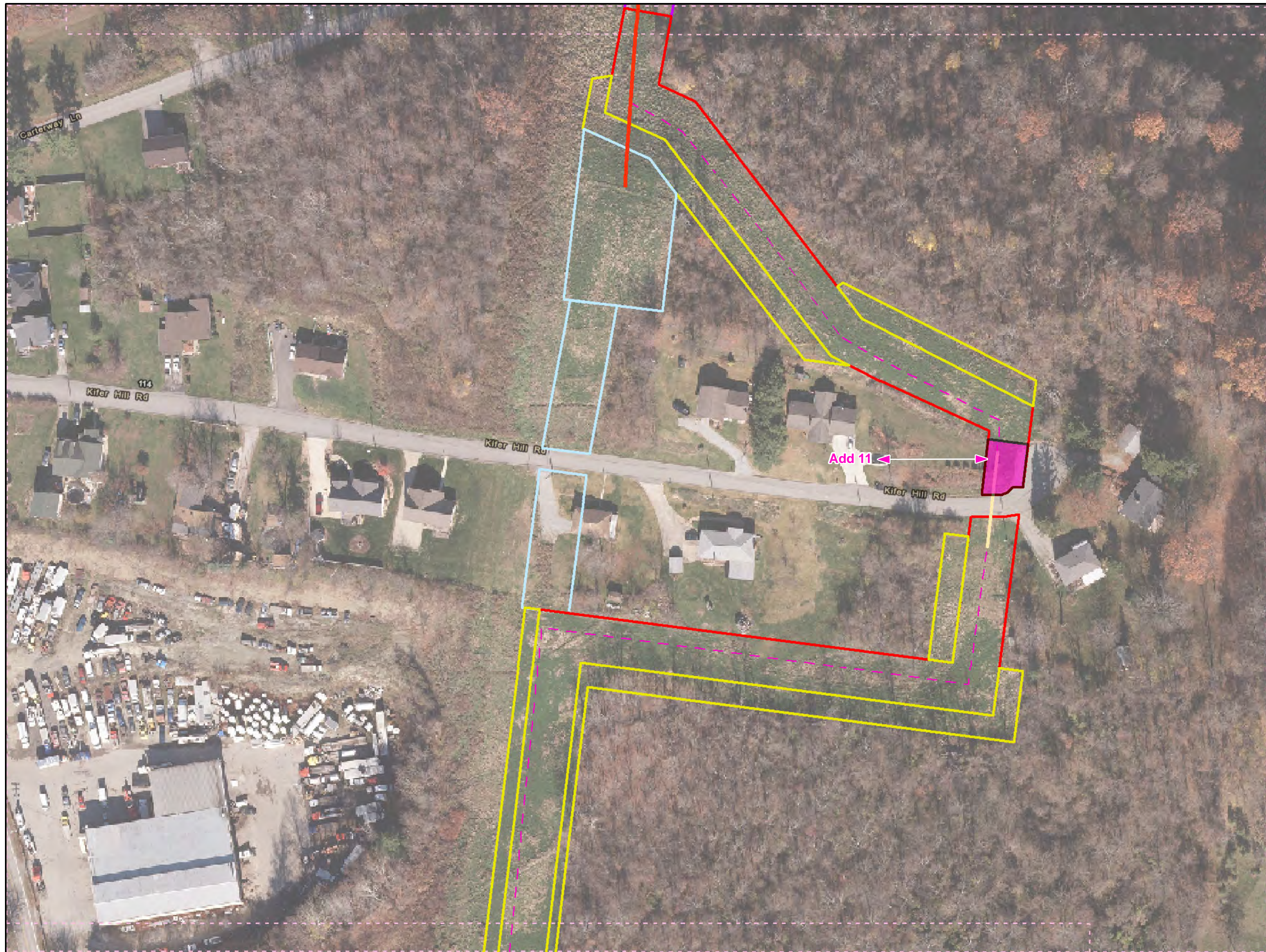
0 50 100 200

**1 inch = 100 feet**

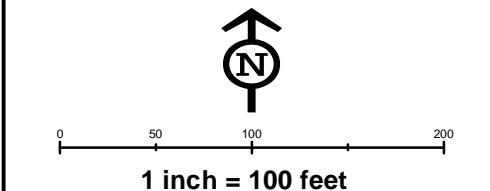
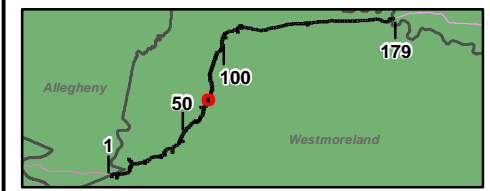
**Workspace Changes for the Sunoco Pennsylvania Pipeline Project, Westmoreland County, PA.**  
58 of 179

Prepared By: 	Date: <b>10/2016</b>
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Base Map: Sunoco, 2013-2016  
 Roads: ESRI World Imagery Transportation  
 Coordinate System: NAD 83 Stateplane, PA South, Feet



- Legend**
- Added Workspace
  - Removed Workspace
  - Proposed 20-inch Pipeline
  - Proposed 16-inch Pipeline
  - Bore Path
  - PPP 1 HDD
  - PPP 2 HDD
  - Permanent ROW
  - Temporary Workspace
  - Additional Temporary Workspace or ATWS
  - Block Valve Setting LOD
  - Permanent Access Road
  - Temporary Access Road
  - Travel LOD
  - Travel and Clearing LOD
  - Station
  - Ephemeral Stream
  - Intermittent Stream
  - Perennial Stream
  - Pond
  - PEM
  - PFO
  - PSS

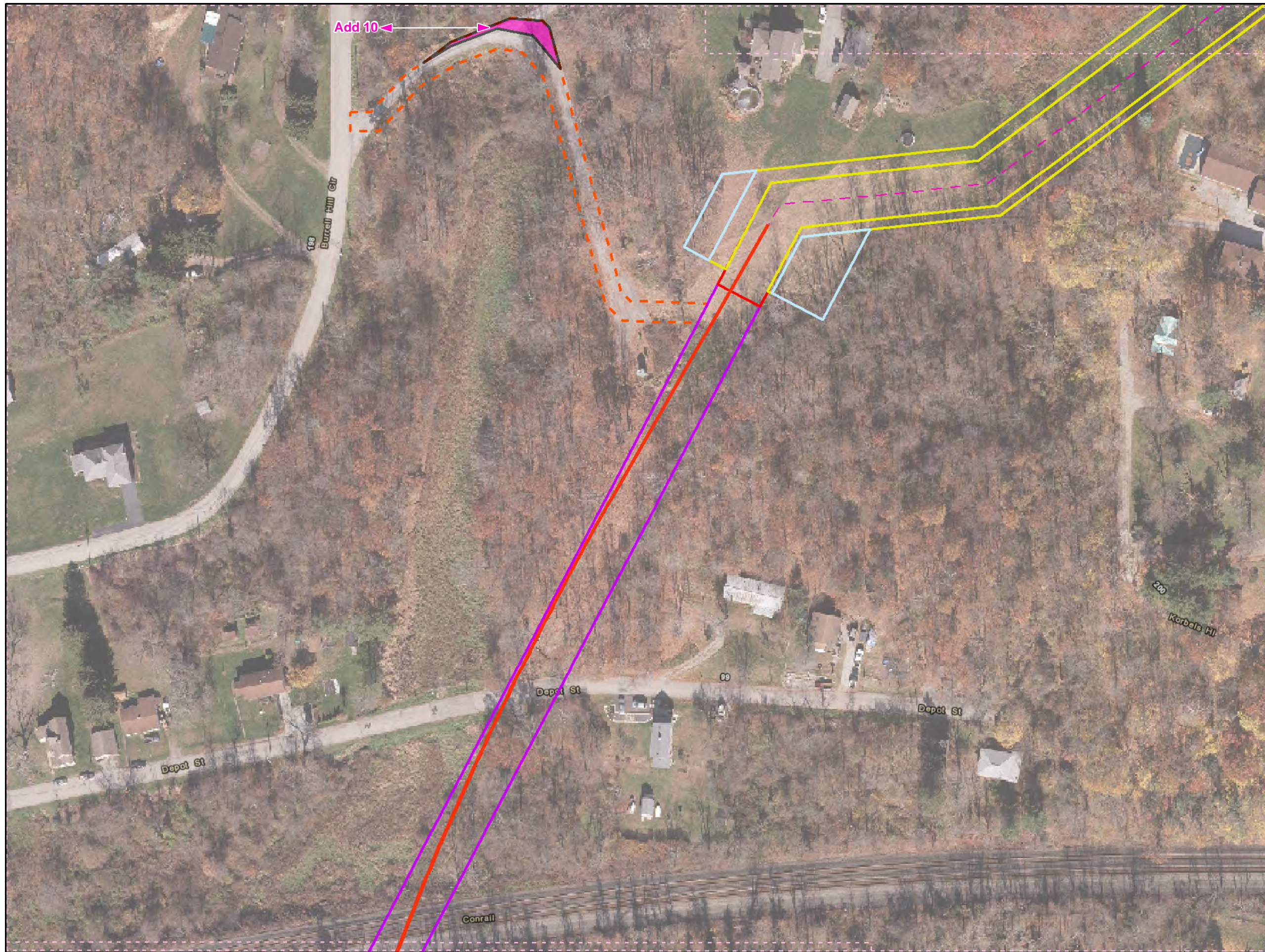


**Workspace Changes for the Sunoco  
Pennsylvania Pipeline Project,  
Westmoreland County, PA.  
71 of 179**

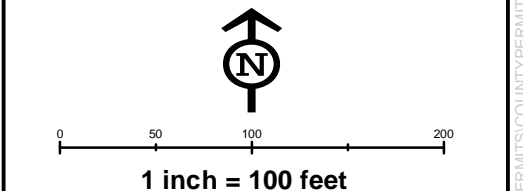
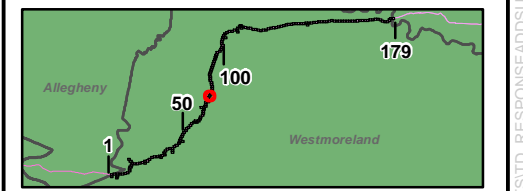
Prepared By: <b>TETRA TECH</b>	Date: <b>10/2016</b>
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Base Map: Sunoco, 2013-2016  
Roads: ESRI World Imagery Transportation  
Coordinate System: NAD 83 Stateplane, PA South, Feet

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- Legend**
- Added Workspace
  - Removed Workspace
  - Proposed 20-inch Pipeline
  - Proposed 16-inch Pipeline
  - Bore Path
  - PPP 1 HDD
  - PPP 2 HDD
  - Permanent ROW
  - Temporary Workspace
  - Additional Temporary Workspace or ATWS
  - Block Valve Setting LOD
  - Permanent Access Road
  - Temporary Access Road
  - Travel LOD
  - Travel and Clearing LOD
  - Station
  - Ephemeral Stream
  - Intermittent Stream
  - Perennial Stream
  - Pond
  - PEM
  - PFO
  - PSS

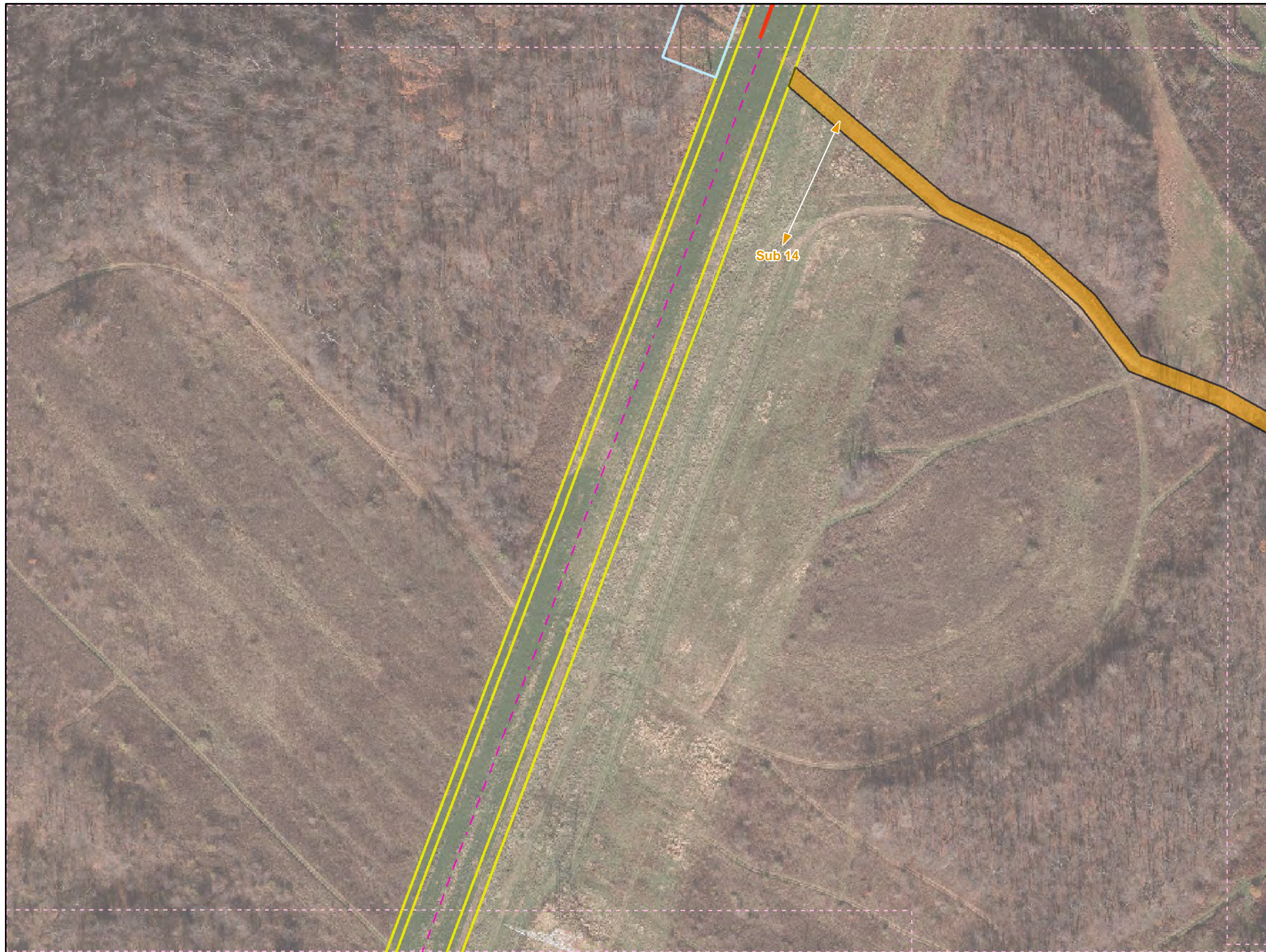


**Workspace Changes for the Sunoco  
Pennsylvania Pipeline Project,  
Westmoreland County, PA.  
73 of 179**

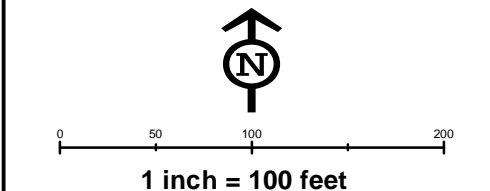
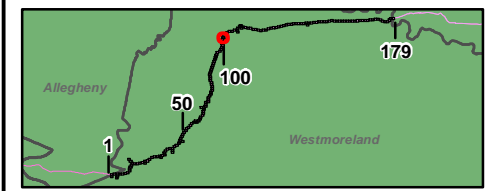
Prepared By: 	Date: <b>10/2016</b>
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Base Map: Sunoco, 2013-2016  
 Roads: ESRI World Imagery Transportation  
 Coordinate System: NAD 83 Stateplane, PA South, Feet

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- Legend**
- Added Workspace
  - Removed Workspace
  - Proposed 20-inch Pipeline
  - Proposed 16-inch Pipeline
  - Bore Path
  - PPP 1 HDD
  - PPP 2 HDD
  - Permanent ROW
  - Temporary Workspace
  - Additional Temporary Workspace or ATWS
  - Block Valve Setting LOD
  - Permanent Access Road
  - Temporary Access Road
  - Travel LOD
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  - Station
  - Ephemeral Stream
  - Intermittent Stream
  - Perennial Stream
  - Pond
  - PEM
  - PFO
  - PSS



**Workspace Changes for the Sunoco  
Pennsylvania Pipeline Project,  
Westmoreland County, PA.  
104 of 179**

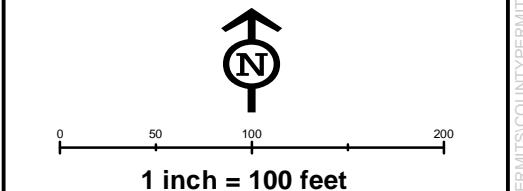
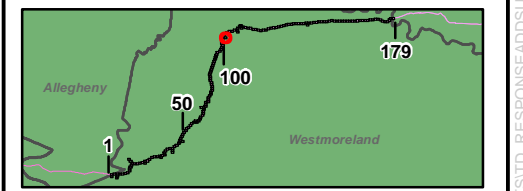
<b>Prepared By:</b> 	<b>Date:</b> <b>10/2016</b>
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Base Map: Sunoco, 2013-2016  
 Roads: ESRI World Imagery Transportation  
 Coordinate System: NAD 83 Stateplane, PA South, Feet

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- Legend**
- Added Workspace
  - Removed Workspace
  - Proposed 20-inch Pipeline
  - Proposed 16-inch Pipeline
  - Bore Path
  - PPP 1 HDD
  - PPP 2 HDD
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  - Additional Temporary Workspace or ATWS
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  - Travel LOD
  - Travel and Clearing LOD
  - Station
  - Ephemeral Stream
  - Intermittent Stream
  - Perennial Stream
  - Pond
  - PEM
  - PFO
  - PSS

