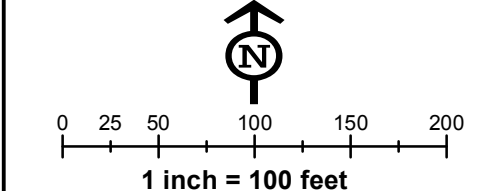
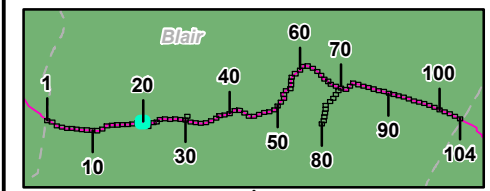


BAT CLEARING RESTRICTION AREA
 No Tree Clearing from 4/1 - 11/14

Stream S-M73, Ephemeral
 UNT to Blair Gap Run
 Chapter 93: Drains to TSF, MF
 PAFBC: Drains to ATW, STS
 Coordinates: 40.4070, -78.4690
 Stream Impact: 104ft² E&S Sheet: ES-3.16
 Perm. Floodway Impact: 0.118 acres
 Temp. Floodway Impact: 0.046 acres
 Crossing Type: Dry Crossing
 OHW Width: 2 Permit: Individual
 No In-Stream Work from 10/1-12/31

Juniata Township
BLAIR 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
 - 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

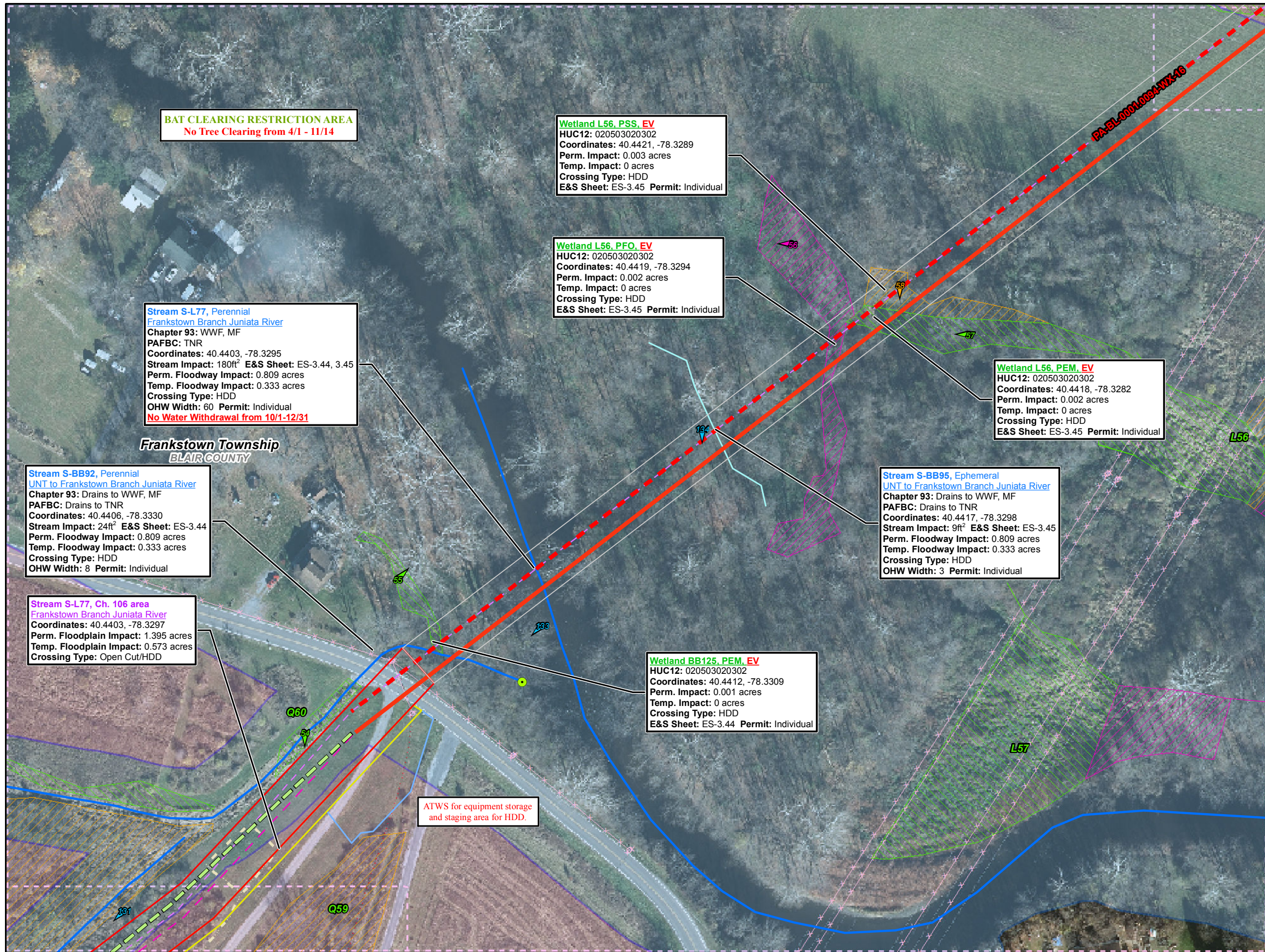


Site Plan for the Sunoco Pennsylvania Pipeline Project, Blair County, PA.
 Sheet 20 of 104

Prepared By: **TETRA TECH** Date: **01/2017**

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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Legend

