

SPLP has made revisions to the proposed workspaces in Berks 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 7.7548 acres was added and 5.6093 acres subtracted for a net increase of 2.1455 acres of earth disturbance.

Table 1. Pennsylvania Pipeline Project LOD Additions and Subtractions.

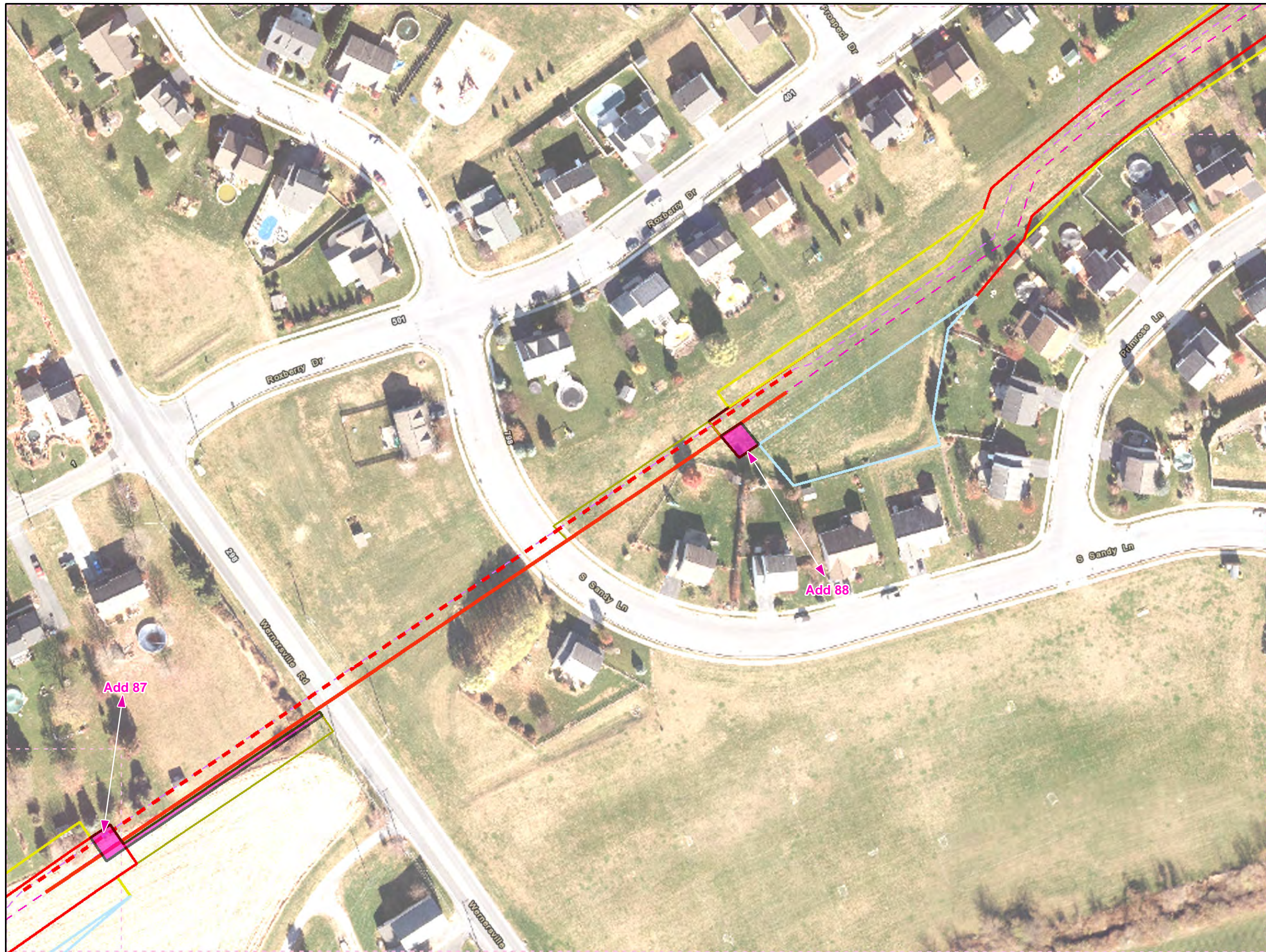
CHANGE ID	COUNTY	REASON FOR CHANGE	ACREAGE	LOD ADDITION OR SUBTRACTION	WETLAND DELINEATION¹	PNDI EVALUATION²	SHEET NUMBER
Add-87	BERKS	Minor LOD adjustment needed to facilitate safe installation	0.0459	Addition	Yes	Yes	12
Add-88	BERKS	Minor LOD adjustment needed to facilitate safe installation	0.0173	Addition	Yes	Yes	12
Add-89	BERKS	Reroute due to geotechnical analysis and underlying karst formations	3.6751	Addition	Yes	Yes	17
Sub-108	BERKS	Reroute due to geotechnical analysis and underlying karst formations	2.6187	Subtraction	NA	NA	17
Sub-109	BERKS	Permanent ROW adjustment to minimize wetland impact	0.0385	Subtraction	NA	NA	23
Add-90	BERKS	Minor LOD adjustment needed to facilitate safe installation	0.0133	Addition	Yes	Yes	23
Add-91	BERKS	Minor LOD adjustment needed to facilitate safe installation	0.0574	Addition	Yes	Yes	32
Add-92	BERKS	Minor LOD adjustment needed to facilitate safe installation	0.023	Addition	Yes	Yes	33
Sub-110	BERKS	Temporary workspace no longer required	0.4303	Subtraction	NA	NA	41

CHANGE ID	COUNTY	REASON FOR CHANGE	ACREAGE	LOD ADDITION OR SUBTRACTION	WETLAND DELINEATION¹	PNDI EVALUATION²	SHEET NUMBER
Sub-111	BERKS	Temporary workspace reduction to avoid floodplain impacts	0.1373	Subtraction	NA	NA	42
Add-93	BERKS	Minor LOD adjustment needed to facilitate safe installation	0.0653	Addition	Yes	Yes	53
Beckersville Station Add-94	BERKS	Beckersville Station design	2.3118	Addition	Yes	Yes	58
Beckersville Station Sub-2	BERKS	Beckersville Station design	0.8419	Subtraction	NA	NA	58
Sub-112	BERKS	Temporary access road adjustment to existing road	0.6071	Subtraction	NA	NA	63
Add-95	BERKS	Temporary access road adjustment to existing road	0.6264	Addition	Yes	Yes	64
Add-96	BERKS	Temporary access road adjustment	0.6548	Addition	Yes	Yes	69
Sub-113	BERKS	Temporary access road adjustment	0.6236	Subtraction	NA	NA	69
Sub-114	BERKS	Temporary workspace reduction to minimize waterbody impact	0.0178	Subtraction	NA	NA	73
Add-97	BERKS	Minor LOD adjustment needed to facilitate safe installation	0.0196	Addition	Yes	Yes	73
Sub-115	BERKS	Permanent ROW adjustment to minimize aquatic resource impacts	0.0104	Subtraction	NA	NA	74
Sub-116	BERKS	Temporary workspace reduction to minimize aquatic resource impact	0.0044	Subtraction	NA	NA	74
Sub-117	BERKS	Temporary workspace reduction to minimize aquatic resource impact	0.0083	Subtraction	NA	NA	74

