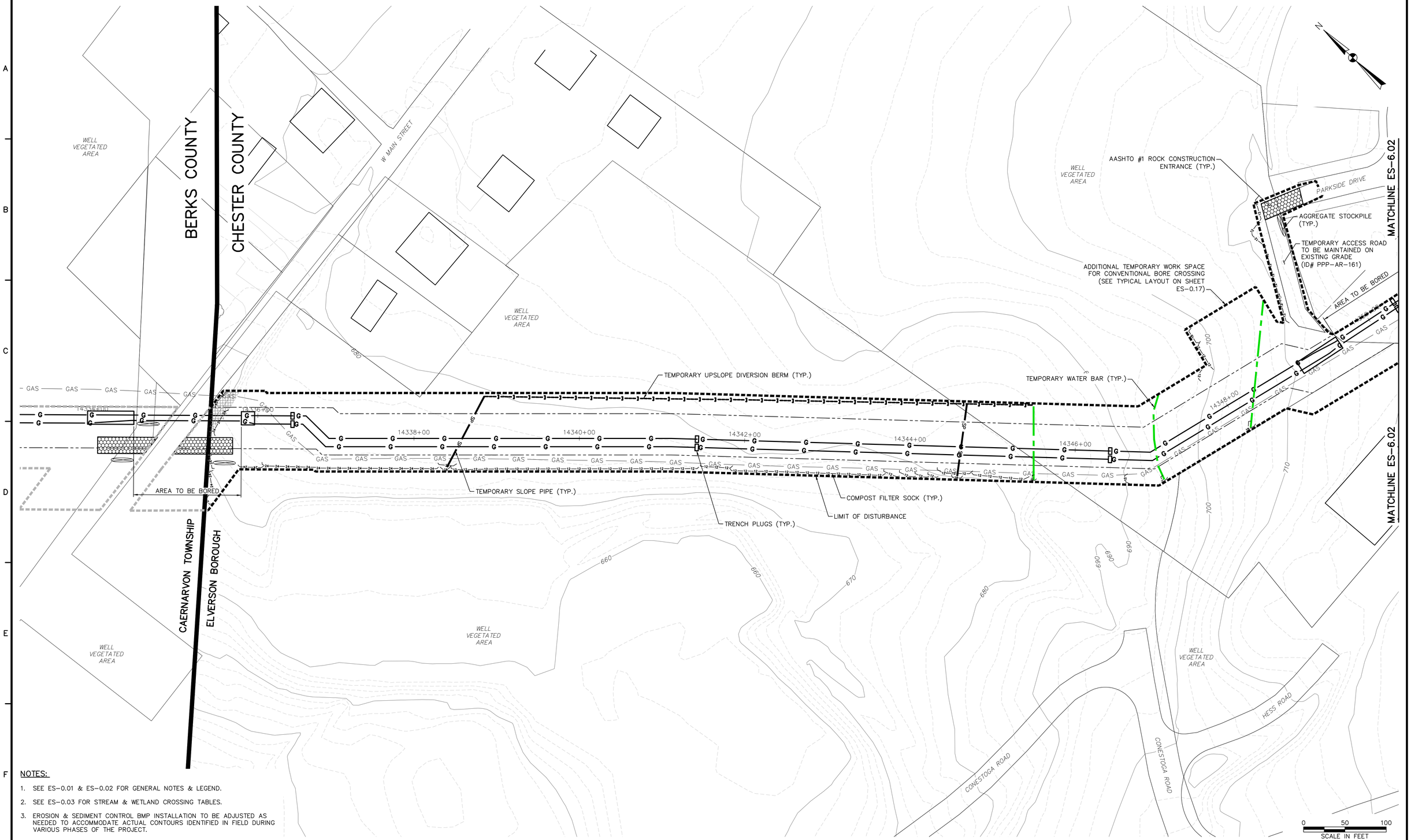

NOTES:

1. SEE ES-0.01 & ES-0.02 FOR GENERAL NOTES & LEGEND.
2. SEE ES-0.03 FOR STREAM & WETLAND CROSSING TABLES.
3. EROSION & SEDIMENT CONTROL BMP INSTALLATION TO BE ADJUSTED AS NEEDED TO ACCOMMODATE ACTUAL CONTOURS IDENTIFIED IN FIELD DURING VARIOUS PHASES OF THE PROJECT.

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REVISIONS

NO.	BY	DATE	REMARKS

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ENGINEER ROBERT F. SIMCIK PE-090435-E

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 6

1-20" & 1-16" WELDED STEEL NATURAL GAS PIPELINES

CHESTER COUNTY CONSERVATION DISTRICT
EROSION & SEDIMENT CONTROL &
SITE RESTORATION PLAN
SHEET 1 OF 74

DATE:	2/4/17
PROJECT NO.:	112C05958
DESIGNED BY:	JB
DRAWN BY:	BH
CHECKED BY:	RS

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SHEET 6.01 OF 99

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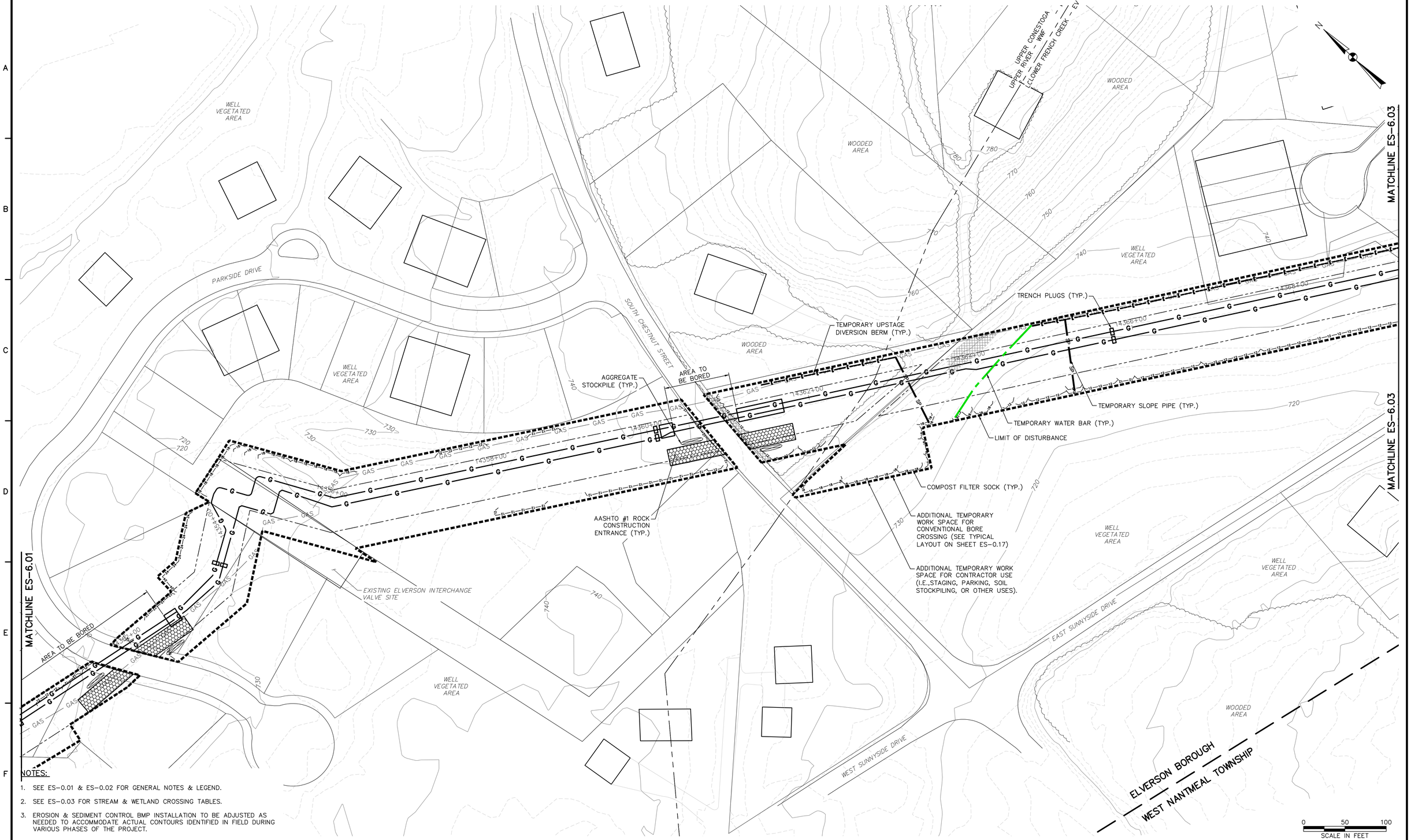

NOTES:

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REVISIONS

NO.	BY	DATE	REMARKS

COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL ENGINEER — ROBERT F. SIMCIK — PE-026426-E

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 6

1–20" & 1–16" WELDED STEEL NATURAL GAS PIPELINES

CHESTER COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 2 OF 74

DATE:	2/4/17
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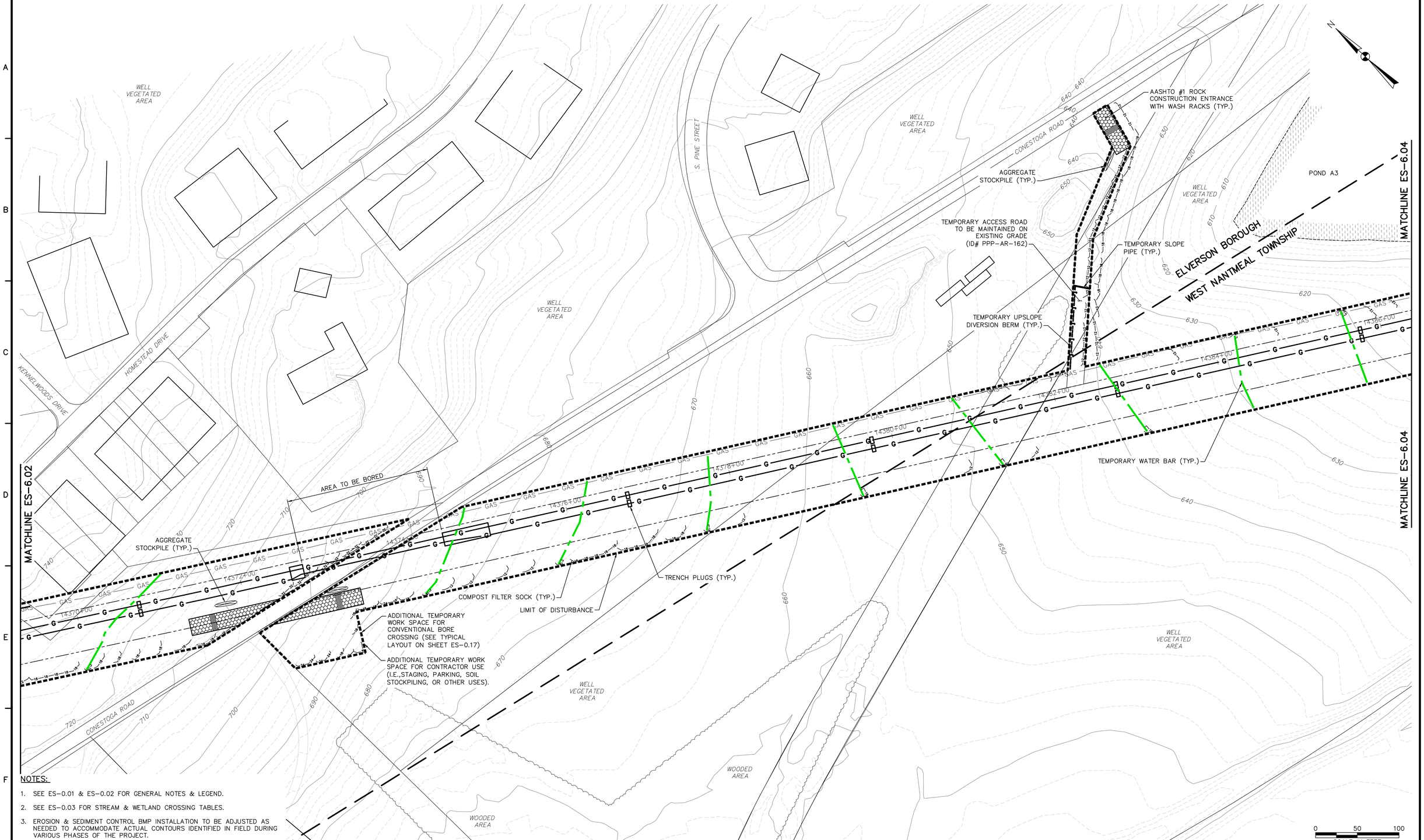

NOTES:

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REVISIONS

NO.	BY	DATE	REMARKS

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ROBERT F. SIMCIK ENGINEER PE-060435-E

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT
CONSTRUCTION SPREAD 6

1-20" & 1-16" WELDED STEEL NATURAL GAS PIPELINES

CHESTER COUNTY CONSERVATION DISTRICT
EROSION & SEDIMENT CONTROL &
SITE RESTORATION PLAN
SHEET 3 OF 74

DATE:	2/4/17
PROJECT NO.:	112C05958
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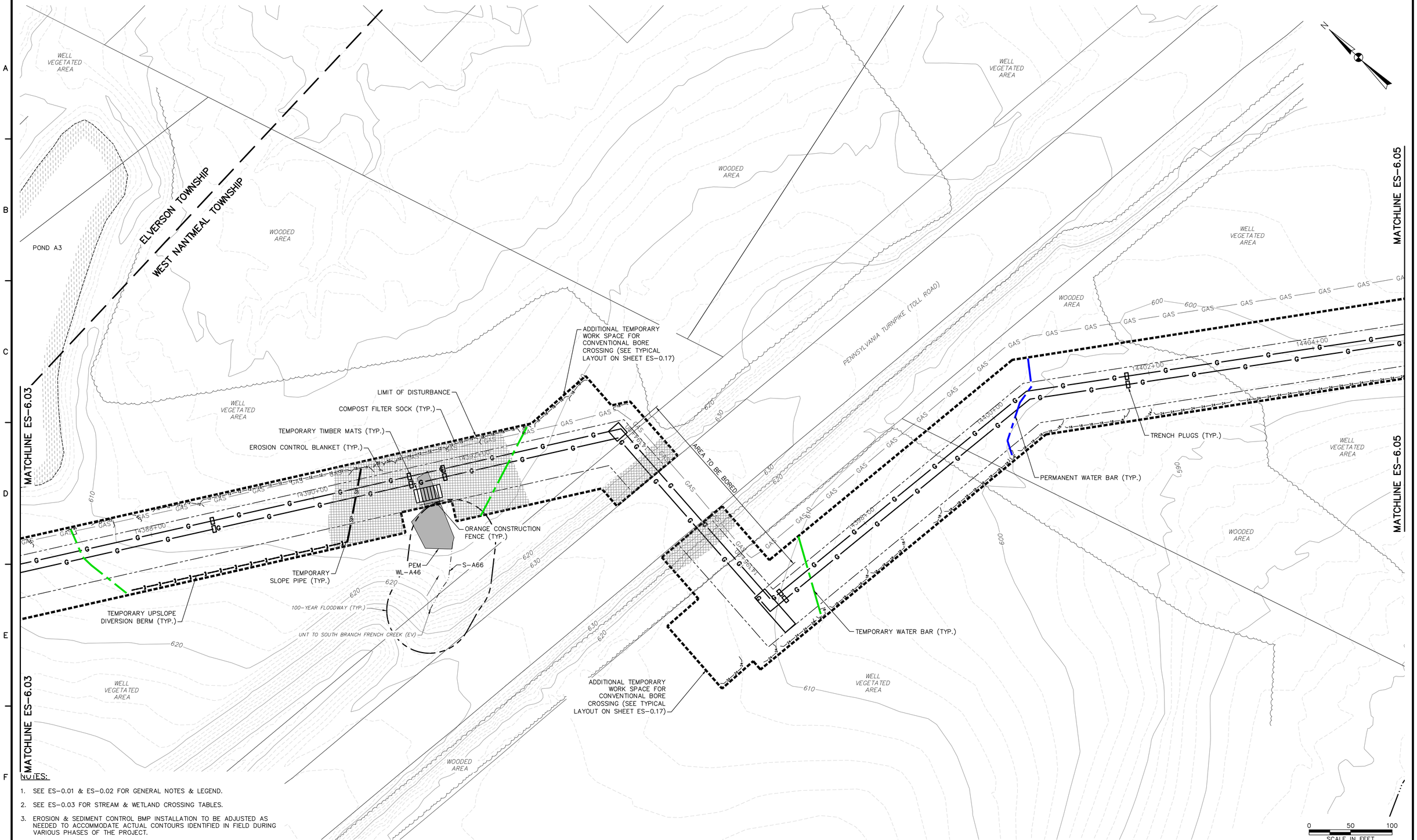
ELVERSON TOWNSHIP
WEST NANTMEAL TOWNSHIP
POND A3
WELL VEGETATED AREA
WOODED AREA
PENNSYLVANIA TURNPIKE (TOLL ROAD)
MATCHLINE ES-6.03
MATCHLINE ES-6.05
ADDITIONAL TEMPORARY WORK SPACE FOR CONVENTIONAL BORE CROSSING (SEE TYPICAL LAYOUT ON SHEET ES-0.17)
LIMIT OF DISTURBANCE
COMPOST FILTER SOCK (TYP.)
TEMPORARY TIMBER MATS (TYP.)
EROSION CONTROL BLANKET (TYP.)
AREA TO BE BORED
ORANGE CONSTRUCTION FENCE (TYP.)
TEMPORARY SLOPE PIPE (TYP.)
PEM WL-A46
S-A66
100-YEAR FLOODWAY (TYP.)
UNT TO SOUTH BRANCH FRENCH CREEK (EV)
TEMPORARY UPSLOPE DIVERSION BERM (TYP.)
TRENCH PLUGS (TYP.)
PERMANENT WATER BAR (TYP.)
TEMPORARY WATER BAR (TYP.)
ADDITIONAL TEMPORARY WORK SPACE FOR CONVENTIONAL BORE CROSSING (SEE TYPICAL LAYOUT ON SHEET ES-0.17)
14390+00
14384+00
14402+00
14404+00
14408+00
14414+00
14420+00
14426+00
14430+00
14436+00
14442+00
14448+00
14454+00
14460+00
14466+00
14472+00
14478+00
14484+00
14490+00
14496+00
14502+00
14508+00
14514+00
14520+00
14526+00
14532+00
14538+00
14544+00
14550+00
14556+00
14562+00
14568+00
14574+00
14580+00
14586+00
14592+00
14598+00
14604+00
14610+00
14616+00
14622+00
14628+00
14634+00
14640+00
14646+00
14652+00
14658+00
14664+00

SEE MATCHLINE 6.05
THIS SHEET

SEE MATCHLINE 6.05
THIS SHEET

SEE MATCHLINE 6.05
THIS SHEET

MATCHLINE ES-6.04

MATCHLINE ES-6.06

YODER ROAD

AASHTO #1 ROCK CONSTRUCTION ENTRANCE WITH WASH RACKS (TYP.)

AGGREGATE STOCKPILE (TYP.)

EXISTING TEMPORARY ACCESS ROAD TO BE MAINTAINED ON EXISTING GRADE (ID# PPP-AR-163)

WELL VEGETATED AREA

WOODED AREA

100-YEAR FEMA FLOODPLAIN (TYP.)

100-YEAR FLOODWAY (TYP.)

PEM WL-B14

PFO WL-B14

S-B14

SOUTH BRANCH FRENCH CREEK (EV)

PERMANENT WATER BAR (TYP.)

PEM WL-B13

RIPARIAN FOREST BUFFER

TRENCH PLUGS (TYP.)

TEMPORARY WATER BAR (TYP.)

TEMPORARY UPSLOPE DIVERSION BERM (TYP.)

EROSION CONTROL BLANKET (TYP.)

ORANGE CONSTRUCTION FENCE (TYP.)

TEMPORARY SLOPE PIPE (TYP.)

TEMPORARY EQUIPMENT CROSSING (TYP.)

PEM WL-B12

TEMPORARY TIMBER MATS (TYP.)

COMPOST FILTER SOCK (TYP.)

LIMIT OF DISTURBANCE

14406+00 14408+00 14410+00 14412+00 14420+00

NOTES:

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2. SEE ES-0.03 FOR STREAM & WETLAND CROSSING TABLES.
3. EROSION & SEDIMENT CONTROL BMP INSTALLATION TO BE ADJUSTED AS NEEDED TO ACCOMMODATE ACTUAL CONTOURS IDENTIFIED IN FIELD DURING VARIOUS PHASES OF THE PROJECT.

SCALE IN FEET 0 50 100

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REVISIONS

NO.	BY	DATE	REMARKS

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ROBERT F. SIMCIK ENGINEER PE-050435-E

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 6

1-20" & 1-16" WELDED STEEL NATURAL GAS PIPELINES

CHESTER COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 5 OF 74

DATE:	2/4/17
PROJECT NO.:	112C05958
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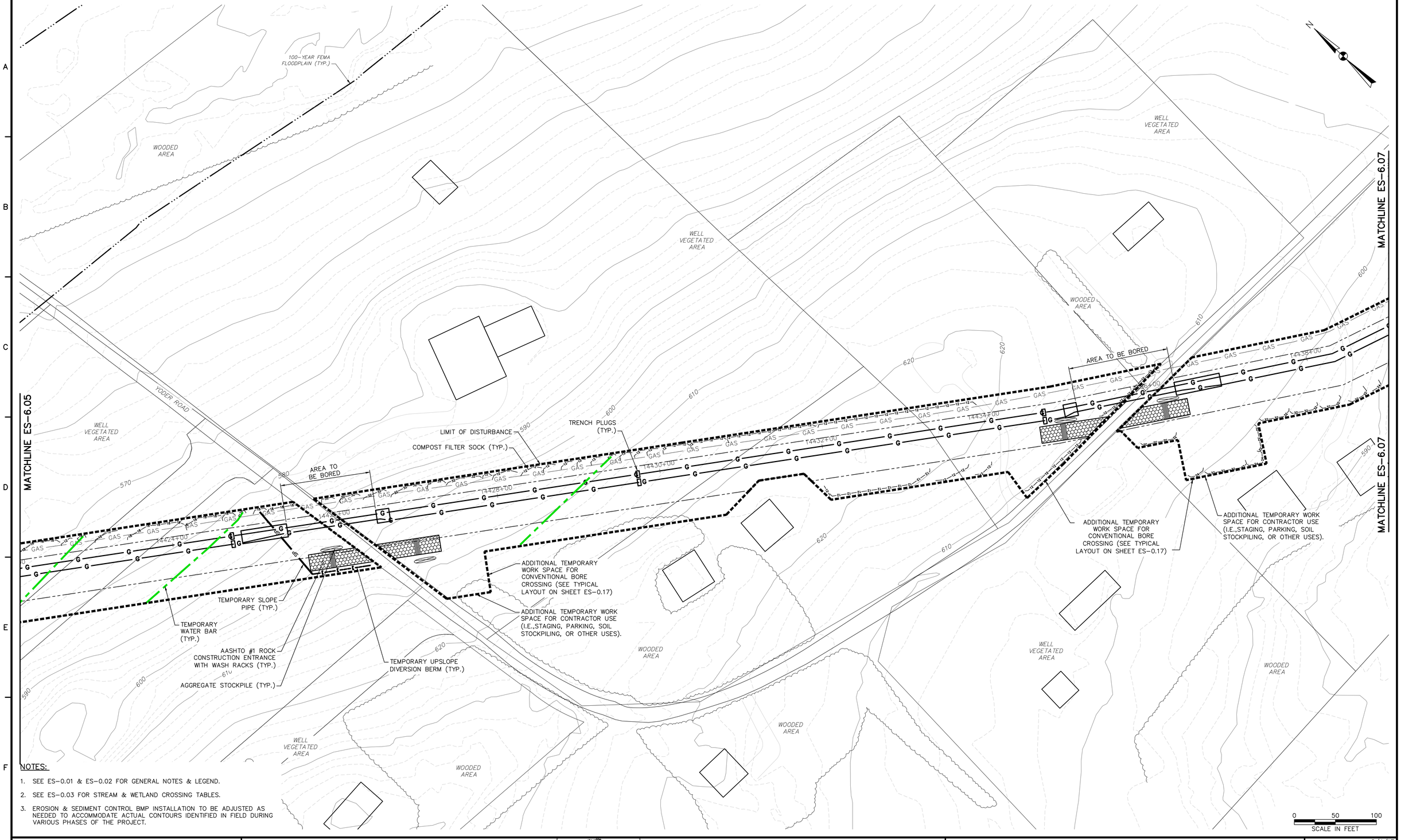

NOTES:

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REVISIONS

NO.	BY	DATE	REMARKS

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ENGINEER ROBERT F. SIMCIK PE-090435-E