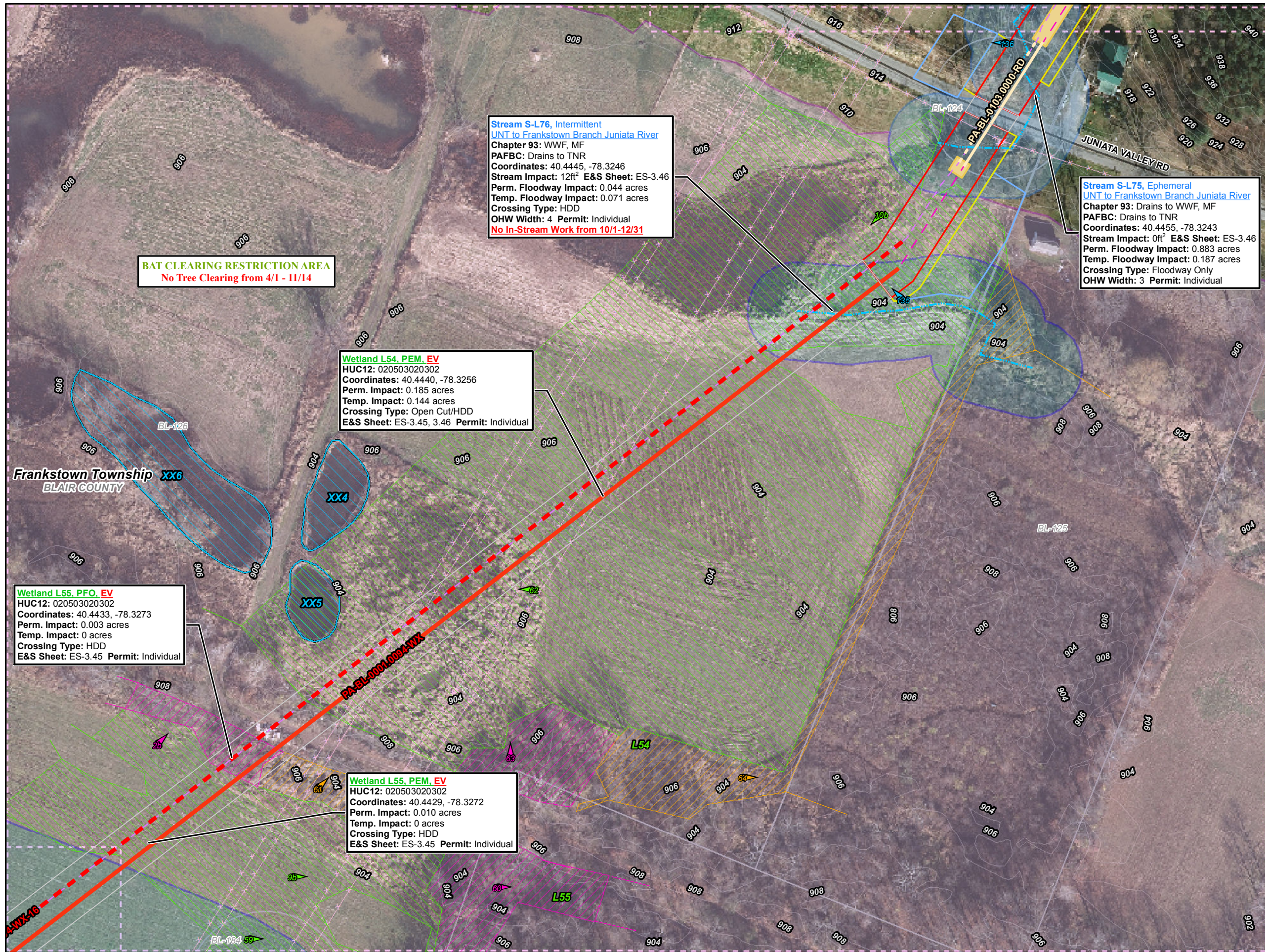
- Sheet Boundary
- PPP 1
- PPP 2
- PPP 1, Bore
- PPP 1, HDD
- PPP 2, Bore
- PPP 2, HDD
- Pullback String
- Permanent Easement (no surface disturbance)
- Permanent ROW
- Temporary ROW
- ATWS
- Permanent Access Road
- Temporary Access Road
- ROW-Travel LOD
- ROW-Travel and Clearing LOD
- Existing Block 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, Blair County, PA. Sheet 59 of 104

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



Stream S-L76, Intermittent
 UNT to Frankstown Branch Juniata River
 Chapter 93: WWF, MF
 PAFBC: Drains to TNR
 Coordinates: 40.4445, -78.3246
 Stream Impact: 12ft² E&S Sheet: ES-3.46
 Perm. Floodway Impact: 0.044 acres
 Temp. Floodway Impact: 0.071 acres
 Crossing Type: HDD
 OHW Width: 4 Permit: Individual
No In-Stream Work from 10/1-12/31

Stream S-L75, Ephemeral
 UNT to Frankstown Branch Juniata River
 Chapter 93: Drains to WWF, MF
 PAFBC: Drains to TNR
 Coordinates: 40.4455, -78.3243
 Stream Impact: 0ft² E&S Sheet: ES-3.46
 Perm. Floodway Impact: 0.883 acres
 Temp. Floodway Impact: 0.187 acres
 Crossing Type: Floodway Only
 OHW Width: 3 Permit: Individual