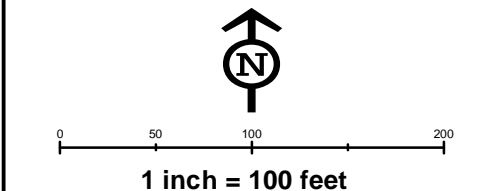
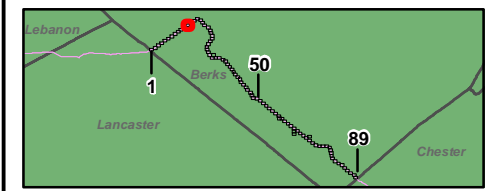
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Add-98	BERKS	Minor LOD adjustment needed to facilitate safe installation	0.1093	Addition	Yes	Yes	74
Add-99	BERKS	Permanent access road needed to access valve	0.0782	Addition	Yes	Yes	76
Sub-118	BERKS	Temporary workspace reduction to minimize wetland impact	0.271	Subtraction	NA	NA	81
Add-100	BERKS	Minor LOD adjustment needed to facilitate safe installation	0.0574	Addition	Yes	Yes	85

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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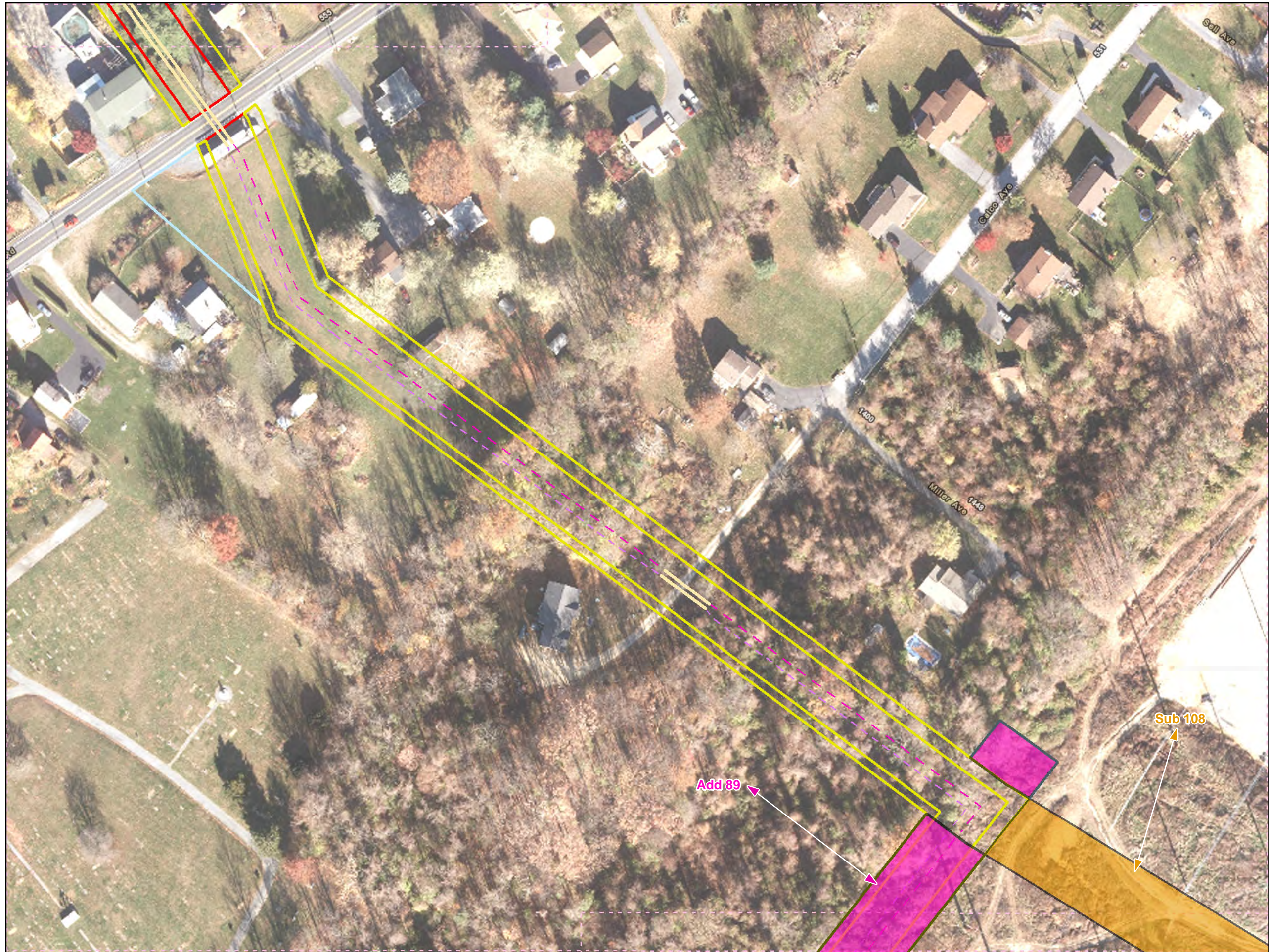


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Pennsylvania Pipeline Project,
Berks County, PA.**
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Prepared By: TETRA TECH	Date: 10/2016
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Base Map: Sunoco, 2013-2016
Roads: ESRI World Imagery Transportation
Coordinate System: NAD 83 Stateplane, PA South, Feet