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 6

1-20" & 1-16" WELDED STEEL NATURAL GAS PIPELINES

CHESTER COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 6 OF 74

DATE:	2/4/17
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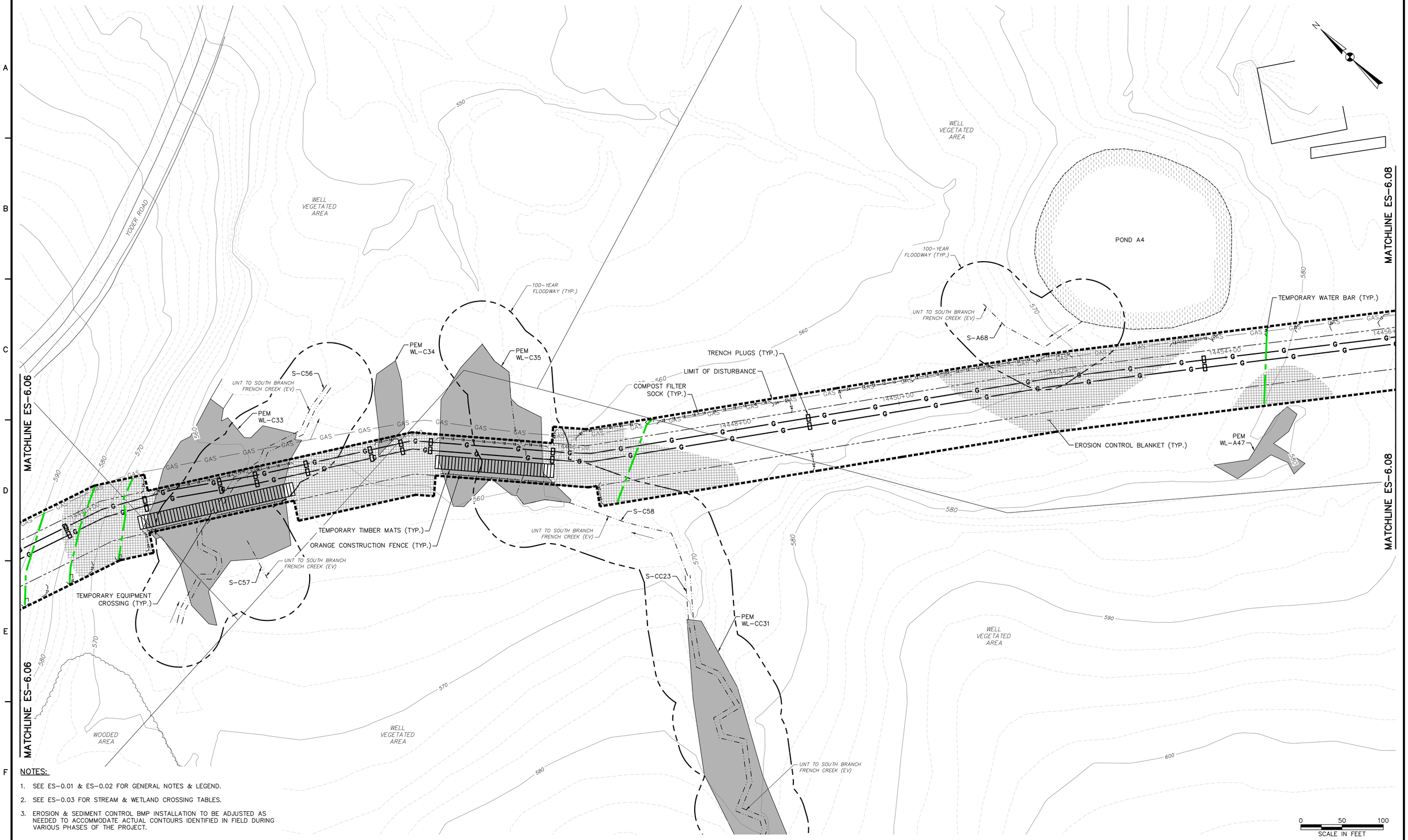

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COMMONWEALTH OF PENNSYLVANIA – REGISTERED PROFESSIONAL ENGINEER – ROBERT F. SIMCIK – PE 090408-E

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 6

1-20" & 1-16" WELDED STEEL NATURAL GAS PIPELINES

CHESTER COUNTY CONSERVATION DISTRICT
EROSION & SEDIMENT CONTROL &
SITE RESTORATION PLAN
SHEET 7 OF 74

DATE:	2/4/17
PROJECT NO.:	112C05958
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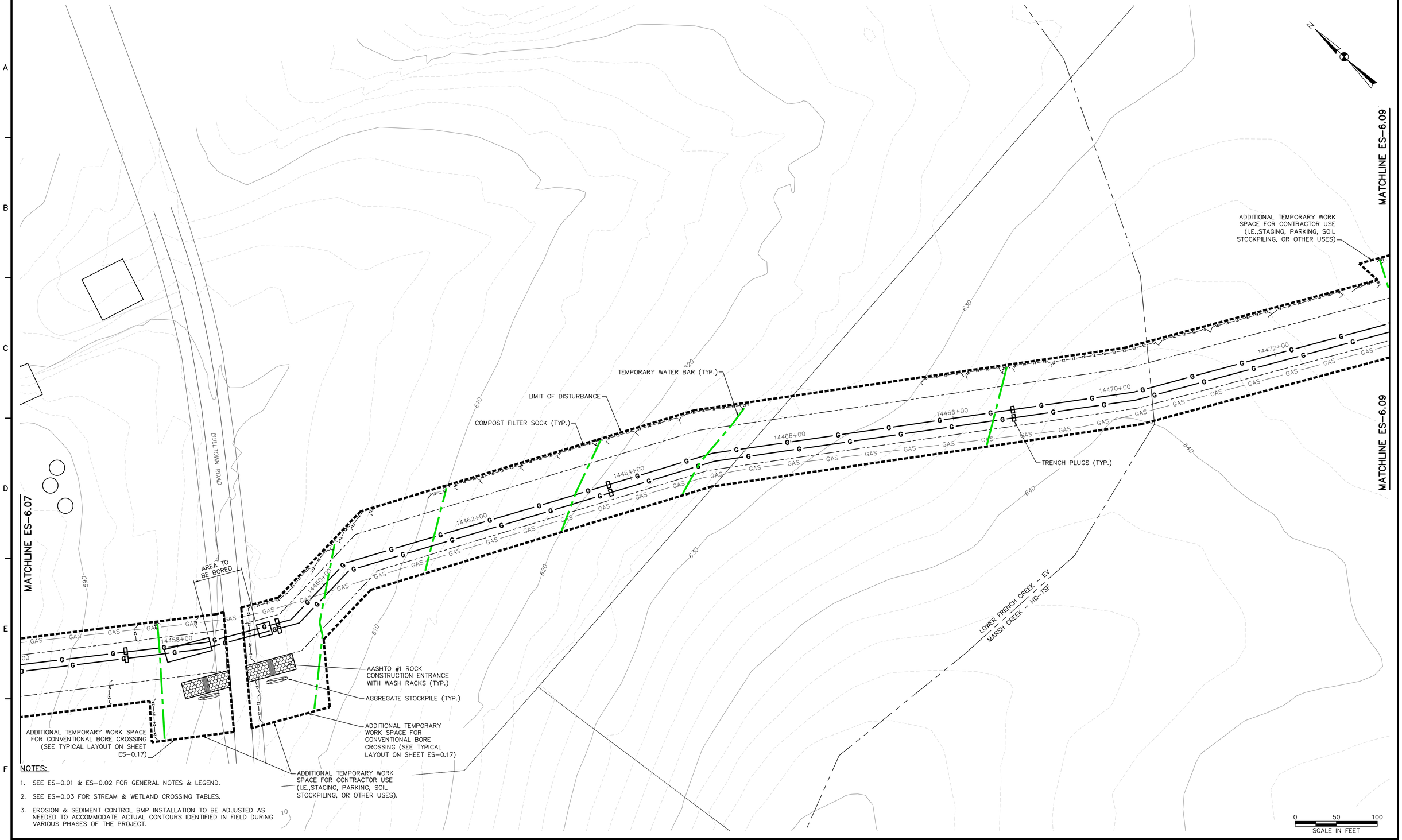

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NO.	BY	DATE	REMARKS

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ENGINEER ROBERT F. SIMCIK PE-084585-E

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 6

1-20" & 1-16" WELDED STEEL NATURAL GAS PIPELINES

CHESTER COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 8 OF 74

DATE:	2/4/17
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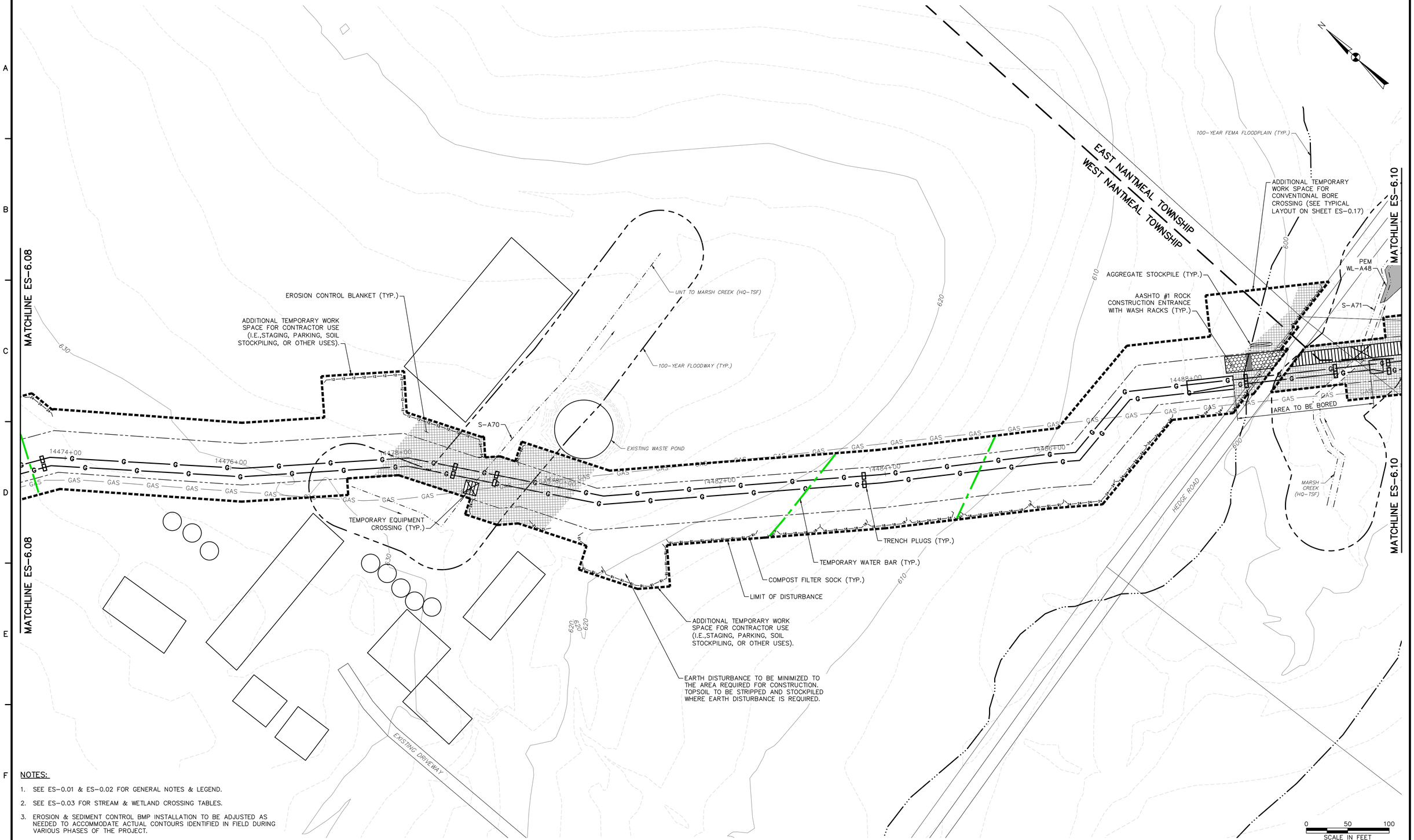

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NO.	BY	DATE	REMARKS

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ENGINEER ROBERT F. SIMCIK PE-090428-E

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 6

1-20" & 1-16" WELDED STEEL NATURAL GAS PIPELINES

CHESTER COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 9 OF 74

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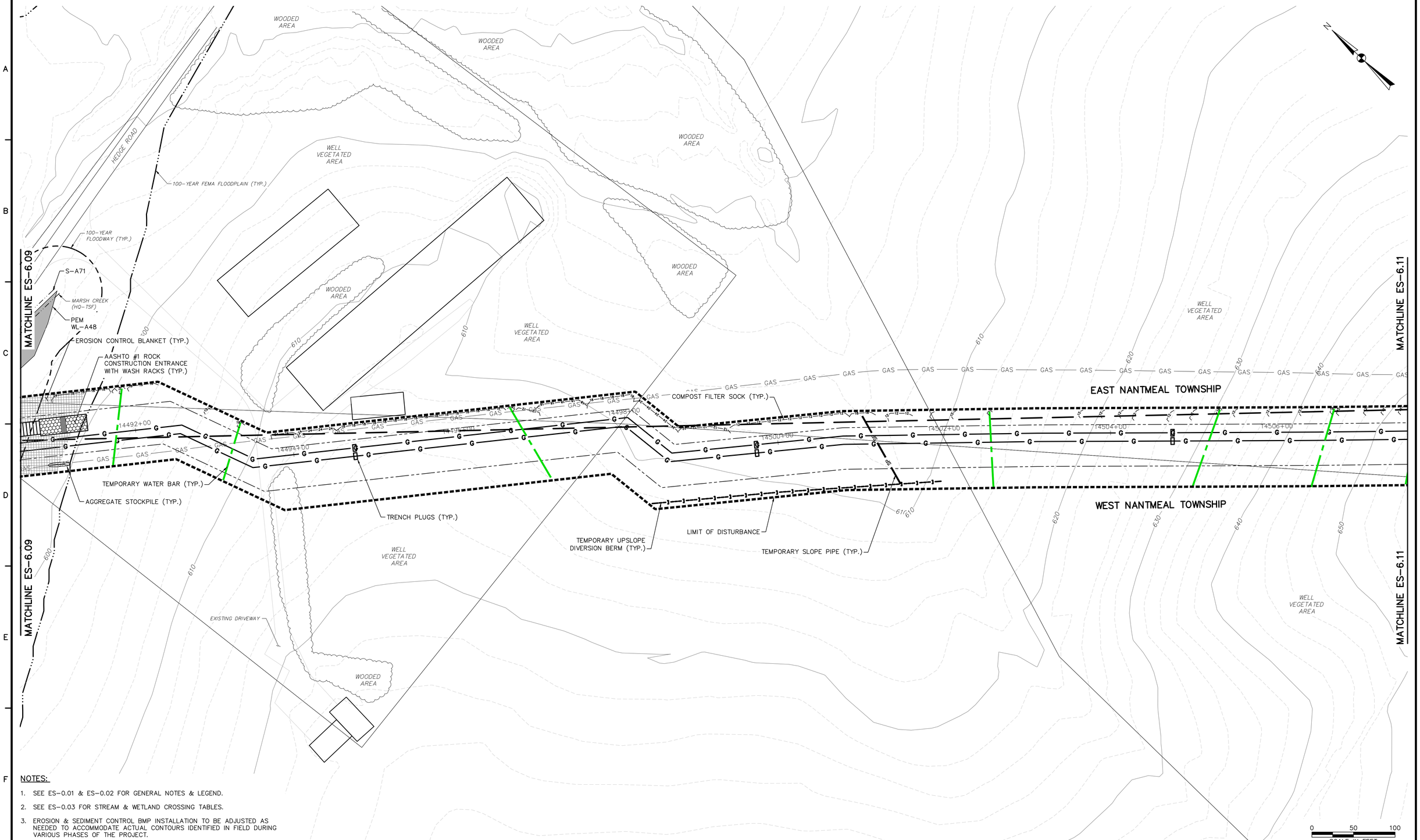

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REVISIONS

NO.	BY	DATE	REMARKS

COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL ENGINEER — ROBERT F. SIMCIK — PE-084635-E

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 6

1-20" & 1-16" WELDED STEEL NATURAL GAS PIPELINES

CHESTER COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 10 OF 74

DATE:	2/4/17
PROJECT NO.:	112C05958
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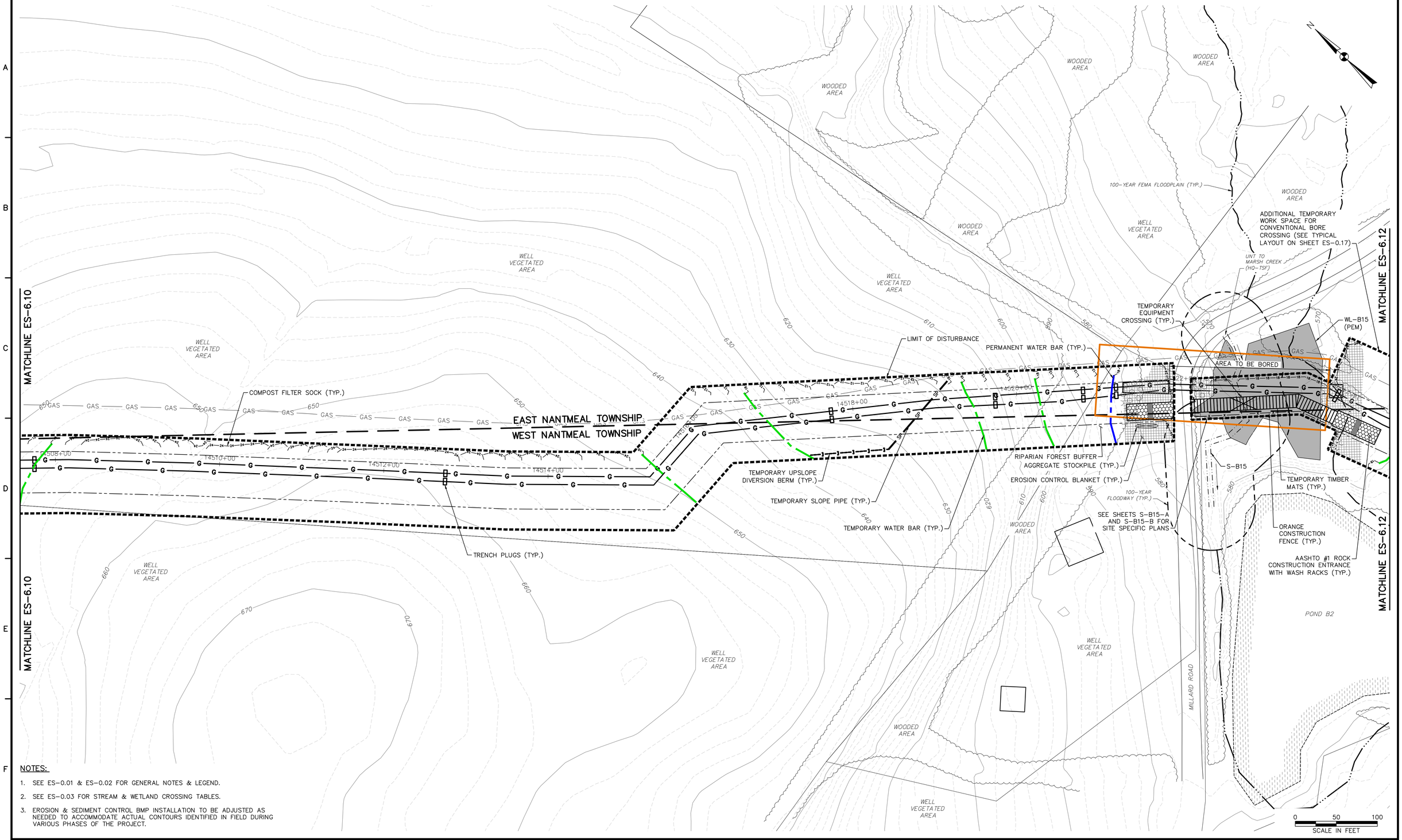

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REVISIONS

NO.	BY	DATE	REMARKS

COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL — ROBERT F. SIMCIK — ENGINEER — PE-050435-E

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 6

1-20" & 1-16" WELDED STEEL NATURAL GAS PIPELINES

CHESTER COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 11 OF 74

DATE:	2/4/17
PROJECT NO.:	112C05958
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MATCHLINE ES-6.11

EAST NANTMEAL TOWNSHIP

WEST NANTMEAL TOWNSHIP

MATCHLINE ES-6.11

MATCHLINE ES-6.13

WELL VEGETATED AREA

WOODED AREA

POND B2

TEMPORARY WATER BAR (TYP.)

TRENCH PLUGS (TYP.)

COMPOST FILTER SOCK (TYP.)

LIMIT OF DISTURBANCE

PERMANENT WATER BAR (TYP.)

LITTLE CONESTOGA ROAD

14540+00

14542+00

0 50 100

SCALE IN FEET

NOTES:

1. SEE ES-0.01 & ES-0.02 FOR GENERAL NOTES & LEGEND.
2. SEE ES-0.03 FOR STREAM & WETLAND CROSSING TABLES.
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REVISIONS

NO.	BY	DATE	REMARKS

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
ROBERT F. SIMCIK
ENGINEER
PE-060435-E

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 6

1-20" & 1-16" WELDED STEEL NATURAL GAS PIPELINES

CHESTER COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 12 OF 74

DATE:	2/4/17
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EAST NANTMEAL TOWNSHIP

WEST NANTMEAL TOWNSHIP

MATCHLINE ES-6.12

MATCHLINE ES-6.14

MARSH CREEK - HQ-TSF

UPPER EAST BRANCH BRANDYWINE CREEK - HQ-TSF

LITTLE CONESTOGA ROAD

WELL VEGETATED AREA

COMPOST FILTER SOCK (TYP.)

ADDITIONAL TEMPORARY WORK SPACE FOR CONVENTIONAL BORE CROSSING (SEE TYPICAL LAYOUT ON SHEET ES-0.17)

AREA TO BE BORED

AGGREGATE STOCKPILE (TYP.)

AASHTO #1 ROCK CONSTRUCTION ENTRANCE WITH WASH RACKS (TYP.)

TEMPORARY WATER BAR (TYP.)

ADDITIONAL TEMPORARY WORK SPACE FOR CONTRACTOR USE (I.E.,STAGING, PARKING, SOIL STOCKPILING, OR OTHER USES).

TEMPORARY SLOPE PIPE (TYP.)

TEMPORARY UPSLOPE DIVERSION BERM (TYP.)

TRENCH PLUGS (TYP.)

LIMIT OF DISTURBANCE

NOTES:

1. SEE ES-0.01 & ES-0.02 FOR GENERAL NOTES & LEGEND.
2. SEE ES-0.03 FOR STREAM & WETLAND CROSSING TABLES.
3. EROSION & SEDIMENT CONTROL BMP INSTALLATION TO BE ADJUSTED AS NEEDED TO ACCOMMODATE ACTUAL CONTOURS IDENTIFIED IN FIELD DURING VARIOUS PHASES OF THE PROJECT.

