

**Stream S-A18, Intermittent**  
 UNT to Snitz Creek  
 Chapter 93: Drains to TSF, MF  
 PAFBC: Drains to ATW, STS  
 Coordinates: 40.2909, -76.4275  
 Stream Impact: 0ft<sup>2</sup> E&S Sheet: ES-5.32  
 Perm. Floodway Impact: 0.183 acres  
 Temp. Floodway Impact: 0.110 acres  
 Crossing Type: Floodway Only  
 OHW Width: 5 Permit: Individual

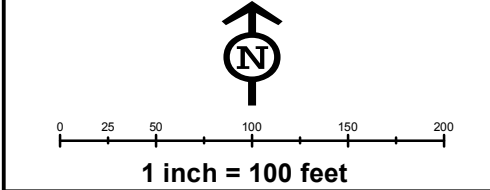
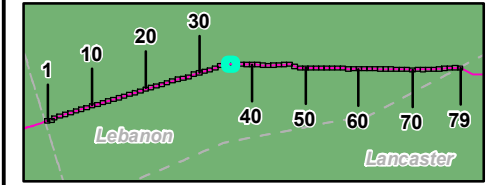
ATWS for equipment storage  
 and staging area for HDD.

**Stream S-A17, Perennial**  
 Snitz Creek  
 Chapter 93: TSF, MF  
 PAFBC: ATW, Drains to STS  
 Coordinates: 40.2903, -76.4274  
 Stream Impact: 2,856ft<sup>2</sup> E&S Sheet: ES-5.32  
 Perm. Floodway Impact: 0.183 acres  
 Temp. Floodway Impact: 0.110 acres  
 Crossing Type: HDD/Temporary Bridge  
 OHW Width: 51 Permit: Individual  
**No In-Stream Work from 3/1-6/15 and 10/1-12/31**  
**No Water Withdrawal from 3/1-6/15 and 10/1-12/31**

**Stream S-A17, Ch. 106 area**  
 Snitz Creek  
 Coordinates: 40.2903, -76.4274  
 Perm. Floodplain Impact: 0.033 acres  
 Temp. Floodplain Impact: 0.020 acres  
 Crossing Type: HDD/Open Cut

**Wetland A13, PEM**  
 HUC12: 020503050802  
 Coordinates: 40.2904, -76.4270  
 Perm. Impact: 0.011 acres  
 Temp. Impact: 0 acres  
 Crossing Type: Open Cut  
 E&S Sheet: ES-5.32 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

