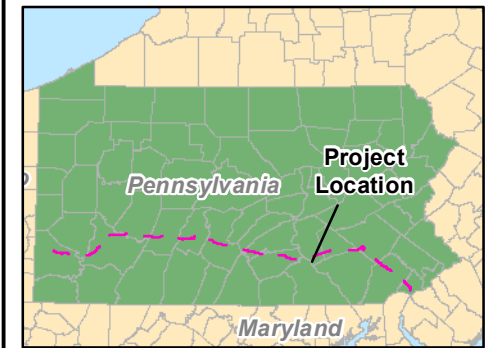
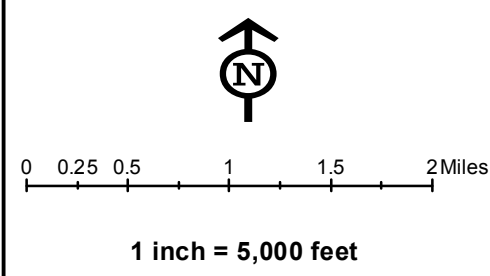


- Legend**
- Sheet Boundary
 - Municipal Boundary
 - PPP 1
 - PPP 2
 - Roads
 - County Boundary



Mapset Legend

- | | | | | |
|---|--|----------------------------------|---------------------------|--------------------|
| Sheet Boundary | Permanent ROW | ME1 12" Pipeline | Existing Water Line | PEM Extension |
| Site Specific Drawing | Temporary ROW | 12" ME1 Permanent ROW | Stream Photo | PFO Extension |
| PPP 1 | ATWS | 8" Centerline | PEM Photo | PSS Extension |
| PPP 2 | Permanent Access Road | 8" Pipeline Maintenance Corridor | PFO Photo | PEM Wetland |
| PPP 1, Bore | Temporary Access Road | Existing Buried Cable | PSS Photo | PFO Wetland |
| PPP 1, HDD | ROW - Travel LOD (Travel Lane) | Existing Electric Line | Ephemeral Stream | PSS Wetland |
| PPP 2, Bore | ROW - Travel and Clearing LOD (Clearing LOD) | Existing Fiberoptic Cable | Intermittent Stream | Pond |
| PPP 2, HDD | Station LOD | Existing Gas Line | Perennial Stream | Municipal Boundary |
| Pullback String | Hay Bale Discharge (See E&S Plan, Att 12) | Existing Phone Line | Chapter 105 Floodway | Parcels |
| Bore Pits | Direct Discharge (See E&S Plan, Att 12) | Existing Sanitary Sewer | Waived Ch. 105 Floodway | Contours |
| Existing Block Valve | Water Source (See E&S Plan, Att 12) | Existing Septic System | Ch. 106 Floodplain Fringe | Roads |
| New Block Valve | | Existing Storm Sewer | | |
| Block Valve Setting LOD | | Existing TV Line | | |
| Permanent Easement (no surface disturbance) | | Existing Utility (unknown) | | |

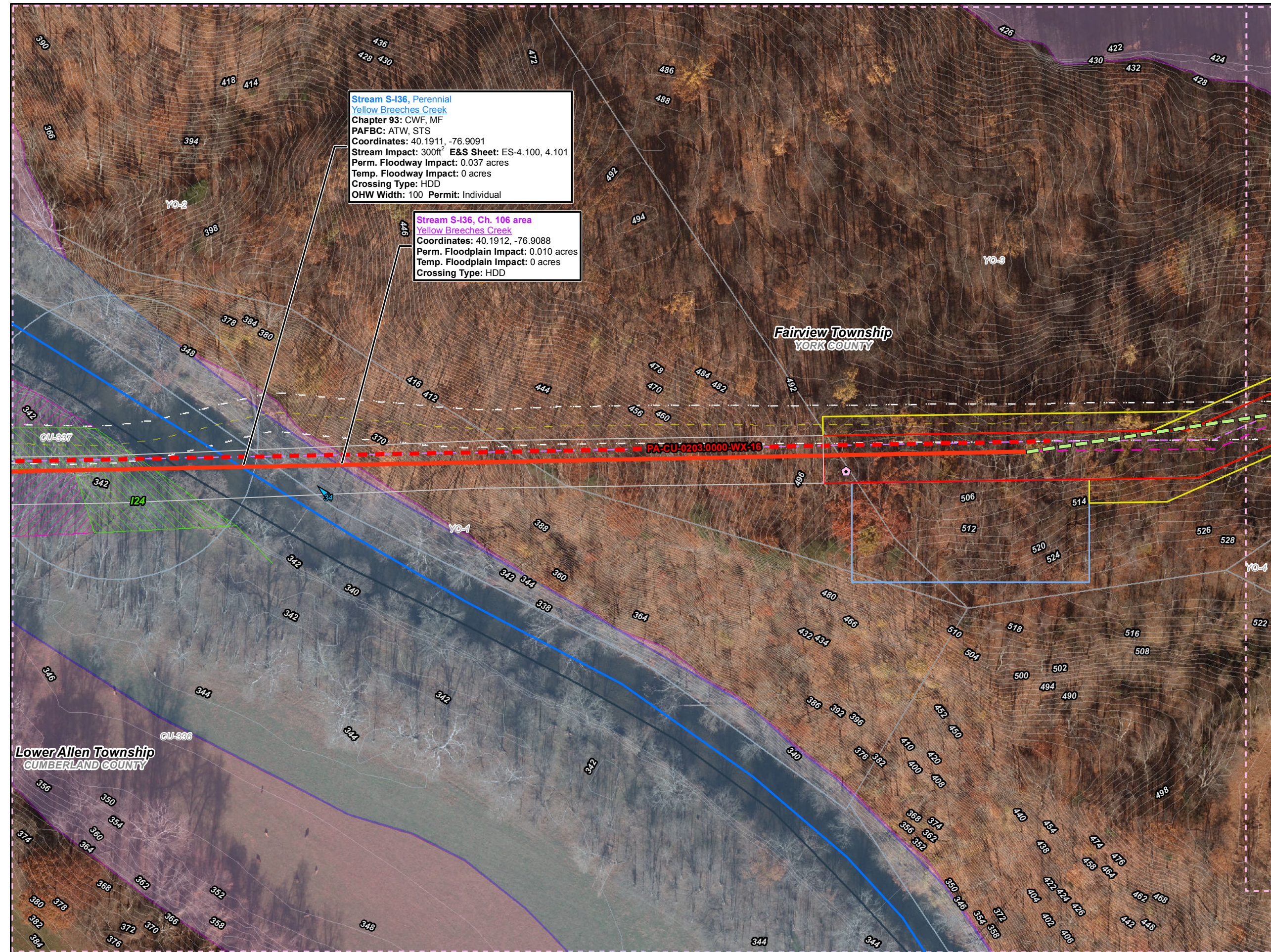


Site Plan Sheet Key for the Sunoco Pennsylvania Pipeline Project, York County, PA. Sheet 1 of 1

Prepared By: TETRA TECH Date: 11/2016

Base Map: ESRI ArcGIS Online, Roads from NRCS Geospatial Data Giveaway, 100-Year Floodplain from FEMA National Flood Hazard Layer, downloaded 10/2015. Coordinate System: NAD 83 Stateplane, PA South, Feet

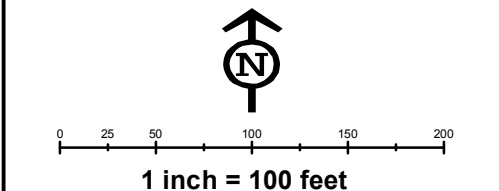
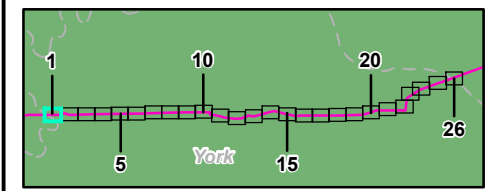
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Stream S-136, Perennial Yellow Breeches Creek
 Chapter 93: CWF, MF
 PAFBC: ATW, STS
 Coordinates: 40.1911, -76.9091
 Stream Impact: 300ft² E&S Sheet: ES-4.100, 4.101
 Perm. Floodway Impact: 0.037 acres
 Temp. Floodway Impact: 0 acres
 Crossing Type: HDD
 OHW Width: 100 Permit: Individual

Stream S-136, Ch. 106 area Yellow Breeches Creek
 Coordinates: 40.1912, -76.9088
 Perm. Floodplain Impact: 0.010 acres
 Temp. Floodplain Impact: 0 acres
 Crossing Type: HDD

- Legend**
- Sheet Boundary
 - PPP 1
 - PPP 2
 - PPP 1, Bore
 - PPP 1, HDD
 - PPP 2, Bore
 - PPP 2, HDD
 - Pullback String
 - Permanent Easement (no surface disturbance)
 - Permanent ROW
 - Temporary ROW
 - ATWS
 - Permanent Access Road
 - Temporary Access Road
 - ROW-Travel LOD
 - ROW-Travel and Clearing LOD
 - Existing Block Valve
 - New Block Valve
 - Block Valve Setting LOD
 - Station LOD
 - Bore Pits
 - PEM Wetland
 - PFO Wetland
 - PSS Wetland
 - Pond
 - Ephemeral Stream
 - Intermittent Stream
 - Perennial Stream
 - Chapter 105 Floodway
 - Waived Floodway
 - Ch. 106 Floodplain Fringe

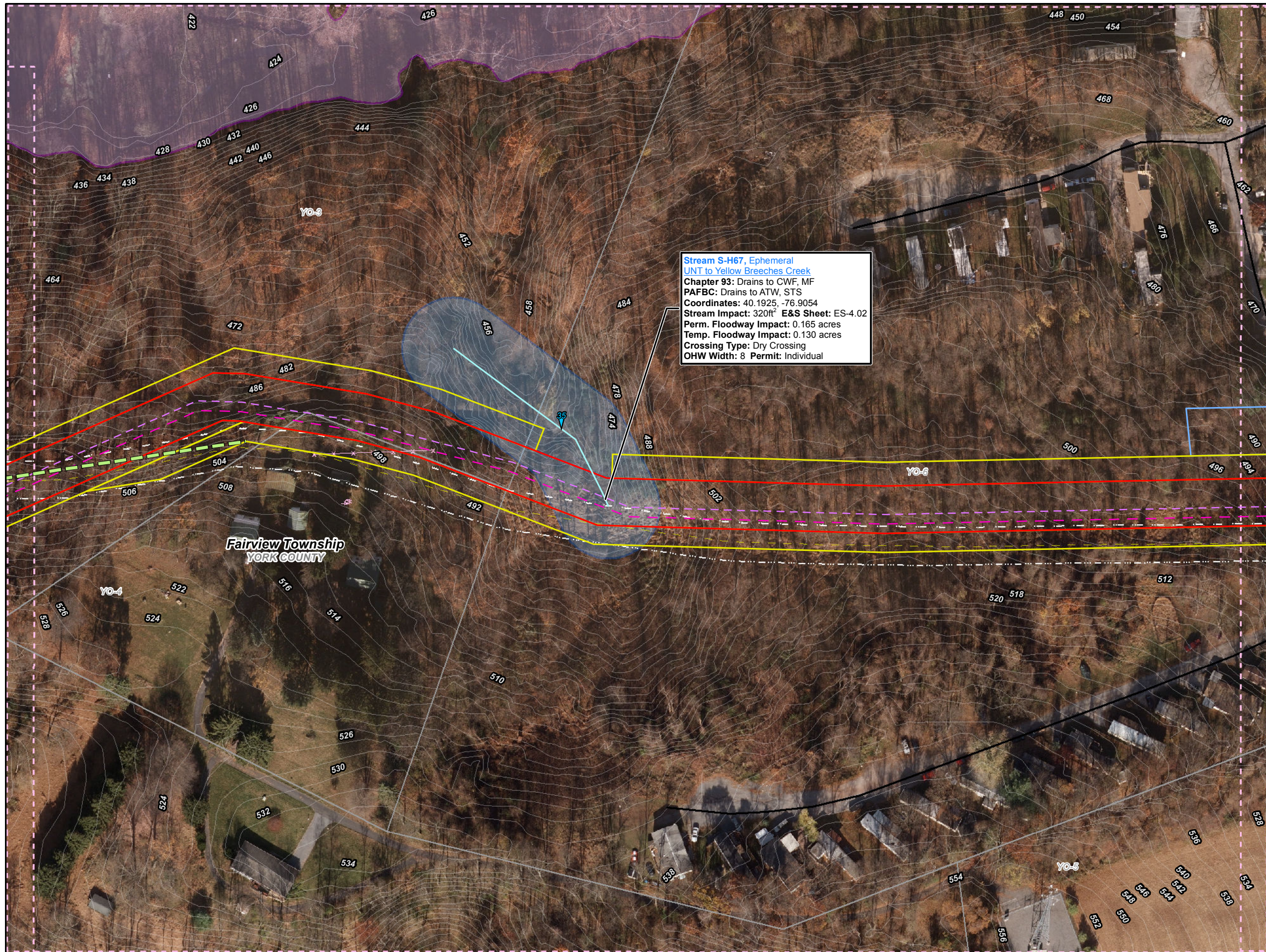


Site Plan for the Sunoco Pennsylvania Pipeline Project, York County, PA.
 Sheet 1 of 26

Prepared By: TETRA TECH	Date: 11/2016
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Base Map: SPLP 2014-2016, Roads from NRCS Geospatial Data Giveaway, 100-Year Floodplain from FEMA NFHL, downloaded 9/2016. Aquatics, TT 2013-2016.
 Coordinate System: NAD 83 Stateplane, PA South, Feet

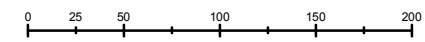
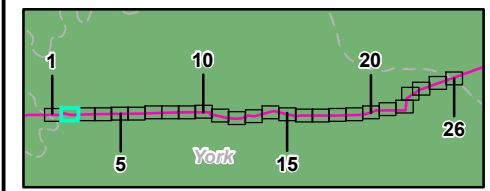
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Stream S-H67, Ephemeral
 UNT to Yellow Breeches Creek
 Chapter 93: Drains to CWF, MF
 PAFBC: Drains to ATW, STS
 Coordinates: 40.1925, -76.9054
 Stream Impact: 320ft² E&S Sheet: ES-4.02
 Perm. Floodway Impact: 0.165 acres
 Temp. Floodway Impact: 0.130 acres
 Crossing Type: Dry Crossing
 OHW Width: 8 Permit: Individual

Legend

- Sheet Boundary
- PPP 1
- PPP 2
- PPP 1, Bore
- PPP 1, HDD
- PPP 2, Bore
- PPP 2, HDD
- Pullback String
- Permanent Easement (no surface disturbance)
- Permanent ROW
- Temporary ROW
- ATWS
- Permanent Access Road
- Temporary Access Road
- ROW-Travel LOD
- ROW-Travel and Clearing LOD
- Existing Block Valve
- New Block Valve
- Block Valve Setting LOD
- Station LOD
- Bore Pits
- PEM Wetland
- PFO Wetland
- PSS Wetland
- Pond
- Ephemeral Stream
- Intermittent Stream
- Perennial Stream
- Chapter 105 Floodway
- Waived Floodway
- Ch. 106 Floodplain Fringe



