

#### **GENERAL NOTES:**

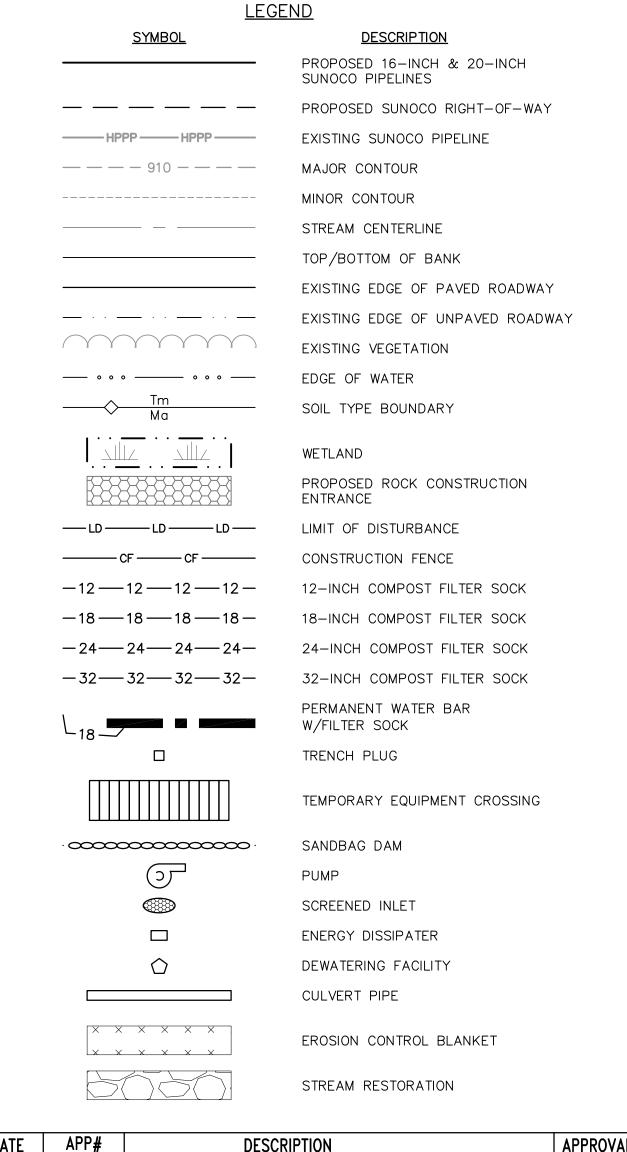
- 1. REFERENCE E&S PLAN AND SITE RESTORATION NOTES AND DETAILS FOR ADDITIONAL CONSTRUCTION SEQUENCING, TYPICAL DETAILS AND NOTES (ES-0.01-ES-0.23); AND PLAN SHEETS FOR ADDITIONAL PLANS AND TOPOGRAPHY.
- 2. ALL EXISTING UTILITY INFORMATION IS APPROXIMATE. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
- 3. MAINTAIN 2'-0" MINIMUM VERTICAL SEPARATION BETWEEN THE PROPOSED PIPELINE AND OTHER UTILITIES.
- 4. THE BACKGROUND TOPOGRAPHY WAS OBTAINED FROM TOPOGRAPHIC SURVEYS PERFORMED IN SEPTEMBER 2016.
- 5. THE PROJECT IS LOCATED IN NAD83 PENNSYLVANIA STATE PLANE COORDINATE SYSTEM (SOUTH ZONE), NAVD88.
- 6. EXCAVATION IS LIMITED TO THE CENTERLINE WITH A TYPICAL TRENCH WIDTH OF 4-5'FOR 16/20" PIPELINE.

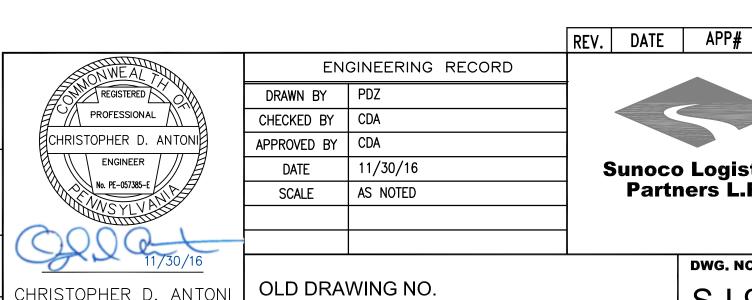
#### WETLAND CROSSING NOTES:

- 1. REFERENCE NOTES AND DETAILS FOR WETLAND CONSTRUCTION SEQUENCING AND WETLAND RESTORATION (ES-0.03, ES-0.08, ES-0.10, AND ES-0.15).
- 2. A MINIMUM OF 4 FEET COVER UNDER WETLANDS AND UPLANDS IS REQUIRED.
- 3. FOR TEMPORARY TIMBER MAT REFERENCE (ES-0.10)
- 4. EROSION CONTROL BLANKET SHALL BE PLACED A MINIMUM OF 50 FEET EDGE OF WETLAND OR 100 FEET FROM EDGE OF WETLAND FOR SPECIAL PROTECTION WATERS (HQ OR EV).

#### STREAM CROSSING NOTES:

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- 2. FOR TEMPORARY EQUIPMENT CROSSINGS REFERENCE (ES-0.10).
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- 5. REFERENCE THE STREAM BANK STABILIZATION DETAIL AND STREAM RESTORATION TABLE IN THE NOTES AND DETAILS WHERE RIP-RAP IS PROPOSED (ES-0.18).
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- 7. TIMBER MATS SHALL EXTEND A MINIMUM OF 20 FEET BEYOND TOP OF BANK.
- 8. COMPOST FILTER SOCKS SHALL BE INSTALLED ALONG THE TOP OF THE STREAM BANK ACROSS THE RIGHT-OF-WAY WHEN PUMP BYPASS IS NOT IN PLACE.





CHRISTOPHER D. ANTONI

PE-057385-I

STV PROJECT No.: 38-17335

PROFILE LEGEND:

— — — EXISTING GRADE

PROPOSED PIPELINE

EXISTING GRADE ELEV.

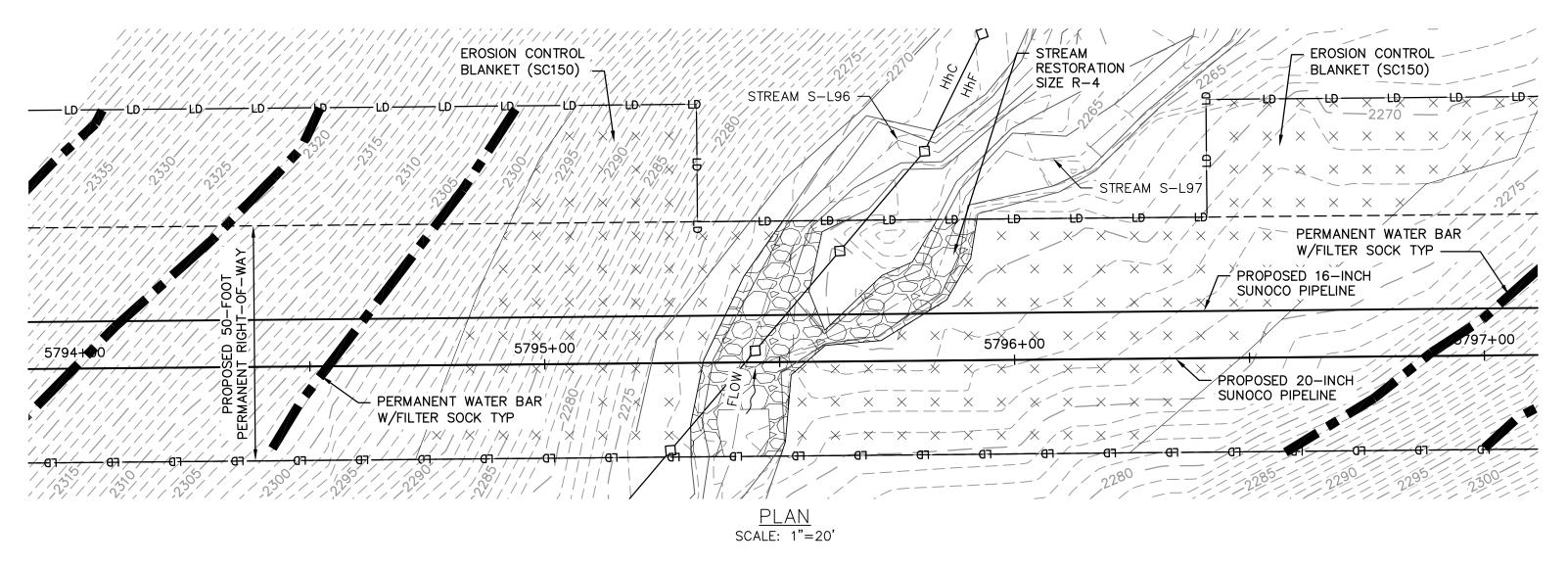
PROPOSED TOP OF

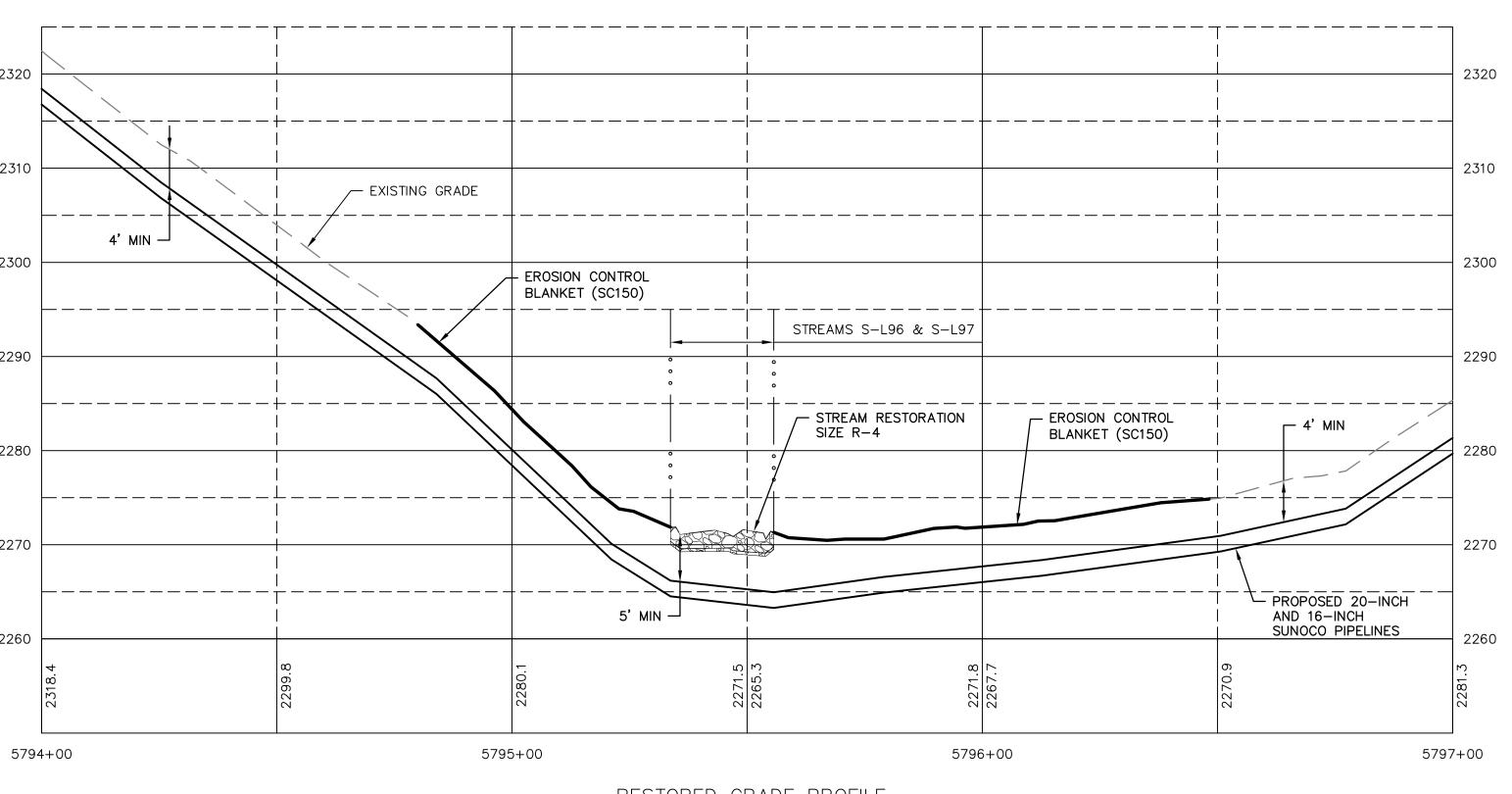
PIPE ELEV.

PENNSYLVANIA PIPELINE PROJECT STREAMS S-L96 & S-L97 **EROSION & SEDIMENTATION Sunoco Logistics** CONTROL PLAN AND PROFILE Partners L.P.

