INDIANA COUNTY

CAMBRIA COUNTY

EAST WHEATFIELD TOWNSHIP

JACKSON TOWNSHIP

TEMPORARY EQUIPMENT CROSSING (TYP.)

TEMPORARY TIMBER MAT (TYP.)

SEE SHEETS S-074-A AND S-074-B FOR SITE SPECIFIC PLAN DRAWINGS

RIPARIAN FOREST BUFFER

EROSION CONTROL BLANKET (TYP.)

COMPOST FILTER SOCK (TYP.)

LIMIT OF DISTURBANCE

PERMANENT WATER BAR (TYP.)

TRENCH PLUGS (TYP.)

ORANGE CONSTRUCTION FENCE (TYP.)

100-YEAR FLOODWAY (TYP.)

UNT TO FINDLEY RUN (HQ-CWF)

WL-137

S-074

WOODED AREA

EXISTING TRAIL

MATCHLINE ES-2.02

MATCHLINE ES-2.02

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.
3. 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-050435-E

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 2

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

CAMBRIA COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 1 OF 75

DATE:	NOVEMBER 2016
PROJECT NO.:	112C05958
DESIGNED BY:	JB
DRAWN BY:	BH
CHECKED BY:	RS

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ES-2.01

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MATCHLINE ES-2.01

MATCHLINE ES-2.03

COMPOST FILTER SOCK (TYP.)

LIMIT OF DISTURBANCE

TEMPORARY SLOPE PIPE (TYP.)

EROSION CONTROL BLANKET (TYP.)

TEMPORARY EQUIPMENT CROSSING (TYP.)

RIPARIAN FOREST BUFFER

SEE SHEETS WL-139-A AND WL-139-B FOR SITE SPECIFIC PLANS

TEMPROARY TIMBER MAT (TYP.)

TEMPORARY WATER BAR (TYP.)

S-N62

S-N63

S-N64

WL-138

WL-139

WL-140

ORANGE CONSTRUCTION FENCE (TYP.)

SEE SHEETS WL-140-A AND WL-140-B FOR SITE SPECIFIC PLANS

TEMPORARY UPSLOPE DIVERSION BERM (TYP.)

TRENCH PLUGS (TYP.)

PERMANENT WATER BAR (TYP.)

100-YEAR FLOODWAY (TYP.)

UNT TO FINDLEY RUN (HQ-CWF)

WOODED AREA

WELL VEGETATED AREA

EXISTING TRAIL

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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SCALE IN FEET

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COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ENGINEER ROBERT F. SIMCIK

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 2

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

CAMBRIA COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 2 OF 75

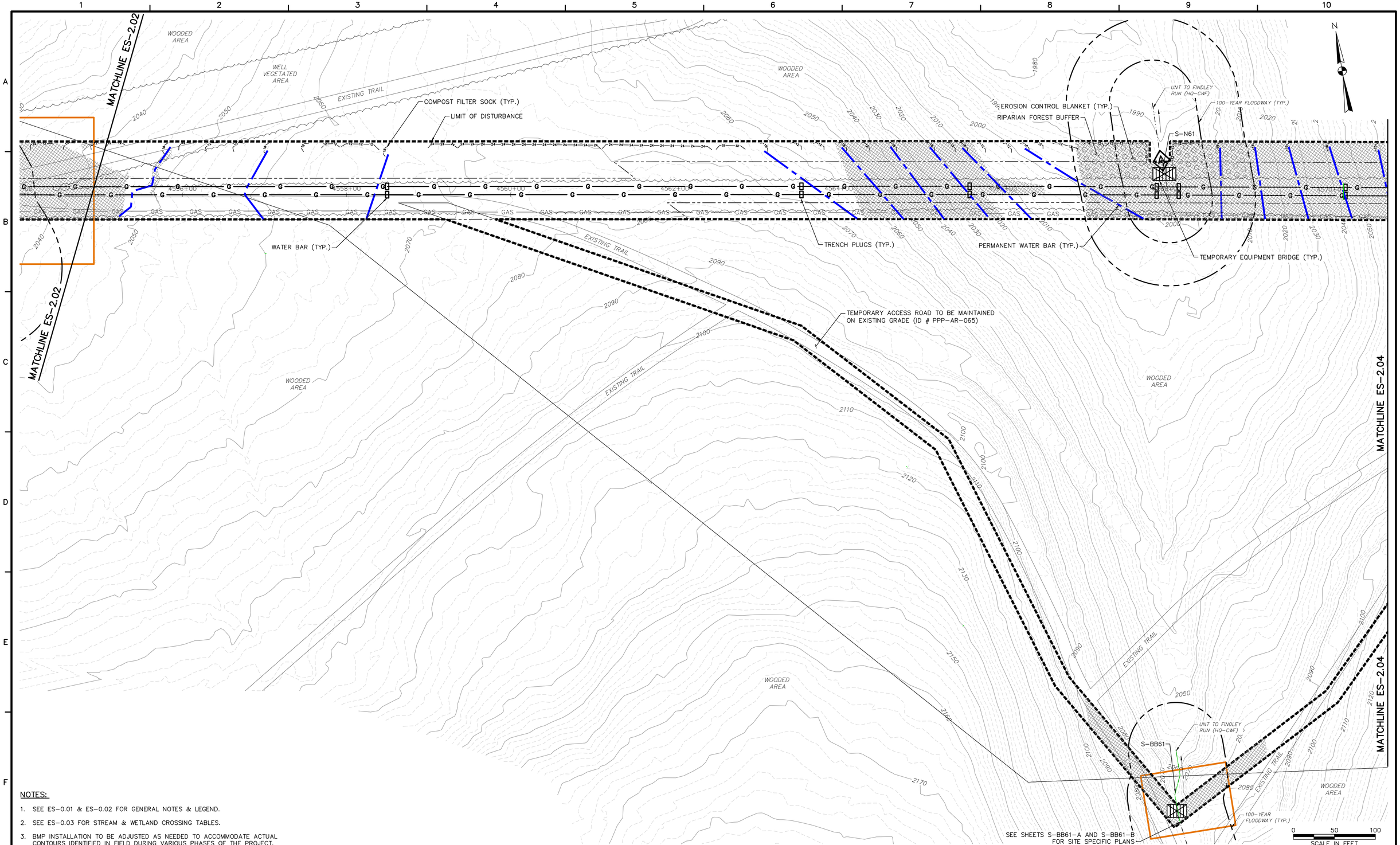
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NOTES:

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 — ROBERT F. SIMCIK — ENGINEER — PE-039435-E

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 2

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

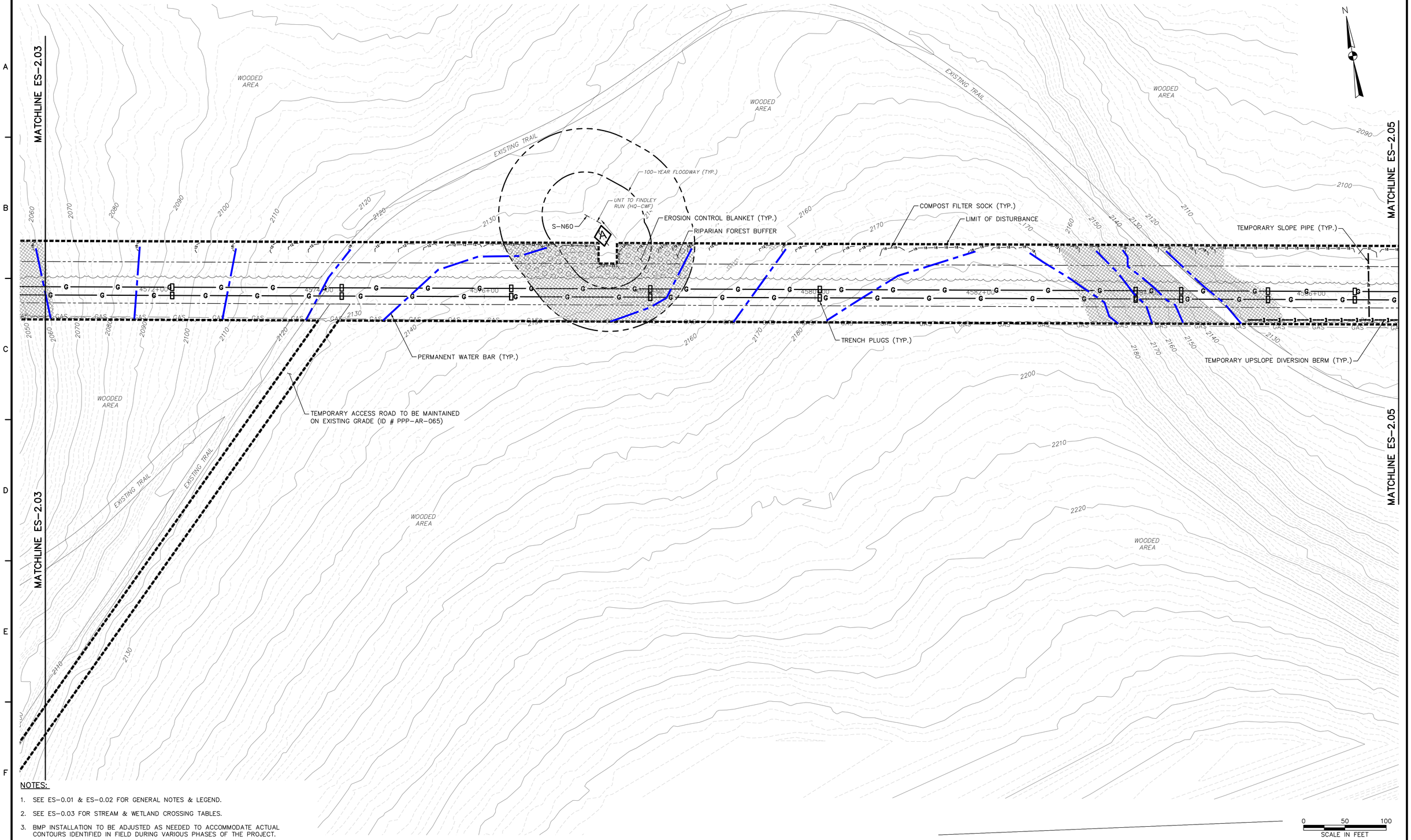
CAMBRIA COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 3 OF 75

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PROJECT NO.:	112C05958
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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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COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ROBERT F. SIMCIK ENGINEER PE 059435-E

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SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 2

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

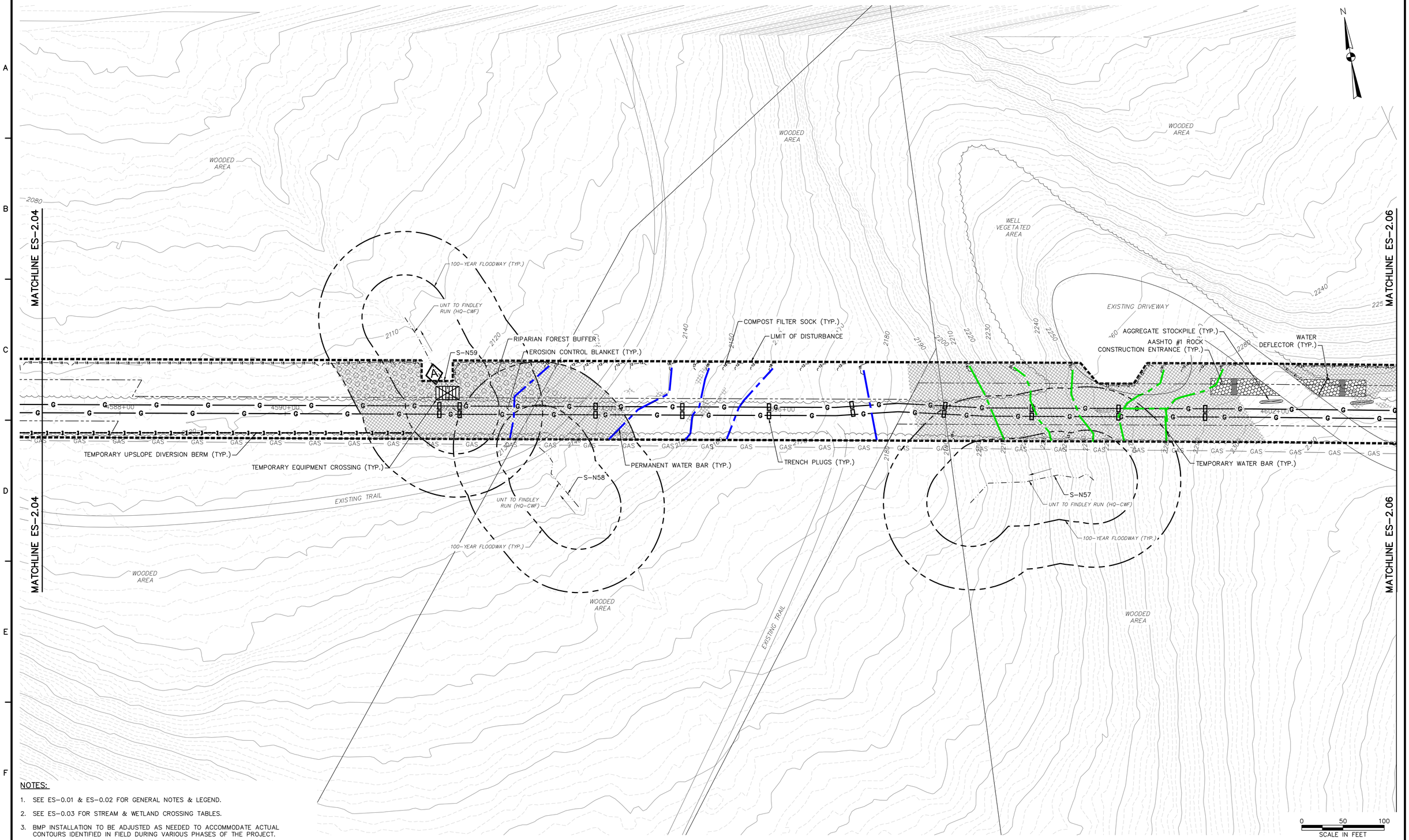
CAMBRIA COUNTY CONSERVATION DISTRICT
EROSION & SEDIMENT CONTROL &
SITE RESTORATION PLAN
SHEET 4 OF 75

DATE:	NOVEMBER 2016
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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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SUNOCO PIPELINE L.P.
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PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 2

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

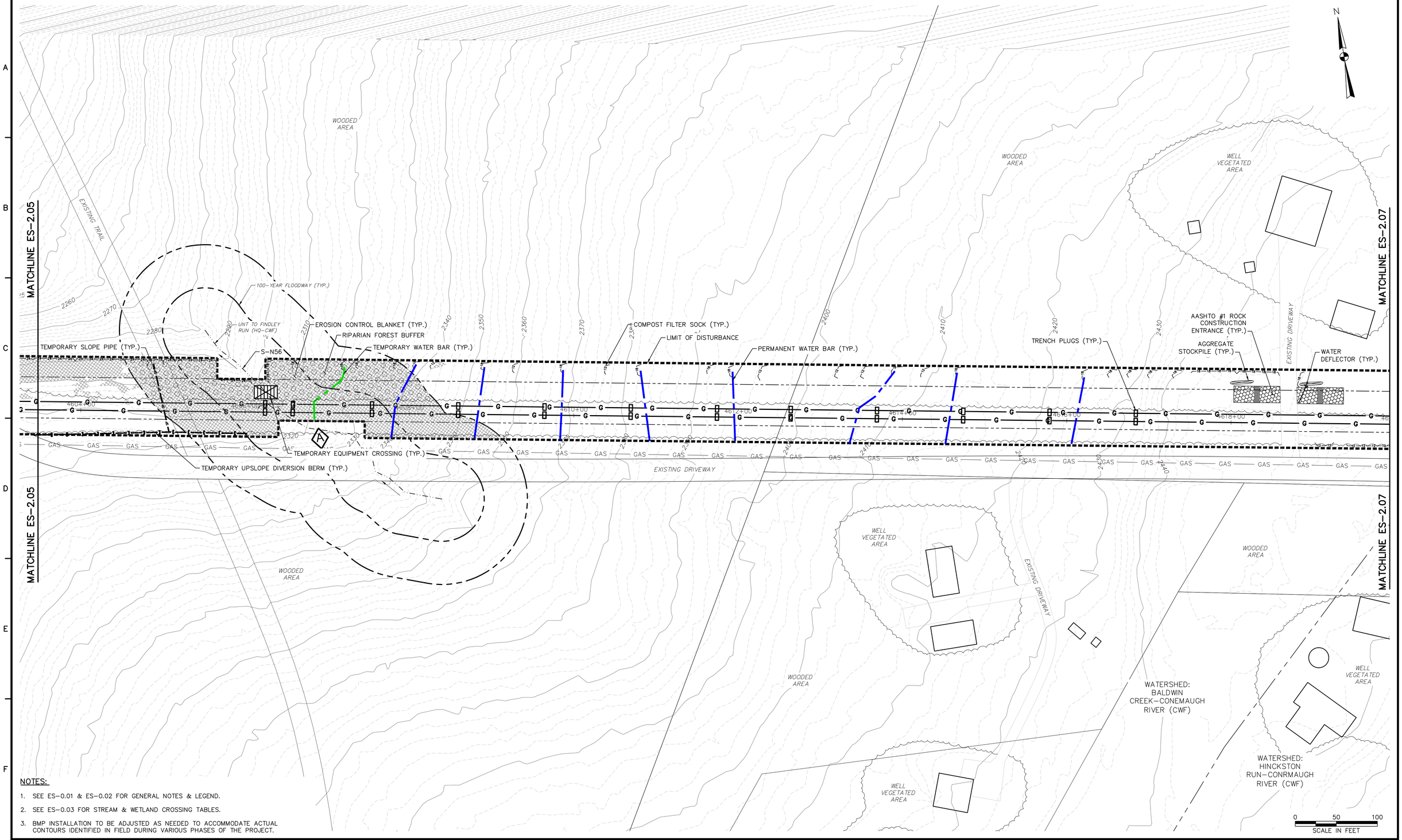
CAMBRIA COUNTY CONSERVATION DISTRICT
EROSION & SEDIMENT CONTROL &
SITE RESTORATION PLAN
SHEET 5 OF 75

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NOTES:

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2. SEE ES-0.03 FOR STREAM & WETLAND CROSSING TABLES.
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COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ENGINEER ROBERT F. SIMCIK

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 2

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

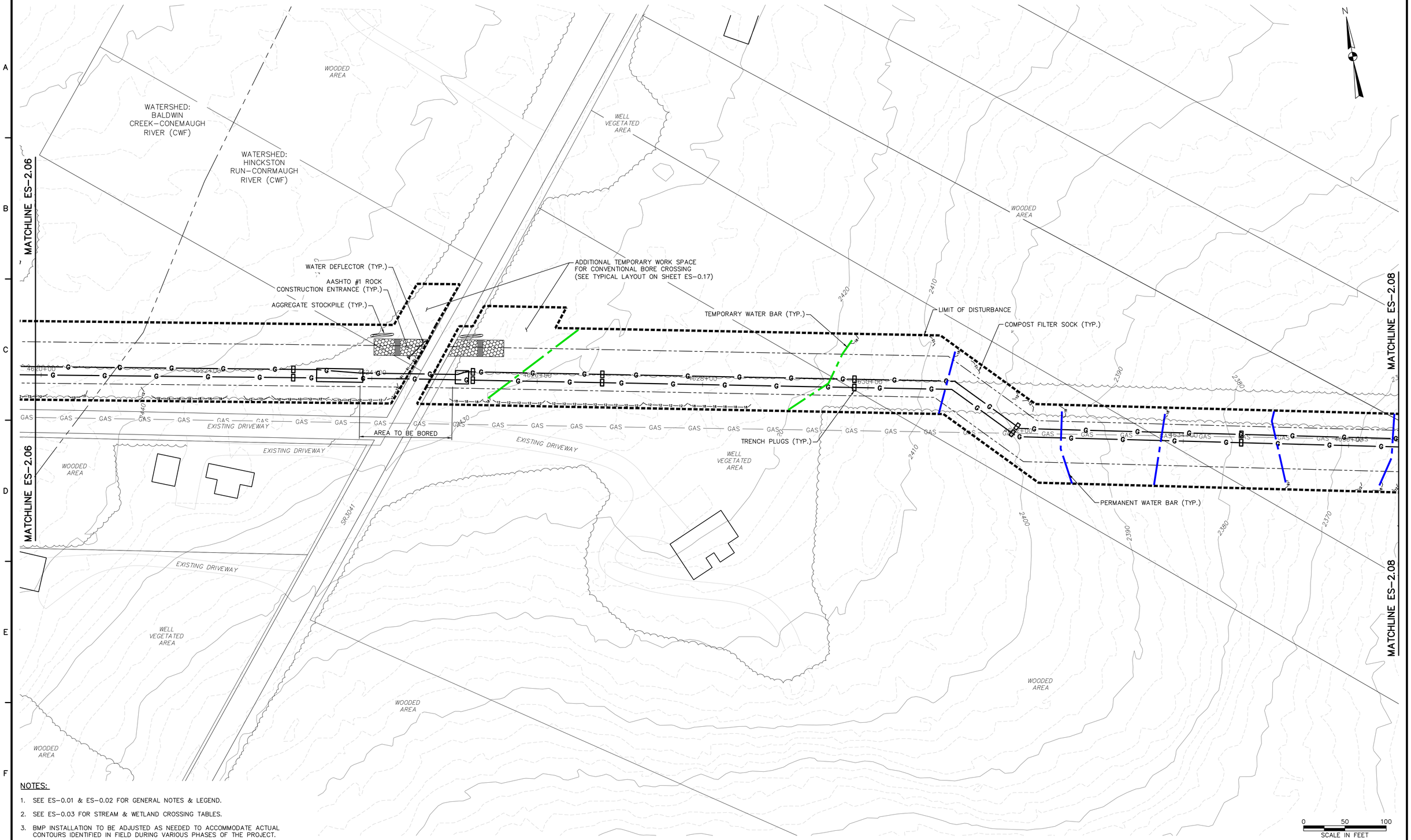
CAMBRIA COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 6 OF 75

DATE:	NOVEMBER 2016
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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. 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

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 2

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

CAMBRIA COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 7 OF 75

DATE:	NOVEMBER 2016
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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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NO.	BY	DATE	REMARKS

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ENGINEER ROBERT F. SIMCIK PE-059435-E

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 2

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

CAMBRIA COUNTY CONSERVATION DISTRICT
EROSION & SEDIMENT CONTROL &
SITE RESTORATION PLAN
SHEET 8 OF 75

DATE:	NOVEMBER 2016
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SEE MATCHLINE ES-2.09 THIS SHEET

SEE MATCHLINE ES-2.09 THIS SHEET

CONNECTS TO PAVED ACCESS ROAD CONNECTING TO SR 3041

EXISTING ACCESS ROAD

WELL VEGETATED AREA

WOODED AREA

SEE MATCHLINE ES-2.09 THIS SHEET

SEE MATCHLINE ES-2.09 THIS SHEET

WL-BB82

EXISTING ACCESS ROAD

EXISTING TEMPORARY ACCESS ROAD TO BE MAINTAINED ON EXISTING GRADE (ID # PPP-AR-066)

MATCHLINE ES-2.08

MATCHLINE ES-2.10

100-YEAR FLOODWAY (TYP.)

UNT TO LAUREL RUN (HQ-CWF)

LIMIT OF DISTURBANCE

WL-N33

SEE SHEETS WL-N33-A AND WL-N33-B FOR SITE SPECIFIC PLANS

ORANGE CONSTRUCTION FENCE (TYP.)

TEMPORARY EQUIPMENT CROSSING (TYP.)

EROSION CONTROL BLANKET (TYP.)

RIPARIAN FOREST BUFFER

TRENCH PLUGS (TYP.)

TEMPORARY WATER BAR (TYP.)

AGGREGATE STOCKPILE (TYP.)

AASHTO #1 ROCK CONSTRUCTION ENTRANCE (TYP.)

PERMANENT WATER BAR (TYP.)

COMPOST FILTER SOCK (TYP.)

S-N53

S-N54

S-N55

TEMPORARY TIMBER MAT (TYP.)

TEMPORARY UPSLOPE DIVERSION BERM (TYP.)

TEMPORARY SLOPE PIPE (TYP.)

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

WL-N32

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.
3. 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-030436-E

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 2

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

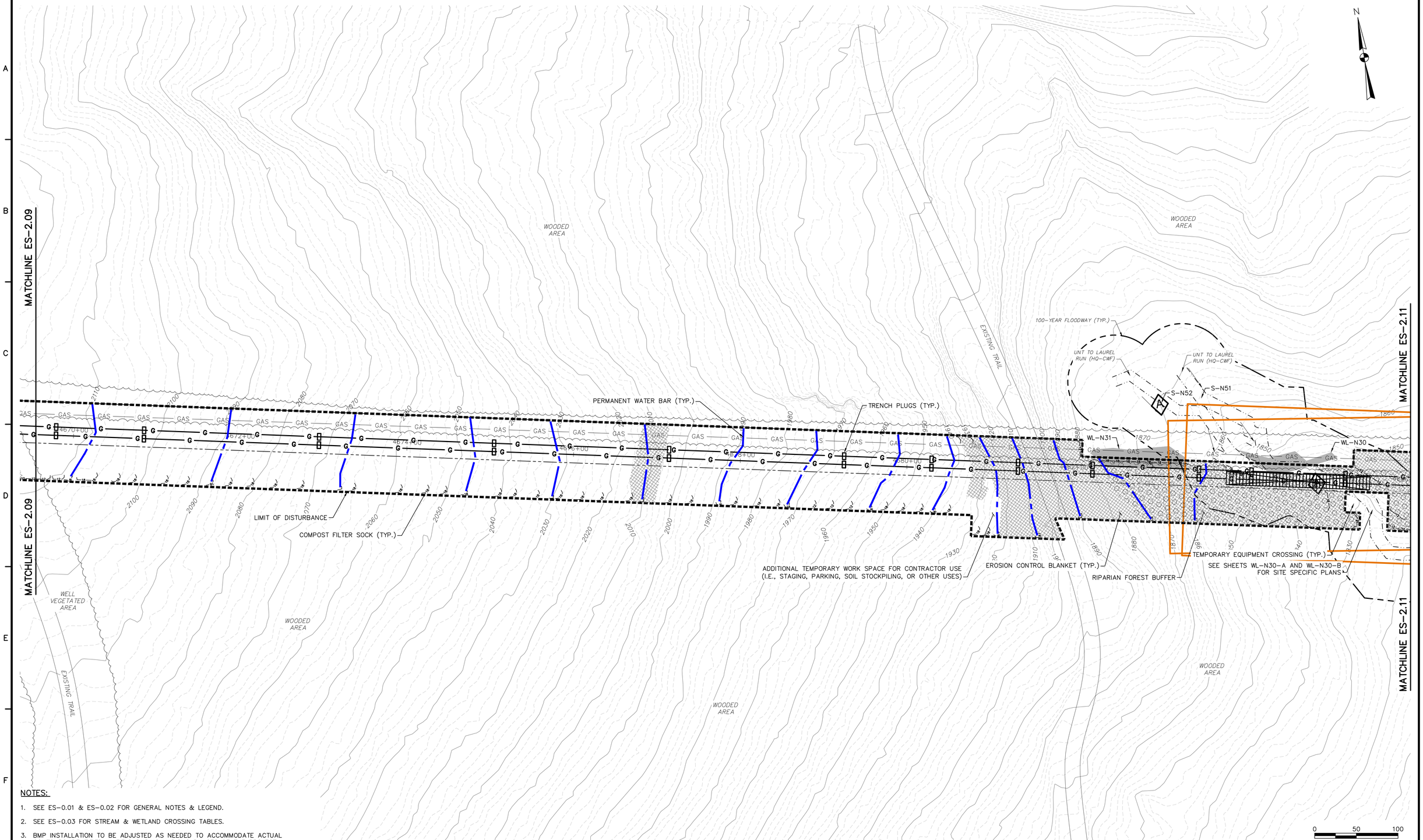
CAMBRIA COUNTY CONSERVATION DISTRICT
EROSION & SEDIMENT CONTROL &
SITE RESTORATION PLAN
SHEET 9 OF 75

DATE:	NOVEMBER 2016
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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 — ROBERT F. SIMCIK — ENGINEER — PE 059435-E

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 2

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

CAMBRIA COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 10 OF 75

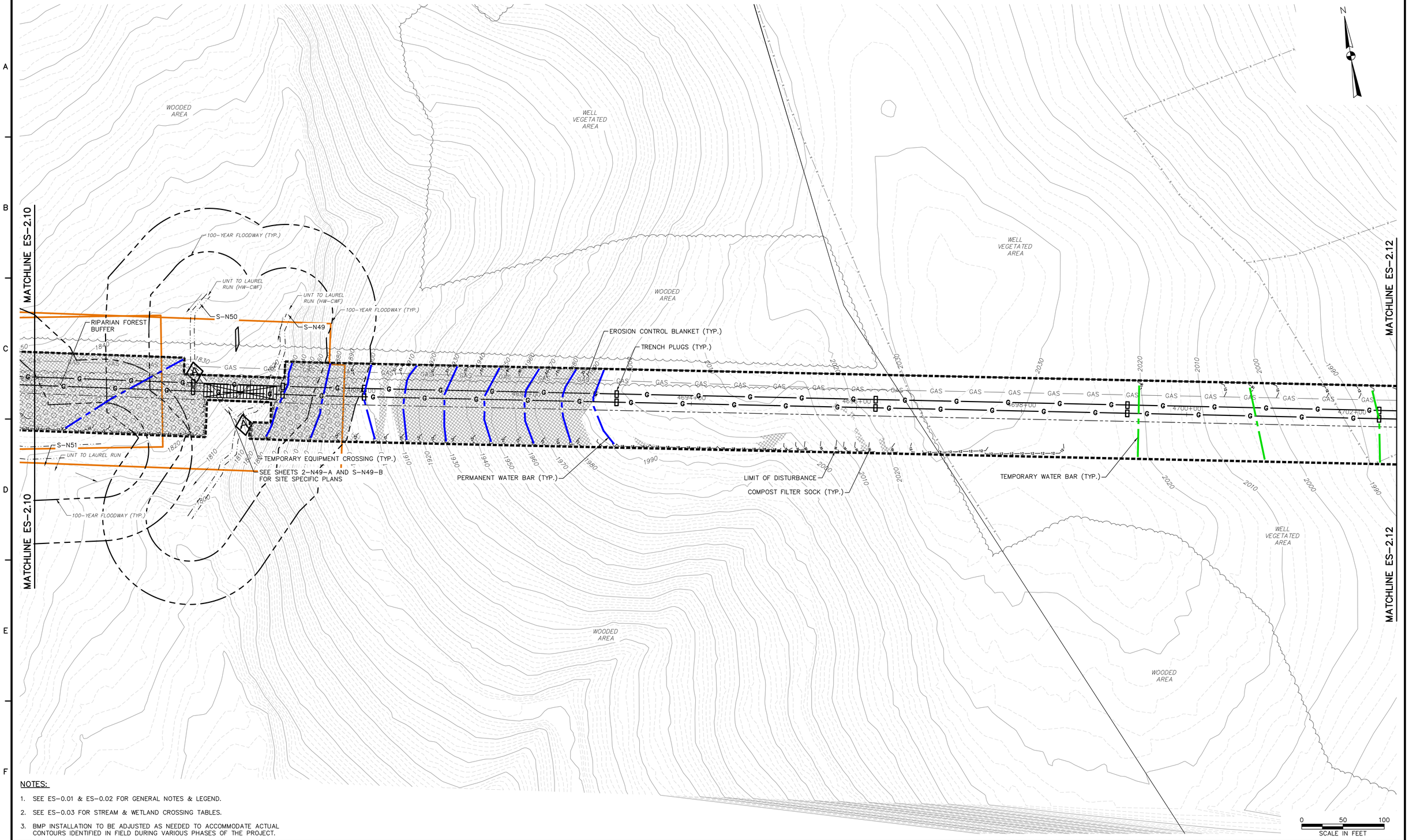
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NOTES:

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

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 2

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

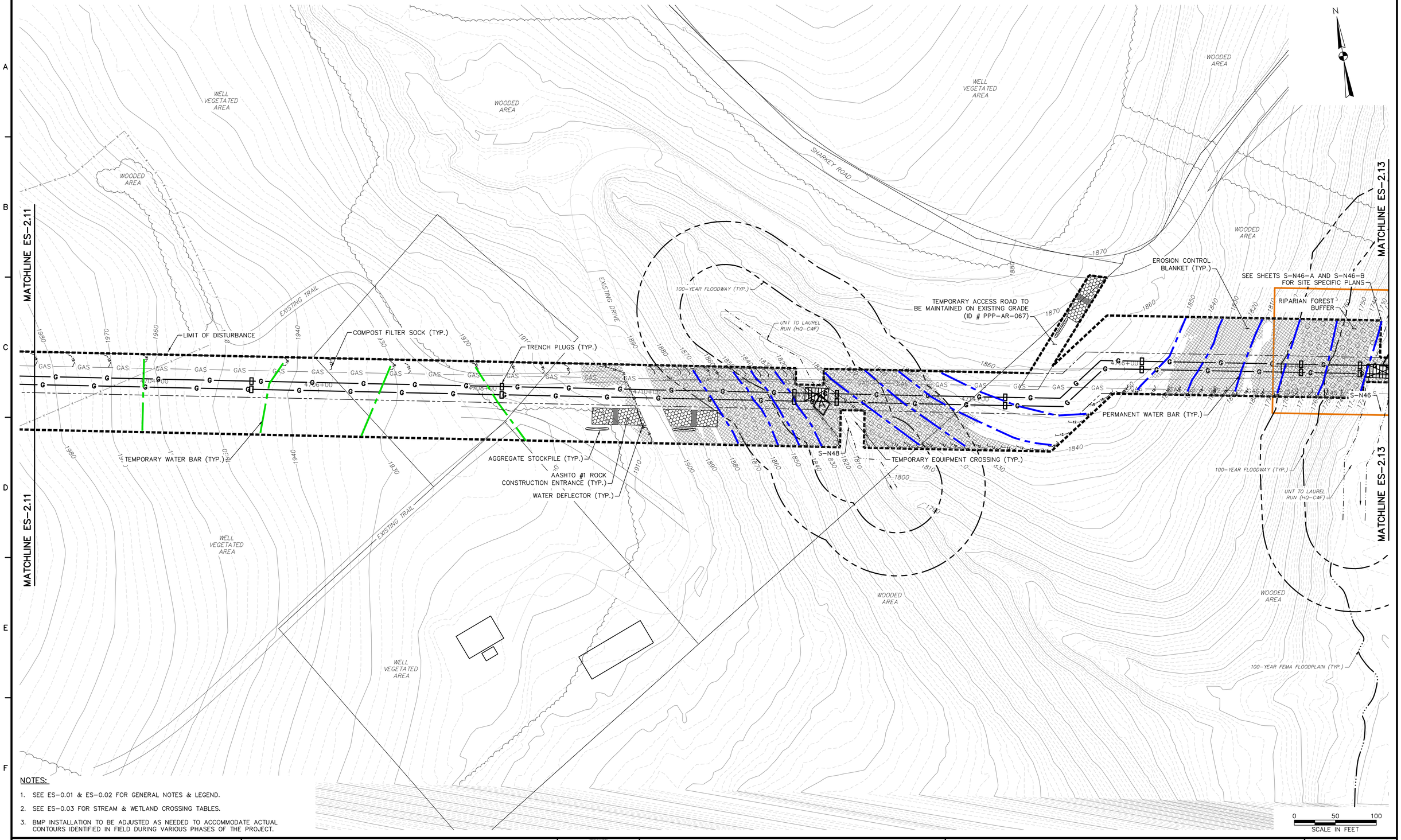
CAMBRIA COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 11 OF 75

DATE:	NOVEMBER 2016
PROJECT NO.:	112C05958
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NOTES:

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NO.	BY	DATE	REMARKS

COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL ENGINEER — ROBERT F. SIMCIK

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 2

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

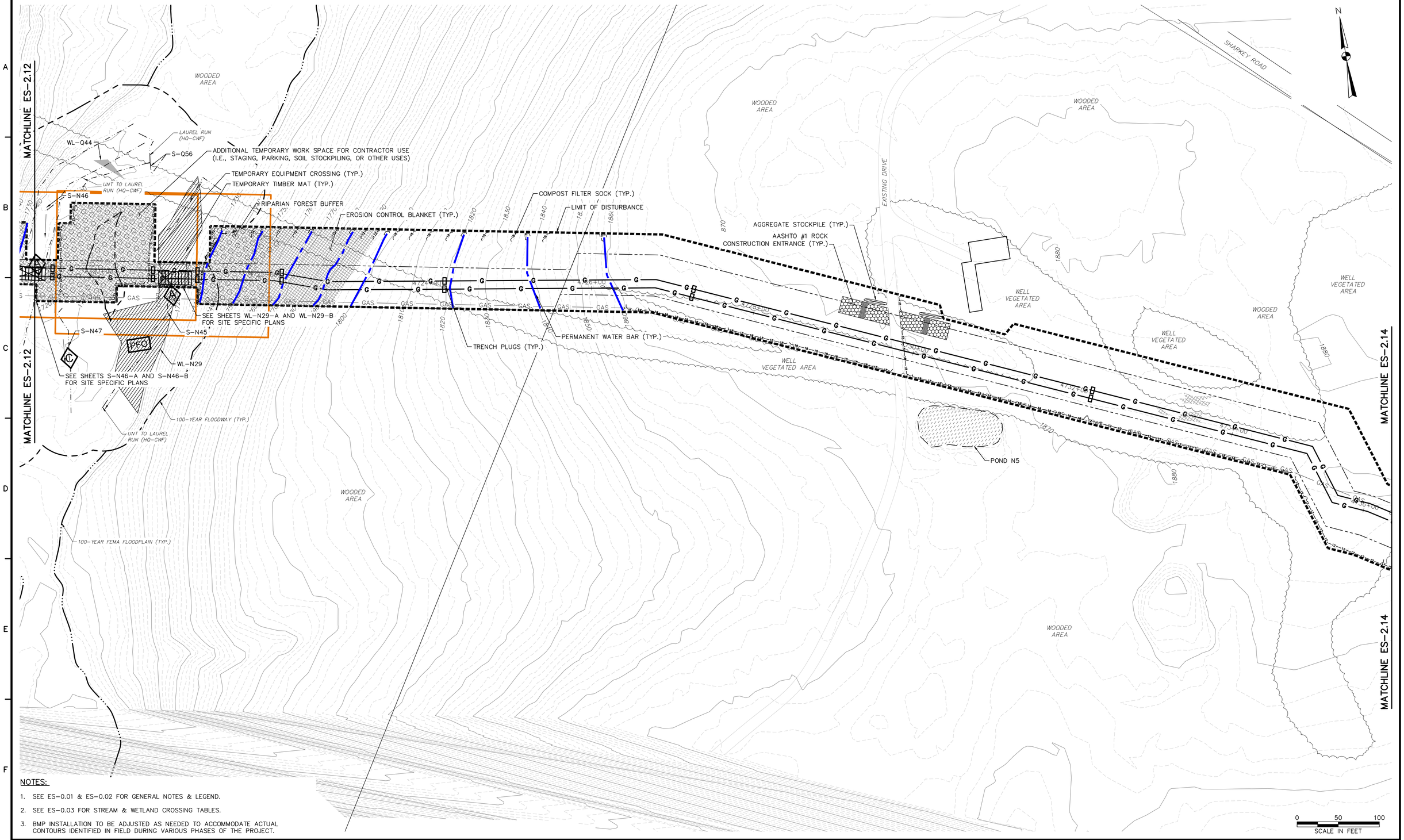
CAMBRIA COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 12 OF 75

DATE:	NOVEMBER 2016
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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

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 2

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

CAMBRIA COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 13 OF 75

DATE:	NOVEMBER 2016
PROJECT NO.:	112C05958
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MATCHLINE ES-2.13

MATCHLINE ES-2.15

PERMANENT WATER BAR (TYP.)

AREA TO BE BORED

TRENCH PLUGS (TYP.)

AGGREGATE STOCKPILE (TYP.)

AASHTO #1 ROCK CONSTRUCTION ENTRANCE (TYP.)

WATER DEFLECTOR (TYP.)

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

TEMPORARY WATER BAR (TYP.)

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

UNT TO HINCKSTON RUN (CWF)

100-YEAR FLOODWAY (TYP.)

S-N43

COMPOST FILTER SOCK (TYP.)

TEMPORARY WATER BAR (TYP.)

EROSION CONTROL BLANKET (TYP.)

LIMIT OF DISTURBANCE

APPROXIMATE DISCHARGE LOCATION
LAT: N40° 25' 01.20"
LON: W78° 52' 35.44"
OUTFALL 054

FLOW DIRECTION TOWARD UNT TO HINCKSTON RUN (CWF)

CONTRACTOR TO INSTALL HAY BALE STRUCTURES IN THIS AREA TO ALLOW FOR DISCHARGE OF HYDROSTATIC TEST WATERS. INSTALLATION AND OPERATION OF STRUCTURES WILL FOLLOW BEST MANAGEMENT PRACTICES. SEE DETAILS 18 AND 19.

AREA TO BE BORED

TIMBER MAT (TYP.)

TEMPORARY GRADING TO ACCOMMODATE HDD ACTIVITIES

WL-N27

ROW - TRAVEL LOD

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

WELL VEGETATED AREA

WOODED AREA

SR3039

NOTES:

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

0 50 100
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REVISIONS

NO.	BY	DATE	REMARKS

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

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 2

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

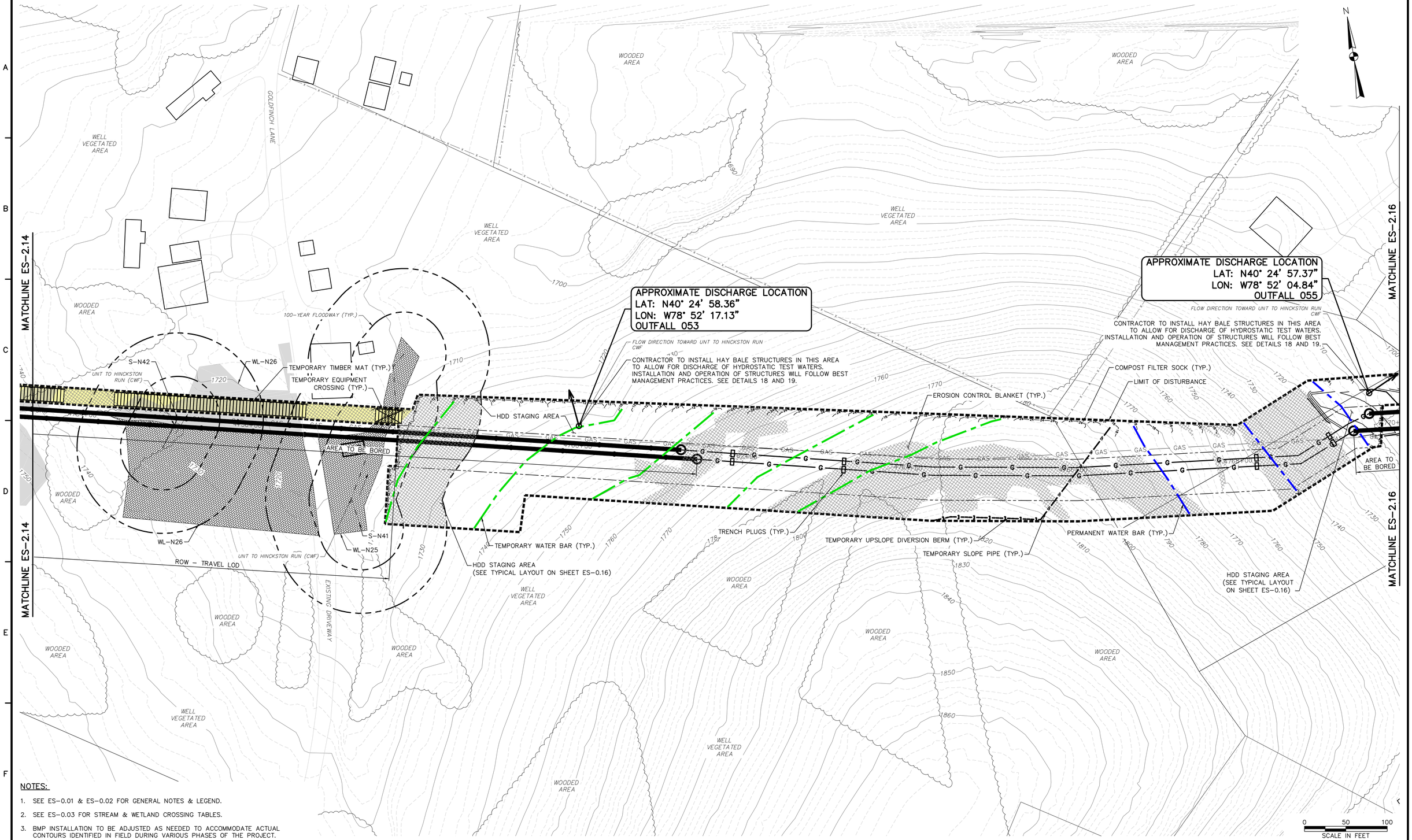
CAMBRIA COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 14 OF 75

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NOTES:

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2. SEE ES-0.03 FOR STREAM & WETLAND CROSSING TABLES.
3. 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-050435-E

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 2

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

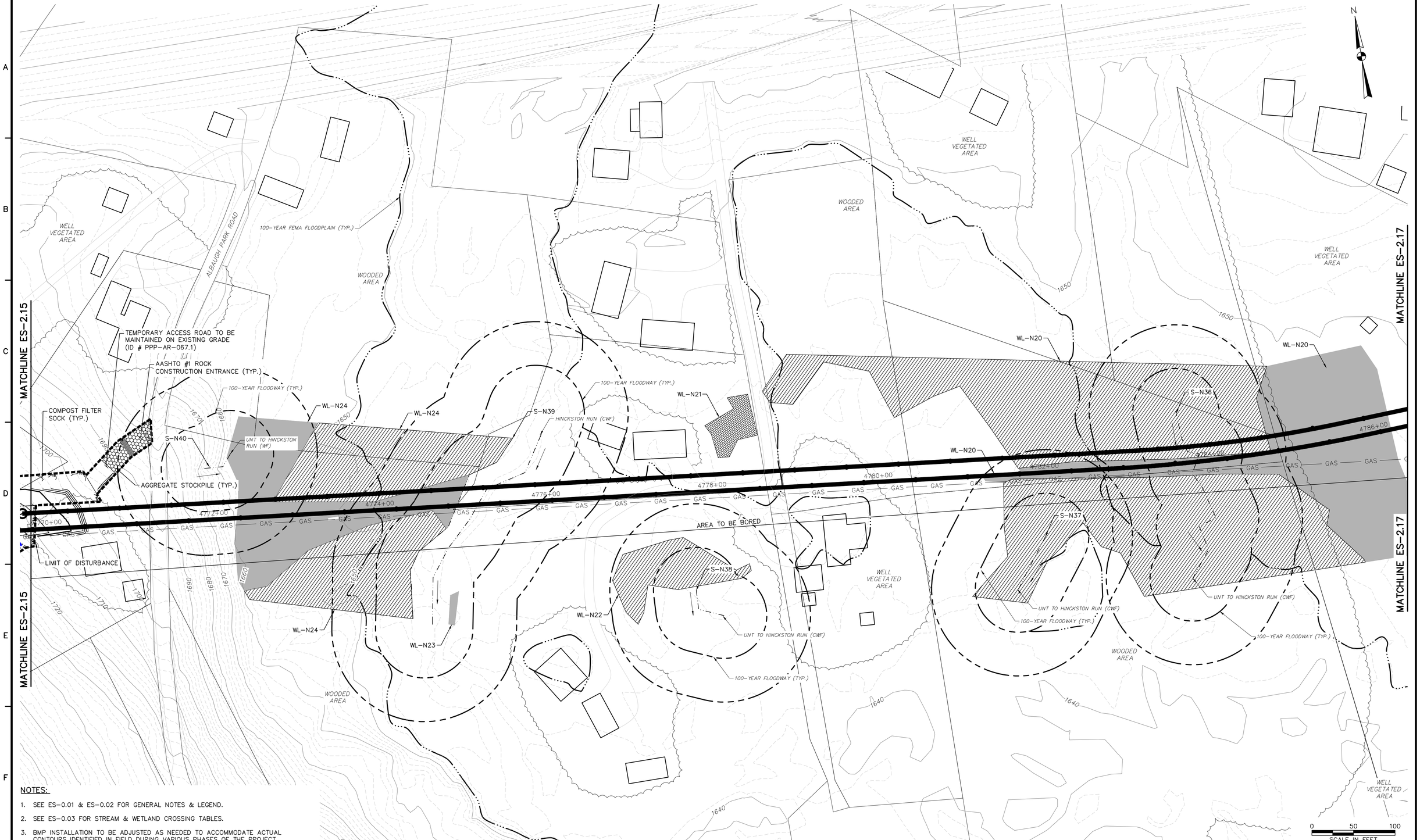
CAMBRIA COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 15 OF 75

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NOTES:

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COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL — ROBERT F. SIMCIK — ENGINEER — PE-030436-E

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 2

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

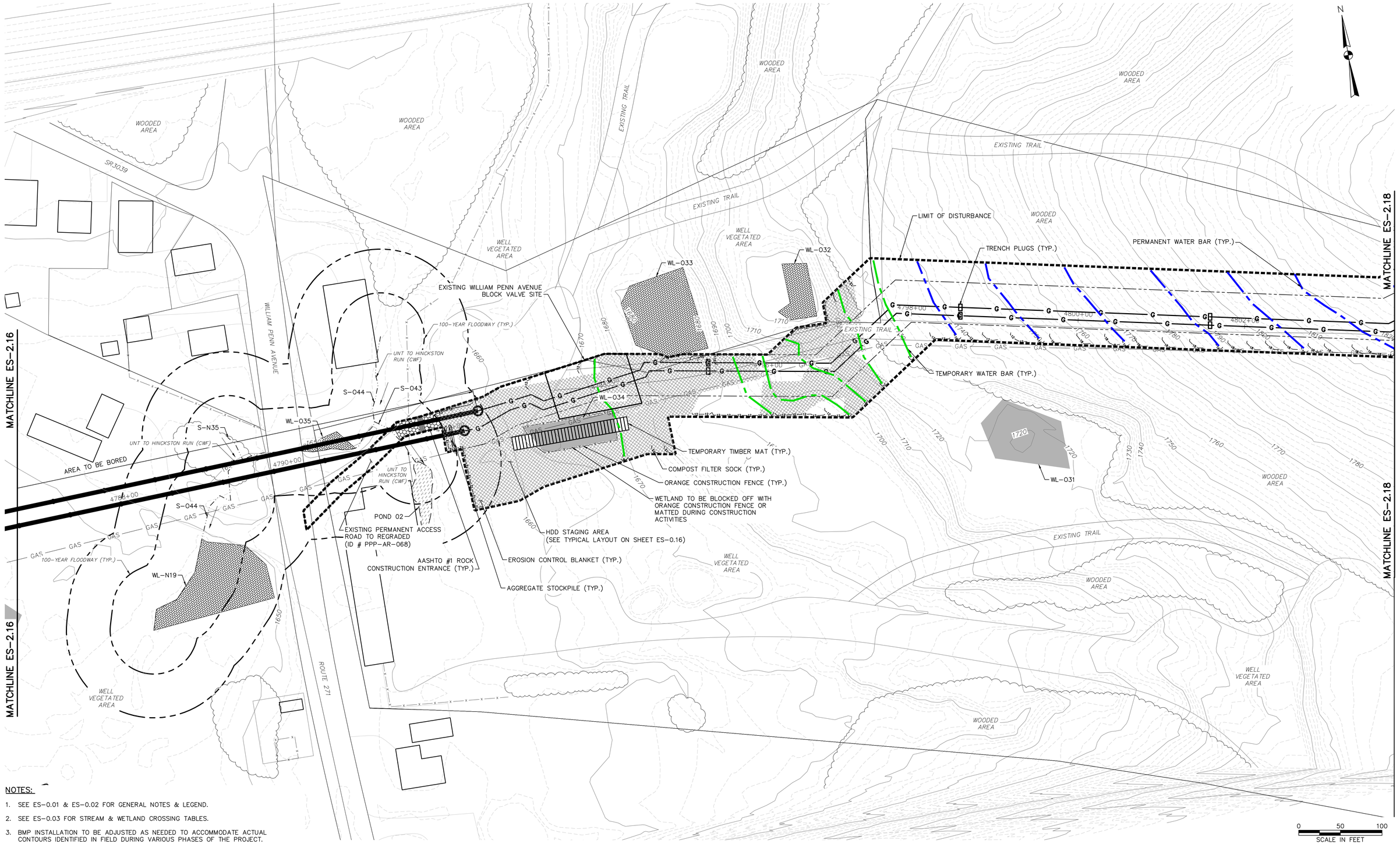
CAMBRIA COUNTY CONSERVATION DISTRICT
EROSION & SEDIMENT CONTROL &
SITE RESTORATION PLAN
SHEET 16 OF 75

DATE:	NOVEMBER 2016
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COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ROBERT F. SIMCIK ENGINEER PE-059435-E

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 2

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

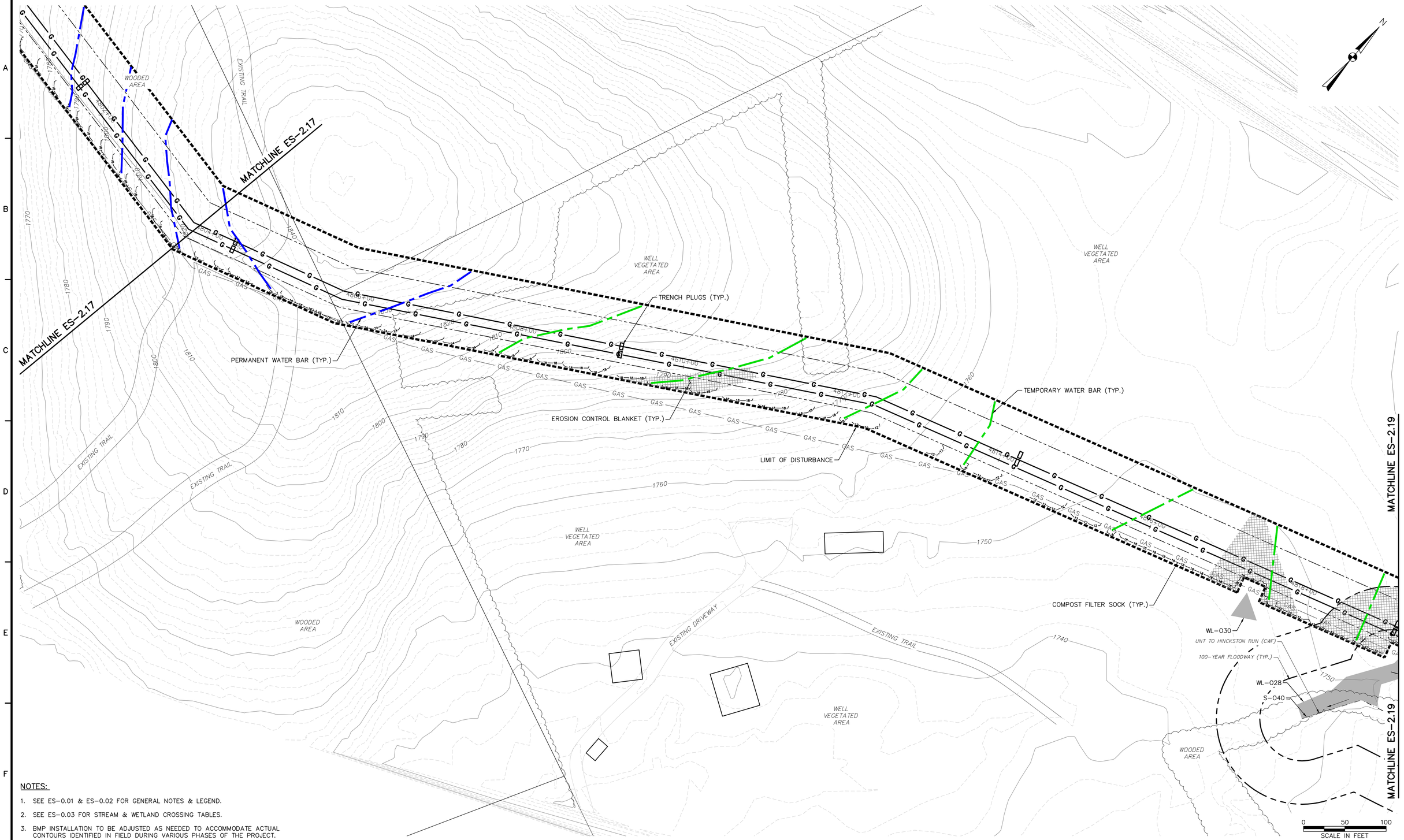
CAMBRIA COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 17 OF 75

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ROBERT F. SIMCIK
ENGINEER
PE 059635 E

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT
CONSTRUCTION SPREAD 2

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

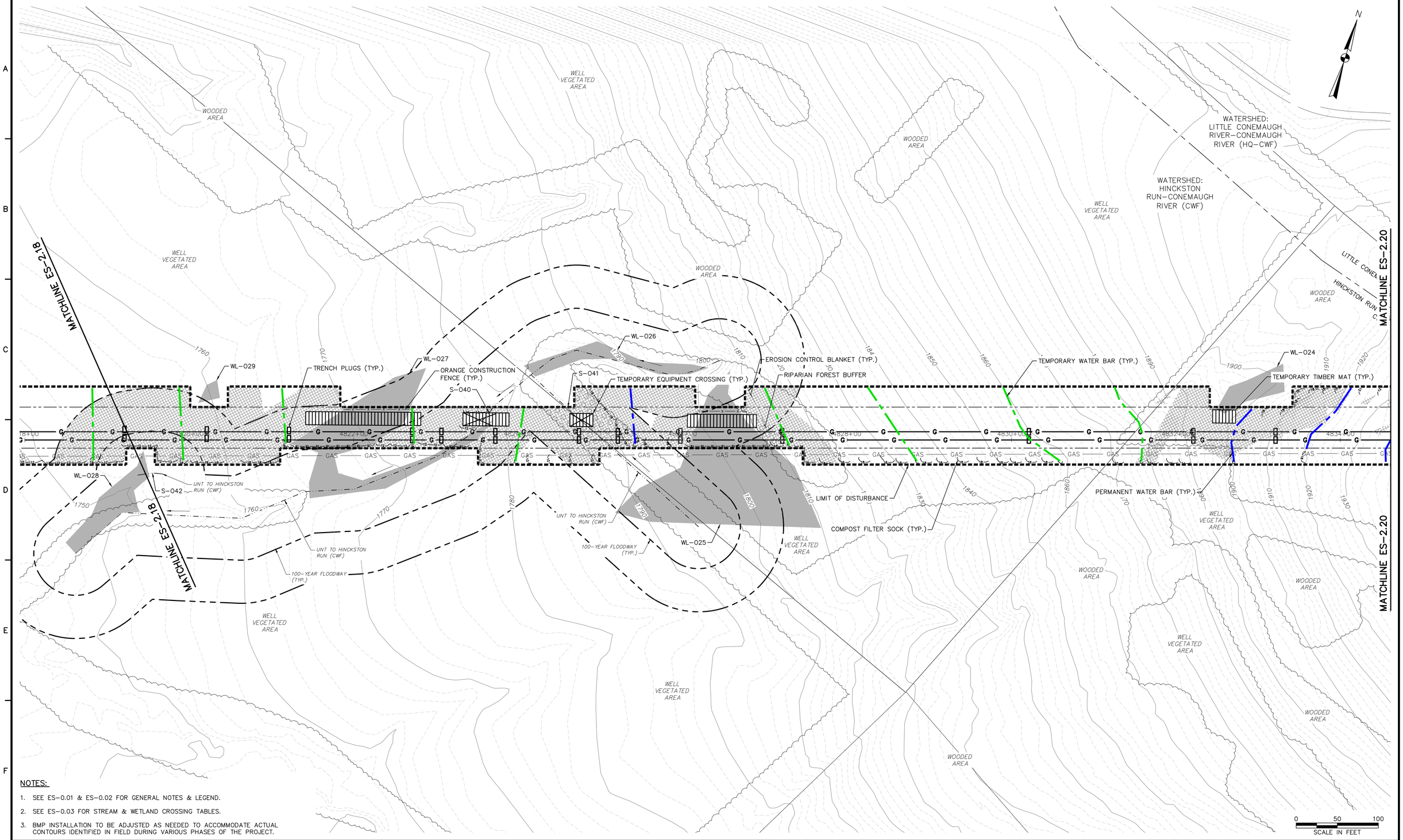
CAMBRIA COUNTY CONSERVATION DISTRICT
EROSION & SEDIMENT CONTROL &
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SHEET 18 OF 75

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PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 2

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

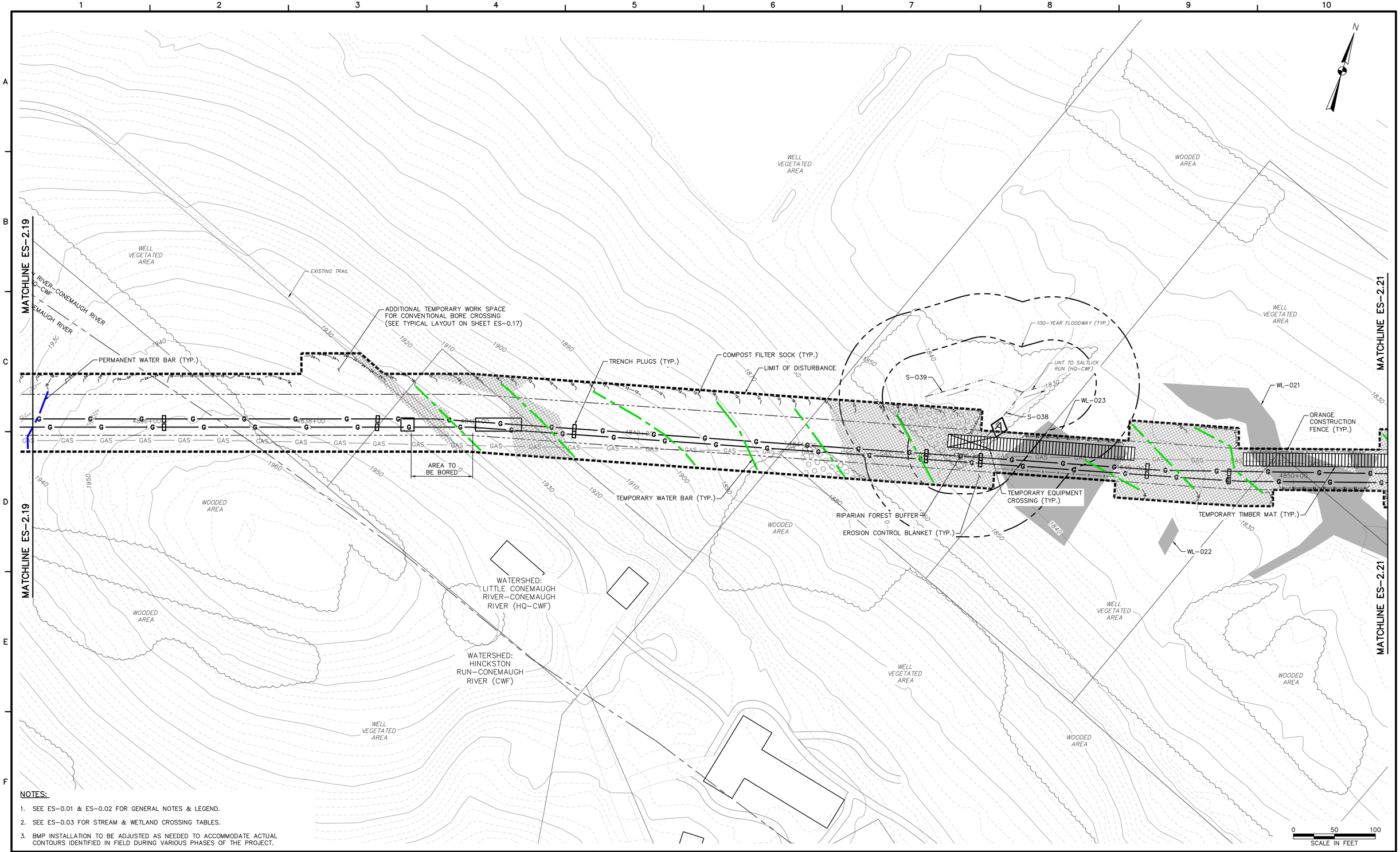
CAMBRIA COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 19 OF 75