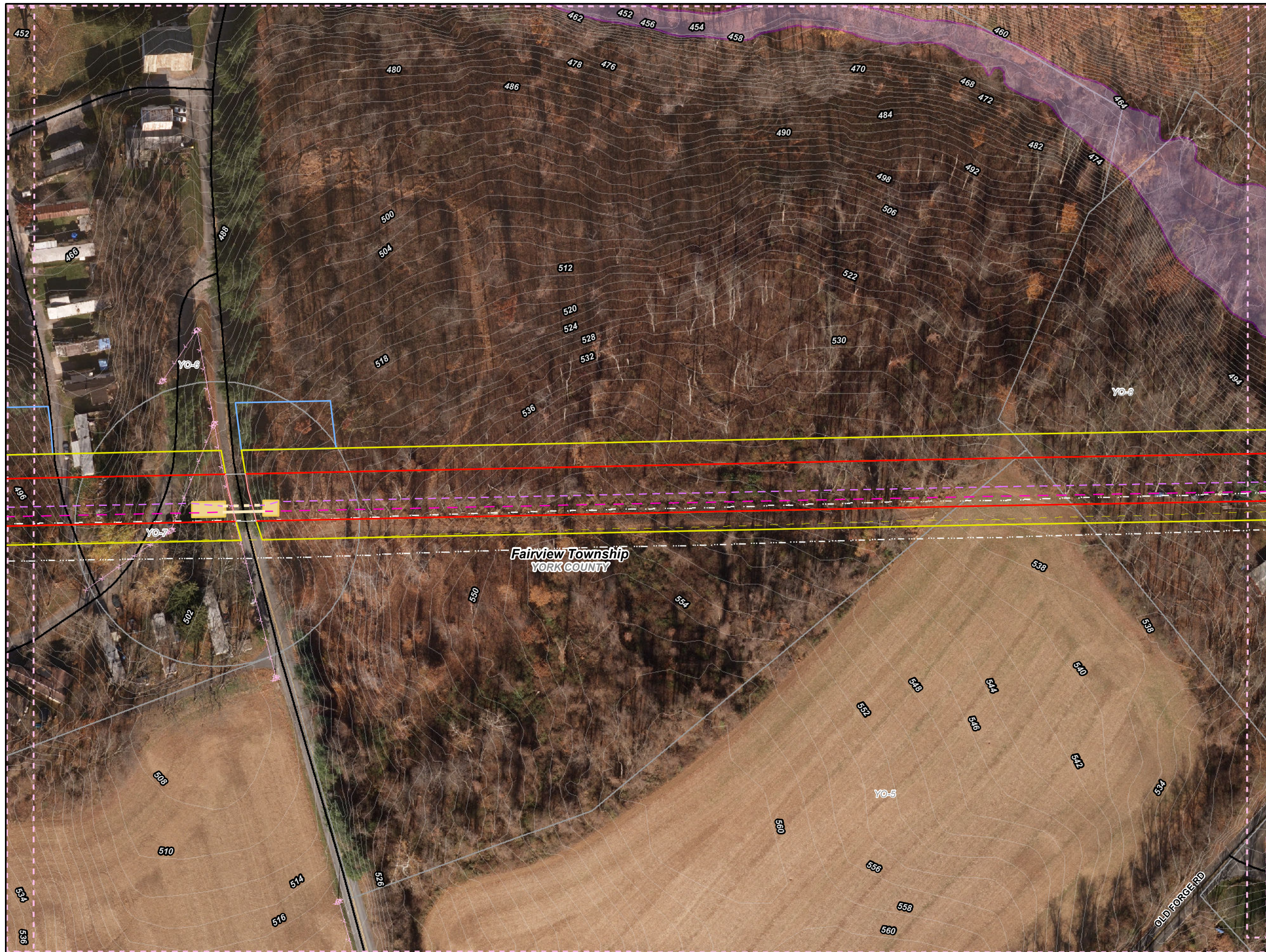
1 inch = 100 feet

Site Plan for the Sunoco
 Pennsylvania Pipeline Project,
 York County, PA.
 Sheet 2 of 26

Prepared By:	Date:
TETRA TECH	11/2016

Base Map: SPLP 2014-2016, Roads from NRCS Geo-spatial Data Giveaway, 100-Year Floodplain from FEMA NFHL, downloaded 9/2016. Aquatics, TT 2013-2016.
 Coordinate System: NAD 83 Stateplane, PA South, Feet

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Legend

- Sheet Boundary
- PPP 1
- PPP 2
- PPP 1, Bore
- PPP 1, HDD
- PPP 2, Bore
- PPP 2, HDD
- Pullback String
- Permanent Easement (no surface disturbance)
- Permanent ROW
- Temporary ROW
- ATWS
- Permanent Access Road
- Temporary Access Road
- ROW-Travel LOD
- ROW-Travel and Clearing LOD
- Existing Block Valve
- New Block Valve
- Block Valve Setting LOD
- Station LOD
- Bore Pits
- PEM Wetland
- PFO Wetland
- PSS Wetland
- Pond
- Ephemeral Stream
- Intermittent Stream
- Perennial Stream
- Chapter 105 Floodway
- Waived Floodway
- Ch. 106 Floodplain Fringe

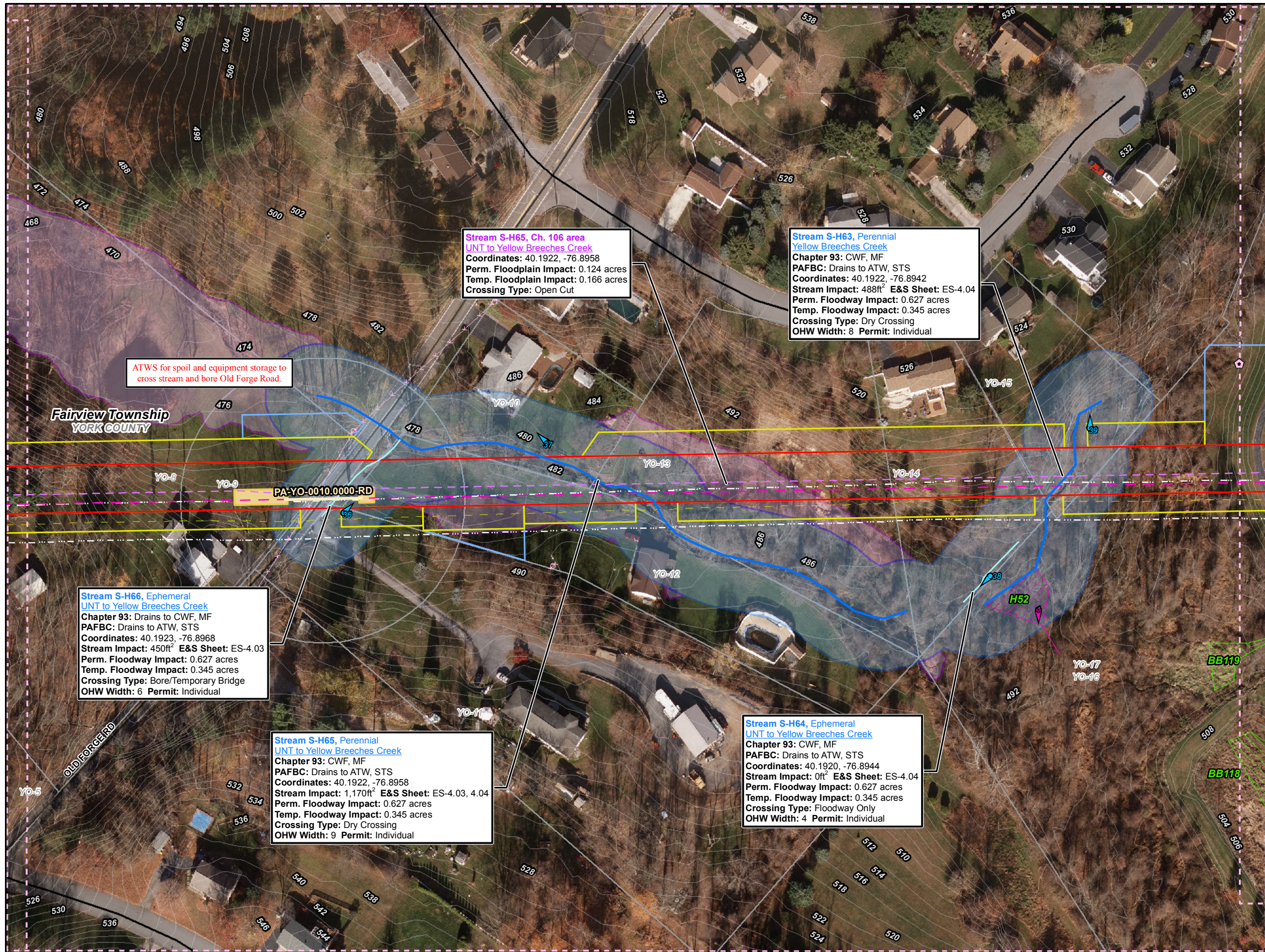
1 inch = 100 feet

**Site Plan for the Sunoco
Pennsylvania Pipeline Project,
York County, PA.
Sheet 3 of 26**

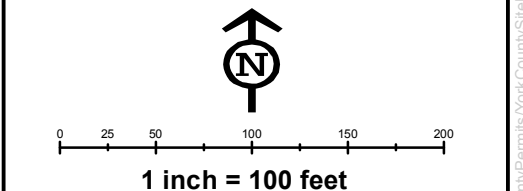
Prepared By: TETRA TECH	Date: 11/2016
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Base Map; SPLP 2014-2016, Roads from NRCS Geo-spatial Data Giveaway, 100-Year Floodplain from FEMA NFHL, downloaded 9/2016. Aquatics, TT 2013-2016.
Coordinate System: NAD 83 Stateplane, PA South, Feet

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- ### Legend
- Sheet Boundary
 - PPP 1
 - PPP 2
 - PPP 1, Bore
 - PPP 1, HDD
 - PPP 2, Bore
 - PPP 2, HDD
 - Pullback String
 - Permanent Easement (no surface disturbance)
 - Permanent ROW
 - Temporary ROW
 - ATWS
 - Permanent Access Road
 - Temporary Access Road
 - ROW-Travel LOD
 - ROW-Travel and Clearing LOD
 - Existing Block Valve
 - New Block Valve
 - Block Valve Setting LOD
 - Station LOD
 - Bore Pits
 - PEM Wetland
 - PFO Wetland
 - PSS Wetland
 - Pond
 - Ephemeral Stream
 - Intermittent Stream
 - Perennial Stream
 - Chapter 105 Floodway
 - Waived Floodway
 - Ch. 106 Floodplain Fringe



**Site Plan for the Sunoco
Pennsylvania Pipeline Project,
York County, PA.
Sheet 4 of 26**

Prepared By:	Date:
	11/2016

Base Map: SPLP 2014-2016, Roads from NRCS Geo-spatial Data Giveaway, 100-Year Floodplain from FEMA NFHL, downloaded 9/2016. Aquatics, TT 2013-2016.
Coordinate System: NAD 83 Stateplane, PA South, Feet

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Legend

- Sheet Boundary
- PPP 1
- PPP 2
- PPP 1, Bore
- PPP 1, HDD
- PPP 2, Bore
- PPP 2, HDD
- Pullback String
- Permanent Easement (no surface disturbance)
- Permanent ROW
- Temporary ROW
- ATWS
- Permanent Access Road
- Temporary Access Road
- ROW-Travel LOD
- ROW-Travel and Clearing LOD
- Existing Block Valve
- New Block Valve
- Block Valve Setting LOD
- Station LOD
- Bore Pits
- PEM Wetland
- PFO Wetland
- PSS Wetland
- Pond
- Ephemeral Stream
- Intermittent Stream
- Perennial Stream
- Chapter 105 Floodway
- Waived Floodway
- Ch. 106 Floodplain Fringe

1 inch = 100 feet

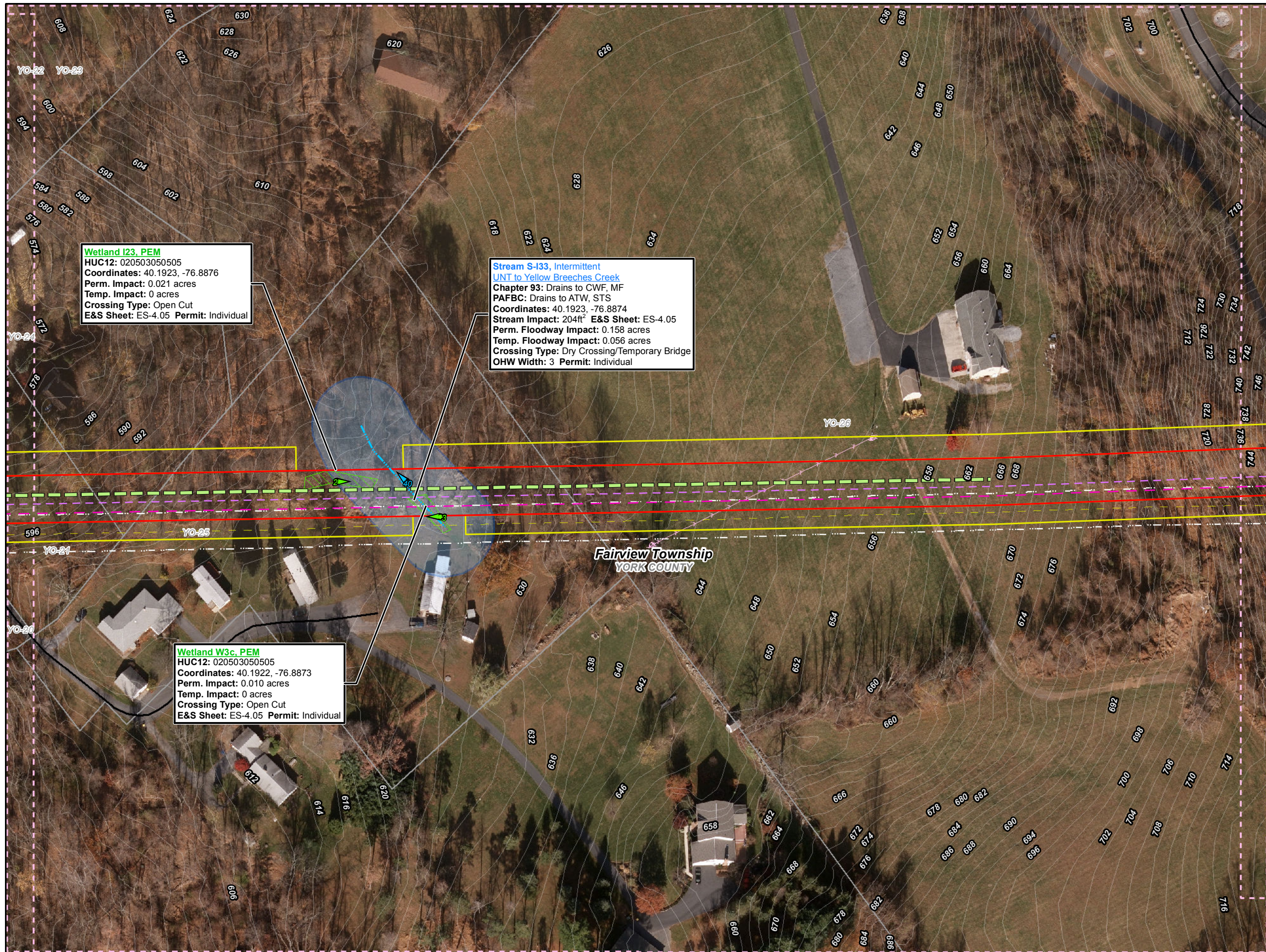
Site Plan for the Sunoco Pennsylvania Pipeline Project, York County, PA.
Sheet 5 of 26

Prepared By: TETRA TECH	Date: 11/2016
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Base Map: SPLP 2014-2016, Roads from NRCS Geo-spatial Data Giveaway, 100-Year Floodplain from FEMA NFHL, downloaded 9/2016. Aquatics, TT 2013-2016.