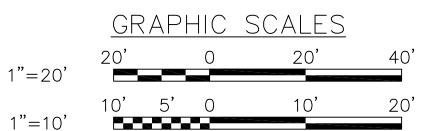
> BLAIR COUNTY, PA DWG. NO. REV. NO. S-L96-A

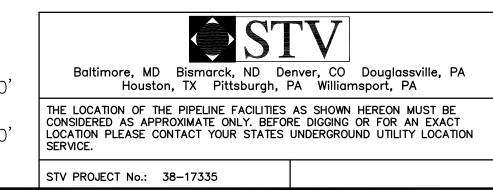






RESTORED GRADE PROFILE HORZ SCALE: 1"=20' VERT SCALE: 1"=10'







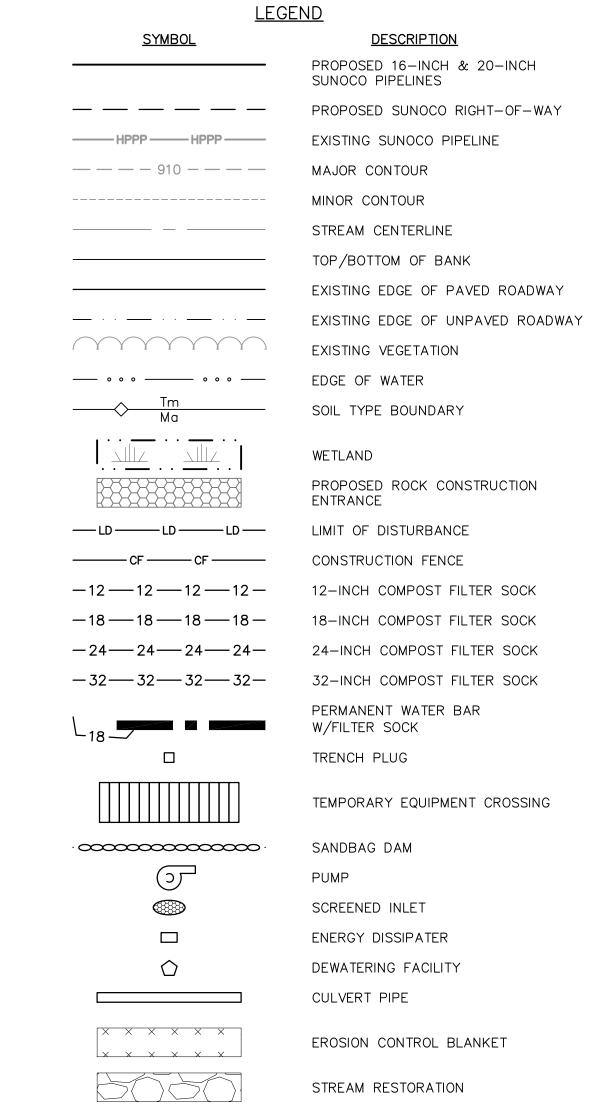
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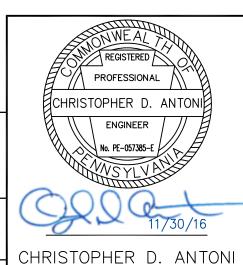
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PE-057385-E

ENGINEERING RECORD DRAWN BY PDZ CHECKED BY | CDA APPROVED BY | CDA 11/30/16 SCALE AS NOTED

OLD DRAWING NO.

PROFILE LEGEND:

— — — EXISTING GRADE

PROPOSED PIPELINE

EXISTING GRADE ELEV.

PROPOSED TOP OF

PIPE ELEV.

**Sunoco Logistics** Partners L.P.

REV. DATE APP#

PENNSYLVANIA PIPELINE PROJECT STREAMS S-L96 & S-L97 RESTORATION PLAN

BLAIR COUNTY, PA

DWG. NO. S-L96-B

DESCRIPTION

REV. NO.

APPROVA

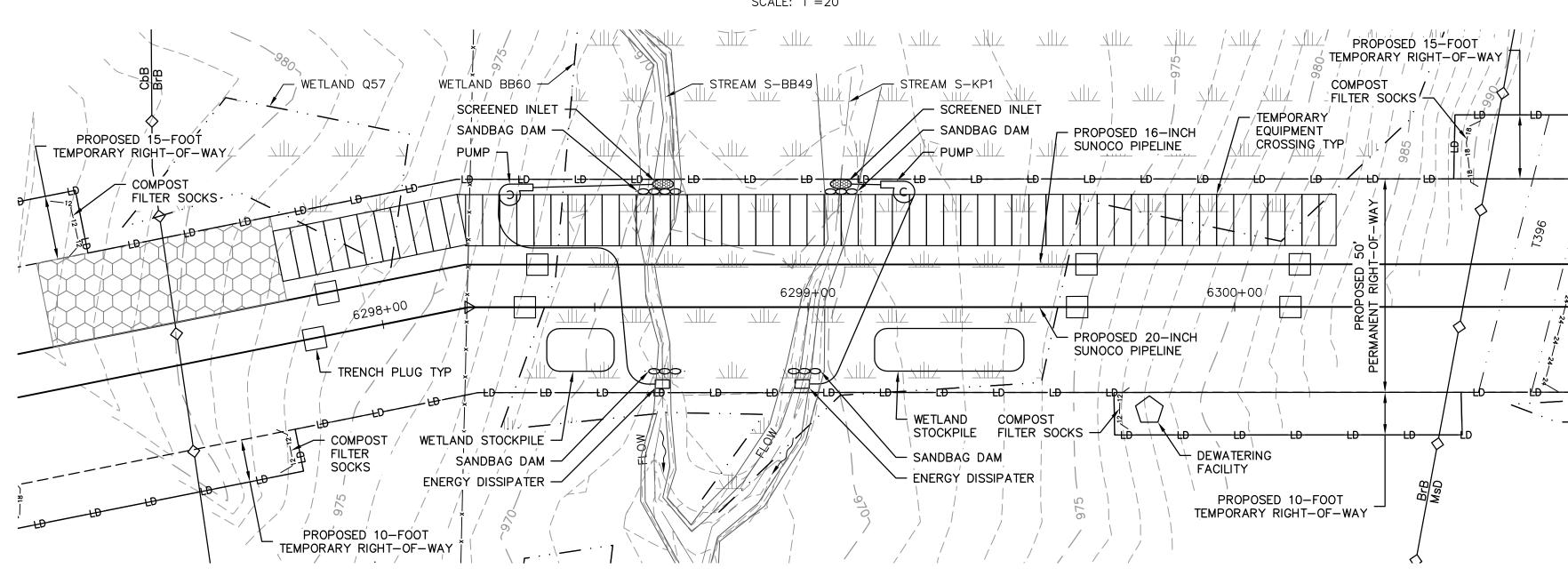
6298+00

# EXISTING CONDITIONS PLAN

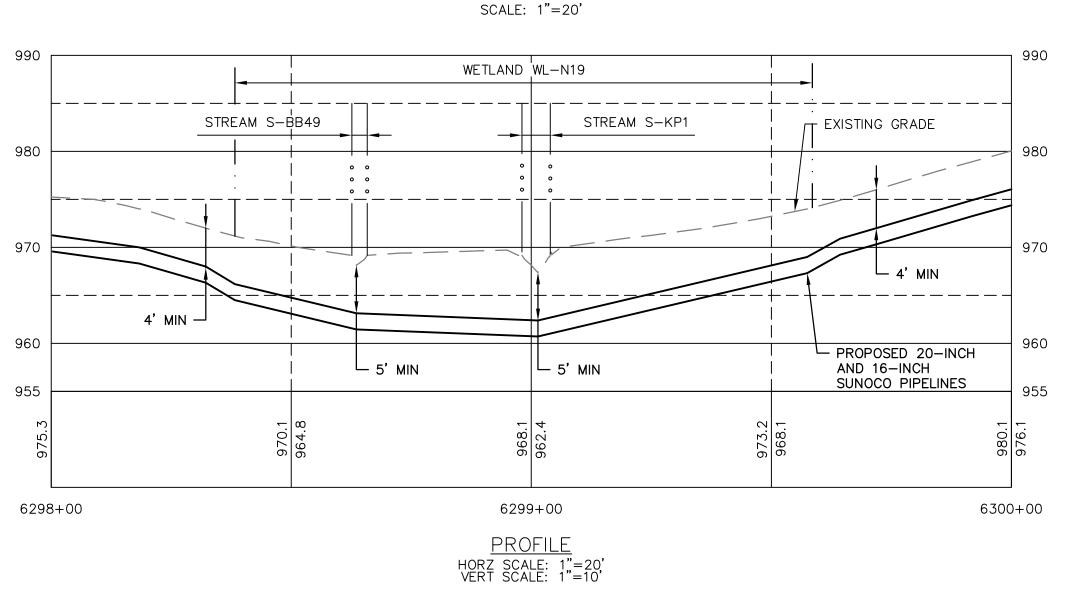
6300+00/

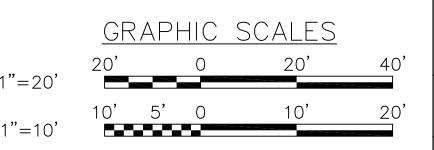
- PROPOSED 20-INCH

SUNOCO PIPELINE



# EROSION & SEDIMENTATION CONTROL PLAN





Baltimore, MD Bismarck, ND Denver, CO Douglassville, PA Houston, TX Pittsburgh, PA Williamsport, PA THE LOCATION OF THE PIPELINE FACILITIES AS SHOWN HEREON MUST BE CONSIDERED AS APPROXIMATE ONLY. BEFORE DIGGING OR FOR AN EXACT LOCATION PLEASE CONTACT YOUR STATES UNDERGROUND UTILITY LOCATION STV PROJECT No.: 38-17335

**GENERAL NOTES:** 

1. REFERENCE E&S PLAN AND SITE RESTORATION NOTES AND DETAILS FOR ADDITIONAL CONSTRUCTION SEQUENCING, TYPICAL DETAILS AND NOTES (ES-0.01-ES-0.23); AND PLAN SHEETS FOR ADDITIONAL PLANS AND TOPOGRAPHY.

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5. THE PROJECT IS LOCATED IN NAD83 PENNSYLVANIA STATE PLANE COORDINATE SYSTEM (SOUTH ZONE), NAVD88.

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PROFILE LEGEND: PROPOSED PIPELINE EXISTING GRADE EXISTING GRADE ELEV.

PROPOSED TOP OF PIPE ELEV.

DRAWN BY RFG

CHECKED BY | CDA

APPROVED BY CDA

SCALE

11/30/16

AS NOTED

OLD DRAWING NO. WL-BB60-A

DWG. NO.

6. EXCAVATION IS LIMITED TO THE CENTERLINE WITH A TYPICAL TRENCH WIDTH OF 4-5'FOR 16/20" PIPELINE.

STREAM CROSSING NOTES:

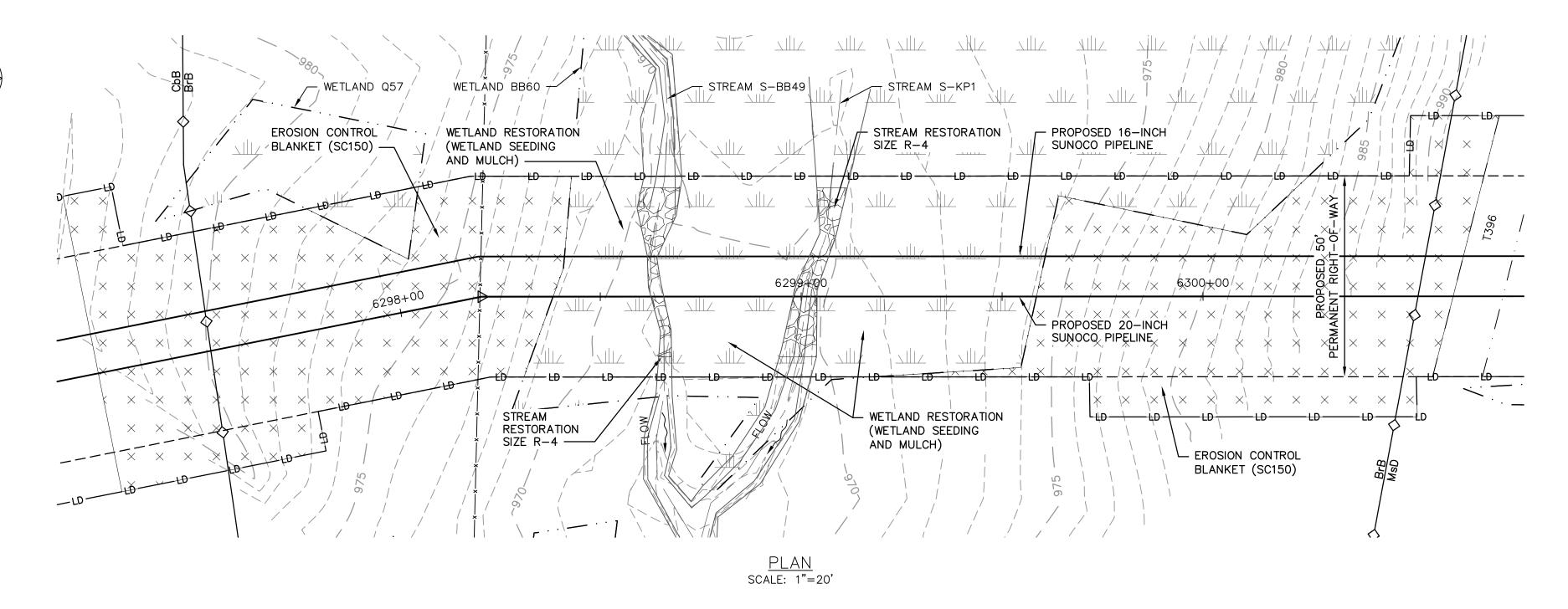
(ES-0.11-ES-0.14).