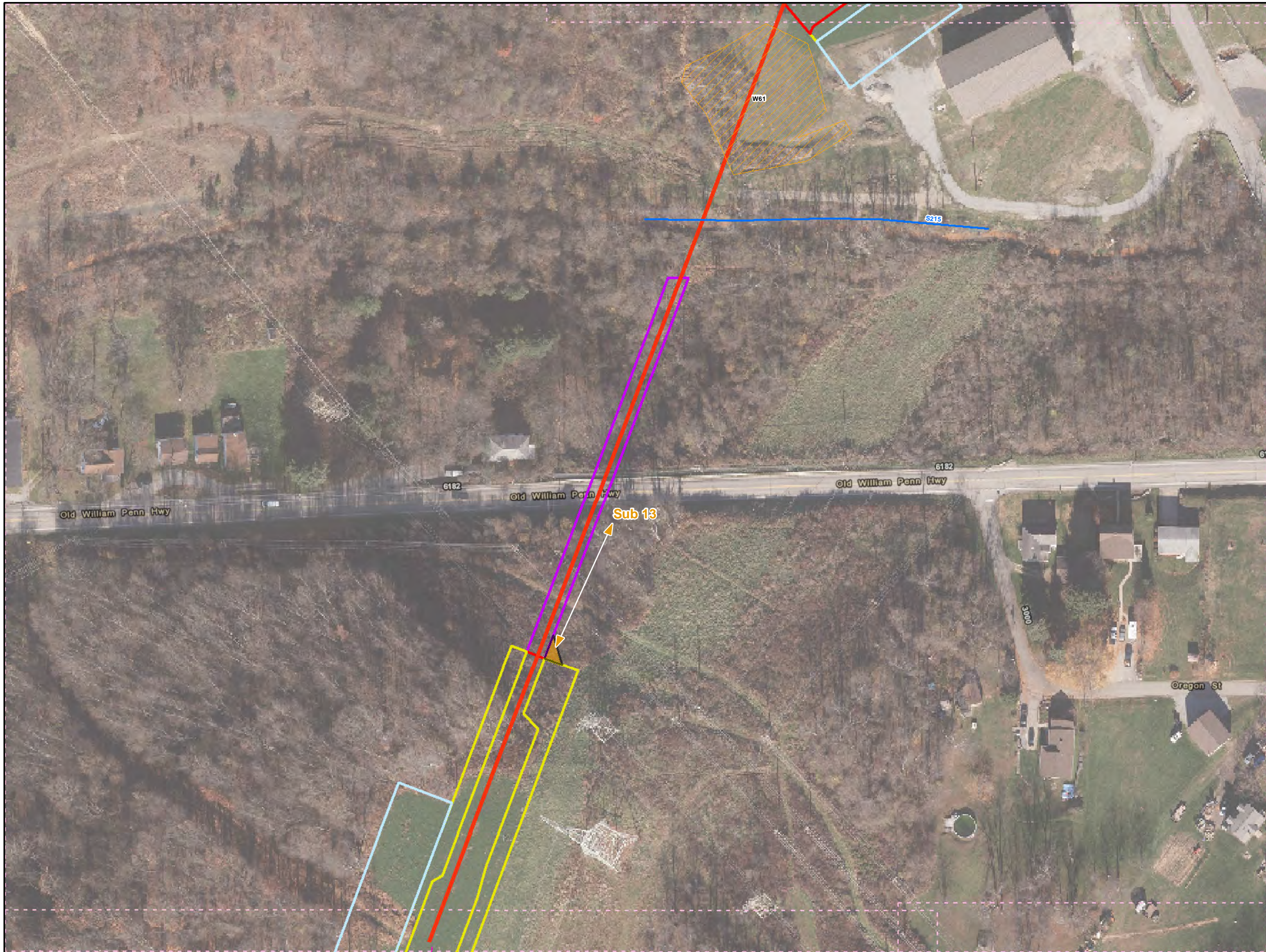


**Workspace Changes for the Sunoco  
Pennsylvania Pipeline Project,  
Westmoreland County, PA.  
105 of 179**

<b>Prepared By:</b> 	<b>Date:</b> <b>10/2016</b>
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Base Map: Sunoco, 2013-2016  
 Roads: ESRI World Imagery Transportation  
 Coordinate System: NAD 83 Stateplane, PA South, Feet

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**Legend**

- Added Workspace
- Removed Workspace
- Proposed 20-inch Pipeline
- Proposed 16-inch Pipeline
- Bore Path
- PPP 1 HDD
- PPP 2 HDD
- Permanent ROW
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- Block Valve Setting LOD
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- Travel LOD
- Travel and Clearing LOD
- Station
- Ephemeral Stream
- Intermittent Stream
- Perennial Stream
- Pond
- PEM
- PFO
- PSS

N

0 50 100 200

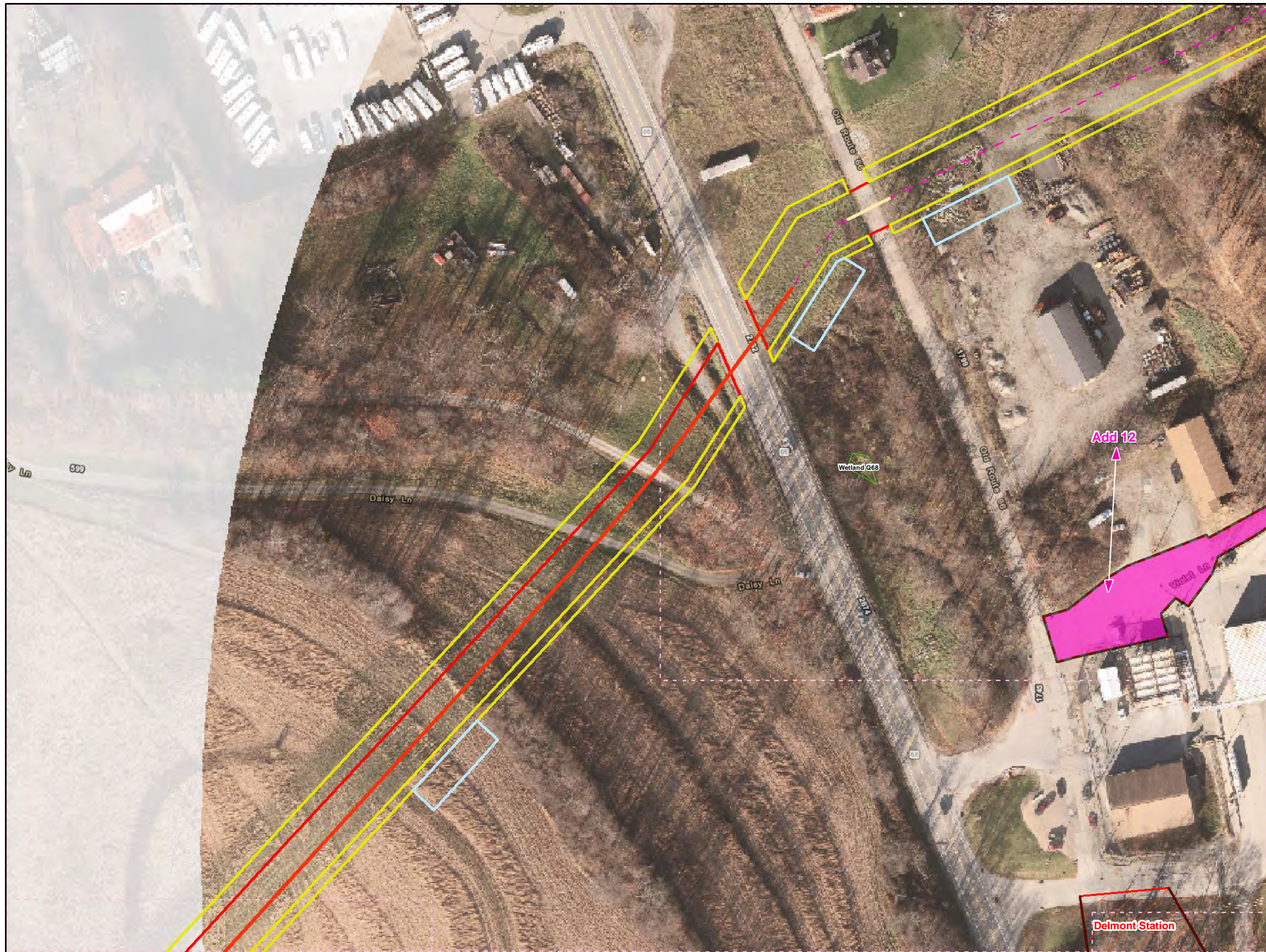
1 inch = 100 feet

**Workspace Changes for the Sunoco Pennsylvania Pipeline Project, Westmoreland County, PA.**  
106 of 179

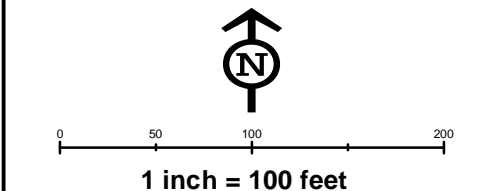
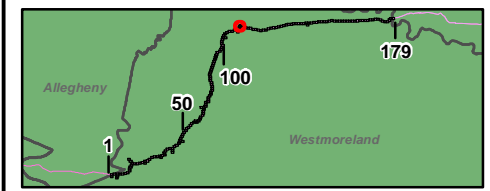
Prepared By:	Date:
<b>TETRA TECH</b>	<b>10/2016</b>

Base Map: Sunoco, 2013-2016  
Roads: ESRI World Imagery Transportation  
Coordinate System: NAD 83 Stateplane, PA South, Feet

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- Legend**
- Added Workspace
  - Removed Workspace
  - Proposed 20-inch Pipeline
  - Proposed 16-inch Pipeline
  - Bore Path
  - PPP 1 HDD
  - PPP 2 HDD
  - Permanent ROW
  - Temporary Workspace
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  - Permanent Access Road
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  - Travel LOD
  - Travel and Clearing LOD
  - Station
  - Ephemeral Stream
  - Intermittent Stream
  - Perennial Stream
  - Pond
  - PEM
  - PFO
  - PSS

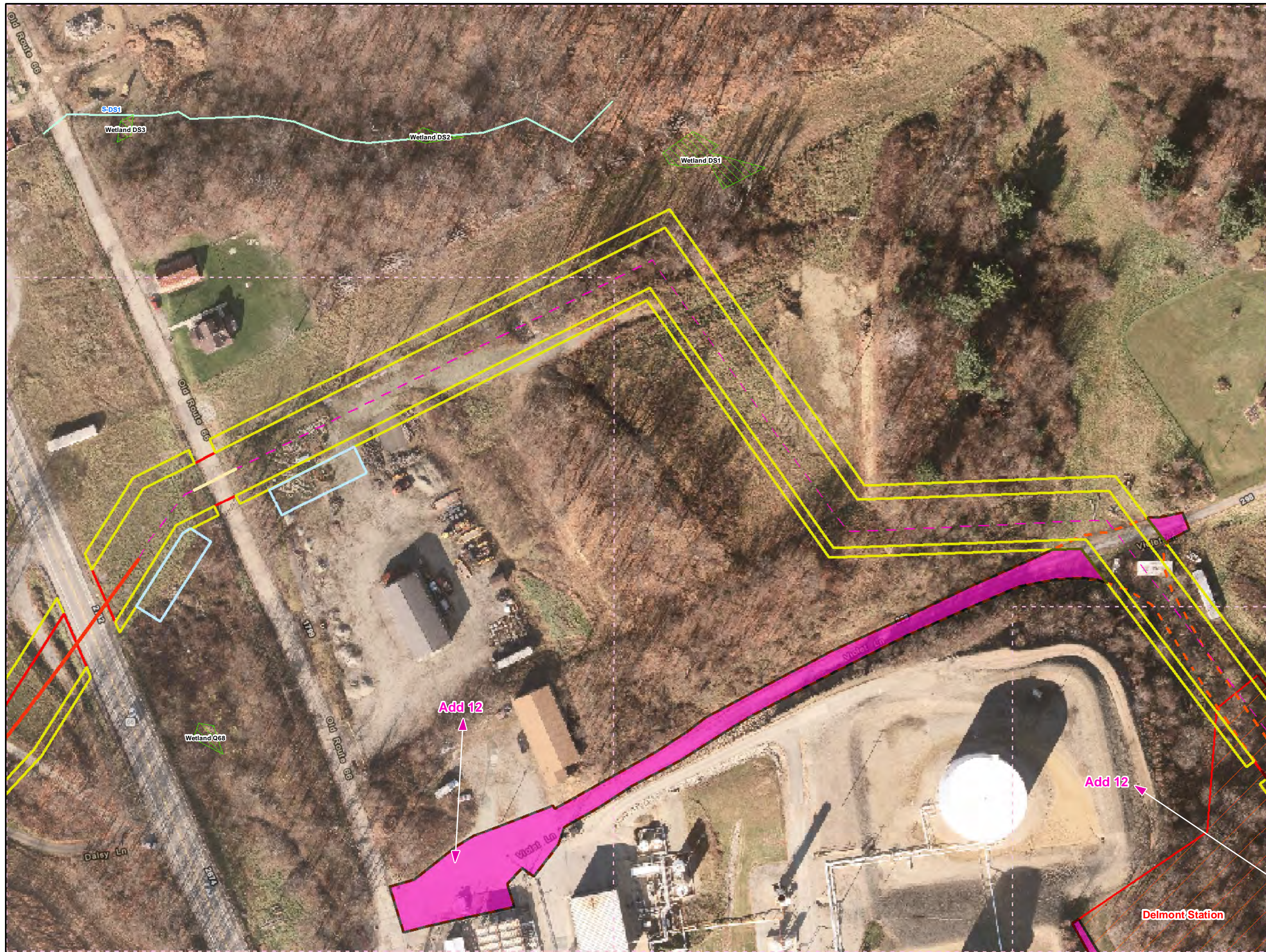


**Workspace Changes for the Sunoco  
Pennsylvania Pipeline Project,  
Westmoreland County, PA.  
115 of 179**

Prepared By: 	Date: <b>10/2016</b>
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Base Map: Sunoco, 2013-2016  
 Roads: ESRI World Imagery Transportation  
 Coordinate System: NAD 83 Stateplane, PA South, Feet

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**Legend**

- Added Workspace
- Removed Workspace
- Proposed 20-inch Pipeline
- Proposed 16-inch Pipeline
- Bore Path
- PPP 1 HDD
- PPP 2 HDD
- Permanent ROW
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- Additional Temporary Workspace or ATWS
- Block Valve Setting LOD
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- Travel LOD
- Travel and Clearing LOD
- Station
- Ephemeral Stream
- Intermittent Stream
- Perennial Stream
- Pond
- PEM
- PFO
- PSS

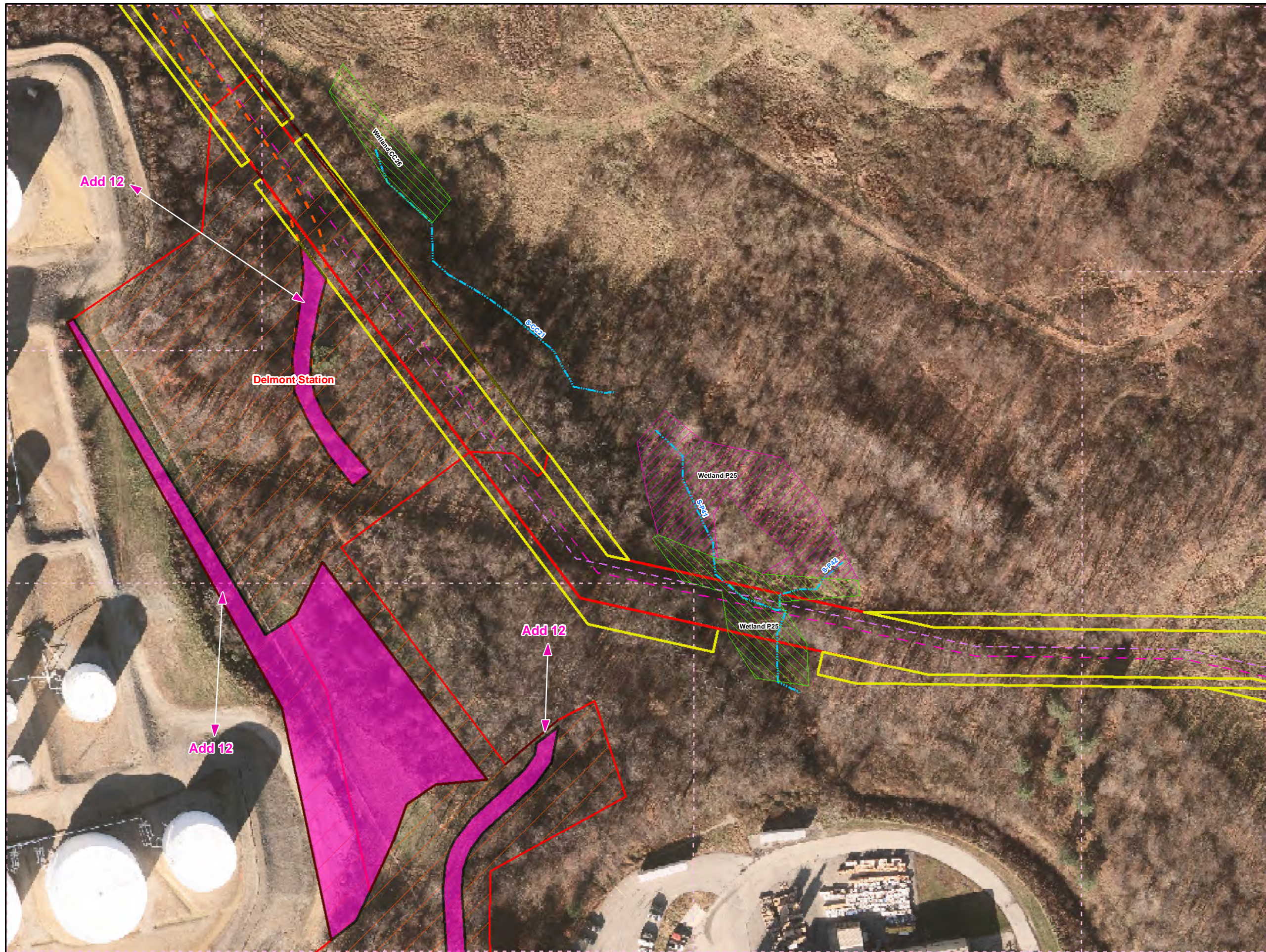
1 inch = 100 feet

**Workspace Changes for the Sunoco Pennsylvania Pipeline Project, Westmoreland County, PA.**  
116 of 179

Prepared By: TETRA TECH	Date: <b>10/2016</b>
----------------------------	-------------------------

Base Map: Sunoco, 2013-2016  
Roads: ESRI World Imagery Transportation  
Coordinate System: NAD 83 Stateplane, PA South, Feet