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REVISIONS

NO.	BY	DATE	REMARKS

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ROBERT F. SIMCIK ENGINEER PE-084814

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 6

1-20" & 1-16" WELDED STEEL NATURAL GAS PIPELINES

CHESTER COUNTY CONSERVATION DISTRICT
EROSION & SEDIMENT CONTROL &
SITE RESTORATION PLAN
SHEET 13 OF 74

DATE:	2/4/17
PROJECT NO.:	112C05958
DESIGNED BY:	JB
DRAWN BY:	BH
CHECKED BY:	RS

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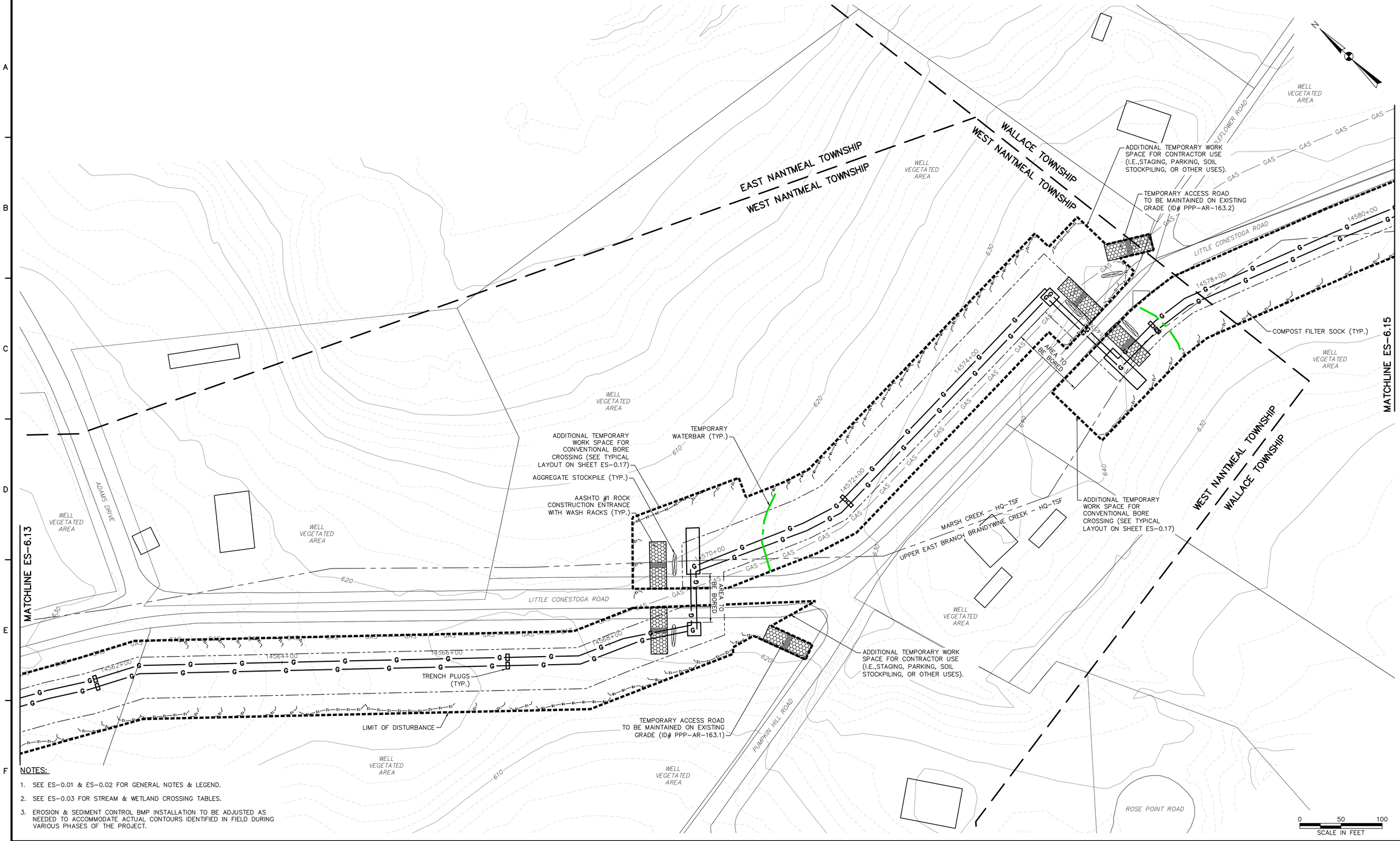

NOTES:

1. SEE ES-0.01 & ES-0.02 FOR GENERAL NOTES & LEGEND.
2. SEE ES-0.03 FOR STREAM & WETLAND CROSSING TABLES.
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REVISIONS

NO.	BY	DATE	REMARKS

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ENGINEER ROBERT F. SIMCIK PE-090408-A

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 6

1-20" & 1-16" WELDED STEEL NATURAL GAS PIPELINES

CHESTER COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 14 OF 74

DATE:	2/4/17
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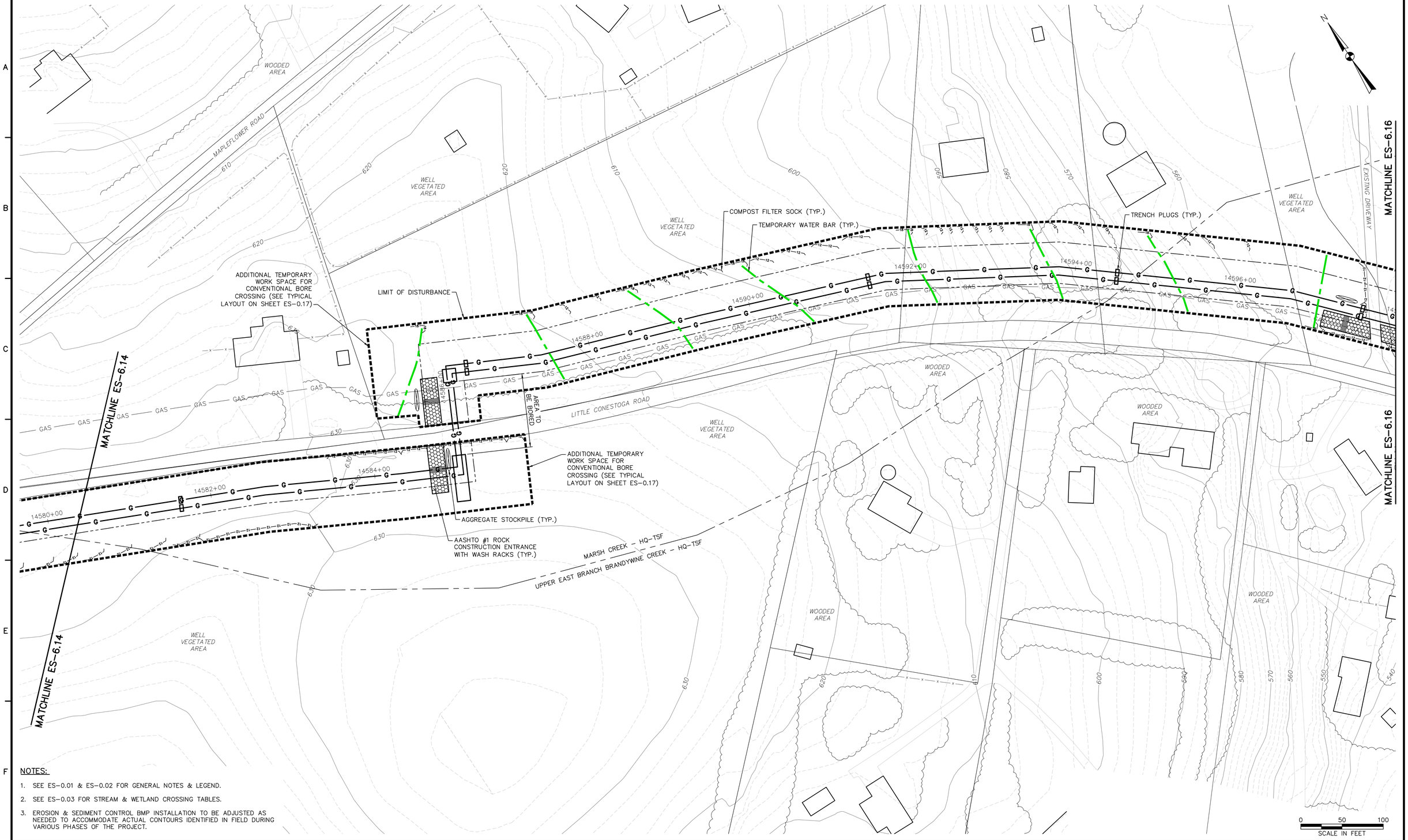

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COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL ENGINEER — ROBERT F. SIMCIK — PE-084626-E

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 6

1-20" & 1-16" WELDED STEEL NATURAL GAS PIPELINES

CHESTER COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 15 OF 74

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COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ENGINEER ROBERT F. SIMCIK PE-084408-E

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 6

1-20" & 1-16" WELDED STEEL NATURAL GAS PIPELINES

CHESTER COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 16 OF 74

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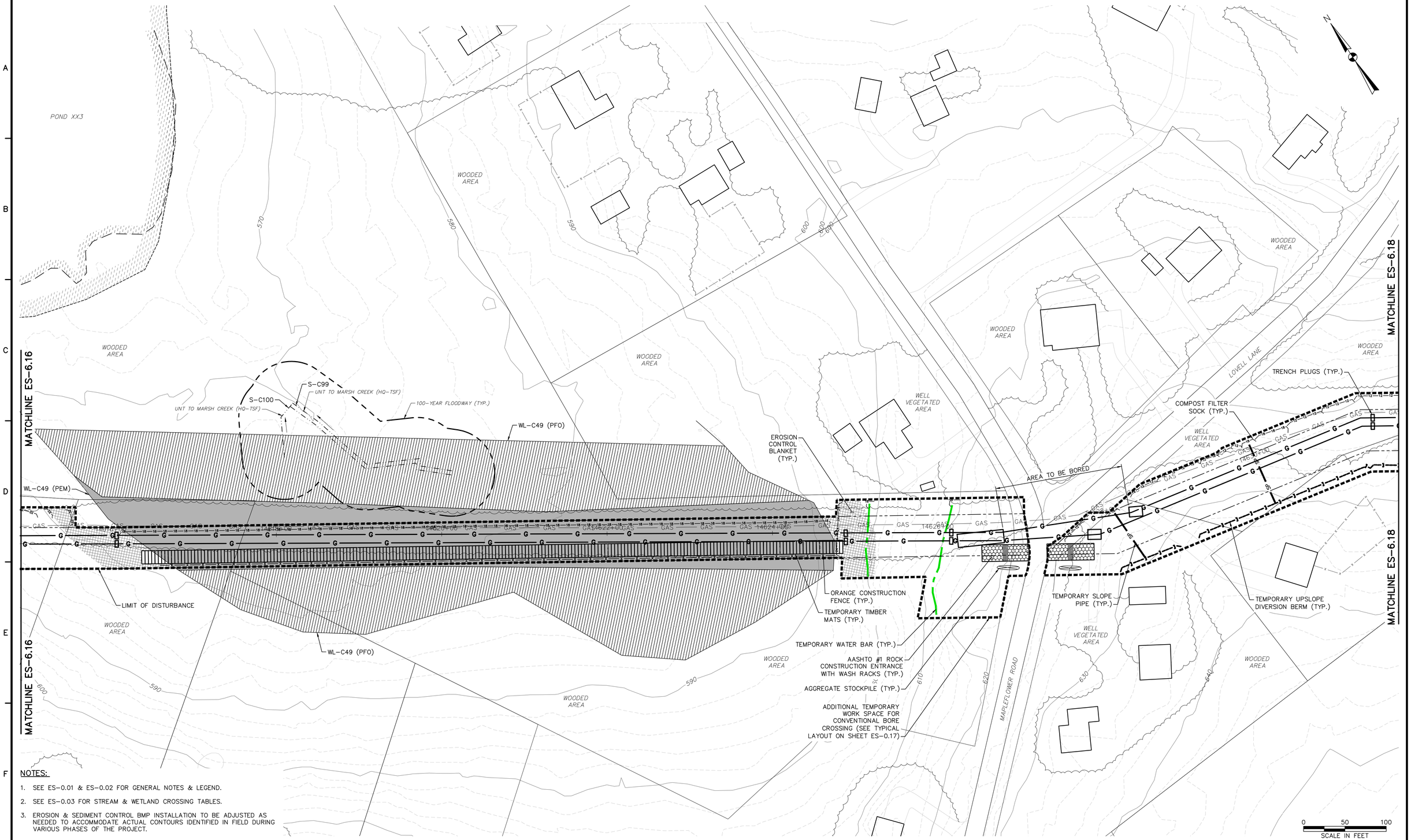

NOTES:

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NO.	BY	DATE	REMARKS

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ENGINEER ROBERT F. SIMCIK PE-060435-E

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 6

1-20" & 1-16" WELDED STEEL NATURAL GAS PIPELINES

CHESTER COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 17 OF 74

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LOVELL LANE

WELL VEGETATED AREA

WOODED AREA

COMPOST FILTER SOCK (TYP.)

TRENCH PLUGS (TYP.)

PERMANENT WATER BAR (TYP.)

TEMPORARY WATER BAR (TYP.)

LIMIT OF DISTURBANCE

TEMPORARY UPSLOPE DIVERSION BERM (TYP.)

TEMPORARY SLOPE PIPE (TYP.)

N

0 50 100

SCALE IN FEET

NOTES:

1. SEE ES-0.01 & ES-0.02 FOR GENERAL NOTES & LEGEND.
2. SEE ES-0.03 FOR STREAM & WETLAND CROSSING TABLES.
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COMMONWEALTH OF PENNSYLVANIA
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ENGINEER PE-090435-E

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 6

1-20" & 1-16" WELDED STEEL NATURAL GAS PIPELINES

CHESTER COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 18 OF 74

DATE:	2/4/17
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MATCHLINE ES-6.20

WOODED AREA

WELL VEGETATED AREA

EXISTING TRAIL

EXISTING TEMPORARY ACCESS ROAD TO BE MAINTAINED ON EXISTING GRADE (ID# PPP-AR-163.5)

WL-KP1 (PFO)

WL-KP1 (PEM)

WL-B19 (PFO)

WL-B19 (PEM)

PA TURNPIKE

EXISTING ROAD

S-B20

UNT TO MARSH CREEK (HQ-TSF)

WL-B19 (PFO)

WL-B19 (PEM)

AREA TO BE BORED

FAIRVIEW ROAD EGETATED GEOWEB BLOCK VALVE

TEMPORARY TIMBER MATS (TYP.)

PERMANENT ACCESS ROAD (ID# PPP-AR-164)

AASHTO #1 ROCK CONSTRUCTION ENTRANCE WITH WASH RACKS (TYP.)

EROSION CONTROL BLANKET (TYP.)

AGGREGATE STOCKPILE (TYP.)

FAIRVIEW ROAD

TRENCH PLUGS (TYP.)

LIMIT OF DISTURBANCE

PERMANENT WATER BAR (TYP.)

TEMPORARY WATER BAR (TYP.)

COMPOST FILTER SOCK (TYP.)

WL-B20 (PEM)

EXISTING ACCESS ROAD

WL-B19 (PFO)

UNT TO MARSH CREEK (HQ-TSF)

S-B18

S-B19

100-YEAR FLOODWAY (TYP.)

TEMPORARY EQUIPMENT CROSSING (TYP.)

SEE SHEETS S-B18-A AND S-B18-B FOR SITE SPECIFIC PLANS

UNT TO MARSH CREEK (HQ-TSF)

GAS

G

T4650+00

T4652+00

T4654+00

T4656+00

T4658+00

T4660+00

T4662+00

T4664+00

T4666+00

590 580 570 560 550 540 530 520 510

0 50 100

SCALE IN FEET

NOTES:

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COMMONWEALTH OF PENNSYLVANIA
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ROBERT F. SIMCIK
ENGINEER PE-090408-E

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 6

1-20" & 1-16" WELDED STEEL NATURAL GAS PIPELINES

CHESTER COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 19 OF 74

DATE:	2/4/17
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NOTES:

1. SEE ES-0.01 & ES-0.02 FOR GENERAL NOTES & LEGEND.
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REVISIONS

NO.	BY	DATE	REMARKS

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ENGINEER ROBERT F. SIMCIK PE-090435-E

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 6

1-20" & 1-16" WELDED STEEL NATURAL GAS PIPELINES

CHESTER COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 20 OF 74

DATE:	2/4/17
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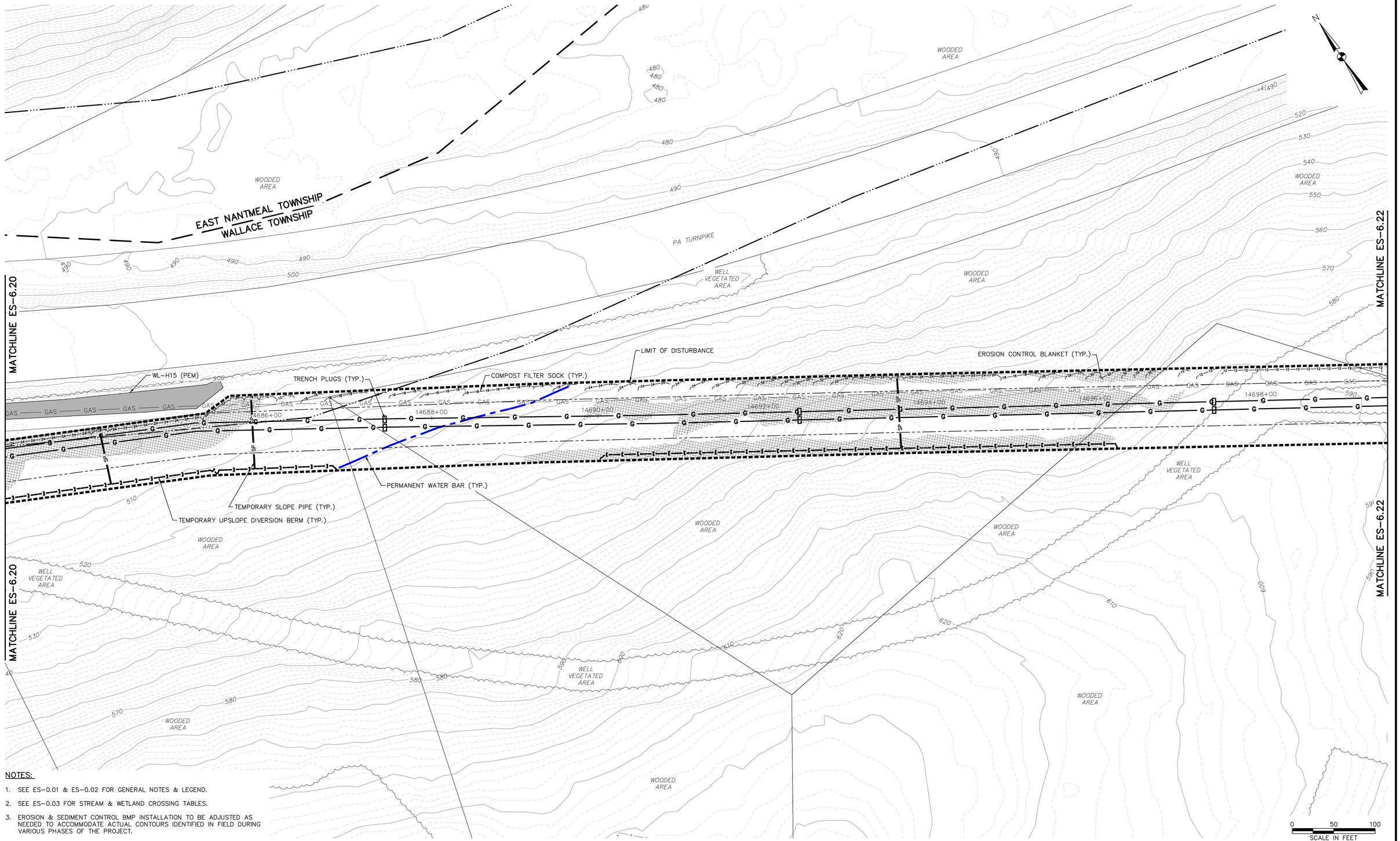

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COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ROBERT F. SIMCIK ENGINEER PE-060435-E

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 6

1-20" & 1-16" WELDED STEEL NATURAL GAS PIPELINES

CHESTER COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 21 OF 74

DATE:	2/4/17
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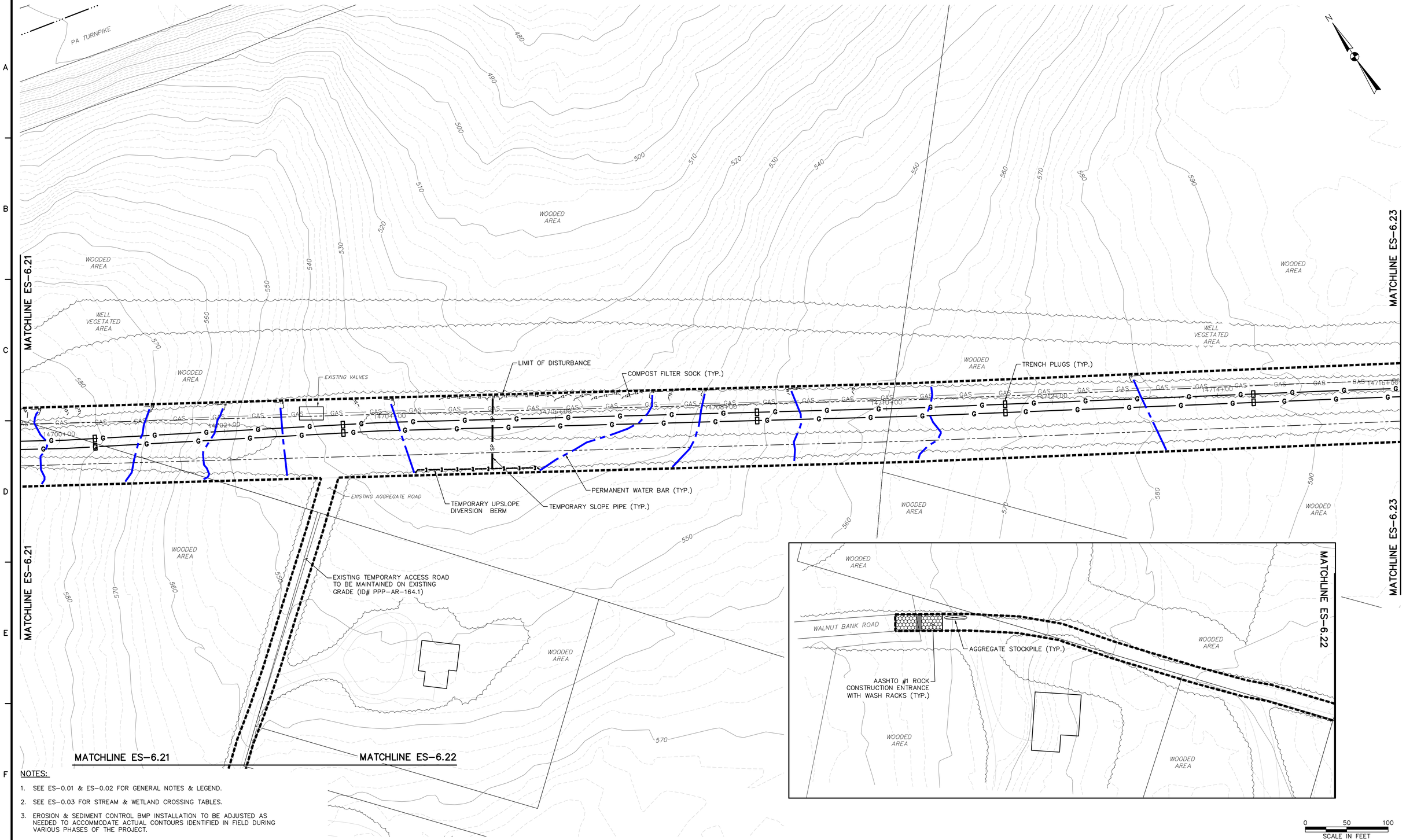

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COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL — ROBERT F. SIMCIK — ENGINEER PE-084834-E

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 6

1-20" & 1-16" WELDED STEEL NATURAL GAS PIPELINES

CHESTER COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 22 OF 74

DATE:	2/4/17
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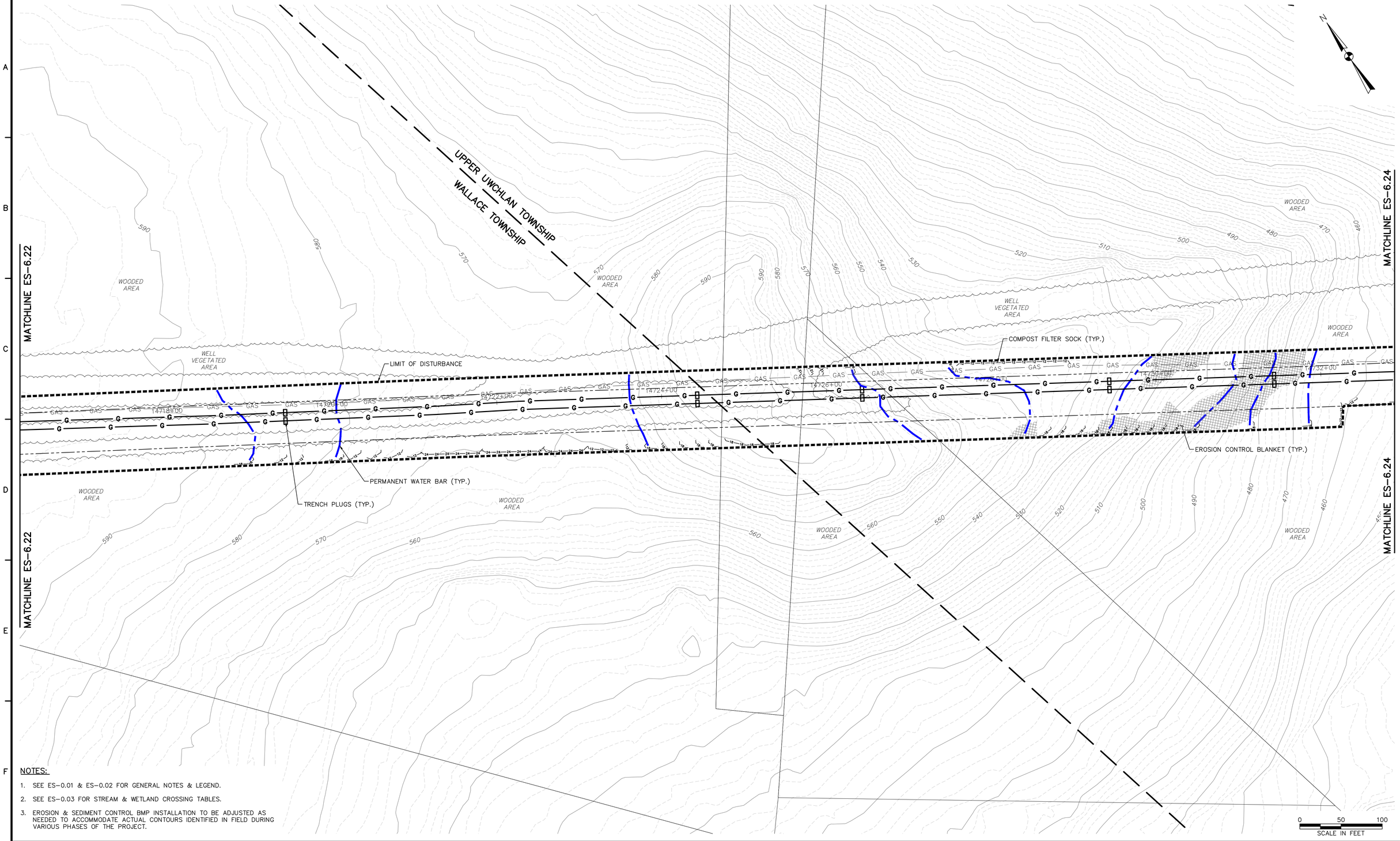

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COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL ENGINEER
ROBERT F. SIMCIK
ENGINEER PE-090435-E

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 6

1-20" & 1-16" WELDED STEEL NATURAL GAS PIPELINES

CHESTER COUNTY CONSERVATION DISTRICT
EROSION & SEDIMENT CONTROL &
SITE RESTORATION PLAN
SHEET 23 OF 74

DATE:	2/4/17
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100-YEAR FEMA FLOODPLAIN (TYP.)