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SUNOCO PIPELINE L.P.
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PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 2

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

CAMBRIA COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 20 OF 75

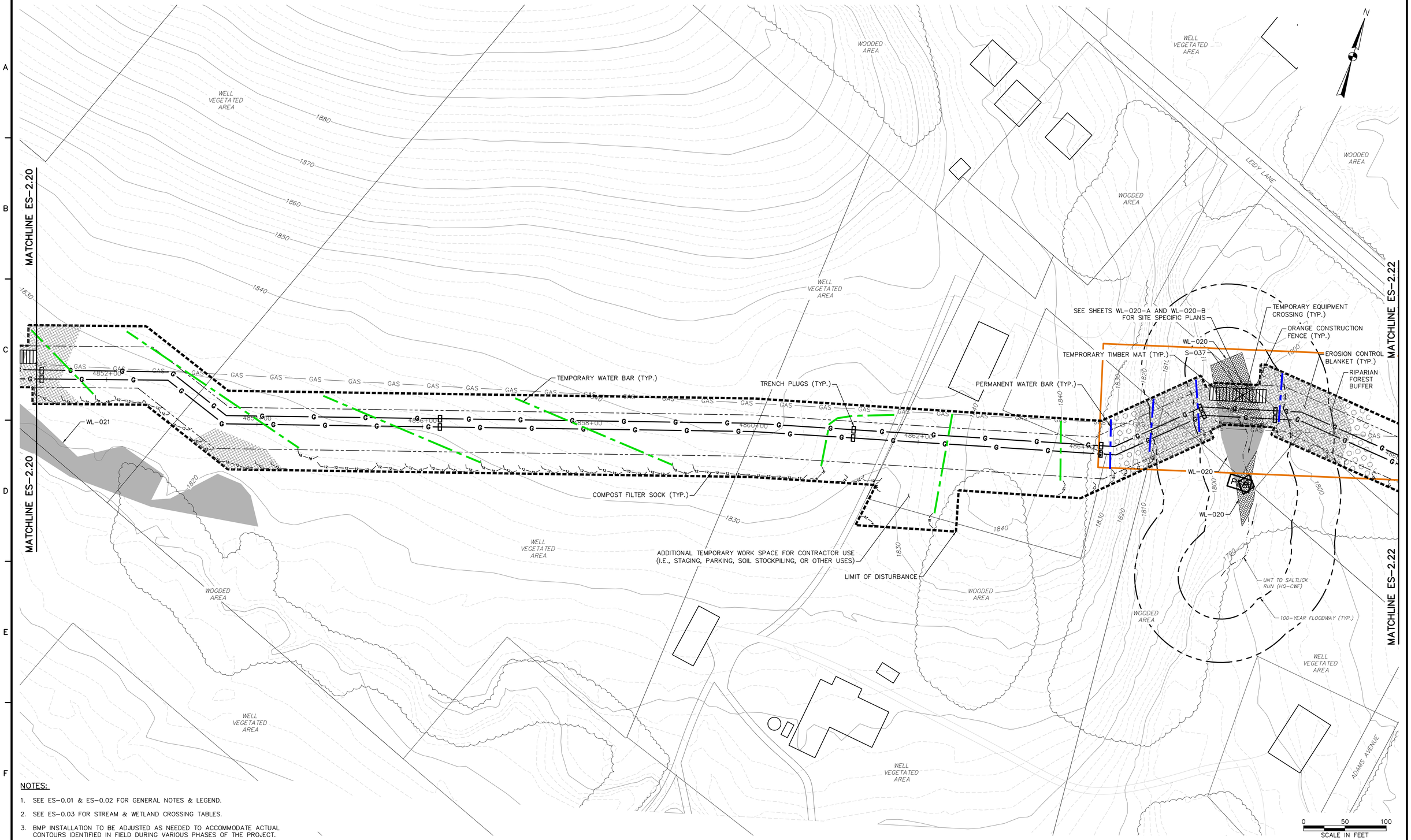
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NOTES:

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SUNOCO PIPELINE L.P.
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PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 2

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

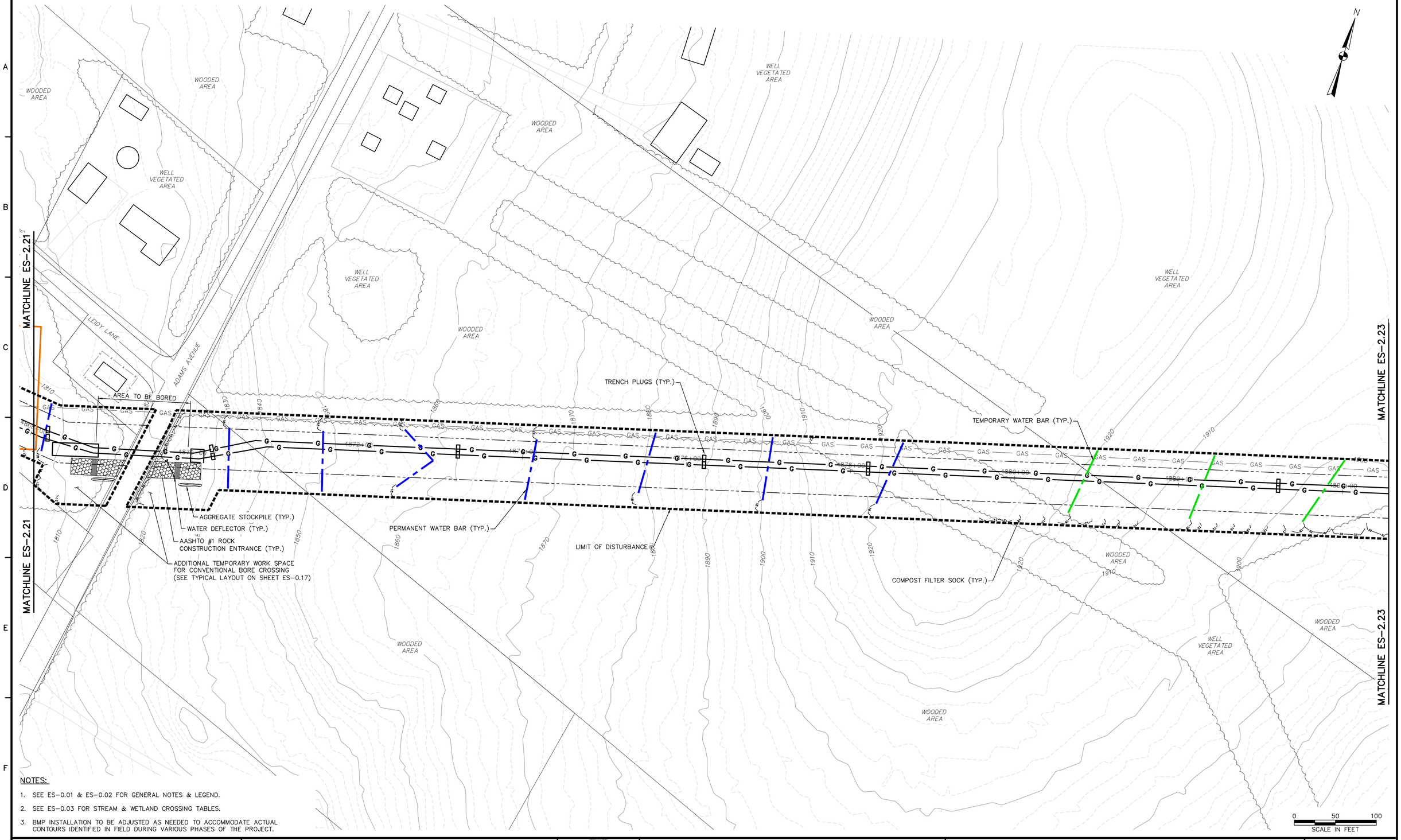
CAMBRIA COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 21 OF 75

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PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 2

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

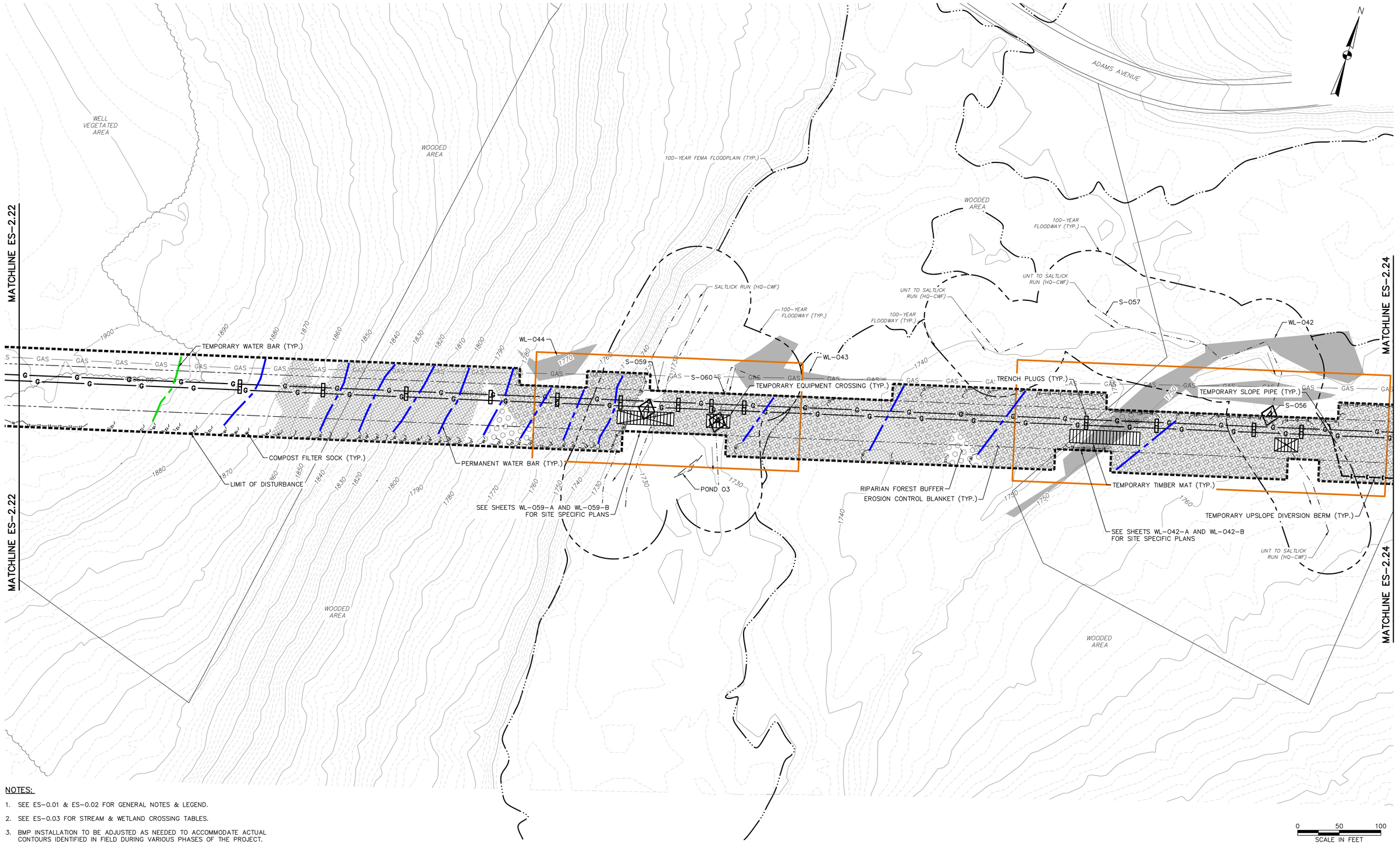
CAMBRIA COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 22 OF 75

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

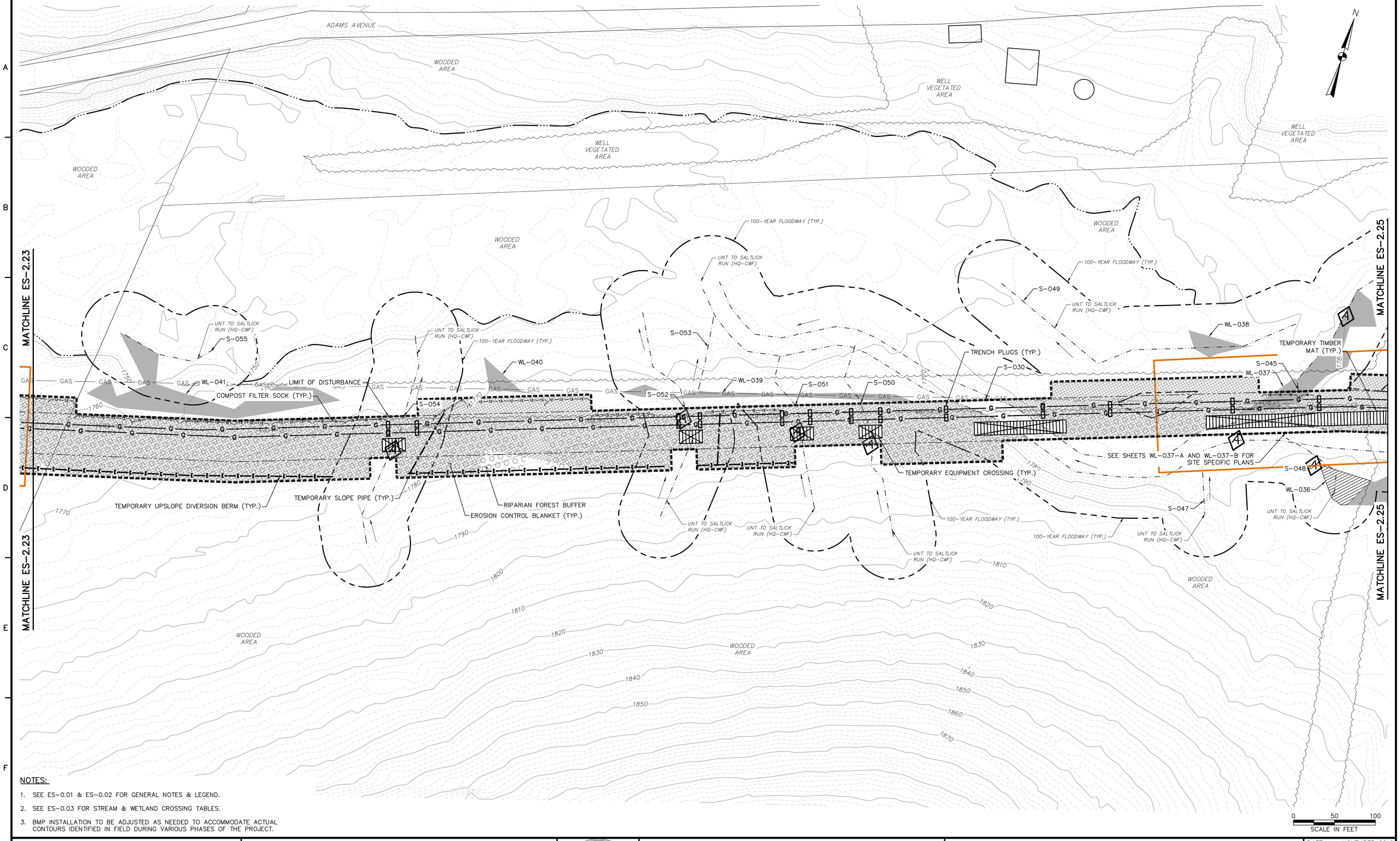
CAMBRIA COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 23 OF 75

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SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 2

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

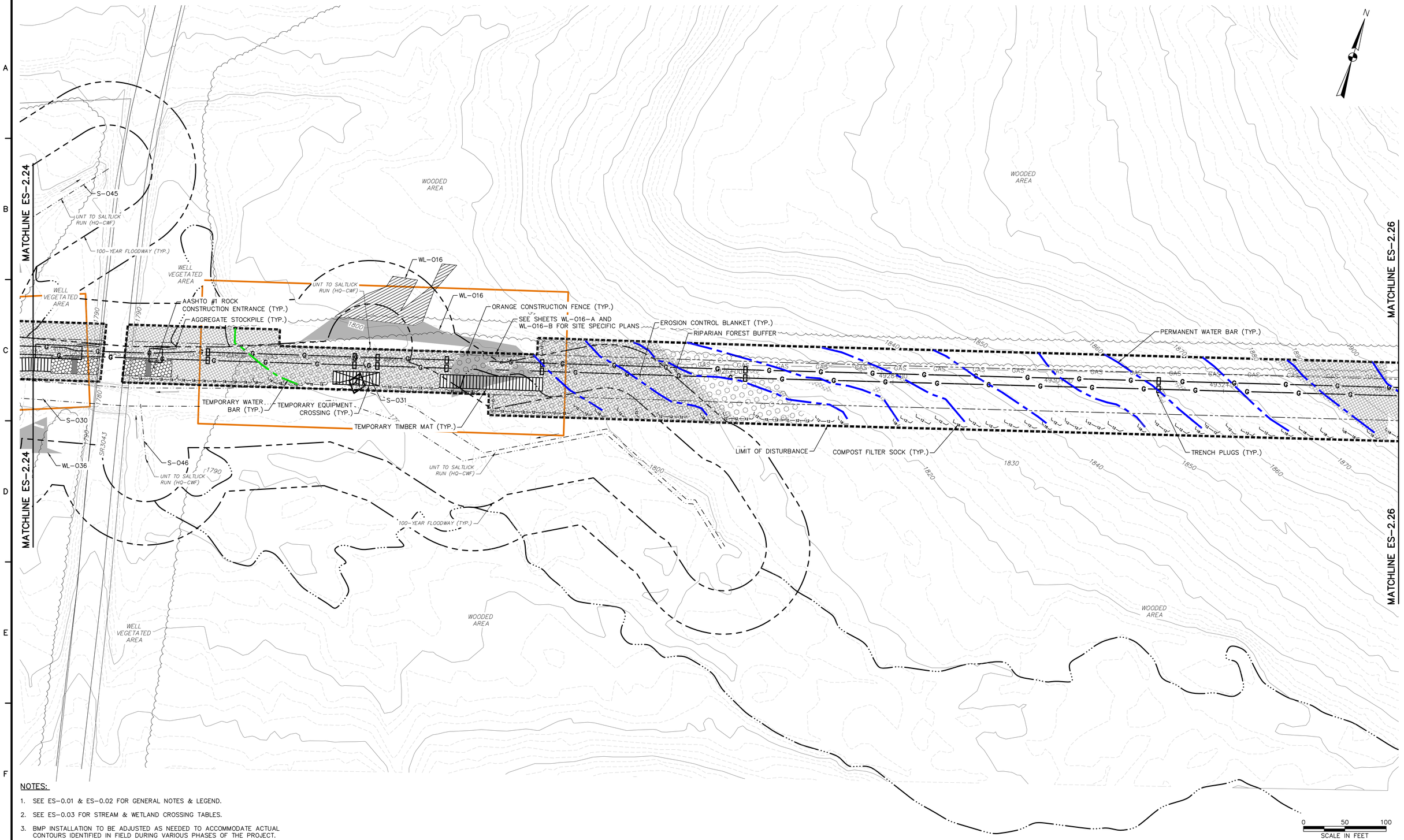
CAMBRIA COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 24 OF 75

DATE:	NOVEMBER 2016
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SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 2

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

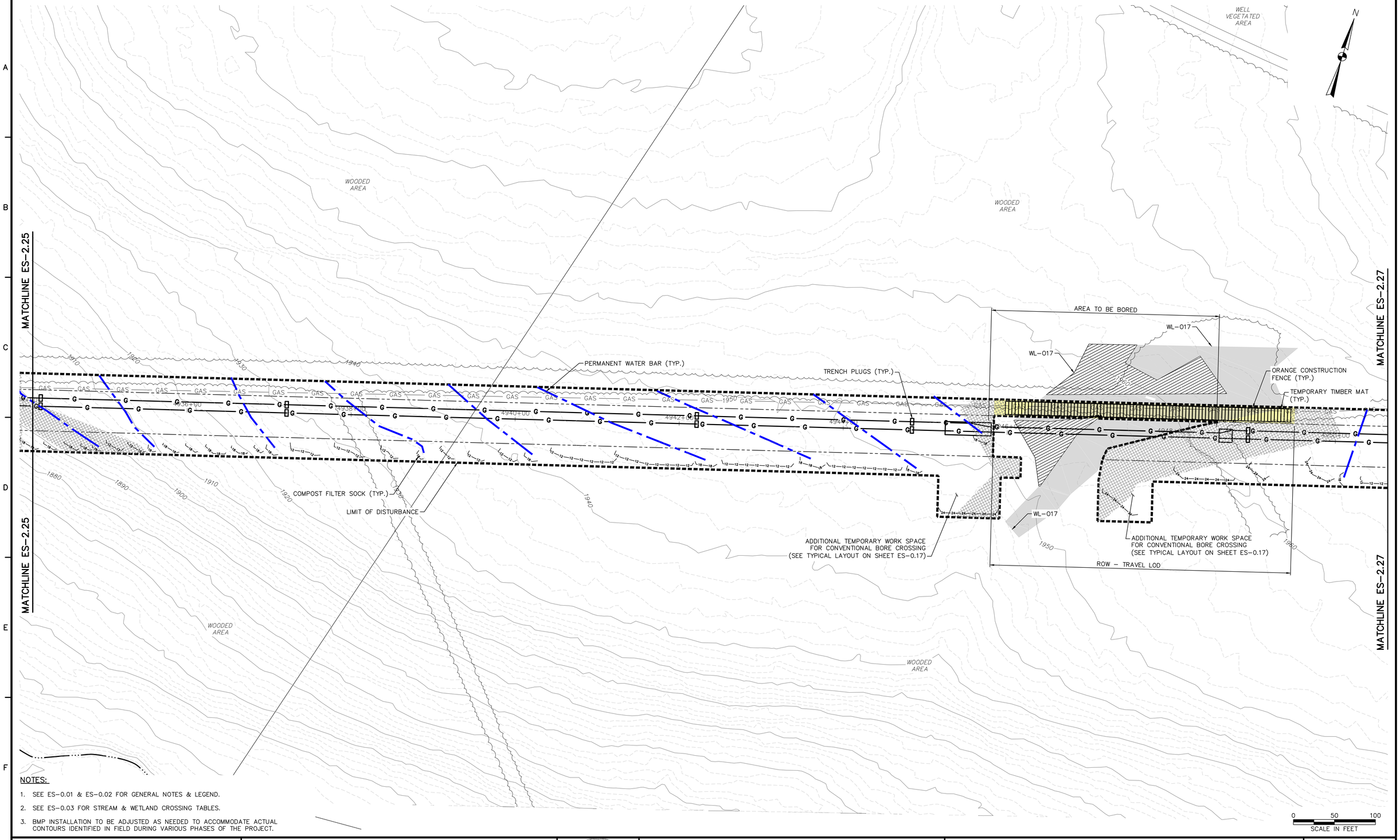
CAMBRIA COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 25 OF 75

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SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 2

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

CAMBRIA COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 26 OF 75

DATE:	NOVEMBER 2016
PROJECT NO.:	112C05958
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ES-2.26
SHEET 2.26 OF 102

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MATCHLINE ES-2.26

MATCHLINE ES-2.28

N

EXISTING TRAIL

WELL VEGETATED AREA

WOODED AREA

RIPARIAN FOREST BUFFER

EROSION CONTROL BLANKET (TYP.)

TEMPORARY WATER BAR (TYP.)

TRENCH PLUGS (TYP.)

LIMIT OF DISTURBANCE

PERMANENT WATER BAR (TYP.)

COMPOST FILTER SOCK (TYP.)

TEMPORARY TIMBER MAT (TYP.)

TEMPORARY EQUIPMENT CROSSING (TYP.)

S-033

UNT TO SALTLICK RUN (HQ-CWF)

100-YEAR FLOODWAY (TYP.)

GAS

G

NOTES:

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

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NO.	BY	DATE	REMARKS

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ENGINEER ROBERT F. SIMCIK PE-035408-E

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 2

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

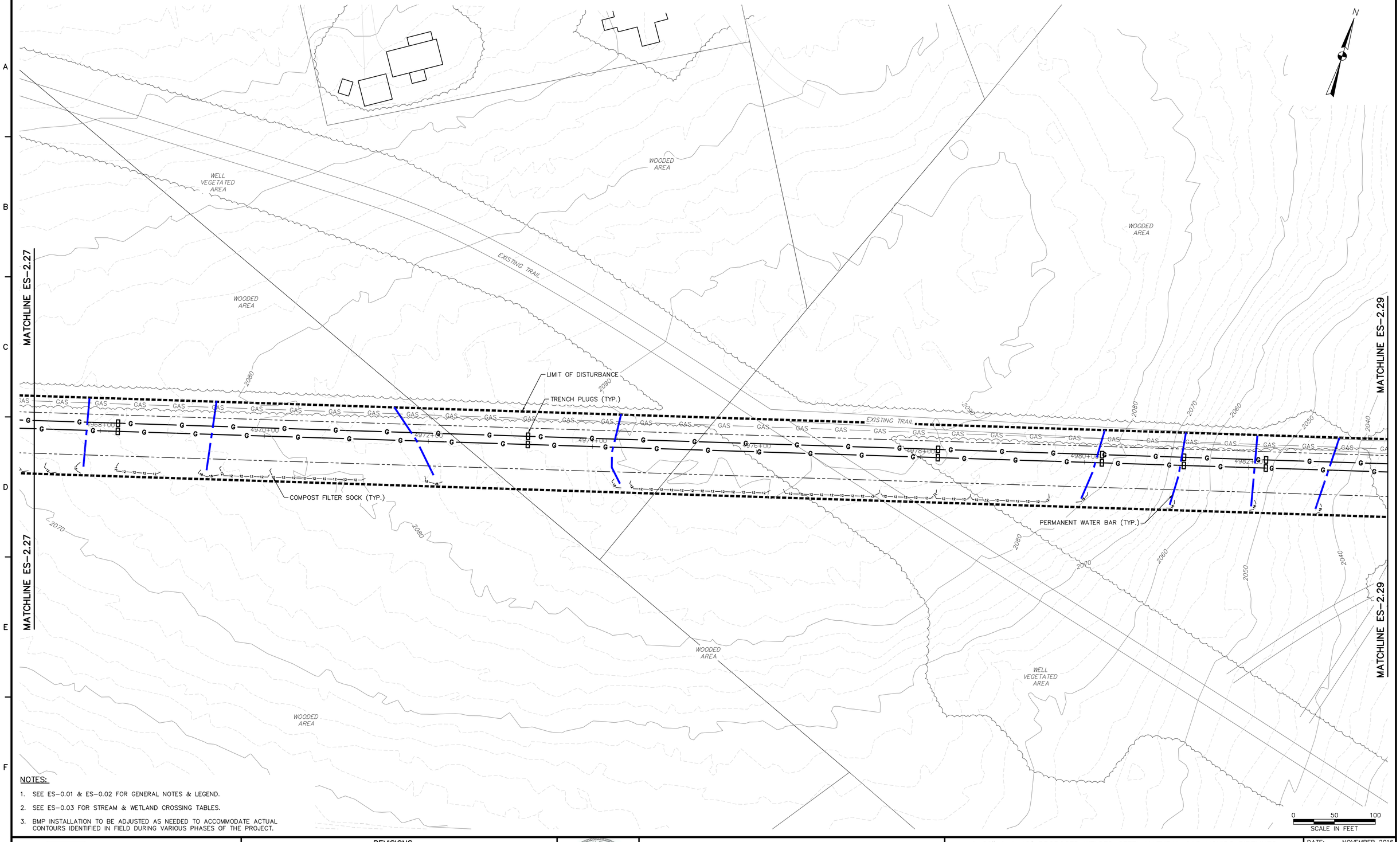
CAMBRIA COUNTY CONSERVATION DISTRICT
EROSION & SEDIMENT CONTROL &
SITE RESTORATION PLAN
SHEET 27 OF 75

DATE:	NOVEMBER 2016
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NOTES:

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2. SEE ES-0.03 FOR STREAM & WETLAND CROSSING TABLES.
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COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ROBERT F. SIMCIK ENGINEER PE-029436-E