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**Legend**

- Added Workspace
- Removed Workspace
- Proposed 20-inch Pipeline
- Proposed 16-inch Pipeline
- Bore Path
- PPP 1 HDD
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- Permanent ROW
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- Perennial Stream
- Pond
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- PFO
- PSS

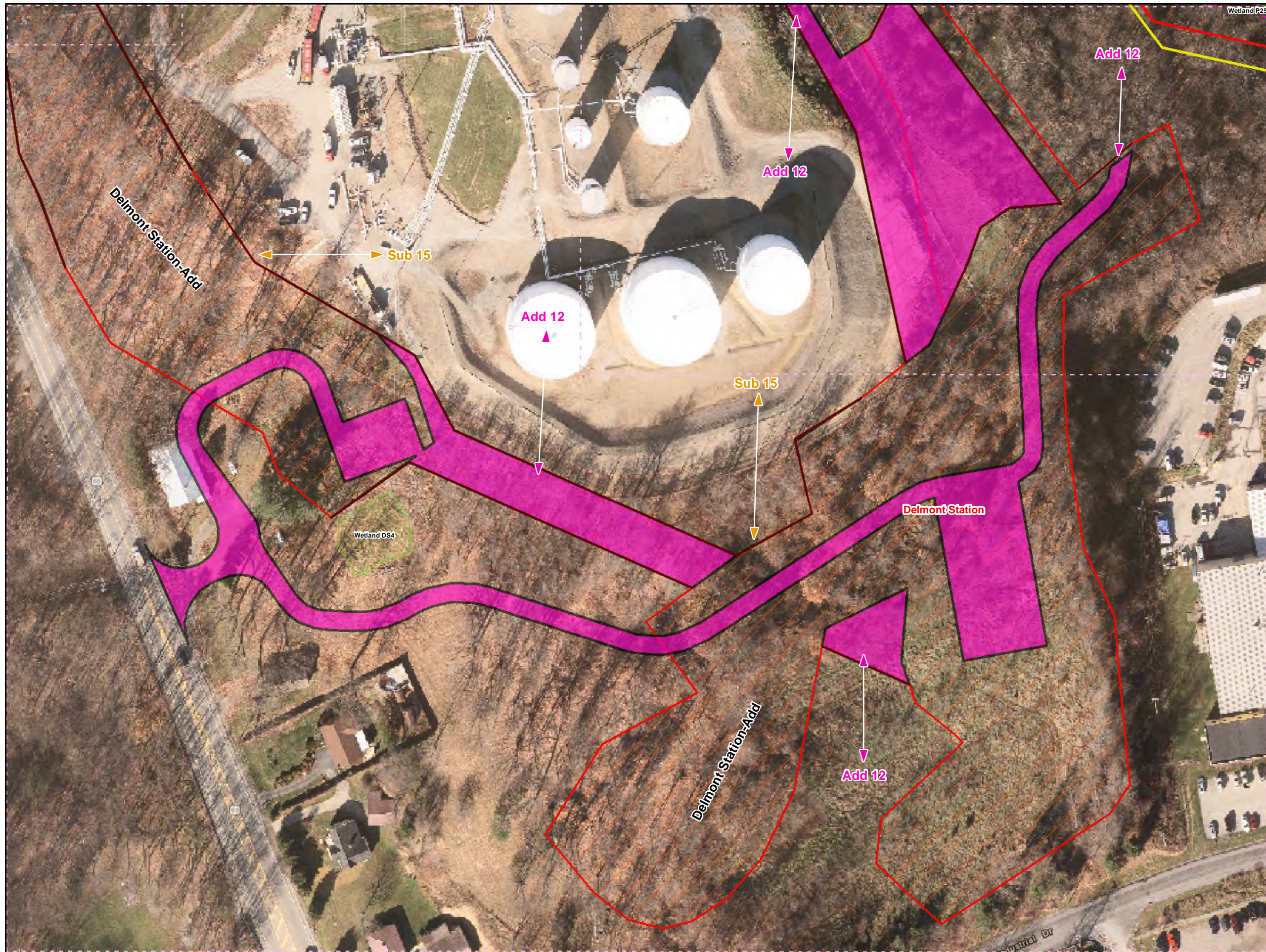
**1 inch = 100 feet**

**Workspace Changes for the Sunoco Pennsylvania Pipeline Project, Westmoreland County, PA.**  
117 of 179

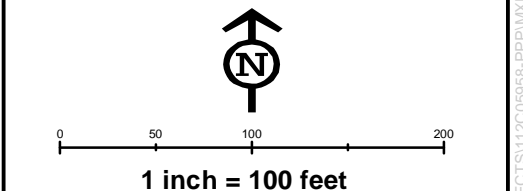
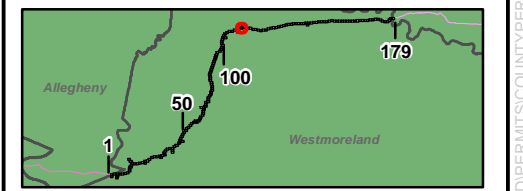
Prepared By:	Date:
TETRA TECH	10/2016

Base Map: Sunoco, 2013-2016  
Roads: ESRI World Imagery Transportation  
Coordinate System: NAD 83 Stateplane, PA South, Feet

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- Legend**
- Added Workspace
  - Removed Workspace
  - Proposed 20-inch Pipeline
  - Proposed 16-inch Pipeline
  - Bore Path
  - PPP 1 HDD
  - PPP 2 HDD
  - Permanent ROW
  - Temporary Workspace
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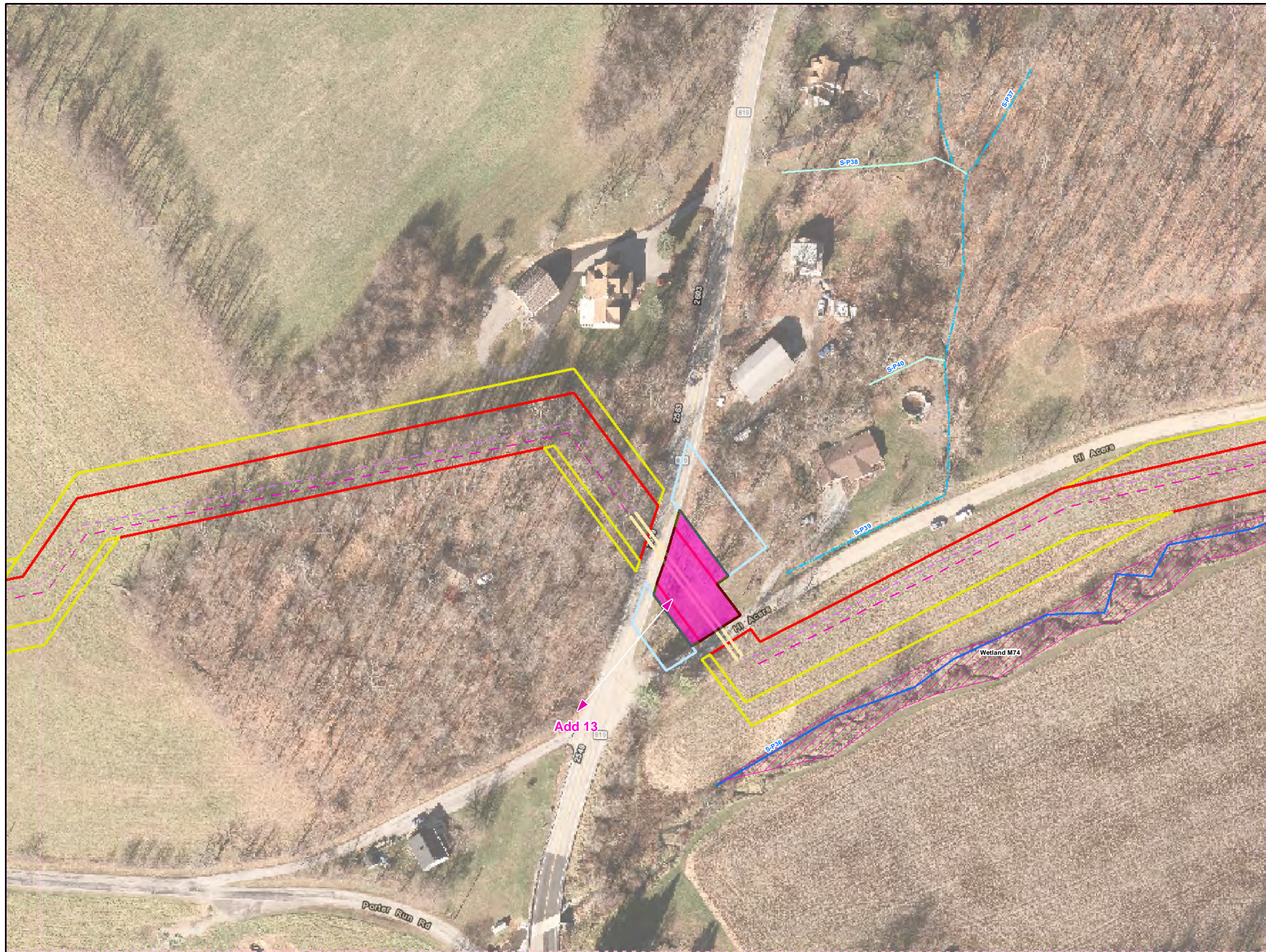


**Workspace Changes for the Sunoco  
Pennsylvania Pipeline Project,  
Westmoreland County, PA.  
118 of 179**

Prepared By: 	Date: <b>10/2016</b>
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Base Map: Sunoco, 2013-2016  
 Roads: ESRI World Imagery Transportation  
 Coordinate System: NAD 83 Stateplane, PA South, Feet

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**Legend**

- Added Workspace
- Removed Workspace
- Proposed 20-inch Pipeline
- Proposed 16-inch Pipeline
- Bore Path
- PPP 1 HDD
- PPP 2 HDD
- Permanent ROW
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- Perennial Stream
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- PFO
- PSS

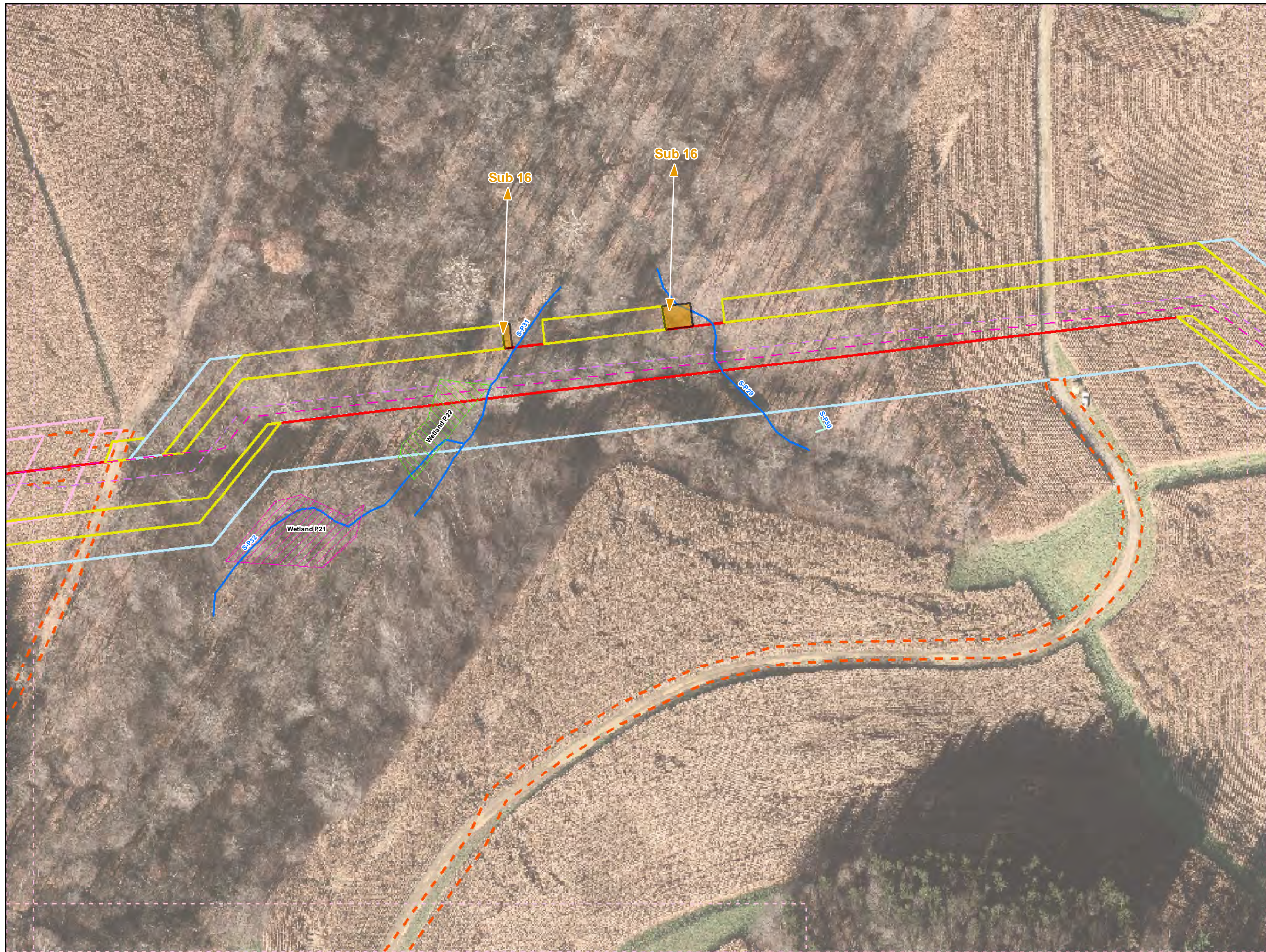
1  
50  
100  
179

**1 inch = 100 feet**

**Workspace Changes for the Sunoco Pennsylvania Pipeline Project, Westmoreland County, PA.**  
131 of 179

Prepared By: 	Date: <b>10/2016</b>
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Base Map: Sunoco, 2013-2016  
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**Legend**

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- Pond
- PEM
- PFO
- PSS

0 50 100 200  
**1 inch = 100 feet**

**Workspace Changes for the Sunoco Pennsylvania Pipeline Project, Westmoreland County, PA.**  
144 of 179

<b>Prepared By:</b> 	<b>Date:</b> <b>10/2016</b>
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Base Map: Sunoco, 2013-2016  
 Roads: ESRI World Imagery Transportation  
 Coordinate System: NAD 83 Stateplane, PA South, Feet

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**Legend**

- Added Workspace
- Removed Workspace
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- Bore Path
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- PFO
- PSS

0 50 100 200  
**1 inch = 100 feet**

Workspace Changes for the Sunoco  
 Pennsylvania Pipeline Project,  
 Westmoreland County, PA.  
 162 of 179

<b>Prepared By:</b> 	<b>Date:</b> <b>10/2016</b>
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Base Map: Sunoco, 2013-2016  
 Roads: ESRI World Imagery Transportation  
 Coordinate System: NAD 83 Stateplane, PA South, Feet

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**Legend**

- Added Workspace
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- Ephemeral Stream
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- PSS

0 50 100 200

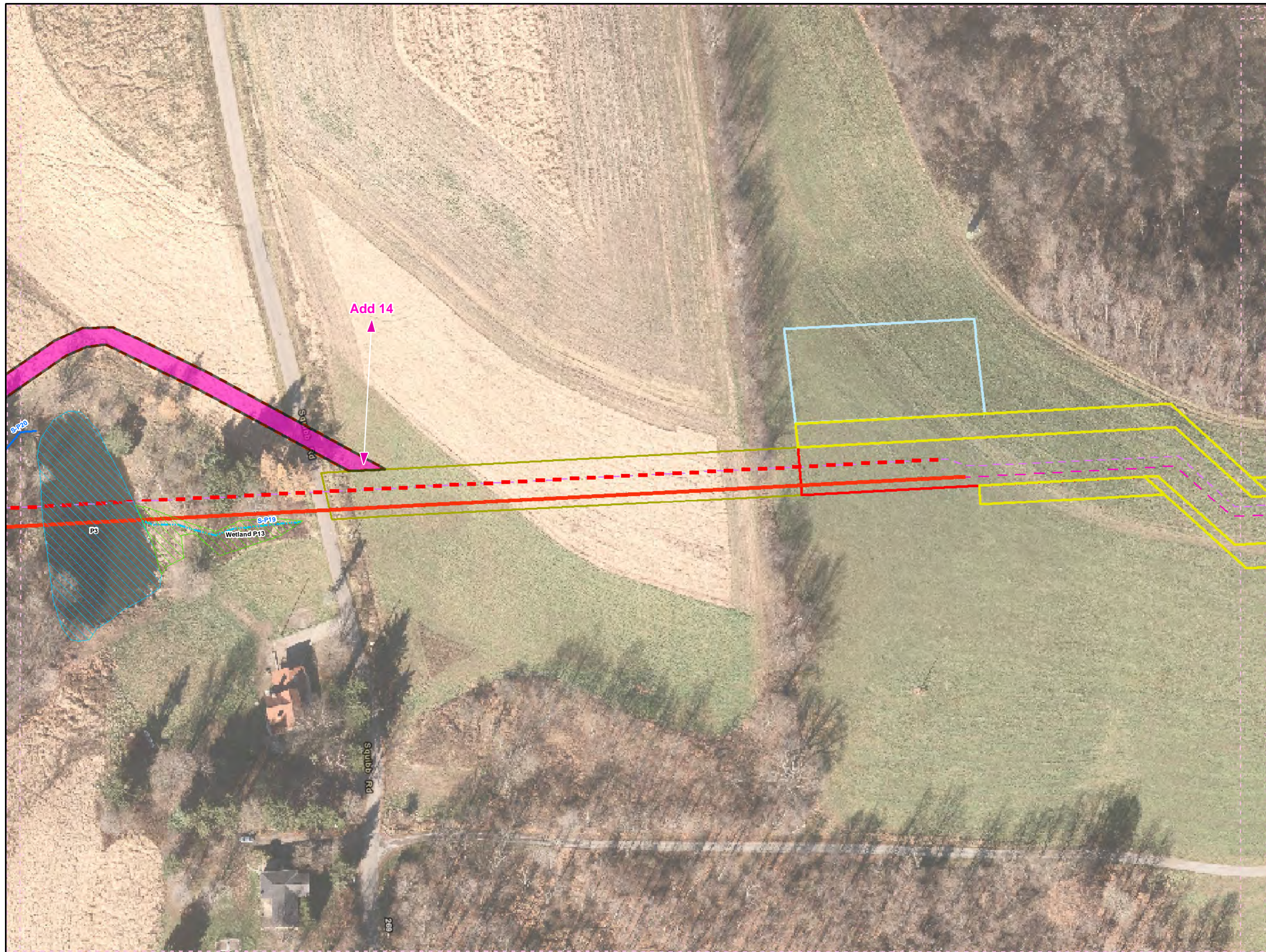
**1 inch = 100 feet**

**Workspace Changes for the Sunoco Pennsylvania Pipeline Project, Westmoreland County, PA.**  
164 of 179

Prepared By: 	Date: <b>10/2016</b>
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Base Map: Sunoco, 2013-2016  
 Roads: ESRI World Imagery Transportation  
 Coordinate System: NAD 83 Stateplane, PA South, Feet