Wetland L54, PEM, EV
 HUC12: 020503020302
 Coordinates: 40.4440, -78.3256
 Perm. Impact: 0.185 acres
 Temp. Impact: 0.144 acres
 Crossing Type: Open Cut/HDD
 E&S Sheet: ES-3.45, 3.46 Permit: Individual

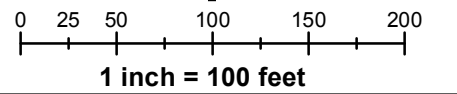
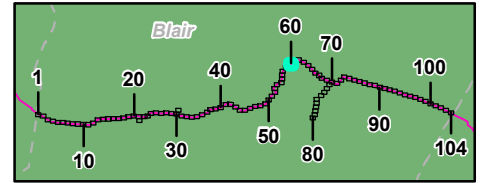
Wetland L55, PFO, EV
 HUC12: 020503020302
 Coordinates: 40.4433, -78.3273
 Perm. Impact: 0.003 acres
 Temp. Impact: 0 acres
 Crossing Type: HDD
 E&S Sheet: ES-3.45 Permit: Individual

Wetland L55, PEM, EV
 HUC12: 020503020302
 Coordinates: 40.4429, -78.3272
 Perm. Impact: 0.010 acres
 Temp. Impact: 0 acres
 Crossing Type: HDD
 E&S Sheet: ES-3.45 Permit: Individual

BAT CLEARING RESTRICTION AREA
 No Tree Clearing from 4/1 - 11/14

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

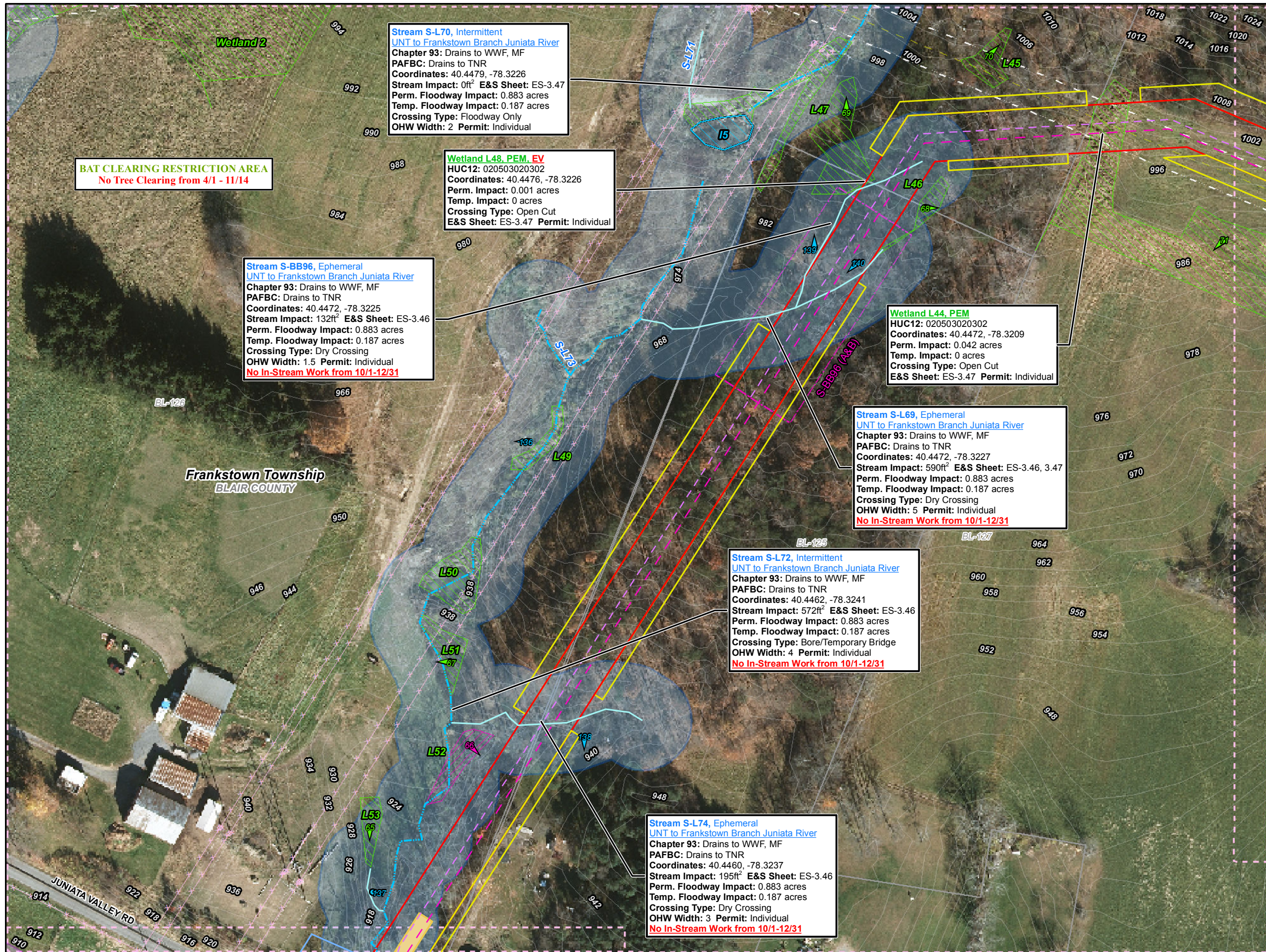


Site Plan for the Sunoco Pennsylvania Pipeline Project, Blair County, PA.
 Sheet 60 of 104

Prepared By: **TETRA TECH** Date: **01/2017**

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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BAT CLEARING RESTRICTION AREA
No Tree Clearing from 4/1 - 11/14