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1 inch = 100 feet

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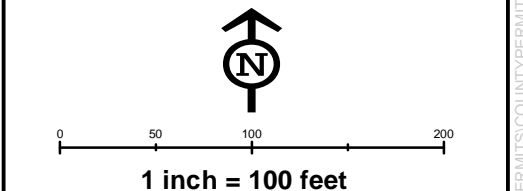
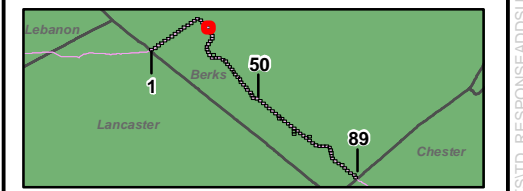
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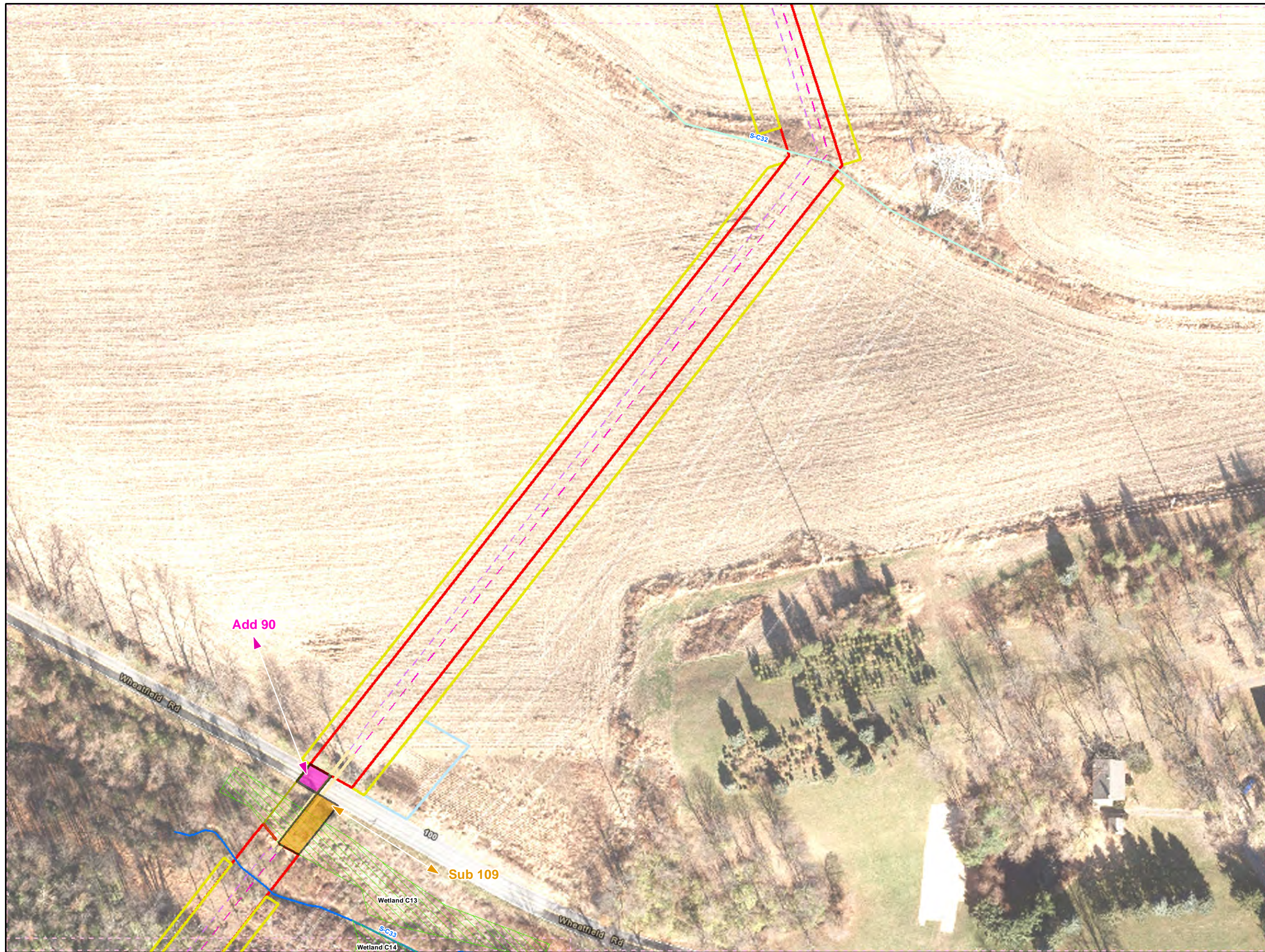


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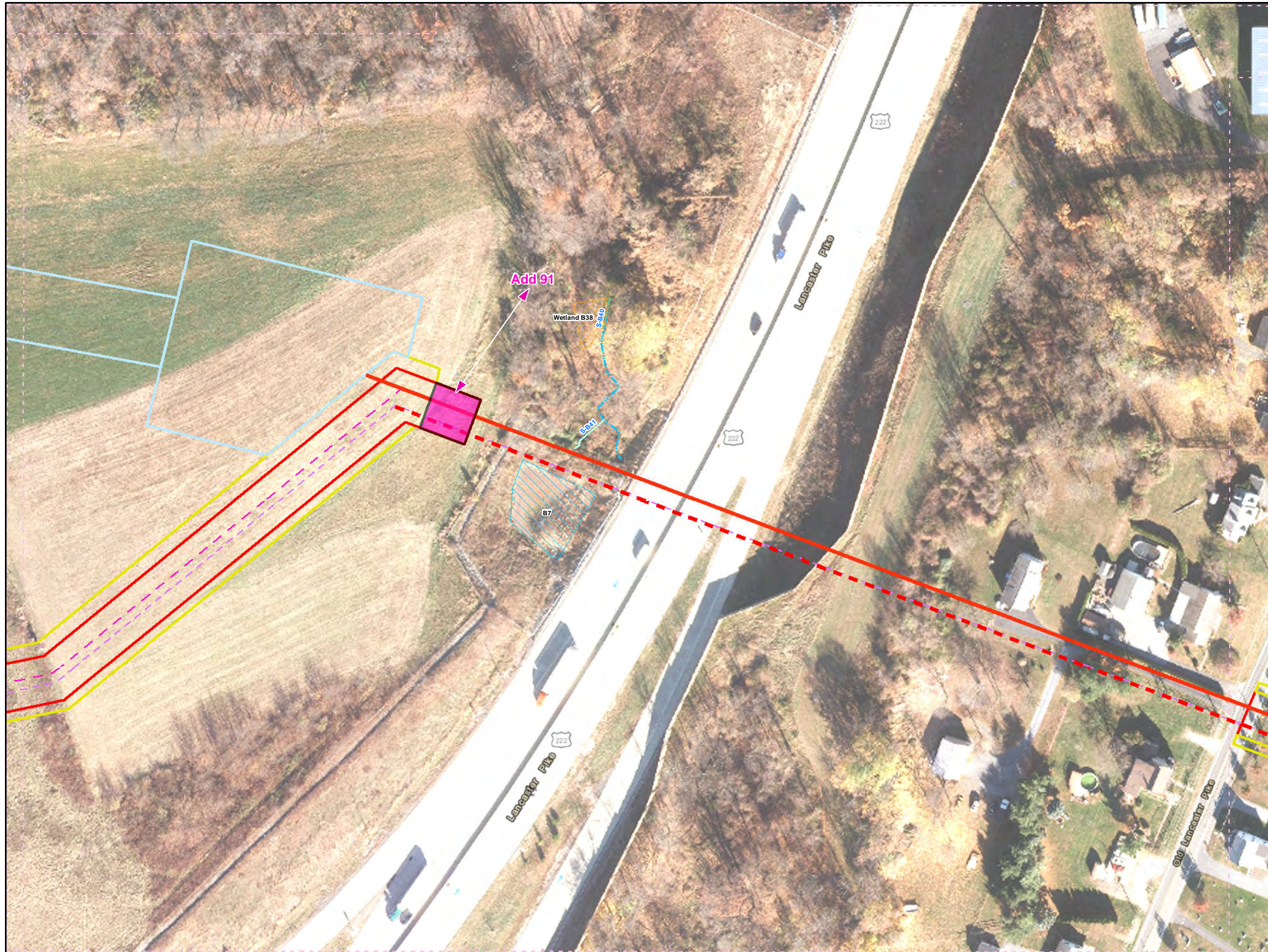
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0 50 100 200
1 inch = 100 feet