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**Legend**

- Added Workspace
- Removed Workspace
- Proposed 20-inch Pipeline
- Proposed 16-inch Pipeline
- Bore Path
- PPP 1 HDD
- PPP 2 HDD
- Permanent ROW
- Temporary Workspace
- Additional Temporary Workspace or ATWS
- Block Valve Setting LOD
- Permanent Access Road
- Temporary Access Road
- Travel LOD
- Travel and Clearing LOD
- Station
- Ephemeral Stream
- Intermittent Stream
- Perennial Stream
- Pond
- PEM
- PFO
- PSS

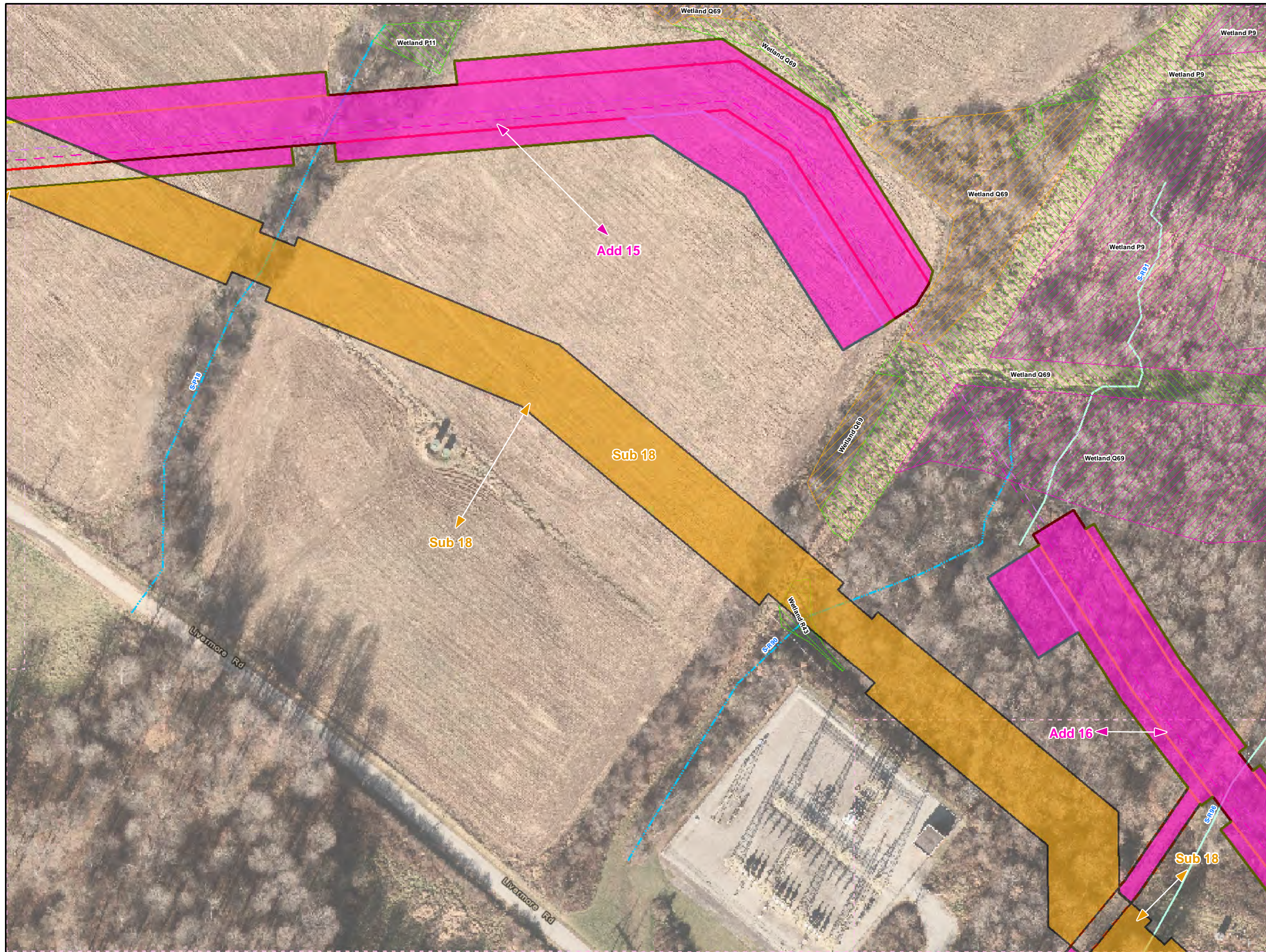
0 50 100 200  
**1 inch = 100 feet**

**Workspace Changes for the Sunoco Pennsylvania Pipeline Project, Westmoreland County, PA.**  
165 of 179

Prepared By: 	Date: <b>10/2016</b>
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Base Map: Sunoco, 2013-2016  
 Roads: ESRI World Imagery Transportation  
 Coordinate System: NAD 83 Stateplane, PA South, Feet





**Legend**

- Added Workspace
- Removed Workspace
- Proposed 20-inch Pipeline
- Proposed 16-inch Pipeline
- Bore Path
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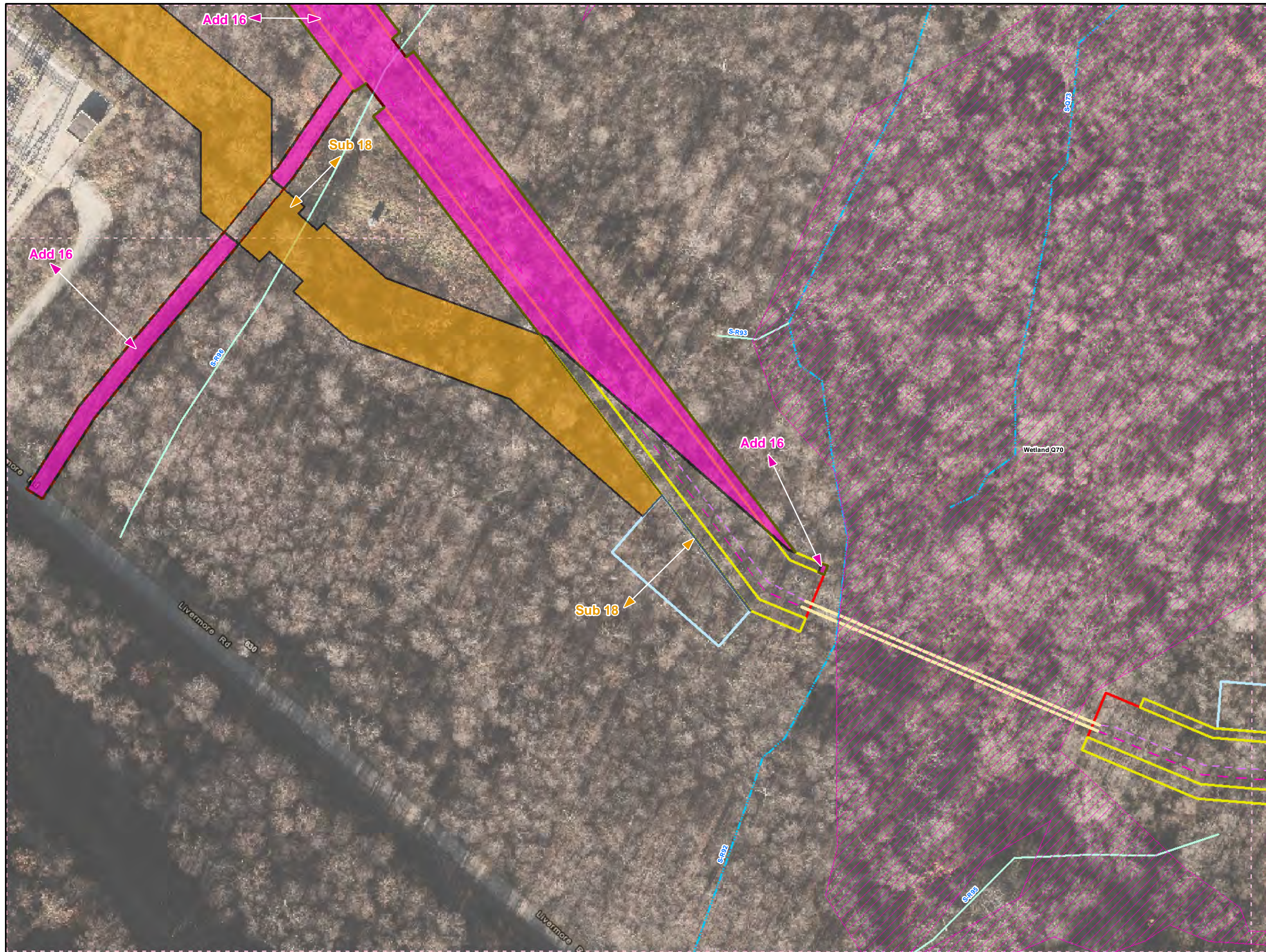
1 inch = 100 feet

**Workspace Changes for the Sunoco Pennsylvania Pipeline Project, Westmoreland County, PA.**  
173 of 179

<b>Prepared By:</b> 	<b>Date:</b> 10/2016
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Base Map: Sunoco, 2013-2016  
Roads: ESRI World Imagery Transportation  
Coordinate System: NAD 83 Stateplane, PA South, Feet

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**Legend**

- Added Workspace
- Removed Workspace
- Proposed 20-inch Pipeline
- Proposed 16-inch Pipeline
- Bore Path
- PPP 1 HDD
- PPP 2 HDD
- Permanent ROW
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- Intermittent Stream
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- Pond
- PEM
- PFO
- PSS

1 inch = 100 feet

**Workspace Changes for the Sunoco Pennsylvania Pipeline Project, Westmoreland County, PA.**  
174 of 179

Prepared By: <b>TETRA TECH</b>	Date: <b>10/2016</b>
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Base Map: Sunoco, 2013-2016  
Roads: ESRI World Imagery Transportation  
Coordinate System: NAD 83 Stateplane, PA South, Feet

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SPLP has had revisions to the proposed workspaces in Indiana County since submittal of the Chapter 105 and 102 Permit Applications in March 2016. These revisions have been the result of landowner requests, agency requests, the avoidance of sensitive species or their habitats, and/or to further reduce impacts to aquatic resources. The additions and subtractions to the workspaces are listed and quantified within Table 1. In addition, this attachment highlights the location and extent of these additions and subtractions to the workspaces on a set of site plans. Each addition/subtraction has been assigned an identification code and that code is reflected below and on the set of site plans. The additions and subtractions are listed from west to east. A total of approximately 0.2225 acres was added and 0.2214 acres subtracted for a net increase of 0.0011 acres of earth disturbance.

**Table 1. Pennsylvania Pipeline Project LOD Additions and Subtractions.**

CHANGE ID	COUNTY	REASON FOR CHANGE	ACREAGE	LOD ADDITION OR SUBTRACTION	WETLAND DELINEATION <sup>1</sup>	PNDI EVALUATION <sup>2</sup>	SHEET NUMBER
Sub-19	INDIANA	Minor LOD adjustment to avoid waterbody impact	0.0382	Subtraction	NA	NA	2
Add-17	INDIANA	Minor LOD adjustment needed to facilitate safe installation	0.1648	Addition	Yes	Yes	3
Add-18	INDIANA	Minor LOD adjustment needed to facilitate safe installation	0.0577	Addition	Yes	Yes	24
Sub-20	INDIANA	Temporary access road adjustment to avoid wetland impact	0.0708	Subtraction	NA	NA	24
Sub-21	INDIANA	Minimized temporary workspace to decrease impacts	0.0436	Subtraction	NA	NA	39
Sub-22	INDIANA	Minor LOD adjustment to minimize wetland impact	0.0124	Subtraction	NA	NA	64
Sub-23	INDIANA	Minor LOD adjustment to minimize waterbody impact	0.0075	Subtraction	NA	NA	78
Sub-24	INDIANA	Minor LOD adjustment to minimize waterbody impact	0.0489	Subtraction	NA	NA	81

1 – The added area was field investigated for aquatic resources. Not applicable is listed for LOD subtractions.

2 – The added area was originally evaluated for PNDI. Not applicable is listed for LOD subtractions.



**Legend**

- Added Workspace
- Removed Workspace
- Proposed 20-inch Pipeline
- Proposed 16-inch Pipeline
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- Perennial Stream
- Pond
- PEM
- PFO
- PSS

1                      50                      83

Indiana  
Westmoreland

N

0      50      100      200

1 inch = 100 feet

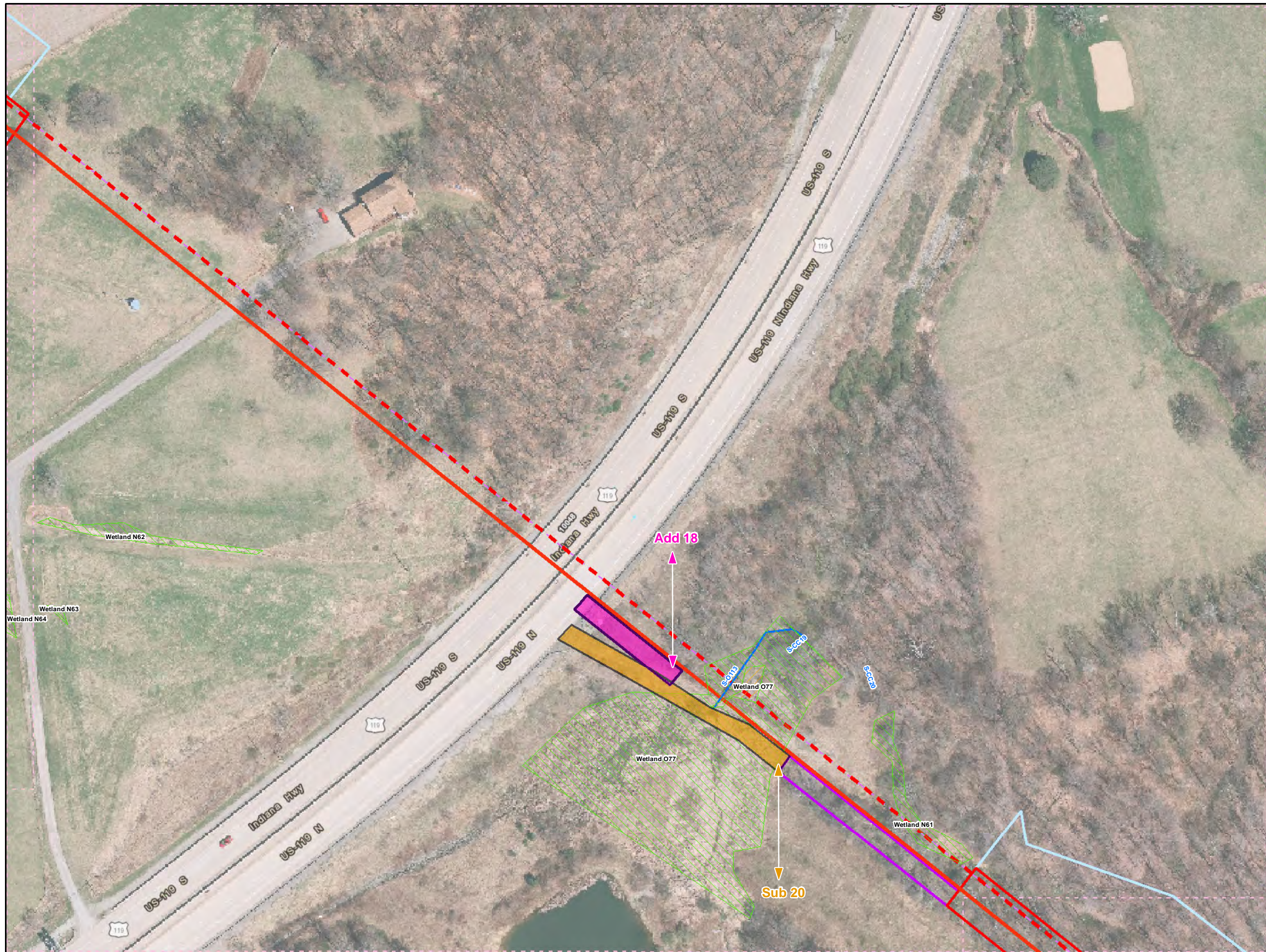
**Workspace Changes for the Sunoco Pennsylvania Pipeline Project, Indiana County, PA.**

2 of 83

<b>Prepared By:</b> 	<b>Date:</b> <b>10/2016</b>
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Base Map: Sunoco, 2013-2016  
 Roads: ESRI World Imagery Transportation  
 Coordinate System: NAD 83 Stateplane, PA South, Feet