Stream S-BB96, Ephemeral
UNT to Frankstown Branch Juniata River
Chapter 93: Drains to WWF, MF
PAFBC: Drains to TNR
Coordinates: 40.4472, -78.3225
Stream Impact: 132ft² E&S Sheet: ES-3.46
Perm. Floodway Impact: 0.883 acres
Temp. Floodway Impact: 0.187 acres
Crossing Type: Dry Crossing
OHW Width: 1.5 Permit: Individual
No In-Stream Work from 10/1-12/31

Stream S-L70, Intermittent
UNT to Frankstown Branch Juniata River
Chapter 93: Drains to WWF, MF
PAFBC: Drains to TNR
Coordinates: 40.4479, -78.3226
Stream Impact: 0ft² E&S Sheet: ES-3.47
Perm. Floodway Impact: 0.883 acres
Temp. Floodway Impact: 0.187 acres
Crossing Type: Floodway Only
OHW Width: 2 Permit: Individual

Wetland L48, PEM, EV
HUC12: 020503020302
Coordinates: 40.4476, -78.3226
Perm. Impact: 0.001 acres
Temp. Impact: 0 acres
Crossing Type: Open Cut
E&S Sheet: ES-3.47 Permit: Individual

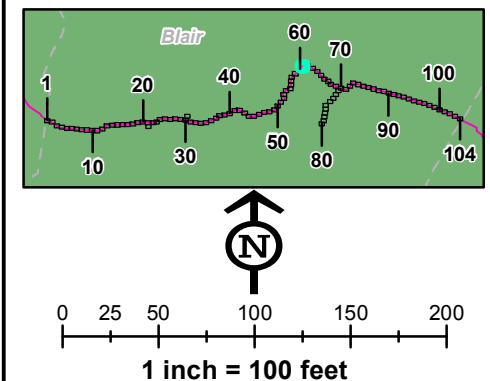
Wetland L44, PEM
HUC12: 020503020302
Coordinates: 40.4472, -78.3209
Perm. Impact: 0.042 acres
Temp. Impact: 0 acres
Crossing Type: Open Cut
E&S Sheet: ES-3.47 Permit: Individual

Stream S-L69, Ephemeral
UNT to Frankstown Branch Juniata River
Chapter 93: Drains to WWF, MF
PAFBC: Drains to TNR
Coordinates: 40.4472, -78.3227
Stream Impact: 590ft² E&S Sheet: ES-3.46, 3.47
Perm. Floodway Impact: 0.883 acres
Temp. Floodway Impact: 0.187 acres
Crossing Type: Dry Crossing
OHW Width: 5 Permit: Individual
No In-Stream Work from 10/1-12/31

Stream S-L72, Intermittent
UNT to Frankstown Branch Juniata River
Chapter 93: Drains to WWF, MF
PAFBC: Drains to TNR
Coordinates: 40.4462, -78.3241
Stream Impact: 572ft² E&S Sheet: ES-3.46
Perm. Floodway Impact: 0.883 acres
Temp. Floodway Impact: 0.187 acres
Crossing Type: Bore/Temporary Bridge
OHW Width: 4 Permit: Individual
No In-Stream Work from 10/1-12/31

Stream S-L74, Ephemeral
UNT to Frankstown Branch Juniata River
Chapter 93: Drains to WWF, MF
PAFBC: Drains to TNR
Coordinates: 40.4460, -78.3237
Stream Impact: 195ft² E&S Sheet: ES-3.46
Perm. Floodway Impact: 0.883 acres
Temp. Floodway Impact: 0.187 acres
Crossing Type: Dry Crossing
OHW Width: 3 Permit: Individual
No In-Stream Work from 10/1-12/31