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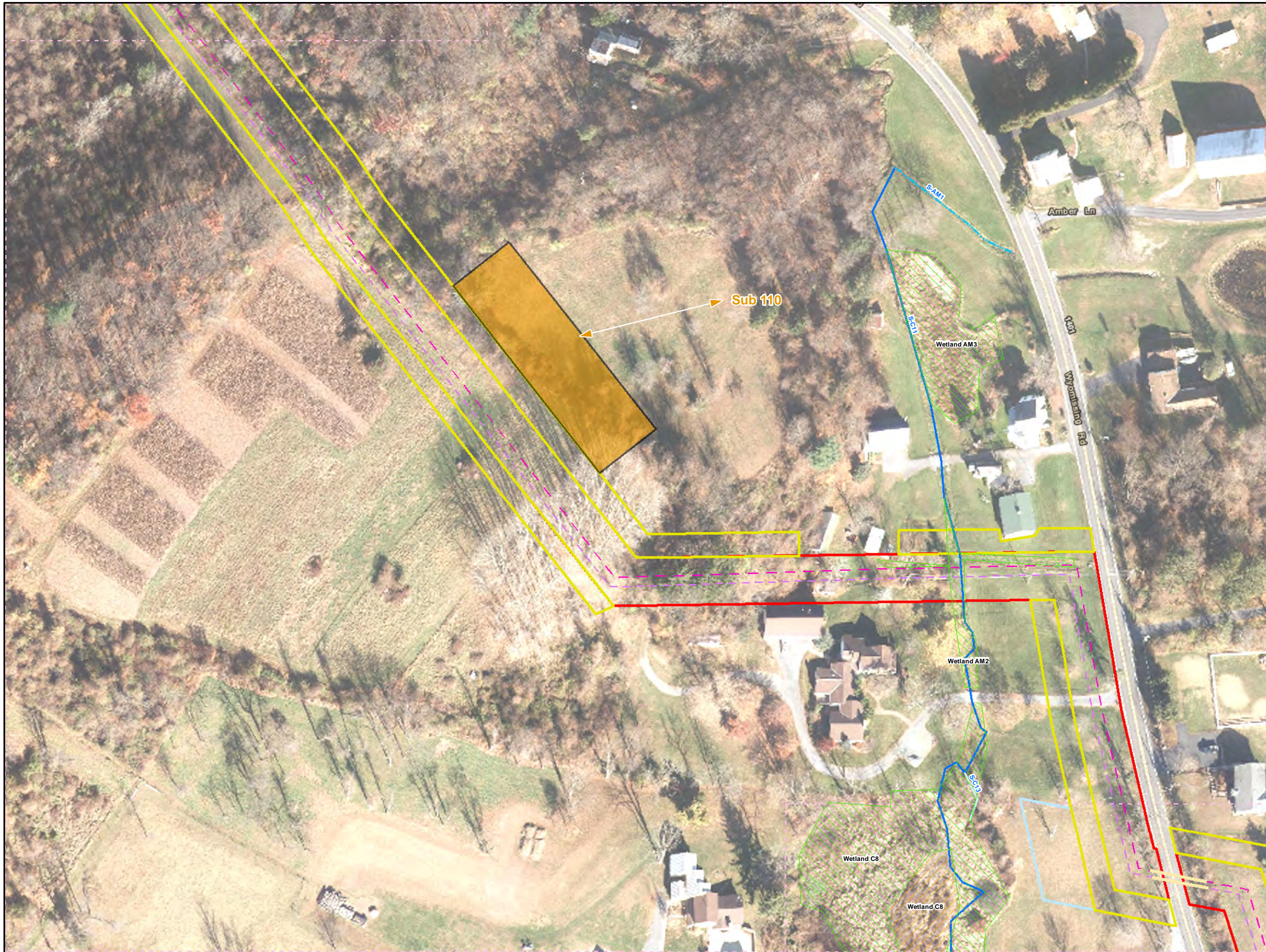
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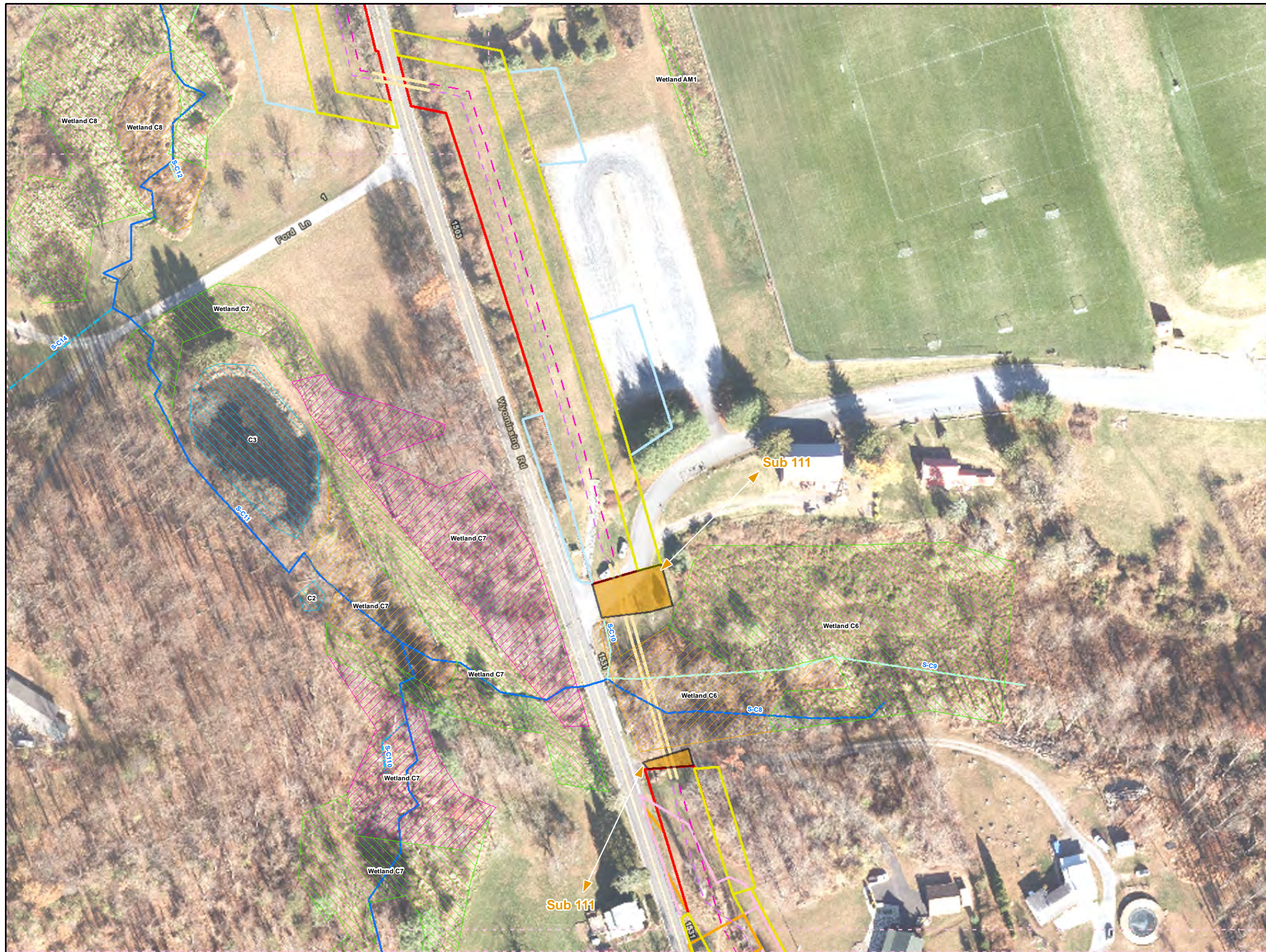
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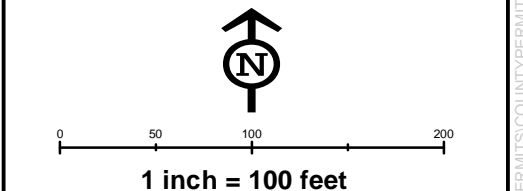
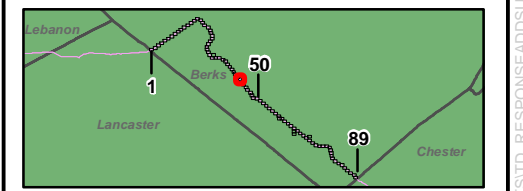
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TETRA TECH	10/2016