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT
CONSTRUCTION SPREAD 2

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

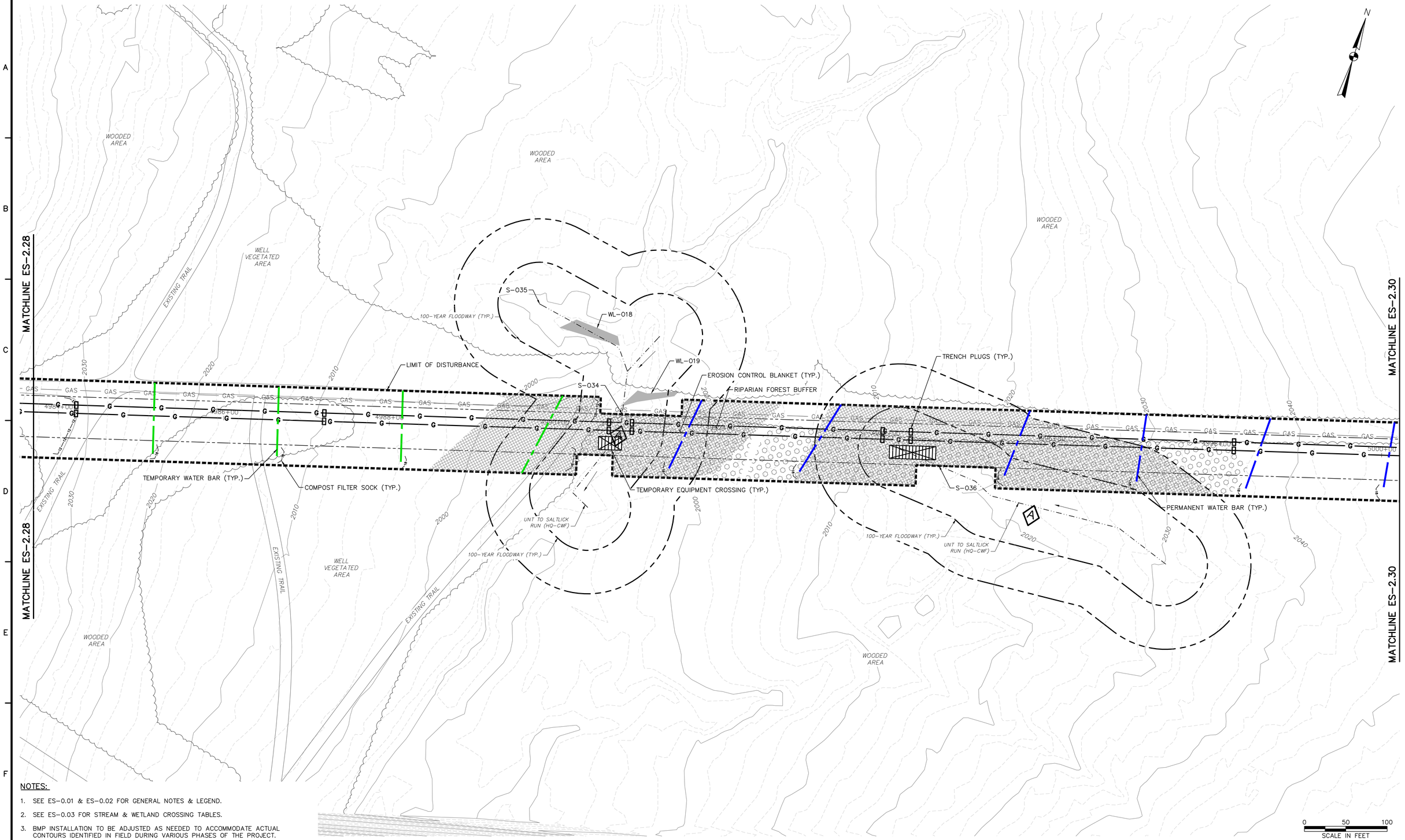
CAMBRIA COUNTY CONSERVATION DISTRICT
EROSION & SEDIMENT CONTROL &
SITE RESTORATION PLAN
SHEET 28 OF 75

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SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 2

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

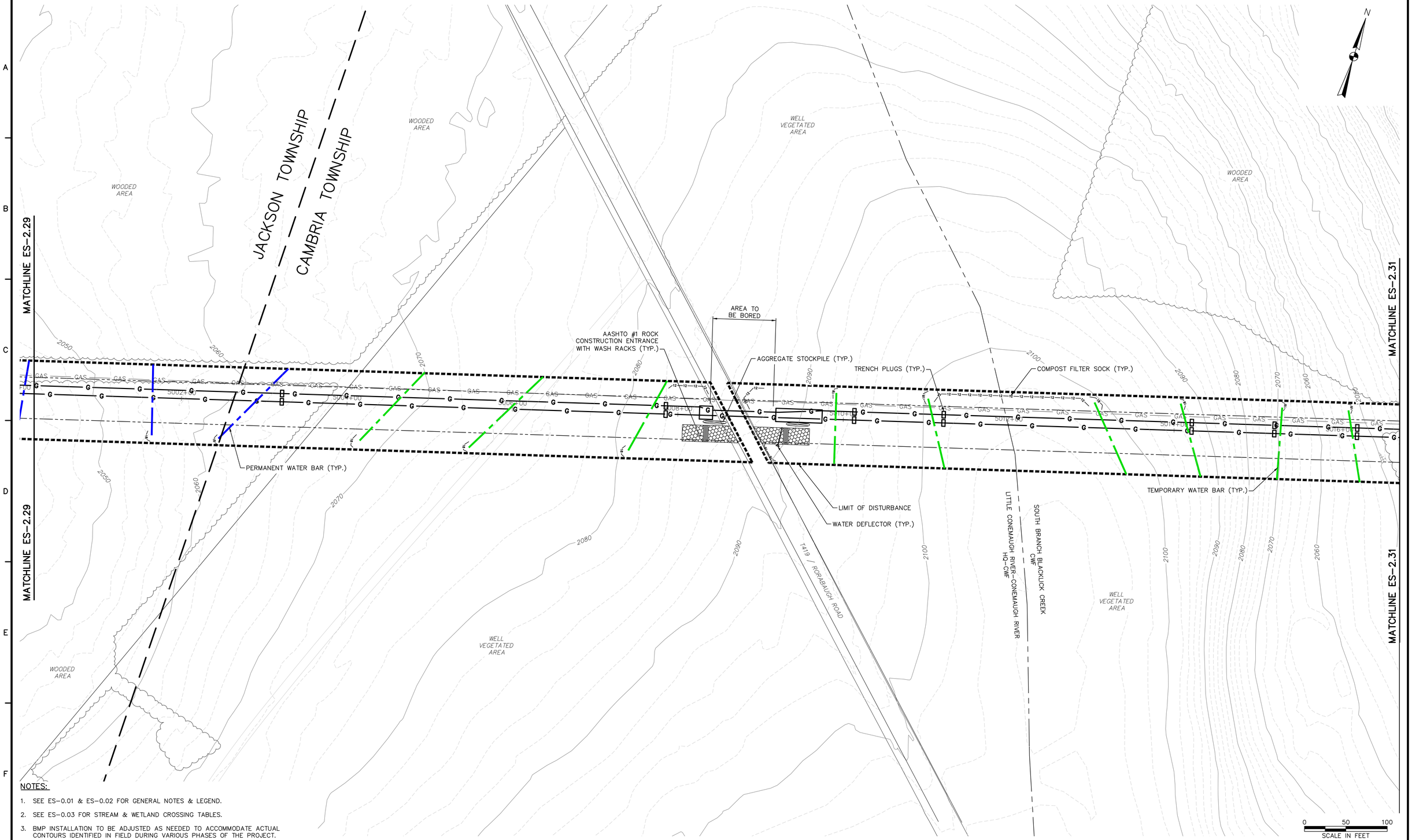
CAMBRIA COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 29 OF 75

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SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 2

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

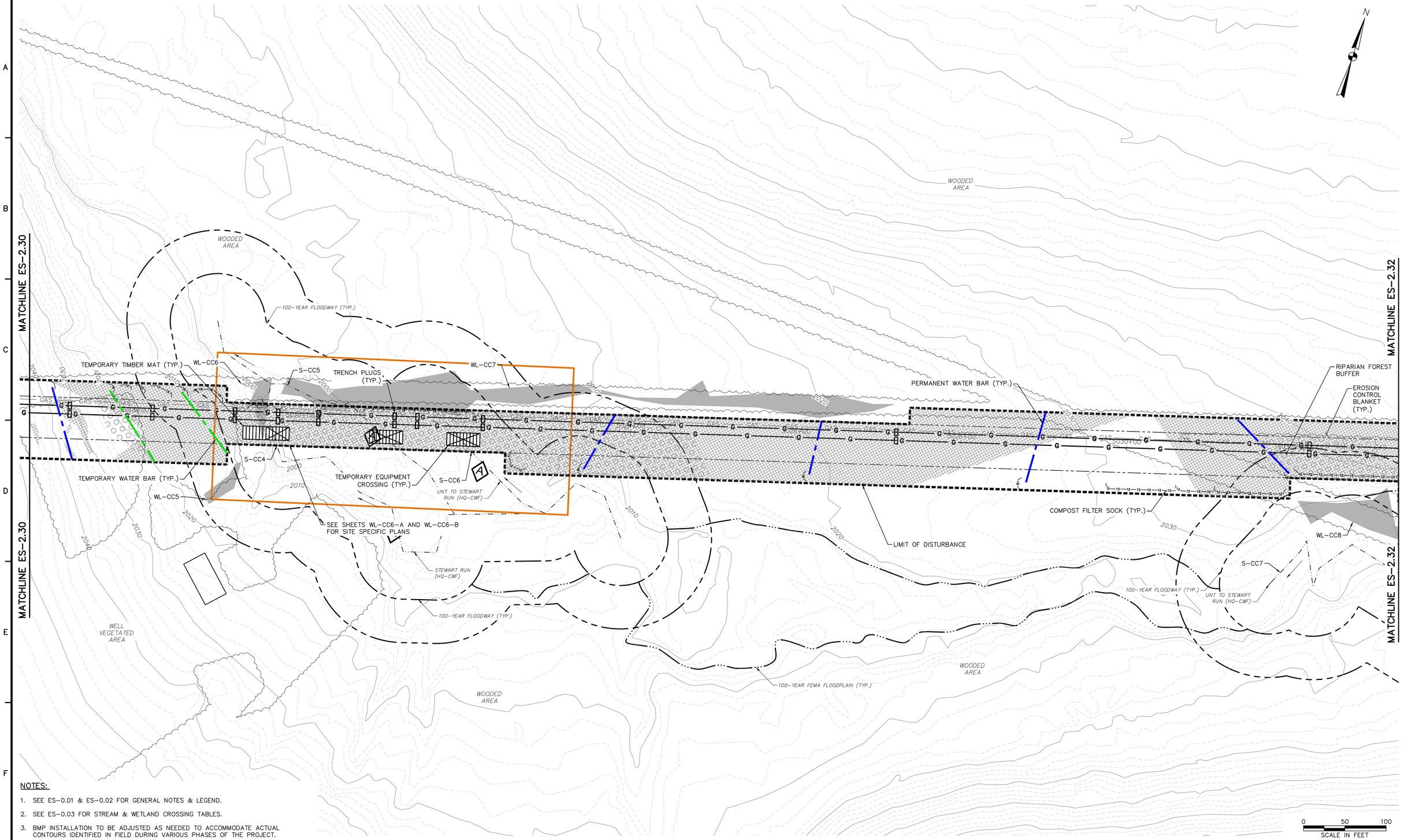
CAMBRIA COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 30 OF 75

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COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL ENGINEER — ROBERT F. SIMCIK

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 2

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

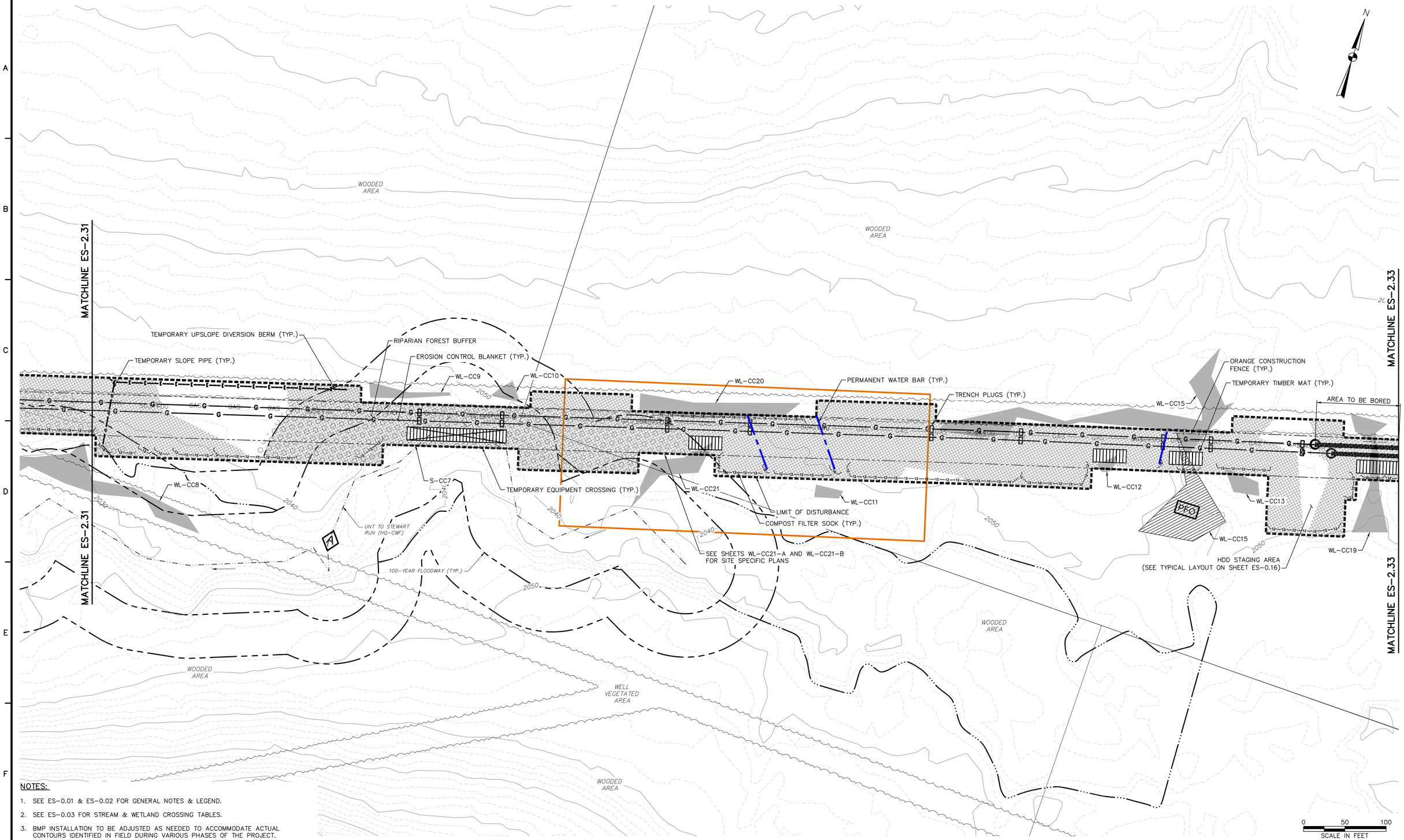
CAMBRIA COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 31 OF 75

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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-059436-E

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT
CONSTRUCTION SPREAD 2

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

CAMBRIA COUNTY CONSERVATION DISTRICT
EROSION & SEDIMENT CONTROL &
SITE RESTORATION PLAN
SHEET 32 OF 75

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SEE MATCHLINE ES-2.33A THIS SHEET

TEMPORARY ACCESS ROAD TO BE MAINTAINED ON EXISTING GRADE (ID # PPP-AR-069)

SEE MATCHLINE ES-2.33B THIS SHEET

WL-Q45

WOODED AREA

SEE MATCHLINE ES-2.33A THIS SHEET

STAGERS ROAD

AGGREGATE STOCKPILE (TYP.)

AASHTO #1 ROCK CONSTRUCTION ENTRANCE (TYP.)

WL-Q46

WOODED AREA

SEE MATCHLINE ES-2.33B THIS SHEET

MATCHLINE ES-2.32

TRENCH PLUGS (TYP.)

ORANGE CONSTRUCTION FENCE (TYP.)

WL-BB86

TEMPORARY TIMBER MAT (TYP.)

AREA TO BE BORED

POND CC1

TEMPORARY EQUIPMENT CROSSING (TYP.)

COMPOST FILTER SOCK (TYP.)

LIMIT OF DISTURBANCE

TEMPORARY GRADING TO ACCOMMODATE HDD ACTIVITIES

MATCHLINE ES-2.34

WL-CC19

HDD STAGING AREA

WL-CC18

S-CC8

EROSION CONTROL BLANKET (TYP.)

RIPARIAN FOREST BUFFER

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

WL-CC17

UNT TO STEWART RUN (HQ-CWF)

WELL VEGETATED AREA

100-YEAR FLOODWAY (TYP.)

TEMPORARY SLOPE PIPE (TYP.)

TEMPORARY UPSLOPE DIVERSION BERM (TYP.)

ROW - TRAVEL LOD

MATCHLINE ES-2.32

MATCHLINE ES-2.34

NOTES:

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

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SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 2

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

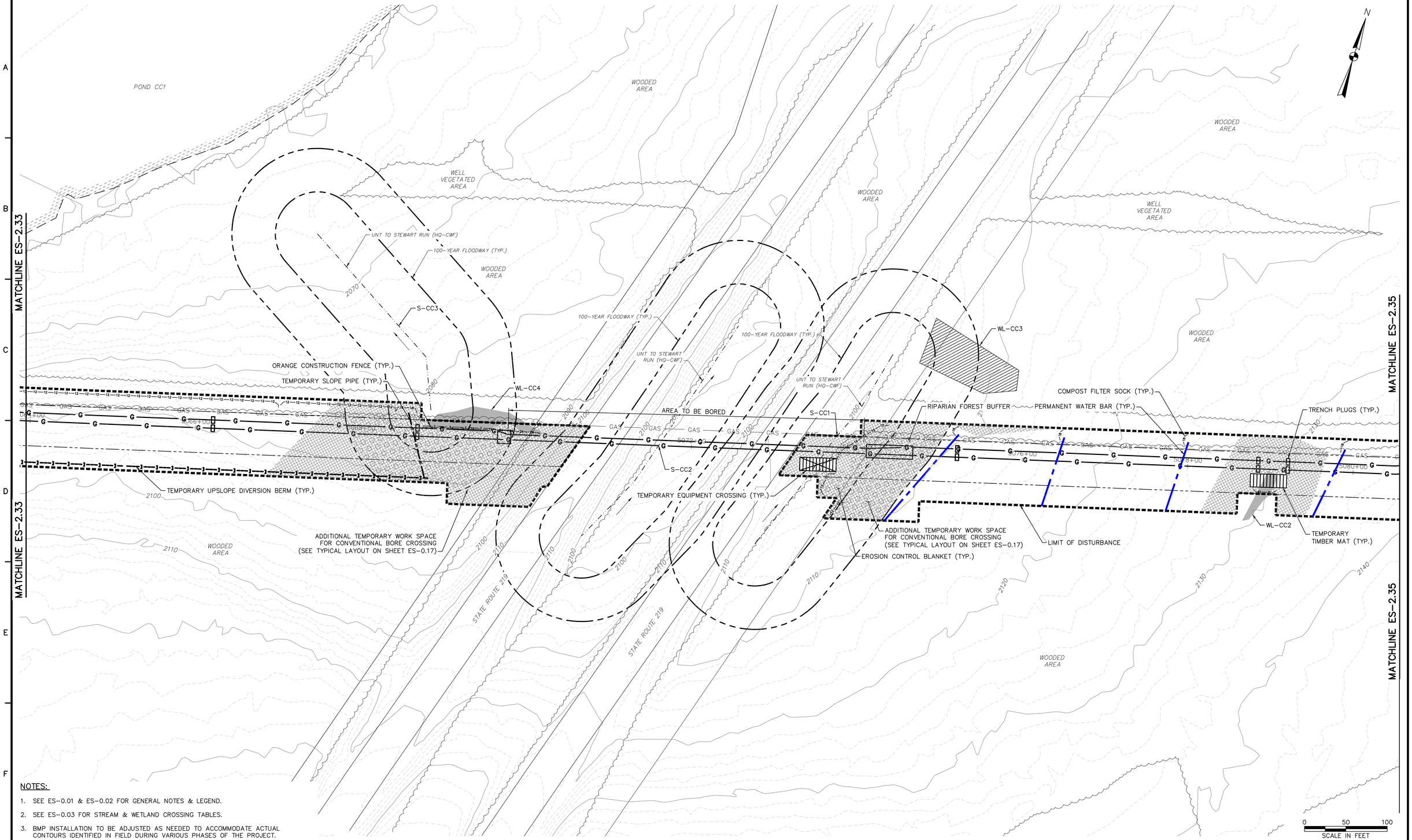
CAMBRIA COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 33 OF 75

DATE:	NOVEMBER 2016
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2. SEE ES-0.03 FOR STREAM & WETLAND CROSSING TABLES.
3. 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
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ROBERT F. SIMCIK

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 2

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

CAMBRIA COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 34 OF 75

DATE:	NOVEMBER 2016
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MATCHLINE ES-2.34

MATCHLINE ES-2.36

WL-CC1

EROSION CONTROL BLANKET (TYP.)

LIMIT OF DISTURBANCE

PERMANENT WATER BAR (TYP.)

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

AREA TO BE BORED

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

AGGREGATE STOCKPILE (TYP.)

AASHTO #1 ROCK CONSTRUCTION ENTRANCE (TYP.)

TEMPORARY UPSLOPE DIVERSION BERM (TYP.)

TEMPORARY SLOPE PIPE (TYP.)

COMPOST FILTER SOCK (TYP.)

TRENCH PLUGS (TYP.)

TEMPORARY WATER BAR (TYP.)

WATER DEFLECTOR (TYP.)

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

WATERSHED: SOUTH BRANCH BLACKLICK CREEK (CWF)

WATERSHED: NORTH BRANCH LITTLE CONEMAUGH (CWF)

SOUTH BRANCH BLACKLICK CREEK CWF

NORTH BRANCH LITTLE CONEMAUGH CWF

WELL VEGETATED AREA

WOODED AREA

PENSACOLA ROAD

NEW GERMANY ROAD

FAIRLANE ROAD

NOTES:

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COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL — ROBERT F. SIMCIK — ENGINEER — PE-030436-E

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 2

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

CAMBRIA COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 35 OF 75

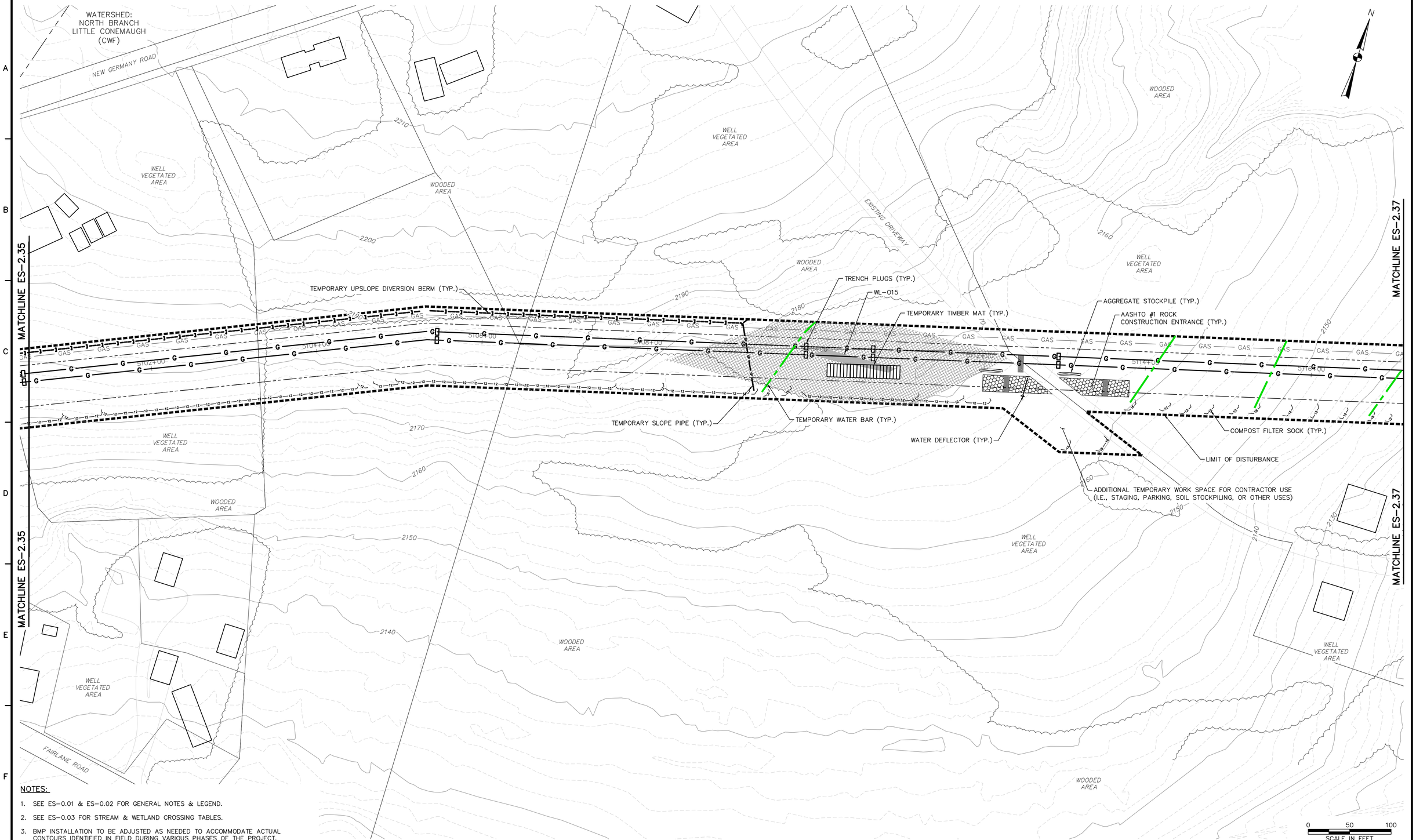
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COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL — ROBERT F. SIMCIK — ENGINEER — PE-059435-E

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 2

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

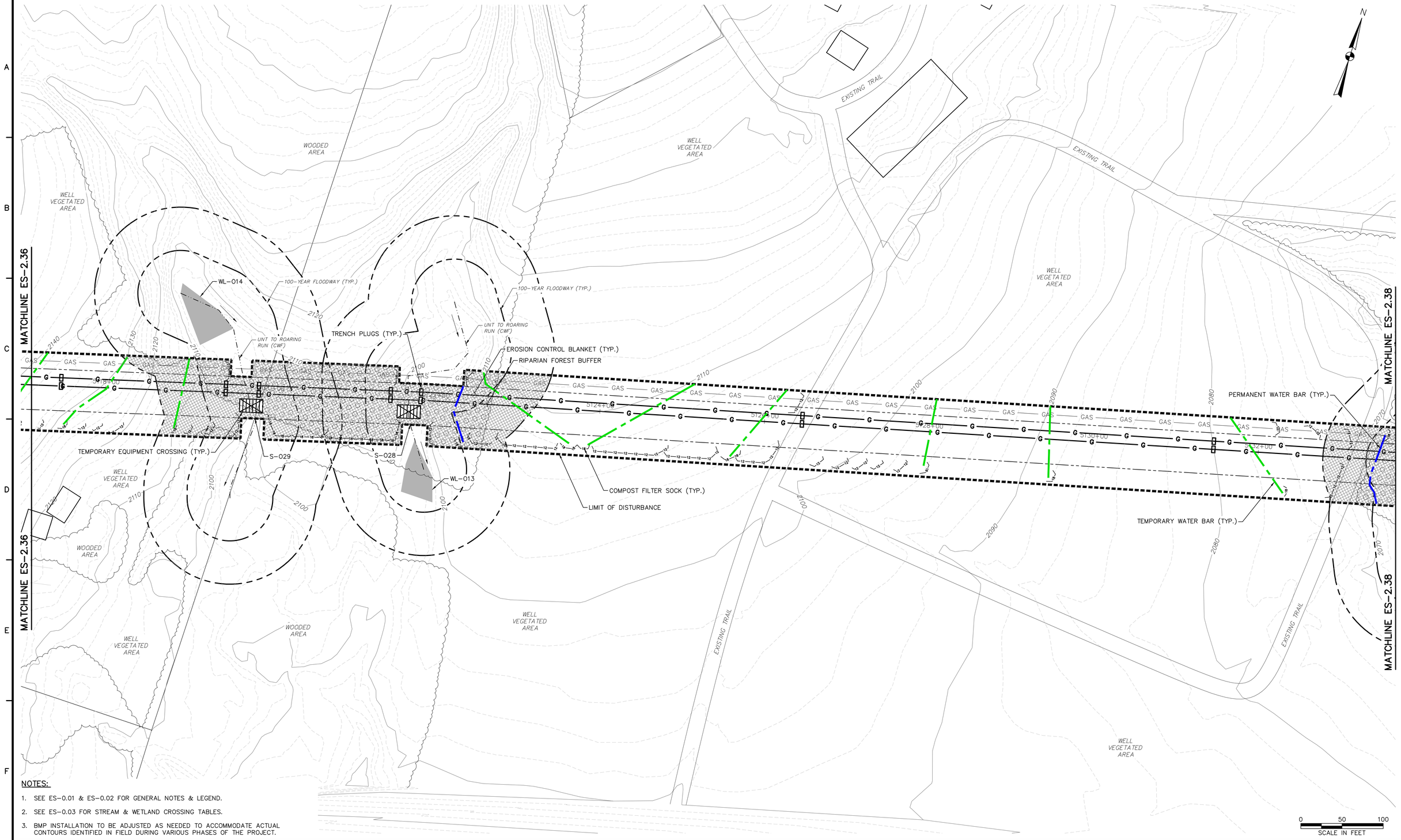
CAMBRIA COUNTY CONSERVATION DISTRICT
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SHEET 36 OF 75

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COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ENGINEER ROBERT F. SIMCIK PE-035435-E

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 2

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

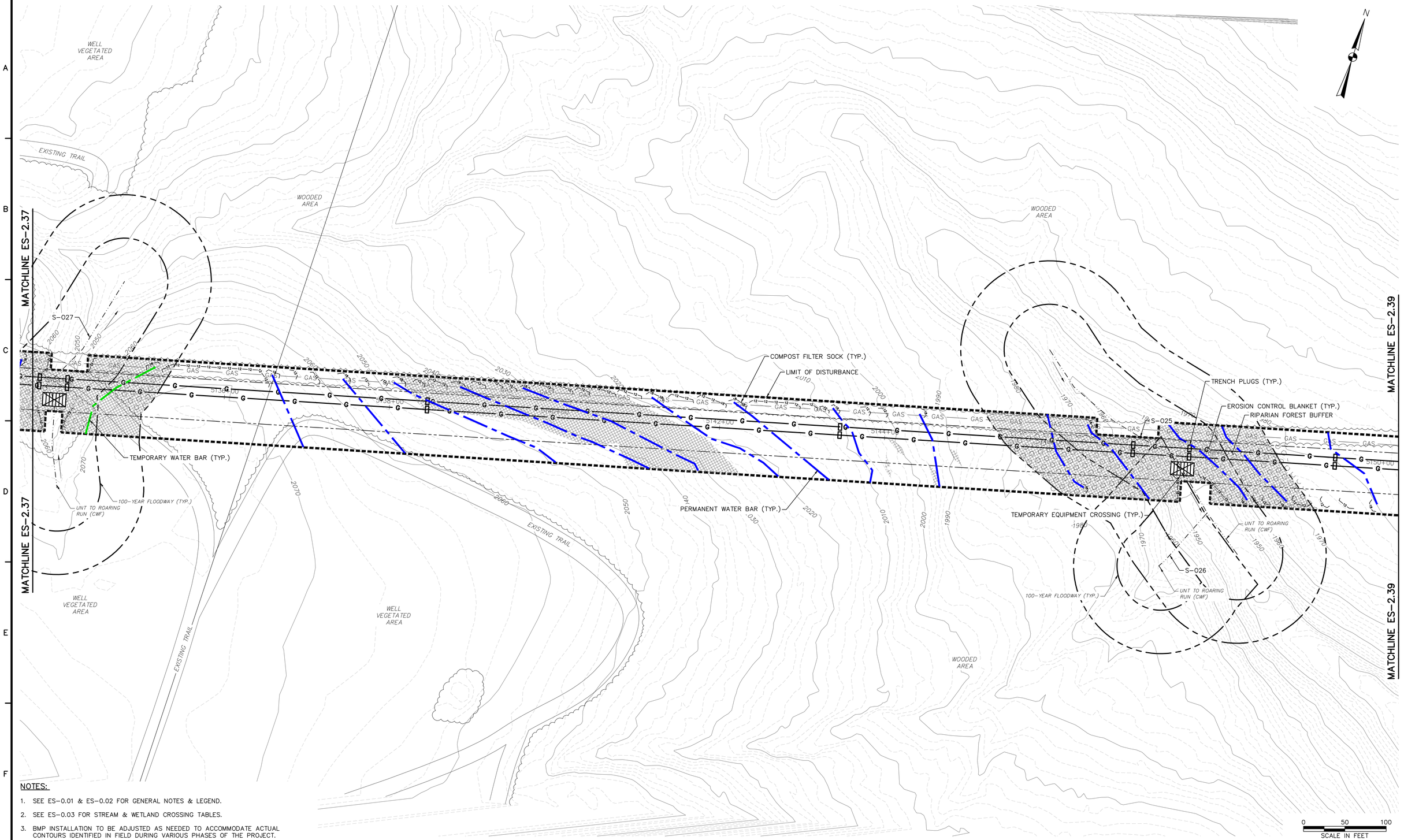
CAMBRIA COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 37 OF 75