100-YEAR FLOODWAY (TYP.)

MARSH CREEK (HQ-TSF)

UNT TO MARSH CREEK (HQ-TSF)

UNT TO MARSH CREEK (HQ-TSF)

UNT TO MARSH CREEK (HQ-TSF)

S-H52

S-Q200

S-Q81

S-H49

WL-Q75 (PFO)

WL-H42 (PFO)

WL-H42 (PEM)

WL-H42 (PFO)

WL-H42 (PFO)

WL-H42 (PEM)

WL-H43 (PFO)

WL-H43 (PFO)

ADDITIONAL TEMPORARY WORK SPACE FOR CONVENTIONAL BORE CROSSING (SEE TYPICAL LAYOUT ON SHEET ES-0.17)

ADDITIONAL TEMPORARY WORK SPACE FOR CONTRACTOR USE (I.E., STAGINGPARKING, SOIL STOCKPILING, OR OTHER USES).

EROSION CONTROL BLANKET (TYP.)

TRENCH PLUGS (TYP.)

PERMANENT WATER BAR (TYP.)

RIPARIAN FOREST BUFFER

TEMPORARY EQUIPMENT CROSSING (TYP.)

SEE SHEETS S-H52-A AND S-H52-B FOR SITE SPECIFIC PLANS

AREA TO BE BORED

COMPOST FILTER SOCK (TYP.)

PULL BACK AREA

EARTH DISTURBANCE TO BE MINIMIZED TO THE AREA REQUIRED FOR CONSTRUCTION. TOPSOIL TO BE STRIPPED AND STOCKPILED WHERE EARTH DISTURBANCE IS REQUIRED.

INFILTRATION BERM (TYP.)

AASHTO #1 ROCK CONSTRUCTION ENTRANCE WITH WASH RACKS(TYP.)

TEMPORARY SLOPE PIPE (TYP.)

AGGREGATE STOCKPILE (TYP.)

TEMPORARY GRADING TO ACCOMMODATE HDD ACTIVITIES

HDD STAGING AREA (SEE TYPICAL LAYOUT ON SHEET ES-0.16)

HDD STAGING AREA

LIMIT OF DISTURBANCE

EARTH DISTURBANCE TO BE MINIMIZED TO THE AREA REQUIRED FOR CONSTRUCTION. TOPSOIL TO BE STRIPPED AND STOCKPILED WHERE EARTH DISTURBANCE IS REQUIRED.

PERMANENT WATER BAR (TYP.)

AREA TO BE BORED

GREEN RIDGE ROAD

PA TURNPIKE

WELL VEGETATED AREA

WOODED AREA

NOTES:

1. SEE ES-0.01 & ES-0.02 FOR GENERAL NOTES & LEGEND.
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REVISIONS

NO.	BY	DATE	REMARKS

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ROBERT F. SIMCIK ENGINEER PE-060435-E

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 6

1-20" & 1-16" WELDED STEEL NATURAL GAS PIPELINES

CHESTER COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 24 OF 74

DATE:	2/4/17
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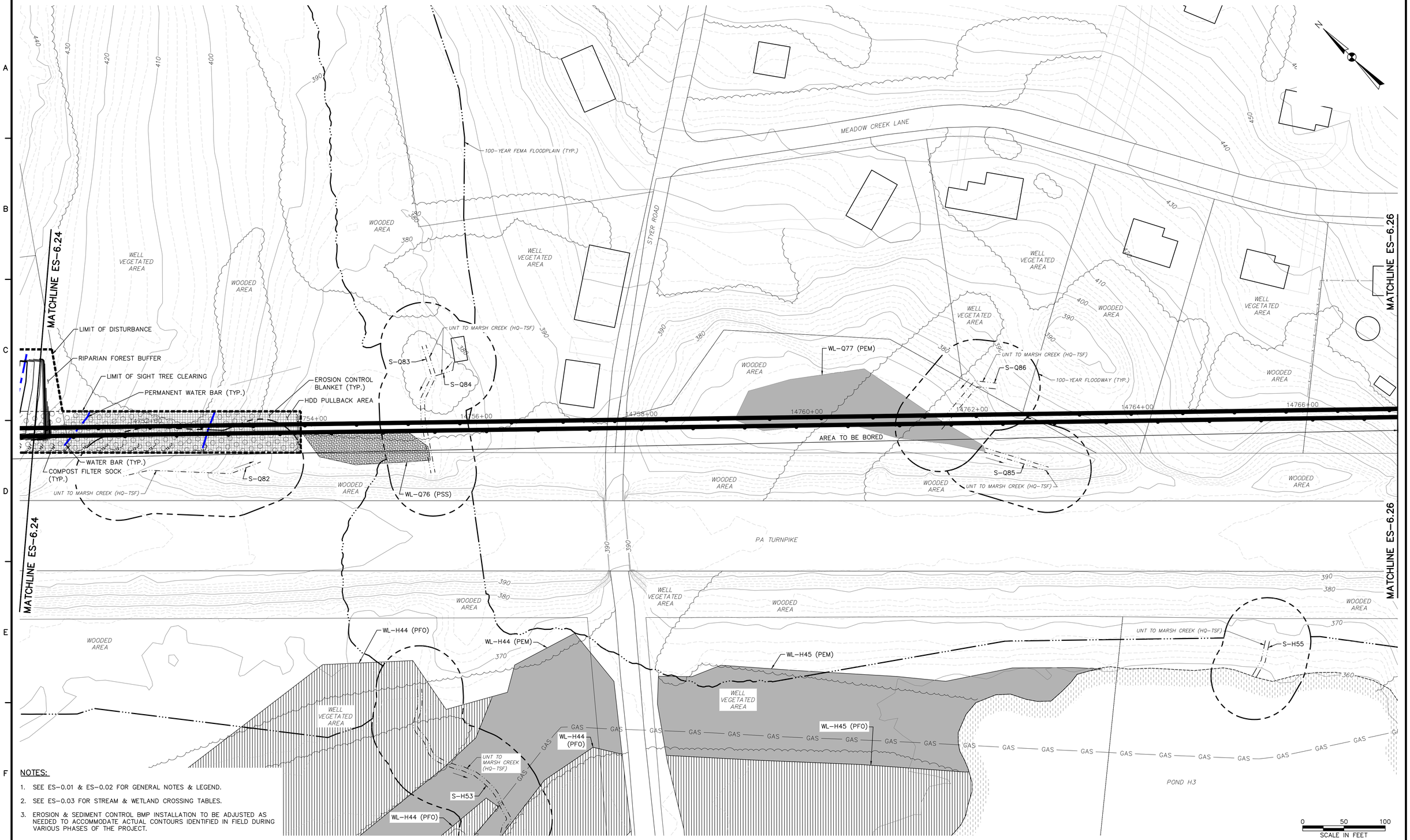

NOTES:

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REVISIONS

NO.	BY	DATE	REMARKS

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ROBERT F. SIMCIK ENGINEER PE-056435-E

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 6

1-20" & 1-16" WELDED STEEL NATURAL GAS PIPELINES

CHESTER COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 25 OF 74

DATE:	2/4/17
PROJECT NO.:	112C05958
DESIGNED BY:	JB
DRAWN BY:	BH
CHECKED BY:	RS

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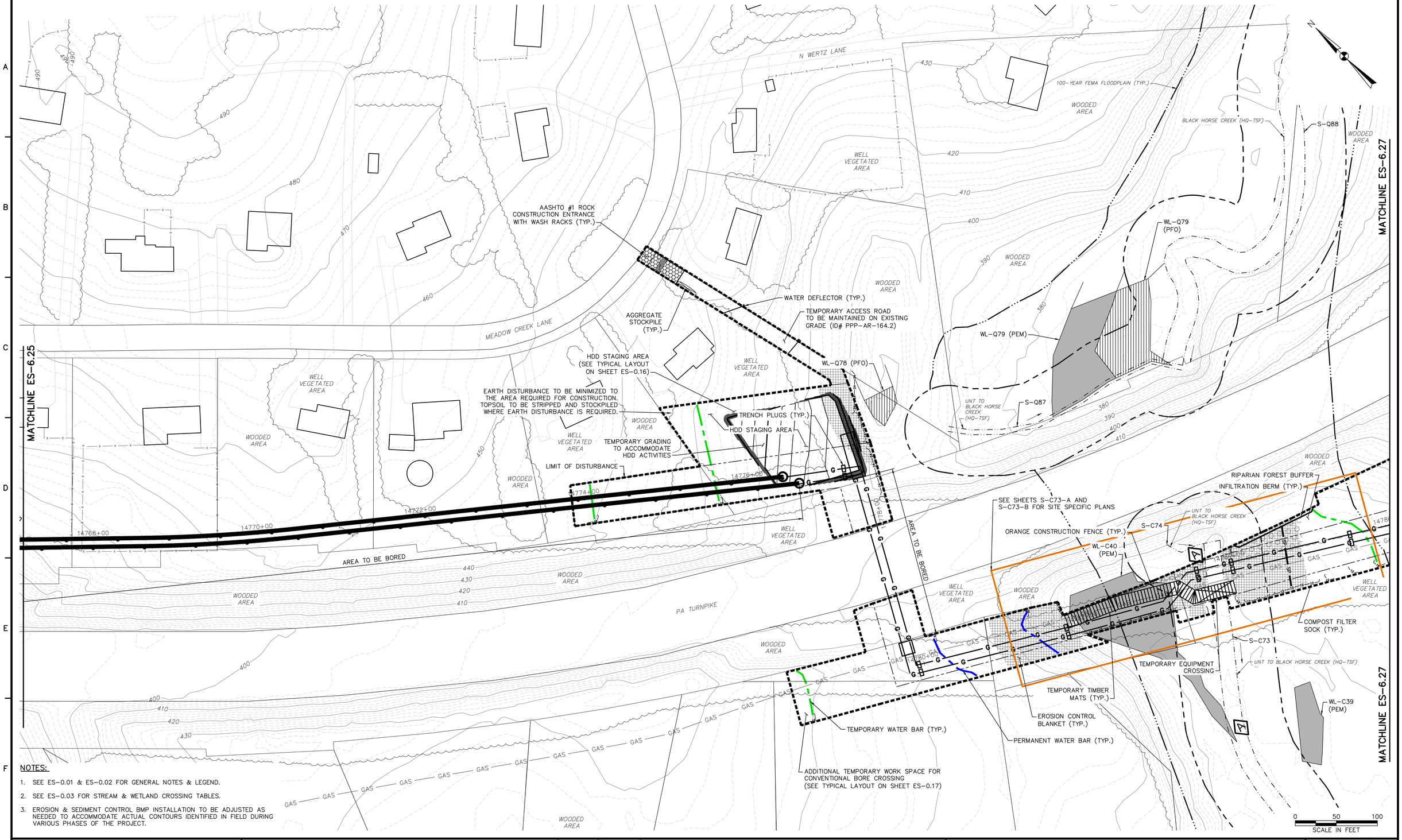

NOTES:

1. SEE ES-0.01 & ES-0.02 FOR GENERAL NOTES & LEGEND.
2. SEE ES-0.03 FOR STREAM & WETLAND CROSSING TABLES.
3. EROSION & SEDIMENT CONTROL BMP INSTALLATION TO BE ADJUSTED AS NEEDED TO ACCOMMODATE ACTUAL CONTOURS IDENTIFIED IN FIELD DURING VARIOUS PHASES OF THE PROJECT.

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COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ENGINEER ROBERT F. SIMCIK PE-090435-E

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 6

1-20" & 1-16" WELDED STEEL NATURAL GAS PIPELINES

CHESTER COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 26 OF 74

DATE:	2/4/17
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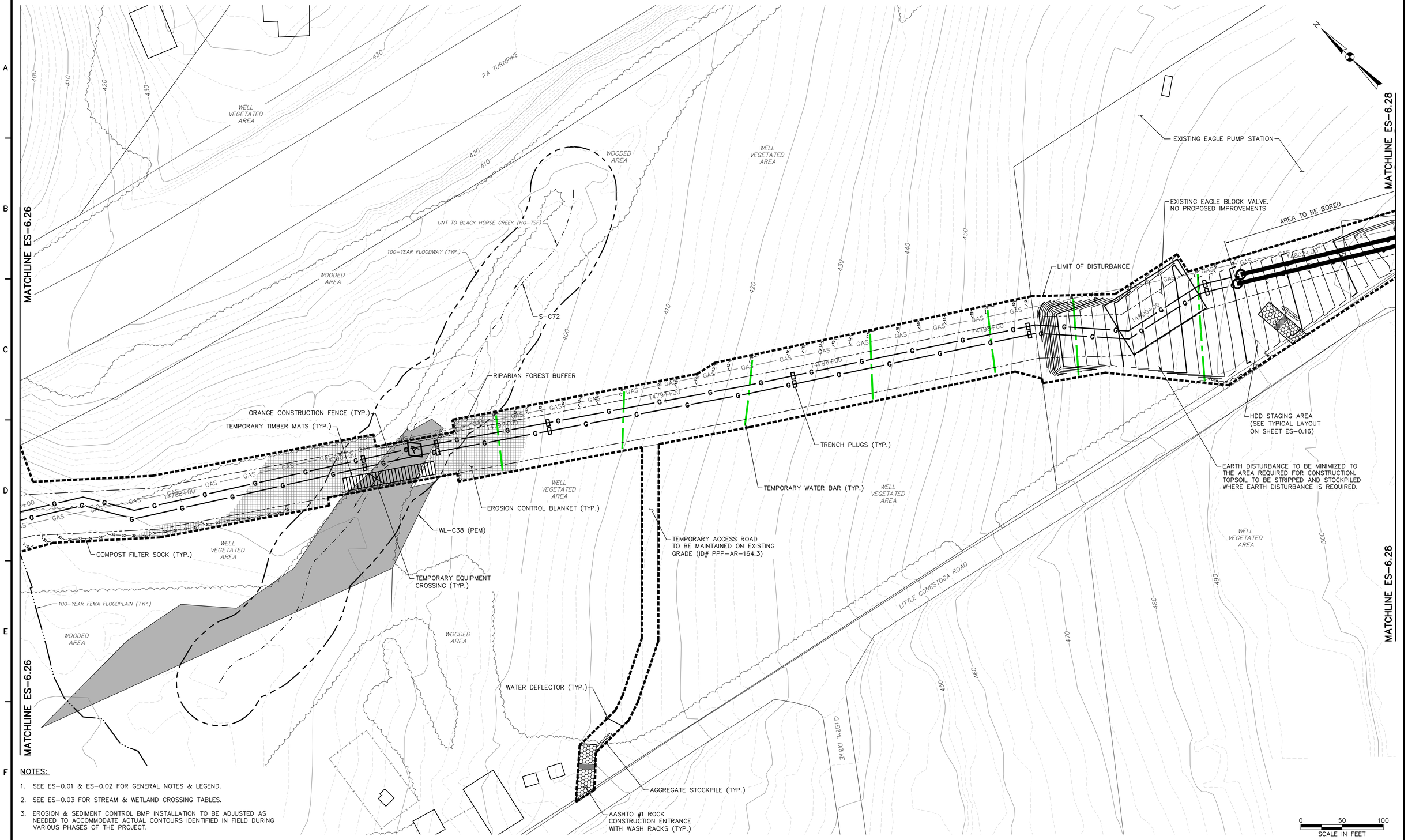

NOTES:

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COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ENGINEER ROBERT F. SIMCIK PE-060435-E

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 6

1-20" & 1-16" WELDED STEEL NATURAL GAS PIPELINES

CHESTER COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 27 OF 74

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NOTES:

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COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL ENGINEER — ROBERT F. SIMCIK — PE-084426-E

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT
CONSTRUCTION SPREAD 6

1–20" & 1–16" WELDED STEEL NATURAL GAS PIPELINES

CHESTER COUNTY CONSERVATION DISTRICT
EROSION & SEDIMENT CONTROL &
SITE RESTORATION PLAN
SHEET 28 OF 74

DATE:	2/4/17
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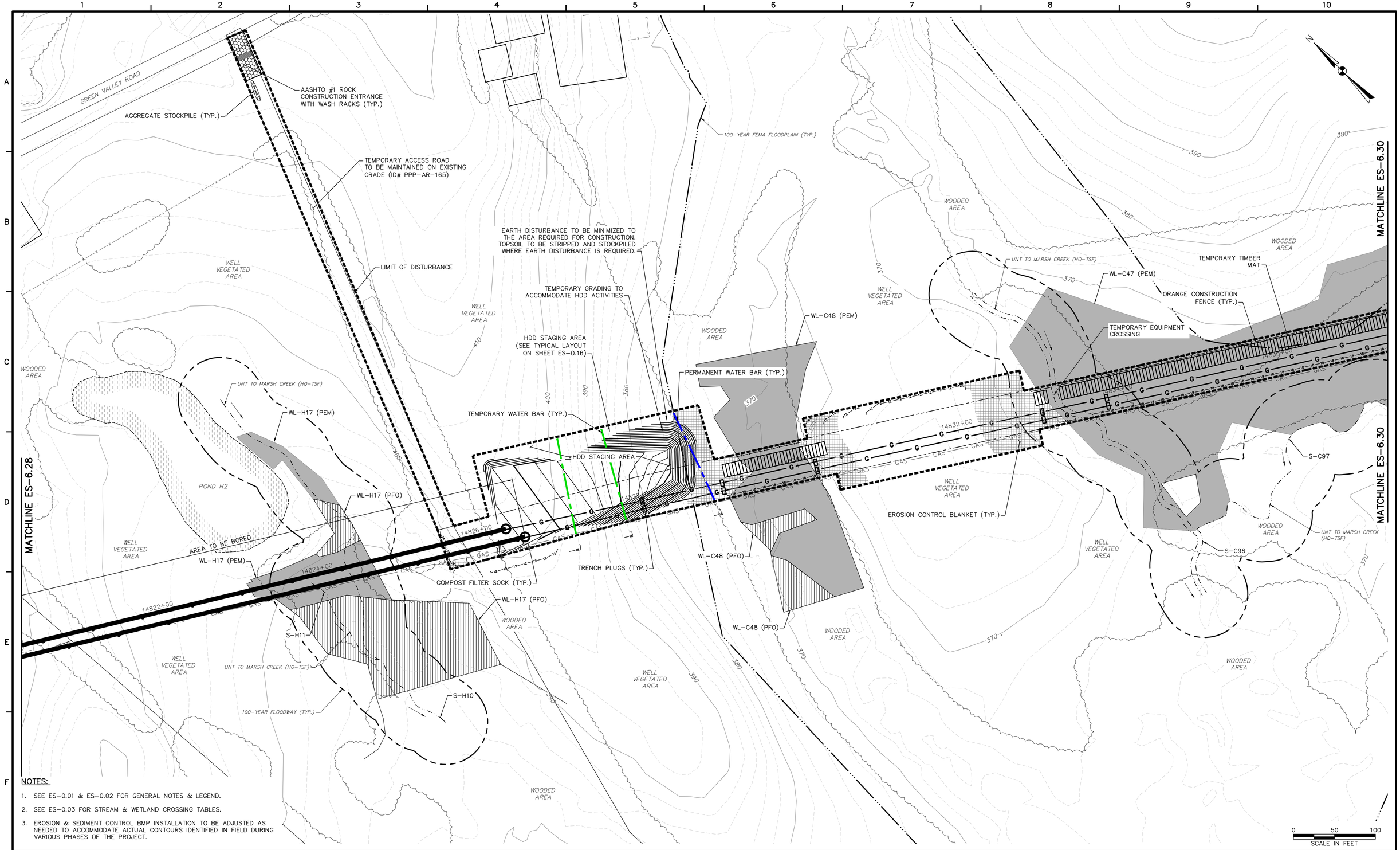

NOTES:

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COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL ENGINEER — ROBERT F. SIMCIK — PE-084408-A

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 6

1-20" & 1-16" WELDED STEEL NATURAL GAS PIPELINES

CHESTER COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 29 OF 74

DATE:	2/4/17
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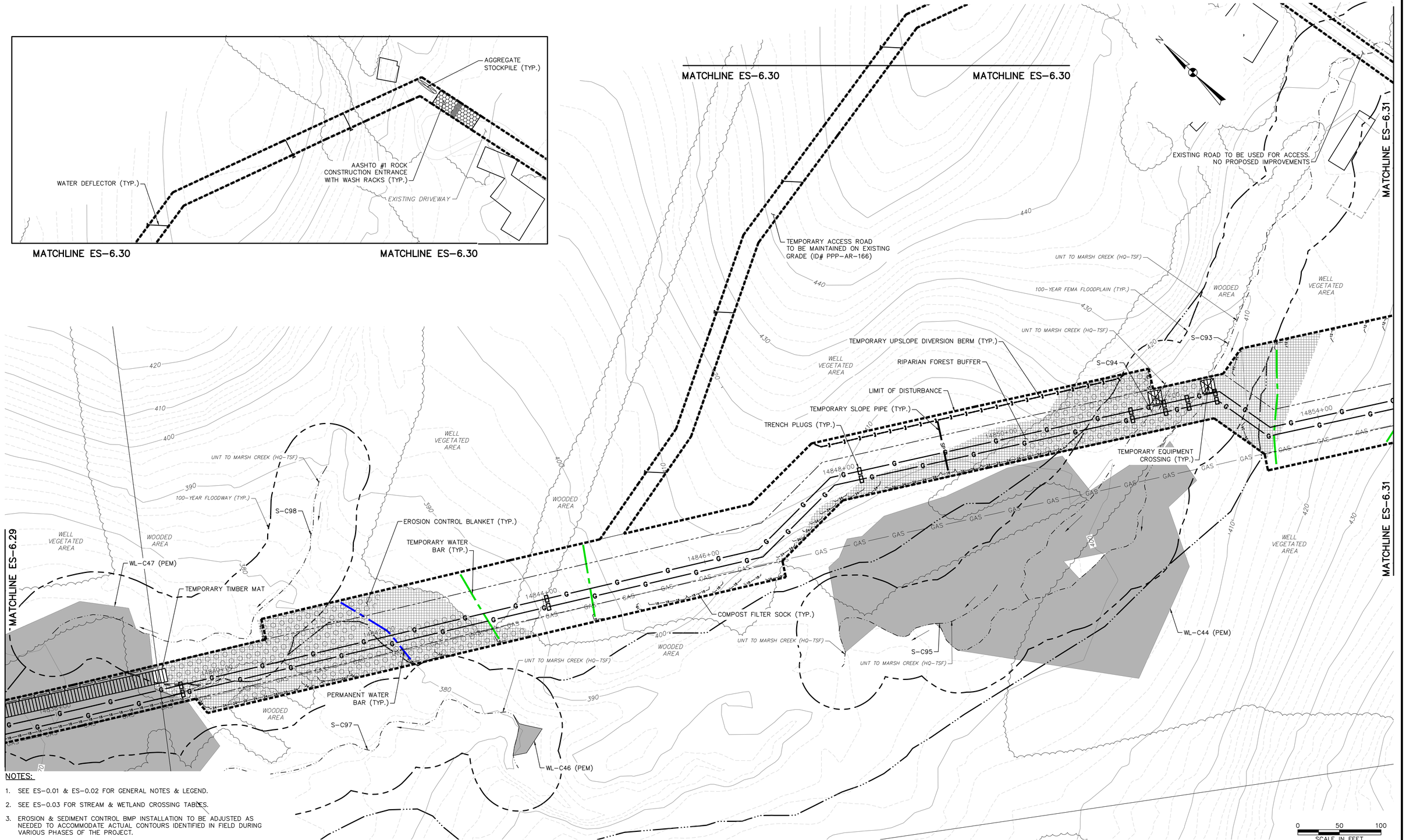

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COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ENGINEER ROBERT F. SIMCIK PE-090435-E