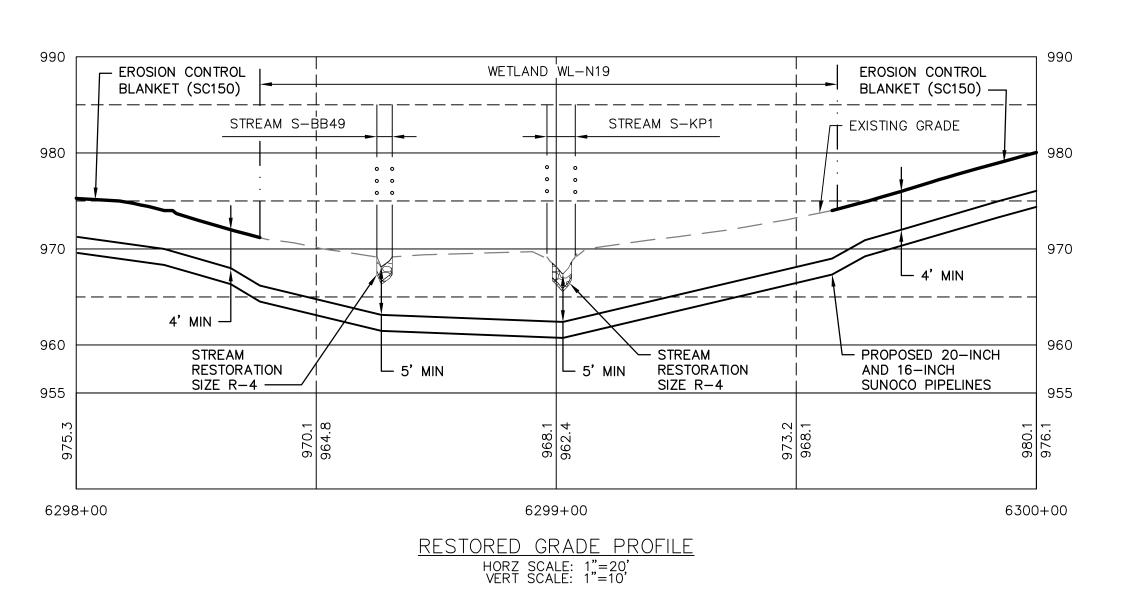
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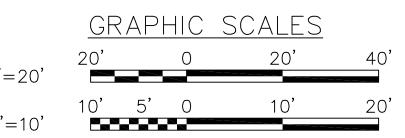
REGISTERED PROFESSIONAL CHRISTOPHER D. ANTON ENGINEER √ No. PE-057385-E

CHRISTOPHER D. ANTONI PE-057385-E

REV. NO.







Baltimore, MD Bismarck, ND Denver, CO Douglassville, PA Houston, TX Pittsburgh, PA Williamsport, PA THE LOCATION OF THE PIPELINE FACILITIES AS SHOWN HEREON MUST BE CONSIDERED AS APPROXIMATE ONLY. BEFORE DIGGING OR FOR AN EXACT LOCATION PLEASE CONTACT YOUR STATES UNDERGROUND UTILITY LOCATION STV PROJECT No.: 38-17335

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**LEGEND DESCRIPTION** <u>SYMBOL</u> PROPOSED 16-INCH & 20-INCH SUNOCO PIPELINES PROPOSED SUNOCO RIGHT-OF-WAY EXISTING SUNOCO PIPELINE — — — — 910 — — — — MAJOR CONTOUR MINOR CONTOUR STREAM CENTERLINE TOP/BOTTOM OF BANK EXISTING EDGE OF PAVED ROADWAY EXISTING EDGE OF UNPAVED ROADWAY EXISTING VEGETATION EDGE OF WATER SOIL TYPE BOUNDARY WETLAND PROPOSED ROCK CONSTRUCTION ENTRANCE LIMIT OF DISTURBANCE —LD——LD——LD— CONSTRUCTION FENCE -12 --- 12 --- 12 --- 12 ---12-INCH COMPOST FILTER SOCK -18 - 18 - 18 - 18 -18-INCH COMPOST FILTER SOCK -24--24--24--24-24-INCH COMPOST FILTER SOCK -32—32—32—32— 32-INCH COMPOST FILTER SOCK PERMANENT WATER BAR W/FILTER SOCK TRENCH PLUG TEMPORARY EQUIPMENT CROSSING SANDBAG DAM • PUMP SCREENED INLET ENERGY DISSIPATER  $\bigcirc$ DEWATERING FACILITY CULVERT PIPE  $\times$   $\times$   $\times$   $\times$   $\times$ EROSION CONTROL BLANKET

REGISTERED DRAWN BY RFG PROFESSIONAL CHECKED BY CDA CHRISTOPHER D. ANTON APPROVED BY CDA ENGINEER √ No. PE-057385-E SCALE AS NOTED

CHRISTOPHER D. ANTONI

PE-057385-E

ENGINEERING RECORD 11/30/16

PROFILE LEGEND:

— — EXISTING GRADE

PROPOSED PIPELINE

EXISTING GRADE ELEV.

PROPOSED TOP OF

PIPE ELEV.

PENNSYLVANIA PIPELINE PROJECT STREAMS S-BB49 AND S-KP1 RESTORATION PLAN **Sunoco Logistics** 

DESCRIPTION

BLAIR COUNTY, PA

APPROVAL

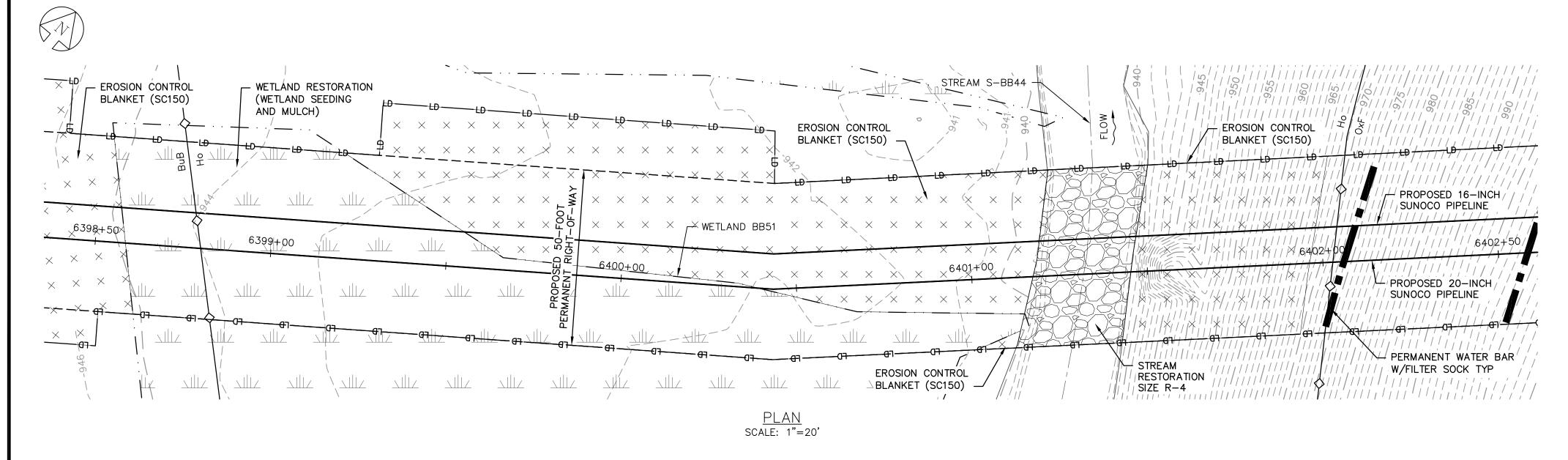
DWG. NO. OLD DRAWING NO. WL-BB60-B

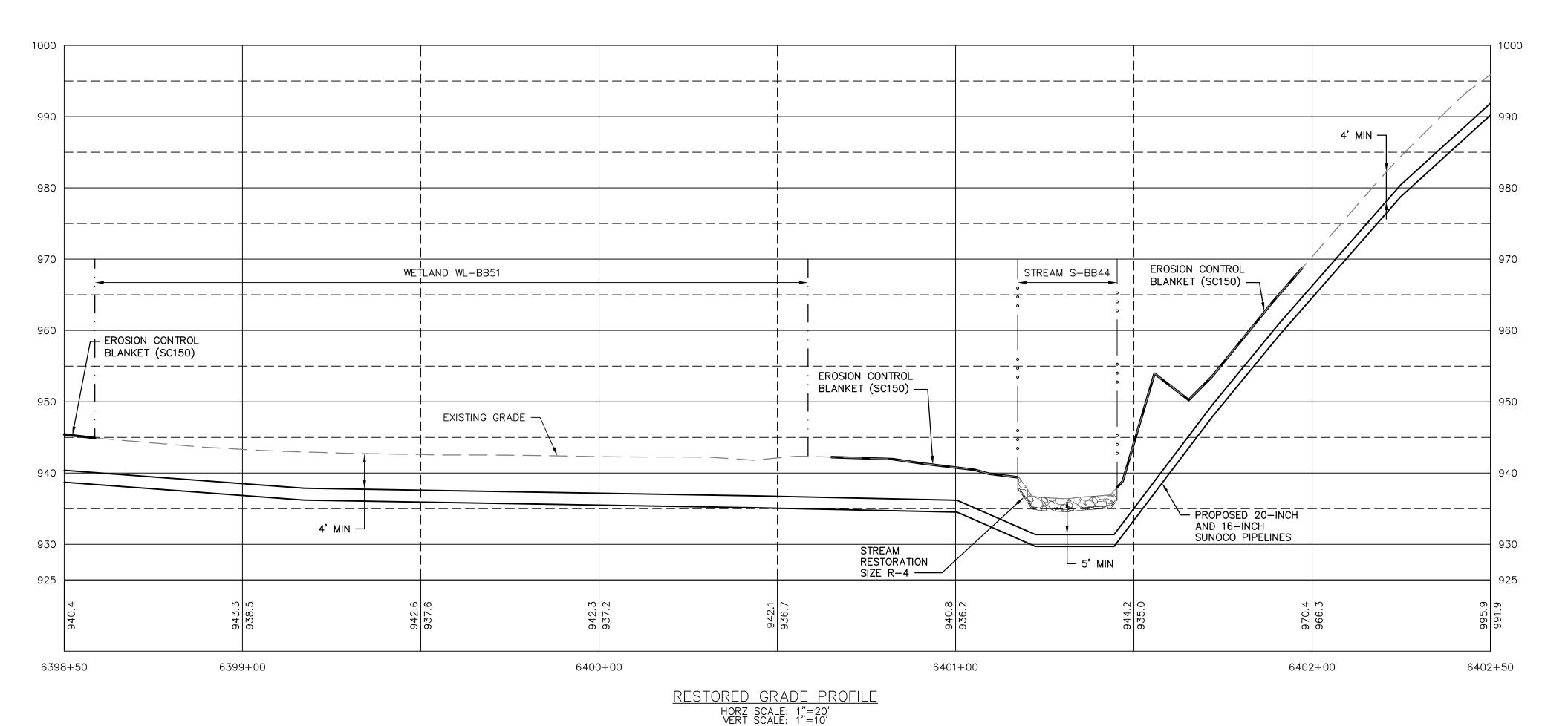
REV. DATE APP#

Partners L.P.

REV. NO.