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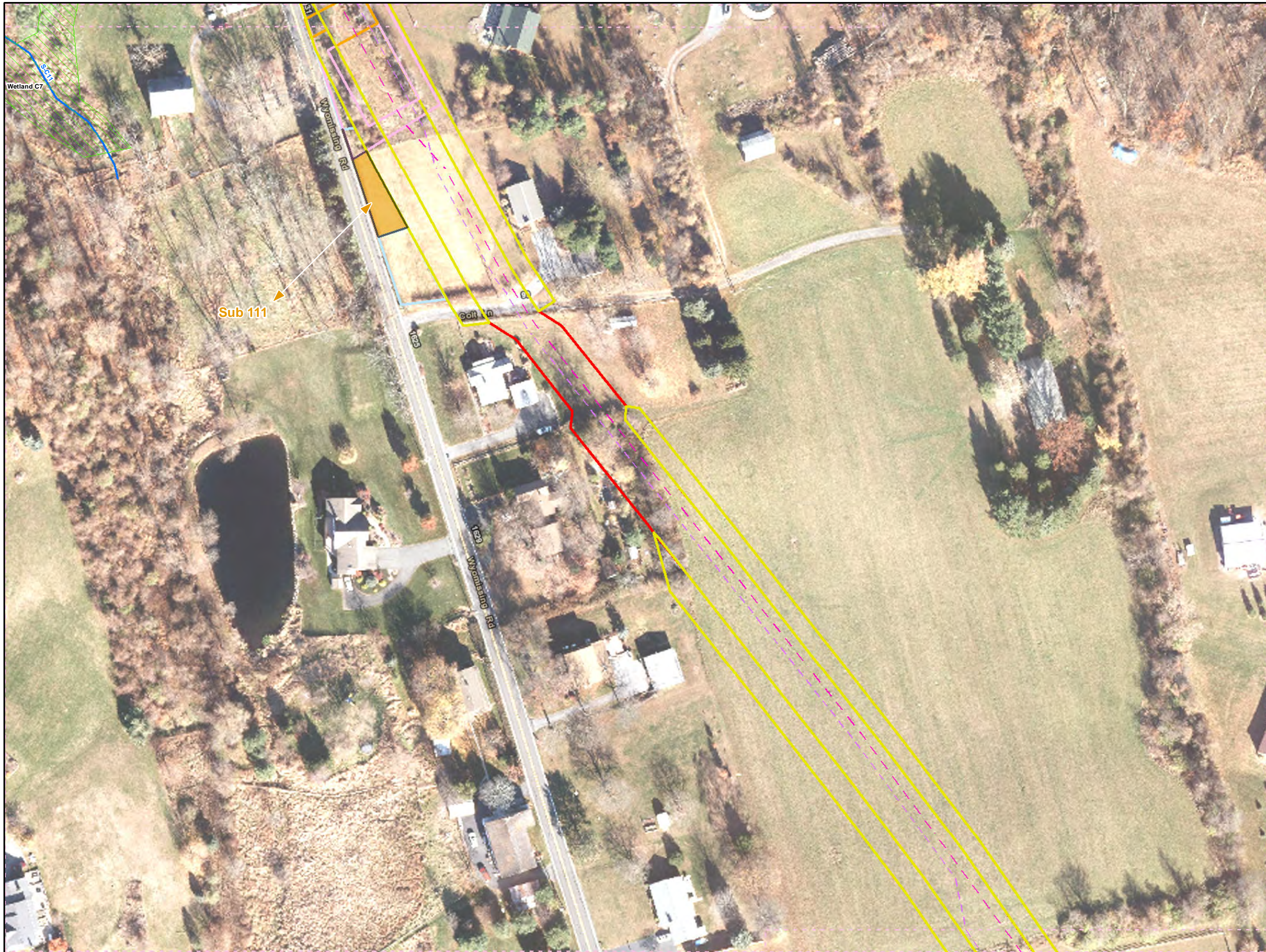


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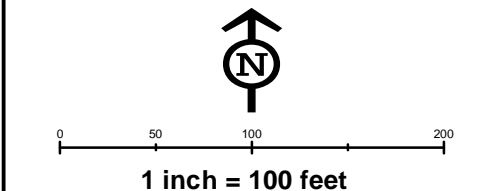
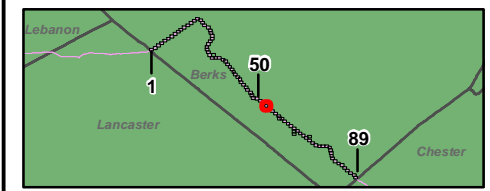
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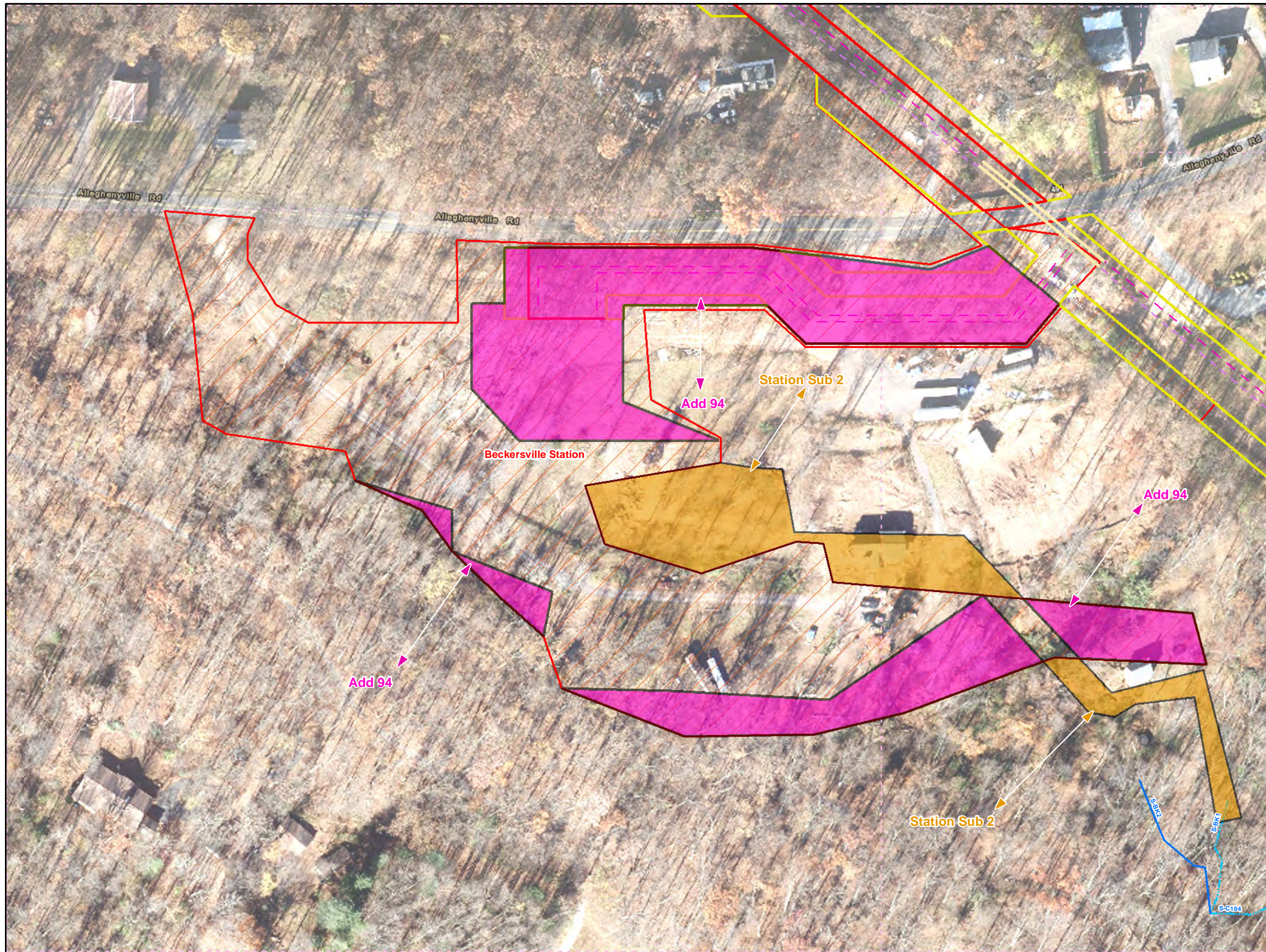