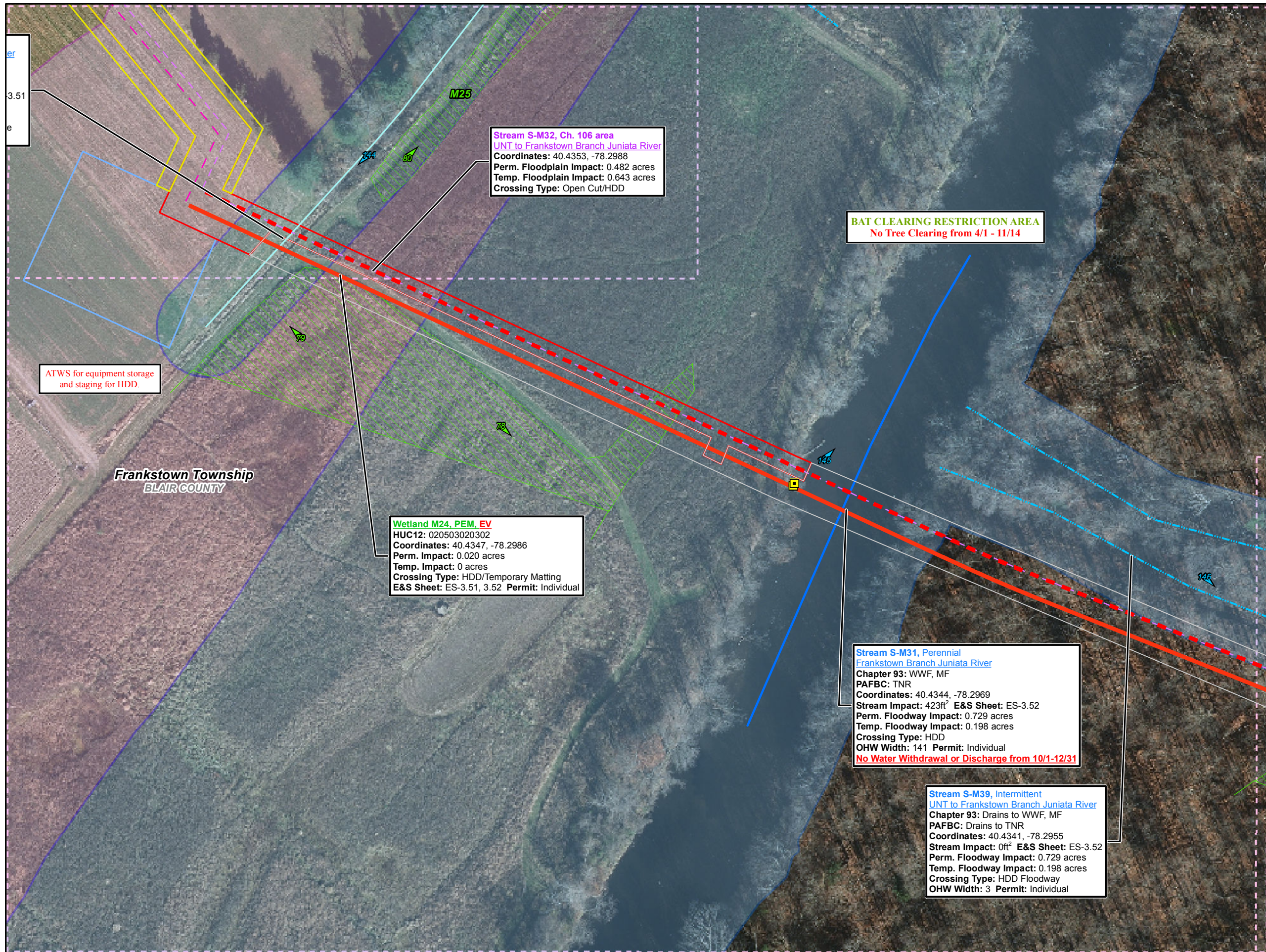
- Legend**
- Sheet Boundary
 - PPP 1
 - PPP 2
 - PPP 1, Bore
 - PPP 1, HDD
 - PPP 2, Bore
 - PPP 2, HDD
 - Pullback String
 - Permanent Easement (no surface disturbance)
 - Permanent ROW
 - Temporary ROW
 - ATWS
 - Permanent Access Road
 - Temporary Access Road
 - ROW-Travel LOD
 - ROW-Travel and Clearing 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, Blair County, PA. Sheet 61 of 104

Prepared By: **TETRA TECH** Date: **01/2017**

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



- 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

Stream S-M32, Ch. 106 area
 UNT to Frankstown Branch Juniata River
 Coordinates: 40.4353, -78.2988
 Perm. Floodplain Impact: 0.482 acres
 Temp. Floodplain Impact: 0.643 acres
 Crossing Type: Open Cut/HDD

BAT CLEARING RESTRICTION AREA
 No Tree Clearing from 4/1 - 11/14

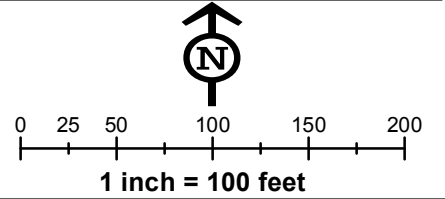
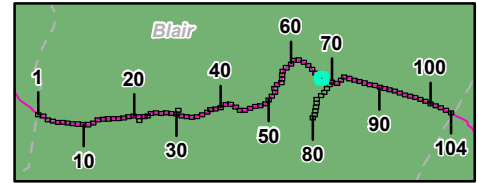
ATWS for equipment storage and staging for HDD.

Frankstown Township
 BLAIR COUNTY

Wetland M24, PEM, EV
 HUC12: 020503020302
 Coordinates: 40.4347, -78.2986
 Perm. Impact: 0.020 acres
 Temp. Impact: 0 acres
 Crossing Type: HDD/Temporary Matting
 E&S Sheet: ES-3.51, 3.52 Permit: Individual

Stream S-M31, Perennial
 Frankstown Branch Juniata River
 Chapter 93: WWF, MF
 PAFBC: TNR
 Coordinates: 40.4344, -78.2969
 Stream Impact: 423ft² E&S Sheet: ES-3.52
 Perm. Floodway Impact: 0.729 acres
 Temp. Floodway Impact: 0.198 acres
 Crossing Type: HDD
 OHW Width: 141 Permit: Individual
 No Water Withdrawal or Discharge from 10/1-12/31

Stream S-M39, Intermittent
 UNT to Frankstown Branch Juniata River
 Chapter 93: Drains to WWF, MF
 PAFBC: Drains to TNR
 Coordinates: 40.4341, -78.2955
 Stream Impact: 0ft² E&S Sheet: ES-3.52
 Perm. Floodway Impact: 0.729 acres
 Temp. Floodway Impact: 0.198 acres
 Crossing Type: HDD Floodway
 OHW Width: 3 Permit: Individual