DATE:	NOVEMBER 2016
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NO.	BY	DATE	REMARKS

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
ROBERT F. SIMCIK
ENGINEER

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT
CONSTRUCTION SPREAD 2

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

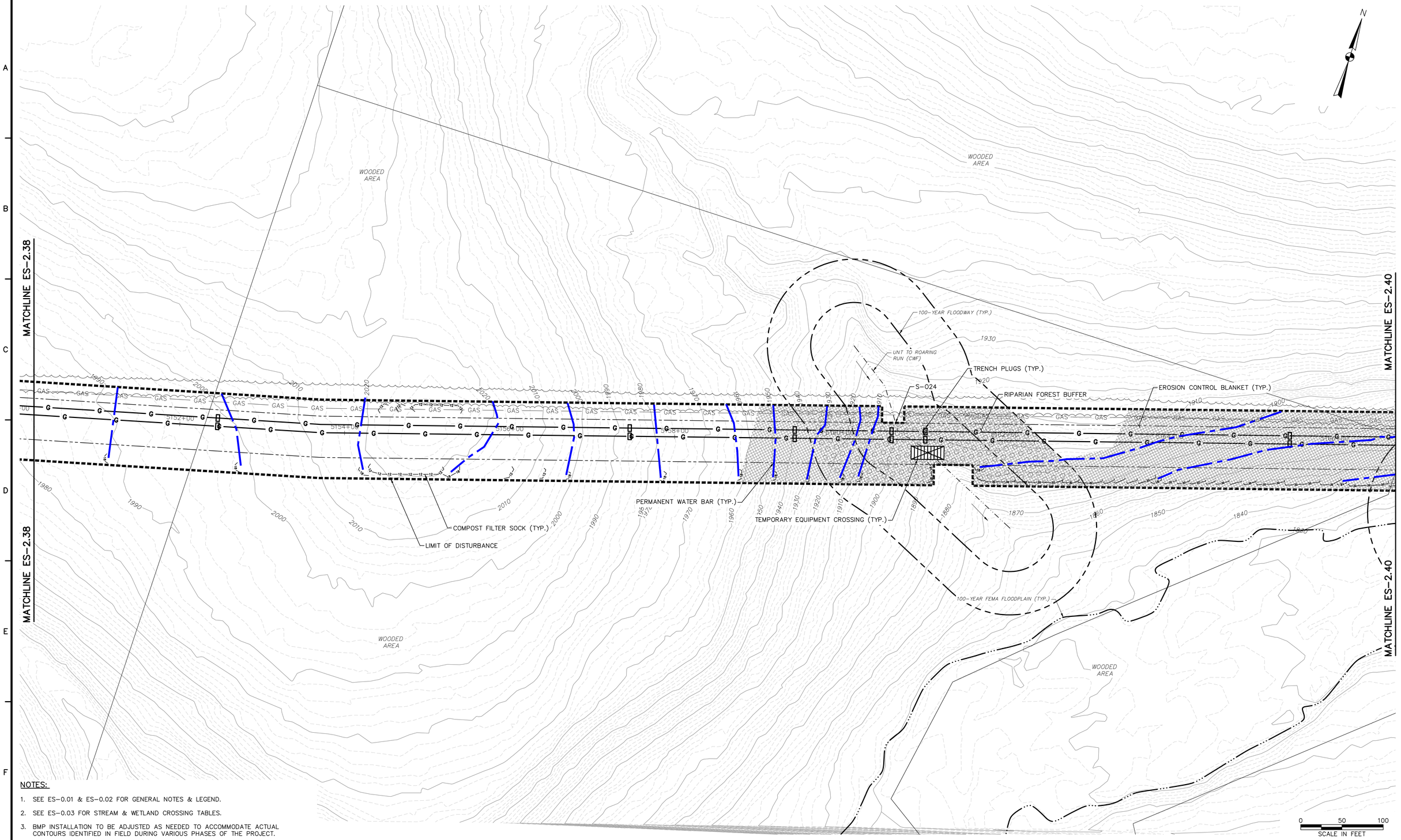
CAMBRIA COUNTY CONSERVATION DISTRICT
EROSION & SEDIMENT CONTROL &
SITE RESTORATION PLAN
SHEET 38 OF 75

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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. BMP INSTALLATION TO BE ADJUSTED AS NEEDED TO ACCOMMODATE ACTUAL CONTOURS IDENTIFIED IN FIELD DURING VARIOUS PHASES OF THE PROJECT.

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NO.	BY	DATE	REMARKS

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ENGINEER ROBERT F. SIMCIK PE-026436-E

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 2

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

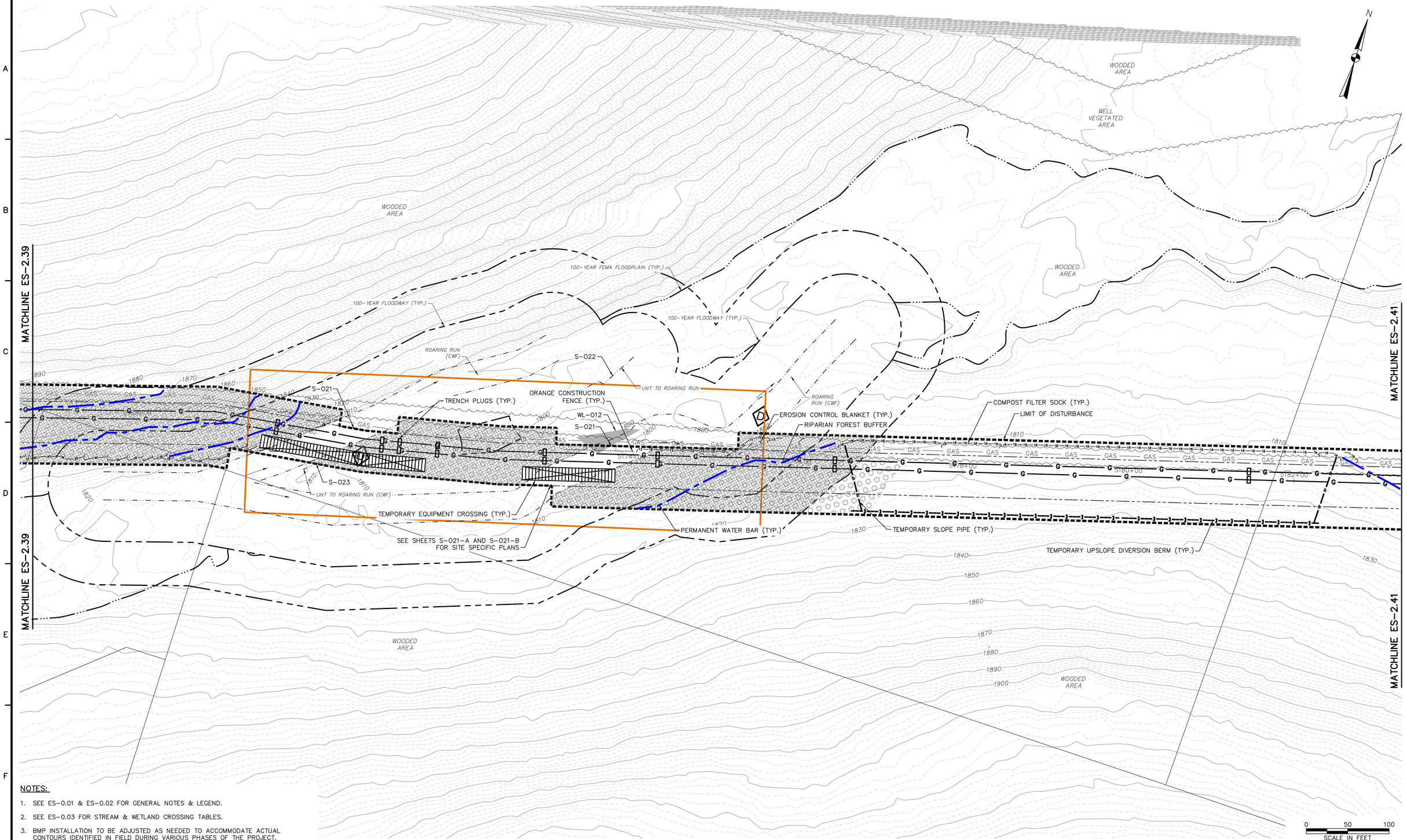
CAMBRIA COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 39 OF 75

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COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ENGINEER ROBERT F. SIMCIK PE-039418-E

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SINKING SPRING, PENNSYLVANIA

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CAMBRIA COUNTY CONSERVATION DISTRICT
EROSION & SEDIMENT CONTROL &
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SHEET 40 OF 75

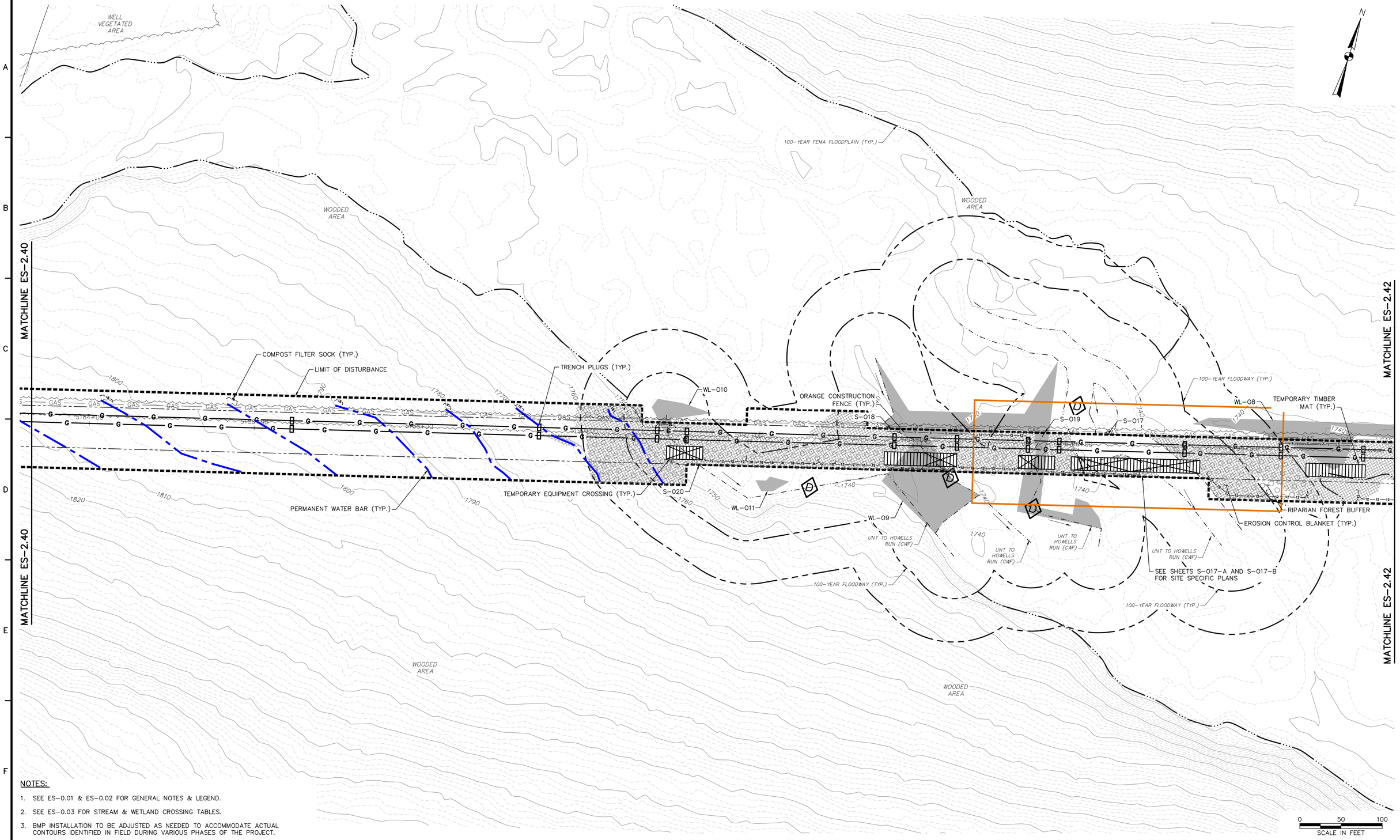
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PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 2

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

CAMBRIA COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 41 OF 75

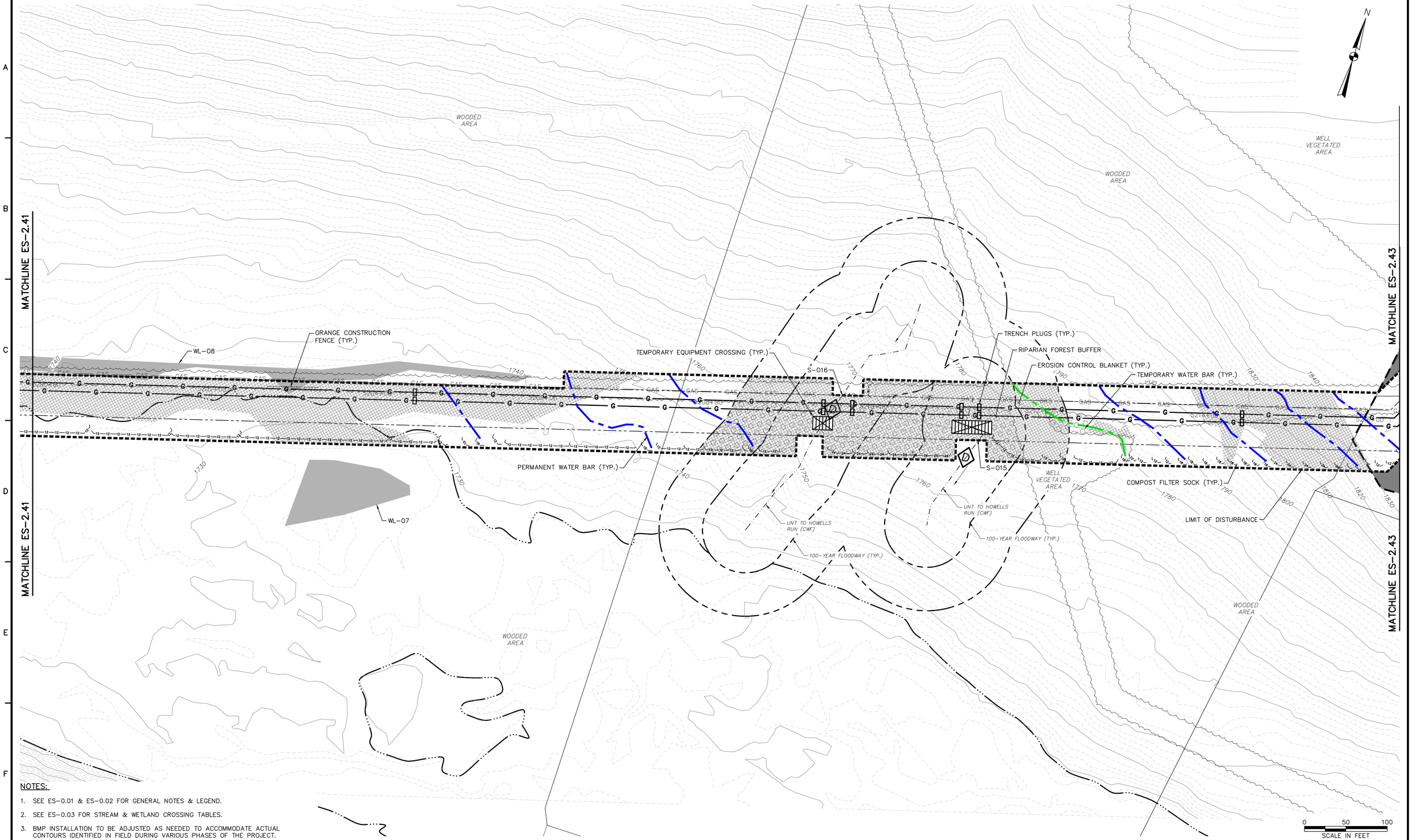
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1-20" & 1-16" PROPOSED WELDED STEEL NATURAL GAS LIQUIDS PIPELINES

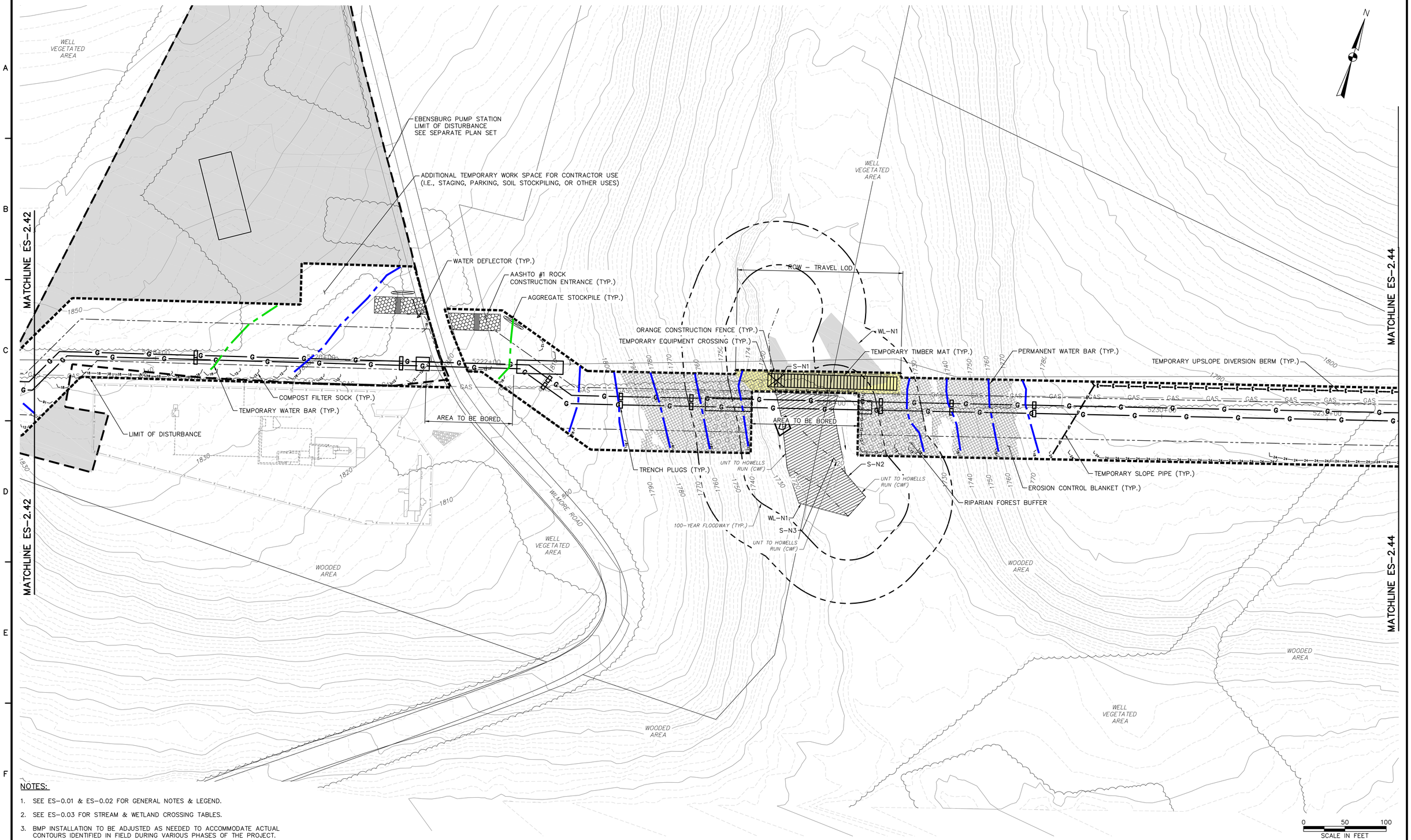
CAMBRIA COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 42 OF 75

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PENNSYLVANIA PIPELINE PROJECT
CONSTRUCTION SPREAD 2

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

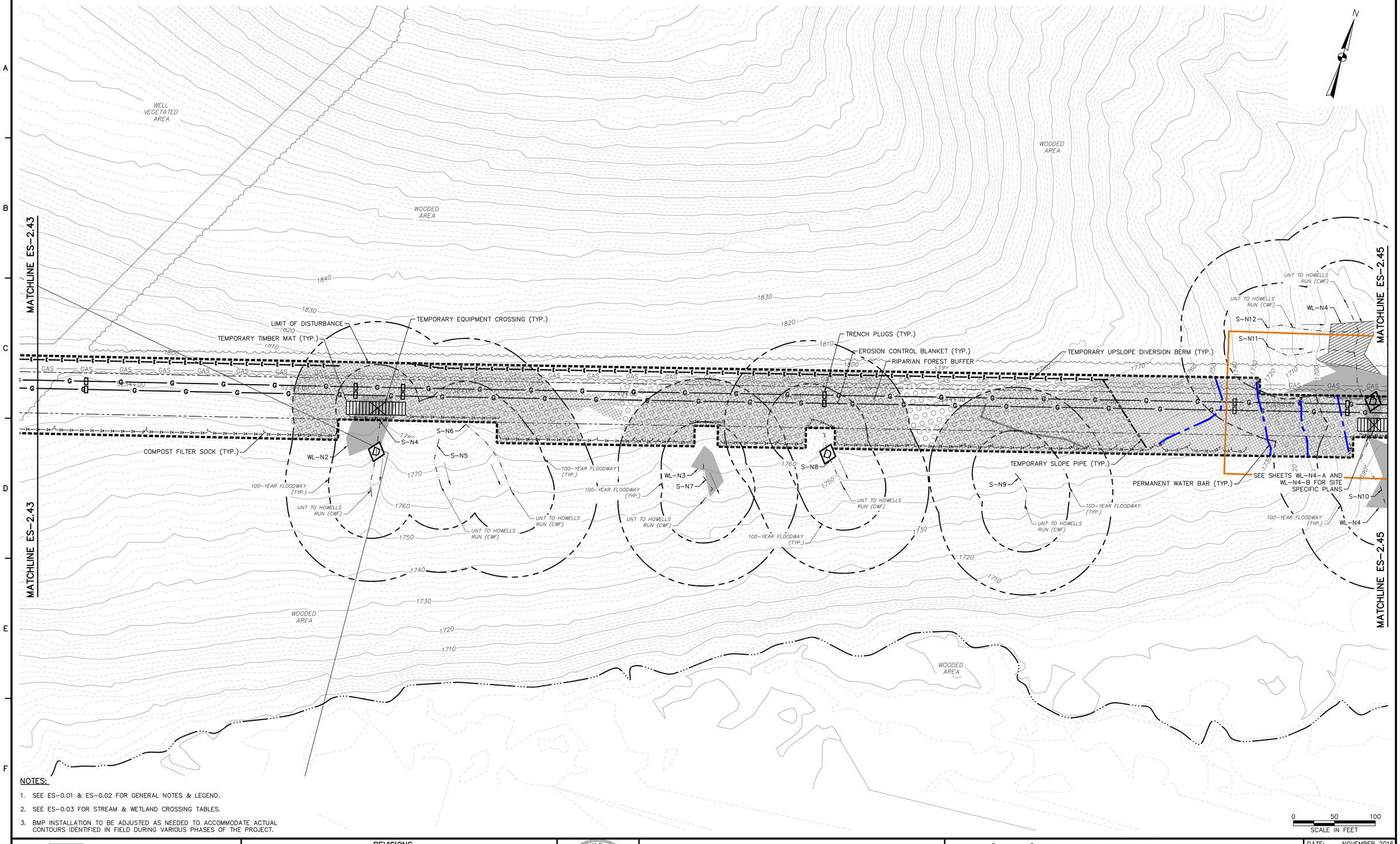
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EROSION & SEDIMENT CONTROL &
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SHEET 43 OF 75

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PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 2

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

CAMBRIA COUNTY CONSERVATION DISTRICT
EROSION & SEDIMENT CONTROL &
SITE RESTORATION PLAN
SHEET 44 OF 75

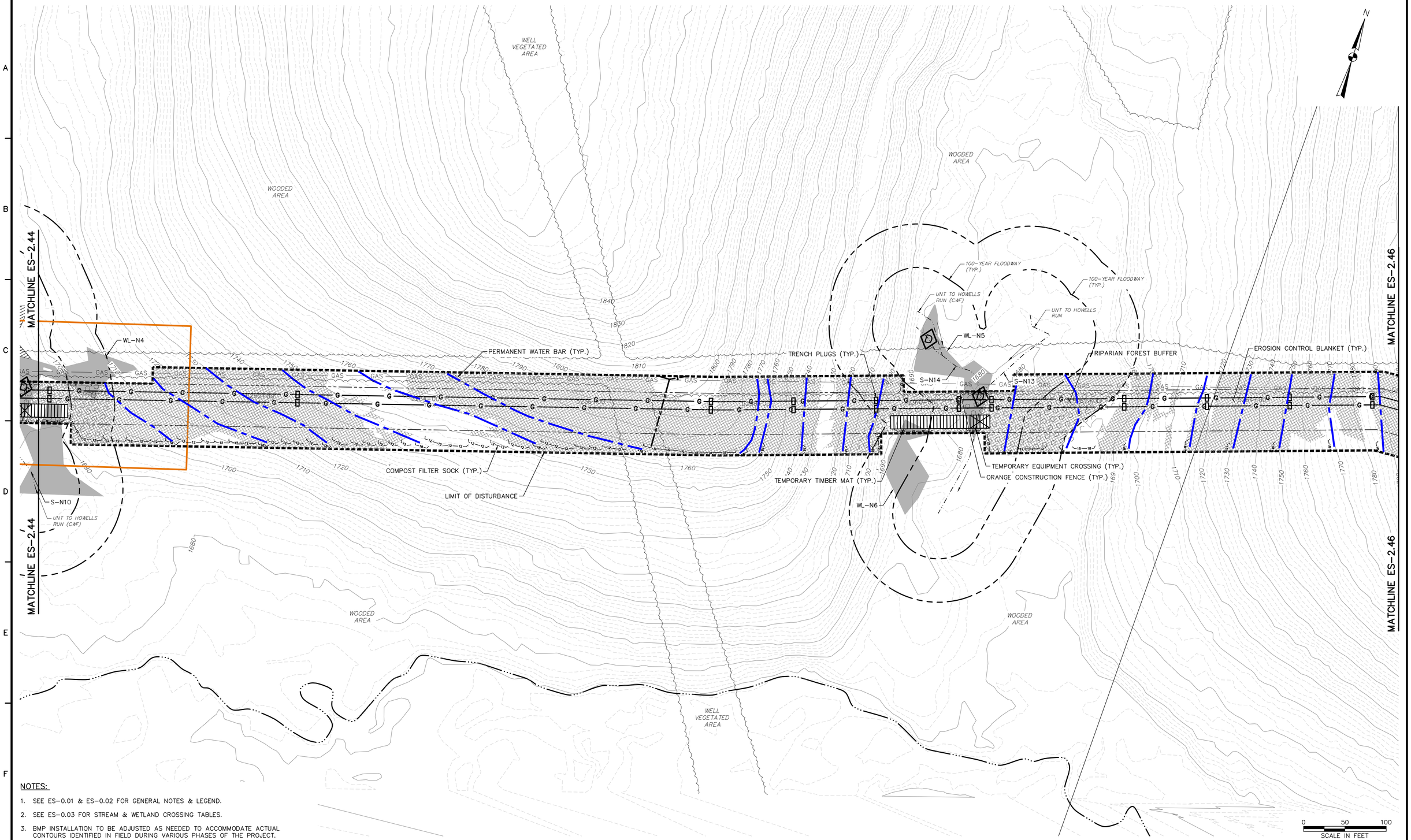
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PENNSYLVANIA PIPELINE PROJECT
CONSTRUCTION SPREAD 2

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

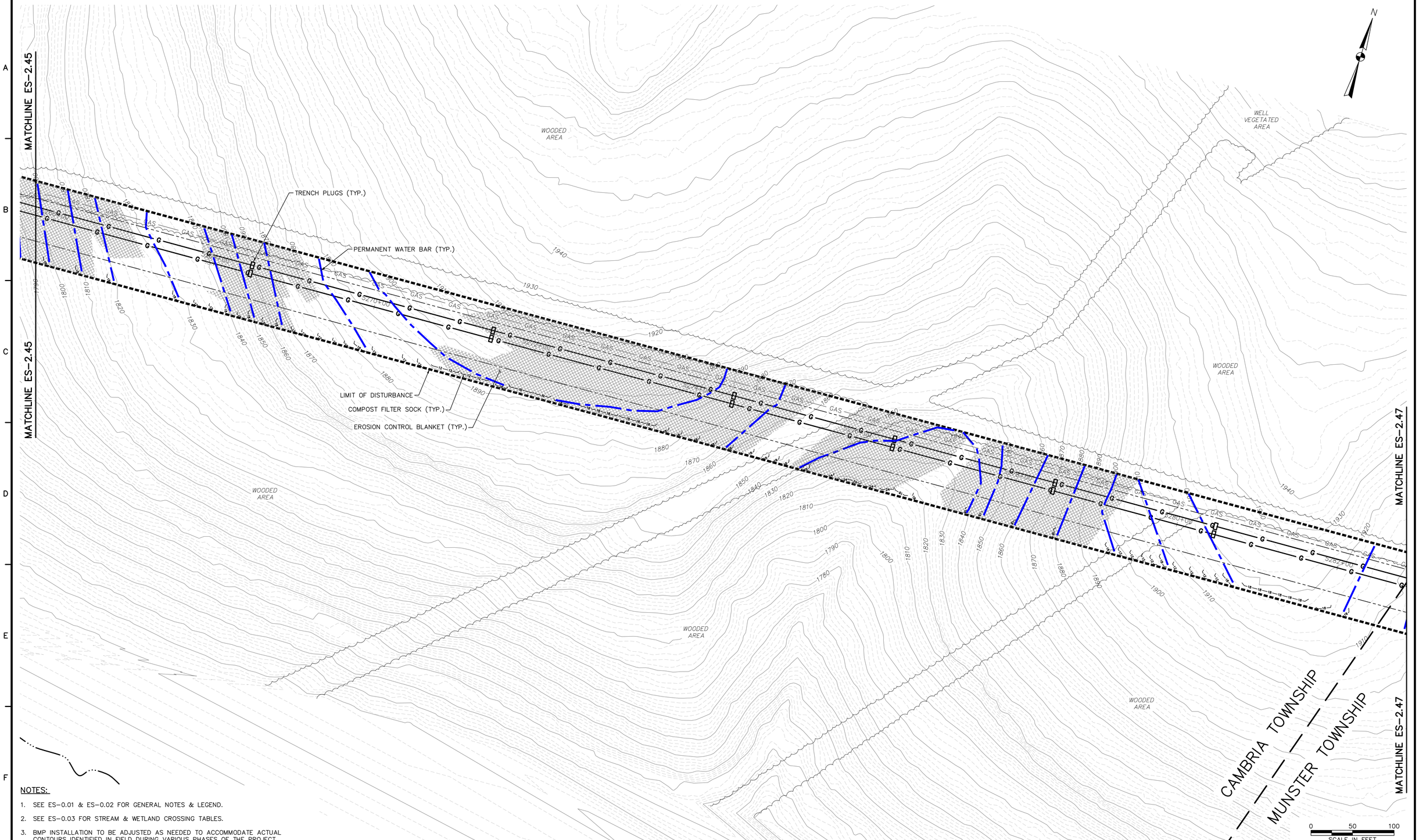
CAMBRIA COUNTY CONSERVATION DISTRICT
EROSION & SEDIMENT CONTROL &
SITE RESTORATION PLAN
SHEET 45 OF 75

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

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 2

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

CAMBRIA COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 46 OF 75

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CAMBRIA TOWNSHIP

MUNSTER TOWNSHIP

MATCHLINE ES-2.46

MATCHLINE ES-2.46

MATCHLINE ES-2.48

MATCHLINE ES-2.48

WL-N7

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

TEMPORARY SLOPE PIPE (TYP.)