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 6

1-20" & 1-16" WELDED STEEL NATURAL GAS PIPELINES

CHESTER COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 30 OF 74

DATE:	2/4/17
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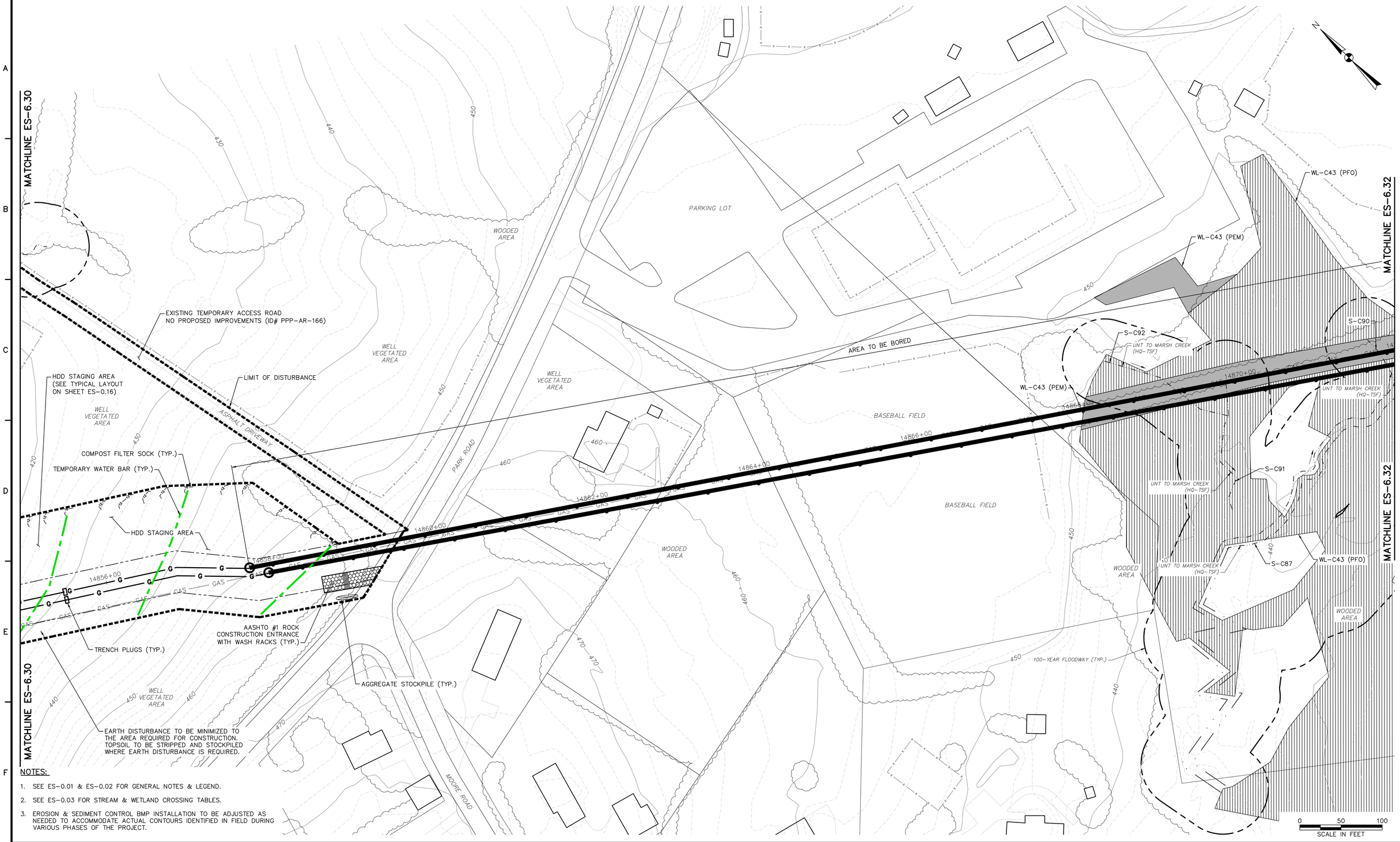

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ROBERT F. SIMCIK

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 6

1-20" & 1-16" WELDED STEEL NATURAL GAS PIPELINES

CHESTER COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN

SHEET 31 OF 74

DATE:	2/4/17
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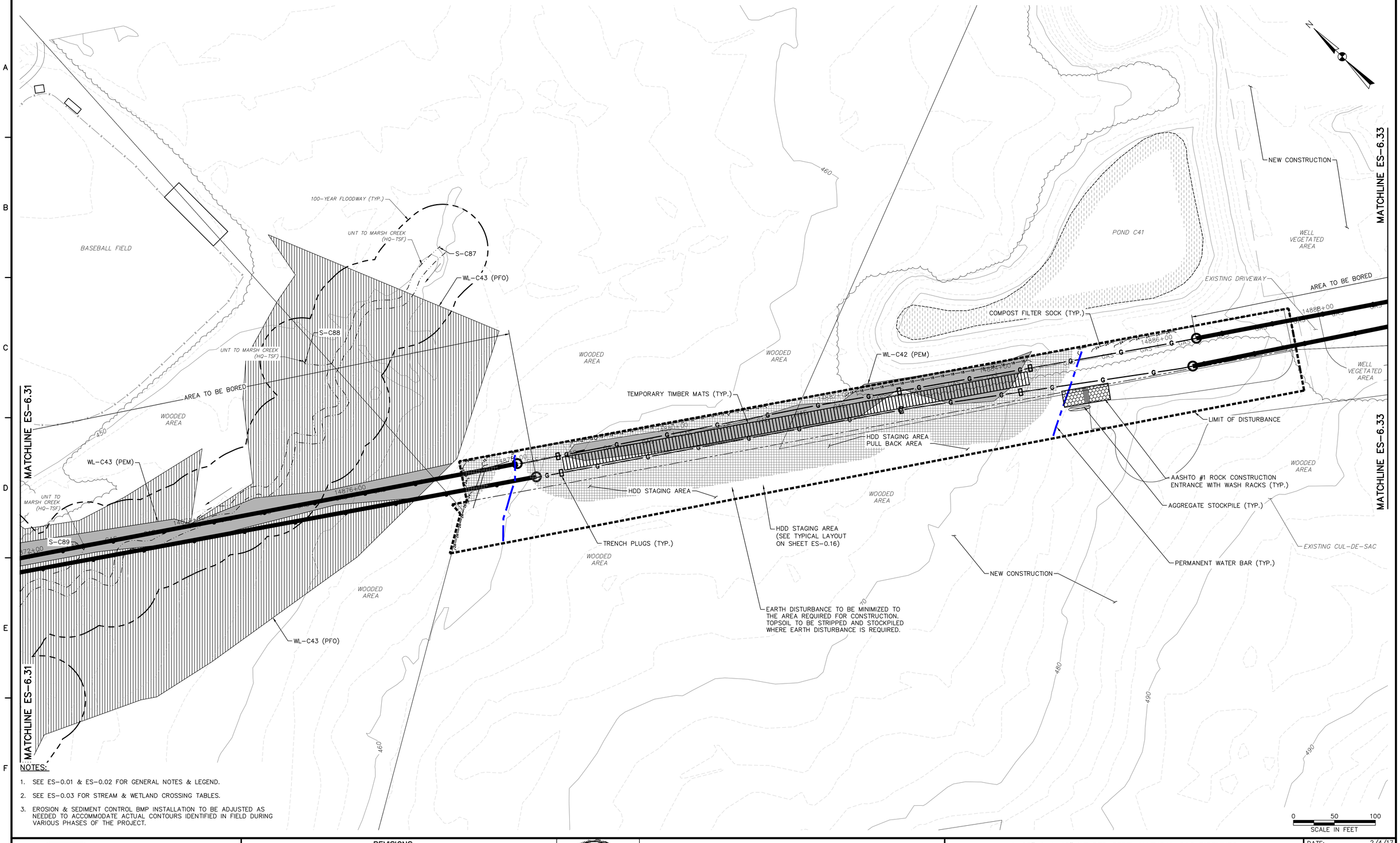

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COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL ENGINEER — ROBERT F. SIMCIK — PE-084834-E

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 6

1-20" & 1-16" WELDED STEEL NATURAL GAS PIPELINES

CHESTER COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 32 OF 74

DATE:	2/4/17
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NOTES:

1. SEE ES-0.01 & ES-0.02 FOR GENERAL NOTES & LEGEND.
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REVISIONS

NO.	BY	DATE	REMARKS

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
ROBERT F. SIMCIK
ENGINEER
PE-090408-E

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT
CONSTRUCTION SPREAD 6

1-20" & 1-16" WELDED STEEL NATURAL GAS PIPELINES

CHESTER COUNTY CONSERVATION DISTRICT
EROSION & SEDIMENT CONTROL &
SITE RESTORATION PLAN
SHEET 33 OF 74

DATE:	2/4/17
PROJECT NO.:	112C05958
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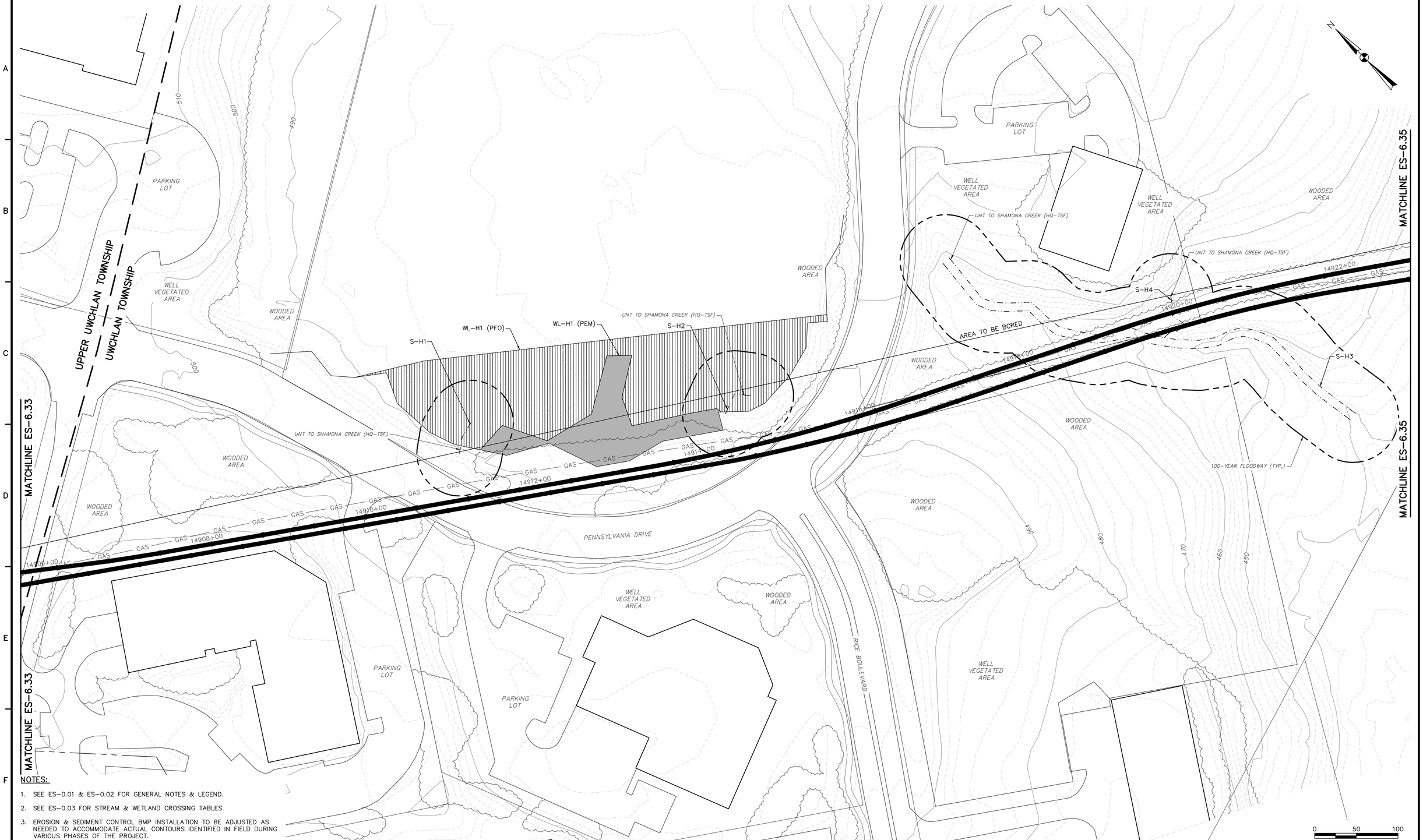

NOTES:

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REVISIONS

NO.	BY	DATE	REMARKS

COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL ENGINEER — ROBERT F. SIMCIK — PE-084435-E

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 6

1-20" & 1-16" WELDED STEEL NATURAL GAS PIPELINES

CHESTER COUNTY CONSERVATION DISTRICT
EROSION & SEDIMENT CONTROL &
SITE RESTORATION PLAN
SHEET 34 OF 74

DATE:	2/4/17
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EAGLEVIEW BOULEVARD

HERMAN O W DRIVE

PARKING LOT

WOODED AREA

WELL VEGETATED AREA

POND C9

MATCHLINE ES-6.34

MATCHLINE ES-6.36

AREA TO BE BORED

14924+00

14926+00

14928+00

14930+00

14932+00

14934+00

14936+00

14938+00

GAS

AGGREGATE STOCKPILE (TYP.)

LIMIT OF DISTURBANCE

TRENCH PLUGS (TYP.)

HDD PULLBACK AREA

HDD STAGING AREA (SEE TYPICAL LAYOUT ON SHEET ES-0.16)

AASHTO #1 ROCK CONSTRUCTION ENTRANCE (TYP.) WITH WASH RACKS

TEMPORARY GRADING TO ACCOMMODATE HDD ACTIVITIES

COMPOST FILTER SOCK (TYP.)

EARTH DISTURBANCE TO BE MINIMIZED TO THE AREA REQUIRED FOR CONSTRUCTION. TOPSOIL TO BE STRIPPED AND STOCKPILED WHERE EARTH DISTURBANCE IS REQUIRED.

100-YEAR FLOODWAY (TYP.)

UNT TO SHAMONA CREEK (HQ-TSF)

SHAMONA CREEK (HQ-TSF)

WL-C37 (PFO)

WL-C37 (PSS)

WL-C37 (PEM)

WL-C36 (PEM)

WL-JA2 (PEM)

WL-H2 (PEM)

S-C68

S-C69

S-C67

S-H6

S-H5

470

460

450

440

430

N

0 50 100

SCALE IN FEET

NOTES:

1. SEE ES-0.01 & ES-0.02 FOR GENERAL NOTES & LEGEND.
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REVISIONS

NO.	BY	DATE	REMARKS

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ROBERT F. SIMCIK ENGINEER PE-066435-E

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 6

1-20" & 1-16" WELDED STEEL NATURAL GAS PIPELINES

CHESTER COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 35 OF 74

DATE:	2/4/17
PROJECT NO.:	112C05958
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NOTES:

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REVISIONS

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COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ENGINEER ROBERT F. SIMCIK PE-056435-E

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 6

1-20" & 1-16" WELDED STEEL NATURAL GAS PIPELINES

CHESTER COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 36 OF 74

DATE:	2/4/17
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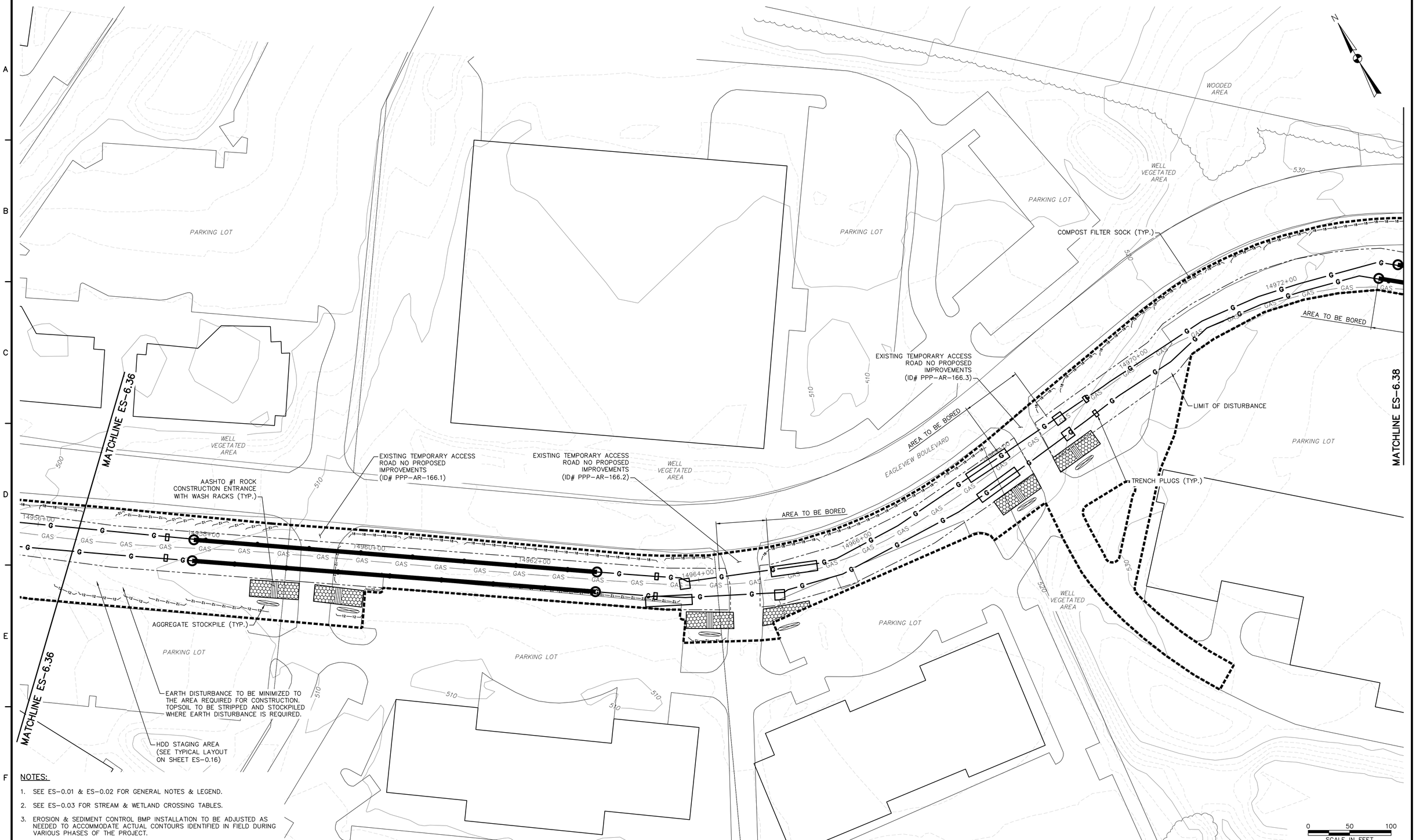

NOTES:

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SUNOCO PIPELINE L.P.
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1-20" & 1-16" WELDED STEEL NATURAL GAS PIPELINES

CHESTER COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 37 OF 74

DATE:	2/4/17
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NOTES:

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COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL ENGINEER
ROBERT F. SIMCIK
PE-084435-E

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT
CONSTRUCTION SPREAD 6

1-20" & 1-16" WELDED STEEL NATURAL GAS PIPELINES

CHESTER COUNTY CONSERVATION DISTRICT
EROSION & SEDIMENT CONTROL &
SITE RESTORATION PLAN
SHEET 38 OF 74

DATE:	2/4/17
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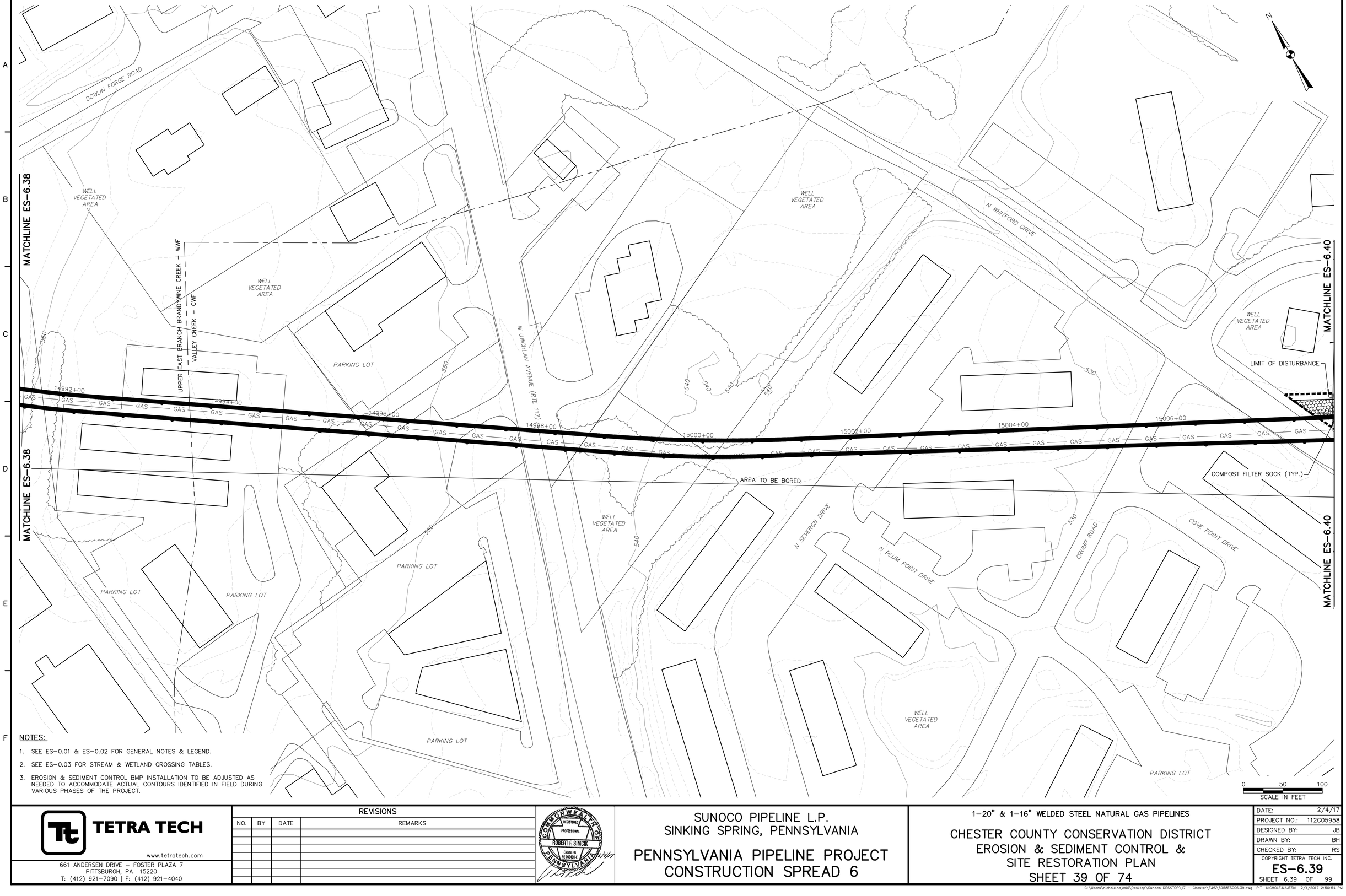

NOTES:

1. SEE ES-0.01 & ES-0.02 FOR GENERAL NOTES & LEGEND.
2. SEE ES-0.03 FOR STREAM & WETLAND CROSSING TABLES.
3. EROSION & SEDIMENT CONTROL BMP INSTALLATION TO BE ADJUSTED AS NEEDED TO ACCOMMODATE ACTUAL CONTOURS IDENTIFIED IN FIELD DURING VARIOUS PHASES OF THE PROJECT.

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REVISIONS

NO.	BY	DATE	REMARKS

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ROBERT F. SIMCIK ENGINEER PE-060435-E

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 6

1-20" & 1-16" WELDED STEEL NATURAL GAS PIPELINES

CHESTER COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 39 OF 74

DATE:	2/4/17
PROJECT NO.:	112C05958
DESIGNED BY:	JB
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CHECKED BY:	RS

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SHEET 6.39 OF 99

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MATCHLINE ES-6.39

MATCHLINE ES-6.41

BAKER DRIVE

CRUMP ROAD

MITCHELL ROAD

N WHITFORD ROAD

LORI COURT

WELL VEGETATED AREA

WOODED AREA

AGGREGATE STOCKPILE (TYP.)

AASHTO #1 ROCK CONSTRUCTION ENTRANCE WITH WASH RACKS (TYP.)

HDD STAGING AND PULLBACK AREA

TRENCH PLUGS (TYP.)

TEMPORARY WATER BAR (TYP.)

AREA TO BE BORED

COMPOST FILTER SOCK (TYP.)

HDD STAGING AREA (SEE TYPICAL LAYOUT ON SHEET ES-0.16)

S-C64

S-C65

EROSION CONTROL BLANKET (TYP.)

TEMPORARY EQUIPMENT CROSSING

RIPARIAN FOREST BUFFER (TYP.)

LIMIT OF DISTURBANCE

UNT TO VALLEY CREEK (CWF)

100-YEAR FLOODWAY (TYP.)