STREAM RESTORATION





#### **GENERAL NOTES:**

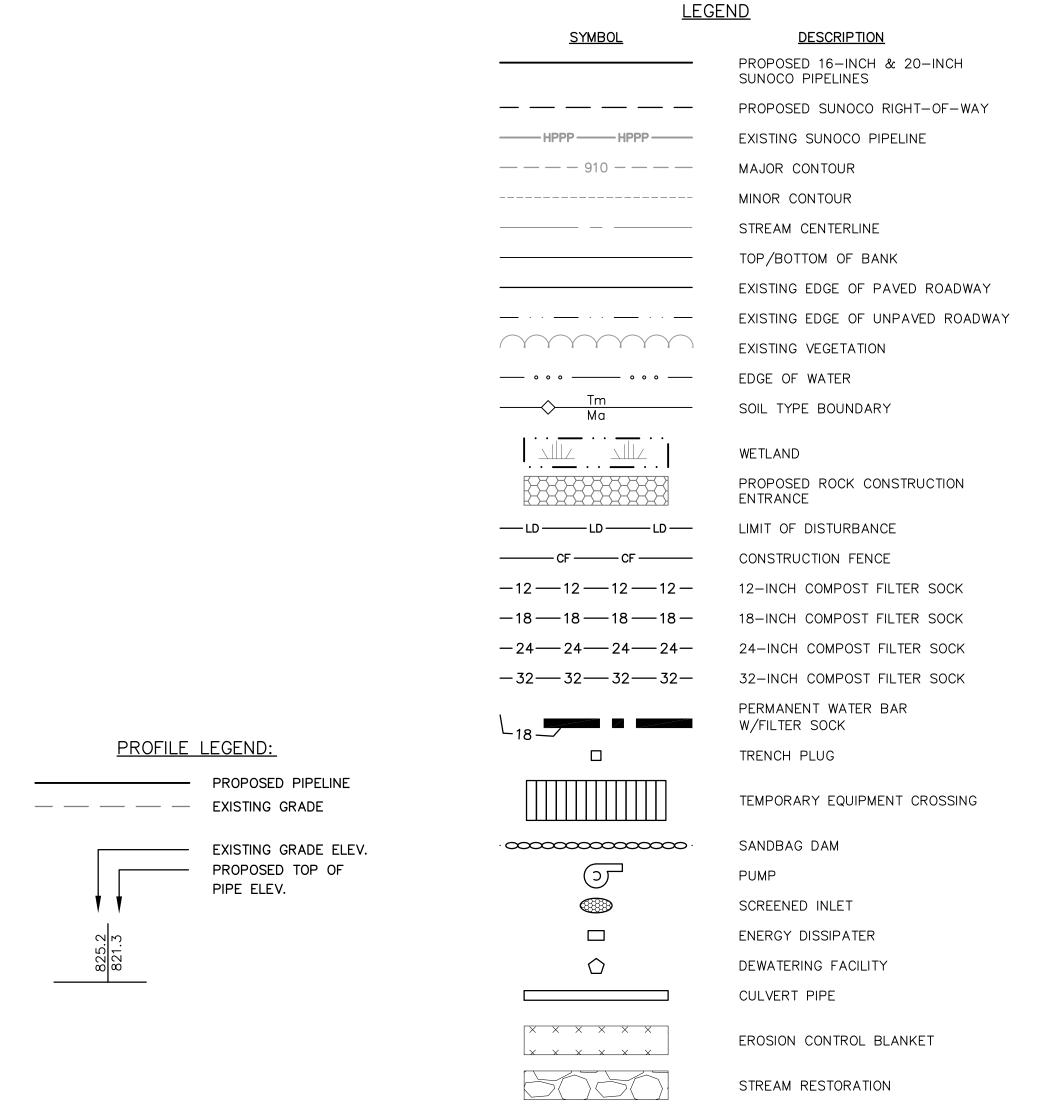
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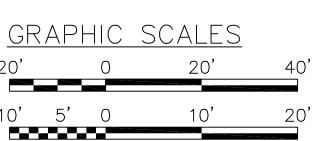
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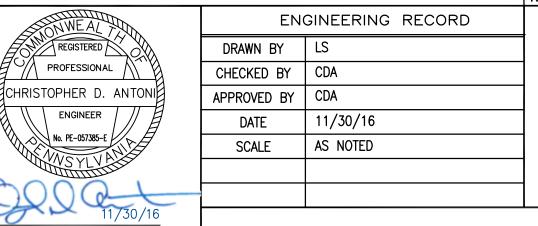


1"=10

Baltimore, MD Bismarck, ND Denver, CO Douglassville, PA Houston, TX Pittsburgh, PA Williamsport, PA

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STV PROJECT No.: 38–17335



OLD DRAWING NO.

CHRISTOPHER D. ANTONI

PE-057385-E

REV. DATE APP#

Sunoco Logistics Partners L.P.

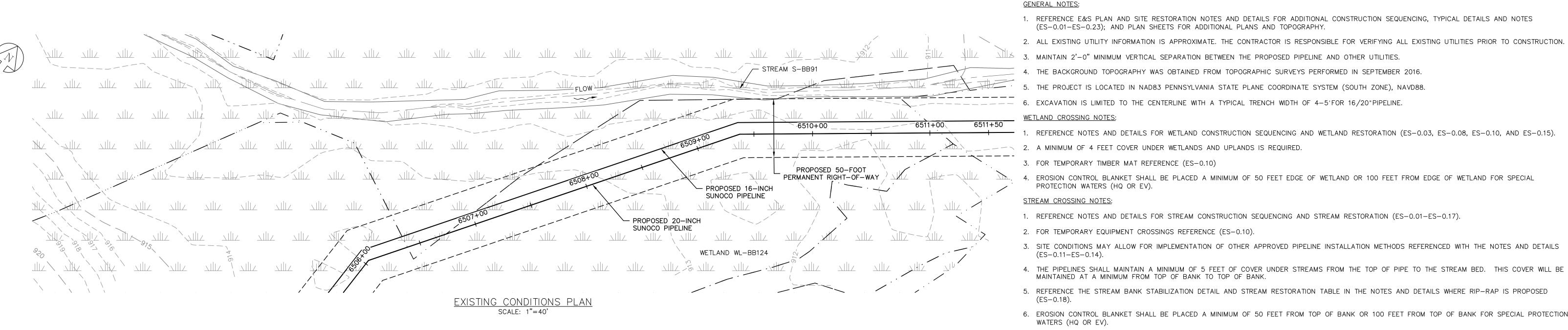
PENNSYLVANIA PIPELINE PROJECT STREAM S-BB44 RESTORATION PLAN

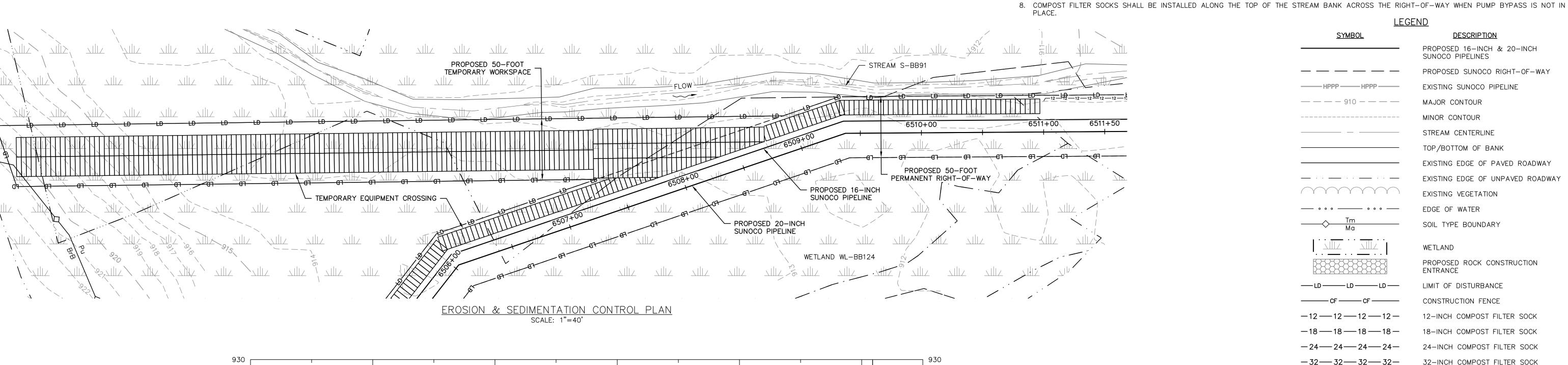
BLAIR COUNTY, PA

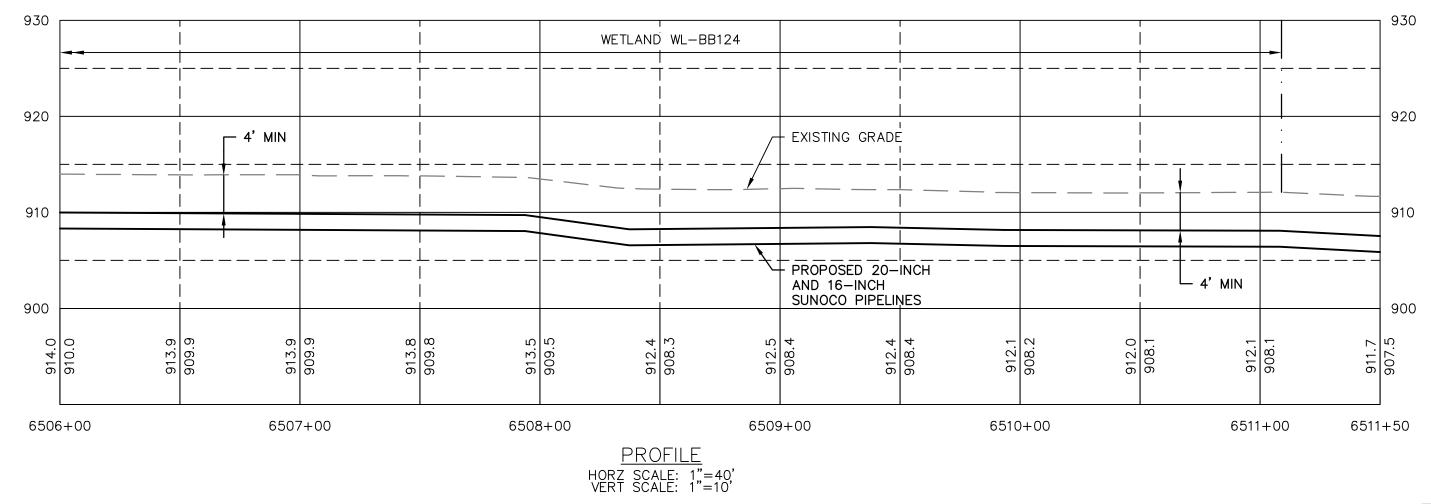
APPROVA

DWG. NO. REV. NO. 0

DESCRIPTION

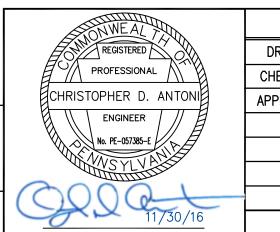






GRAPHIC SCALES

Baltimore, MD - Bismarck, ND - Denver, CO - Douglassville, PA - Houston, TX Pittsburgh, PA Williamsport, PA THE LOCATION OF THE PIPELINE FACILITIES AS SHOWN HEREON MUST BE CONSIDERED AS APPROXIMATE ONLY. BEFORE DIGGING OR FOR AN EXACT LOCATION PLEASE CONTACT YOUR STATES UNDERGROUND UTILITY LOCATION STV PROJECT No.: 38-17335



PE-057385-E

ENGINEERING RECORD DRAWN BY LG CHECKED BY | CDA APPROVED BY | CDA 11/30/16 DATE AS NOTED SCALE

PROFILE LEGEND:

— — — EXISTING GRADE

PROPOSED PIPELINE

EXISTING GRADE ELEV.

PROPOSED TOP OF

PIPE ELEV.

7. TIMBER MATS SHALL EXTEND A MINIMUM OF 20 FEET BEYOND TOP OF BANK.

REV. DATE APP# Sunoco Logistics Partners L.P.

PENNSYLVANIA PIPELINE PROJECT WETLAND WL-BB124 STREAM S-BB91 **EXISTING CONDITIONS/EROSION &** SEDIMENTATION CONTROL PLANS

> BLAIR COUNTY, PA REV. NO.

CHRISTOPHER D. ANTONI

DWG. NO.

1"=40' 1"=10' 

OLD DRAWING NO.

WL-BB124-A

**LEGEND** 

<u>SYMBOL</u>

\_\_\_ 。。。\_\_\_\_ 。。。\_\_\_

**-24 -- 24 -- 24 -- 24 --**

-32—32—32—32—

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 $\times$   $\times$   $\times$   $\times$   $\times$ 

**DESCRIPTION** 

EXISTING SUNOCO PIPELINE

SUNOCO PIPELINES

MAJOR CONTOUR

MINOR CONTOUR

STREAM CENTERLINE

TOP/BOTTOM OF BANK

EXISTING VEGETATION

SOIL TYPE BOUNDARY

LIMIT OF DISTURBANCE

CONSTRUCTION FENCE

EDGE OF WATER

WETLAND

ENTRANCE

PROPOSED 16-INCH & 20-INCH

PROPOSED SUNOCO RIGHT-OF-WAY

EXISTING EDGE OF PAVED ROADWAY

PROPOSED ROCK CONSTRUCTION

12-INCH COMPOST FILTER SOCK

18-INCH COMPOST FILTER SOCK

24-INCH COMPOST FILTER SOCK

32-INCH COMPOST FILTER SOCK

TEMPORARY EQUIPMENT CROSSING

PERMANENT WATER BAR

W/FILTER SOCK

TRENCH PLUG

SANDBAG DAM

SCREENED INLET

CULVERT PIPE

ENERGY DISSIPATER

DEWATERING FACILITY

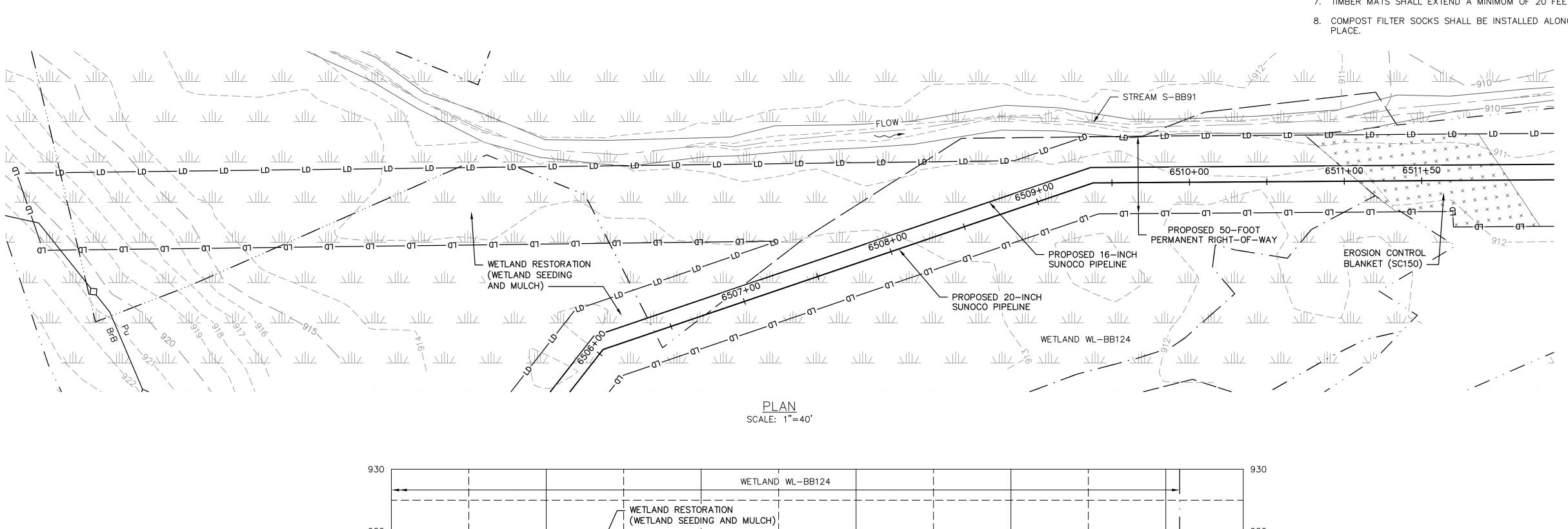
EROSION CONTROL BLANKET

STREAM RESTORATION

PUMP

DESCRIPTION

EXISTING EDGE OF UNPAVED ROADWAY



EXISTING GRADE - PROPOSED 20-INCH AND 16-INCH SUNOCO PIPELIŅES 6507+00 6506+00 6508+00 6509+00 6510+00 RESTORED GRADE PROFILE HORZ SCALE: 1"=40' VERT SCALE: 1"=10'