Coordinate System: NAD 83 Stateplane, PA South, Feet

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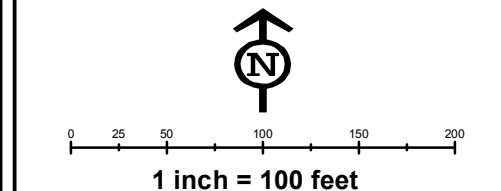
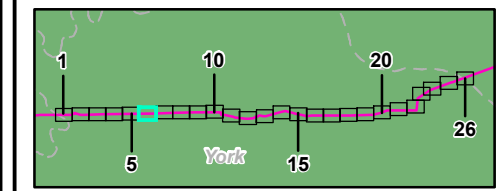
Wetland I23, PEM
 HUC12: 020503050505
 Coordinates: 40.1923, -76.8876
 Perm. Impact: 0.021 acres
 Temp. Impact: 0 acres
 Crossing Type: Open Cut
 E&S Sheet: ES-4.05 Permit: Individual

Stream S-133, Intermittent
 UNT to Yellow Breeches Creek
 Chapter 93: Drains to CWF, MF
 PAFBC: Drains to ATW, STS
 Coordinates: 40.1923, -76.8874
 Stream Impact: 204ft² E&S Sheet: ES-4.05
 Perm. Floodway Impact: 0.158 acres
 Temp. Floodway Impact: 0.056 acres
 Crossing Type: Dry Crossing/Temporary Bridge
 OHW Width: 3 Permit: Individual

Wetland W3c, PEM
 HUC12: 020503050505
 Coordinates: 40.1922, -76.8873
 Perm. Impact: 0.010 acres
 Temp. Impact: 0 acres
 Crossing Type: Open Cut
 E&S Sheet: ES-4.05 Permit: Individual

Legend

- Sheet Boundary
- PPP 1
- PPP 2
- PPP 1, Bore
- PPP 1, HDD
- PPP 2, Bore
- PPP 2, HDD
- Pullback String
- Permanent Easement (no surface disturbance)
- Permanent ROW
- Temporary ROW
- ATWS
- Permanent Access Road
- Temporary Access Road
- ROW-Travel LOD
- ROW-Travel and Clearing LOD
- Existing Block Valve
- New Block Valve
- Block Valve Setting LOD
- Station LOD
- Bore Pits
- PEM Wetland
- PFO Wetland
- PSS Wetland
- Pond
- Ephemeral Stream
- Intermittent Stream
- Perennial Stream
- Chapter 105 Floodway
- Waived Floodway
- Ch. 106 Floodplain Fringe

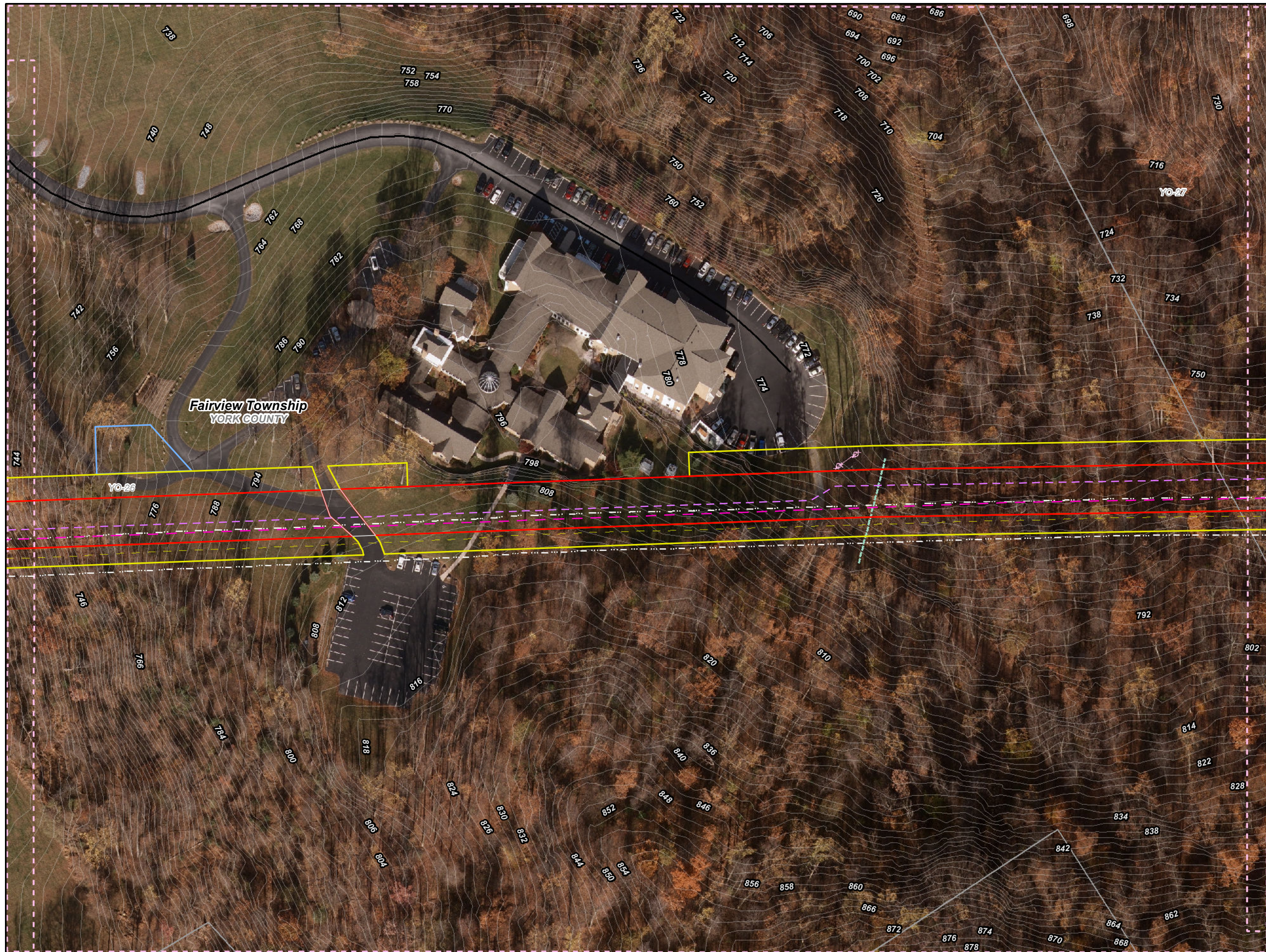


Site Plan for the Sunoco Pennsylvania Pipeline Project, York County, PA.
 Sheet 6 of 26

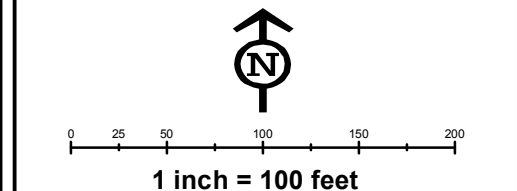
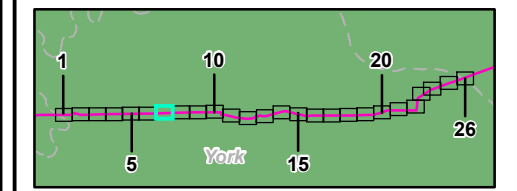
Prepared By: **TETRA TECH** Date: **11/2016**

Base Map: SPLP 2014-2016, Roads from NRCS Geo-spatial Data Giveaway, 100-Year Floodplain from FEMA NFHL, downloaded 9/2016. Aquatics, TT 2013-2016.
 Coordinate System: NAD 83 Stateplane, PA South, Feet

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- Legend**
- Sheet Boundary
 - PPP 1
 - PPP 2
 - PPP 1, Bore
 - PPP 1, HDD
 - PPP 2, Bore
 - PPP 2, HDD
 - Pullback String
 - Permanent Easement (no surface disturbance)
 - Permanent ROW
 - Temporary ROW
 - ATWS
 - Permanent Access Road
 - Temporary Access Road
 - ROW-Travel LOD
 - ROW-Travel and Clearing LOD
 - Existing Block Valve
 - New Block Valve
 - Block Valve Setting LOD
 - Station LOD
 - Bore Pits
 - PEM Wetland
 - PFO Wetland
 - PSS Wetland
 - Pond
 - Ephemeral Stream
 - Intermittent Stream
 - Perennial Stream
 - Chapter 105 Floodway
 - Waived Floodway
 - Ch. 106 Floodplain Fringe

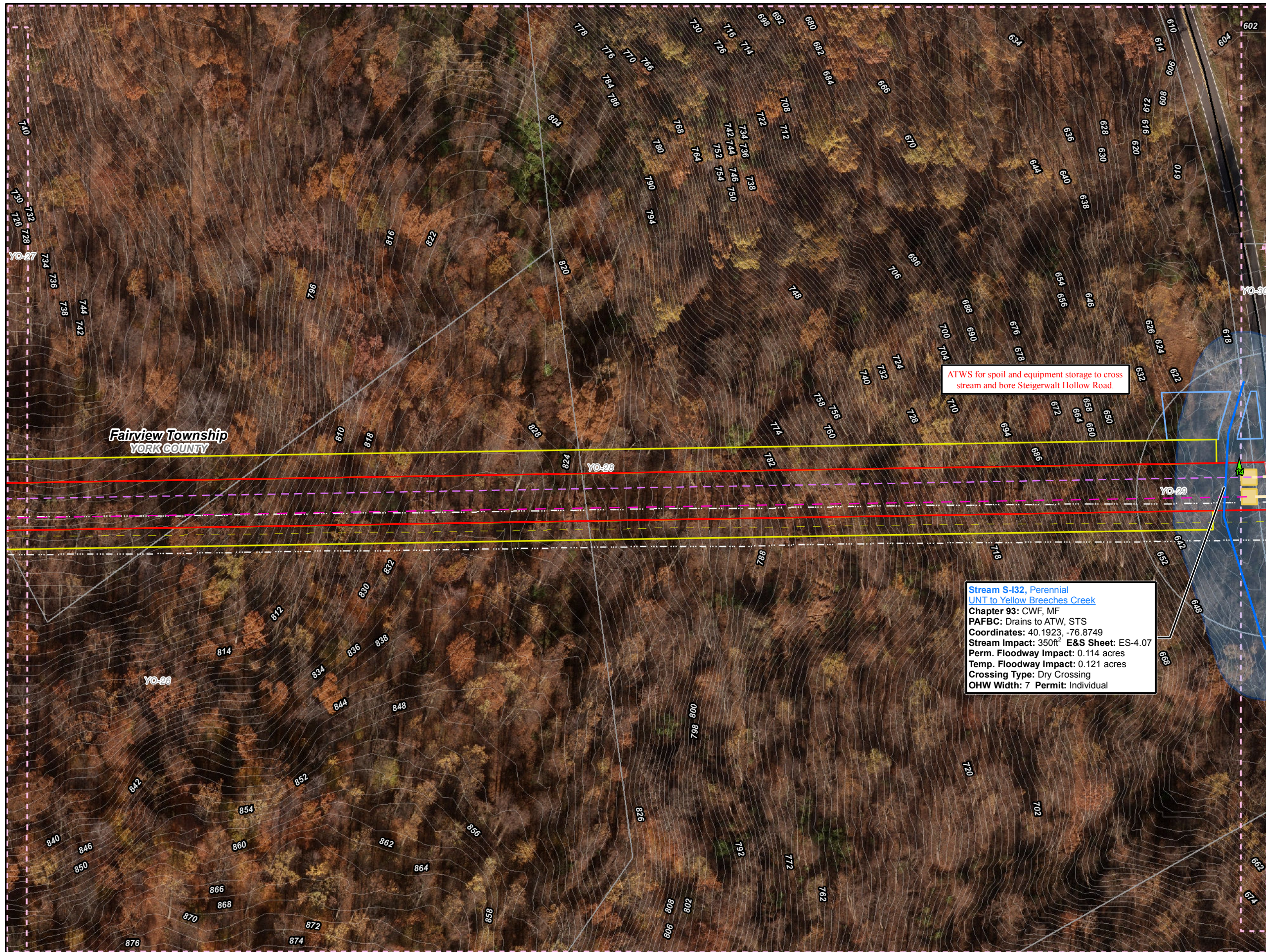


**Site Plan for the Sunoco
Pennsylvania Pipeline Project,
York County, PA.
Sheet 7 of 26**

Prepared By: TETRA TECH	Date: 11/2016
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Base Map; SPLP 2014-2016, Roads from NRCS Geo-spatial Data Giveaway, 100-Year Floodplain from FEMA NFHL, downloaded 9/2016. Aquatics, TT 2013-2016.
Coordinate System: NAD 83 Stateplane, PA South, Feet

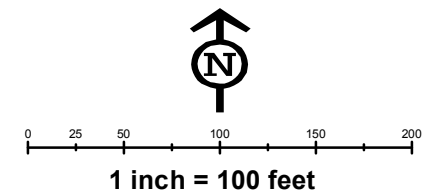
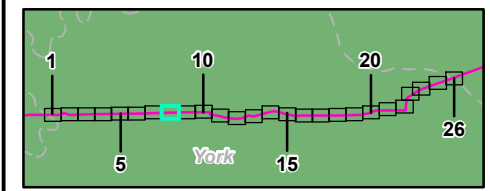
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- Legend**
- Sheet Boundary
 - PPP 1
 - PPP 2
 - PPP 1, Bore
 - PPP 1, HDD
 - PPP 2, Bore
 - PPP 2, HDD
 - Pullback String
 - Permanent Easement (no surface disturbance)
 - Permanent ROW
 - Temporary ROW
 - ATWS
 - Permanent Access Road
 - Temporary Access Road
 - ROW-Travel LOD
 - ROW-Travel and Clearing LOD
 - Existing Block Valve
 - New Block Valve
 - Block Valve Setting LOD
 - Station LOD
 - Bore Pits
 - PEM Wetland
 - PFO Wetland
 - PSS Wetland
 - Pond
 - Ephemeral Stream
 - Intermittent Stream
 - Perennial Stream
 - Chapter 105 Floodway
 - Waived Floodway
 - Ch. 106 Floodplain Fringe

ATWS for spoil and equipment storage to cross stream and bore Steigerwalt Hollow Road.

Stream S-132, Perennial
 UNT to Yellow Breeches Creek
 Chapter 93: CWF, MF
 PAFBC: Drains to ATWS, STS
 Coordinates: 40.1923, -76.8749
 Stream Impact: 350ft² E&S Sheet: ES-4.07
 Perm. Floodway Impact: 0.114 acres
 Temp. Floodway Impact: 0.121 acres
 Crossing Type: Dry Crossing
 OHW Width: 7 Permit: Individual

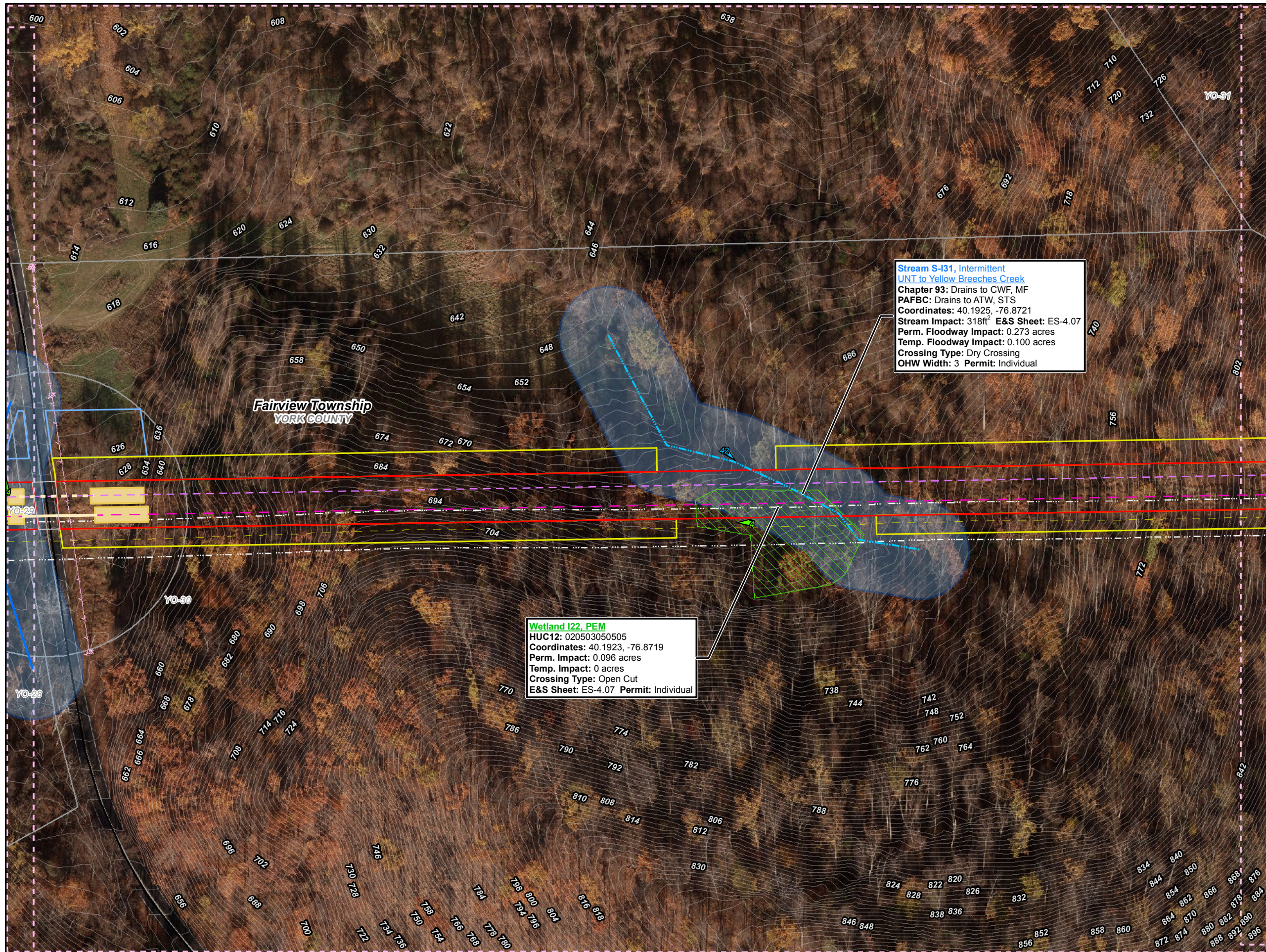


**Site Plan for the Sunoco
 Pennsylvania Pipeline Project,
 York County, PA.
 Sheet 8 of 26**

Prepared By: TETRA TECH	Date: 11/2016
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Base Map: SPLP 2014-2016, Roads from NRCS Geo-spatial Data Giveaway, 100-Year Floodplain from FEMA NFHL, downloaded 9/2016. Aquatics, TT 2013-2016.
 Coordinate System: NAD 83 Stateplane, PA South, Feet