HDD PULLBACK AREA

HDD STAGING AREA (SEE TYPICAL LAYOUT ON SHEET ES-0.16)

15010+00 15012+00 15014+00 15016+00 15018+00 15020+00 15022+00

GAS

510 520 530

0 50 100

SCALE IN FEET

NOTES:

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ROBERT F. SIMCIK
ENGINEER
PE-090435-E

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 6

1-20" & 1-16" WELDED STEEL NATURAL GAS PIPELINES

CHESTER COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 40 OF 74

DATE:	2/4/17
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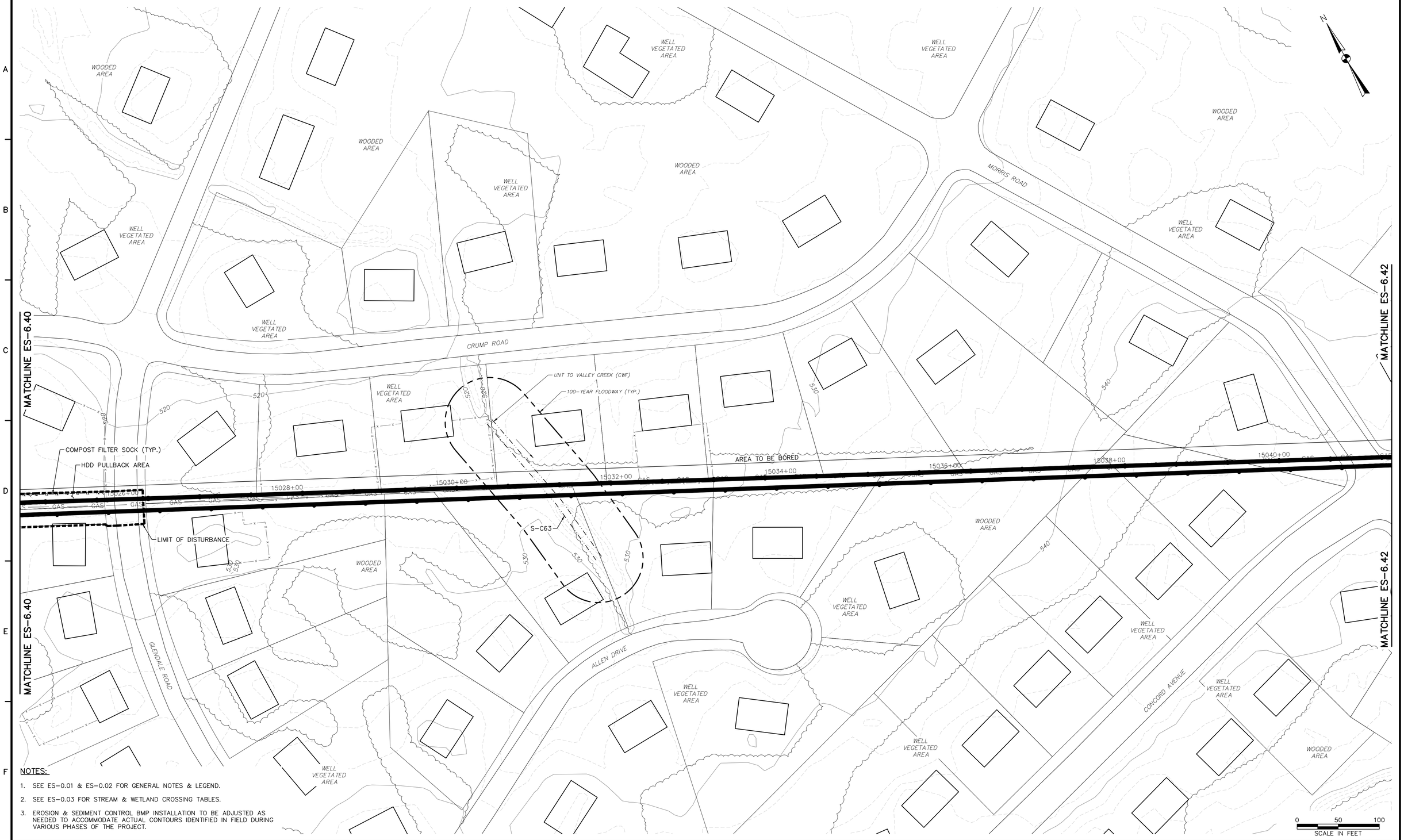

NOTES:

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ENGINEER
PE-084834-E

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT
CONSTRUCTION SPREAD 6

1-20" & 1-16" WELDED STEEL NATURAL GAS PIPELINES

CHESTER COUNTY CONSERVATION DISTRICT
EROSION & SEDIMENT CONTROL &
SITE RESTORATION PLAN
SHEET 41 OF 74

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COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL ENGINEER — ROBERT F. SIMCIK — PE-084408-E

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 6

1-20" & 1-16" WELDED STEEL NATURAL GAS PIPELINES

CHESTER COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 42 OF 74

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NOTES:

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COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ROBERT F. SIMCIK ENGINEER PE-060435-E

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 6

1-20" & 1-16" WELDED STEEL NATURAL GAS PIPELINES

CHESTER COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 43 OF 74

DATE:	2/4/17
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MATCHLINE ES-6.43

MATCHLINE ES-6.45

VALLEYVIEW DRIVE

N POTTSTOWN PIKE

SHOEN ROAD

ASPHALT DRIVE

PAVED PARKING LOT

HOLLY LANE

WELL VEGETATED AREA

WOODED AREA

100-YEAR FEMA FLOODPLAIN (TYP.)

UNT TO VALLEY CREEK (CWF)

WL-BB31B (PSS)

WL-BB31A (PEM)

WL-BB31B (PEM)

WL-BB31A (PSS)

S-C62

S-C59

S-C61

AREA TO BE BORED

EROSION CONTROL BLANKET (TYP.)

LIMIT OF DISTURBANCE

AASHTO #1 ROCK CONSTRUCTION ENTRANCE WITH WASH RACKS (TYP.)

COMPOST FILTER SOCK (TYP.)

HDD STAGING AREA (SEE TYPICAL LAYOUT ON SHEET ES-0.16)

HDD PULLBACK AREA

TEMPORARY TIMBER MAT

TEMPORARY EQUIPMENT CROSSING

AGGREGATE STOCKPILE (TYP.)

EARTH DISTURBANCE TO BE MINIMIZED TO THE AREA REQUIRED FOR CONSTRUCTION. TOPSOIL TO BE STRIPPED AND STOCKPILED WHERE EARTH DISTURBANCE IS REQUIRED.

GAS

15076+00

15078+00

15080+00

15082+00

15084+00

15086+00

15088+00

15090+00

NOTES:

1. SEE ES-0.01 & ES-0.02 FOR GENERAL NOTES & LEGEND.
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0 50 100
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SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 6

1-20" & 1-16" WELDED STEEL NATURAL GAS PIPELINES

CHESTER COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 44 OF 74

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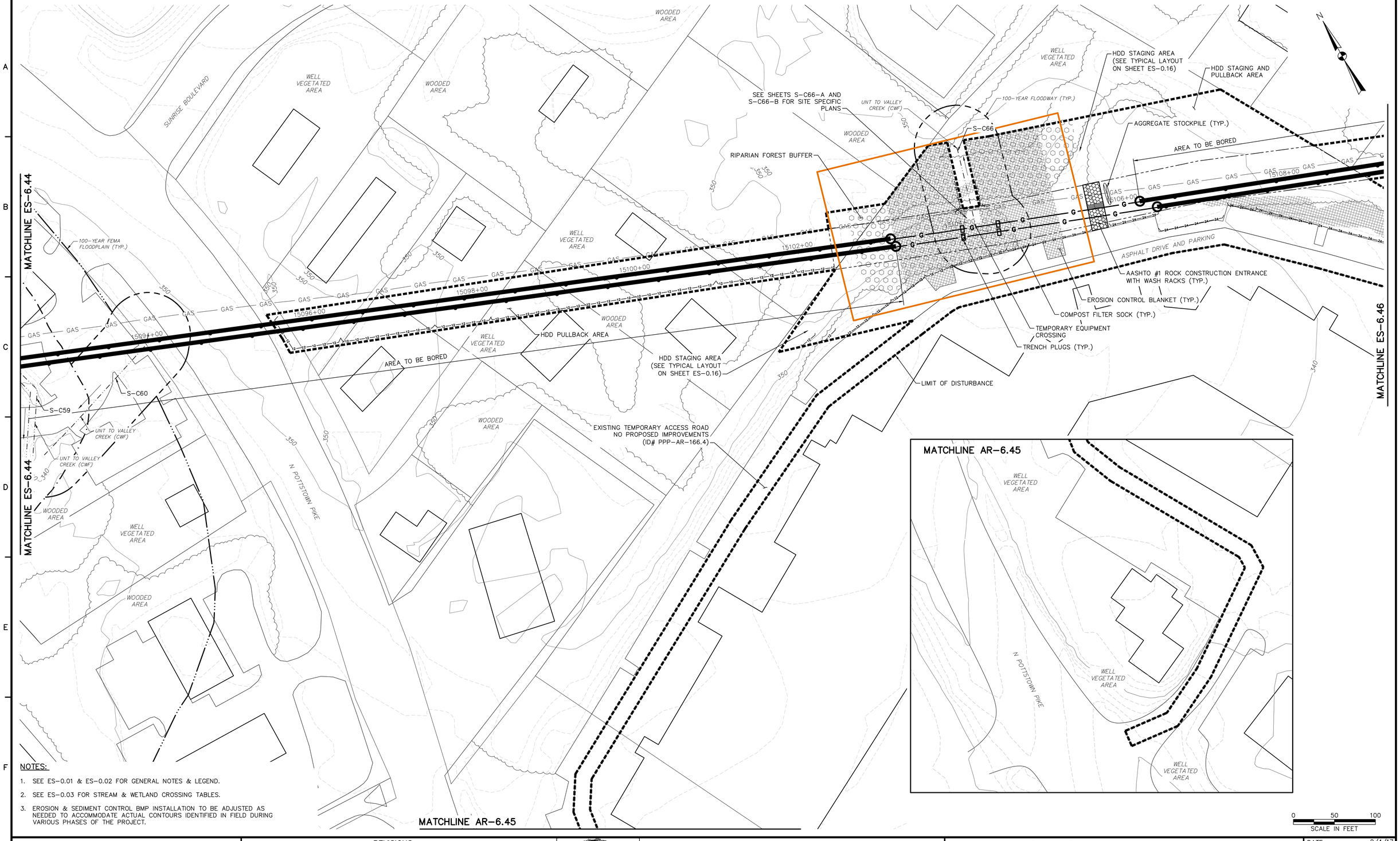

NOTES:

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PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 6

1-20" & 1-16" WELDED STEEL NATURAL GAS PIPELINES

CHESTER COUNTY CONSERVATION DISTRICT
EROSION & SEDIMENT CONTROL &
SITE RESTORATION PLAN
SHEET 45 OF 74

DATE:	2/4/17
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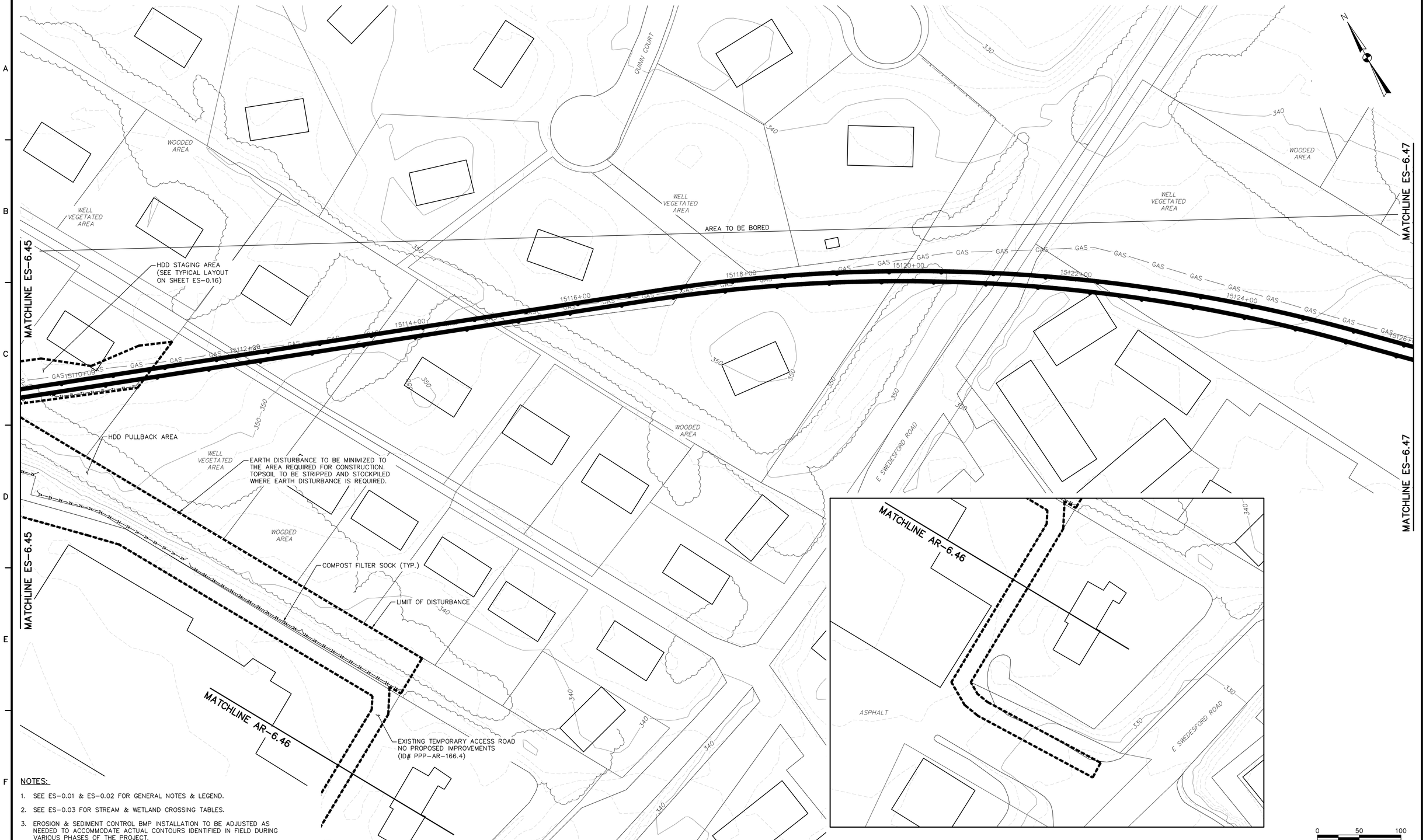

NOTES:

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REVISIONS

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COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL — ROBERT F. SIMCIK — ENGINEER PE-084435-E

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 6

1-20" & 1-16" WELDED STEEL NATURAL GAS PIPELINES

CHESTER COUNTY CONSERVATION DISTRICT
EROSION & SEDIMENT CONTROL &
SITE RESTORATION PLAN
SHEET 46 OF 74

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NOTES:

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ENGINEER
PE-084626-E

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT
CONSTRUCTION SPREAD 6

1-20" & 1-16" WELDED STEEL NATURAL GAS PIPELINES

CHESTER COUNTY CONSERVATION DISTRICT
EROSION & SEDIMENT CONTROL &
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SHEET 47 OF 82

DATE:	2/4/17
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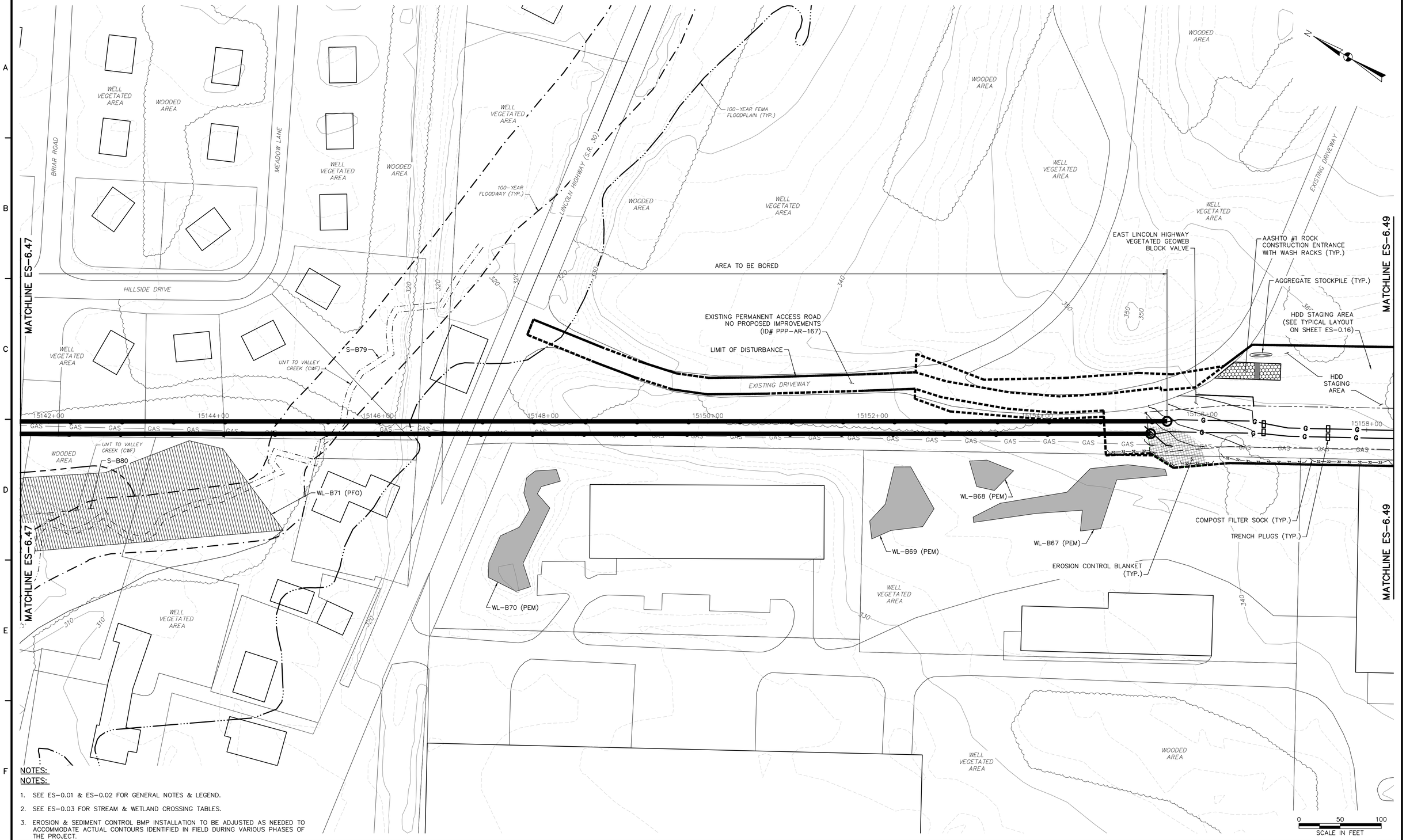

NOTES:
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ENGINEER
PE-060435-E

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 6

1-20" & 1-16" WELDED STEEL NATURAL GAS PIPELINES

CHESTER COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN

SHEET 48 OF 74

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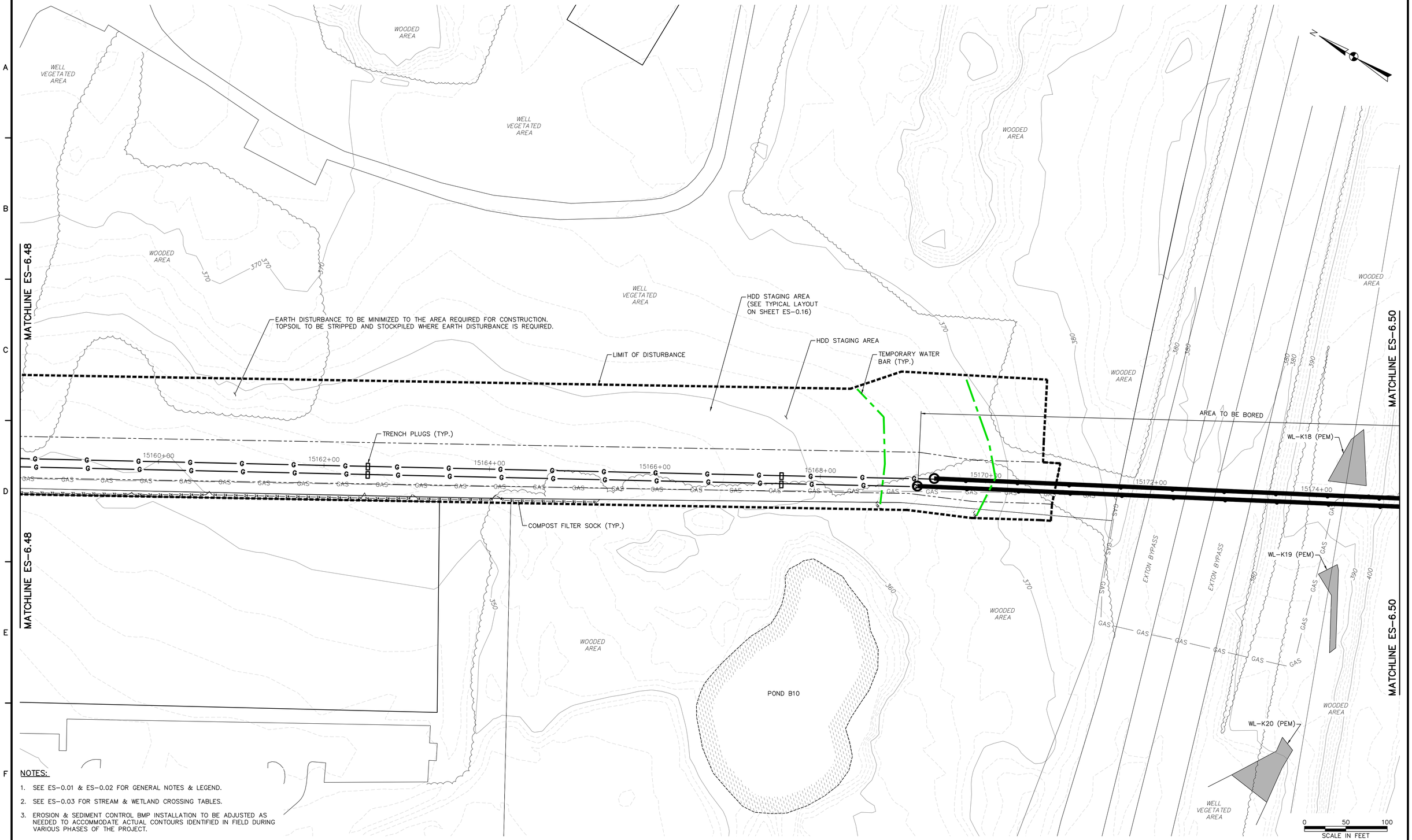

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COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ENGINEER ROBERT F. SIMCIK PE-090435-E

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 6

1-20" & 1-16" WELDED STEEL NATURAL GAS PIPELINES

CHESTER COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 49 OF 74

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COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL ENGINEER — ROBERT F. SIMCIK — PE-084435-E

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 6

1-20" & 1-16" WELDED STEEL NATURAL GAS PIPELINES

CHESTER COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 50 OF 74

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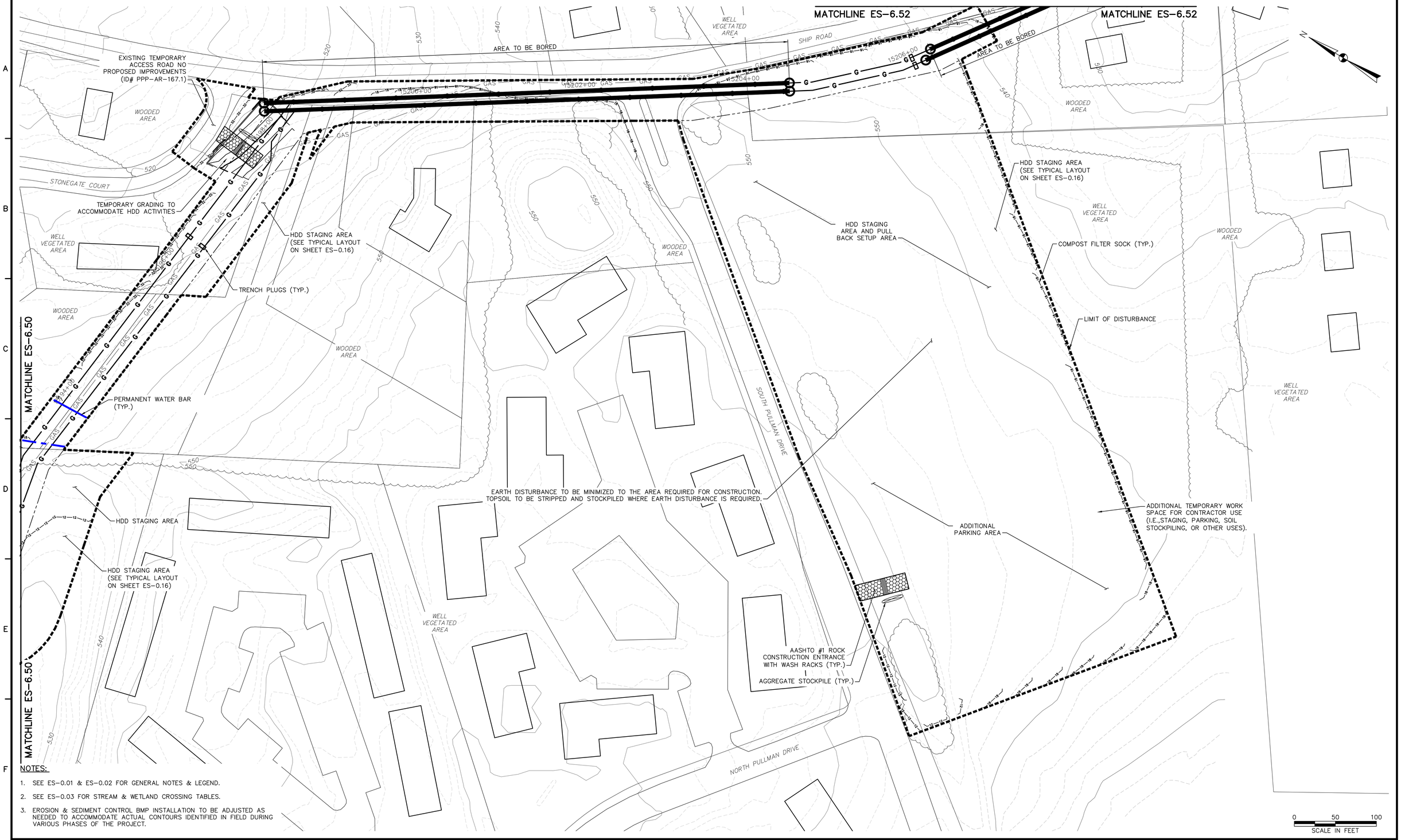

NOTES:

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SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 6

1-20" & 1-16" WELDED STEEL NATURAL GAS PIPELINES

CHESTER COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN

SHEET 51 OF 74

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NOTES:

1. SEE ES-0.01 & ES-0.02 FOR GENERAL NOTES & LEGEND.
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COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL ENGINEER
ROBERT F. SIMCIK
PE-050435-E

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT
CONSTRUCTION SPREAD 6

1-20" & 1-16" WELDED STEEL NATURAL GAS PIPELINES

CHESTER COUNTY CONSERVATION DISTRICT
EROSION & SEDIMENT CONTROL &
SITE RESTORATION PLAN
SHEET 52 OF 74

DATE:	2/4/17
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NOTES:

1. SEE ES-0.01 & ES-0.02 FOR GENERAL NOTES & LEGEND.
2. SEE ES-0.03 FOR STREAM & WETLAND CROSSING TABLES.
3. EROSION & SEDIMENT CONTROL BMP INSTALLATION TO BE ADJUSTED AS NEEDED TO ACCOMMODATE ACTUAL CONTOURS IDENTIFIED IN FIELD DURING VARIOUS PHASES OF THE PROJECT.