**Legend**

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- PFO
- PSS

1 inch = 100 feet

**Workspace Changes for the Sunoco Pennsylvania Pipeline Project, Indiana County, PA.**  
24 of 83

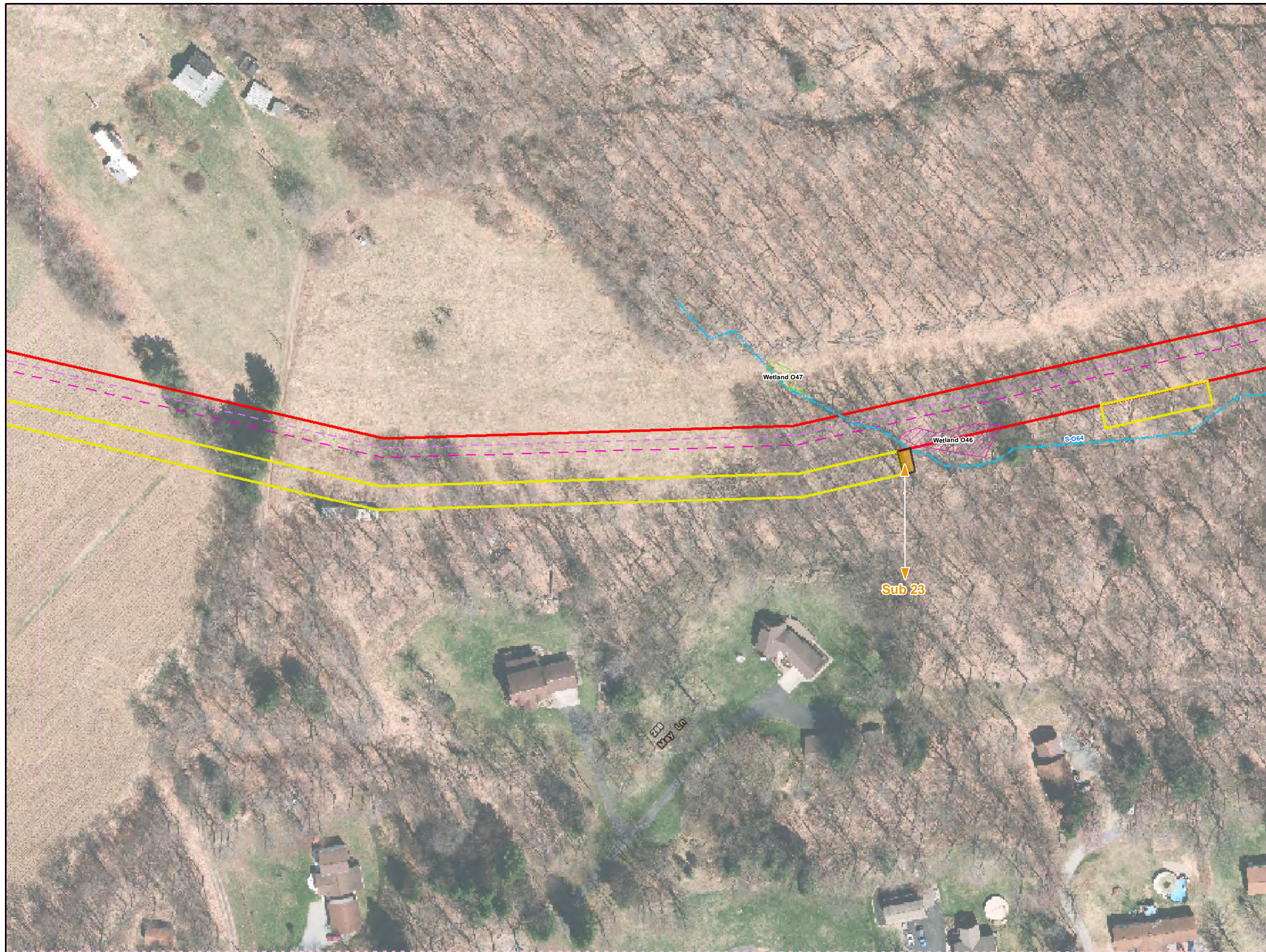
Prepared By: TETRA TECH	Date: <b>10/2016</b>
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Base Map: Sunoco, 2013-2016  
Roads: ESRI World Imagery Transportation  
Coordinate System: NAD 83 Stateplane, PA South, Feet

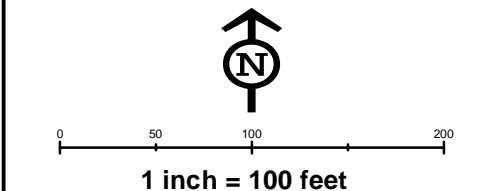
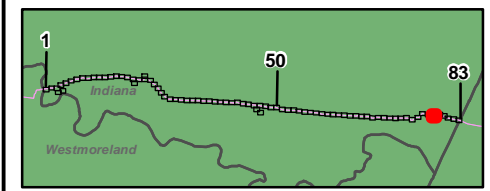
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- Legend**
- Added Workspace
  - Removed Workspace
  - Proposed 20-inch Pipeline
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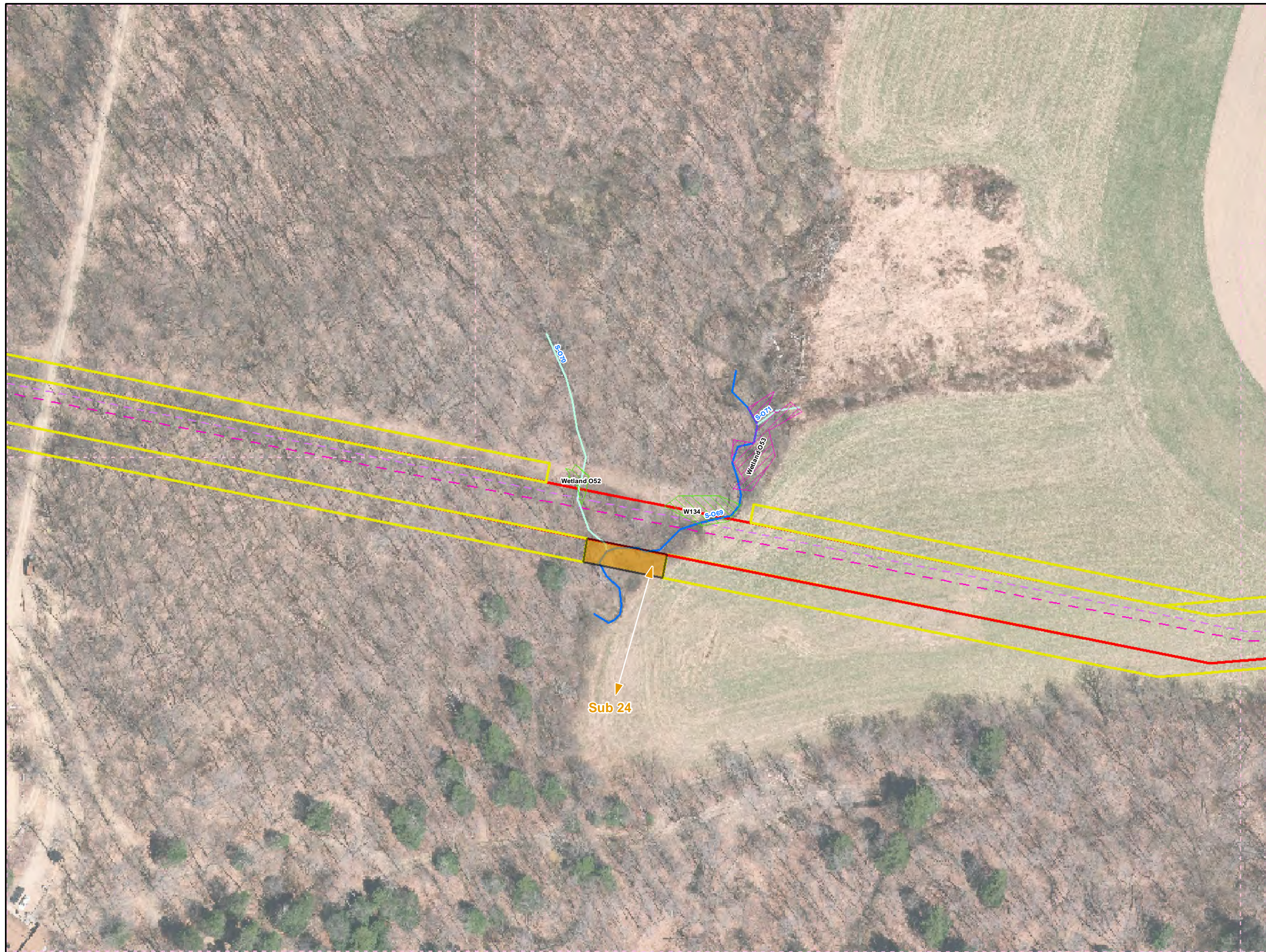


**Workspace Changes for the Sunoco  
Pennsylvania Pipeline Project,  
Indiana County, PA.  
78 of 83**

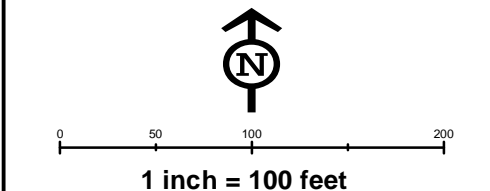
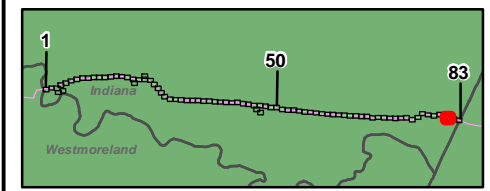
<b>Prepared By:</b> 	<b>Date:</b> <b>10/2016</b>
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Base Map: Sunoco, 2013-2016  
 Roads: ESRI World Imagery Transportation  
 Coordinate System: NAD 83 Stateplane, PA South, Feet

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- Legend**
- Added Workspace
  - Removed Workspace
  - Proposed 20-inch Pipeline
  - Proposed 16-inch Pipeline
  - Bore Path
  - PPP 1 HDD
  - PPP 2 HDD
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**Workspace Changes for the Sunoco  
Pennsylvania Pipeline Project,  
Indiana County, PA.  
81 of 83**

Prepared By: 	Date: <b>10/2016</b>
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Base Map: Sunoco, 2013-2016  
 Roads: ESRI World Imagery Transportation  
 Coordinate System: NAD 83 Stateplane, PA South, Feet

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SPLP has had revisions to the proposed workspaces in Cambria County since submittal of the Chapter 105 and 102 Permit Applications in March 2016. These revisions have been the result of landowner requests, agency requests, the avoidance of sensitive species or their habitats, and/or to further reduce impacts to aquatic resources. The additions and subtractions to the workspaces are listed and quantified within Table 1. In addition, this attachment highlights the location and extent of these additions and subtractions to the workspaces on a set of site plans. Each addition/subtraction has been assigned an identification code and that code is reflected below and on the set of site plans. The additions and subtractions are listed from west to east. A total of approximately 3.5769 acres was added and 4.0413 acres subtracted for a net decrease of 0.4644 acres of earth disturbance.

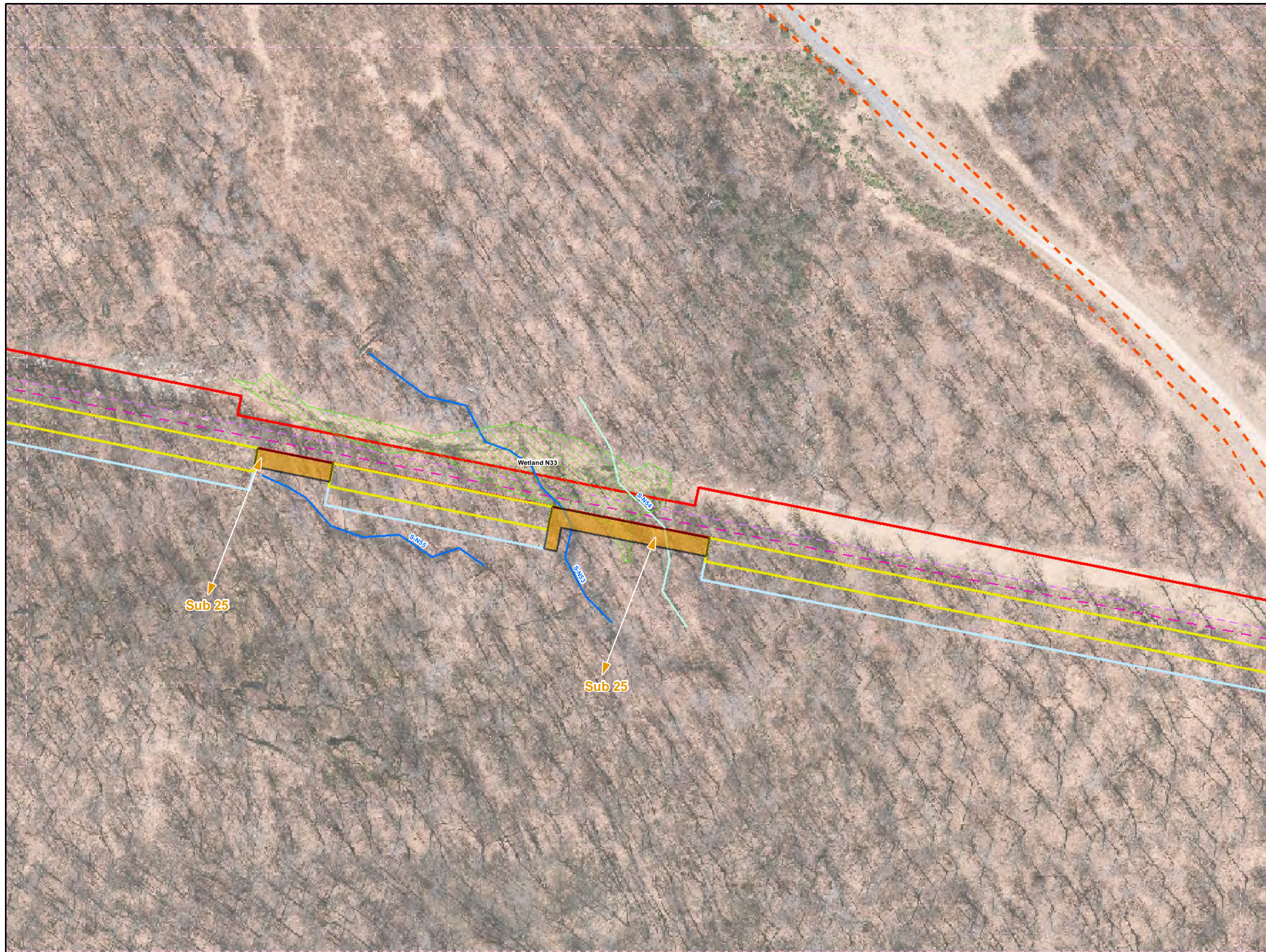
**Table 1. Pennsylvania Pipeline Project LOD Additions and Subtractions.**

CHANGE ID	COUNTY	REASON FOR CHANGE	ACREAGE	LOD ADDITION OR SUBTRACTION	WETLAND DELINEATION <sup>1</sup>	PNDI EVALUATION <sup>2</sup>	SHEET NUMBER
Sub-25	CAMBRIA	LOD adjustment to minimize aquatic resource impact	0.1222	Subtraction	NA	NA	11
Sub-27	CAMBRIA	LOD adjustment to minimize aquatic resource impact	0.0647	Subtraction	NA	NA	13
Add-19	CAMBRIA	Minor LOD adjustment needed to facilitate safe installation	0.0177	Addition	Yes	Yes	14
Sub-26	CAMBRIA	LOD adjustment to minimize aquatic resource impact	0.0135	Subtraction	NA	NA	16
Sub-28	CAMBRIA	LOD adjustment to minimize aquatic resource impact	0.0683	Subtraction	NA	NA	16
Sub-29	CAMBRIA	Temporary workspace no longer necessary	0.032	Subtraction	NA	NA	31
Sub-30	CAMBRIA	LOD adjustment to minimize aquatic resource impact	0.0807	Subtraction	NA	NA	39
Sub-31	CAMBRIA	LOD adjustment to minimize aquatic resource impact	0.0047	Subtraction	NA	NA	41
Sub-32	CAMBRIA	Minor LOD adjustment needed to facilitate safe installation	0.0481	Subtraction	NA	NA	45

<b>CHANGE ID</b>	<b>COUNTY</b>	<b>REASON FOR CHANGE</b>	<b>ACREAGE</b>	<b>LOD ADDITION OR SUBTRACTION</b>	<b>WETLAND DELINEATION<sup>1</sup></b>	<b>PNDI EVALUATION<sup>2</sup></b>	<b>SHEET NUMBER</b>
Sub-33	CAMBRIA	LOD adjustment to minimize aquatic resource impact	0.0023	Subtraction	NA	NA	61
Sub-34	CAMBRIA	LOD adjustment to minimize aquatic resource impact	0.0062	Subtraction	NA	NA	61
Sub-35	CAMBRIA	LOD adjustment to minimize aquatic resource impact	0.007	Subtraction	NA	NA	61
Add-20	CAMBRIA	Minor LOD adjustment needed to facilitate safe installation	0.0544	Addition	Yes	Yes	63
Add-21	CAMBRIA	Minor LOD adjustment needed to facilitate safe installation	0.06	Addition	Yes	Yes	63
Sub-36	CAMBRIA	Minor LOD adjustment needed to facilitate safe installation	0.0033	Subtraction	NA	NA	66
Add-22	CAMBRIA	LOD adjustment needed to facilitate safe installation	3.4448	Addition	Yes	Yes	78
Sub-37	CAMBRIA	LOD adjustment needed to facilitate safe installation	3.5883	Subtraction	NA	NA	78

1 – The added area was field investigated for aquatic resources. Not applicable is listed for LOD subtractions.

2 – The added area was originally evaluated for PNDI. Not applicable is listed for LOD subtractions.