1"=10

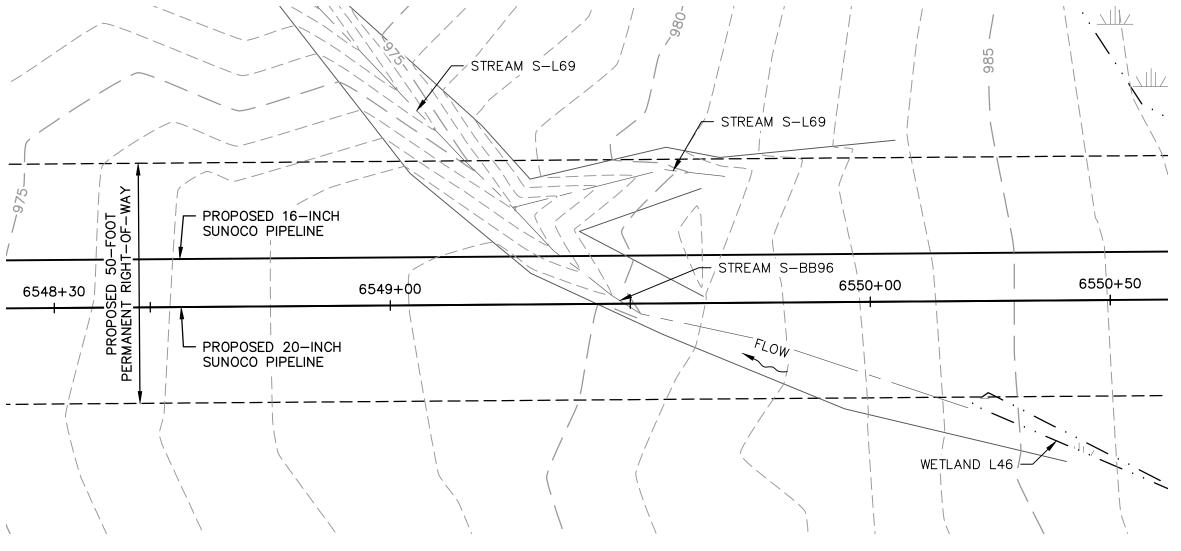
GRAPHIC SCALES

Pittsburgh, PA Williamsport, PA THE LOCATION OF THE PIPELINE FACILITIES AS SHOWN HEREON MUST BE CONSIDERED AS APPROXIMATE ONLY. BEFORE DIGGING OR FOR AN EXACT LOCATION PLEASE CONTACT YOUR STATES UNDERGROUND UTILITY LOCATION STV PROJECT No.: 38-17335

PE-057385-E

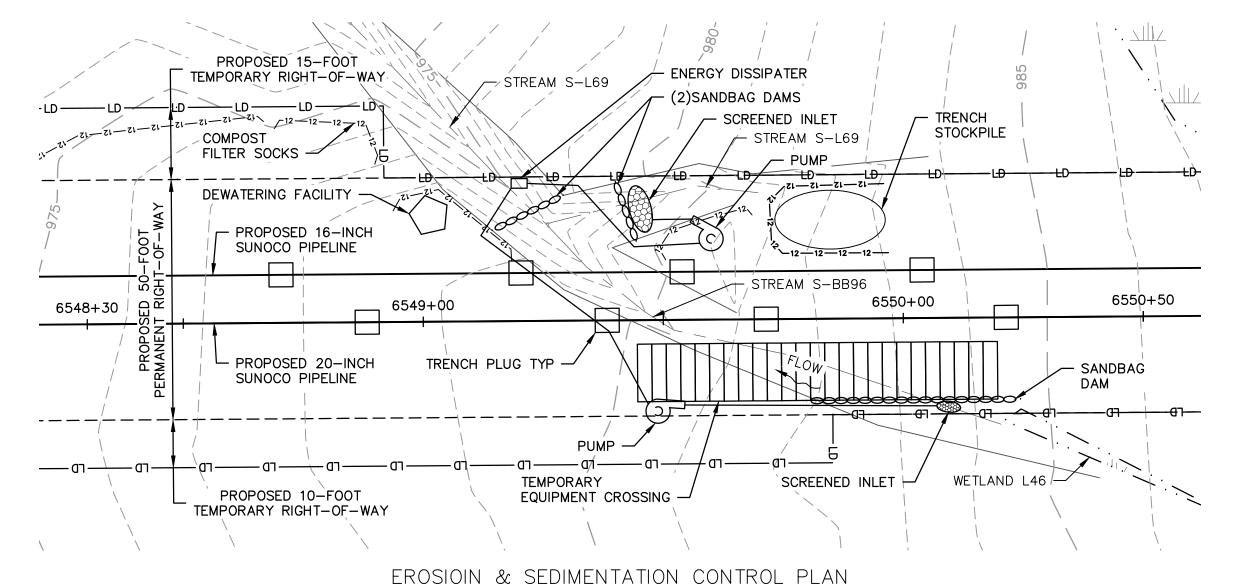
WL-BB124-B





EXISTING CONDITIONS PLAN SCALE: 1"=20'



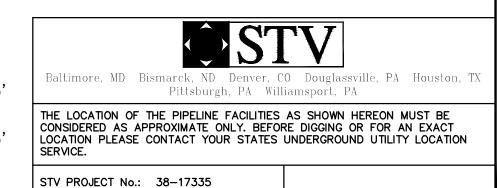


1000 STREAM S-BB96 - EXISTING GRADE 4' MIN → 970 PROPOSED 20-INCH AND 16-INCH 5' MIN -SUNOCO PIPELINES 6549+00 6550+00 6550+50 6548+30 <u>PROFILE</u>

SCALE: 1"=20'

GRAPHIC SCALES 1"=20'

1"=10



#### **GENERAL NOTES:**

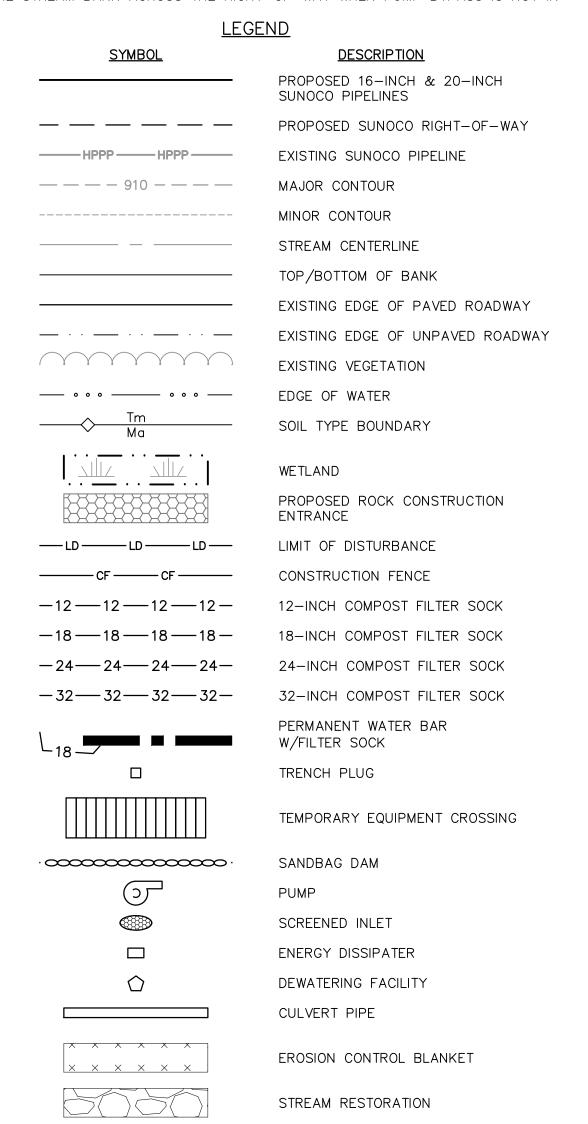
- 1. REFERENCE E&S PLAN AND SITE RESTORATION NOTES AND DETAILS FOR ADDITIONAL CONSTRUCTION SEQUENCING, TYPICAL DETAILS AND NOTES (ES-0.01-ES-0.23); AND PLAN SHEETS FOR ADDITIONAL PLANS AND TOPOGRAPHY.
- 2. ALL EXISTING UTILITY INFORMATION IS APPROXIMATE. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
- 3. MAINTAIN 2'-0" MINIMUM VERTICAL SEPARATION BETWEEN THE PROPOSED PIPELINE AND OTHER UTILITIES.
- 4. THE BACKGROUND TOPOGRAPHY WAS OBTAINED FROM TOPOGRAPHIC SURVEYS PERFORMED IN SEPTEMBER 2016.
- 5. THE PROJECT IS LOCATED IN NAD83 PENNSYLVANIA STATE PLANE COORDINATE SYSTEM (SOUTH ZONE), NAVD88.
- 6. EXCAVATION IS LIMITED TO THE CENTERLINE WITH A TYPICAL TRENCH WIDTH OF 4-5'FOR 16/20"PIPELINE.

#### WETLAND CROSSING NOTES:

- 1. REFERENCE NOTES AND DETAILS FOR WETLAND CONSTRUCTION SEQUENCING AND WETLAND RESTORATION (ES-0.03, ES-0.08, ES-0.10, AND ES-0.15).
- 2. A MINIMUM OF 4 FEET COVER UNDER WETLANDS AND UPLANDS IS REQUIRED.
- 3. FOR TEMPORARY TIMBER MAT REFERENCE (ES-0.10)
- 4. EROSION CONTROL BLANKET SHALL BE PLACED A MINIMUM OF 50 FEET EDGE OF WETLAND OR 100 FEET FROM EDGE OF WETLAND FOR SPECIAL PROTECTION WATERS (HQ OR EV).

# STREAM CROSSING NOTES:

- 1. REFERENCE NOTES AND DETAILS FOR STREAM CONSTRUCTION SEQUENCING AND STREAM RESTORATION (ES-0.01-ES-0.17).
- 2. FOR TEMPORARY EQUIPMENT CROSSINGS REFERENCE (ES-0.10).
- 3. SITE CONDITIONS MAY ALLOW FOR IMPLEMENTATION OF OTHER APPROVED PIPELINE INSTALLATION METHODS REFERENCED WITH THE NOTES AND DETAILS (ES-0.11-ES-0.14).
- 4. THE PIPELINES SHALL MAINTAIN A MINIMUM OF 5 FEET OF COVER UNDER STREAMS FROM THE TOP OF PIPE TO THE STREAM BED. THIS COVER WILL BE MAINTAINED AT A MINIMUM FROM TOP OF BANK TO TOP OF BANK.
- 5. REFERENCE THE STREAM BANK STABILIZATION DETAIL AND STREAM RESTORATION TABLE IN THE NOTES AND DETAILS WHERE RIP-RAP IS PROPOSED (ES-0.18).
- 6. EROSION CONTROL BLANKET SHALL BE PLACED A MINIMUM OF 50 FEET FROM TOP OF BANK OR 100 FEET FROM TOP OF BANK FOR SPECIAL PROTECTION WATERS (HQ OR EV).
- 7. TIMBER MATS SHALL EXTEND A MINIMUM OF 20 FEET BEYOND TOP OF BANK.
- 8. COMPOST FILTER SOCKS SHALL BE INSTALLED ALONG THE TOP OF THE STREAM BANK ACROSS THE RIGHT-OF-WAY WHEN PUMP BYPASS IS NOT IN



REV. DATE ENGINEERING RECORD REGISTERED DRAWN BY CNN PROFESSIONAL CHECKED BY CDA CHRISTOPHER D. ANTONI APPROVED BY CDA ENGINEER 11/30/16 DATE No. PE-057385-E / AS NOTED SCALE

OLD DRAWING NO.

CHRISTOPHER D. ANTONI

PE-057385-E

PROFILE LEGEND:

— — — EXISTING GRADE

---- PROPOSED PIPELINE

PIPE ELEV.

EXISTING GRADE ELEV.

PROPOSED TOP OF

Sunoco Logistics Partners L.P.