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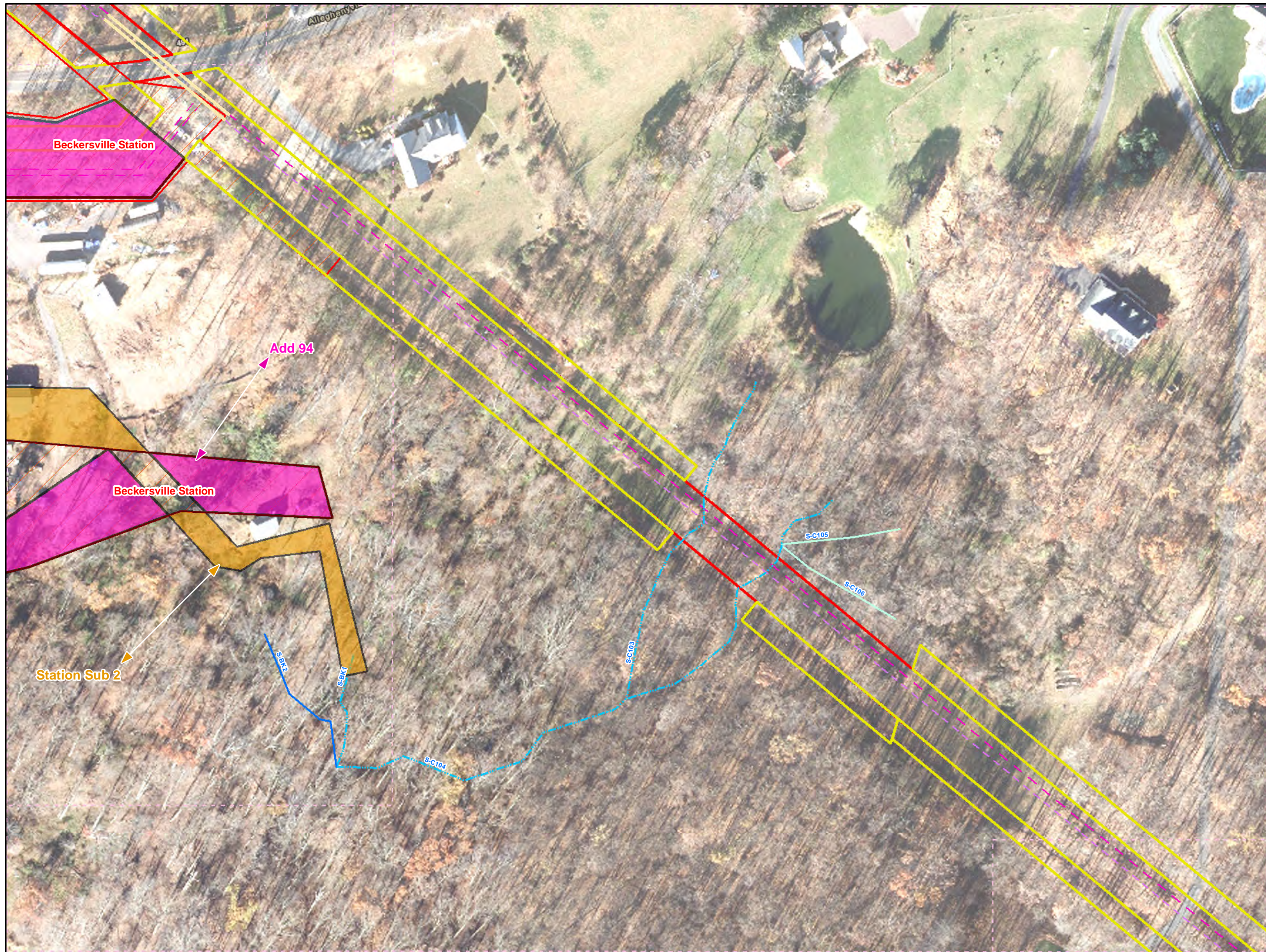
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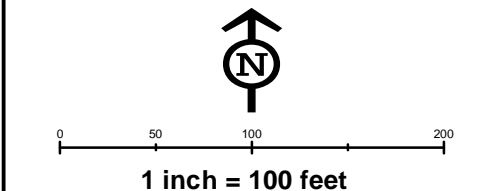
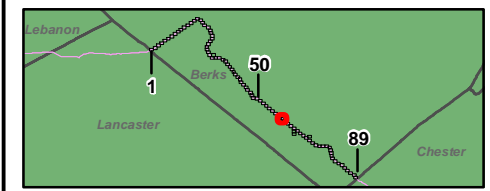
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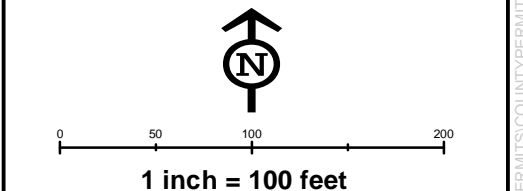
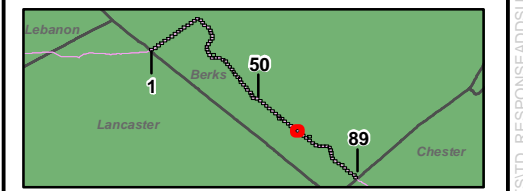
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Lebanon
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0 50 100 200

1 inch = 100 feet

Workspace Changes for the Sunoco
Pennsylvania Pipeline Project,
Berks County, PA.
66 of 89

Prepared By: 	Date: 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
- 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