**Legend**

- Added Workspace
- Removed Workspace
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- Proposed 16-inch Pipeline
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- Perennial Stream
- Pond
- PEM
- PFO
- PSS

1  
50  
101

0 50 100 200

**1 inch = 100 feet**

**Workspace Changes for the Sunoco  
Pennsylvania Pipeline Project,  
Cambria County, PA.  
11 of 101**

<b>Prepared By:</b> 	<b>Date:</b> <b>10/2016</b>
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Base Map: Sunoco, 2013-2016  
 Roads: ESRI World Imagery Transportation  
 Coordinate System: NAD 83 Stateplane, PA South, Feet

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**Legend**

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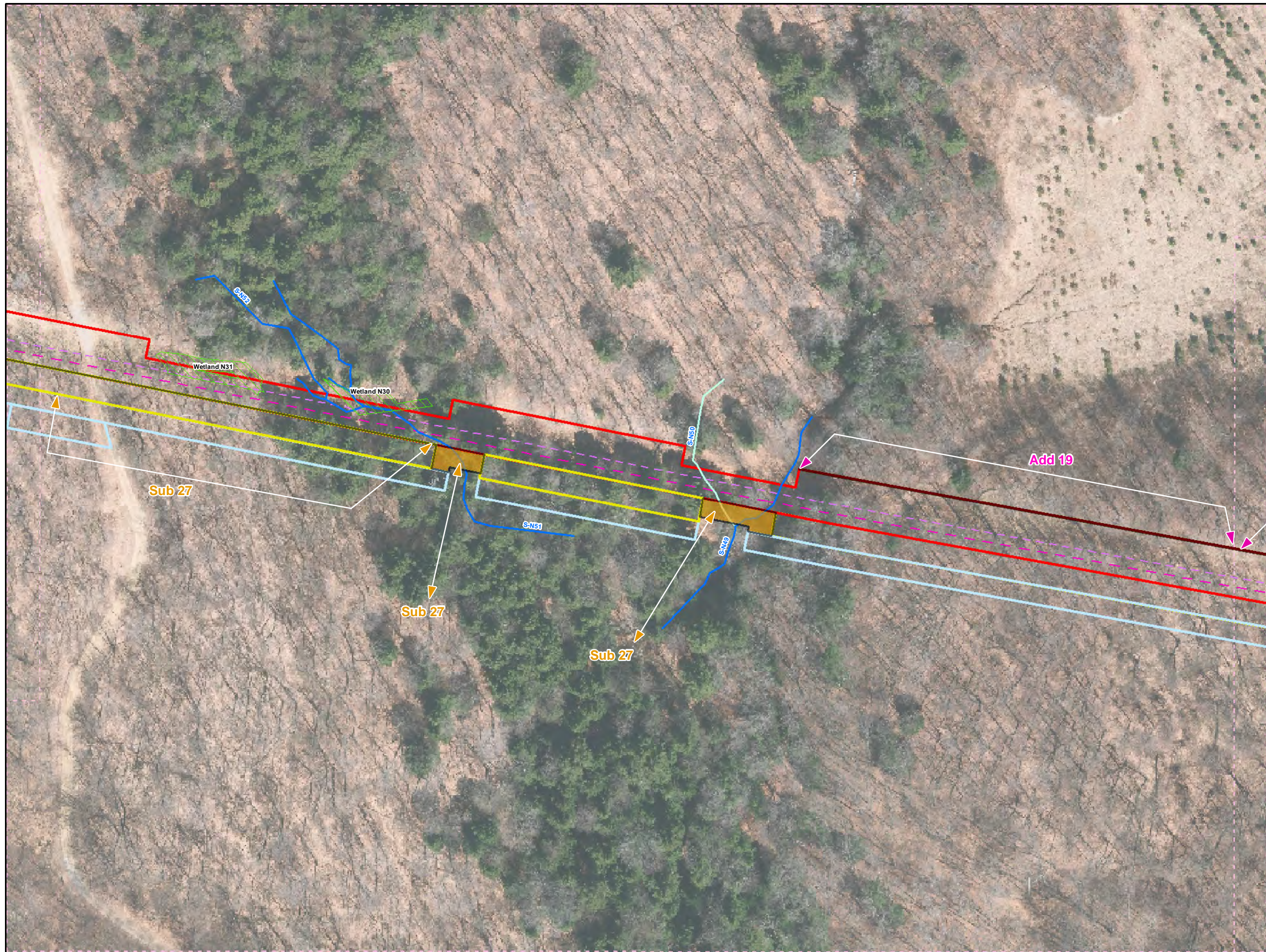
**1 inch = 100 feet**

**Workspace Changes for the Sunoco Pennsylvania Pipeline Project, Cambria County, PA.**  
13 of 101

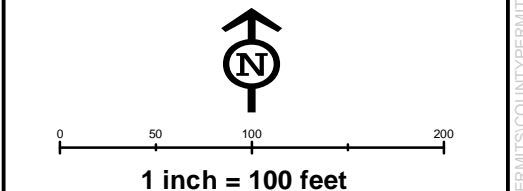
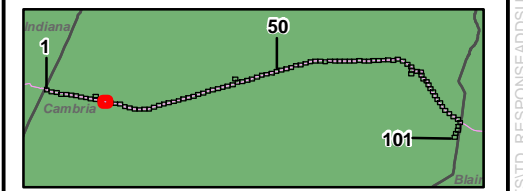
<b>Prepared By:</b> TETRA TECH	<b>Date:</b> 10/2016
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Base Map: Sunoco, 2013-2016  
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- Legend**
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**Workspace Changes for the Sunoco  
Pennsylvania Pipeline Project,  
Cambria County, PA.**  
14 of 101

Prepared By: TETRA TECH	Date: <b>10/2016</b>
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Base Map: Sunoco, 2013-2016  
Roads: ESRI World Imagery Transportation  
Coordinate System: NAD 83 Stateplane, PA South, Feet

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**Legend**

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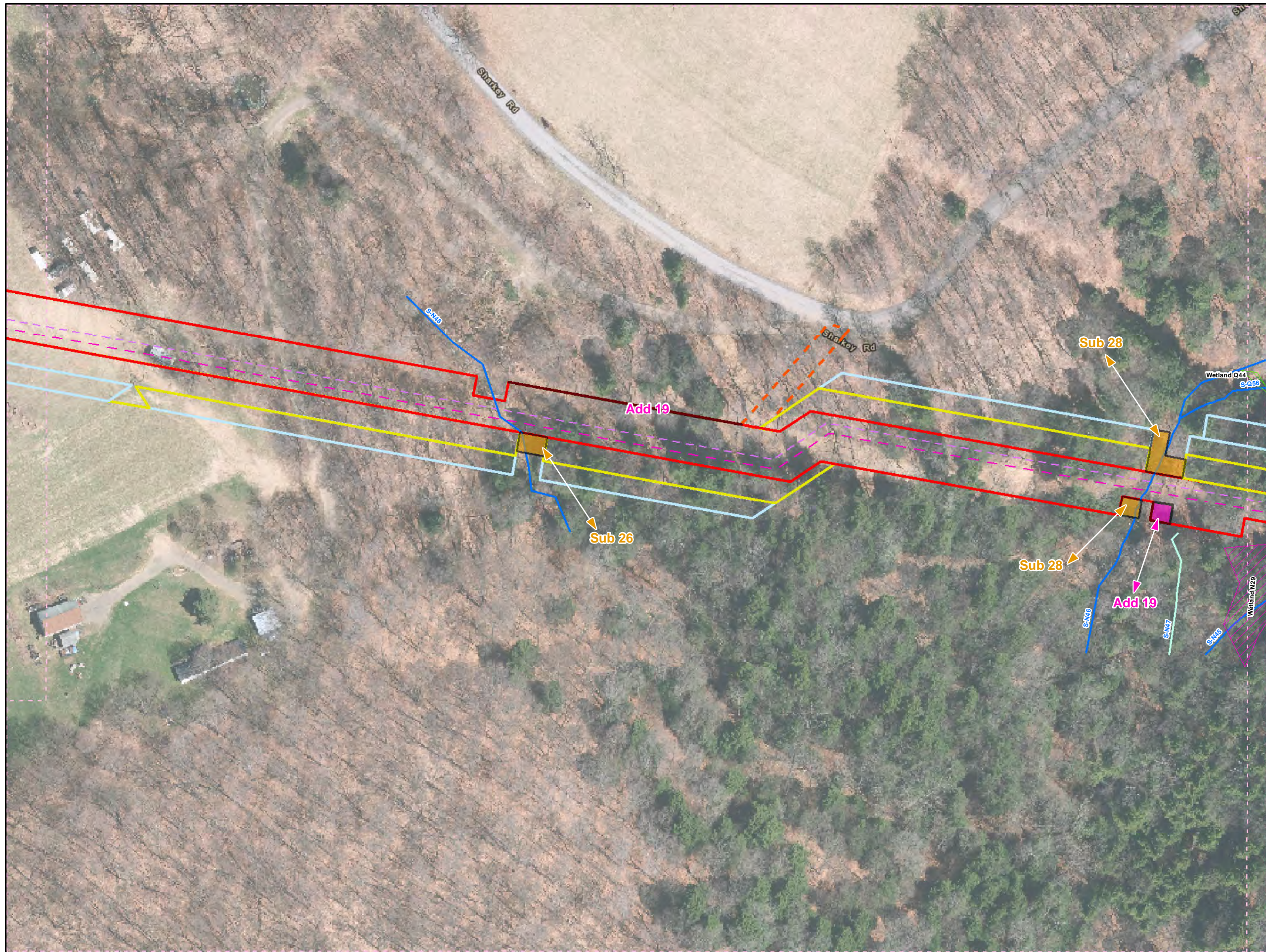
**1 inch = 100 feet**

**Workspace Changes for the Sunoco Pennsylvania Pipeline Project, Cambria County, PA.**  
15 of 101

<b>Prepared By:</b> 	<b>Date:</b> <b>10/2016</b>
-------------------------	--------------------------------

Base Map: Sunoco, 2013-2016  
 Roads: ESRI World Imagery Transportation  
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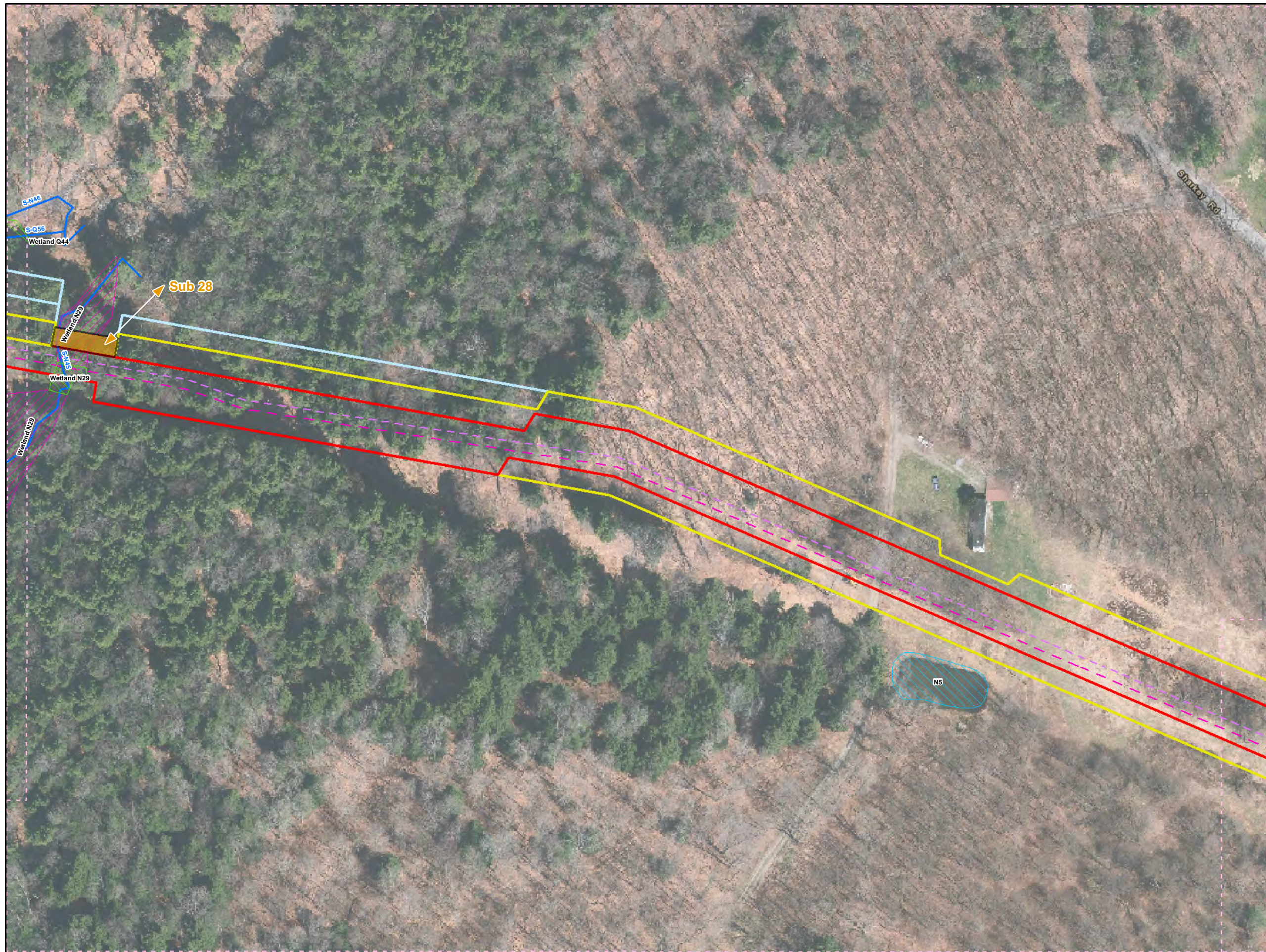
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Workspace Changes for the Sunoco  
 Pennsylvania Pipeline Project,  
 Cambria County, PA.  
 16 of 101

Prepared By: 	Date: <b>10/2016</b>
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Base Map: Sunoco, 2013-2016  
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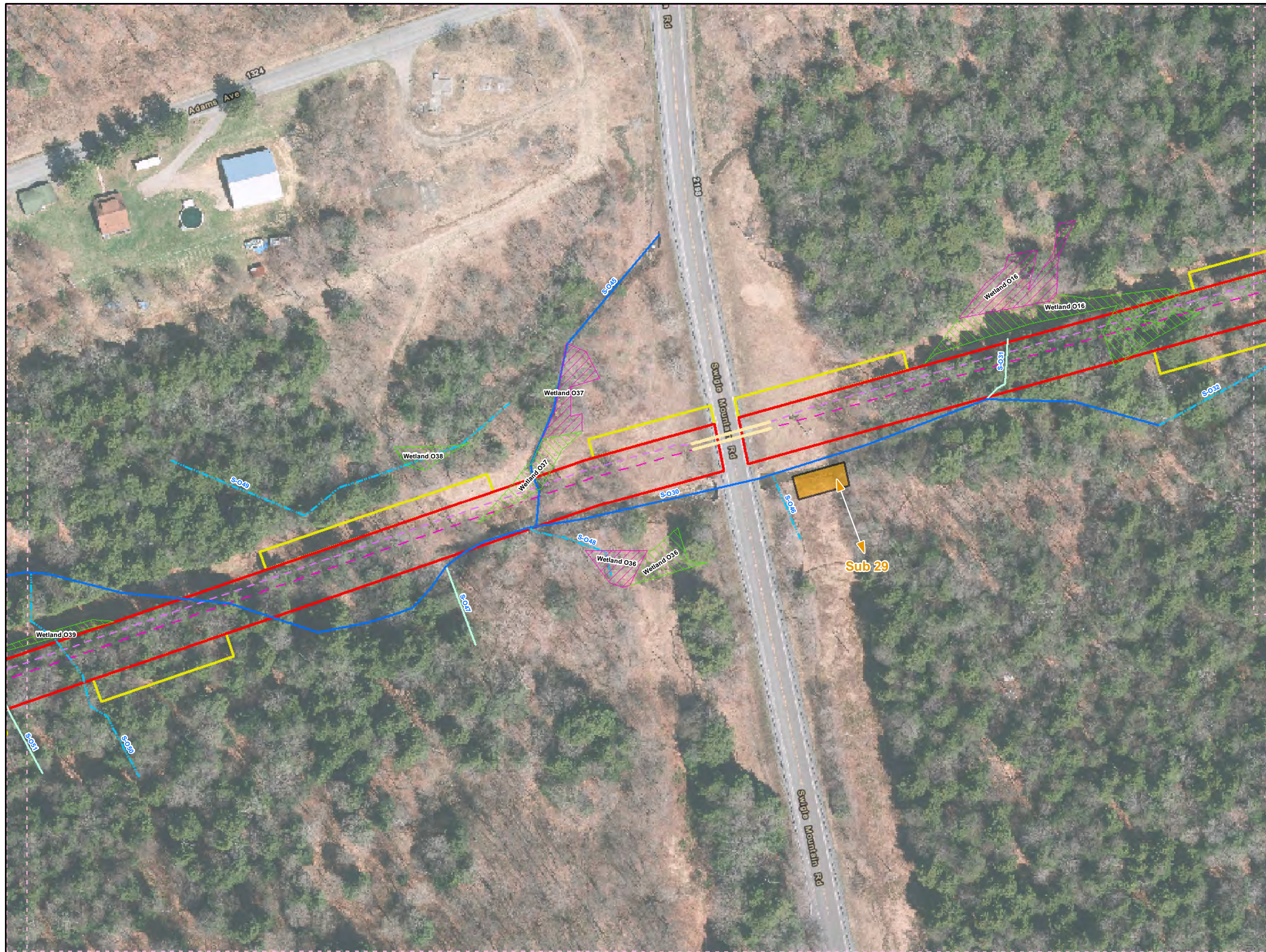
**1 inch = 100 feet**