TEMPORARY UPSLOPE DIVERSION BERM (TYP.)

COMPOST FILTER SOCK (TYP.)

EROSION CONTROL BLANKET (TYP.)

PERMANENT WATER BAR (TYP.)

TRENCH PLUGS (TYP.)

LIMIT OF DISTURBANCE

ROW – TRAVEL AND CLEARING LOD

AREA TO BE BORED

APPROXIMATE DISCHARGE LOCATION
LAT: N40° 27' 08.83"
LON: W78° 41' 29.42"
OUTFALL 056

FLOW DIRECTION TOWARD UNT TO N BRANCH LITTLE CONEMAUGH RIVER RUN (CWF)

CONTRACTOR TO INSTALL HAY BALE STRUCTURES IN THIS AREA TO ALLOW FOR DISCHARGE OF HYDROSTATIC TEST WATERS. INSTALLATION AND OPERATION OF STRUCTURES WILL FOLLOW BEST MANAGEMENT PRACTICES. SEE DETAILS 18 AND 19.

EXISTING TEMPORARY ACCESS ROAD TO BE MAINTAINED ON EXISTING GRADE (ID # PPP-AR-070)

100-YEAR FLOODWAY (TYP.)

UNT TO NORTH BRANCH LITTLE CONEMAUGH RIVER (CWF)

WELL VEGETATED AREA

WOODED AREA

S-N15

S-N16

S-N17

AASHTO #1 ROCK CONSTRUCTION ENTRANCE (TYP.)

TEMPORARY TIMBER MATS (TYP.)

WATER DEFLECTOR (TYP.)

SPINNER ROAD

WL-BB87

S-BB64

WL-BB88

WL-BB89

N

0 50 100
SCALE IN FEET

NOTES:

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COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
ROBERT F. SIMCIK
ENGINEER
PE 059435-E

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 2

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

CAMBRIA COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 47 OF 75

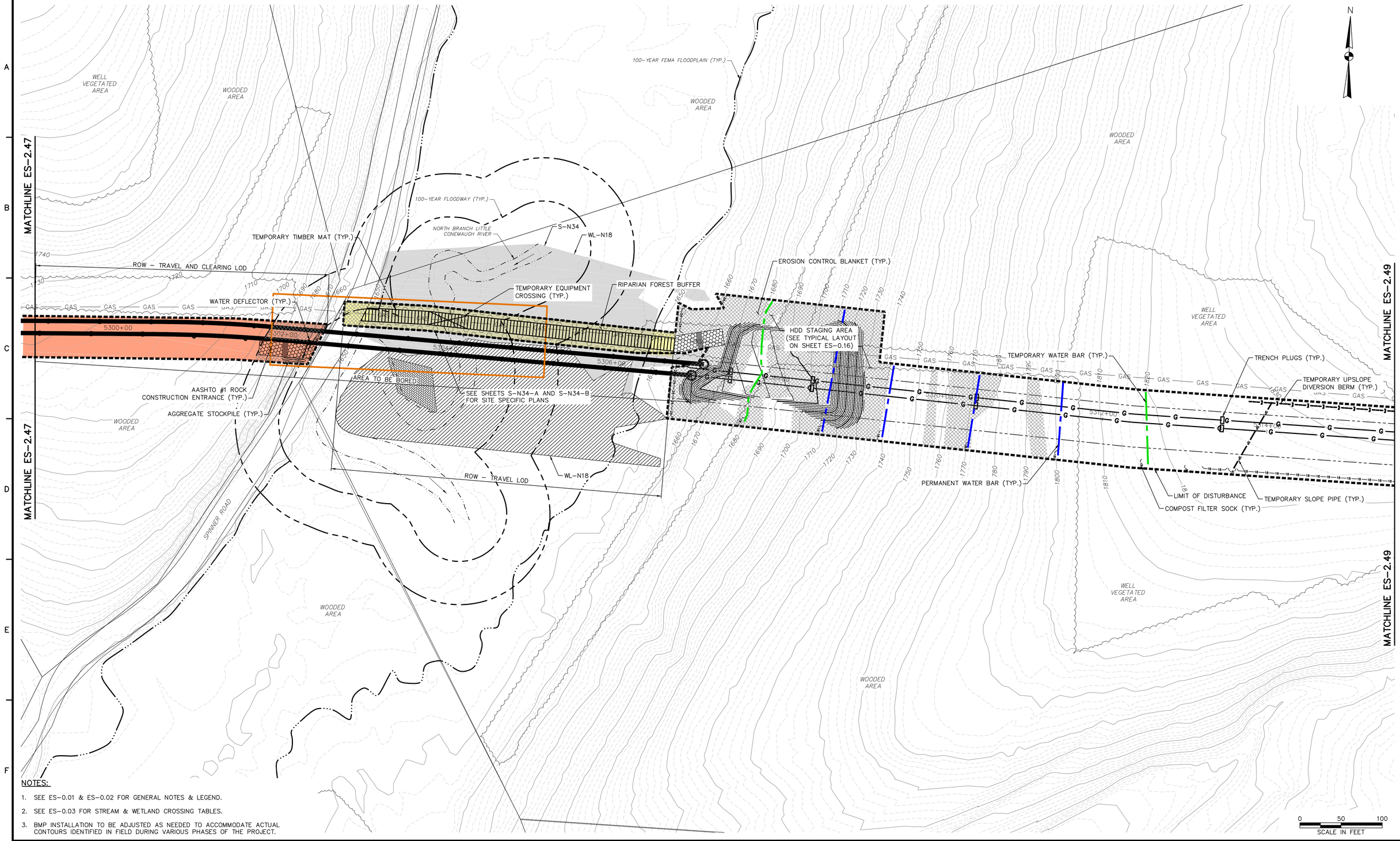
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COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ENGINEER ROBERT F. SIMCIK PE 059435-E

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SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 2

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

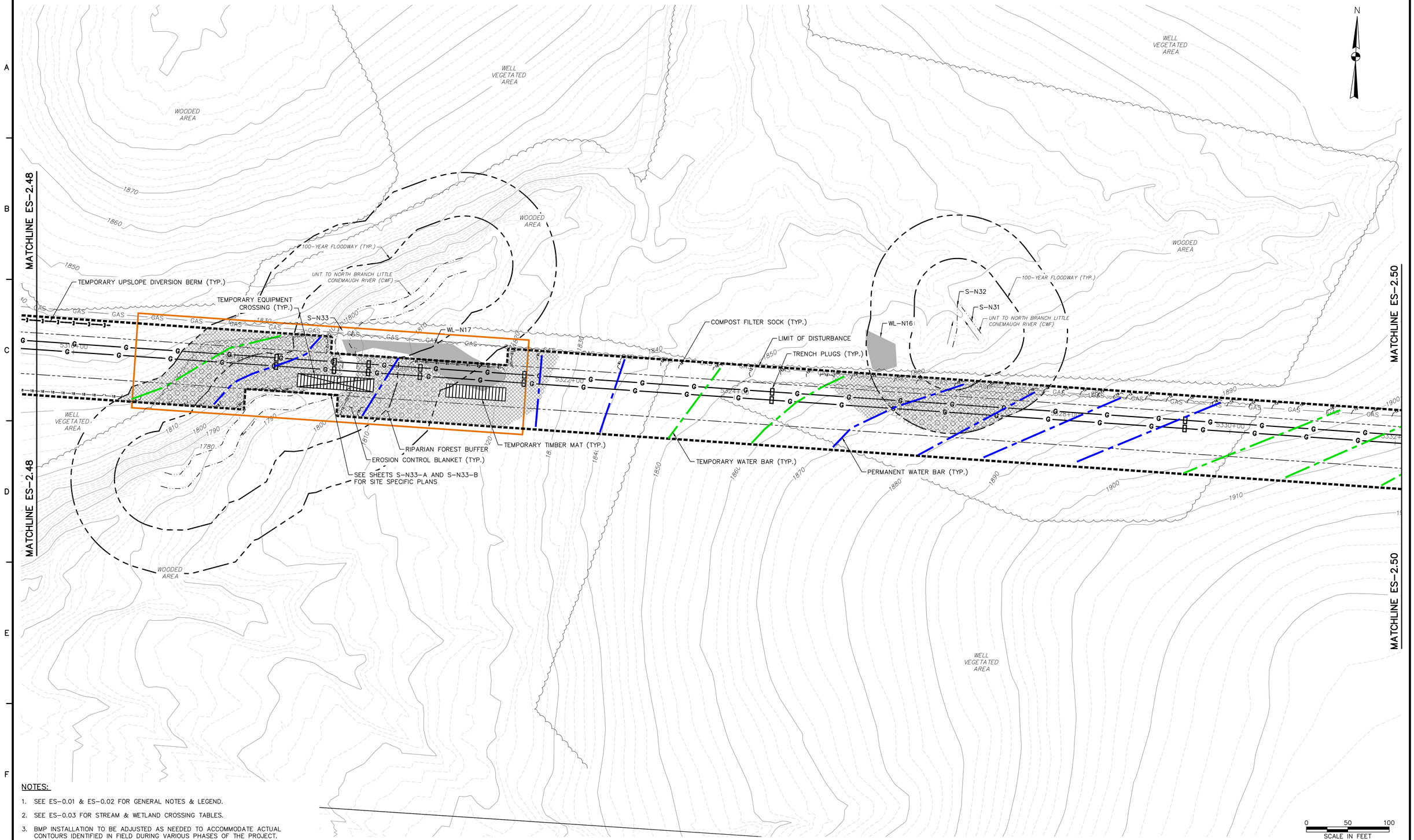
CAMBRIA COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 48 OF 75

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COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ROBERT F. SIMCIK ENGINEER PE-039435-E

SUNOCO PIPELINE L.P.
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PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 2

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

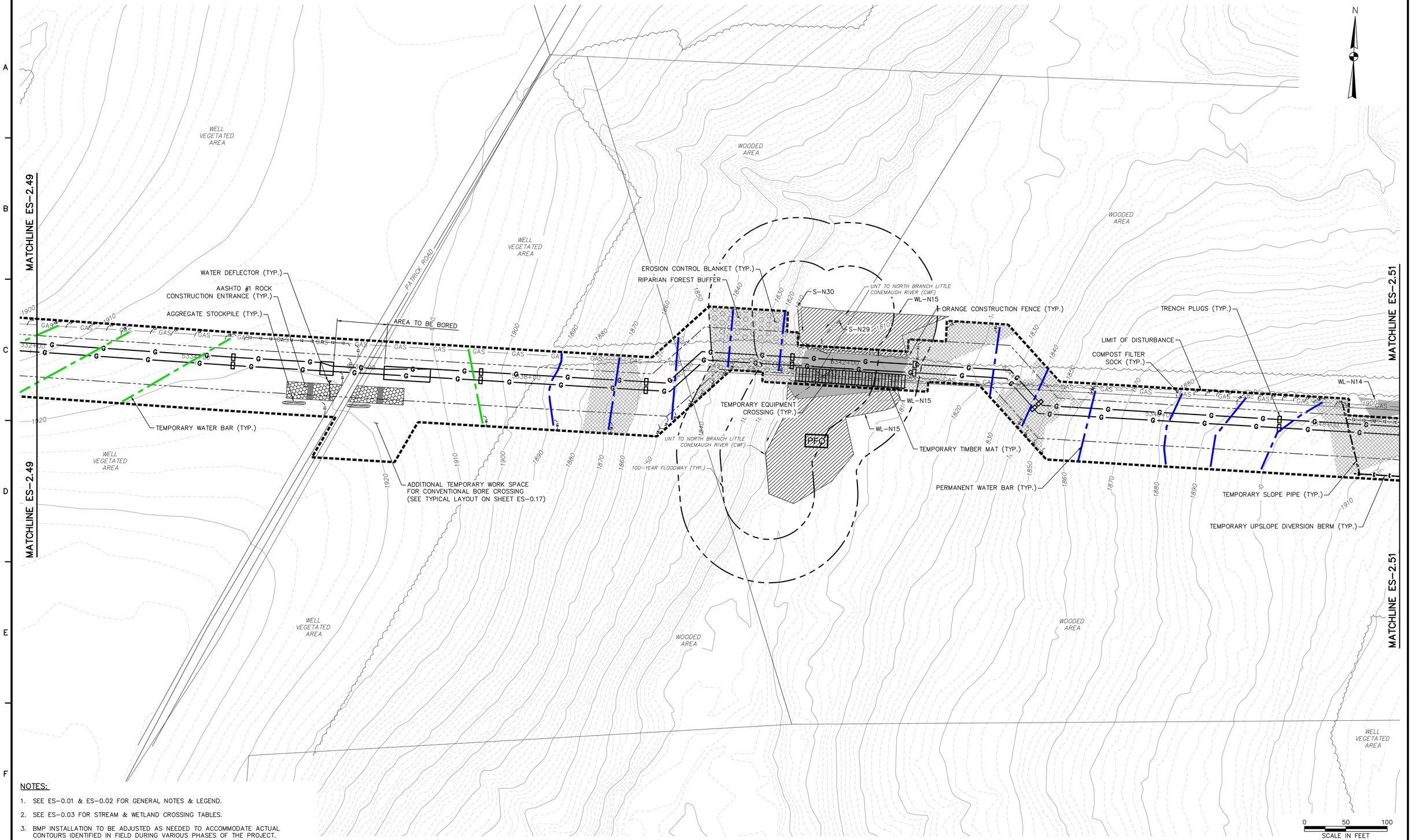
CAMBRIA COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 49 OF 75

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

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

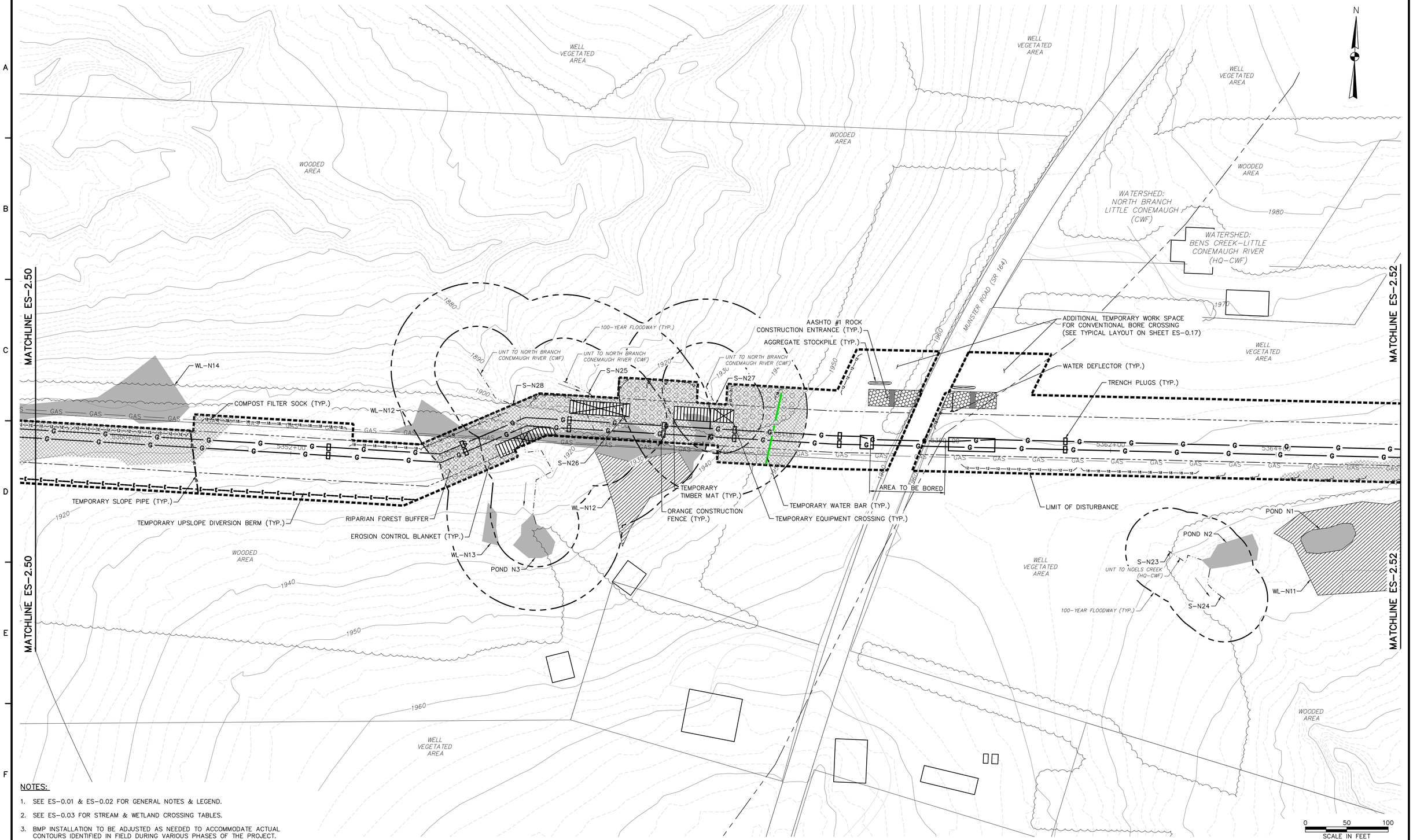
CAMBRIA COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 50 OF 75

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

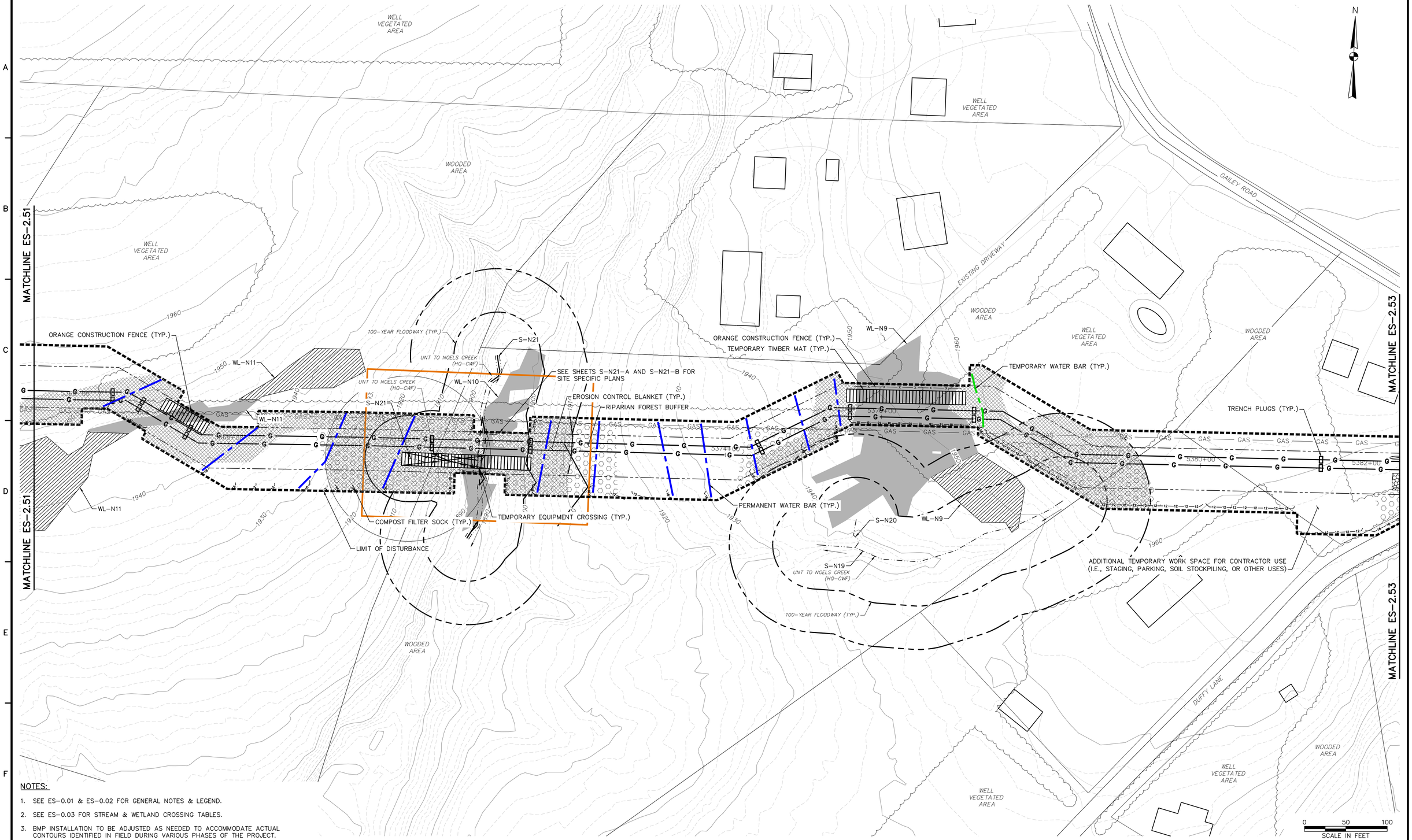
CAMBRIA COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 51 OF 75

DATE:	NOVEMBER 2016
PROJECT NO.:	112C05958
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DRAWN BY:	BH
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ES-2.51
SHEET 2.51 OF 102

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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. 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-050435-E

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 2

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

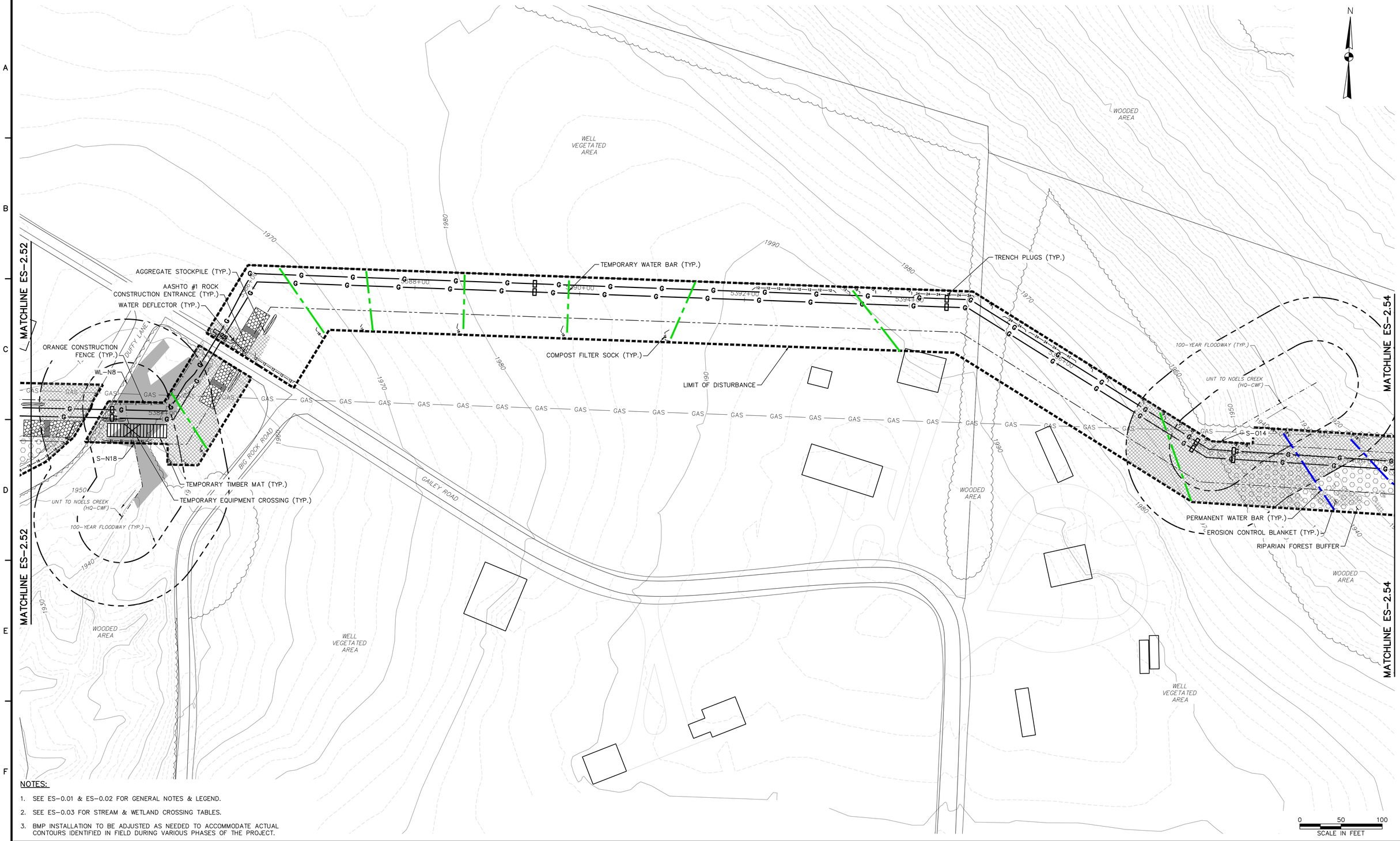
CAMBRIA COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 52 OF 75

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NO.	BY	DATE	REMARKS

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ENGINEER ROBERT F. SIMCIK PE-039438-E

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 2

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

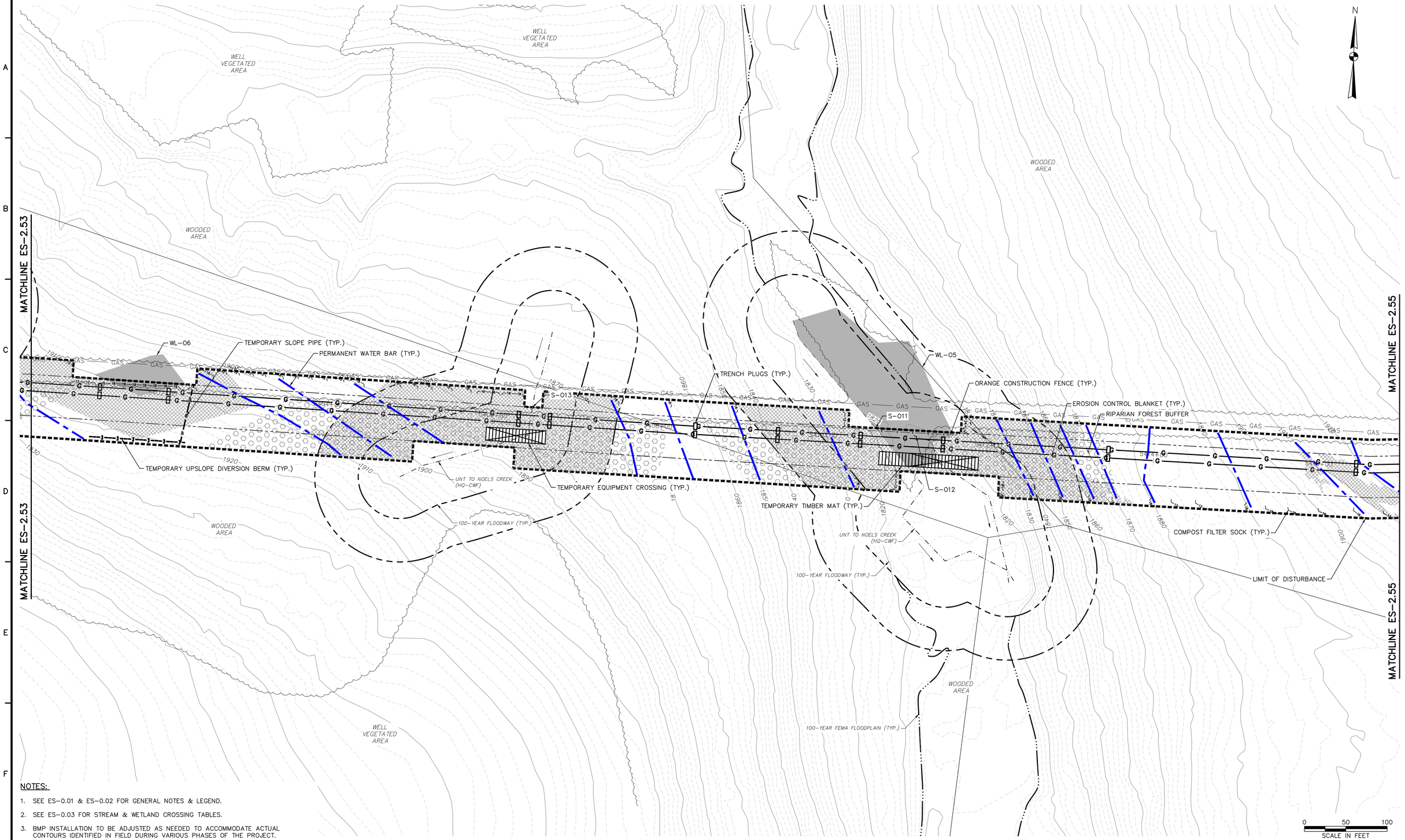
CAMBRIA COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 53 OF 75

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COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ENGINEER ROBERT F. SIMCIK PE-059435-E

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SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 2

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

CAMBRIA COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 54 OF 75

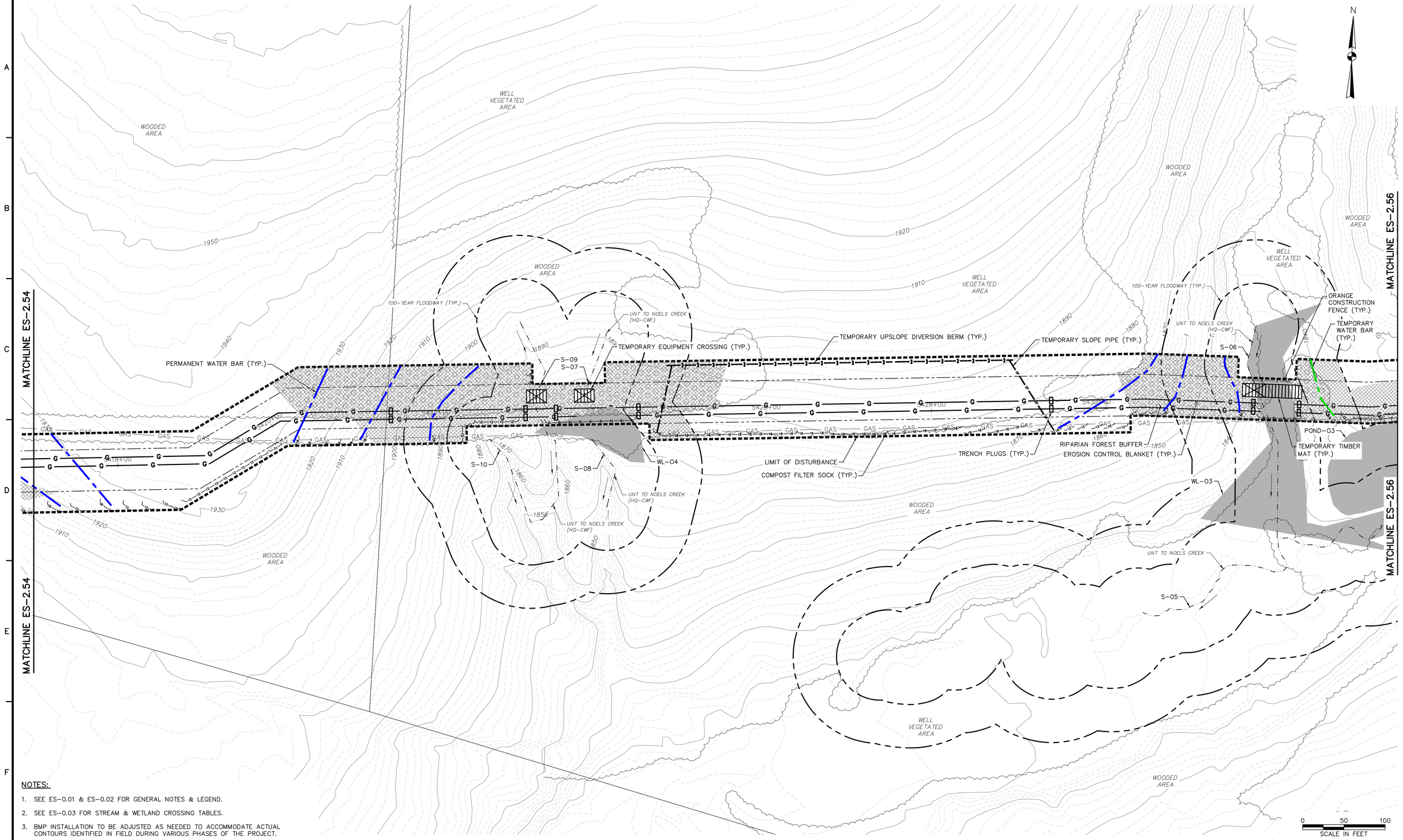
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PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 2