Lebanon
Berks
Lancaster
Chester

1 50 89

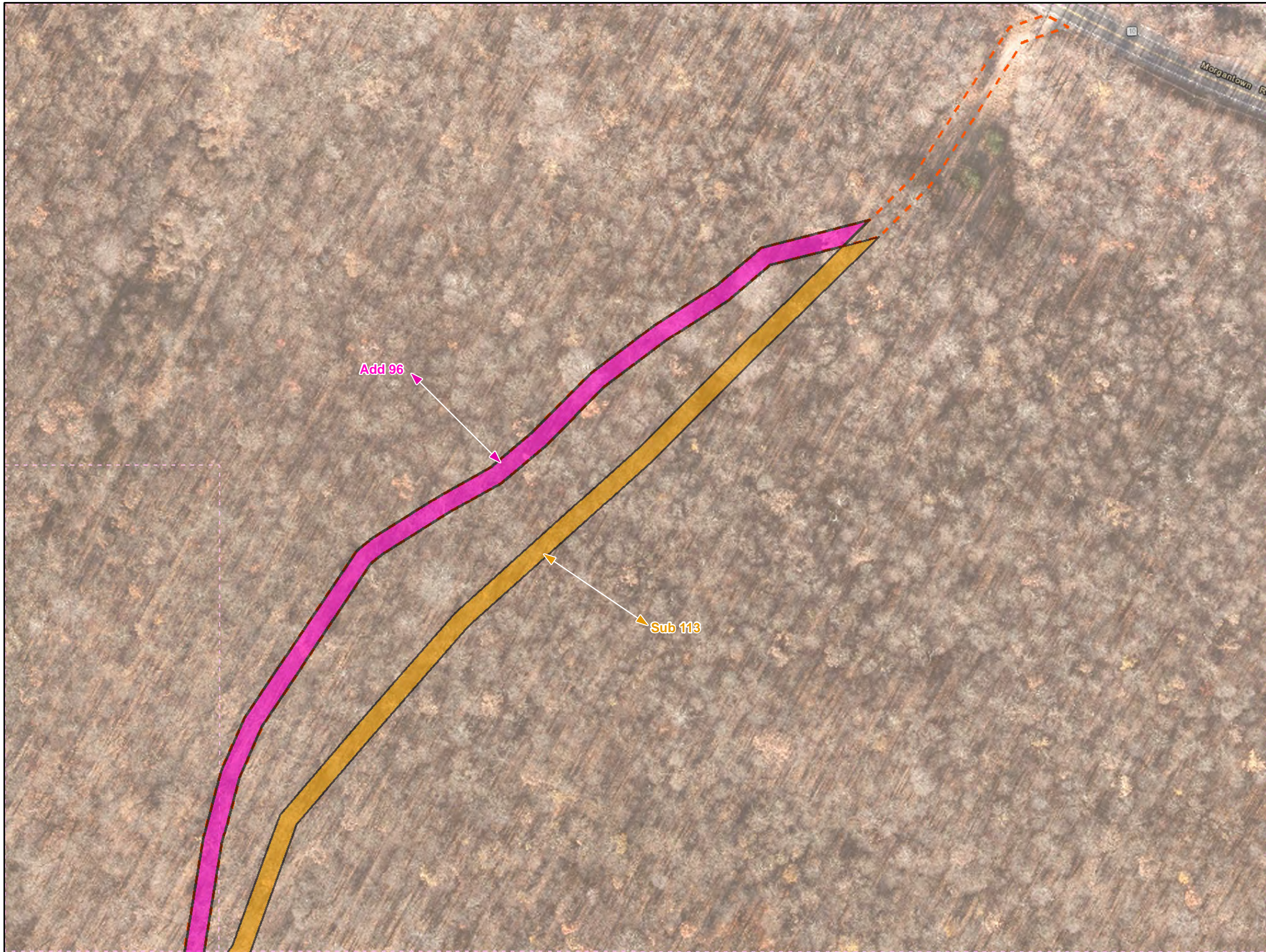
1 inch = 100 feet

Workspace Changes for the Sunoco Pennsylvania Pipeline Project, Berks County, PA.
69 of 89

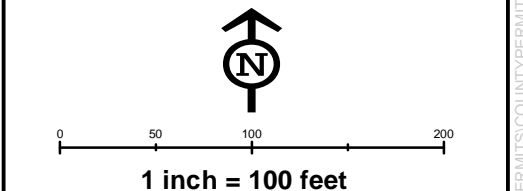
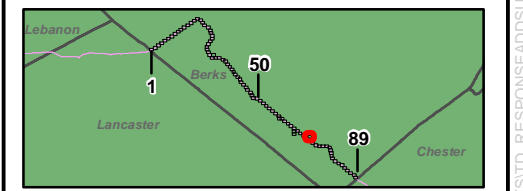
Prepared By:	Date:
	10/2016

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
 - 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,
Berks County, PA.
70 of 89**

Prepared By: 	Date: 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
- Temporary Workspace
- 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