APP#

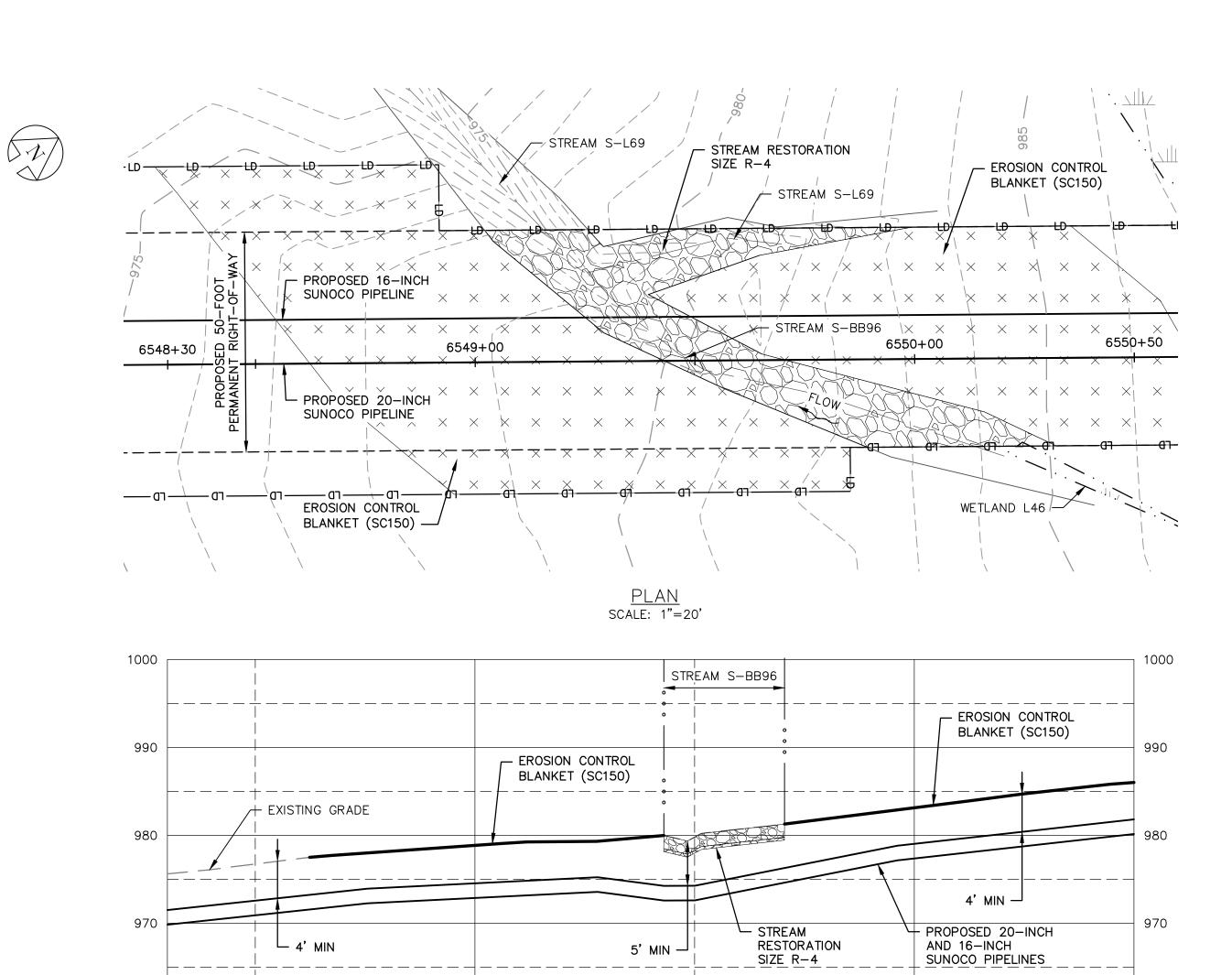
PENNSYLVANIA PIPELINE PROJECT STREAMS S-L72 & S-BB96 **EXISTING CONDITIONS/EROSION &** SEDIMENTATION CONTROL PLANS

DESCRIPTION

BLAIR COUNTY, PA

APPROVAL

DWG. NO. S-BB96-A REV. NO.



RESTORED GRADE PROFILE HORZ SCALE: 1"=20' VERT SCALE: 1"=10'

6549+00

960

6548+30

# GRAPHIC SCALES 1"=20' 1"=10'

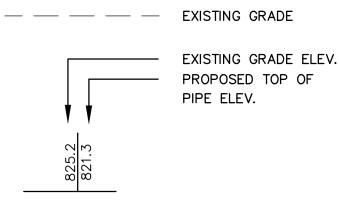
6550+00

6550+50





# PROFILE LEGEND: PROPOSED PIPELINE



ENGINEERING RECORD

11/30/16

AS NOTED

DRAWN BY CNN

CHECKED BY CDA

APPROVED BY | CDA

DATE

SCALE

# **GENERAL NOTES:**

- 1. REFERENCE E&S PLAN AND SITE RESTORATION NOTES AND DETAILS FOR ADDITIONAL CONSTRUCTION SEQUENCING, TYPICAL DETAILS AND NOTES (ES-0.01-ES-0.23); AND PLAN SHEETS FOR ADDITIONAL PLANS AND TOPOGRAPHY.
- 2. ALL EXISTING UTILITY INFORMATION IS APPROXIMATE. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
- 3. MAINTAIN 2'-0" MINIMUM VERTICAL SEPARATION BETWEEN THE PROPOSED PIPELINE AND OTHER UTILITIES.
- 4. THE BACKGROUND TOPOGRAPHY WAS OBTAINED FROM TOPOGRAPHIC SURVEYS PERFORMED IN SEPTEMBER 2016.
- 5. THE PROJECT IS LOCATED IN NAD83 PENNSYLVANIA STATE PLANE COORDINATE SYSTEM (SOUTH ZONE), NAVD88.
- 6. EXCAVATION IS LIMITED TO THE CENTERLINE WITH A TYPICAL TRENCH WIDTH OF 4-5'FOR 16/20"PIPELINE.

#### WETLAND CROSSING NOTES:

- 1. REFERENCE NOTES AND DETAILS FOR WETLAND CONSTRUCTION SEQUENCING AND WETLAND RESTORATION (ES-0.03, ES-0.08, ES-0.10, AND ES-0.15).
- 2. A MINIMUM OF 4 FEET COVER UNDER WETLANDS AND UPLANDS IS REQUIRED.
- 3. FOR TEMPORARY TIMBER MAT REFERENCE (ES-0.10)
- 4. EROSION CONTROL BLANKET SHALL BE PLACED A MINIMUM OF 50 FEET EDGE OF WETLAND OR 100 FEET FROM EDGE OF WETLAND FOR SPECIAL PROTECTION WATERS (HQ OR EV).

#### STREAM CROSSING NOTES:

- 1. REFERENCE NOTES AND DETAILS FOR STREAM CONSTRUCTION SEQUENCING AND STREAM RESTORATION (ES-0.01-ES-0.17).
- 2. FOR TEMPORARY EQUIPMENT CROSSINGS REFERENCE (ES-0.10).
- 3. SITE CONDITIONS MAY ALLOW FOR IMPLEMENTATION OF OTHER APPROVED PIPELINE INSTALLATION METHODS REFERENCED WITH THE NOTES AND DETAILS (ES-0.11-ES-0.14).
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- 5. REFERENCE THE STREAM BANK STABILIZATION DETAIL AND STREAM RESTORATION TABLE IN THE NOTES AND DETAILS WHERE RIP-RAP IS PROPOSED (ES-0.18).
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- 7. TIMBER MATS SHALL EXTEND A MINIMUM OF 20 FEET BEYOND TOP OF BANK.
- 8. COMPOST FILTER SOCKS SHALL BE INSTALLED ALONG THE TOP OF THE STREAM BANK ACROSS THE RIGHT-OF-WAY WHEN PUMP BYPASS IS NOT IN

# <u>LEGEND</u> <u>SYMBOL</u> **DESCRIPTION** PROPOSED 16-INCH & 20-INCH SUNOCO PIPELINES PROPOSED SUNOCO RIGHT-OF-WAY ——— HPPP ——— HPPP ——— EXISTING SUNOCO PIPELINE — — — — 910 — — — — MAJOR CONTOUR MINOR CONTOUR STREAM CENTERLINE TOP/BOTTOM OF BANK EXISTING EDGE OF PAVED ROADWAY EXISTING EDGE OF UNPAVED ROADWAY EXISTING VEGETATION SOIL TYPE BOUNDARY WETLAND PROPOSED ROCK CONSTRUCTION ENTRANCE LIMIT OF DISTURBANCE —LD — LD — LD — CONSTRUCTION FENCE 12-INCH COMPOST FILTER SOCK 18-INCH COMPOST FILTER SOCK -18 - 18 - 18 - 18 - 18 --24--24--24--24-24-INCH COMPOST FILTER SOCK -32—32—32—32— 32-INCH COMPOST FILTER SOCK PERMANENT WATER BAR W/FILTER SOCK TRENCH PLUG TEMPORARY EQUIPMENT CROSSING • SANDBAG DAM $\overline{\mathcal{O}}$ PUMP SCREENED INLET ENERGY DISSIPATER DEWATERING FACILITY CULVERT PIPE EROSION CONTROL BLANKET $\times$ $\times$ $\times$ $\times$ $\times$ STREAM RESTORATION

REV. DATE APP# APPROVAL **DESCRIPTION** PENNSYLVANIA PIPELINE PROJECT STREAMS S-L72 & S-BB96 **RESTORATION PLAN** 

**Sunoco Logistics** Partners L.P.

> BLAIR COUNTY, PA REV. NO.