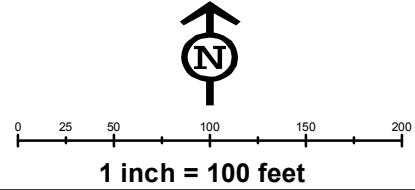
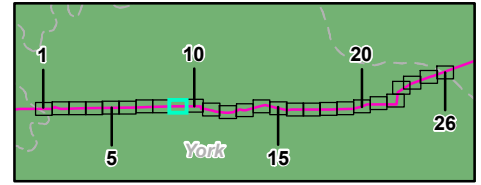
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Stream S-131, Intermittent
 UNT to Yellow Breeches Creek
 Chapter 93: Drains to CWF, MF
 PAFBC: Drains to ATW, STS
 Coordinates: 40.1925, -76.8721
 Stream Impact: 318ft² E&S Sheet: ES-4.07
 Perm. Floodway Impact: 0.273 acres
 Temp. Floodway Impact: 0.100 acres
 Crossing Type: Dry Crossing
 OHW Width: 3 Permit: Individual

Wetland I22, PEM
 HUC12: 020503050505
 Coordinates: 40.1923, -76.8719
 Perm. Impact: 0.096 acres
 Temp. Impact: 0 acres
 Crossing Type: Open Cut
 E&S Sheet: ES-4.07 Permit: Individual

- Legend**
- Sheet Boundary
 - PPP 1
 - PPP 2
 - PPP 1, Bore
 - PPP 1, HDD
 - PPP 2, Bore
 - PPP 2, HDD
 - Pullback String
 - Permanent Easement (no surface disturbance)
 - Permanent ROW
 - Temporary ROW
 - ATWS
 - Permanent Access Road
 - Temporary Access Road
 - ROW-Travel LOD
 - ROW-Travel and Clearing LOD
 - Existing Block Valve
 - New Block Valve
 - Block Valve Setting LOD
 - Station LOD
 - Bore Pits
 - PEM Wetland
 - PFO Wetland
 - PSS Wetland
 - Pond
 - Ephemeral Stream
 - Intermittent Stream
 - Perennial Stream
 - Chapter 105 Floodway
 - Waived Floodway
 - Ch. 106 Floodplain Fringe

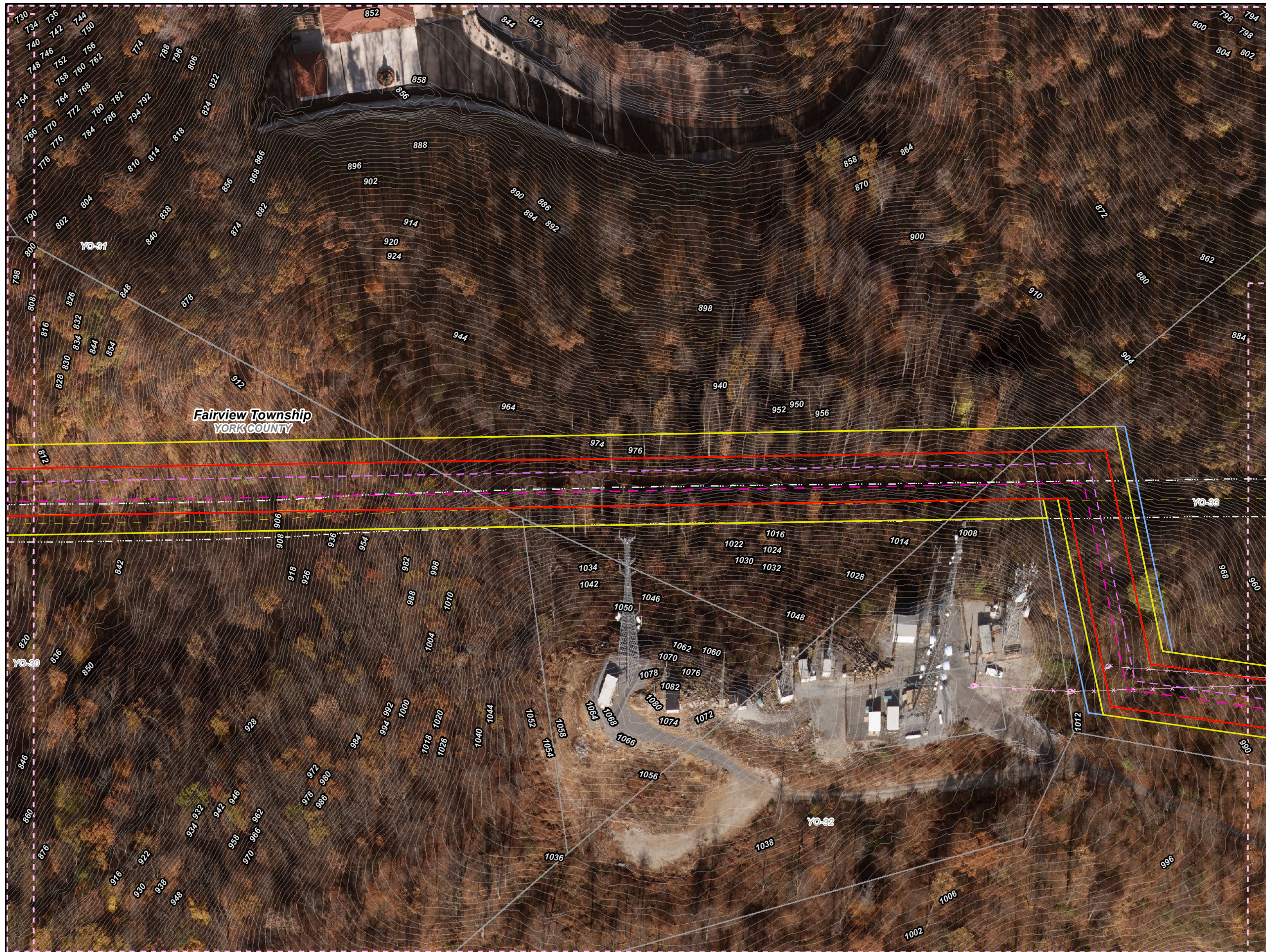


**Site Plan for the Sunoco
 Pennsylvania Pipeline Project,
 York County, PA.
 Sheet 9 of 26**

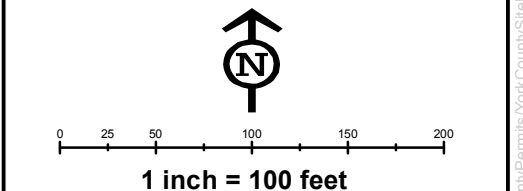
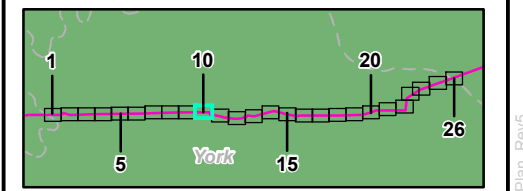
Prepared By: TETRA TECH	Date: 11/2016
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Base Map: SPLP 2014-2016, Roads from NRCS Geospatial Data Giveaway, 100-Year Floodplain from FEMA NFHL, downloaded 9/2016. Aquatics, TT 2013-2016.
 Coordinate System: NAD 83 Stateplane, PA South, Feet

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- Legend**
- Sheet Boundary
 - PPP 1
 - PPP 2
 - PPP 1, Bore
 - PPP 1, HDD
 - PPP 2, Bore
 - PPP 2, HDD
 - Pullback String
 - Permanent Easement (no surface disturbance)
 - Permanent ROW
 - Temporary ROW
 - ATWS
 - Permanent Access Road
 - Temporary Access Road
 - ROW-Travel LOD
 - ROW-Travel and Clearing LOD
 - Existing Block Valve
 - New Block Valve
 - Block Valve Setting LOD
 - Station LOD
 - Bore Pits
 - PEM Wetland
 - PFO Wetland
 - PSS Wetland
 - Pond
 - Ephemeral Stream
 - Intermittent Stream
 - Perennial Stream
 - Chapter 105 Floodway
 - Waived Floodway
 - Ch. 106 Floodplain Fringe

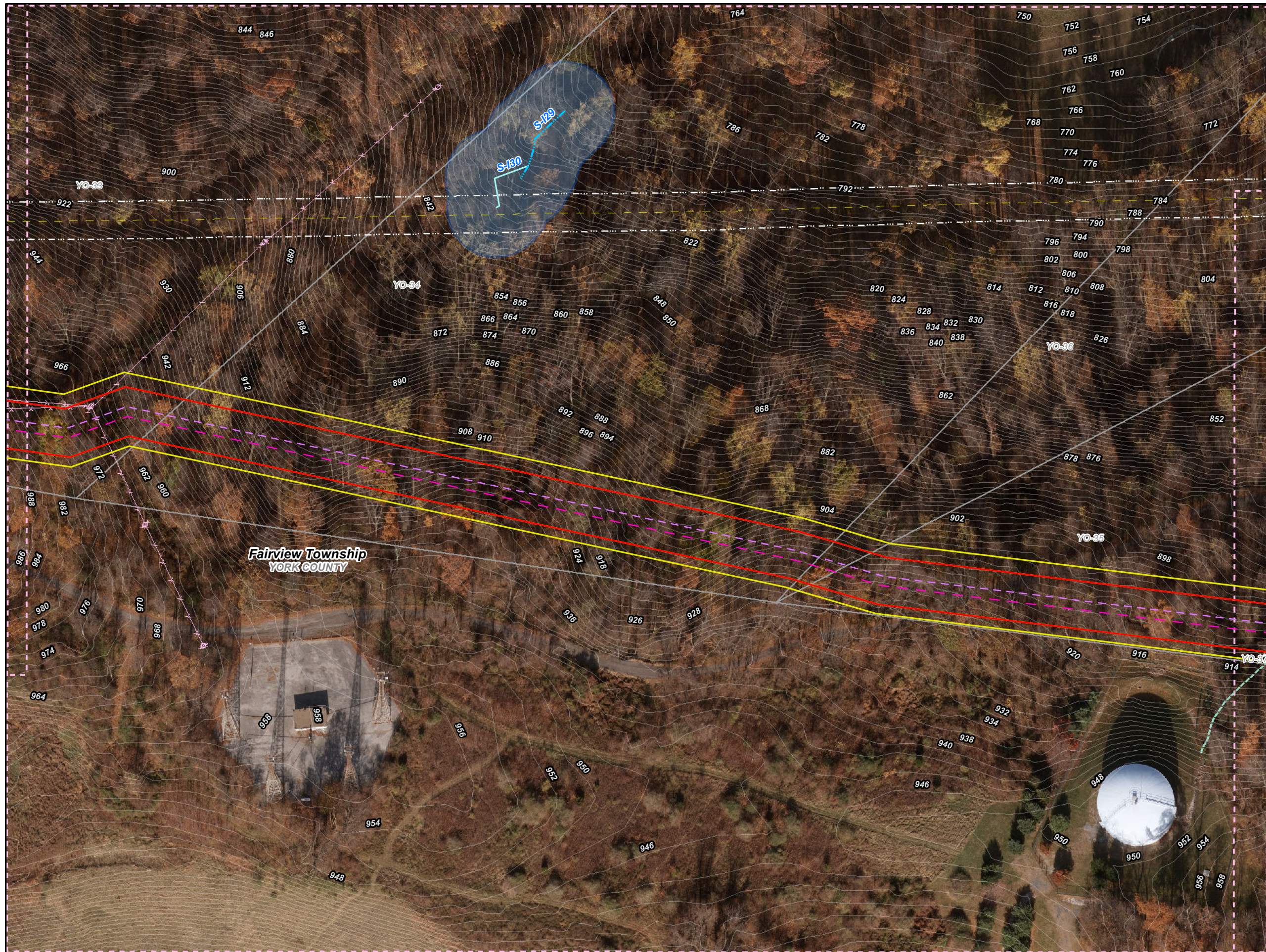


**Site Plan for the Sunoco
Pennsylvania Pipeline Project,
York County, PA.
Sheet 10 of 26**

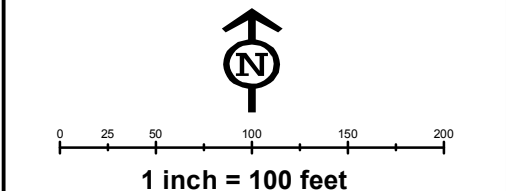
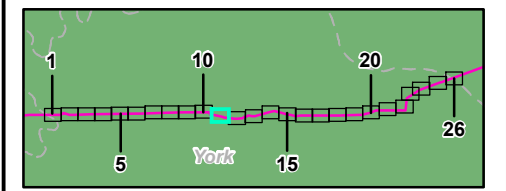
Prepared By: TETRA TECH	Date: 11/2016
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Base Map; SPLP 2014-2016, Roads from NRCS Geo-spatial Data Giveaway, 100-Year Floodplain from FEMA NFHL, downloaded 9/2016. Aquatics, TT 2013-2016.
Coordinate System: NAD 83 Stateplane, PA South, Feet

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- Legend**
- Sheet Boundary
 - PPP 1
 - PPP 2
 - PPP 1, Bore
 - PPP 1, HDD
 - PPP 2, Bore
 - PPP 2, HDD
 - Pullback String
 - Permanent Easement (no surface disturbance)
 - Permanent ROW
 - Temporary ROW
 - ATWS
 - Permanent Access Road
 - Temporary Access Road
 - ROW-Travel LOD
 - ROW-Travel and Clearing LOD
 - Existing Block Valve
 - New Block Valve
 - Block Valve Setting LOD
 - Station LOD
 - Bore Pits
 - PEM Wetland
 - PFO Wetland
 - PSS Wetland
 - Pond
 - Ephemeral Stream
 - Intermittent Stream
 - Perennial Stream
 - Chapter 105 Floodway
 - Waived Floodway
 - Ch. 106 Floodplain Fringe