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COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL ENGINEER
ROBERT F. SIMCIK
PE-090435-E

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 6

1-20" & 1-16" WELDED STEEL NATURAL GAS PIPELINES

CHESTER COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 53 OF 74

DATE:	2/4/17
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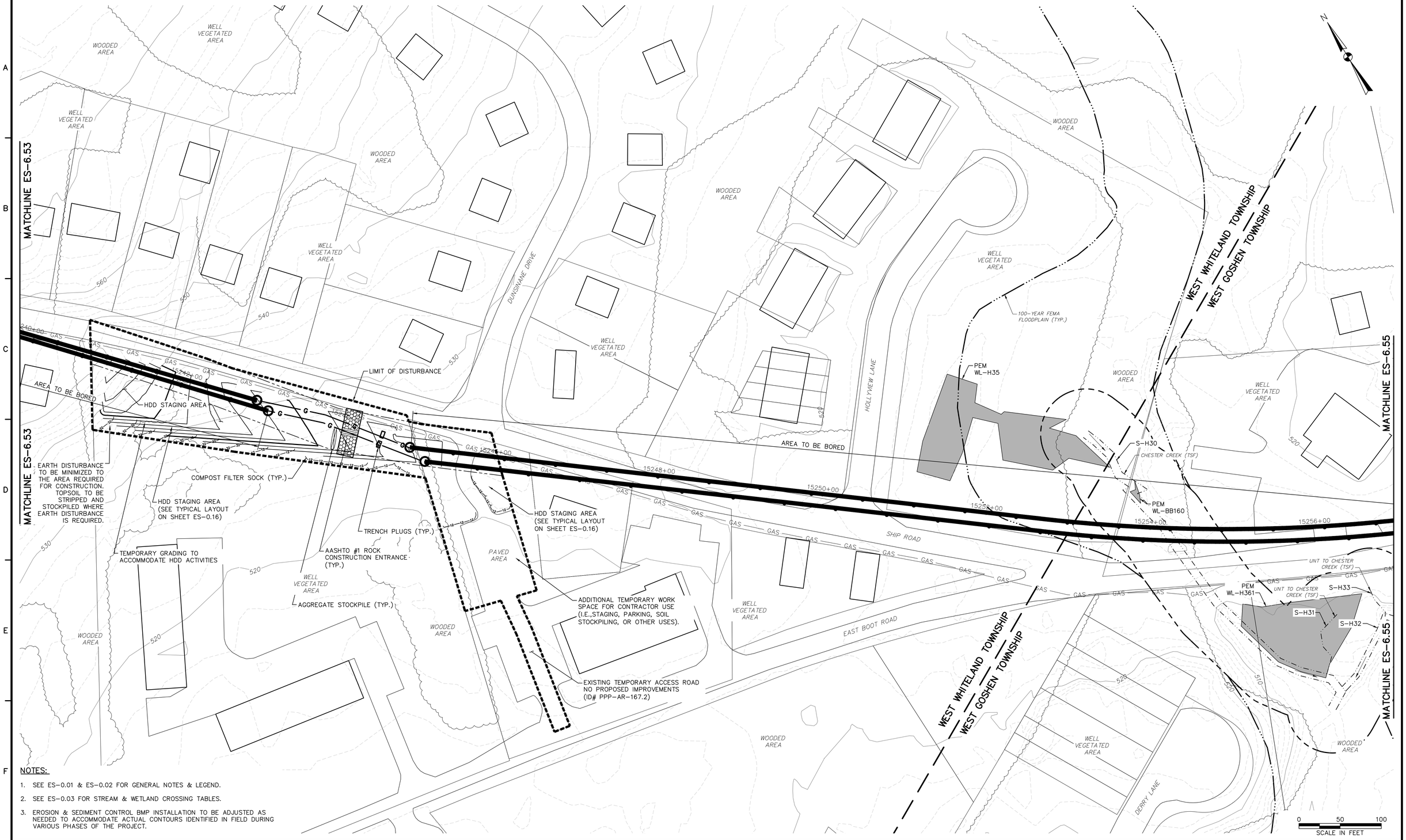

NOTES:

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COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ROBERT F. SIMCIK ENGINEER PE-056435-E

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 6

1-20" & 1-16" WELDED STEEL NATURAL GAS PIPELINES

CHESTER COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 54 OF 74

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SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 6

1-20" & 1-16" WELDED STEEL NATURAL GAS PIPELINES

CHESTER COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 55 OF 74

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ROBERT F. SIMCIK
ENGINEER
PE-084834-E

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 6

1-20" & 1-16" WELDED STEEL NATURAL GAS PIPELINES

CHESTER COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 56 OF 74

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NOTES:

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SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 6

1-20" & 1-16" WELDED STEEL NATURAL GAS PIPELINES

CHESTER COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 57 OF 74

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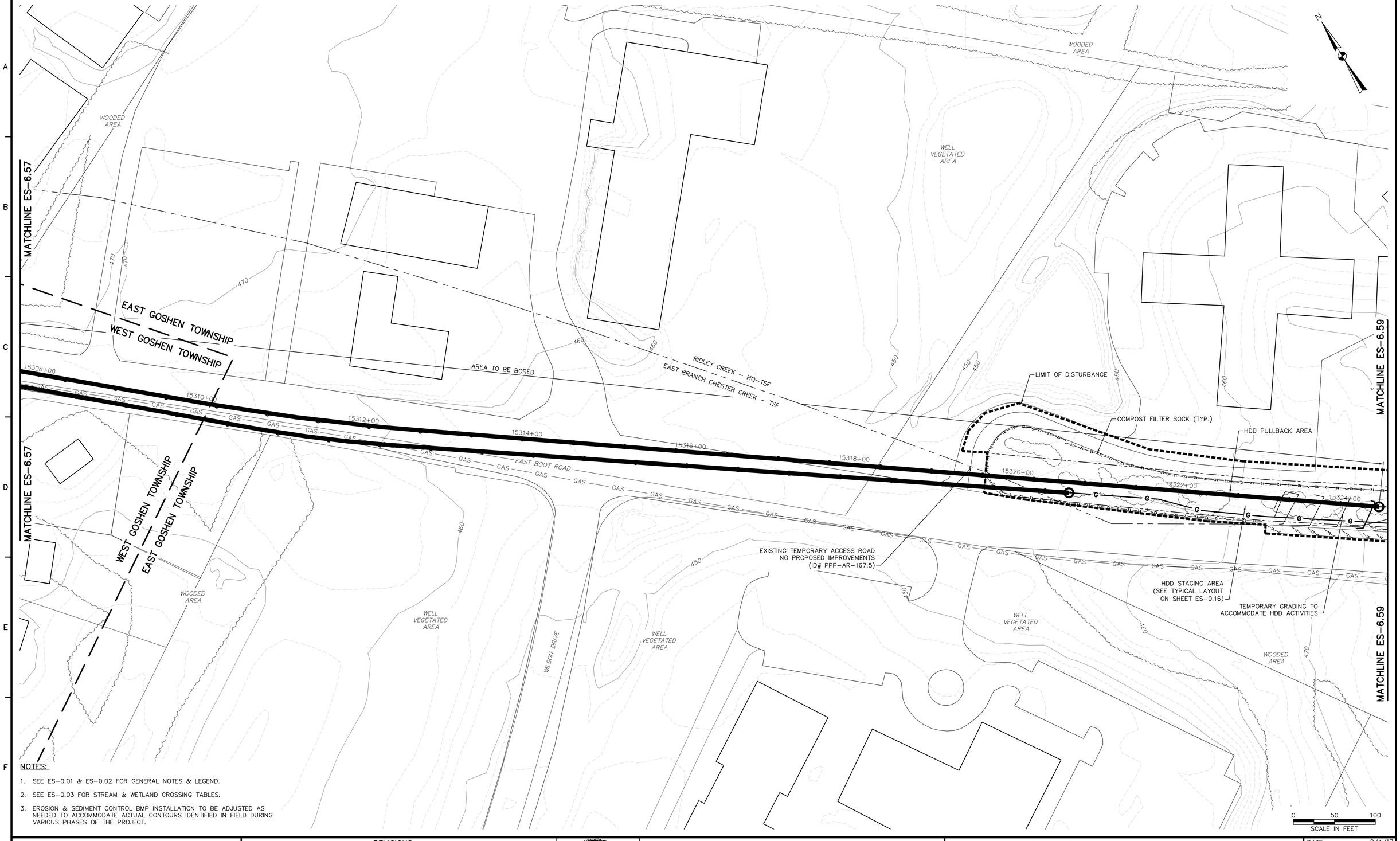

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COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ENGINEER ROBERT F. SIMCIK PE-090435-E

SUNOCO PIPELINE L.P.
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PENNSYLVANIA PIPELINE PROJECT
CONSTRUCTION SPREAD 6

1-20" & 1-16" WELDED STEEL NATURAL GAS PIPELINES

CHESTER COUNTY CONSERVATION DISTRICT
EROSION & SEDIMENT CONTROL &
SITE RESTORATION PLAN
SHEET 58 OF 74

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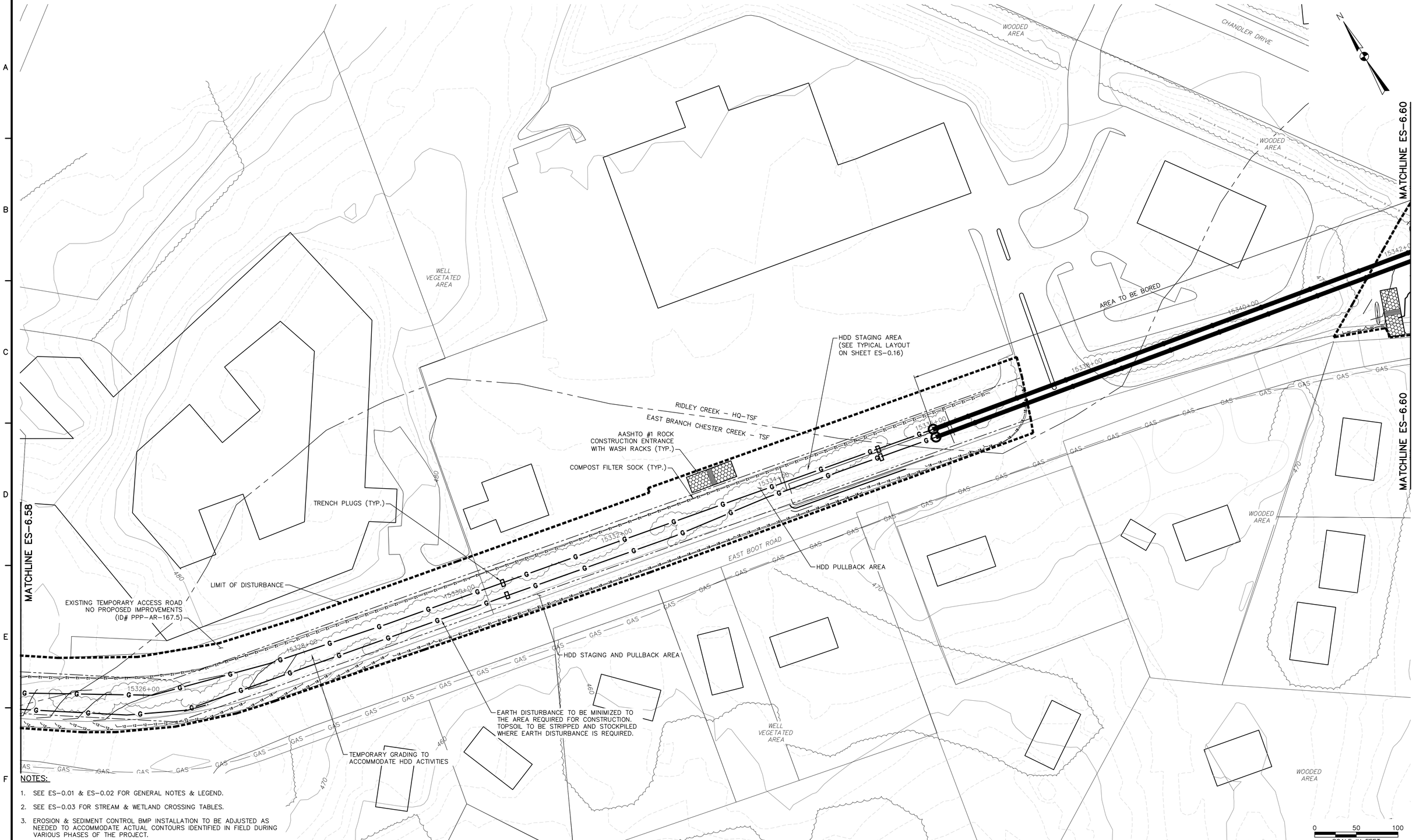

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PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 6

1-20" & 1-16" WELDED STEEL NATURAL GAS PIPELINES

CHESTER COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 59 OF 74

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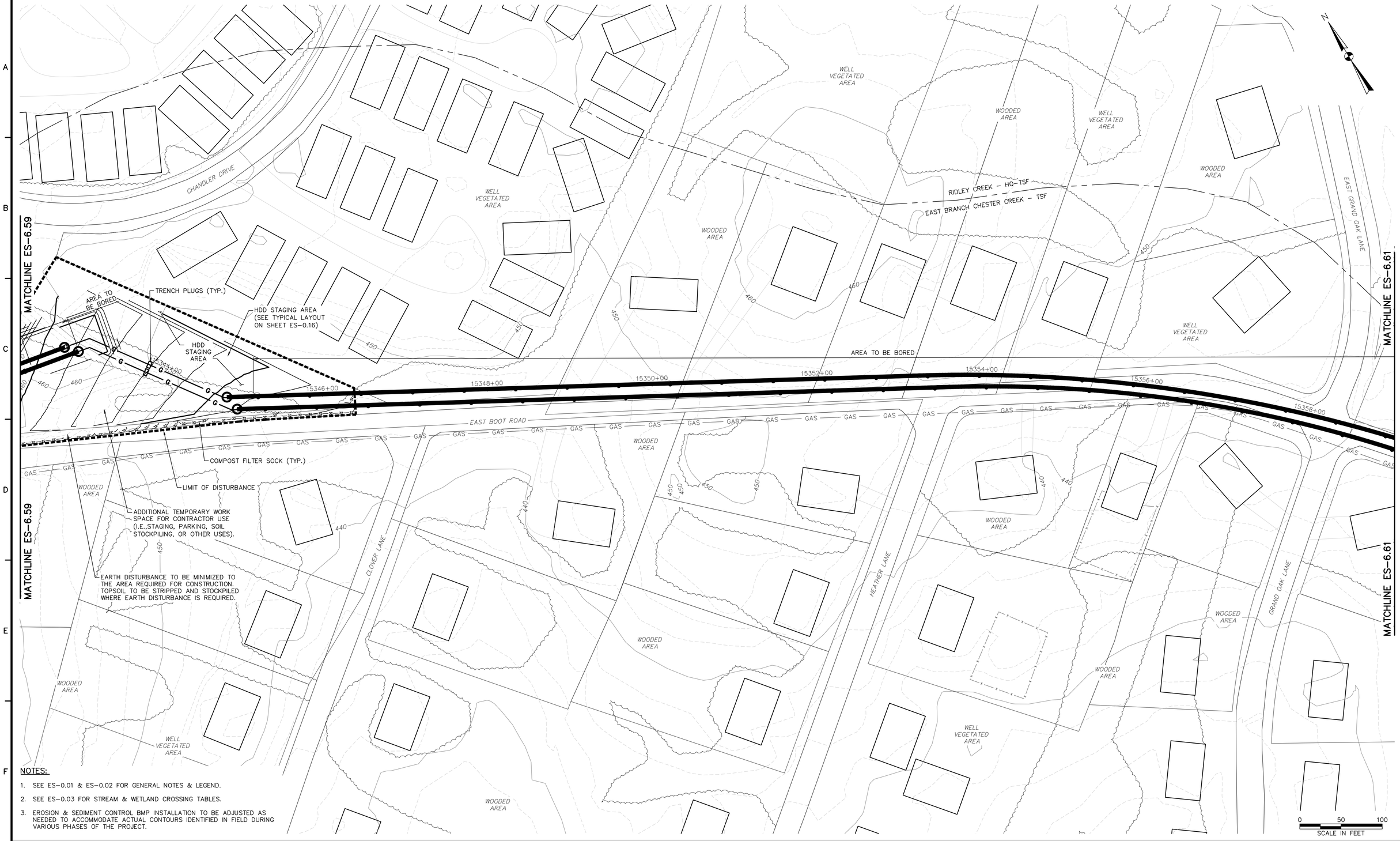

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SUNOCO PIPELINE L.P.
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PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 6

1-20" & 1-16" WELDED STEEL NATURAL GAS PIPELINES

CHESTER COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 60 OF 74

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NOTES:

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COMMONWEALTH OF PENNSYLVANIA
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ROBERT F. SIMCIK
ENGINEER
PE-060435-E

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 6

1-20" & 1-16" WELDED STEEL NATURAL GAS PIPELINES

CHESTER COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 61 OF 74

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MATCHLINE AR–6.62

MATCHLINE AR–6.62

MATCHLINE ES–6.61

MATCHLINE ES–6.63

WELL VEGETATED AREA

WOODED AREA

ENTERPRISE DRIVE

CONTINENTAL DRIVE

GENERALS WAY

VON STRUBEN DRIVE

RIDLEY CREEK – HQ–TSF

EAST BRANCH CHESTER CREEK – TSF

SUNOCO SERVICE STATION CURRENTLY SUBJECT TO PADEP REMEDIAL ACTION PLAN. DEP FACILITY ID NO. 15–20353. CONTRACTOR TO COORDINATE WITH SUNOCO PRIOR TO CONDUCTING HDD.

HDD STAGING AREA (SEE TYPICAL LAYOUT ON SHEET ES–0.16)

AREA TO BE BORED

EAST BOOT ROAD

TEMPORARY GRADING TO ACCOMMODATE ACTIVITIES

AASHTO #1 ROCK CONSTRUCTION ENTRANCE WITH WASH RACKS (TYP.)

AGGREGATE STOCKPILE (TYP.)

TRENCH PLUGS (TYP.)

LIMIT OF DISTURBANCE

COMPOST FILTER SOCK (TYP.)

EXISTING ASPHALT

ADDITIONAL TEMPORARY WORK SPACE FOR CONTRACTOR USE (I.E., STAGING, PARKING, SOIL STOCKPILING, OR OTHER USES)

EARTH DISTURBANCE TO BE MINIMIZED TO THE AREA REQUIRED FOR CONSTRUCTION. TOPSOIL TO BE STRIPPED AND STOCKPILED WHERE EARTH DISTURBANCE IS REQUIRED.

EXISTING TEMPORARY ACCESS ROAD NO PROPOSED IMPROVEMENTS (ID# PPP–AR–167.6)

EROSION CONTROL BLANKET (TYP.)