CHRISTOPHER D. ANTONI PE-057385-E

REGISTERED

PROFESSIONAL /

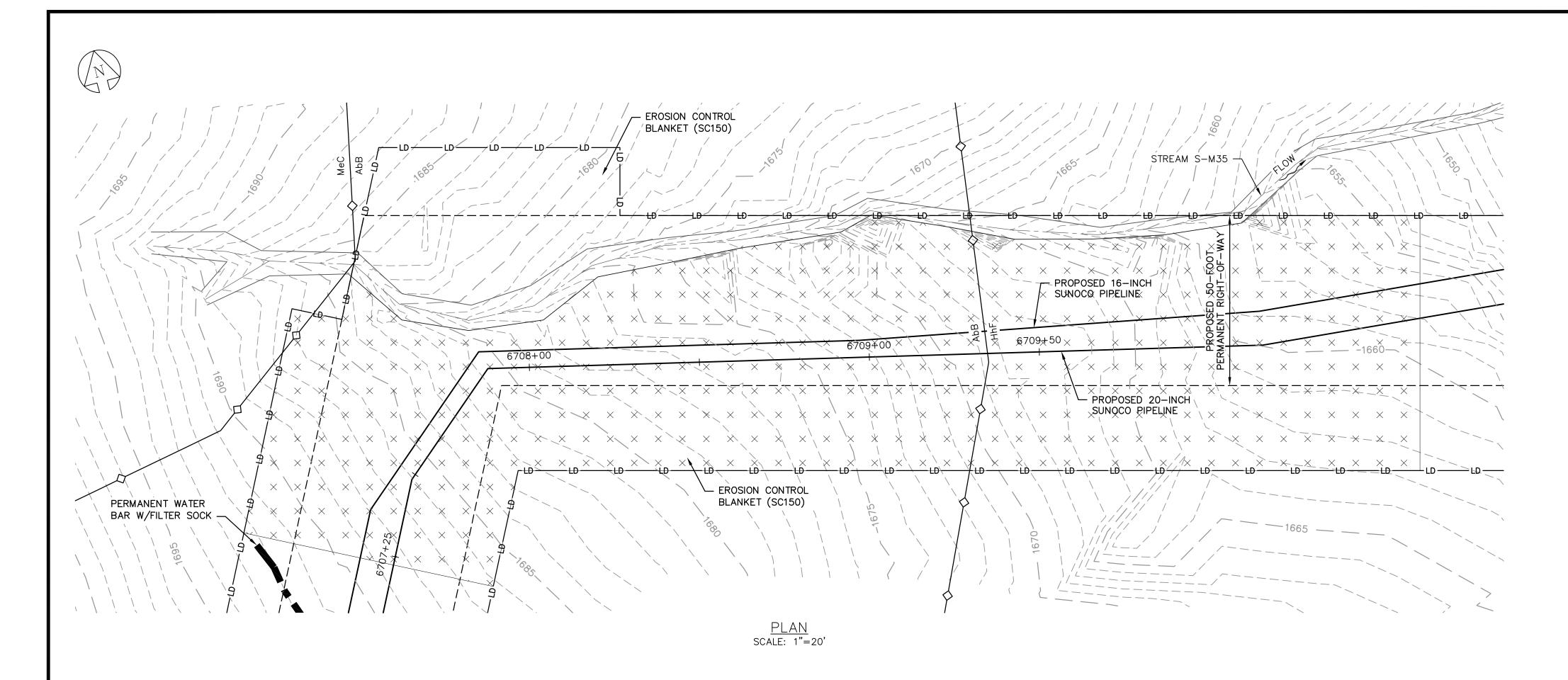
CHRISTOPHER D. ANTONI

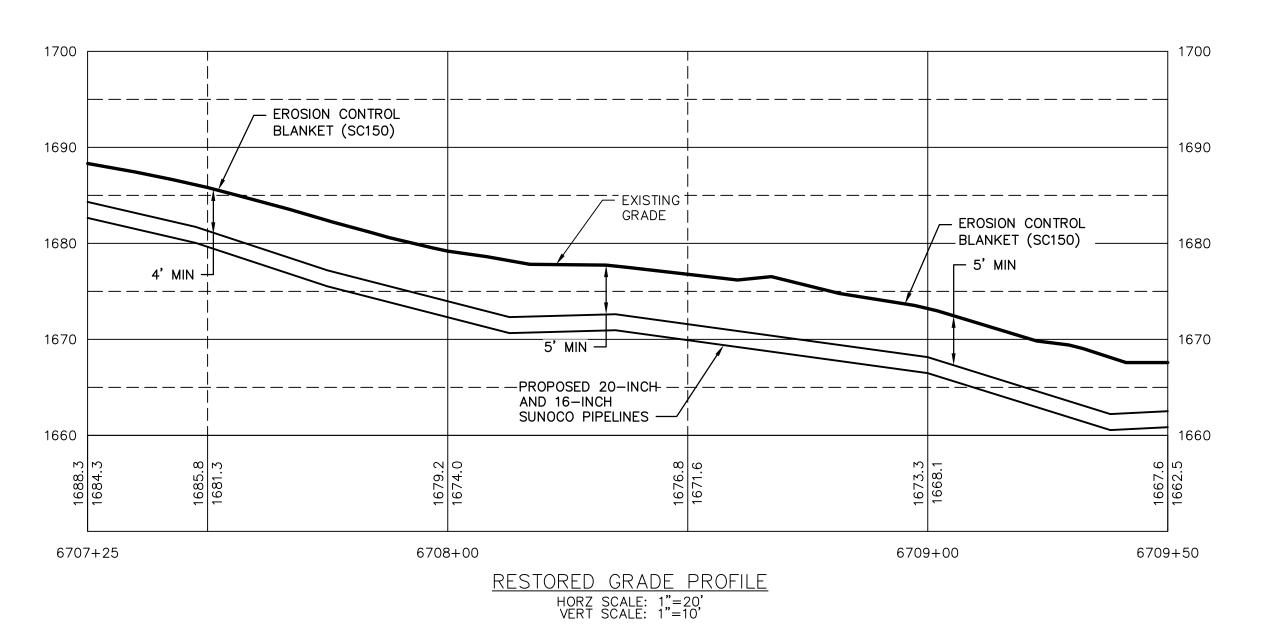
ENGINEER

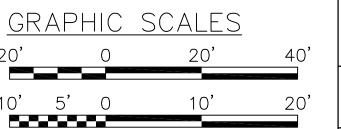
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OLD DRAWING NO.

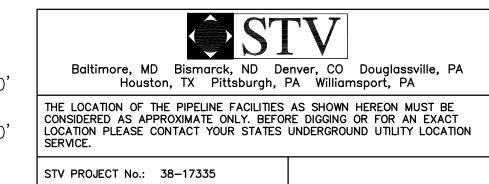
DWG. NO. S-BB96-B 0

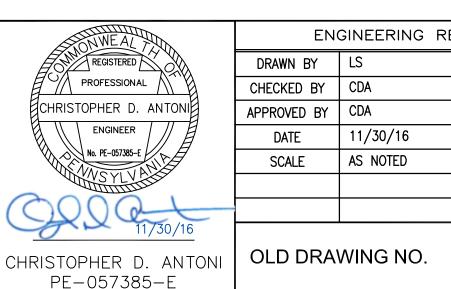






1"=10'





**GENERAL NOTES:** 

WETLAND CROSSING NOTES:

STREAM CROSSING NOTES:

(ES-0.11-ES-0.14).

WATERS (HQ OR EV).

(ES-0.18).

PLACE.

REV. DATE APP# ENGINEERING RECORD

PROFILE LEGEND:

— — — EXISTING GRADE

PROPOSED PIPELINE

EXISTING GRADE ELEV.

PROPOSED TOP OF

PIPE ELEV.

DESCRIPTION APPROVA PENNSYLVANIA PIPELINE PROJECT STREAM S-M35 RESTORATION PLAN

BLAIR COUNTY, PA

EXISTING EDGE OF PAVED ROADWAY EXISTING EDGE OF UNPAVED ROADWAY EXISTING VEGETATION EDGE OF WATER

**DESCRIPTION** 

EXISTING SUNOCO PIPELINE

SUNOCO PIPELINES

MAJOR CONTOUR

MINOR CONTOUR

STREAM CENTERLINE

TOP/BOTTOM OF BANK

PROPOSED 16-INCH & 20-INCH

PROPOSED SUNOCO RIGHT-OF-WAY

SOIL TYPE BOUNDARY WETLAND

**LEGEND** 

1. REFERENCE E&S PLAN AND SITE RESTORATION NOTES AND DETAILS FOR ADDITIONAL CONSTRUCTION SEQUENCING, TYPICAL DETAILS AND NOTES

2. ALL EXISTING UTILITY INFORMATION IS APPROXIMATE. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.

1. REFERENCE NOTES AND DETAILS FOR WETLAND CONSTRUCTION SEQUENCING AND WETLAND RESTORATION (ES-0.03, ES-0.08, ES-0.10, AND ES-0.15).

3. SITE CONDITIONS MAY ALLOW FOR IMPLEMENTATION OF OTHER APPROVED PIPELINE INSTALLATION METHODS REFERENCED WITH THE NOTES AND DETAILS

4. THE PIPELINES SHALL MAINTAIN A MINIMUM OF 5 FEET OF COVER UNDER STREAMS FROM THE TOP OF PIPE TO THE STREAM BED. THIS COVER WILL BE

6. EROSION CONTROL BLANKET SHALL BE PLACED A MINIMUM OF 50 FEET FROM TOP OF BANK OR 100 FEET FROM TOP OF BANK FOR SPECIAL PROTECTION

<u>SYMBOL</u>

— — — — 910 — — — —

5. REFERENCE THE STREAM BANK STABILIZATION DETAIL AND STREAM RESTORATION TABLE IN THE NOTES AND DETAILS WHERE RIP-RAP IS PROPOSED

8. COMPOST FILTER SOCKS SHALL BE INSTALLED ALONG THE TOP OF THE STREAM BANK ACROSS THE RIGHT-OF-WAY WHEN PUMP BYPASS IS NOT IN

4. EROSION CONTROL BLANKET SHALL BE PLACED A MINIMUM OF 50 FEET EDGE OF WETLAND OR 100 FEET FROM EDGE OF WETLAND FOR SPECIAL

(ES-0.01-ES-0.23); AND PLAN SHEETS FOR ADDITIONAL PLANS AND TOPOGRAPHY.

2. A MINIMUM OF 4 FEET COVER UNDER WETLANDS AND UPLANDS IS REQUIRED.

3. FOR TEMPORARY TIMBER MAT REFERENCE (ES-0.10)

2. FOR TEMPORARY EQUIPMENT CROSSINGS REFERENCE (ES-0.10).

MAINTAINED AT A MINIMUM FROM TOP OF BANK TO TOP OF BANK.

7. TIMBER MATS SHALL EXTEND A MINIMUM OF 20 FEET BEYOND TOP OF BANK.

PROTECTION WATERS (HQ OR EV).

3. MAINTAIN 2'-0" MINIMUM VERTICAL SEPARATION BETWEEN THE PROPOSED PIPELINE AND OTHER UTILITIES.

6. EXCAVATION IS LIMITED TO THE CENTERLINE WITH A TYPICAL TRENCH WIDTH OF 4-5'FOR 16/20" PIPELINE.

4. THE BACKGROUND TOPOGRAPHY WAS OBTAINED FROM TOPOGRAPHIC SURVEYS PERFORMED IN SEPTEMBER 2016.

5. THE PROJECT IS LOCATED IN NAD83 PENNSYLVANIA STATE PLANE COORDINATE SYSTEM (SOUTH ZONE), NAVD88.

1. REFERENCE NOTES AND DETAILS FOR STREAM CONSTRUCTION SEQUENCING AND STREAM RESTORATION (ES-0.01-ES-0.17).

PROPOSED ROCK CONSTRUCTION ENTRANCE LIMIT OF DISTURBANCE —LD——LD——LD— CONSTRUCTION FENCE

-12 - 12 - 12 - 12 - 12 -12-INCH COMPOST FILTER SOCK 18-INCH COMPOST FILTER SOCK 24-INCH COMPOST FILTER SOCK -24--24--24--24-

-32—32—32—32— 32-INCH COMPOST FILTER SOCK PERMANENT WATER BAR W/FILTER SOCK TRENCH PLUG

TEMPORARY EQUIPMENT CROSSING SANDBAG DAM •

 $\mathcal{I}$ PUMP SCREENED INLET ENERGY DISSIPATER

DEWATERING FACILITY CULVERT PIPE  $\times$   $\times$   $\times$   $\times$   $\times$ EROSION CONTROL BLANKET

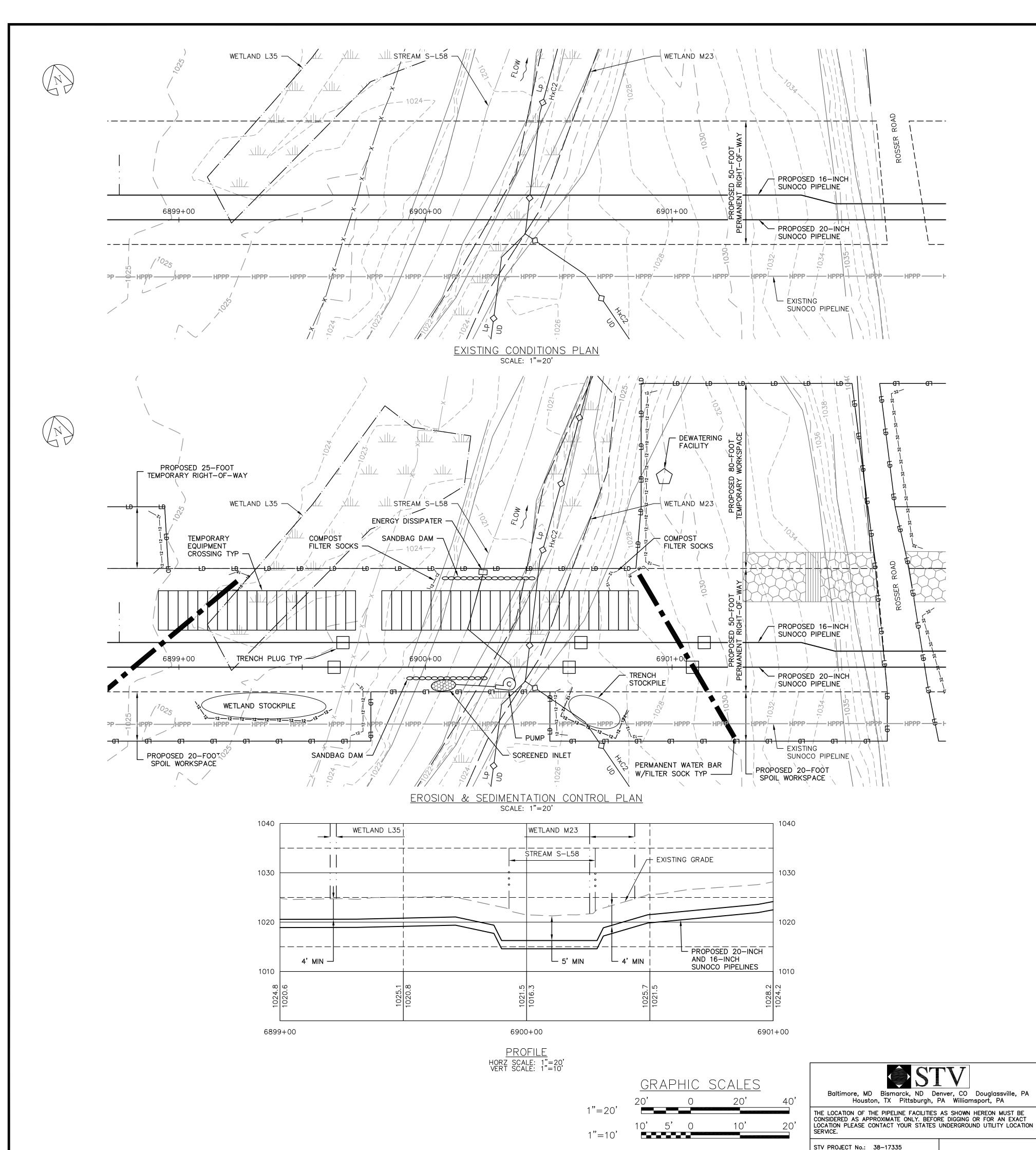
STREAM RESTORATION

Sunoco Logistics

Partners L.P.

S-M35-B

DWG. NO. REV. NO.