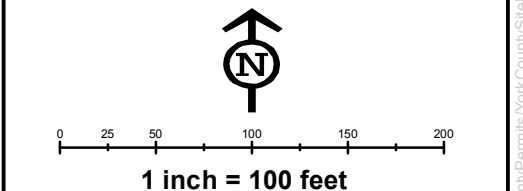
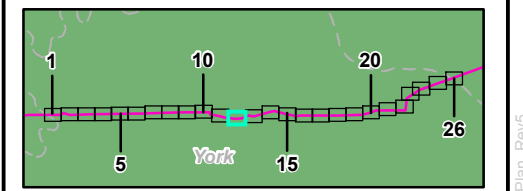
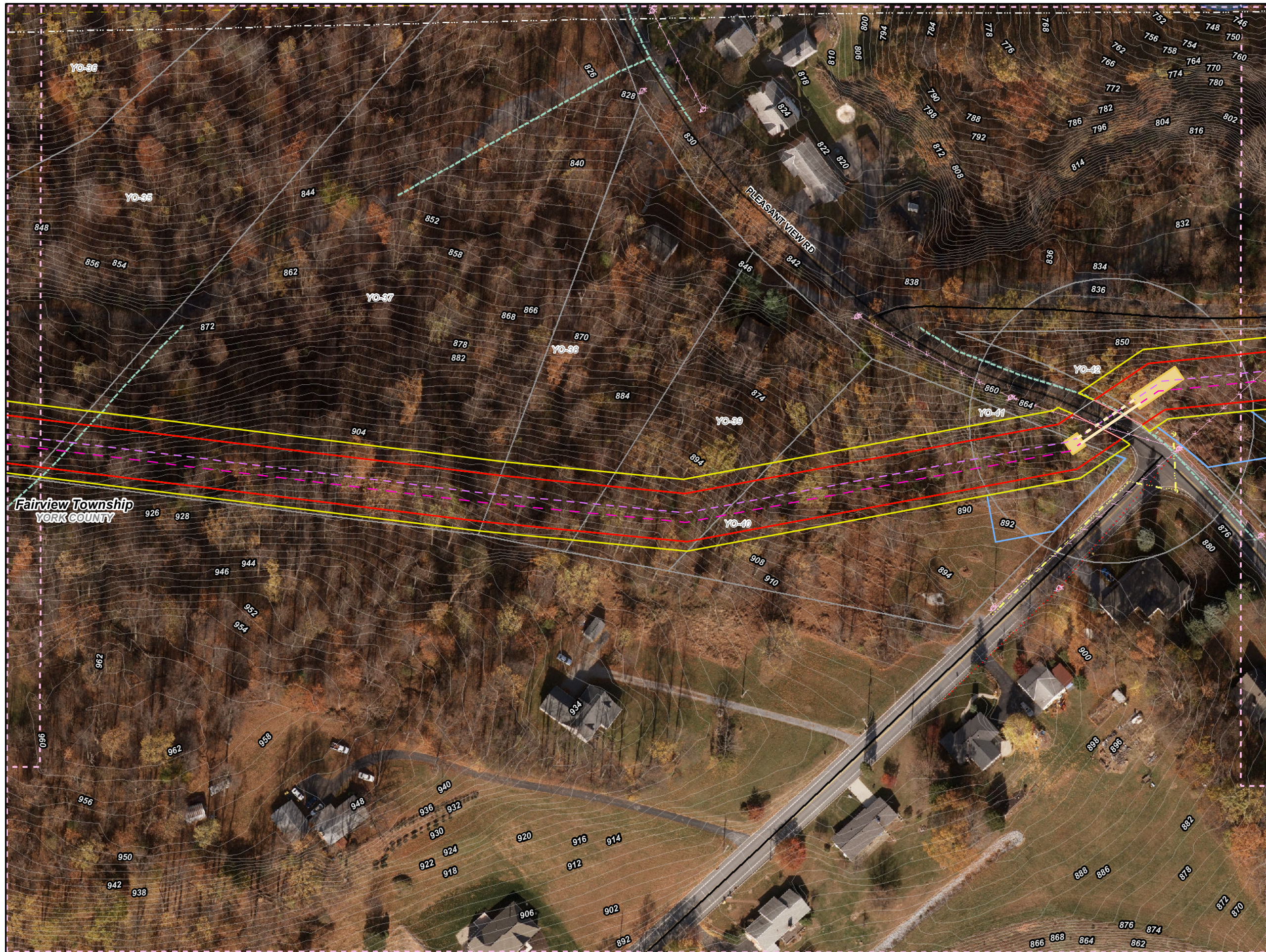


**Site Plan for the Sunoco
Pennsylvania Pipeline Project,
York County, PA.
Sheet 11 of 26**

Prepared By: TETRA TECH	Date: 11/2016
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Base Map; SPLP 2014-2016, Roads from NRCS Geo-spatial Data Giveaway, 100-Year Floodplain from FEMA NFHL, downloaded 9/2016. Aquatics, TT 2013-2016.
Coordinate System: NAD 83 Stateplane, PA South, Feet

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**Site Plan for the Sunoco
Pennsylvania Pipeline Project,
York County, PA.
Sheet 12 of 26**

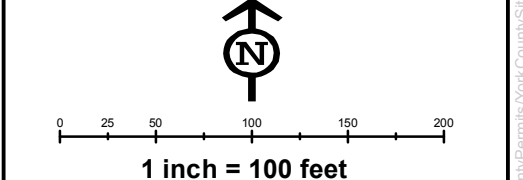
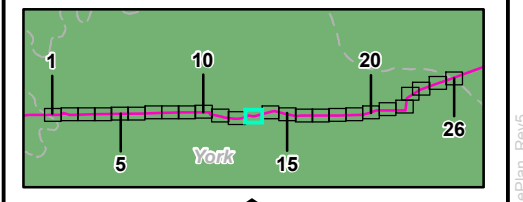
Prepared By: TETRA TECH	Date: 11/2016
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Base Map; SPLP 2014-2016, Roads from NRCS Geo-spatial Data Giveaway, 100-Year Floodplain from FEMA NFHL, downloaded 9/2016. Aquatics, TT 2013-2016.
Coordinate System: NAD 83 Stateplane, PA South, Feet

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- Legend**
- Sheet Boundary
 - PPP 1
 - PPP 2
 - PPP 1, Bore
 - PPP 1, HDD
 - PPP 2, Bore
 - PPP 2, HDD
 - Pullback String
 - Permanent Easement (no surface disturbance)
 - Permanent ROW
 - Temporary ROW
 - ATWS
 - Permanent Access Road
 - Temporary Access Road
 - ROW-Travel LOD
 - ROW-Travel and Clearing LOD
 - Existing Block Valve
 - New Block Valve
 - Block Valve Setting LOD
 - Station LOD
 - Bore Pits
 - PEM Wetland
 - PFO Wetland
 - PSS Wetland
 - Pond
 - Ephemeral Stream
 - Intermittent Stream
 - Perennial Stream
 - Chapter 105 Floodway
 - Waived Floodway
 - Ch. 106 Floodplain Fringe

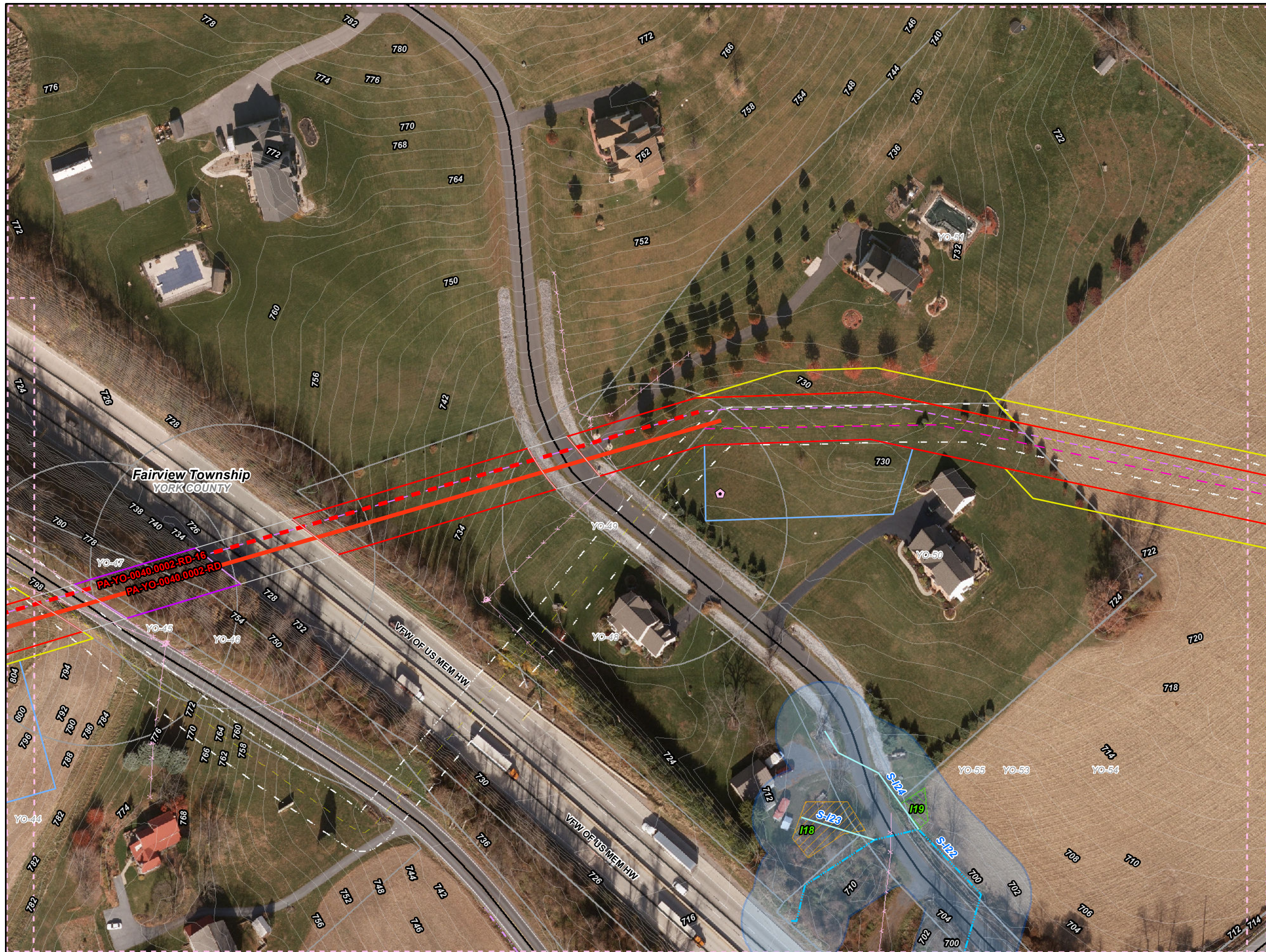


**Site Plan for the Sunoco
Pennsylvania Pipeline Project,
York County, PA.
Sheet 13 of 26**

Prepared By: 	Date: 11/2016
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Base Map; SPLP 2014-2016, Roads from NRCS Geo-spatial Data Giveaway, 100-Year Floodplain from FEMA NFHL, downloaded 9/2016. Aquatics, TT 2013-2016.
Coordinate System: NAD 83 Stateplane, PA South, Feet

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Legend

- Sheet Boundary
- PPP 1
- PPP 2
- PPP 1, Bore
- PPP 1, HDD
- PPP 2, Bore
- PPP 2, HDD
- Pullback String
- Permanent Easement (no surface disturbance)
- Permanent ROW
- Temporary ROW
- ATWS
- Permanent Access Road
- Temporary Access Road
- ROW-Travel LOD
- ROW-Travel and Clearing LOD
- Existing Block Valve
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- Block Valve Setting LOD
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- PEM Wetland
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- PSS Wetland
- Pond
- Ephemeral Stream
- Intermittent Stream
- Perennial Stream
- Chapter 105 Floodway
- Waived Floodway
- Ch. 106 Floodplain Fringe

1 10 20 26
5 York 15

0 25 50 100 150 200

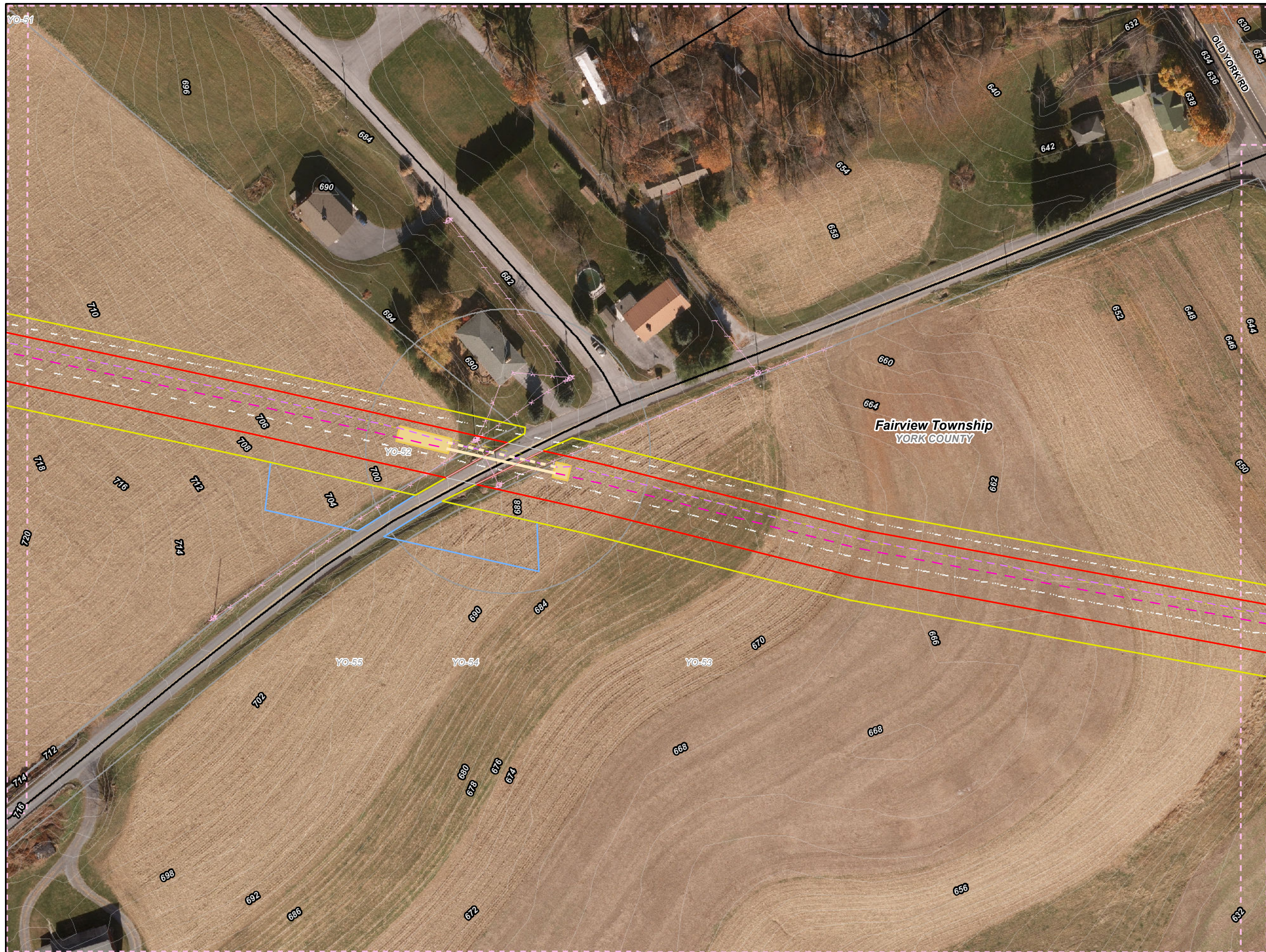
1 inch = 100 feet

Site Plan for the Sunoco Pennsylvania Pipeline Project, York County, PA.
Sheet 14 of 26

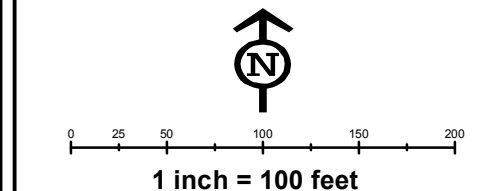
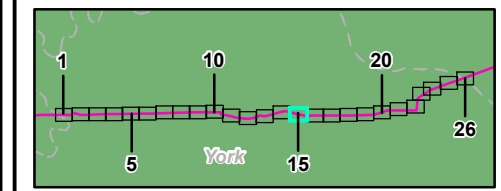
Prepared By:	Date:
TETRA TECH	11/2016

Base Map: SPLP 2014-2016, Roads from NRCS Geo-spatial Data Giveaway, 100-Year Floodplain from FEMA NFHL, downloaded 9/2016. Aquatics, TT 2013-2016.
Coordinate System: NAD 83 Stateplane, PA South, Feet

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- Legend**
- Sheet Boundary
 - PPP 1
 - PPP 2
 - PPP 1, Bore
 - PPP 1, HDD
 - PPP 2, Bore
 - PPP 2, HDD
 - Pullback String
 - Permanent Easement (no surface disturbance)
 - Permanent ROW
 - Temporary ROW
 - ATWS
 - Permanent Access Road
 - Temporary Access Road
 - ROW-Travel LOD
 - ROW-Travel and Clearing LOD
 - Existing Block Valve
 - New Block Valve
 - Block Valve Setting LOD
 - Station LOD
 - Bore Pits
 - PEM Wetland
 - PFO Wetland
 - PSS Wetland
 - Pond
 - Ephemeral Stream
 - Intermittent Stream
 - Perennial Stream
 - Chapter 105 Floodway
 - Waived Floodway
 - Ch. 106 Floodplain Fringe