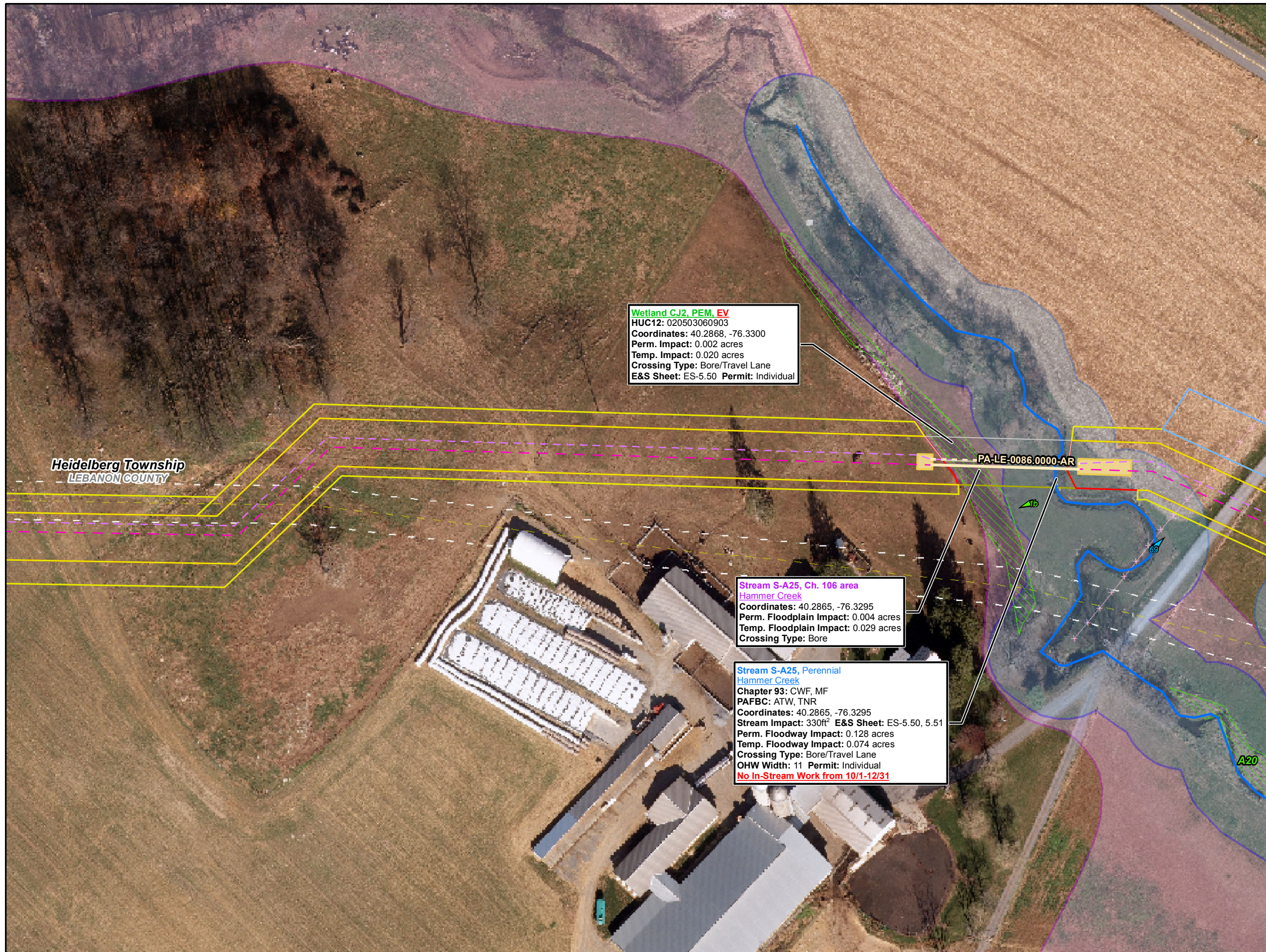


**Site Plan for the Sunoco  
 Pennsylvania Pipeline Project,  
 Lebanon County, PA.  
 Sheet 36 of 79**

<b>Prepared By:</b> <b>TETRA TECH</b>	<b>Date:</b> <b>02/2017</b>
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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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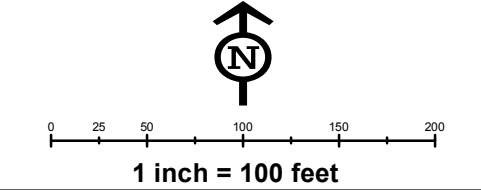
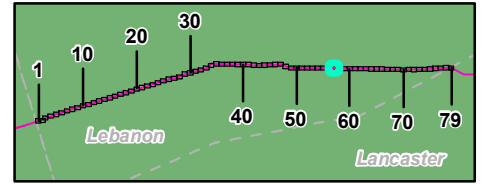


**Wetland CJ2, PEM, EV**  
 HUC12: 020503060903  
 Coordinates: 40.2868, -76.3300  
 Perm. Impact: 0.002 acres  
 Temp. Impact: 0.020 acres  
 Crossing Type: Bore/Travel Lane  
 E&S Sheet: ES-5.50 Permit: Individual

**Stream S-A25, Ch. 106 area**  
 Hammer Creek  
 Coordinates: 40.2865, -76.3295  
 Perm. Floodplain Impact: 0.004 acres  
 Temp. Floodplain Impact: 0.029 acres  
 Crossing Type: Bore

**Stream S-A25, Perennial**  
 Hammer Creek  
 Chapter 93: CWF, MF  
 PAFBC: ATW, TNR  
 Coordinates: 40.2865, -76.3295  
 Stream Impact: 330ft<sup>2</sup> E&S Sheet: ES-5.50, 5.51  
 Perm. Floodway Impact: 0.128 acres  
 Temp. Floodway Impact: 0.074 acres  
 Crossing Type: Bore/Travel Lane  
 OHW Width: 11 Permit: Individual  
**No In-Stream Work from 10/1-12/31**

- 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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  - 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, Lebanon County, PA.**  
 Sheet 57 of 79

Prepared By: **TETRA TECH** Date: **02/2017**

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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