**Workspace Changes for the Sunoco Pennsylvania Pipeline Project, Cambria County, PA.**  
17 of 101

<b>Prepared By:</b> 	<b>Date:</b> <b>10/2016</b>
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Base Map: Sunoco, 2013-2016  
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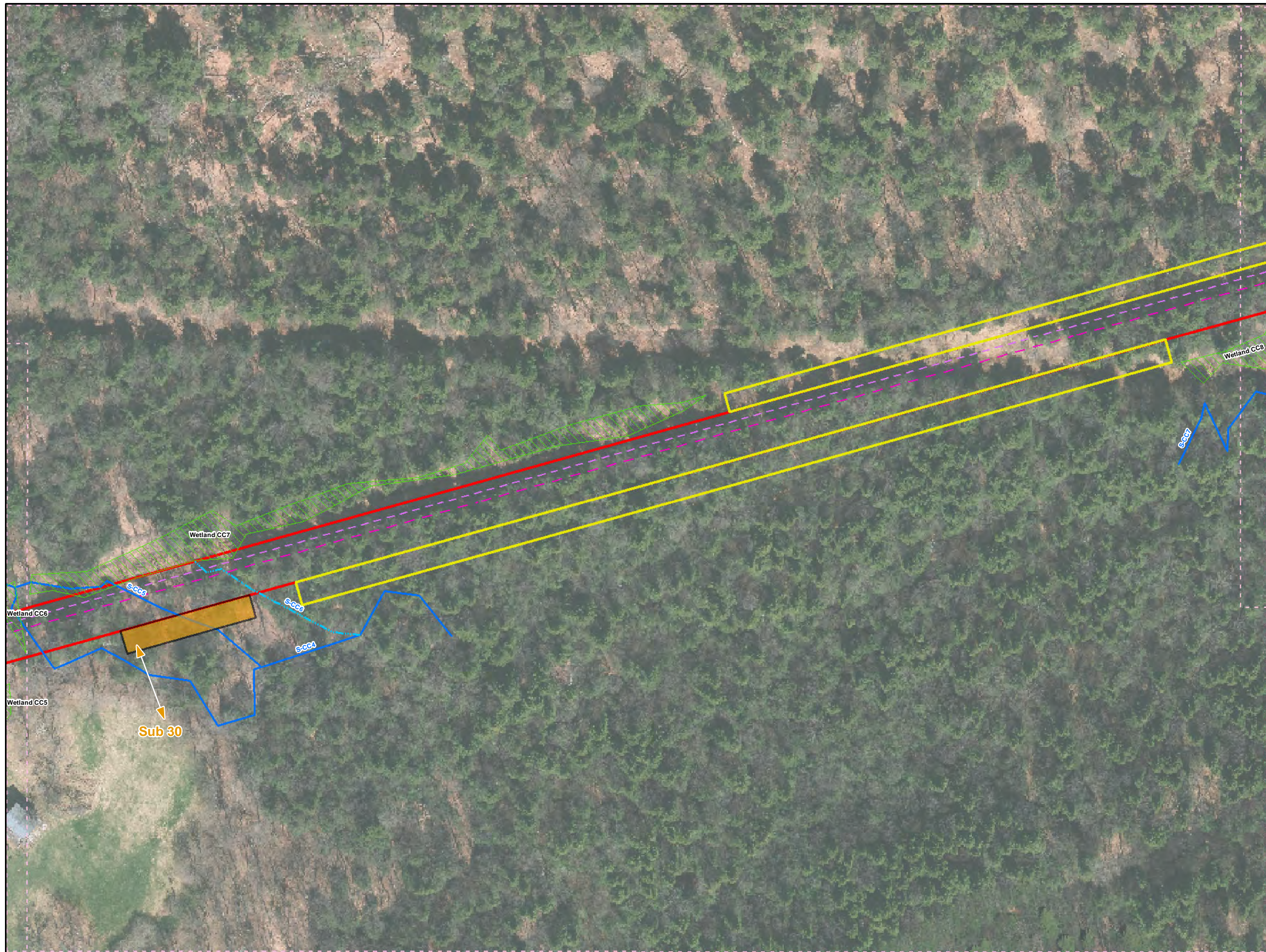
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1 inch = 100 feet

**Workspace Changes for the Sunoco Pennsylvania Pipeline Project, Cambria County, PA.**  
31 of 101

Prepared By:	Date:
	10/2016

Base Map: Sunoco, 2013-2016  
Roads: ESRI World Imagery Transportation  
Coordinate System: NAD 83 Stateplane, PA South, Feet

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0    50    100    200

**1 inch = 100 feet**

**Workspace Changes for the Sunoco Pennsylvania Pipeline Project, Cambria County, PA.**  
39 of 101

Prepared By:	Date:
<b>TETRA TECH</b>	<b>10/2016</b>

Base Map: Sunoco, 2013-2016  
Roads: ESRI World Imagery Transportation  
Coordinate System: NAD 83 Stateplane, PA South, Feet

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1 inch = 100 feet

0 50 100 200

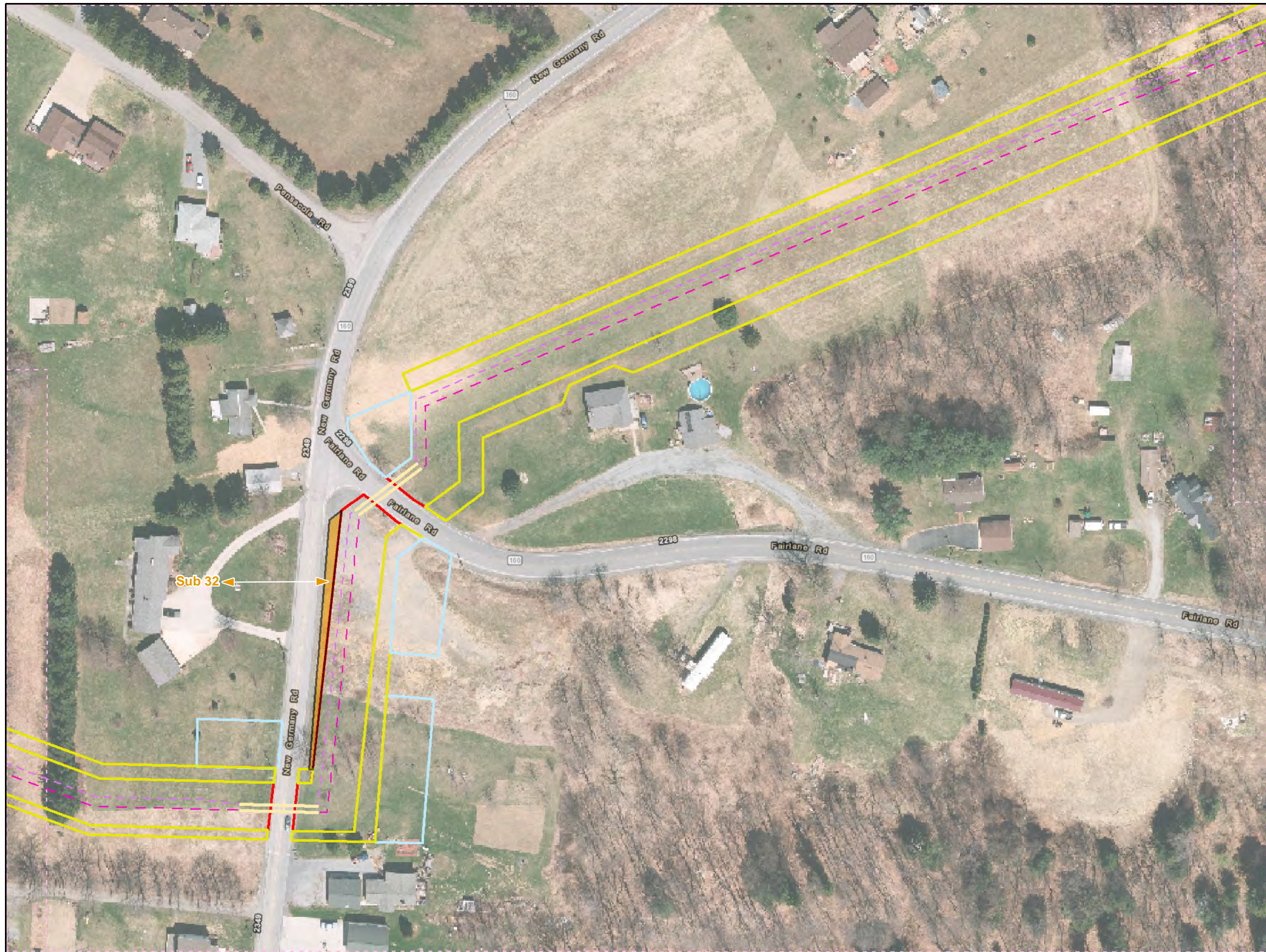
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**Workspace Changes for the Sunoco Pennsylvania Pipeline Project, Cambria County, PA.**  
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Prepared By: 	Date: <b>10/2016</b>
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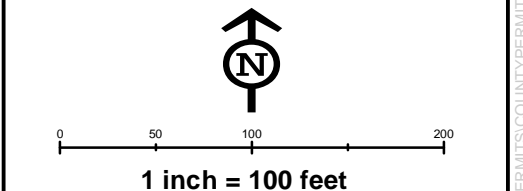
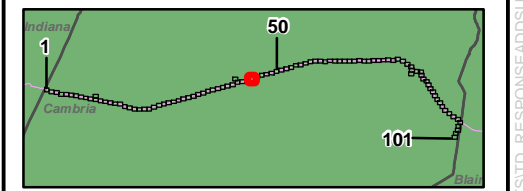
Base Map: Sunoco, 2013-2016  
 Roads: ESRI World Imagery Transportation  
 Coordinate System: NAD 83 Stateplane, PA South, Feet

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Sub 32

- Legend**
- Added Workspace
  - Removed Workspace
  - Proposed 20-inch Pipeline
  - Proposed 16-inch Pipeline
  - Bore Path
  - PPP 1 HDD
  - PPP 2 HDD
  - Permanent ROW
  - Temporary Workspace
  - Additional Temporary Workspace or ATWS
  - Block Valve Setting LOD
  - Permanent Access Road
  - Temporary Access Road
  - Travel LOD
  - Travel and Clearing LOD
  - Station
  - Ephemeral Stream
  - Intermittent Stream
  - Perennial Stream
  - Pond
  - PEM
  - PFO
  - PSS

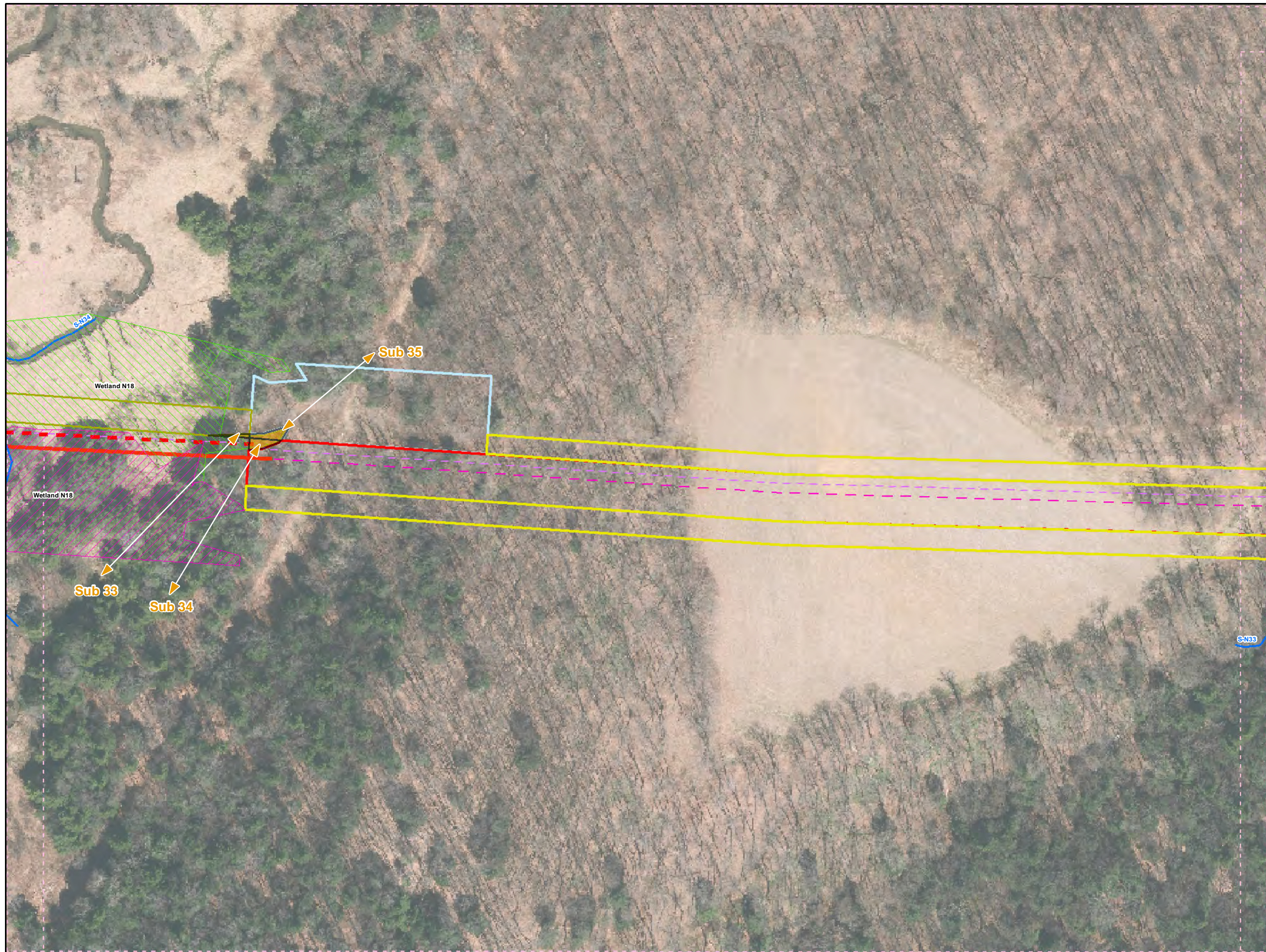


**Workspace Changes for the Sunoco  
Pennsylvania Pipeline Project,  
Cambria County, PA.  
45 of 101**

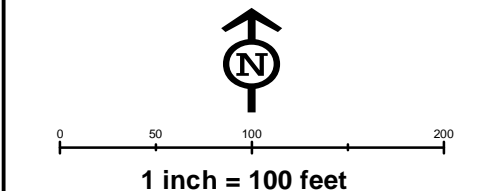
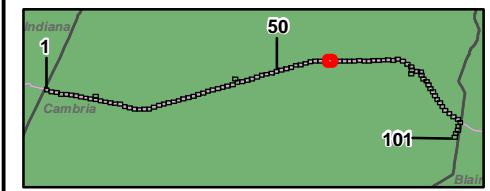
Prepared By: 	Date: <b>10/2016</b>
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Base Map: Sunoco, 2013-2016  
 Roads: ESRI World Imagery Transportation  
 Coordinate System: NAD 83 Stateplane, PA South, Feet

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- Legend**
- Added Workspace
  - Removed Workspace
  - Proposed 20-inch Pipeline
  - Proposed 16-inch Pipeline
  - Bore Path
  - PPP 1 HDD
  - PPP 2 HDD
  - Permanent ROW
  - Temporary Workspace
  - Additional Temporary Workspace or ATWS
  - Block Valve Setting LOD
  - Permanent Access Road
  - Temporary Access Road
  - Travel LOD
  - Travel and Clearing LOD
  - Station
  - Ephemeral Stream
  - Intermittent Stream
  - Perennial Stream
  - Pond
  - PEM
  - PFO
  - PSS

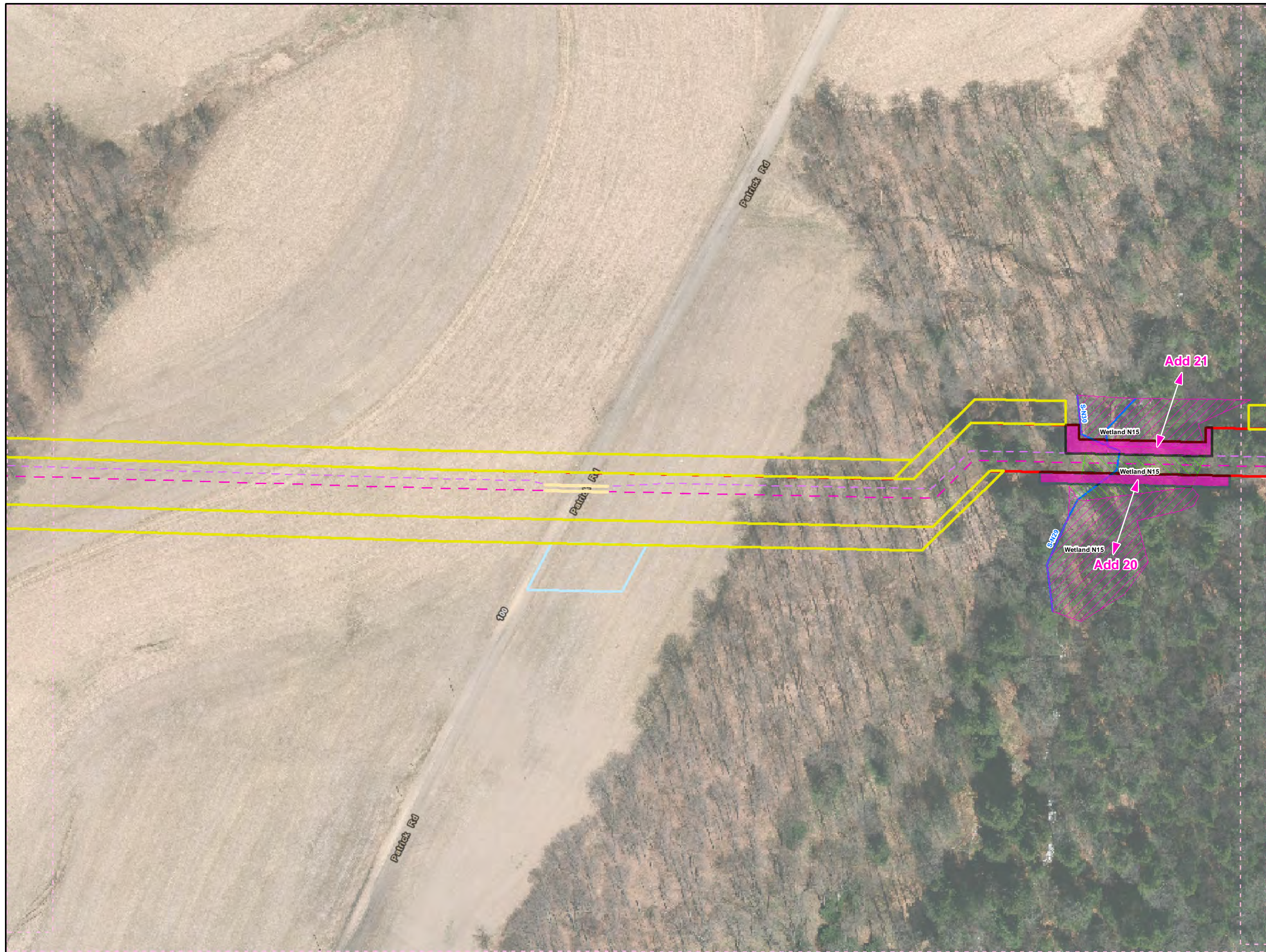


**Workspace Changes for the Sunoco  
Pennsylvania Pipeline Project,  
Cambria County, PA.**  
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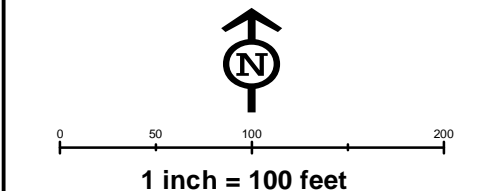
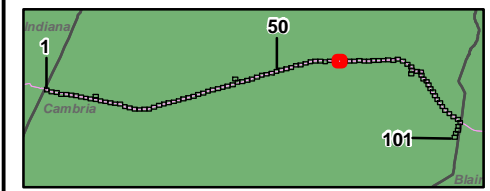
Prepared By: <b>TETRA TECH</b>	Date: <b>10/2016</b>
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Base Map: Sunoco, 2013-2016  
Roads: ESRI World Imagery Transportation  
Coordinate System: NAD 83 Stateplane, PA South, Feet