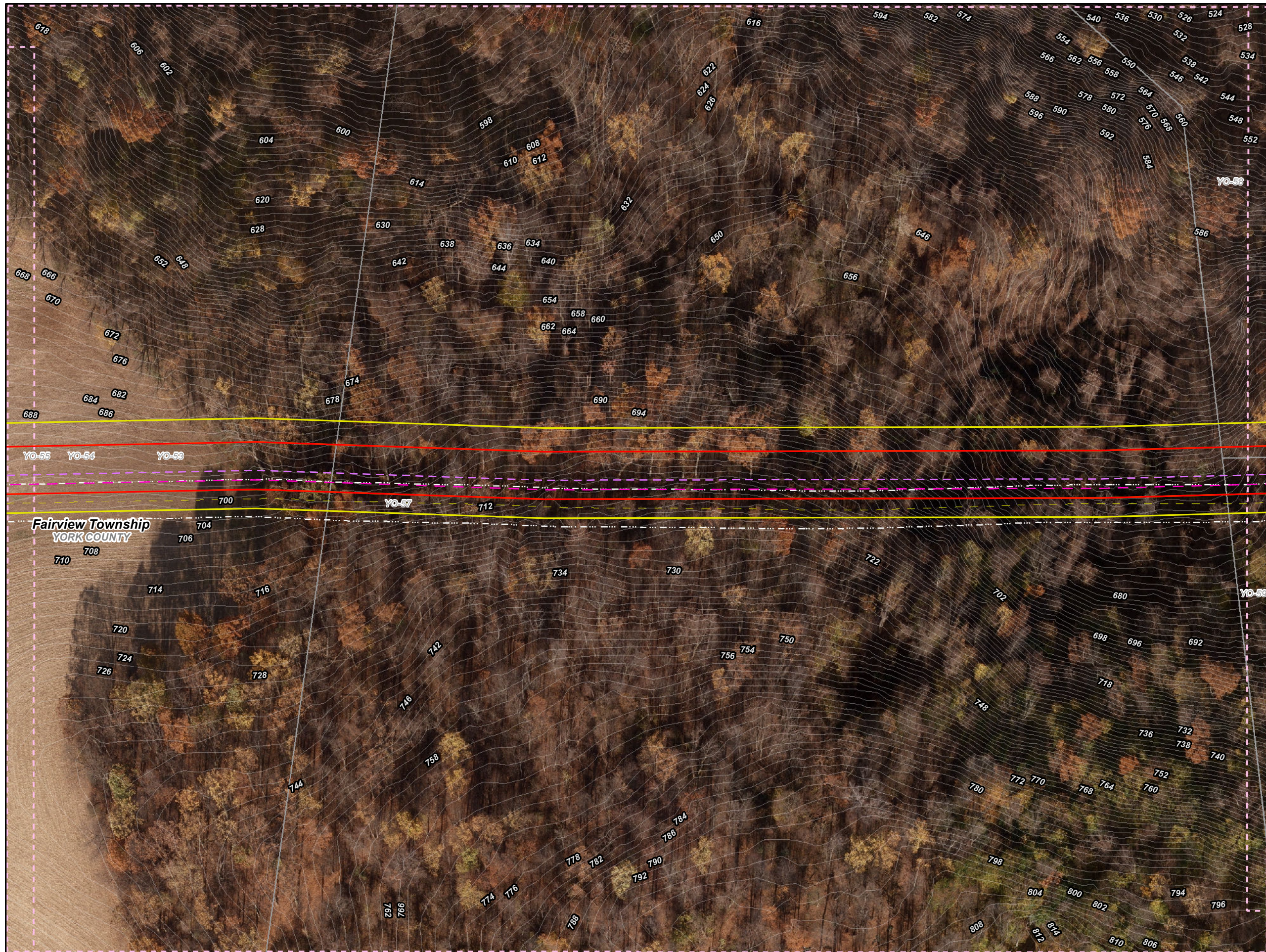


**Site Plan for the Sunoco
Pennsylvania Pipeline Project,
York County, PA.
Sheet 15 of 26**

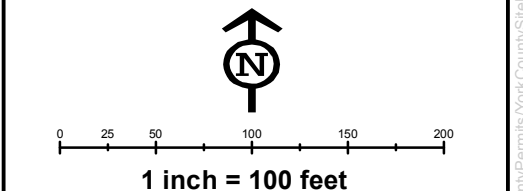
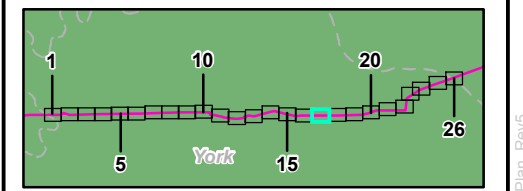
Prepared By: TETRA TECH	Date: 11/2016
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Base Map; SPLP 2014-2016, Roads from NRCS Geo-spatial Data Giveaway, 100-Year Floodplain from FEMA NFHL, downloaded 9/2016. Aquatics, TT 2013-2016.
Coordinate System: NAD 83 Stateplane, PA South, Feet

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- Legend**
- Sheet Boundary
 - PPP 1
 - PPP 2
 - PPP 1, Bore
 - PPP 1, HDD
 - PPP 2, Bore
 - PPP 2, HDD
 - Pullback String
 - Permanent Easement (no surface disturbance)
 - Permanent ROW
 - Temporary ROW
 - ATWS
 - Permanent Access Road
 - Temporary Access Road
 - ROW-Travel LOD
 - ROW-Travel and Clearing LOD
 - Existing Block Valve
 - New Block Valve
 - Block Valve Setting LOD
 - Station LOD
 - Bore Pits
 - PEM Wetland
 - PFO Wetland
 - PSS Wetland
 - Pond
 - Ephemeral Stream
 - Intermittent Stream
 - Perennial Stream
 - Chapter 105 Floodway
 - Waived Floodway
 - Ch. 106 Floodplain Fringe



**Site Plan for the Sunoco
Pennsylvania Pipeline Project,
York County, PA.
Sheet 17 of 26**

Prepared By: TETRA TECH	Date: 11/2016
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Base Map; SPLP 2014-2016, Roads from NRCS Geo-spatial Data Giveaway, 100-Year Floodplain from FEMA NFHL, downloaded 9/2016. Aquatics, TT 2013-2016.
Coordinate System: NAD 83 Stateplane, PA South, Feet

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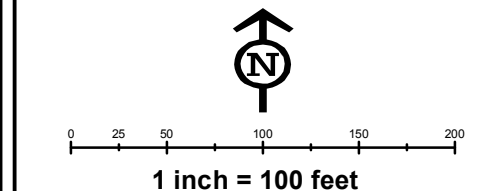
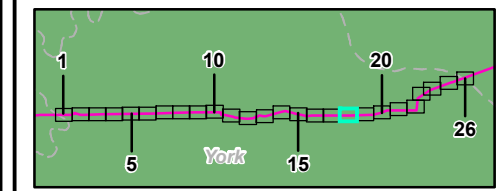


Stream S-127, Ephemeral, PA Waived
 UNT to Marsh Run
 Chapter 93: Drains to WWF, MF
 Coordinates: 40.1914, -76.8324
 Stream Impact: 150ft²
 Crossing Type: Dry Crossing
 OHW Width: 3 E&S Sheet: ES-4.14

Fairview Township
 YORK COUNTY

Legend

- Sheet Boundary
- PPP 1
- PPP 2
- PPP 1, Bore
- PPP 1, HDD
- PPP 2, Bore
- PPP 2, HDD
- Pullback String
- Permanent Easement (no surface disturbance)
- Permanent ROW
- Temporary ROW
- ATWS
- Permanent Access Road
- Temporary Access Road
- ROW-Travel LOD
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- PSS Wetland
- Pond
- Ephemeral Stream
- Intermittent Stream
- Perennial Stream
- Chapter 105 Floodway
- Waived Floodway
- Ch. 106 Floodplain Fringe

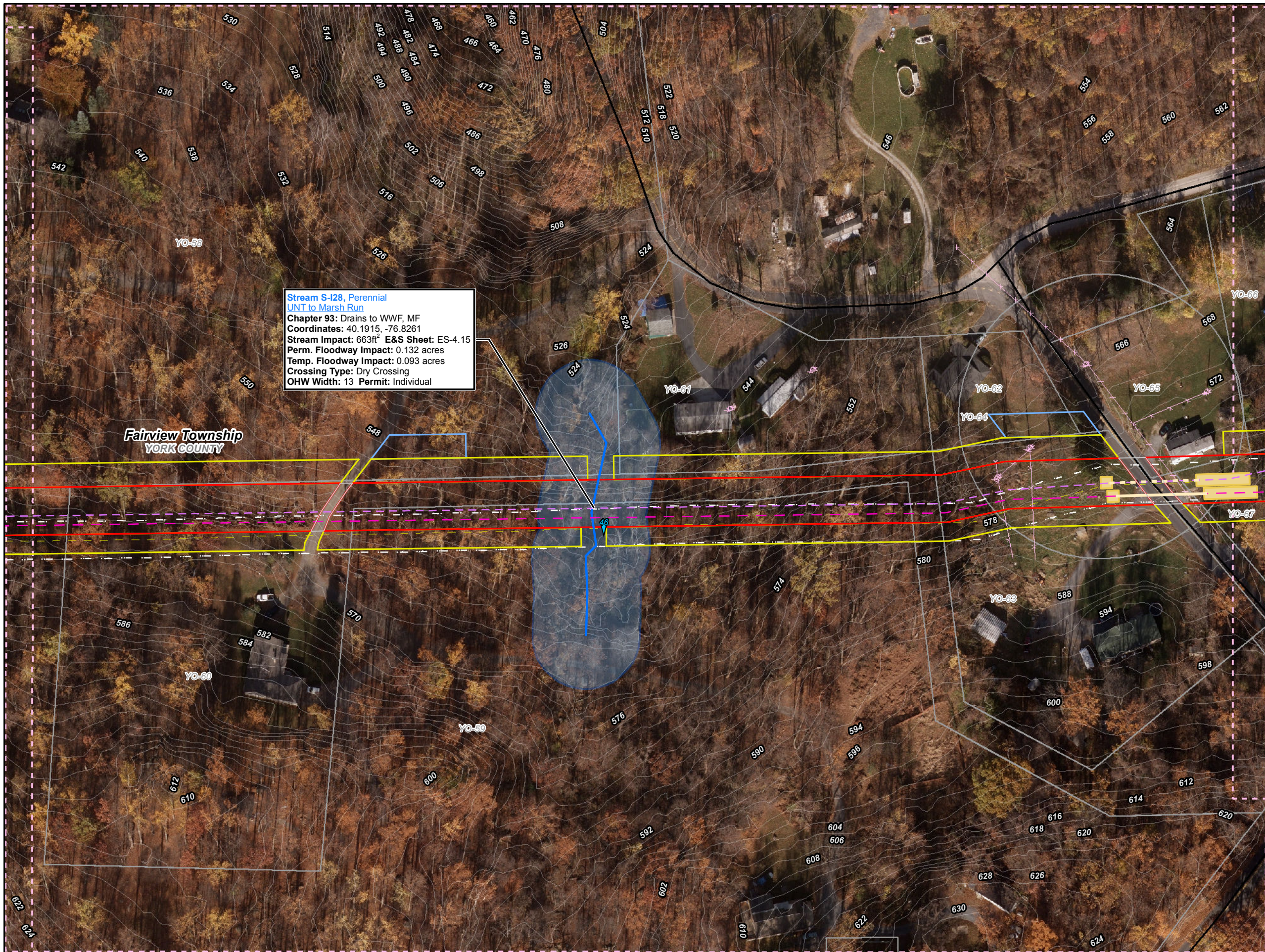


**Site Plan for the Sunoco
 Pennsylvania Pipeline Project,
 York County, PA.
 Sheet 18 of 26**

Prepared By: TETRA TECH	Date: 11/2016
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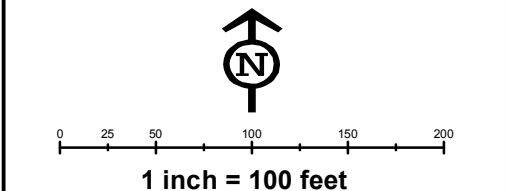
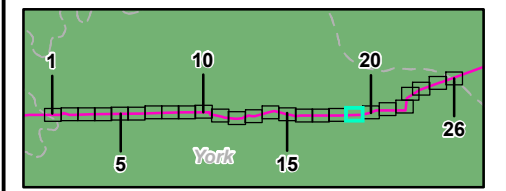
Base Map; SPLP 2014-2016, Roads from NRCS Geo-spatial Data Giveaway, 100-Year Floodplain from FEMA NFHL, downloaded 9/2016. Aquatics, TT 2013-2016.
 Coordinate System: NAD 83 Stateplane, PA South, Feet

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Stream S-128, Perennial
 UNT to Marsh Run
 Chapter 93: Drains to WWF, MF
 Coordinates: 40.1915, -76.8261
 Stream Impact: 663ft² E&S Sheet: ES-4.15
 Perm. Floodway Impact: 0.132 acres
 Temp. Floodway Impact: 0.093 acres
 Crossing Type: Dry Crossing
 OHW Width: 13 Permit: Individual

- Legend**
- Sheet Boundary
 - PPP 1
 - PPP 2
 - PPP 1, Bore
 - PPP 1, HDD
 - PPP 2, Bore
 - PPP 2, HDD
 - Pullback String
 - Permanent Easement (no surface disturbance)
 - Permanent ROW
 - Temporary ROW
 - ATWS
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 - Temporary Access Road
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 - ROW-Travel and Clearing LOD
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 - New Block Valve
 - Block Valve Setting LOD
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 - PEM Wetland
 - PFO Wetland
 - PSS Wetland
 - Pond
 - Ephemeral Stream
 - Intermittent Stream
 - Perennial Stream
 - Chapter 105 Floodway
 - Waived Floodway
 - Ch. 106 Floodplain Fringe