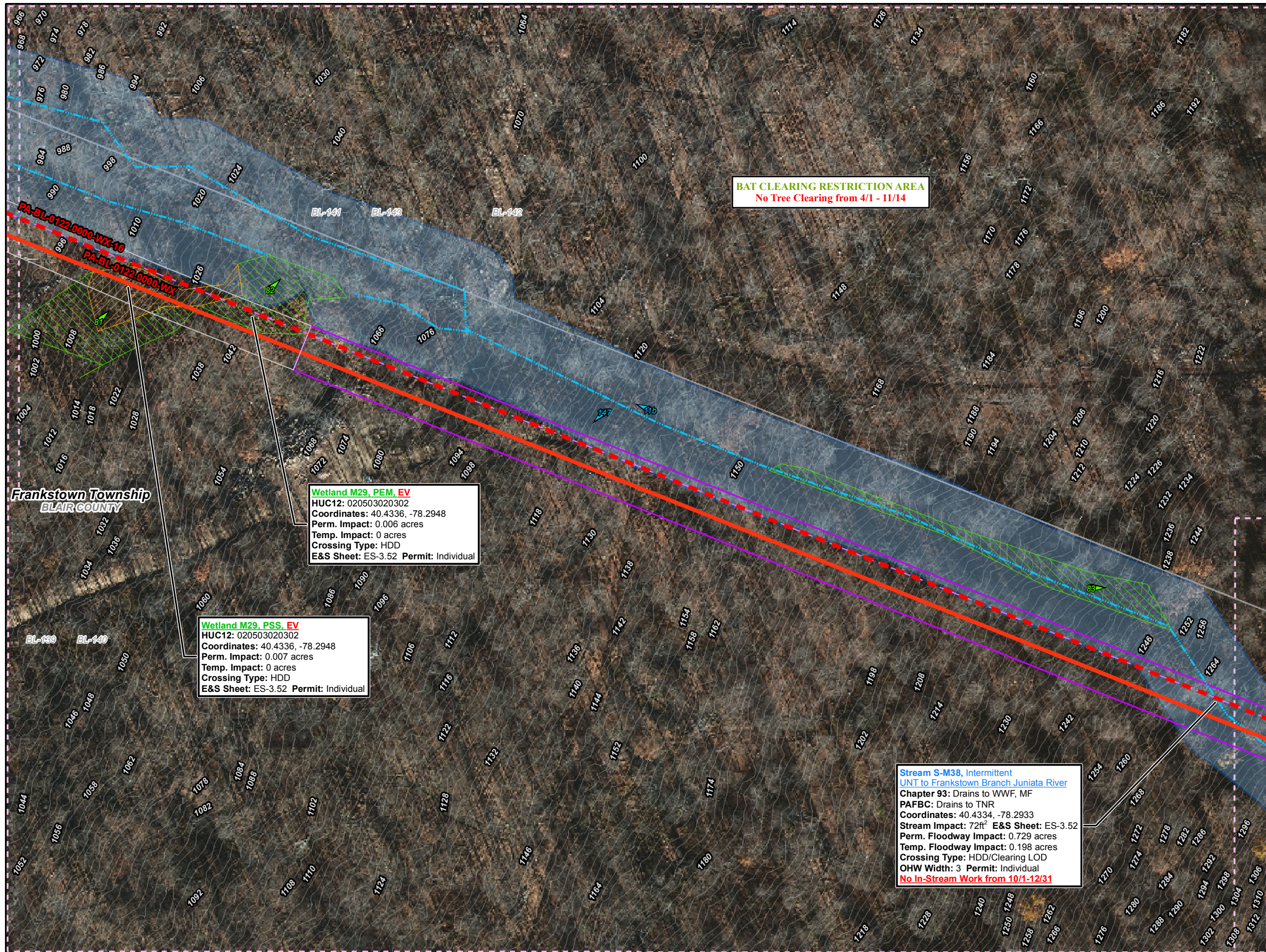


Site Plan for the Sunoco Pennsylvania Pipeline Project, Blair County, PA.
 Sheet 68 of 104

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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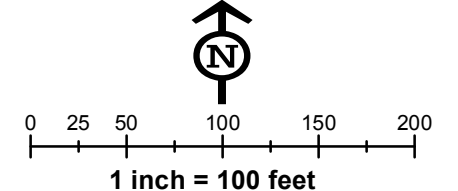
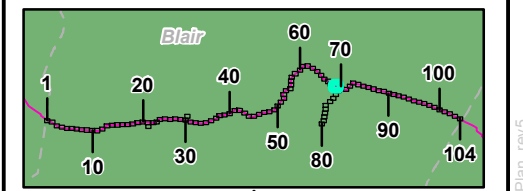
BAT CLEARING RESTRICTION AREA
 No Tree Clearing from 4/1 - 11/14

Wetland M29, PEM, EV
 HUC12: 020503020302
 Coordinates: 40.4336, -78.2948
 Perm. Impact: 0.006 acres
 Temp. Impact: 0 acres
 Crossing Type: HDD
 E&S Sheet: ES-3.52 Permit: Individual

Wetland M29, PSS, EV
 HUC12: 020503020302
 Coordinates: 40.4336, -78.2948
 Perm. Impact: 0.007 acres
 Temp. Impact: 0 acres
 Crossing Type: HDD
 E&S Sheet: ES-3.52 Permit: Individual

Stream S-M38, Intermittent
 UNT to Frankstown Branch Juniata River
 Chapter 93: Drains to WWF, MF
 PAFBC: Drains to TNR
 Coordinates: 40.4334, -78.2933
 Stream Impact: 72ft² E&S Sheet: ES-3.52
 Perm. Floodway Impact: 0.729 acres
 Temp. Floodway Impact: 0.198 acres
 Crossing Type: HDD/Clearing LOD
 OHW Width: 3 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
 - 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