#### **GENERAL NOTES:**

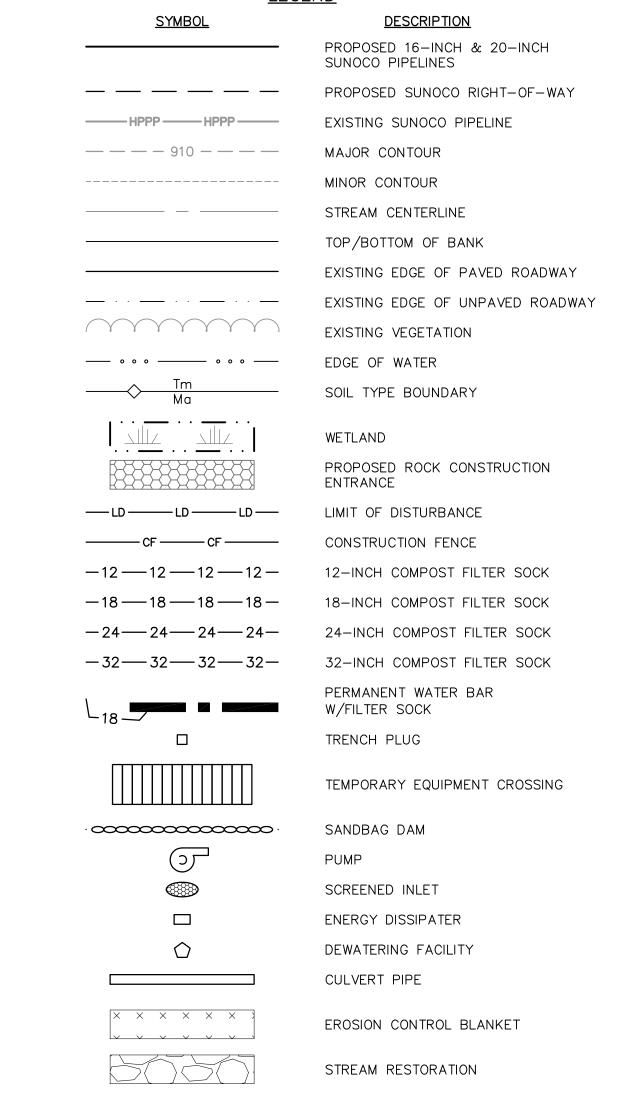
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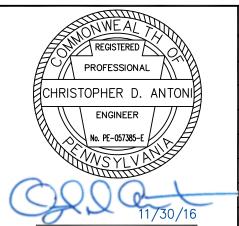
#### WETLAND CROSSING NOTES:

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#### STREAM CROSSING NOTES:

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- 8. COMPOST FILTER SOCKS SHALL BE INSTALLED ALONG THE TOP OF THE STREAM BANK ACROSS THE RIGHT-OF-WAY WHEN PUMP BYPASS IS NOT IN PLACE. **LEGEND**





CHRISTOPHER D. ANTONI

PE-057385-E

ENGINEERING RECORD DRAWN BY LS CHECKED BY | CDA APPROVED BY | CDA 11/30/16 DATE AS NOTED SCALE

OLD DRAWING NO.

PROFILE LEGEND:

— — — EXISTING GRADE

PROPOSED PIPELINE

EXISTING GRADE ELEV.

PROPOSED TOP OF

PIPE ELEV.

**Sunoco Logistics** Partners L.P.

REV. DATE APP#

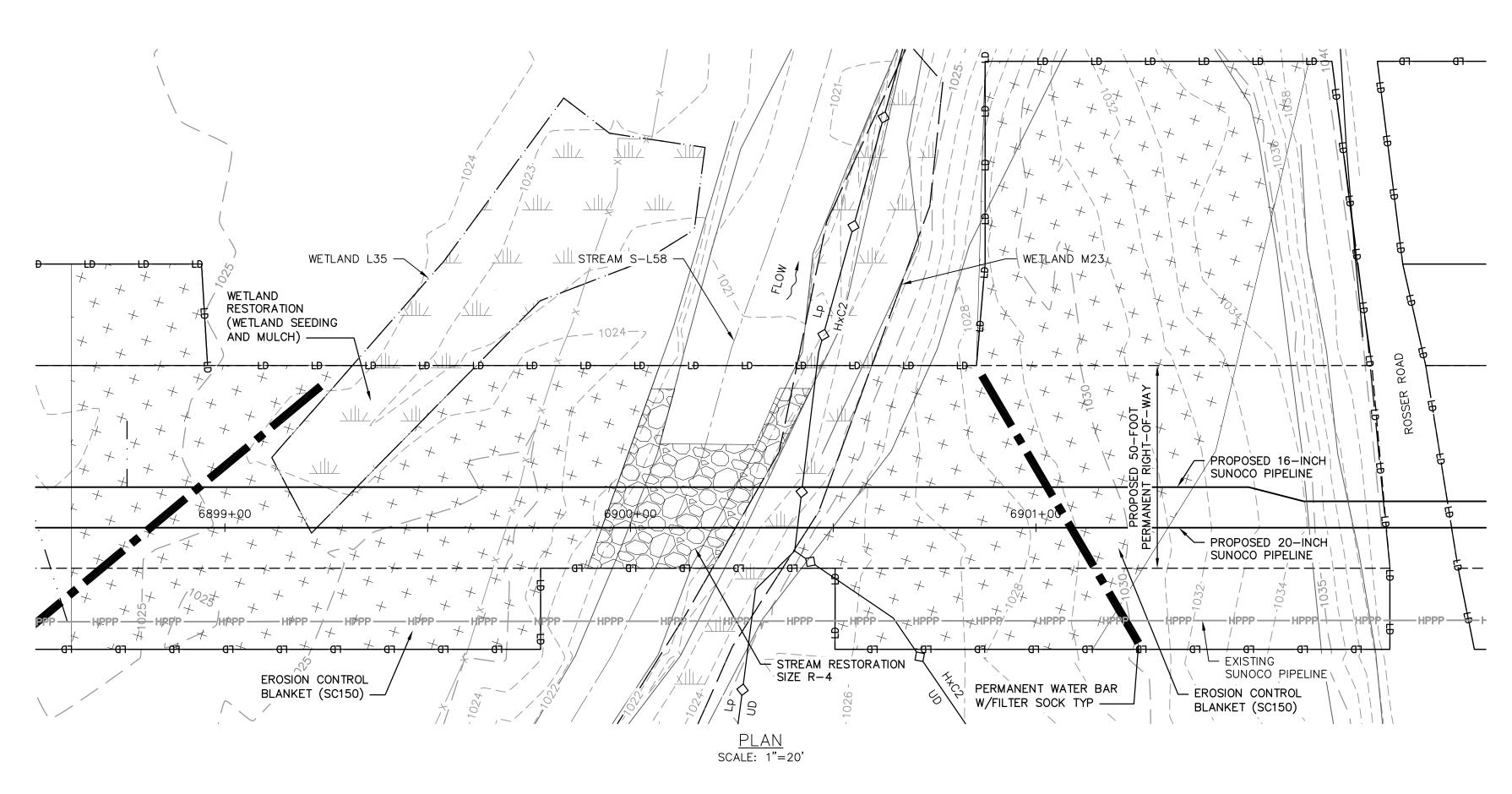
PENNSYLVANIA PIPELINE PROJECT STREAM S-L58 **EXISTING CONDITIONS/EROSION &** SEDIMENTATION CONTROL PLANS

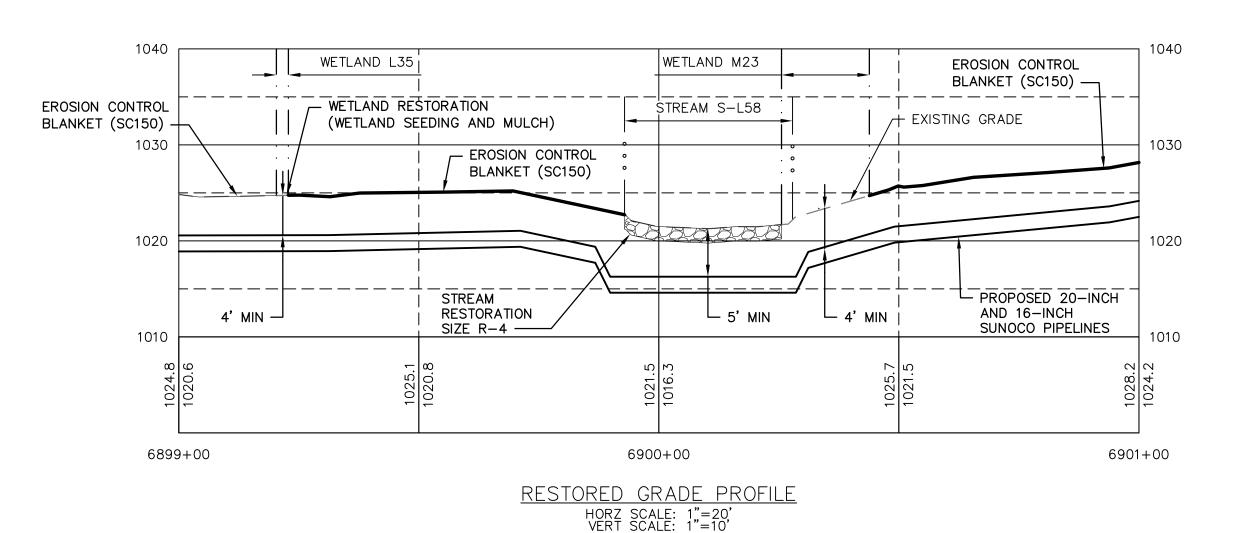
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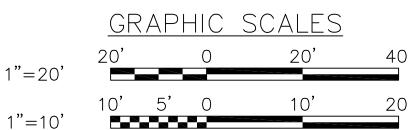
BLAIR COUNTY, PA

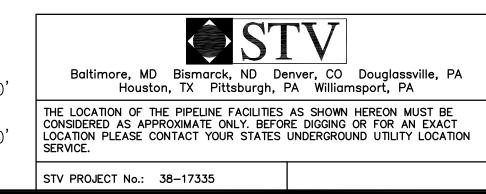
DWG. NO. S-L58-A

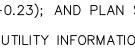












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- 6. EXCAVATION IS LIMITED TO THE CENTERLINE WITH A TYPICAL TRENCH WIDTH OF 4-5'FOR 16/20"PIPELINE.

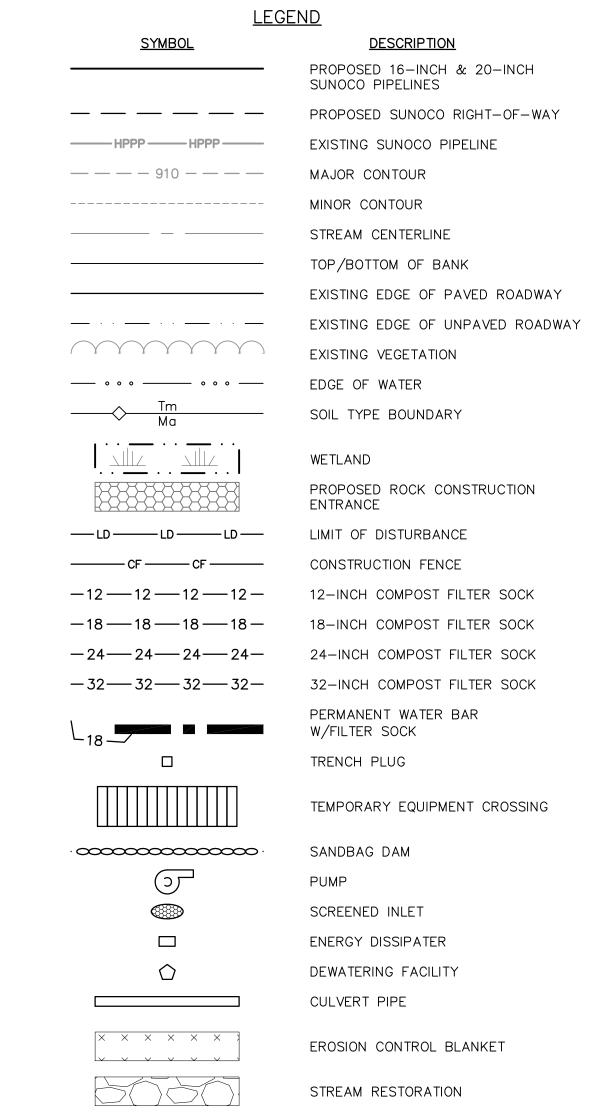
#### WETLAND CROSSING NOTES:

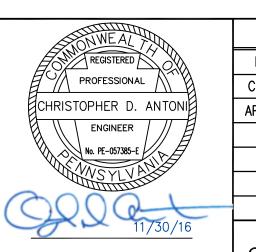
**GENERAL NOTES:** 

- 1. REFERENCE NOTES AND DETAILS FOR WETLAND CONSTRUCTION SEQUENCING AND WETLAND RESTORATION (ES-0.03, ES-0.08, ES-0.10, AND ES-0.15).
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#### STREAM CROSSING NOTES:

- 1. REFERENCE NOTES AND DETAILS FOR STREAM CONSTRUCTION SEQUENCING AND STREAM RESTORATION (ES-0.01-ES-0.17).
- 2. FOR TEMPORARY EQUIPMENT CROSSINGS REFERENCE (ES-0.10).
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- 8. COMPOST FILTER SOCKS SHALL BE INSTALLED ALONG THE TOP OF THE STREAM BANK ACROSS THE RIGHT—OF—WAY WHEN PUMP BYPASS IS NOT IN PLACE.





DRAWN BY LS

CHECKED BY CDA

APPROVED BY CDA

DATE 11/30/16

SCALE AS NOTED

PROFILE LEGEND:

— — — EXISTING GRADE

PROPOSED PIPELINE

EXISTING GRADE ELEV.

PROPOSED TOP OF

PIPE ELEV.

Sunoco Logistics Partners L.P.

REV. DATE APP#

PENNSYLVANIA PIPELINE PROJECT STREAM S-L58 RESTORATION PLAN

DESCRIPTION

BLAIR COUNTY, PA

APPROVA

DWG. NO. S-L58-B

11/30/16
CHRISTOPHER D. ANTONI
PE-057385-E

OLD DRAWING NO.