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

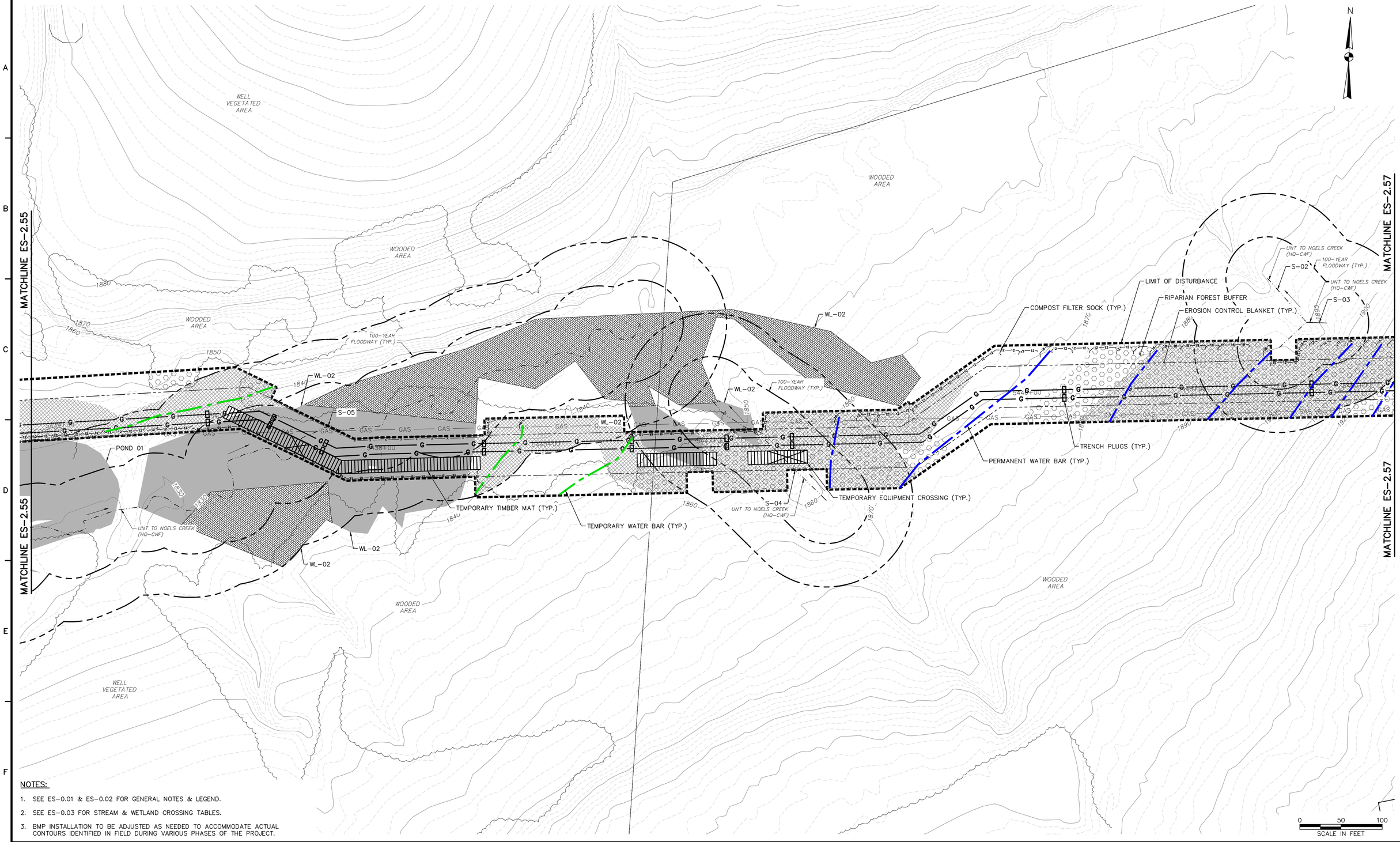
CAMBRIA COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 55 OF 75

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SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 2

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

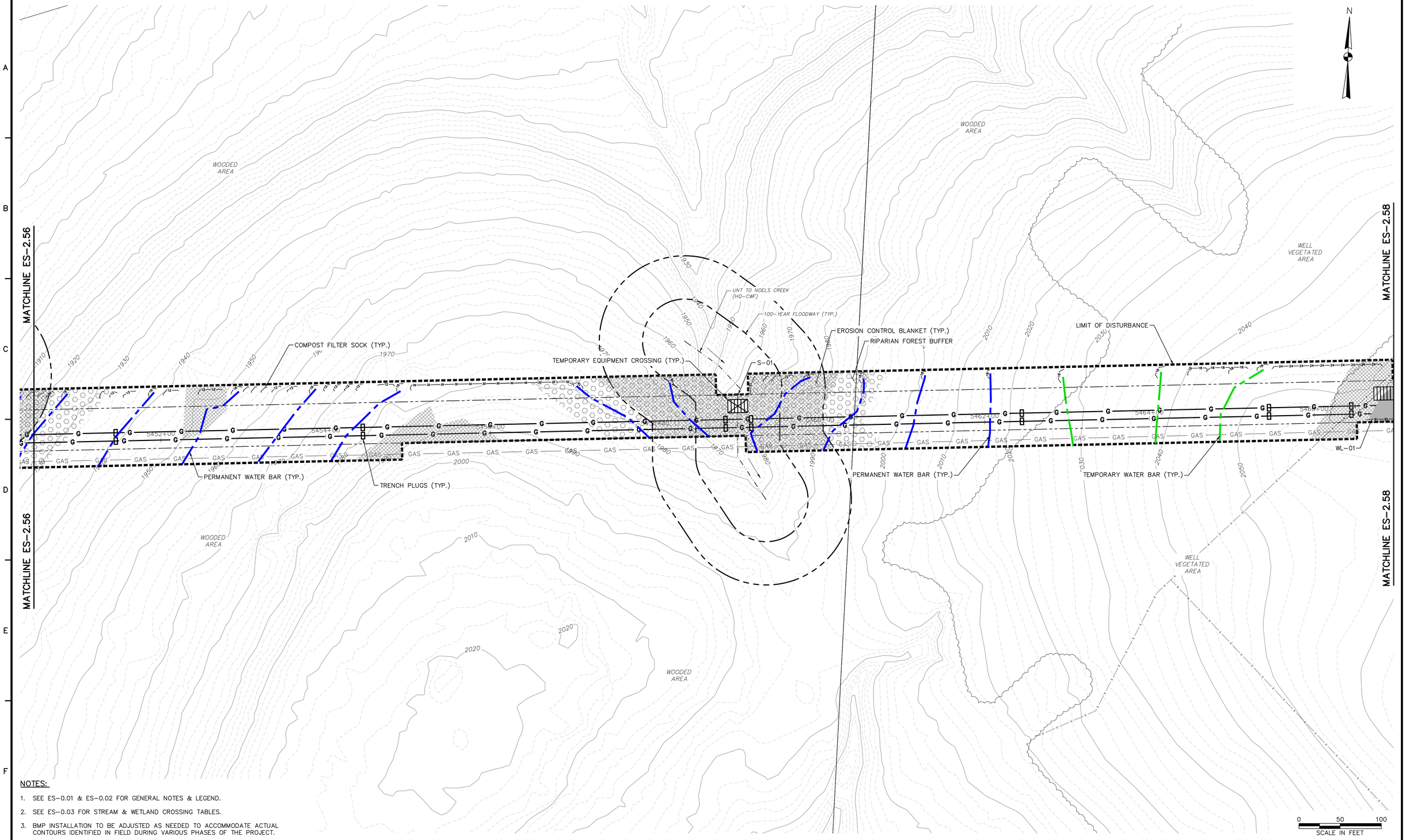
CAMBRIA COUNTY CONSERVATION DISTRICT
EROSION & SEDIMENT CONTROL &
SITE RESTORATION PLAN
SHEET 56 OF 75

DATE:	NOVEMBER 2016
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COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ENGINEER ROBERT F. SIMCIK

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 2

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

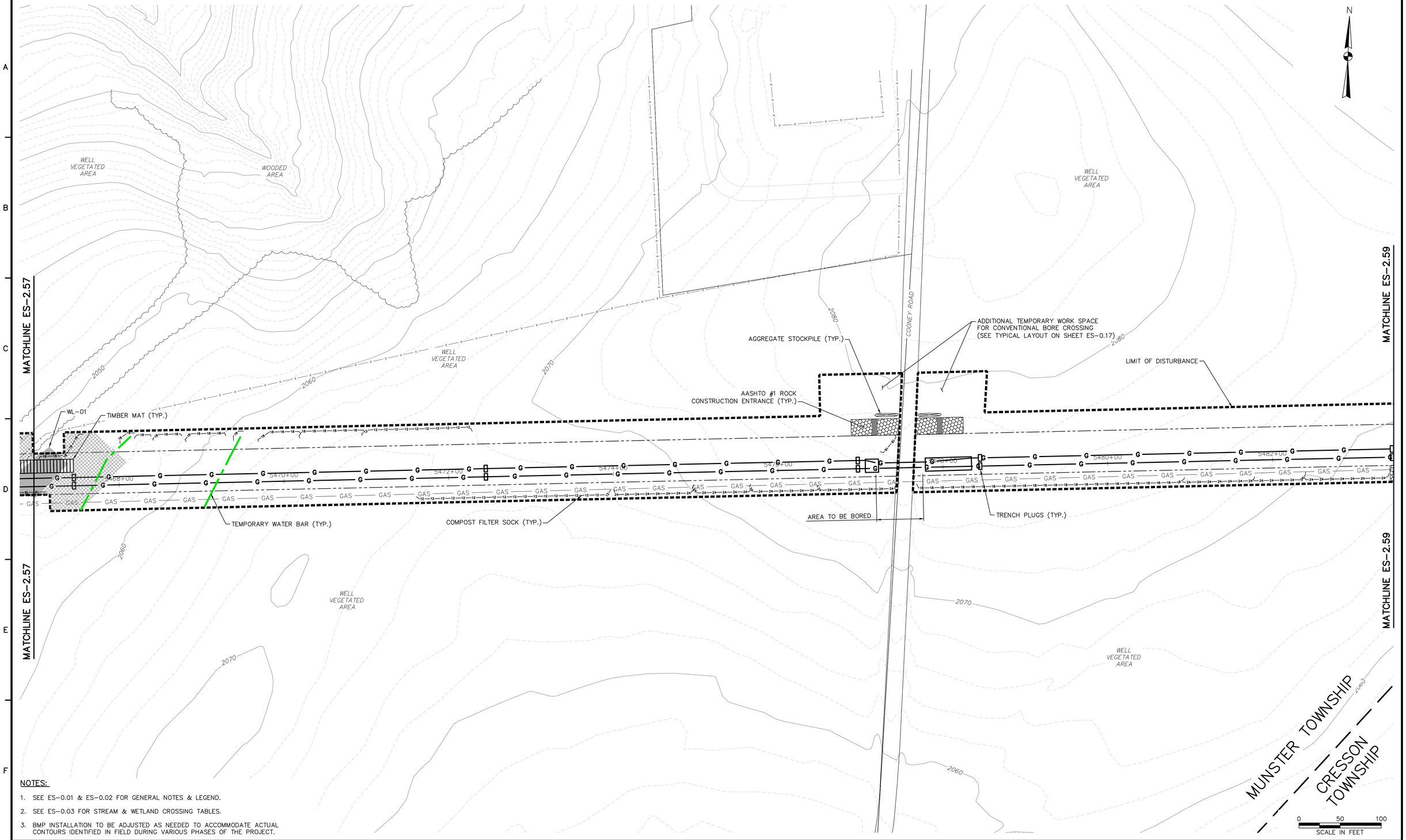
CAMBRIA COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 57 OF 75

DATE:	NOVEMBER 2016
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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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COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ENGINEER ROBERT F. SIMCIK PE-030436-E

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PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 2

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

CAMBRIA COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 58 OF 75

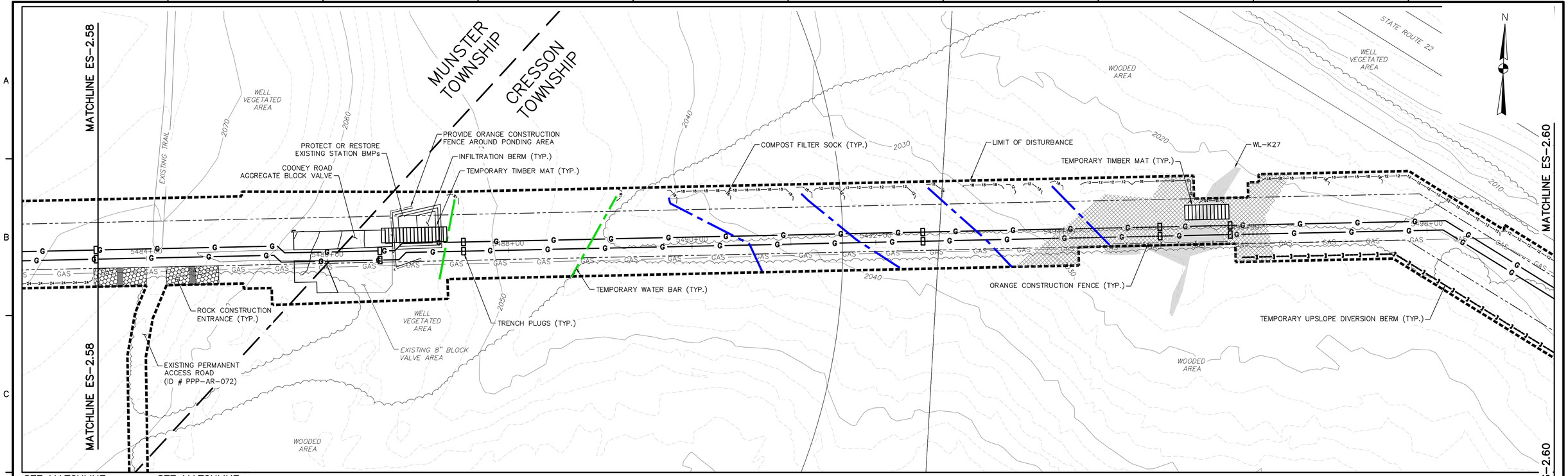
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NOTES:

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

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SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 2

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

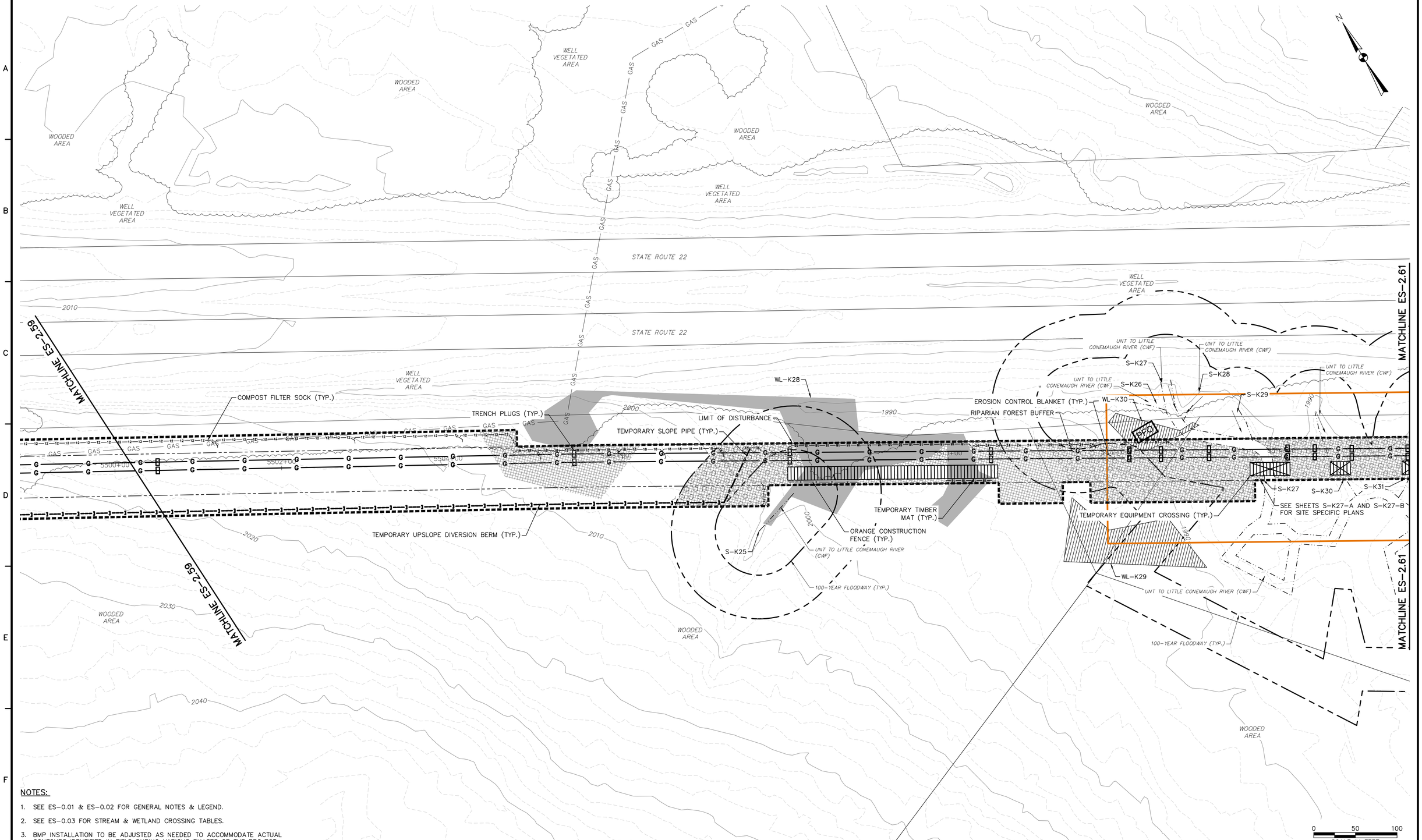
CAMBRIA COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 59 OF 75

DATE:	NOVEMBER 2016
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NOTES:

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

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COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL ENGINEER — ROBERT F. SIMCIK

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 2

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

CAMBRIA COUNTY CONSERVATION DISTRICT
EROSION & SEDIMENT CONTROL &
SITE RESTORATION PLAN
SHEET 60 OF 75

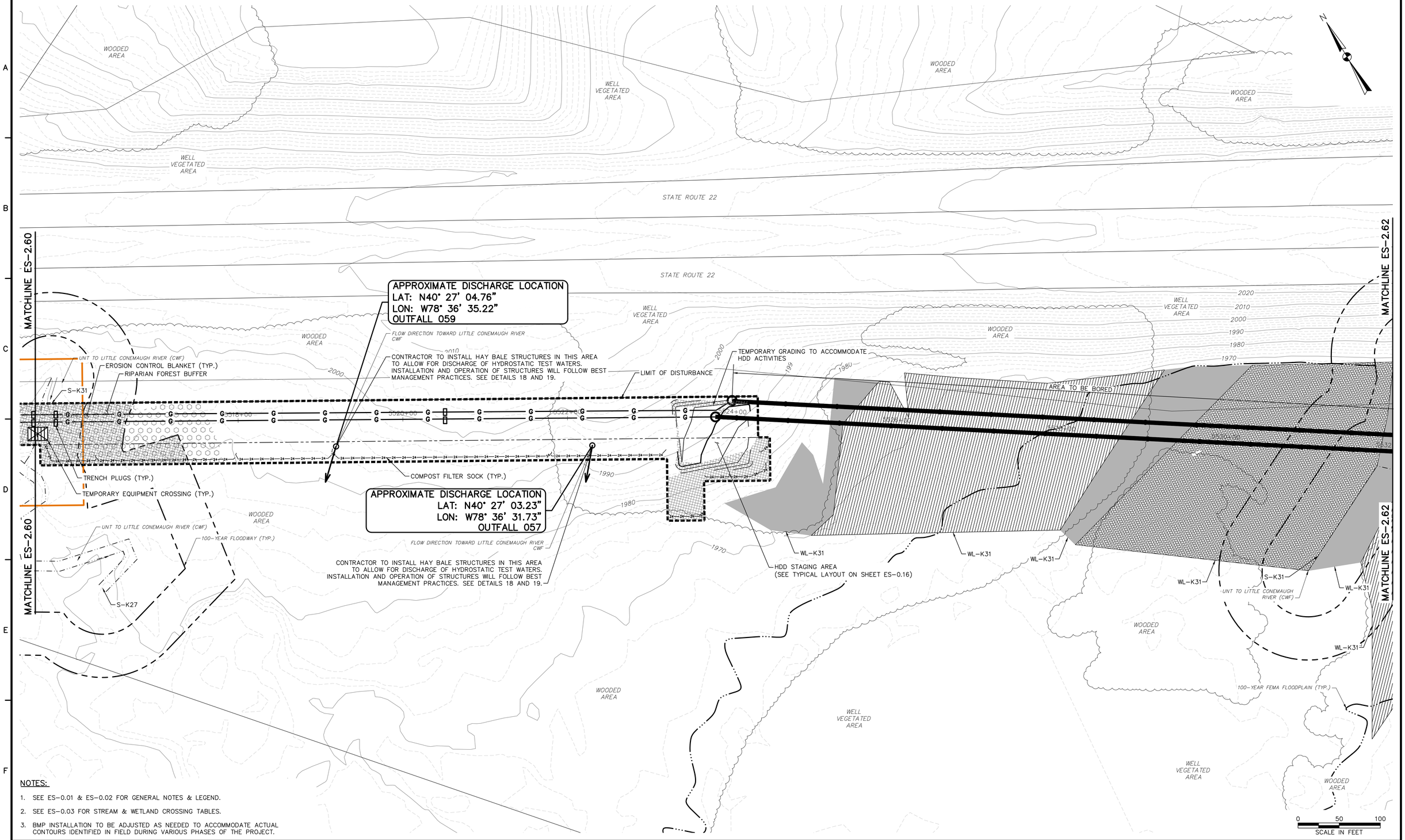
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NOTES:

1. SEE ES-0.01 & ES-0.02 FOR GENERAL NOTES & LEGEND.
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NO.	BY	DATE	REMARKS

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ENGINEER ROBERT F. SIMCIK PE-059435-E

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 2

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

CAMBRIA COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 61 OF 75

DATE:	NOVEMBER 2016
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SEE MATCHLINE ES-2.62A THIS SHEET

SEE MATCHLINE ES-2.62A THIS SHEET

SEE MATCHLINE ES-2.62B THIS SHEET

SEE MATCHLINE ES-2.62B THIS SHEET

MATCHLINE ES-2.61

MATCHLINE ES-2.61

WL-K31

WL-K31

S-K33

WL-K31

UNT TO LITTLE CONEMAUGH RIVER (CWF)

100-YEAR FLOODWAY (TYP.)

EROSION CONTROL BLANKET (TYP.)

S-K32

RIPARIAN FOREST BUFFER

AREA TO BE BORED

5532+00

5534+00

5536+00

LIMIT OF DISTURBANCE

TEMPORARY GRADING TO ACCOMMODATE HDD ACTIVITIES

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

APPROXIMATE DISCHARGE LOCATION
LAT: N40° 26' 52.92"
LON: W78° 36' 14.67"
OUTFALL 058

FLOW DIRECTION TOWARD UNT TO LITTLE CONEMAUGH RIVER CWF

CONTRACTOR TO INSTALL HAY BALE STRUCTURES IN THIS AREA TO ALLOW FOR DISCHARGE OF HYDROSTATIC TEST WATERS. INSTALLATION AND OPERATION OF STRUCTURES WILL FOLLOW BEST MANAGEMENT PRACTICES. SEE DETAILS 18 AND 19.

TEMPORARY SLOPE PIPE (TYP.)

5542+00

TEMPORARY UPSLOPE DIVERSION BERM (TYP.)

COMPOST FILTER SOCK (TYP.)

TRENCH PLUGS (TYP.)

5544+00

TEMPORARY WATER BAR (TYP.)

5546+00

5548+00

PERMANENT WATER BAR (TYP.)

EXISTING TEMPORARY ACCESS ROAD TO BE MAINTAINED ON EXISTING GRADE (ID # PPP-AR-073)

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

WOODED AREA

WELL VEGETATED AREA

EXISTING ASPHALT DRIVEWAY

WEST SECOND STREET

AGGREGATE STOCKPILE (TYP.)

AASHTO #1 ROCK CONSTRUCTION ENTRANCE (TYP.)

SEE MATCHLINE ES-2.62B THIS SHEET

SEE MATCHLINE ES-2.62B THIS SHEET

SEE MATCHLINE ES-2.62A THIS SHEET

SEE MATCHLINE ES-2.62A THIS SHEET

MATCHLINE ES-2.63

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COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ROBERT F. SIMCIK ENGINEER PE-059438-E

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 2

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

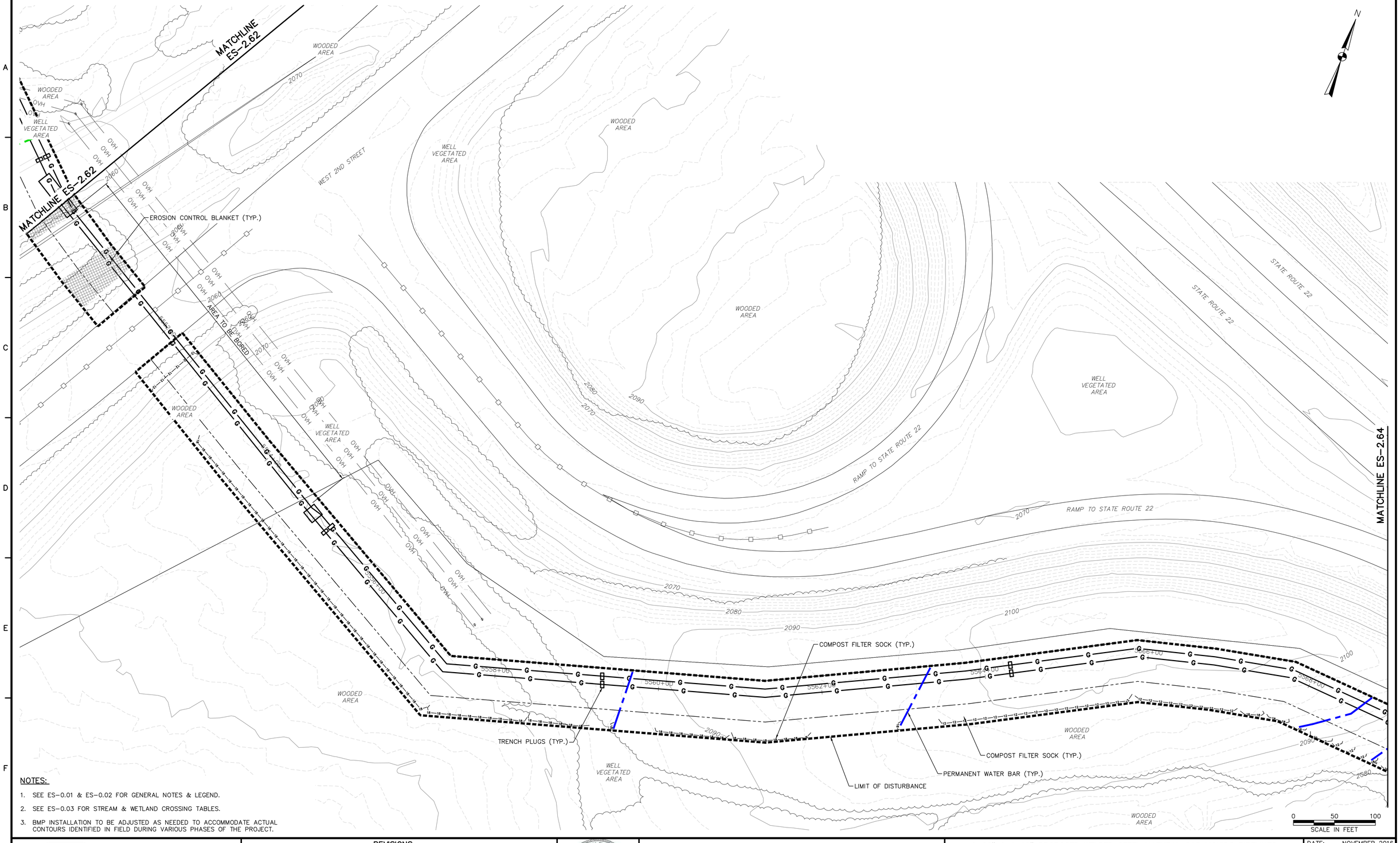
CAMBRIA COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 62 OF 75

DATE:	NOVEMBER 2016
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NO.	BY	DATE	REMARKS

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ENGINEER ROBERT F. SIMCIK 049384