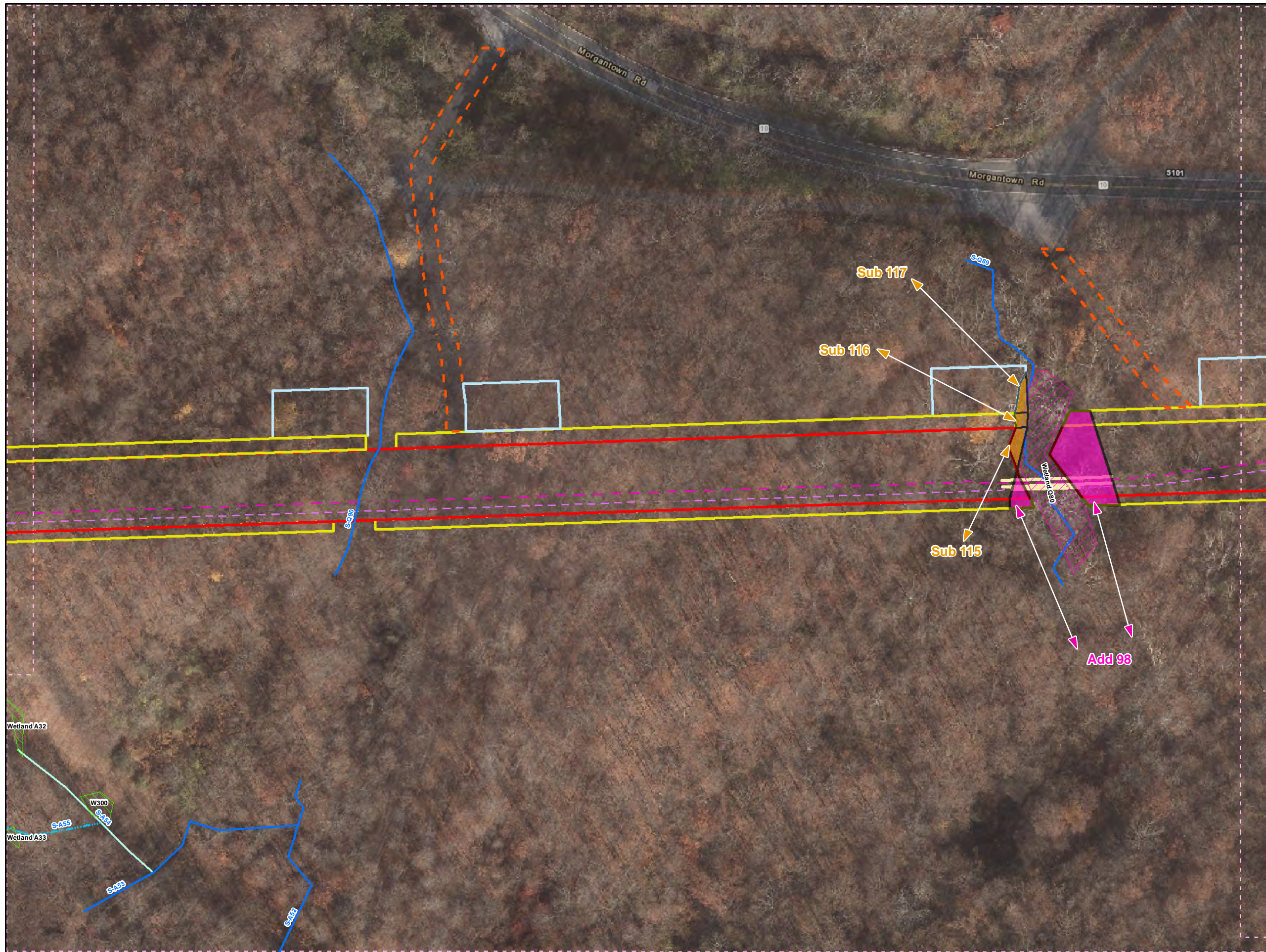
1 inch = 100 feet

Workspace Changes for the Sunoco Pennsylvania Pipeline Project, Berks County, PA.
73 of 89

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
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- PPP 1 HDD
- PPP 2 HDD
- Permanent ROW
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- Travel LOD
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- Station
- Ephemeral Stream
- Intermittent Stream
- Perennial Stream
- Pond
- PEM
- PFO
- PSS

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50
89

N

1 inch = 100 feet

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

74 of 89

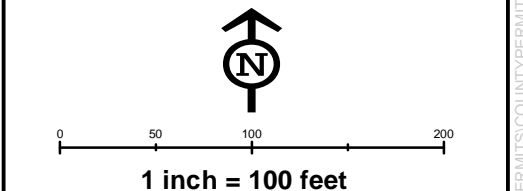
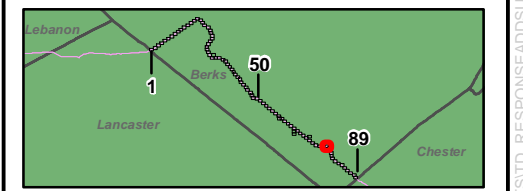
Prepared By: 	Date: 10/2016
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Base Map: Sunoco, 2013-2016
 Roads: ESRI World Imagery Transportation
 Coordinate System: NAD 83 Stateplane, PA South, Feet

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- Legend**
- Added Workspace
 - Removed Workspace
 - Proposed 20-inch Pipeline
 - Proposed 16-inch Pipeline
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 - PPP 1 HDD
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 - Perennial Stream
 - Pond
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 - PFO
 - PSS



**Workspace Changes for the Sunoco
Pennsylvania Pipeline Project,
Berks County, PA.**
76 of 89

Prepared By: <div style="text-align: center;"> TETRA TECH</div>	Date: <div style="text-align: center;">10/2016</div>
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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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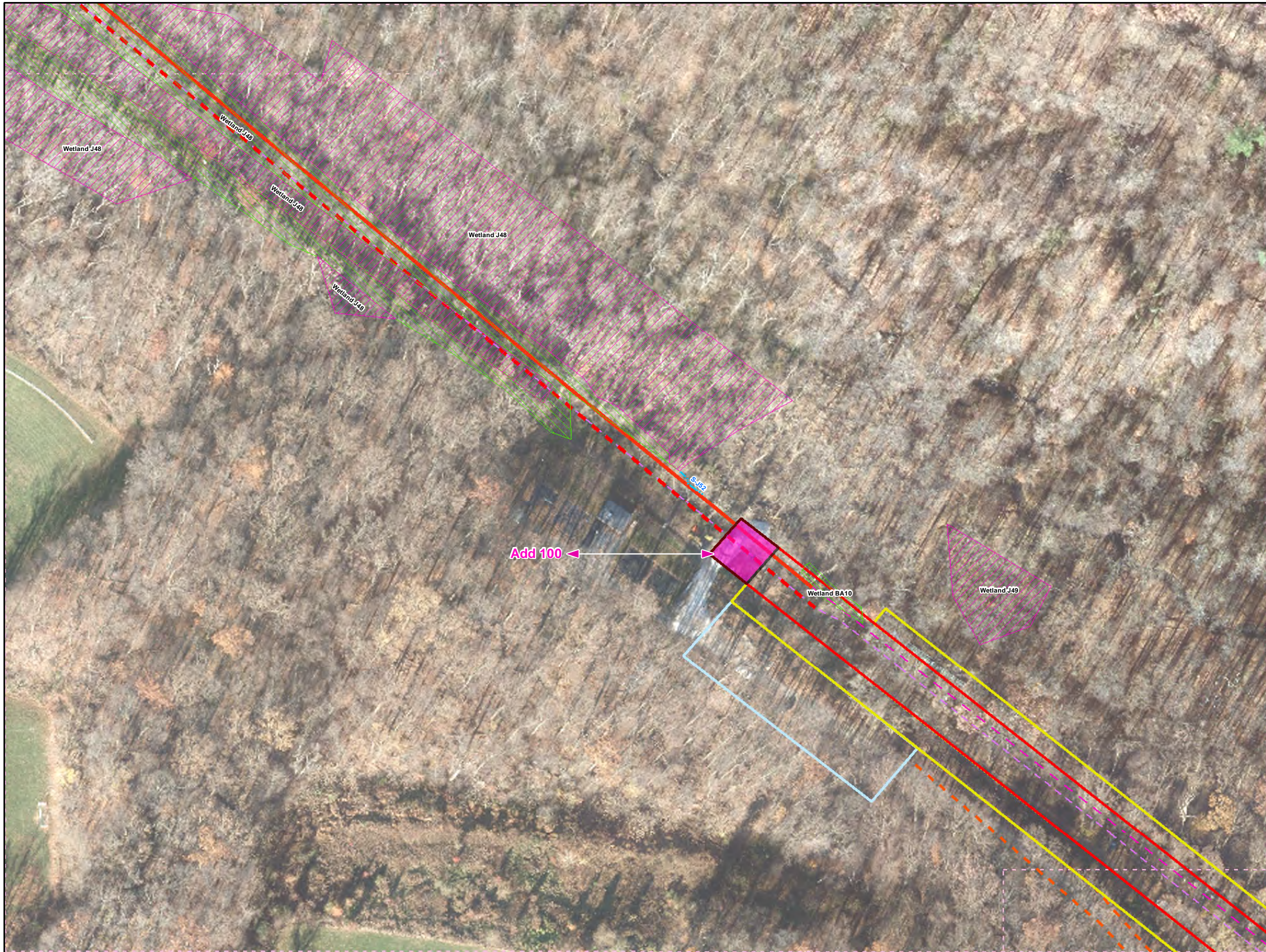
1 inch = 100 feet

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

81 of 89

Prepared By: 	Date: 10/2016
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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, Berks County, PA.

85 of 89

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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