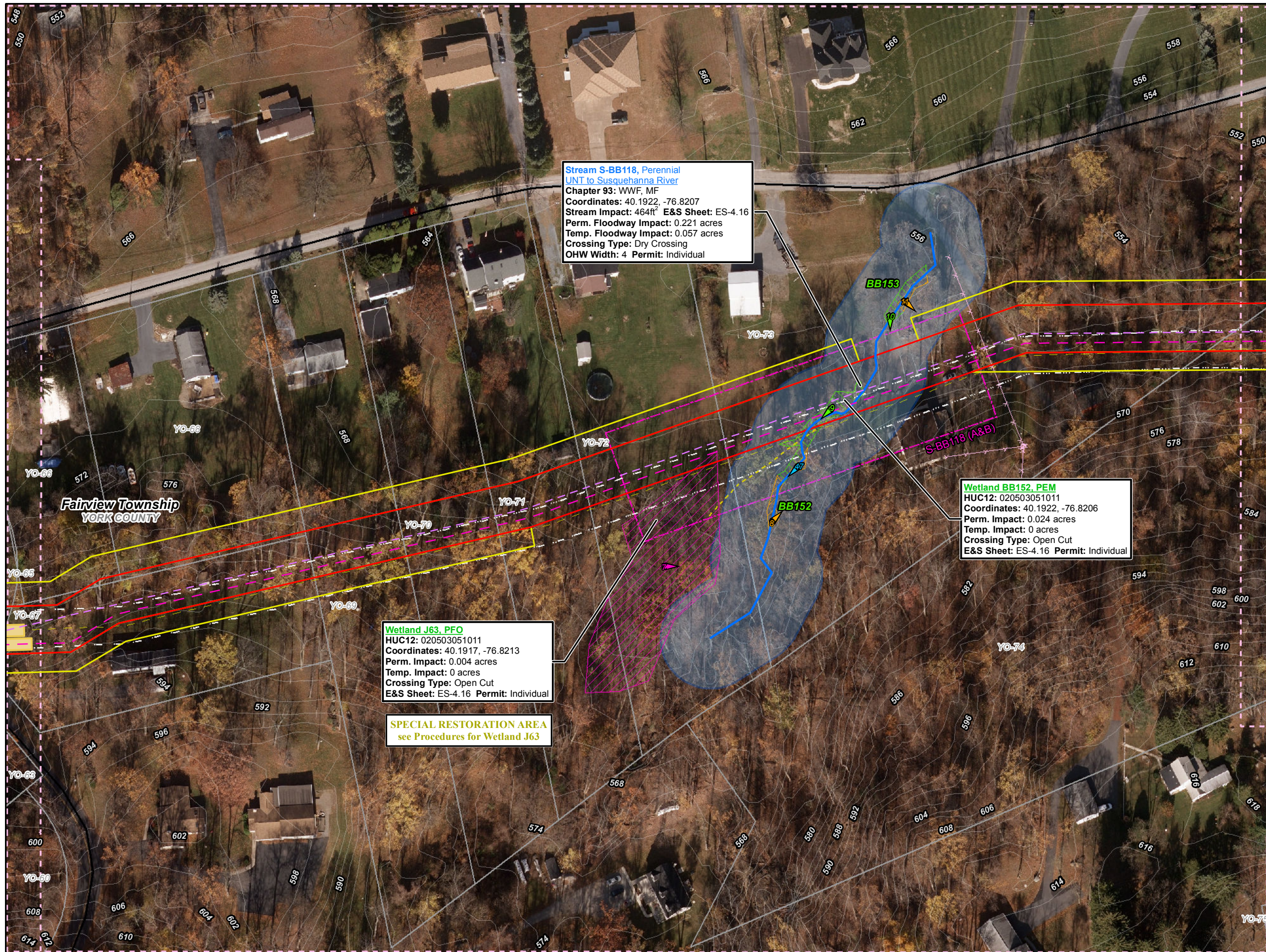


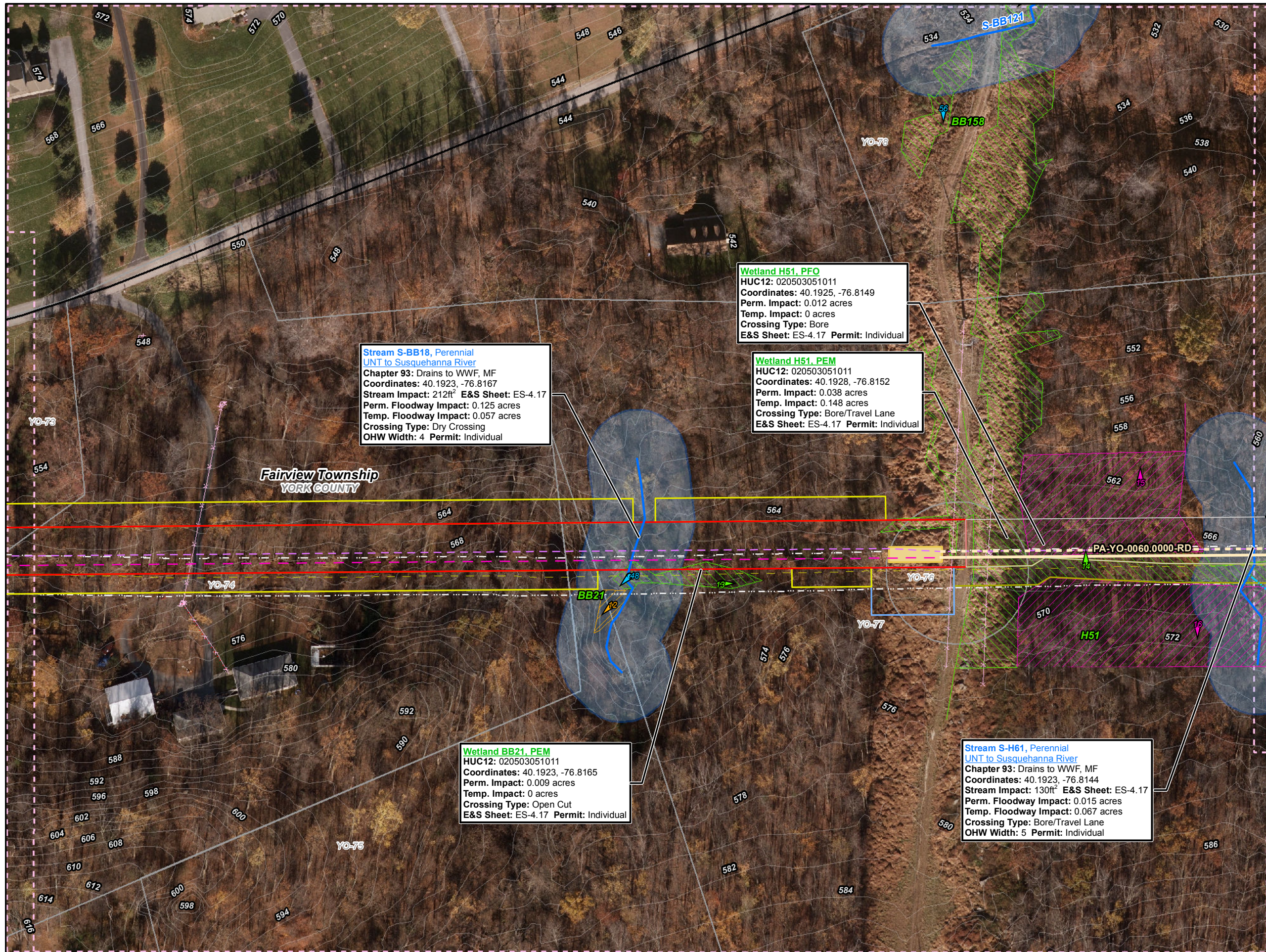
Site Plan for the Sunoco
Pennsylvania Pipeline Project,
York County, PA.
Sheet 19 of 26

Prepared By: 	Date: 11/2016
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Base Map; SPLP 2014-2016, Roads from NRCS Geo-spatial Data Giveaway, 100-Year Floodplain from FEMA NFHL, downloaded 9/2016. Aquatics, TT 2013-2016.
 Coordinate System: NAD 83 Stateplane, PA South, Feet

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Legend

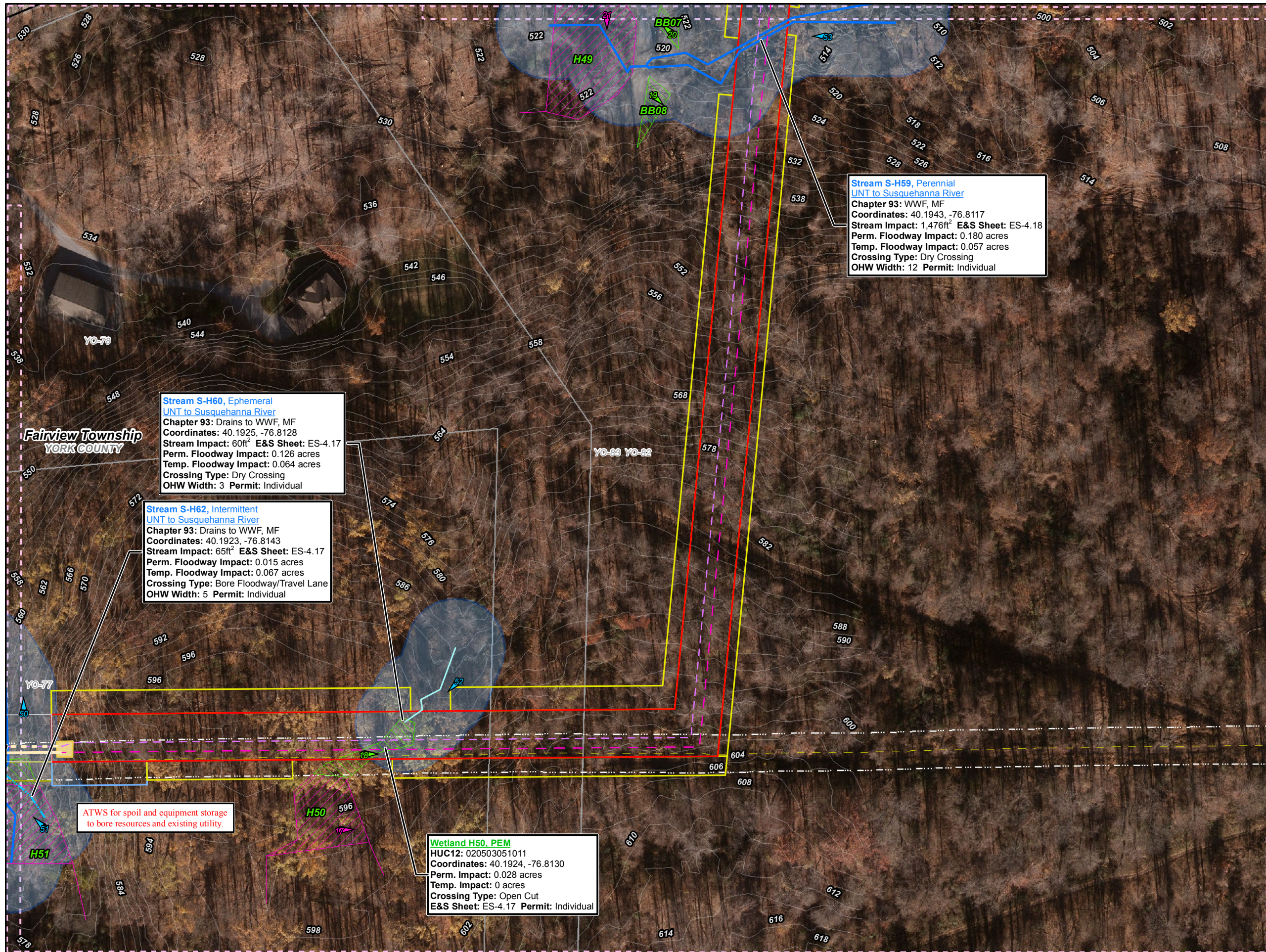
- Sheet Boundary
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- PPP 2
- PPP 1, Bore
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- PPP 2, Bore
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- Pond
- Ephemeral Stream
- Intermittent Stream
- Perennial Stream
- Chapter 105 Floodway
- Waived Floodway
- Ch. 106 Floodplain Fringe

1 inch = 100 feet

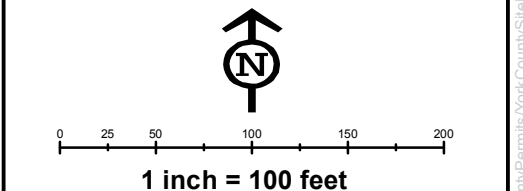
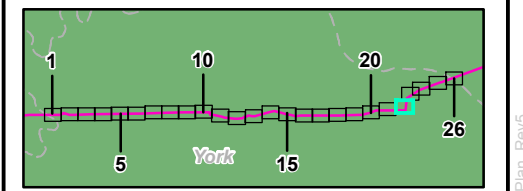
**Site Plan for the Sunoco
Pennsylvania Pipeline Project,
York County, PA.
Sheet 21 of 26**

Prepared By: TETRA TECH	Date: 11/2016
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Base Map; SPLP 2014-2016, Roads from NRCS Geo-spatial Data Giveaway, 100-Year Floodplain from FEMA NFHL, downloaded 9/2016. Aquatics, TT 2013-2016.
Coordinate System: NAD 83 Stateplane, PA South, Feet



- Legend**
- Sheet Boundary
 - PPP 1
 - PPP 2
 - PPP 1, Bore
 - PPP 1, HDD
 - PPP 2, Bore
 - PPP 2, HDD
 - Pullback String
 - Permanent Easement (no surface disturbance)
 - Permanent ROW
 - Temporary ROW
 - ATWS
 - Permanent Access Road
 - Temporary Access Road
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 - PSS Wetland
 - Pond
 - Ephemeral Stream
 - Intermittent Stream
 - Perennial Stream
 - Chapter 105 Floodway
 - Waived Floodway
 - Ch. 106 Floodplain Fringe

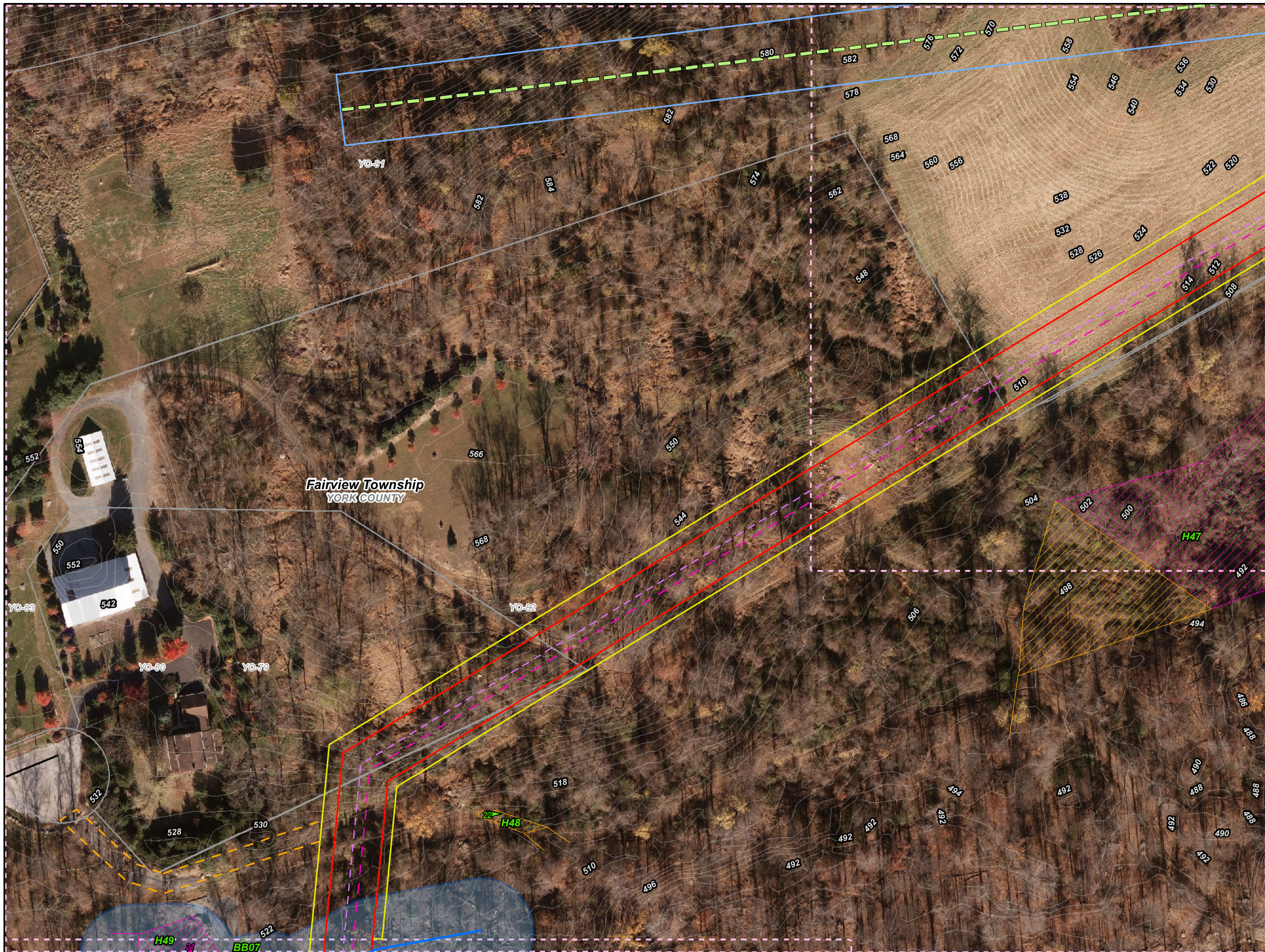


**Site Plan for the Sunoco
Pennsylvania Pipeline Project,
York County, PA.
Sheet 22 of 26**

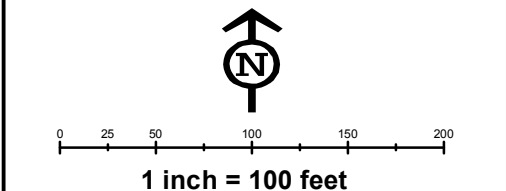
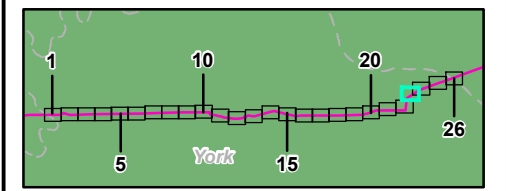
Prepared By: TETRA TECH	Date: 11/2016
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Base Map: SPLP 2014-2016, Roads from NRCS Geo-spatial Data Giveaway, 100-Year Floodplain from FEMA NFHL, downloaded 9/2016. Aquatics, TT 2013-2016.
Coordinate System: NAD 83 Stateplane, PA South, Feet