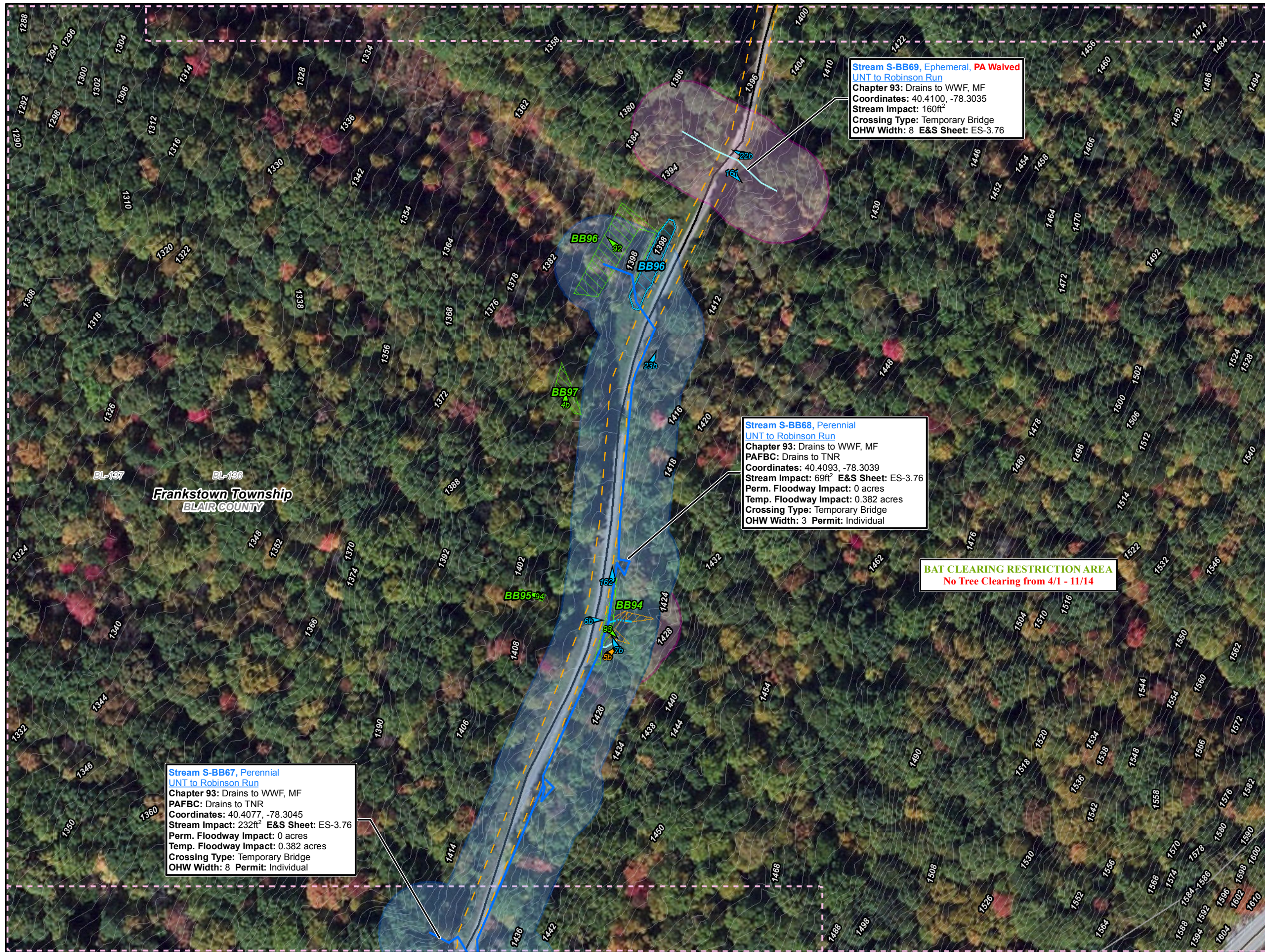


Site Plan for the Sunoco Pennsylvania Pipeline Project, Blair County, PA.
 Sheet 69 of 104

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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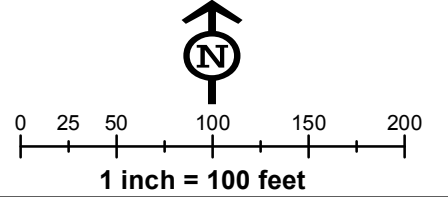
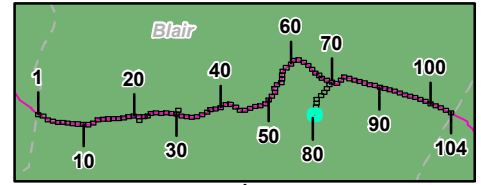
Stream S-BB69, Ephemeral, PA Waived
 UNT to Robinson Run
 Chapter 93: Drains to WWF, MF
 Coordinates: 40.4100, -78.3035
 Stream Impact: 160ft²
 Crossing Type: Temporary Bridge
 OHW Width: 8 E&S Sheet: ES-3.76

Stream S-BB68, Perennial
 UNT to Robinson Run
 Chapter 93: Drains to WWF, MF
 PAFBC: Drains to TNR
 Coordinates: 40.4093, -78.3039
 Stream Impact: 69ft² E&S Sheet: ES-3.76
 Perm. Floodway Impact: 0 acres
 Temp. Floodway Impact: 0.382 acres
 Crossing Type: Temporary Bridge
 OHW Width: 3 Permit: Individual