HDD PULLBACK AREA

PAOLI PIKE

NOTES:

1. SEE ES–0.01 & ES–0.02 FOR GENERAL NOTES & LEGEND.
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MATCHLINE AR–6.62

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SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 6

1–20" & 1–16" WELDED STEEL NATURAL GAS PIPELINES

CHESTER COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 62 OF 74

DATE:	2/4/17
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NOTES:

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SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 6

1-20" & 1-16" WELDED STEEL NATURAL GAS PIPELINES

CHESTER COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 63 OF 74

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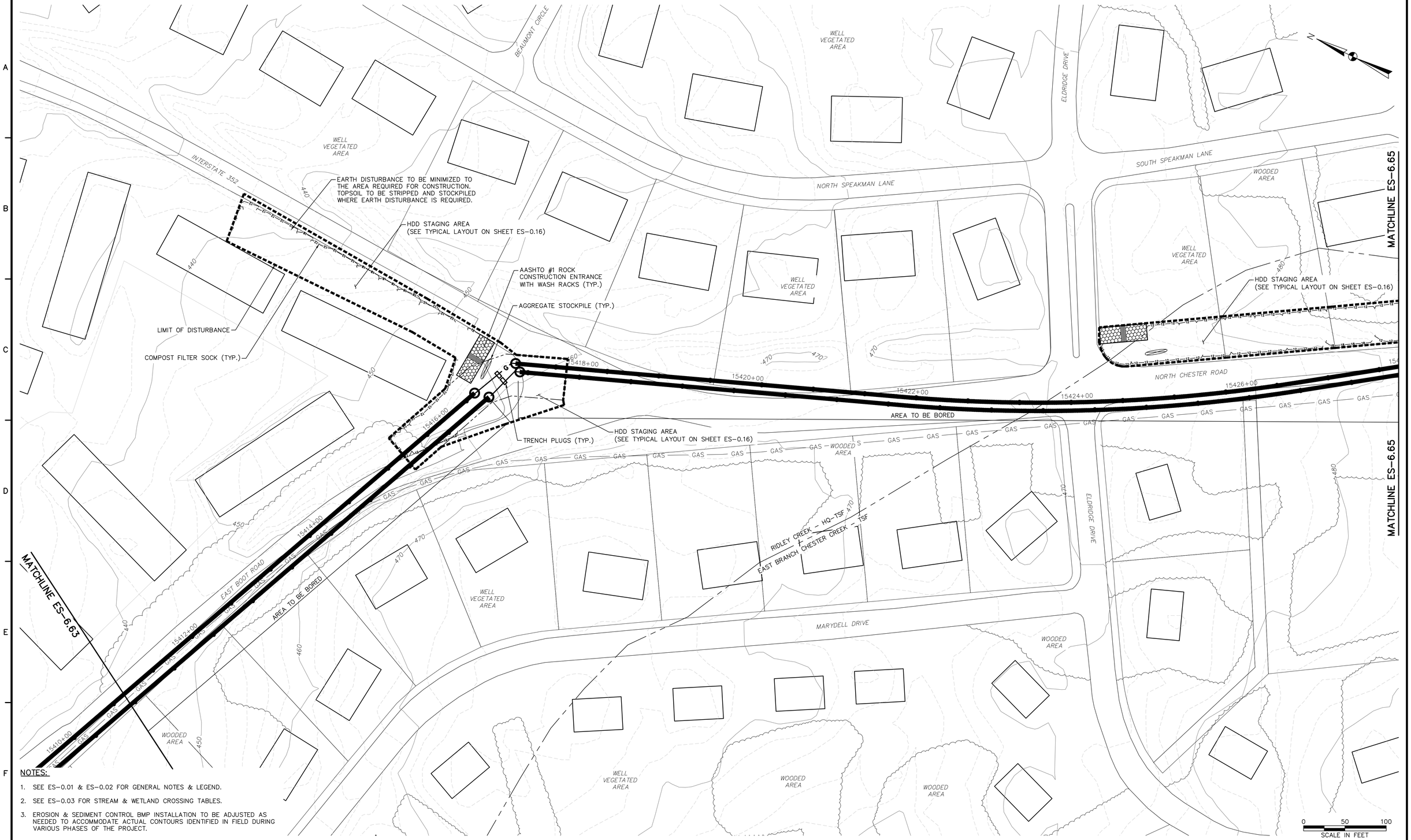

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SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 6

1-20" & 1-16" WELDED STEEL NATURAL GAS PIPELINES

CHESTER COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 64 OF 74

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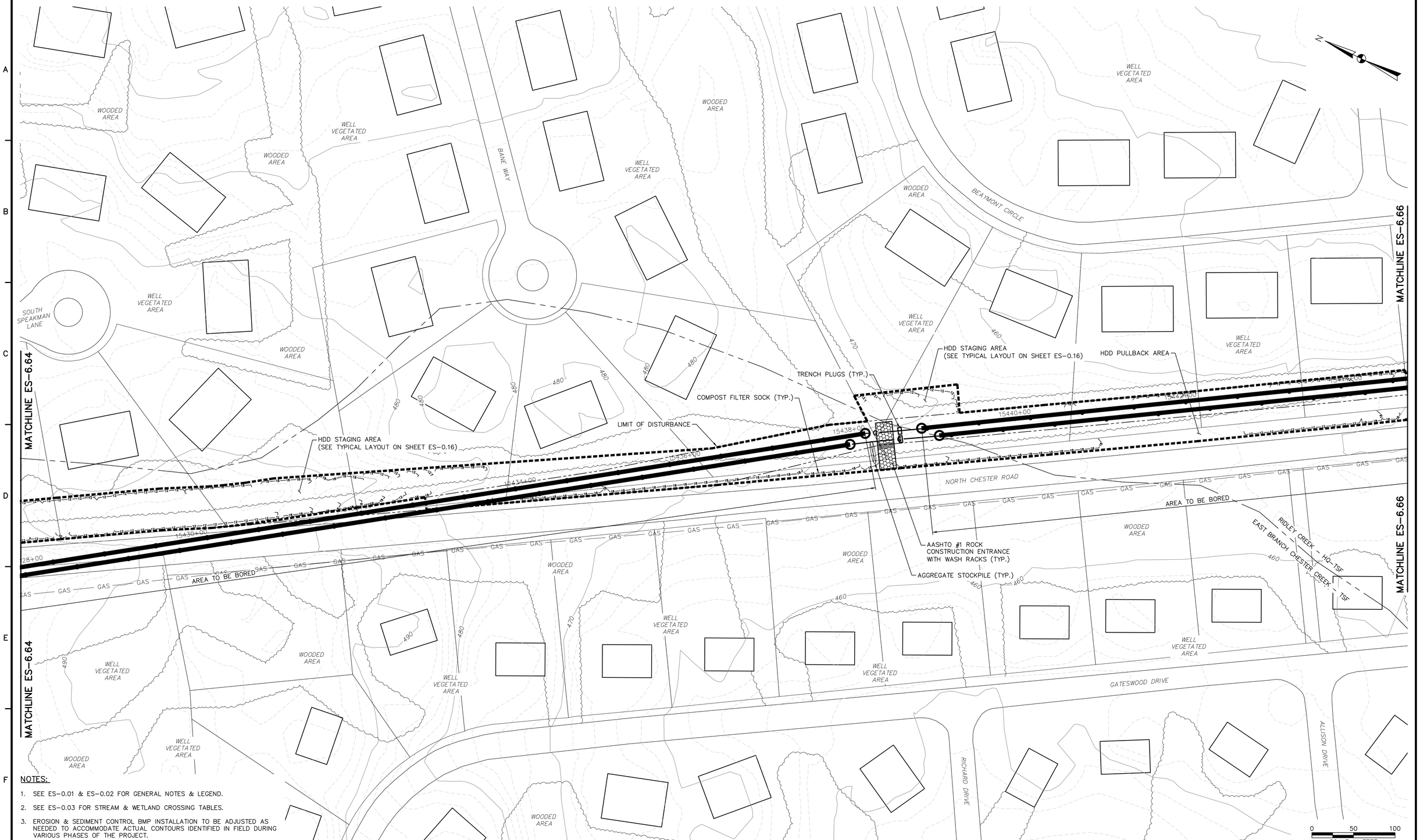

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SUNOCO PIPELINE L.P.
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CHESTER COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 65 OF 74

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COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ROBERT F. SIMCIK ENGINEER PE-056435-E

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 6

1-20" & 1-16" WELDED STEEL NATURAL GAS PIPELINES

CHESTER COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 66 OF 74

DATE:	2/4/17
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REVISIONS

NO.	BY	DATE	REMARKS

COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL ENGINEER — ROBERT F. SIMCIK — PE-090435-E

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 6

1-20" & 1-16" WELDED STEEL NATURAL GAS PIPELINES

CHESTER COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 67 OF 74

DATE:	2/4/17
PROJECT NO.:	112C05958
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DRAWN BY:	BH
CHECKED BY:	RS

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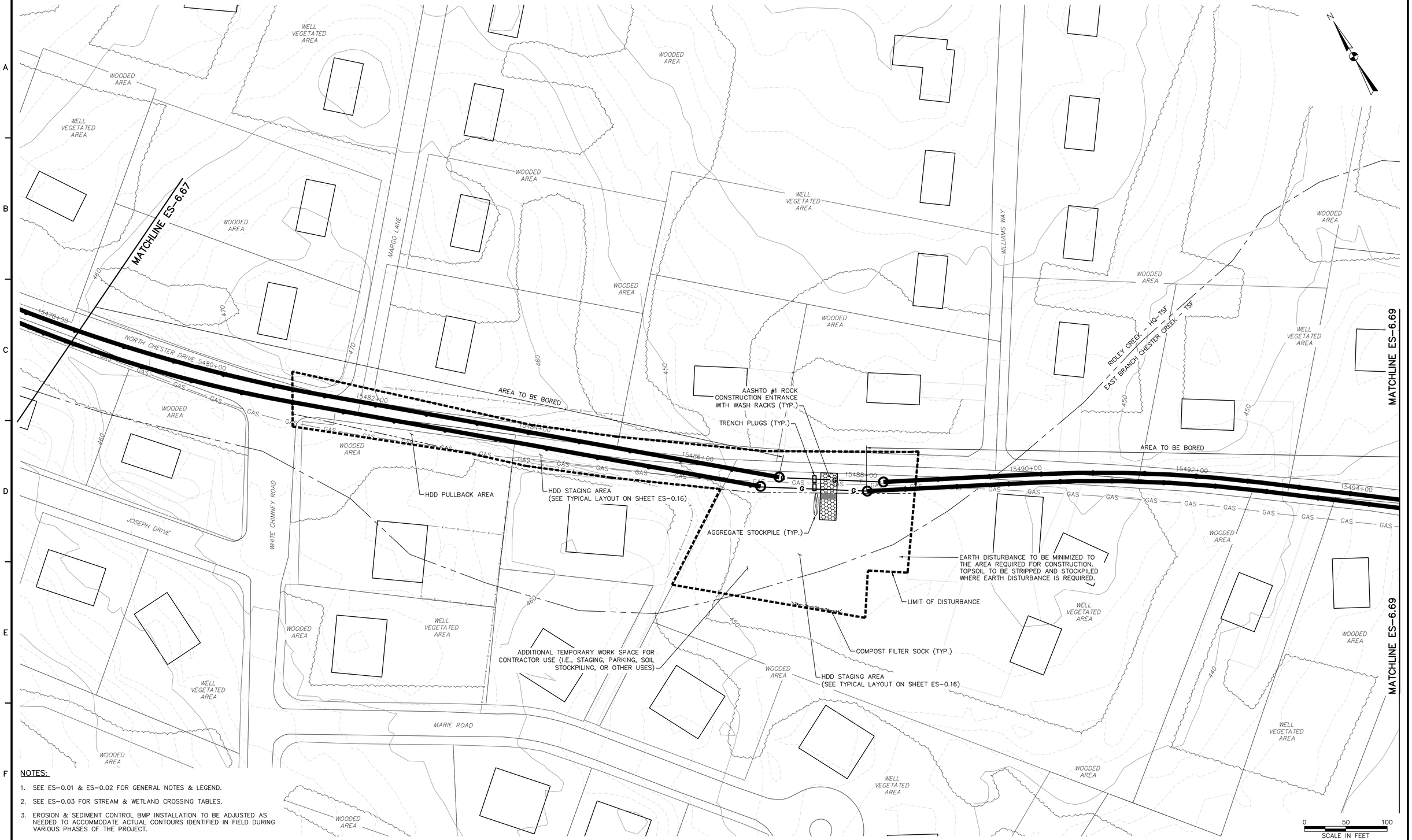

NOTES:

1. SEE ES-0.01 & ES-0.02 FOR GENERAL NOTES & LEGEND.
2. SEE ES-0.03 FOR STREAM & WETLAND CROSSING TABLES.
3. EROSION & SEDIMENT CONTROL BMP INSTALLATION TO BE ADJUSTED AS NEEDED TO ACCOMMODATE ACTUAL CONTOURS IDENTIFIED IN FIELD DURING VARIOUS PHASES OF THE PROJECT.

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COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ROBERT F. SIMCIK ENGINEER PE-060435-E

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 6

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CHESTER COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 68 OF 74

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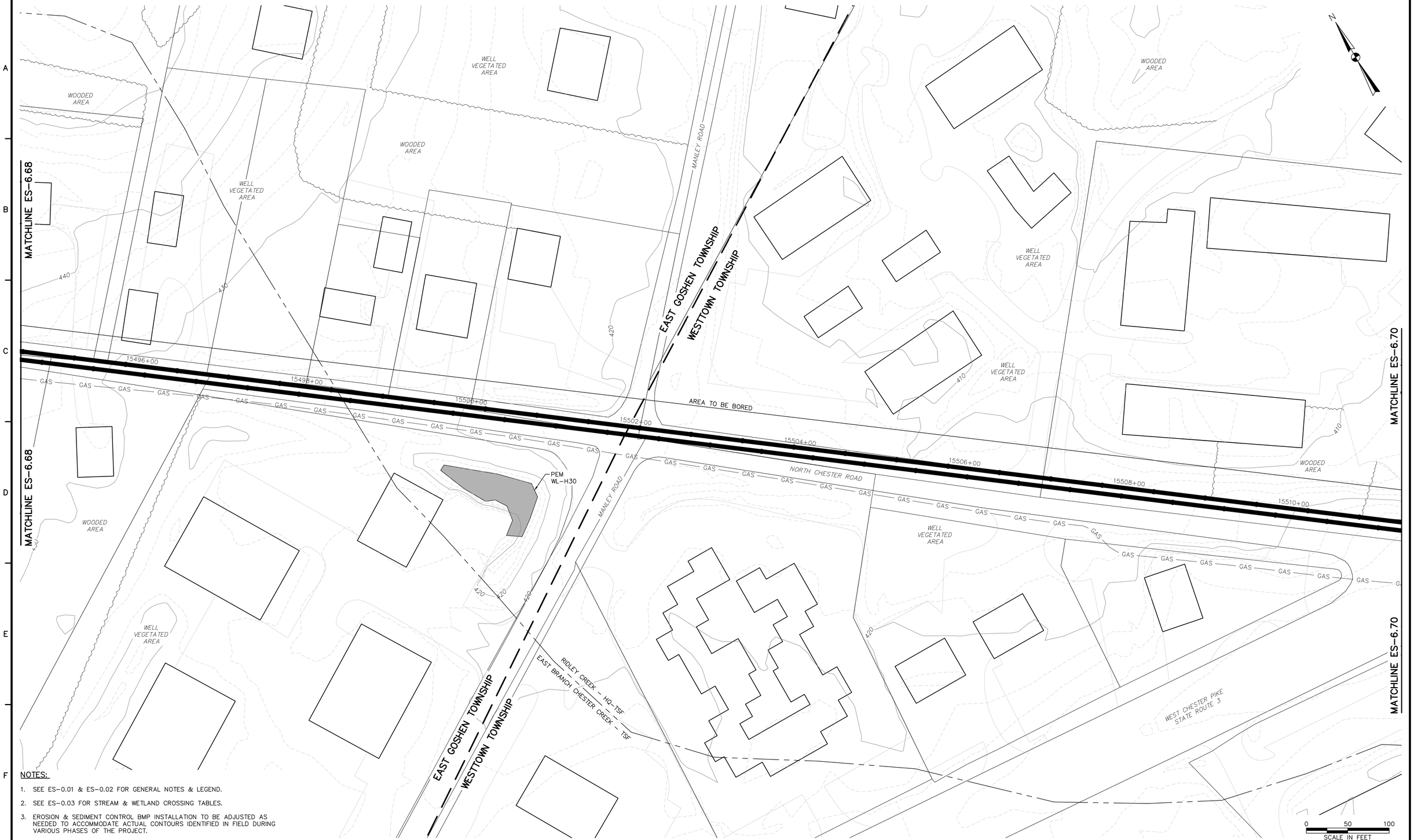

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COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ENGINEER ROBERT F. SIMCIK PE-084435-E

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CHESTER COUNTY CONSERVATION DISTRICT
EROSION & SEDIMENT CONTROL &
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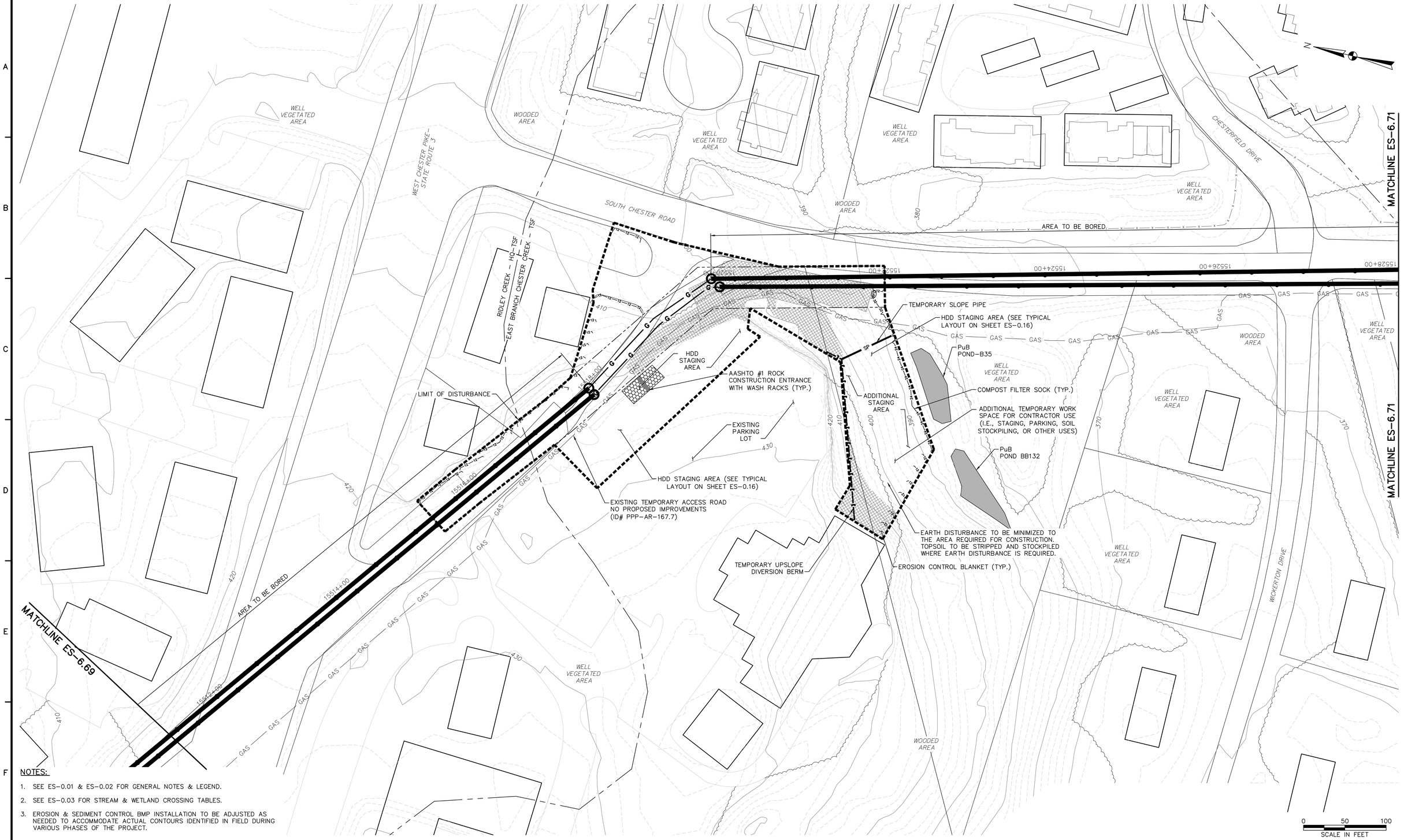

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CHESTER COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 70 OF 74

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CHESTER COUNTY CONSERVATION DISTRICT
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SHEET 71 OF 74

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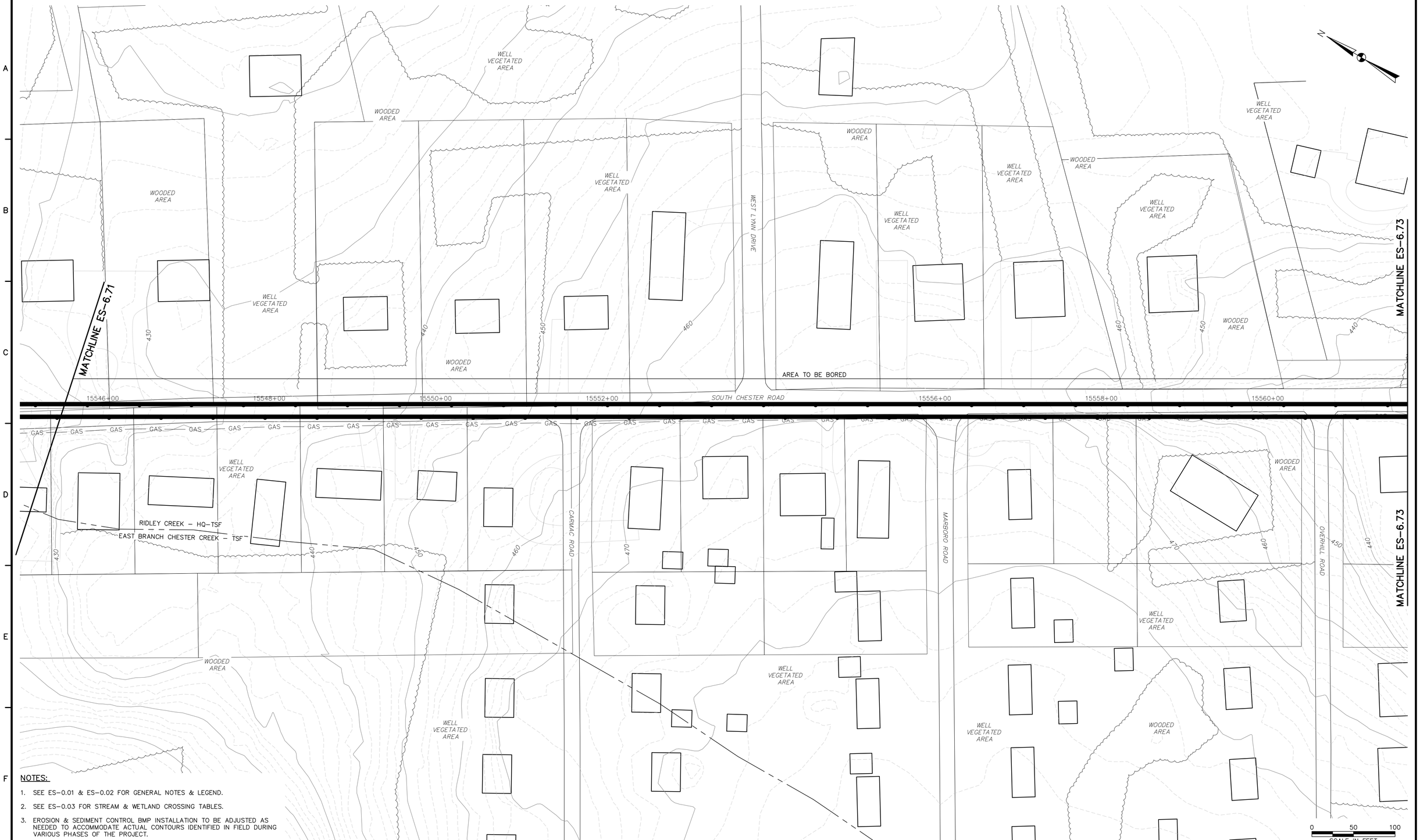

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CHESTER COUNTY CONSERVATION DISTRICT
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CHESTER COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 73 OF 74

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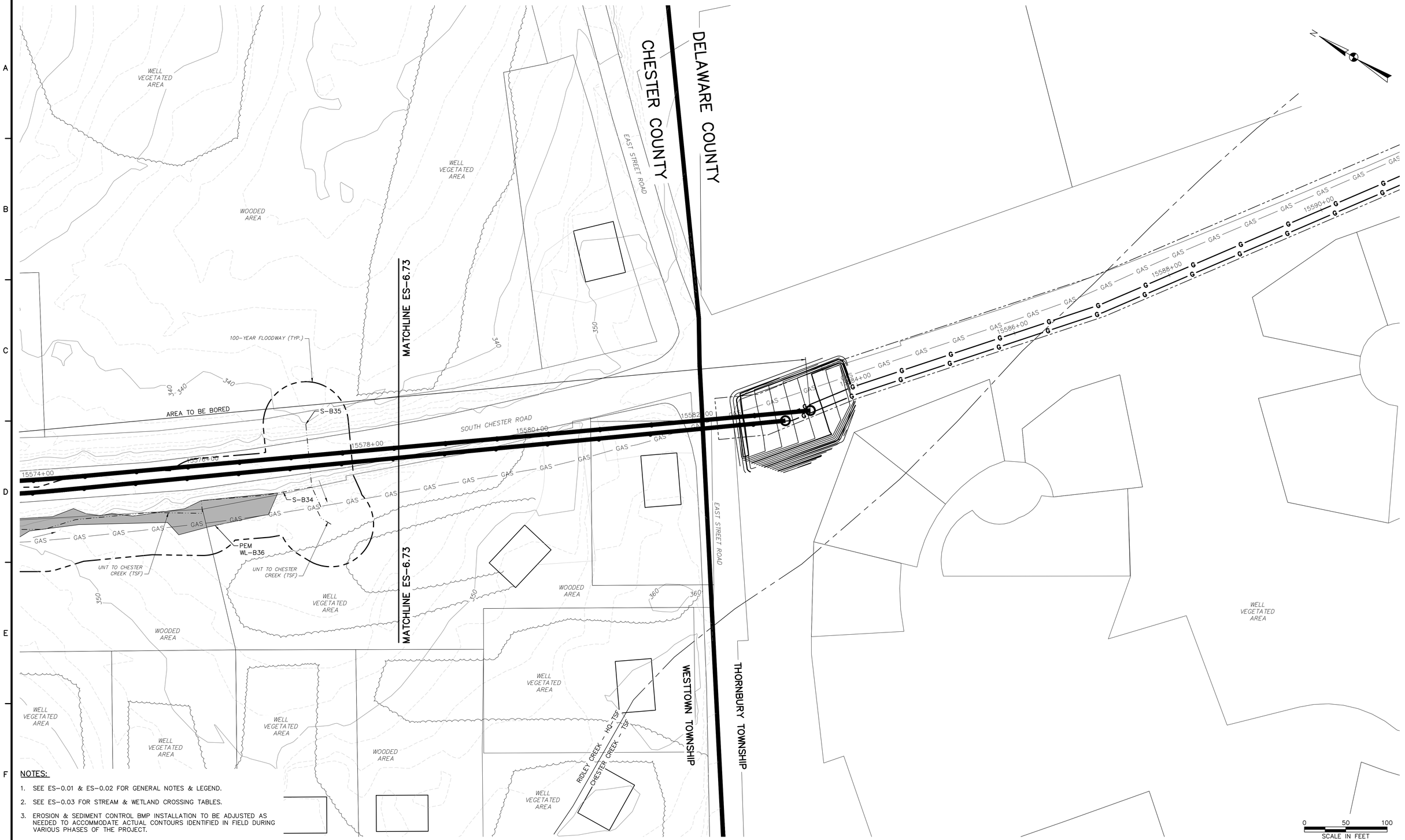

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CHESTER COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 74 OF 74

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