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- Legend**
- Added Workspace
  - Removed Workspace
  - Proposed 20-inch Pipeline
  - Proposed 16-inch Pipeline
  - Bore Path
  - PPP 1 HDD
  - PPP 2 HDD
  - Permanent ROW
  - Temporary Workspace
  - Additional Temporary Workspace or ATWS
  - Block Valve Setting LOD
  - Permanent Access Road
  - Temporary Access Road
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  - Travel and Clearing LOD
  - Station
  - Ephemeral Stream
  - Intermittent Stream
  - Perennial Stream
  - Pond
  - PEM
  - PFO
  - PSS

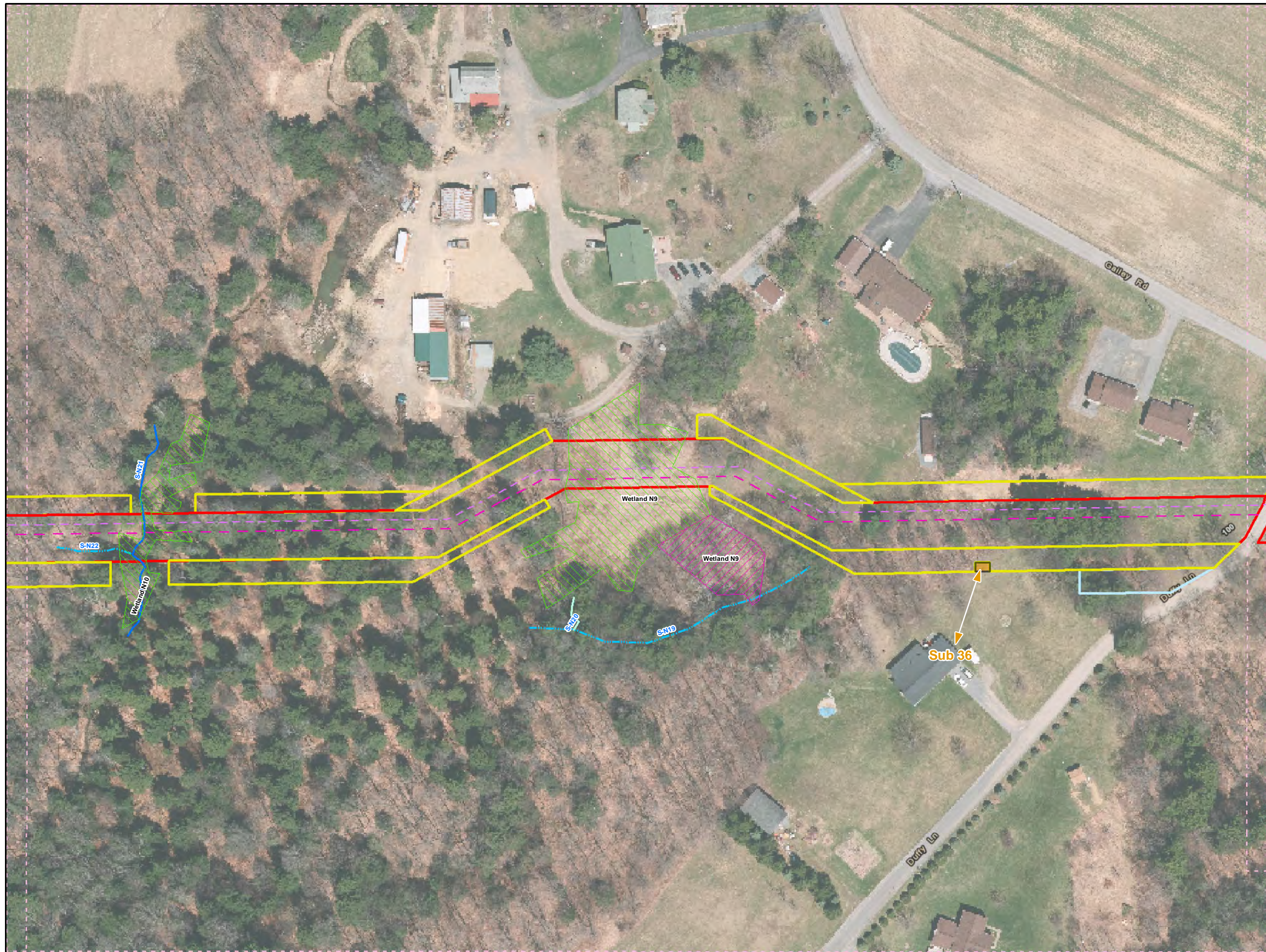


**Workspace Changes for the Sunoco  
Pennsylvania Pipeline Project,  
Cambria County, PA.**  
63 of 101

Prepared By: <b>TETRA TECH</b>	Date: <b>10/2016</b>
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Base Map: Sunoco, 2013-2016  
Roads: ESRI World Imagery Transportation  
Coordinate System: NAD 83 Stateplane, PA South, Feet

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**Legend**

- Added Workspace
- Removed Workspace
- Proposed 20-inch Pipeline
- Proposed 16-inch Pipeline
- Bore Path
- PPP 1 HDD
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- Pond
- PEM
- PFO
- PSS

0 50 100 200

**1 inch = 100 feet**

**Workspace Changes for the Sunoco Pennsylvania Pipeline Project, Cambria County, PA.**

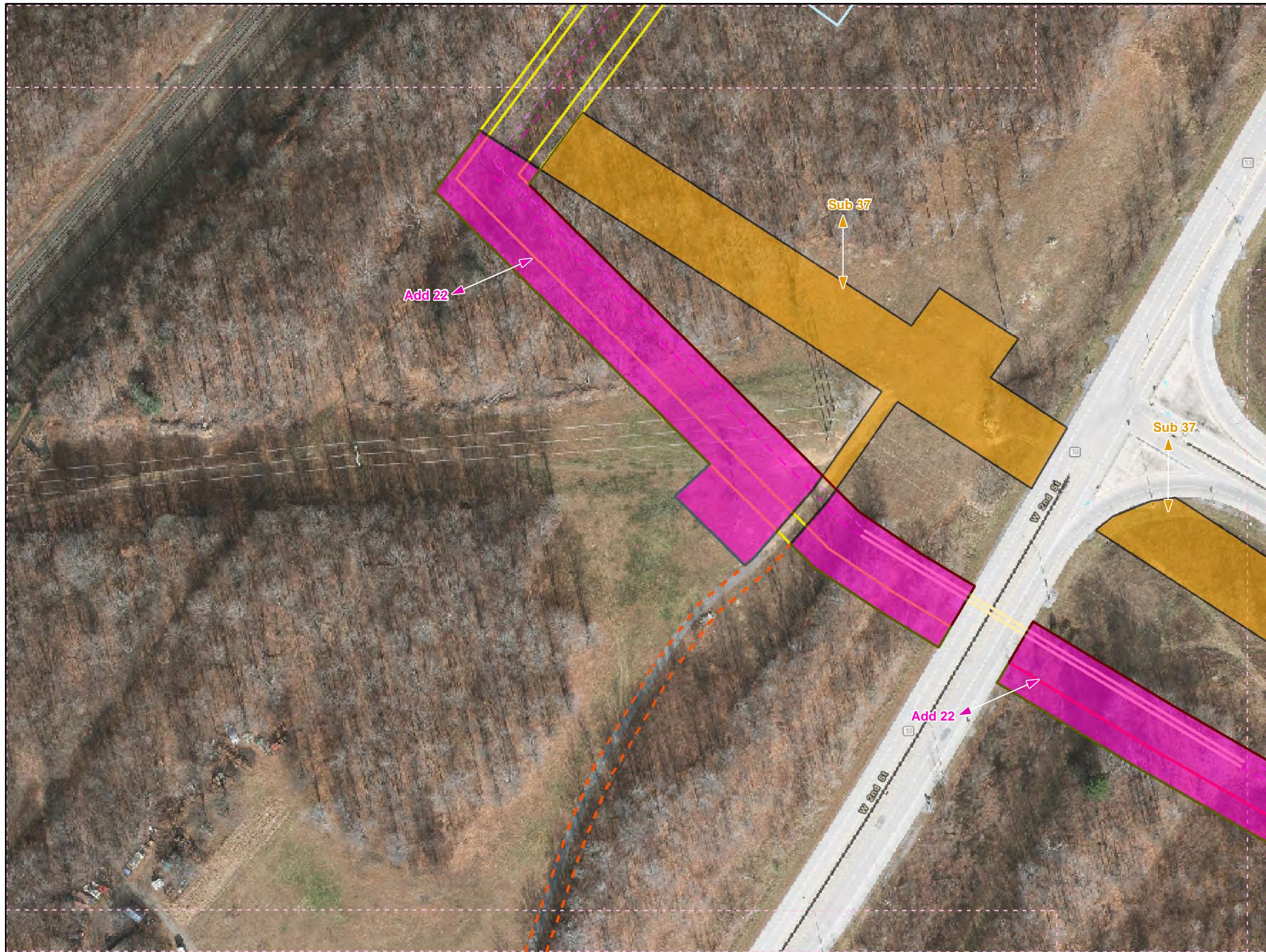
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Prepared By: 	Date: <b>10/2016</b>
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Base Map: Sunoco, 2013-2016  
 Roads: ESRI World Imagery Transportation  
 Coordinate System: NAD 83 Stateplane, PA South, Feet

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**Legend**

- Added Workspace
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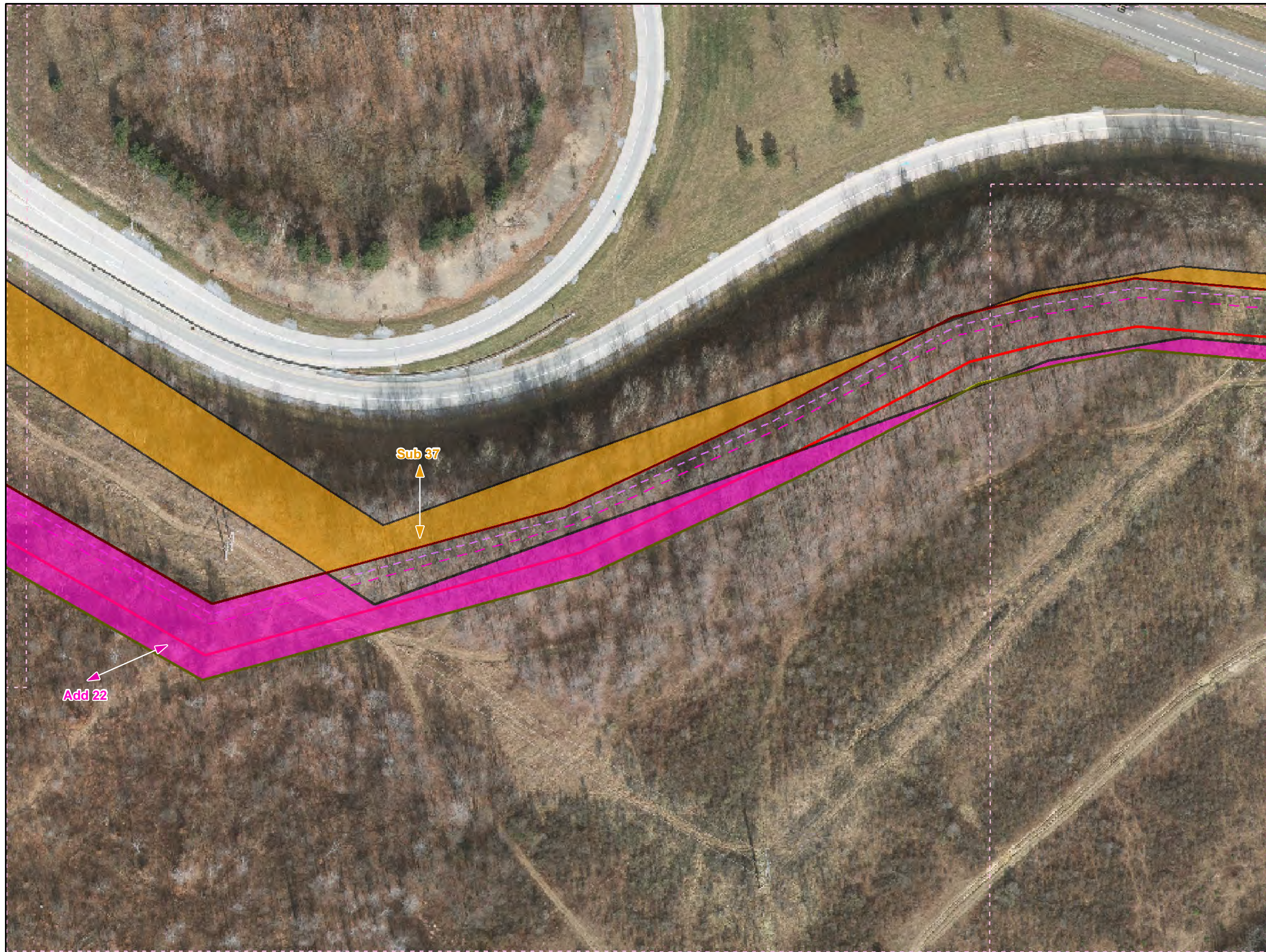
1 inch = 100 feet

**Workspace Changes for the Sunoco Pennsylvania Pipeline Project, Cambria County, PA.**  
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Prepared By:	Date:
	10/2016

Base Map: Sunoco, 2013-2016  
Roads: ESRI World Imagery Transportation  
Coordinate System: NAD 83 Stateplane, PA South, Feet

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**Legend**

- Added Workspace
- Removed Workspace
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↑  
N

0    50    100    200

**1 inch = 100 feet**

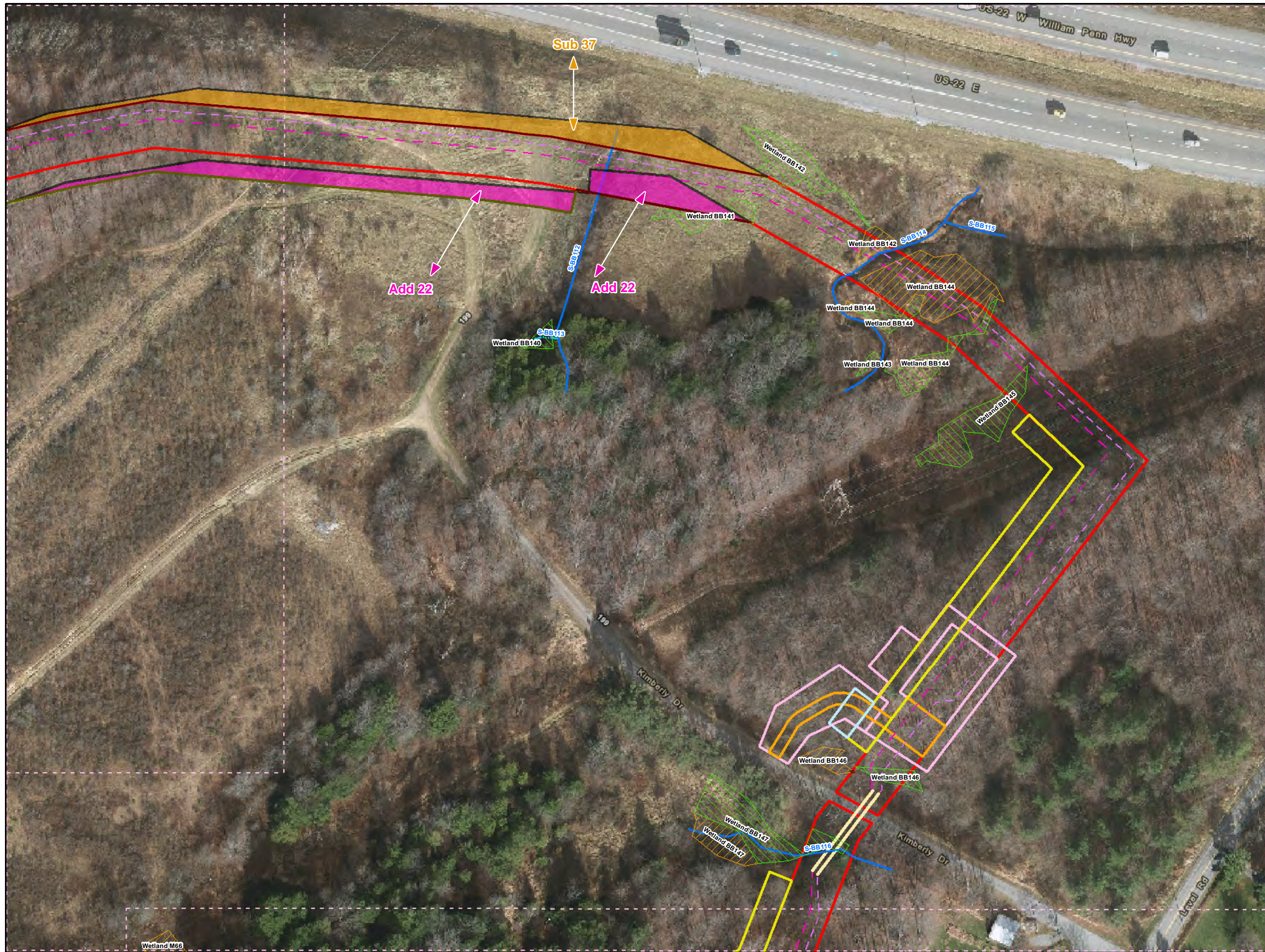
**Workspace Changes for the Sunoco  
Pennsylvania Pipeline Project,  
Cambria County, PA.**

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Prepared By:	Date:
	10/2016

Base Map: Sunoco, 2013-2016  
Roads: ESRI World Imagery Transportation  
Coordinate System: NAD 83 Stateplane, PA South, Feet

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**Legend**

- Added Workspace
- Removed Workspace
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- PSS

1 inch = 100 feet

**Workspace Changes for the Sunoco Pennsylvania Pipeline Project, Cambria County, PA.**  
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<b>Prepared By:</b> 	<b>Date:</b> 10/2016
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Base Map: Sunoco, 2013-2016  
Roads: ESRI World Imagery Transportation  
Coordinate System: NAD 83 Stateplane, PA South, Feet

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