Stream S-BB67, Perennial
 UNT to Robinson Run
 Chapter 93: Drains to WWF, MF
 PAFBC: Drains to TNR
 Coordinates: 40.4077, -78.3045
 Stream Impact: 232ft² E&S Sheet: ES-3.76
 Perm. Floodway Impact: 0 acres
 Temp. Floodway Impact: 0.382 acres
 Crossing Type: Temporary Bridge
 OHW Width: 8 Permit: Individual

BAT CLEARING RESTRICTION AREA
 No Tree Clearing from 4/1 - 11/14

- 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

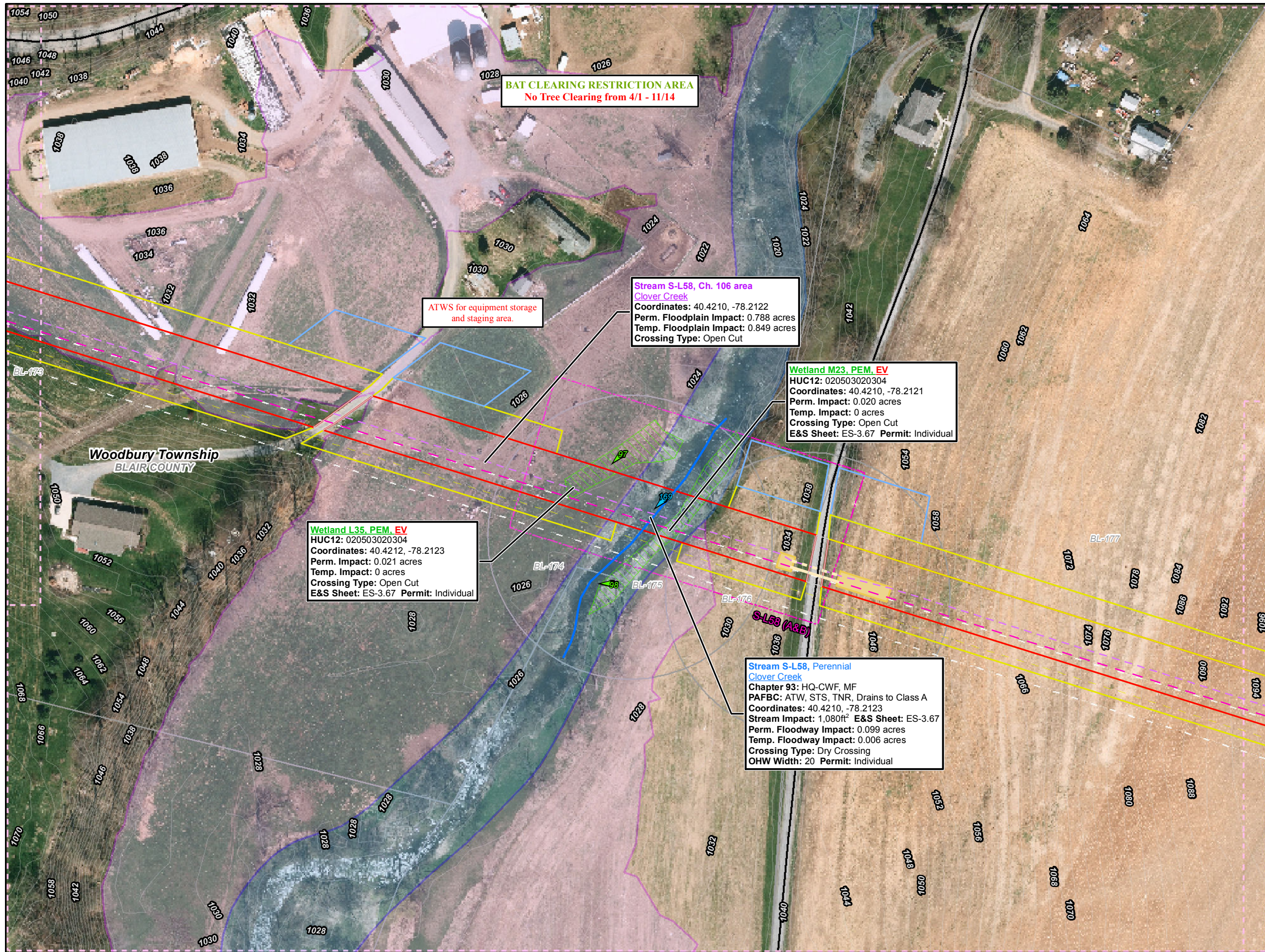


Site Plan for the Sunoco Pennsylvania Pipeline Project, Blair County, PA.
 Sheet 79 of 104

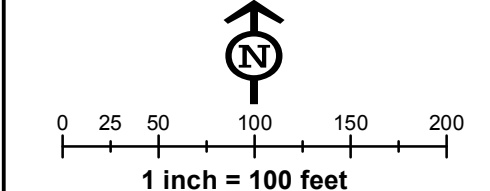
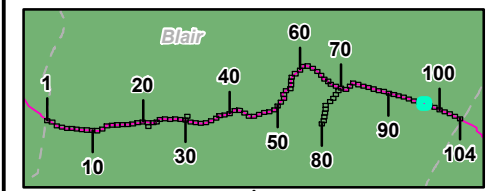
Prepared By: **TETRA TECH** Date: **01/2017**

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,
Blair County, PA.
Sheet 97 of 104**

Prepared By: TETRA TECH	Date: 01/2017
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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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