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- Legend**
- Sheet Boundary
 - PPP 1
 - PPP 2
 - PPP 1, Bore
 - PPP 1, HDD
 - PPP 2, Bore
 - PPP 2, HDD
 - Pullback String
 - Permanent Easement (no surface disturbance)
 - Permanent ROW
 - Temporary ROW
 - ATWS
 - Permanent Access Road
 - Temporary Access Road
 - ROW-Travel LOD
 - ROW-Travel and Clearing LOD
 - Existing Block Valve
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 - Block Valve Setting LOD
 - Station LOD
 - Bore Pits
 - PEM Wetland
 - PFO Wetland
 - PSS Wetland
 - Pond
 - Ephemeral Stream
 - Intermittent Stream
 - Perennial Stream
 - Chapter 105 Floodway
 - Waived Floodway
 - Ch. 106 Floodplain Fringe

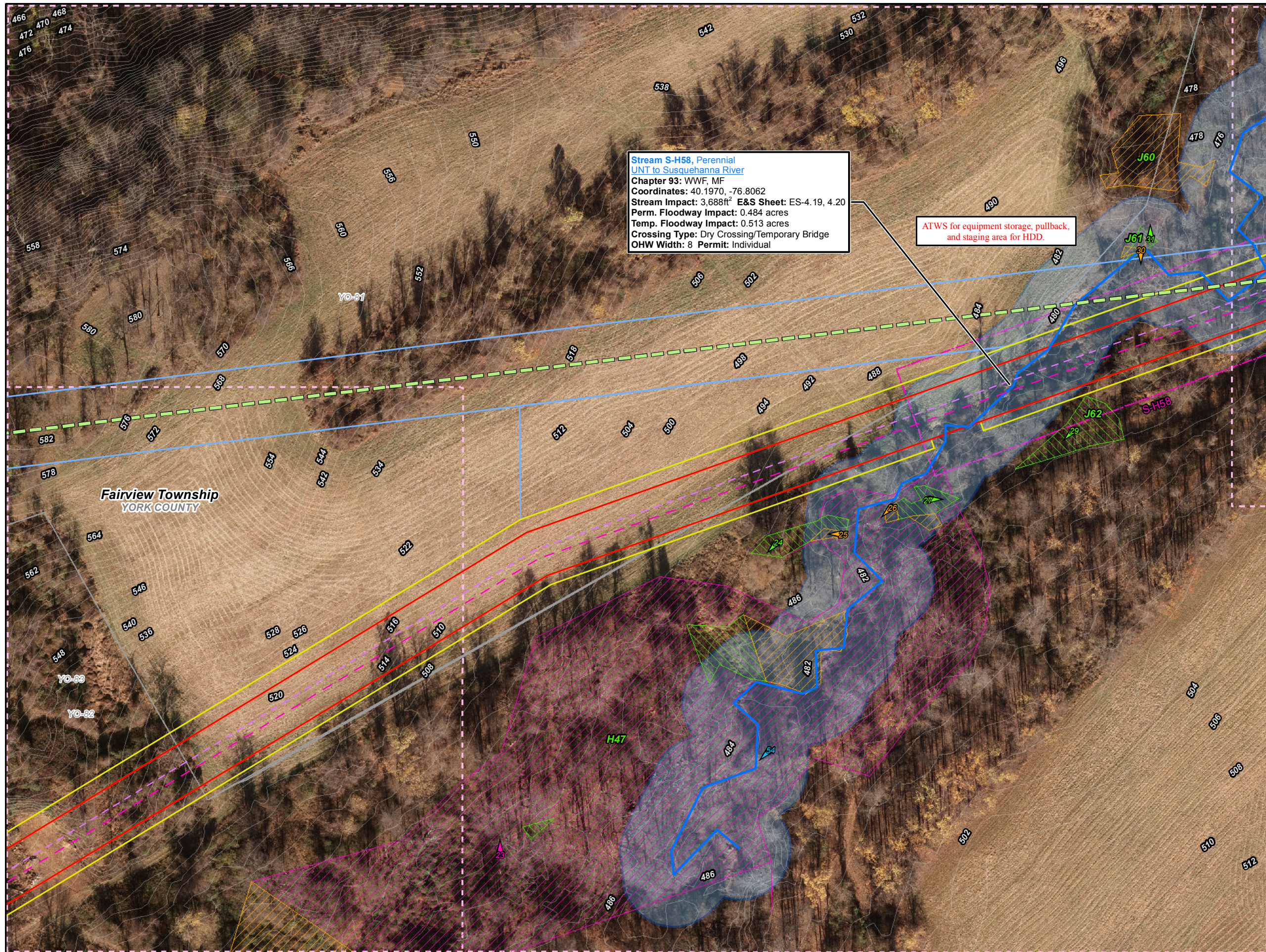


**Site Plan for the Sunoco
Pennsylvania Pipeline Project,
York County, PA.
Sheet 23 of 26**

Prepared By:  TETRA TECH	Date: 11/2016
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Base Map; SPLP 2014-2016, Roads from NRCS Geospatial Data Giveaway, 100-Year Floodplain from FEMA NFHL, downloaded 9/2016. Aquatics, TT 2013-2016.
Coordinate System: NAD 83 Stateplane, PA South, Feet

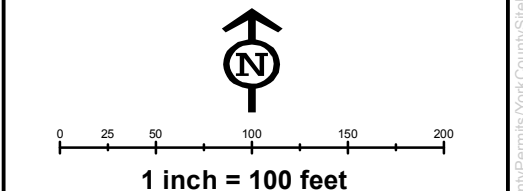
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Stream S-H58, Perennial
 UNT to Susquehanna River
 Chapter 93: WWF, MF
 Coordinates: 40.1970, -76.8062
 Stream Impact: 3,688ft² E&S Sheet: ES-4.19, 4.20
 Perm. Floodway Impact: 0.484 acres
 Temp. Floodway Impact: 0.513 acres
 Crossing Type: Dry Crossing/Temporary Bridge
 OHW Width: 8 Permit: Individual

ATWS for equipment storage, pullback,
 and staging area for HDD.

- Legend**
- Sheet Boundary
 - PPP 1
 - PPP 2
 - PPP 1, Bore
 - PPP 1, HDD
 - PPP 2, Bore
 - PPP 2, HDD
 - Pullback String
 - Permanent Easement (no surface disturbance)
 - Permanent ROW
 - Temporary ROW
 - ATWS
 - Permanent Access Road
 - Temporary Access Road
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 - Existing Block Valve
 - New Block Valve
 - Block Valve Setting LOD
 - Station LOD
 - Bore Pits
 - PEM Wetland
 - PFO Wetland
 - PSS Wetland
 - Pond
 - Ephemeral Stream
 - Intermittent Stream
 - Perennial Stream
 - Chapter 105 Floodway
 - Waived Floodway
 - Ch. 106 Floodplain Fringe

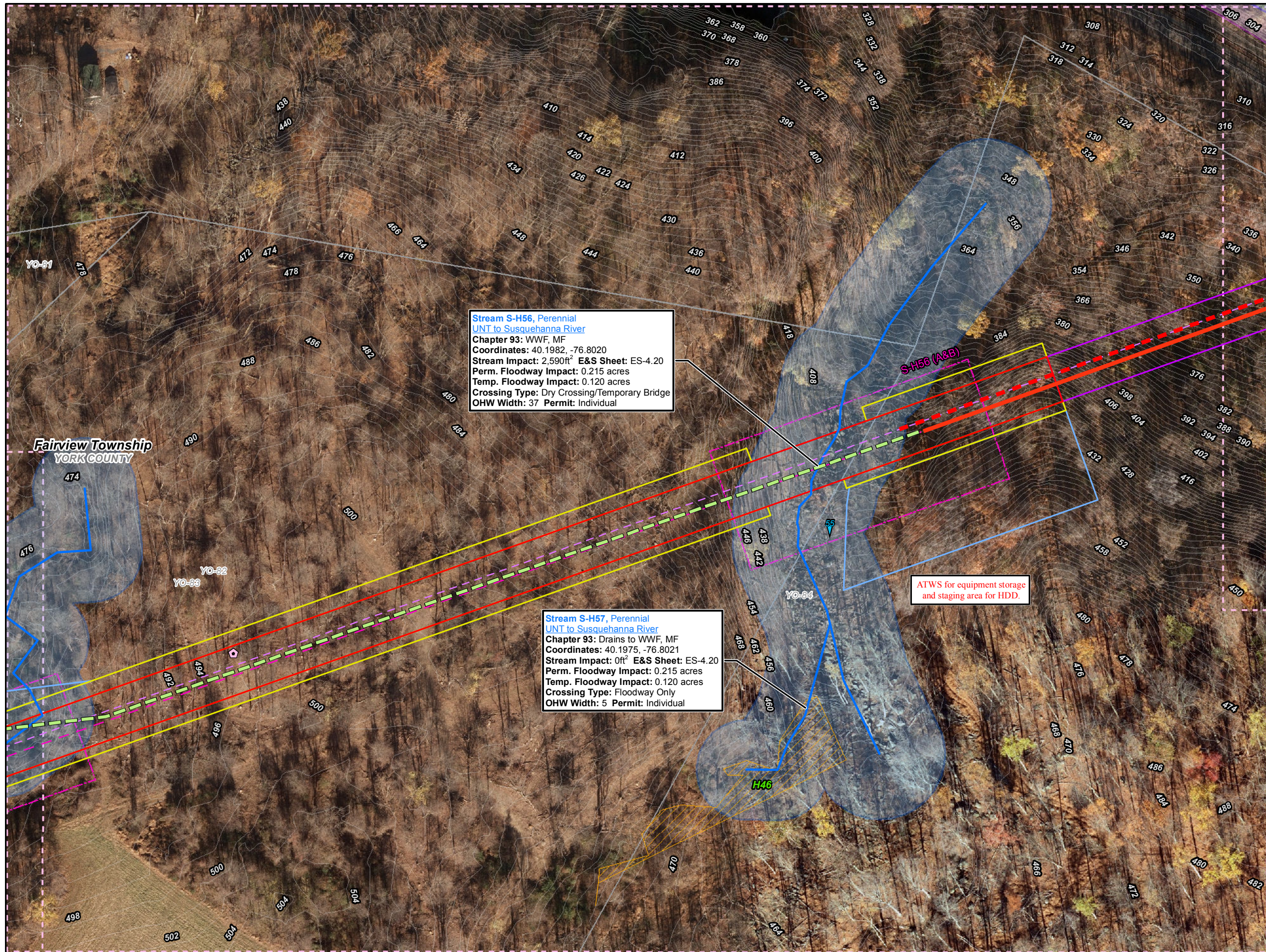


**Site Plan for the Sunoco
 Pennsylvania Pipeline Project,
 York County, PA.
 Sheet 24 of 26**

Prepared By: 	Date: 11/2016
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Base Map: SPLP 2014-2016, Roads from NRCS Geo-spatial Data Giveaway, 100-Year Floodplain from FEMA NFHL, downloaded 9/2016. Aquatics, TT 2013-2016.
 Coordinate System: NAD 83 Stateplane, PA South, Feet

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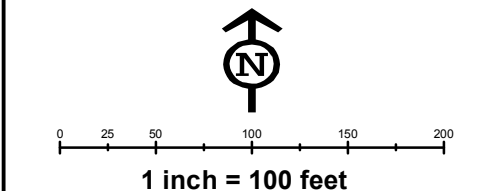
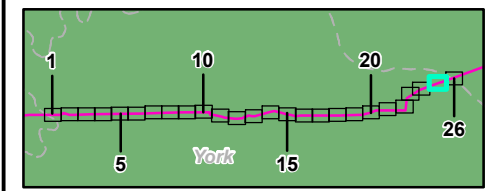
Stream S-H56, Perennial
 UNT to Susquehanna River
 Chapter 93: WWF, MF
 Coordinates: 40.1982, -76.8020
 Stream Impact: 2,590ft² E&S Sheet: ES-4.20
 Perm. Floodway Impact: 0.215 acres
 Temp. Floodway Impact: 0.120 acres
 Crossing Type: Dry Crossing/Temporary Bridge
 OHW Width: 37 Permit: Individual

Stream S-H57, Perennial
 UNT to Susquehanna River
 Chapter 93: Drains to WWF, MF
 Coordinates: 40.1975, -76.8021
 Stream Impact: 0ft² E&S Sheet: ES-4.20
 Perm. Floodway Impact: 0.215 acres
 Temp. Floodway Impact: 0.120 acres
 Crossing Type: Floodway Only
 OHW Width: 5 Permit: Individual

ATWS for equipment storage
 and staging area for HDD.

Legend

- Sheet Boundary
- PPP 1
- PPP 2
- PPP 1, Bore
- PPP 1, HDD
- PPP 2, Bore
- PPP 2, HDD
- Pullback String
- Permanent Easement (no surface disturbance)
- Permanent ROW
- Temporary ROW
- ATWS
- Permanent Access Road
- Temporary Access Road
- ROW-Travel LOD
- ROW-Travel and Clearing LOD
- Existing Block Valve
- New Block Valve
- Block Valve Setting LOD
- Station LOD
- Bore Pits
- PEM Wetland
- PFO Wetland
- PSS Wetland
- Pond
- Ephemeral Stream
- Intermittent Stream
- Perennial Stream
- Chapter 105 Floodway
- Waived Floodway
- Ch. 106 Floodplain Fringe



Site Plan for the Sunoco
 Pennsylvania Pipeline Project,
 York County, PA.
 Sheet 25 of 26

Prepared By: **TETRA TECH** Date: **11/2016**

Base Map: SPLP 2014-2016, Roads from NRCS Geo-spatial Data Giveaway, 100-Year Floodplain from FEMA NFHL, downloaded 9/2016. Aquatics, TT 2013-2016.
 Coordinate System: NAD 83 Stateplane, PA South, Feet

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Impacts to the Susquehanna River are presented within the Dauphin County application E22-619.

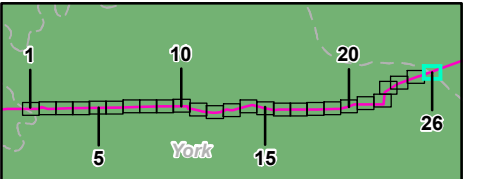
Lower Swatara Township
DAUPHIN COUNTY

Fairview Township
YORK COUNTY

**Stream S-A22, Ch. 106 area
Susquehanna River**
Coordinates: 40.1964, -76.7991
Perm. Floodplain Impact: 0.032 acres
Temp. Floodplain Impact: 0 acres
Crossing Type: HDD/Floodplain Crossing

Wetland BB1, PEM
HUC12: 020503051011
Coordinates: 40.1990, -76.7988
Perm. Impact: 0.002 acres
Temp. Impact: 0 acres
Crossing Type: HDD
E&S Sheet: ES-4.01 Permit: Individual

- Legend**
- Sheet Boundary
 - PPP 1
 - PPP 2
 - PPP 1, Bore
 - PPP 1, HDD
 - PPP 2, Bore
 - PPP 2, HDD
 - Pullback String
 - Permanent Easement (no surface disturbance)
 - Permanent ROW
 - Temporary ROW
 - ATWS
 - Permanent Access Road
 - Temporary Access Road
 - ROW-Travel LOD
 - ROW-Travel and Clearing LOD
 - Existing Block Valve
 - New Block Valve
 - Block Valve Setting LOD
 - Station LOD
 - Bore Pits
 - PEM Wetland
 - PFO Wetland
 - PSS Wetland
 - Pond
 - Ephemeral Stream
 - Intermittent Stream
 - Perennial Stream
 - Chapter 105 Floodway
 - Waived Floodway
 - Ch. 106 Floodplain Fringe



0 25 50 100 150 200

1 inch = 100 feet

Site Plan for the Sunoco
Pennsylvania Pipeline Project,
York County, PA.
Sheet 26 of 26

Prepared By:	Date:
TETRA TECH	11/2016

Base Map: SPLP 2014-2016, Roads from NRCS Geo-spatial Data Giveaway, 100-Year Floodplain from FEMA NFHL, downloaded 9/2016. Aquatics, TT 2013-2016.

Coordinate System: NAD 83 Stateplane, PA South, Feet

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