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT
CONSTRUCTION SPREAD 2

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

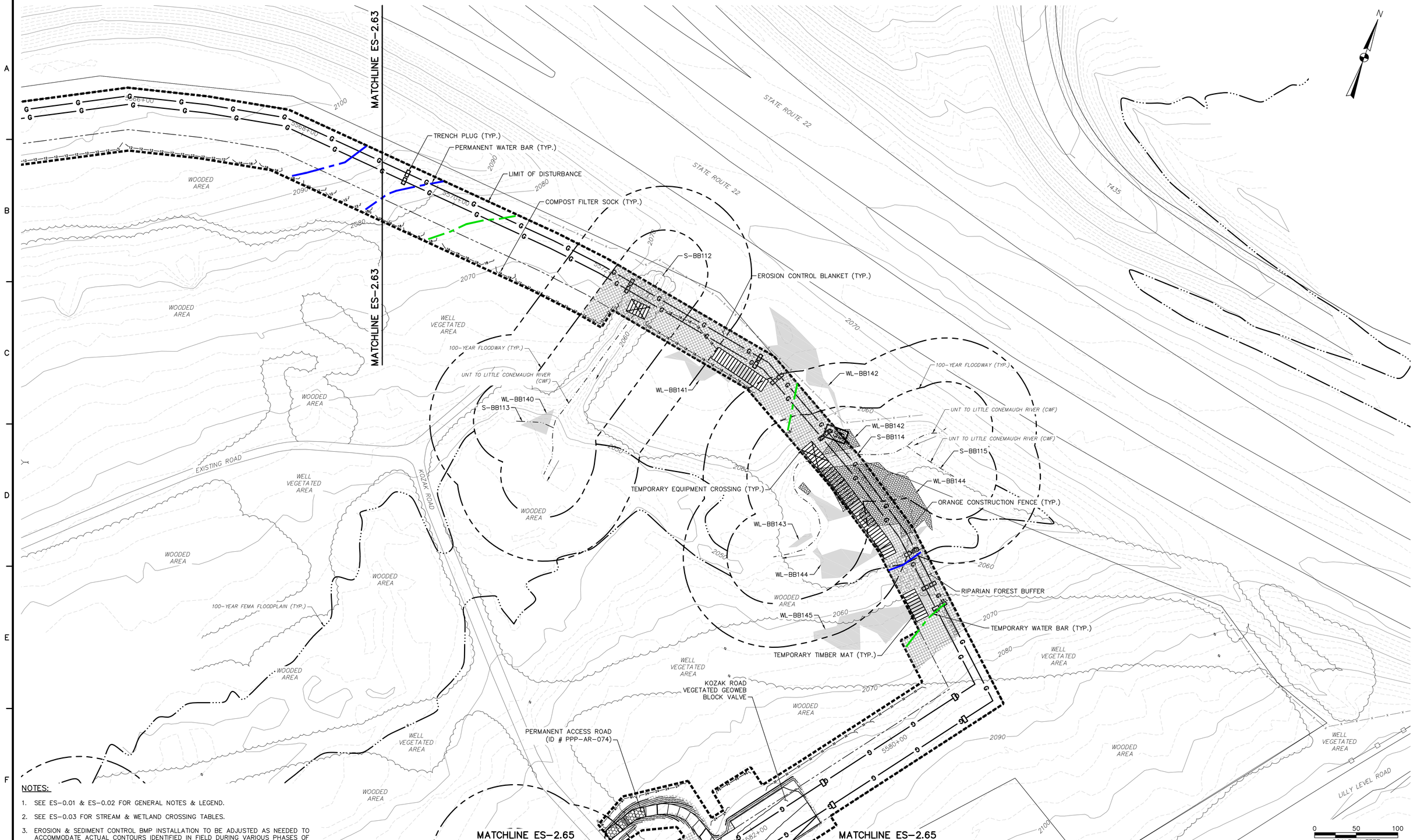
CAMBRIA COUNTY CONSERVATION DISTRICT
EROSION & SEDIMENT CONTROL &
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SHEET 63 OF 75

DATE:	NOVEMBER 2016
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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-035408-E

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 2

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

CAMBRIA COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 64 OF 75

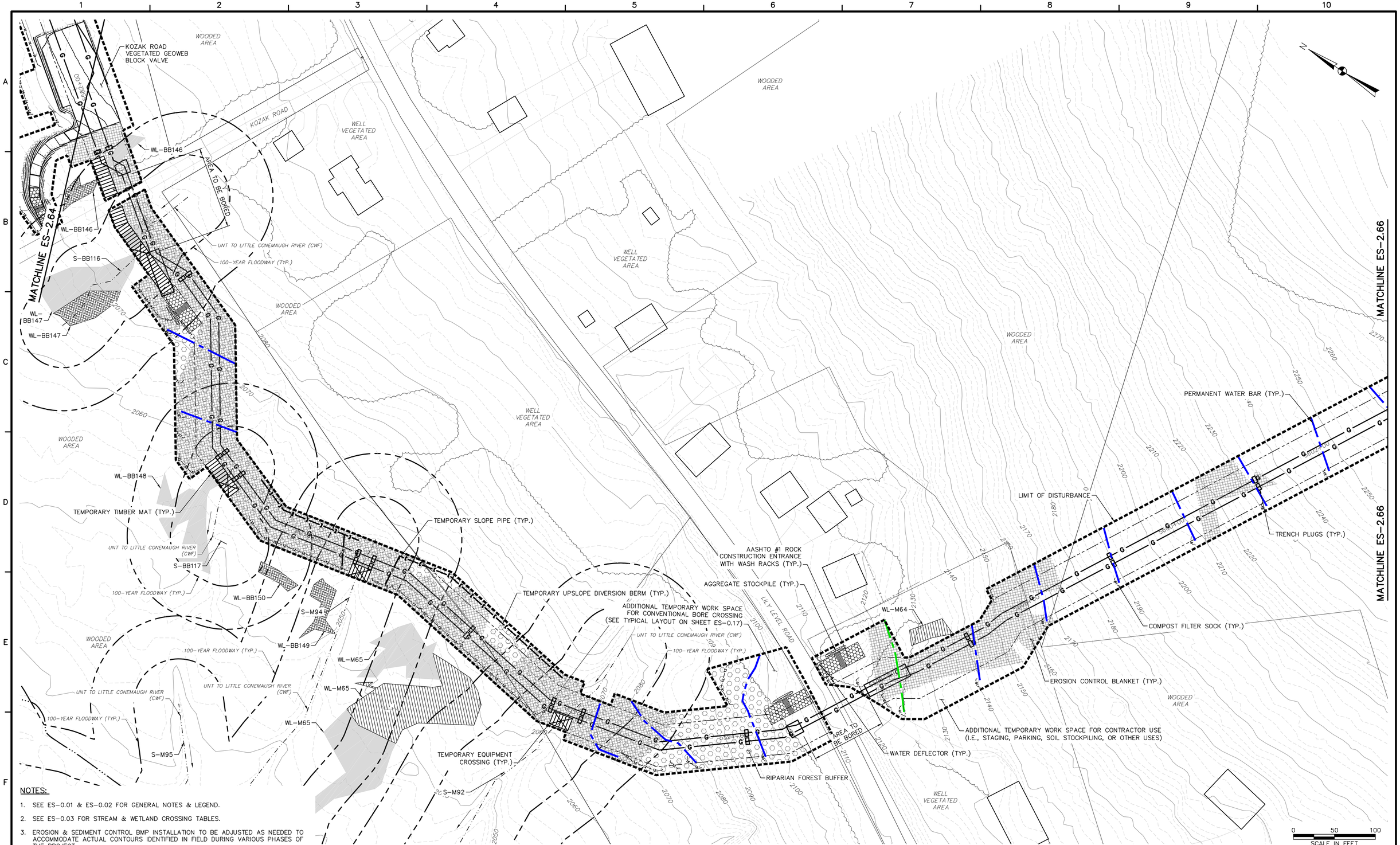
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NOTES:

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

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COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ROBERT F. SIMCIK ENGINEER PE-059438-E

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 2

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

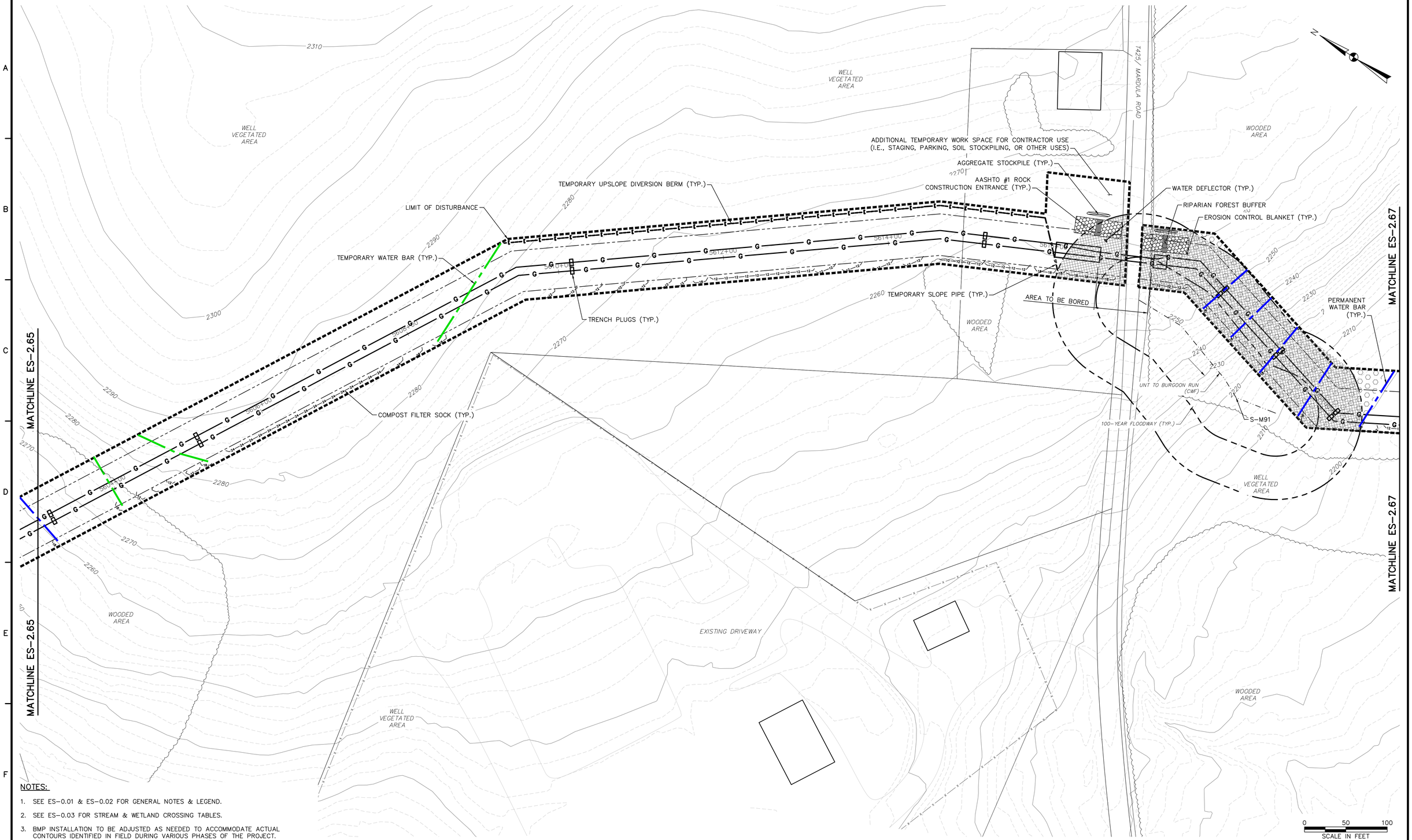
CAMBRIA COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 65 OF 75

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REVISIONS

NO.	BY	DATE	REMARKS

COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL — ROBERT F. SIMCIK — ENGINEER PE-039435-E

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 2

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

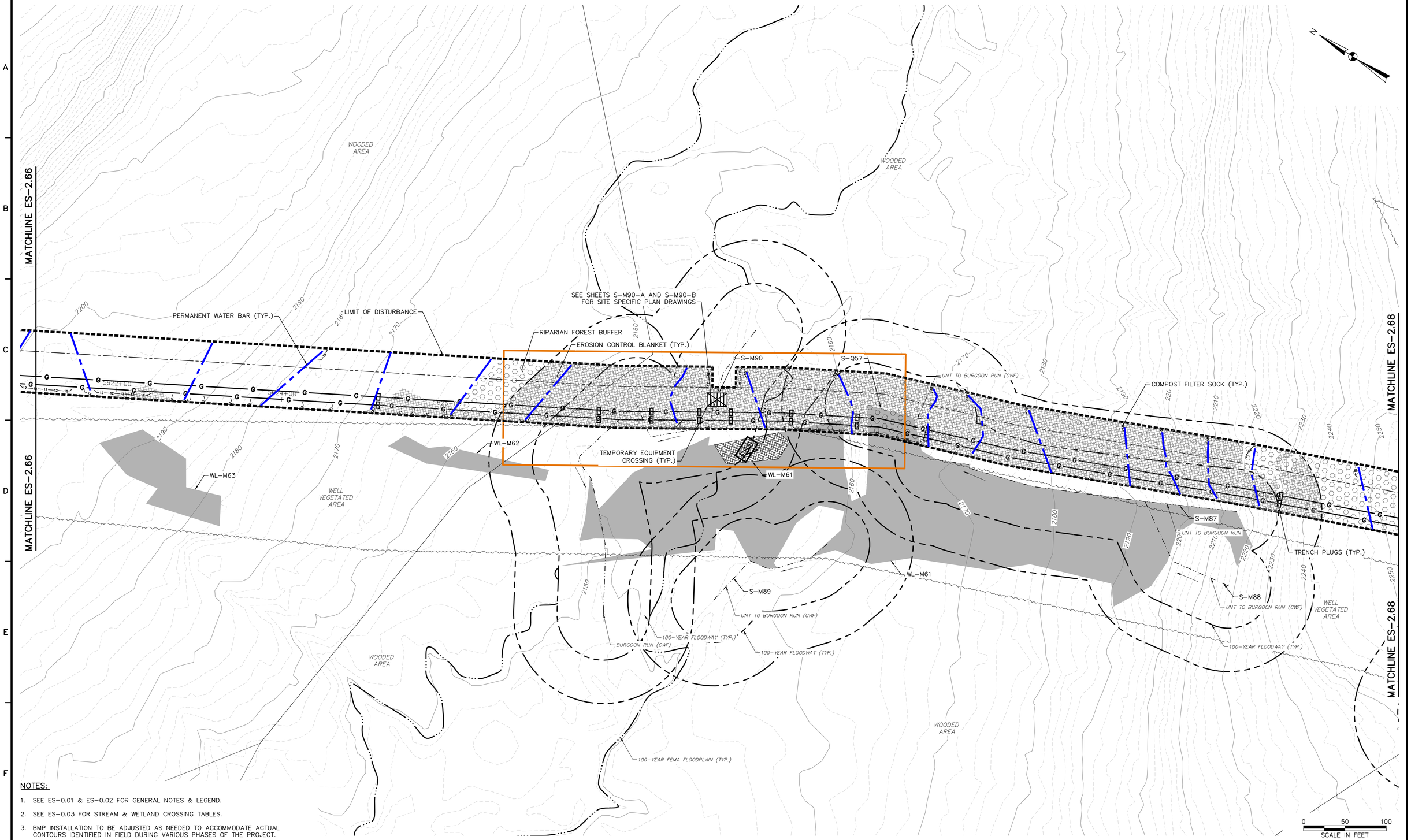
CAMBRIA COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 66 OF 75

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COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ENGINEER ROBERT F. SIMCIK

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 2

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

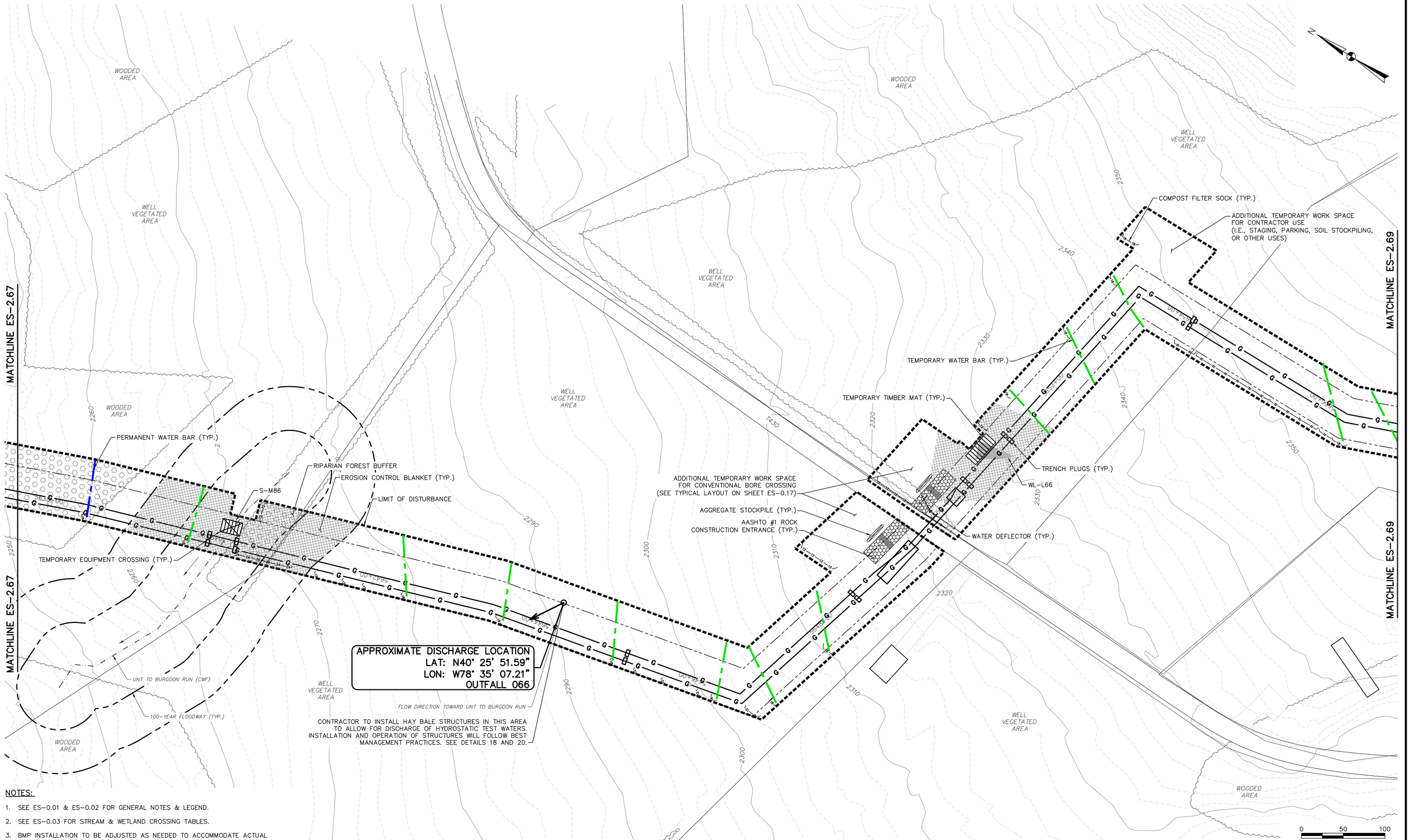
CAMBRIA COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 67 OF 75

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

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 2

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

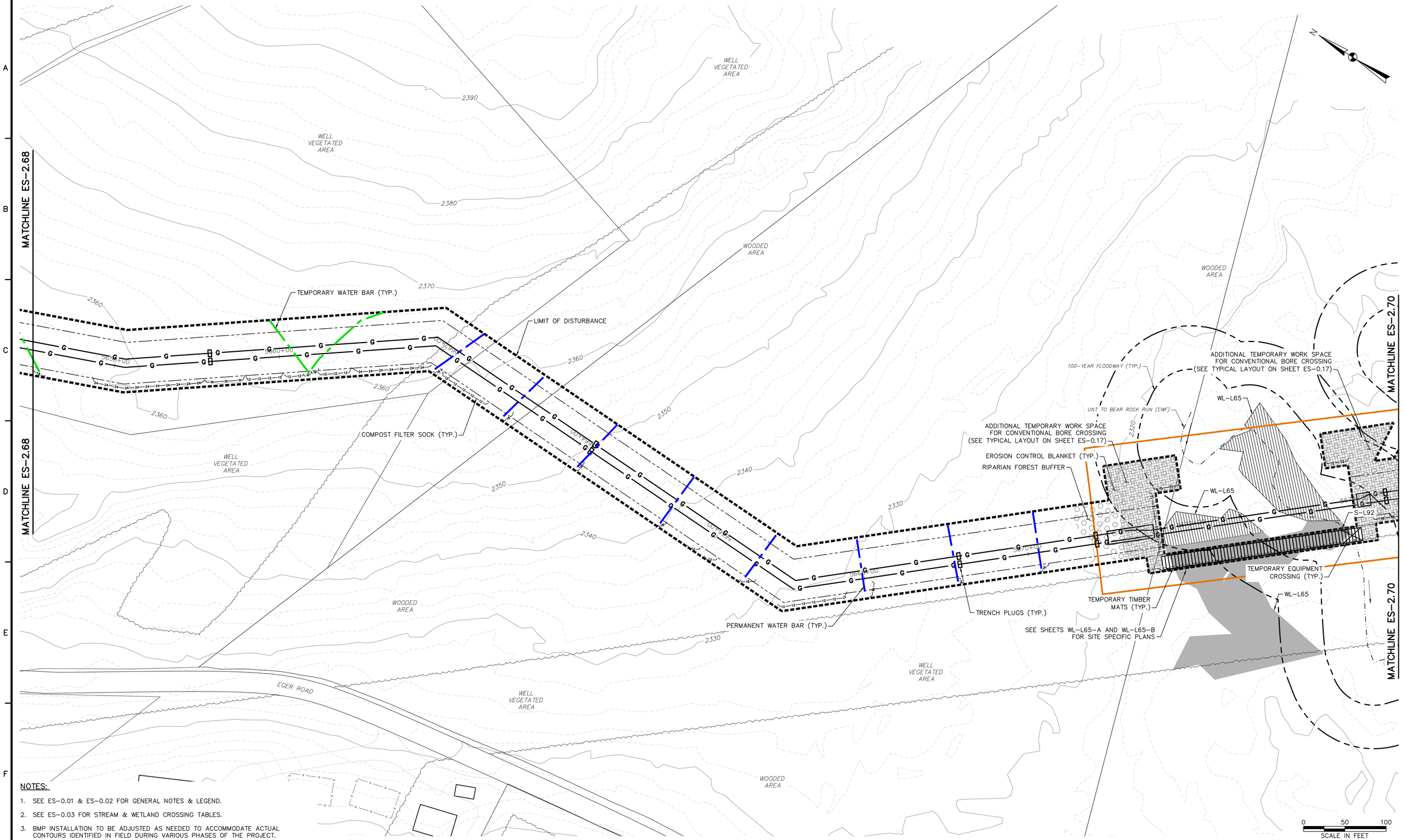
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SUNOCO PIPELINE L.P.
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PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 2

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

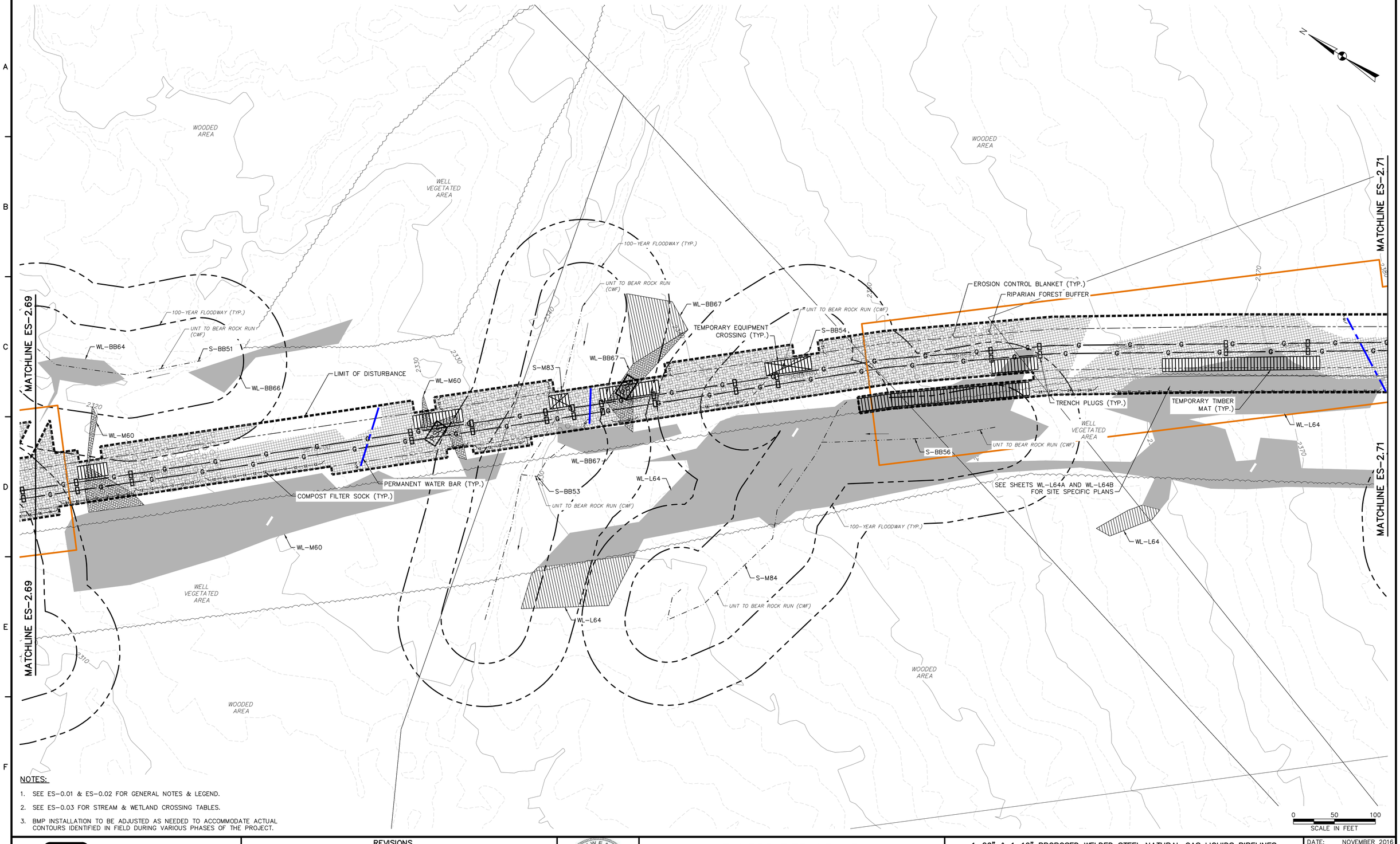
CAMBRIA COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 69 OF 75

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COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ENGINEER ROBERT F. SIMCIK

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 2

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

CAMBRIA COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 70 OF 75

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MATCHLINE ES-2.70

MATCHLINE ES-2.72

WOODED AREA

LIMIT OF DISTURBANCE

EROSION CONTROL BLANKET (TYP.)

RIPARIAN FOREST BUFFER

100-YEAR FLOODWAY (TYP.)

UNT TO BEAR ROCK RUN (CWF)

S-L90

COMPOST FILTER SOCK (TYP.)

TRENCH PLUGS (TYP.)

TEMPORARY TIMBER MAT (TYP.)

TEMPORARY EQUIPMENT CROSSING (TYP.)

PERMANENT WATER BAR (TYP.)

WL-L63

S-M82

S-L91

SEE SHEETS WL-L63-A AND WL-L63-B FOR SITE SPECIFIC PLANS

WELL VEGETATED AREA

WL-L64

CRESSON TOWNSHIP

WASHINGTON TOWNSHIP

NOTES:

1. SEE ES-0.01 & ES-0.02 FOR GENERAL NOTES & LEGEND.
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3. BMP INSTALLATION TO BE ADJUSTED AS NEEDED TO ACCOMMODATE ACTUAL CONTOURS IDENTIFIED IN FIELD DURING VARIOUS PHASES OF THE PROJECT.

0 50 100
SCALE IN FEET

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REVISIONS

NO.	BY	DATE	REMARKS

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ENGINEER ROBERT F. SIMCIK PE-030436-E

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 2

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

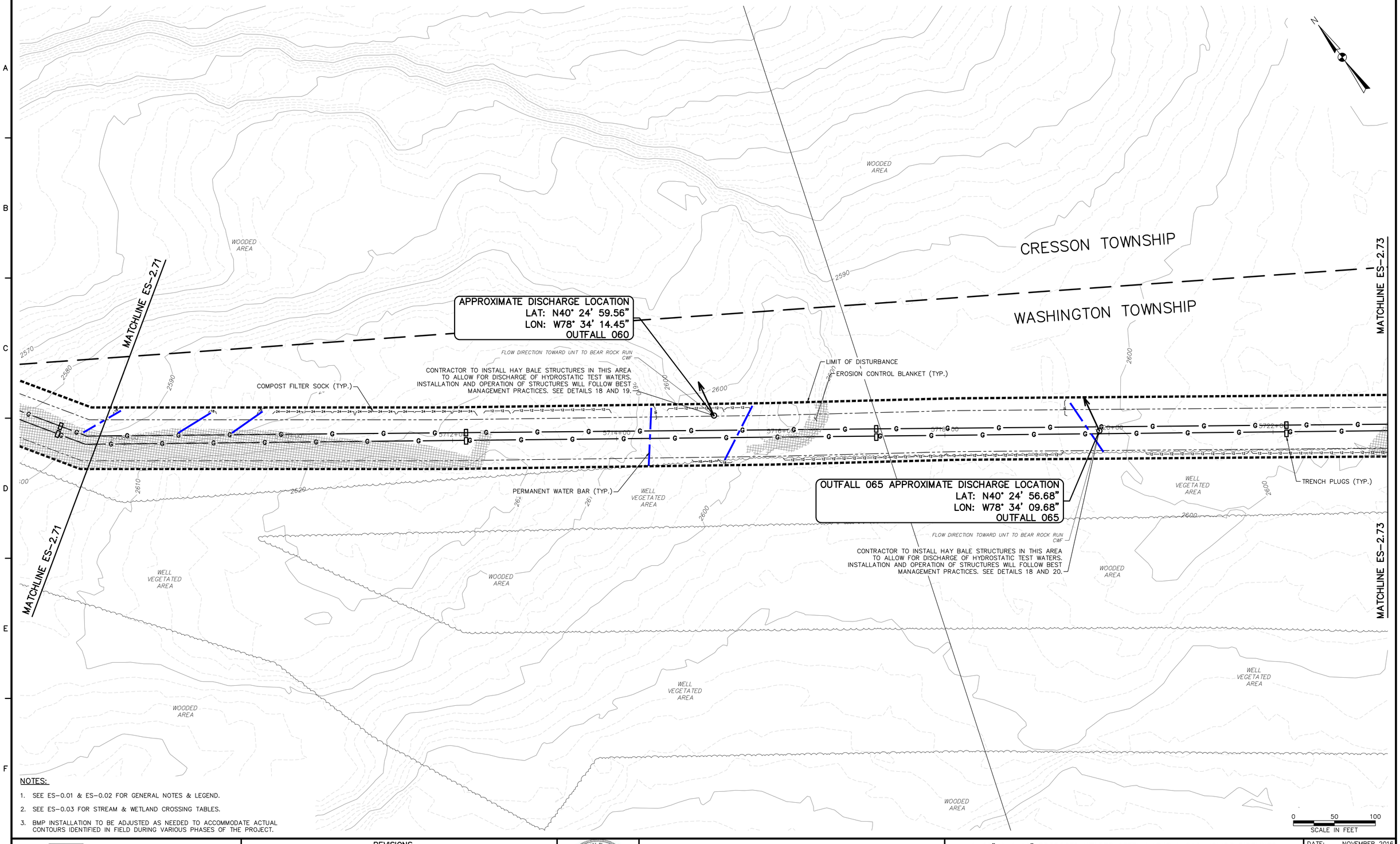
CAMBRIA COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 71 OF 75

DATE:	NOVEMBER 2016
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NOTES:

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NO.	BY	DATE	REMARKS

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ENGINEER ROBERT F. SIMCIK PE-059435-E

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 2

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

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

SHEET 72 OF 75

DATE:	NOVEMBER 2016
PROJECT NO.:	112C05958
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CRESSON TOWNSHIP

WASHINGTON TOWNSHIP

MATCHLINE ES-2.72

MATCHLINE ES-2.74

LIMIT OF DISTURBANCE

LIMIT OF DISTURBANCE

PERMANENT WATER BAR (TYP.)

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

COMPOST FILTER SOCK (TYP.)

TRENCH PLUGS (TYP.)

AREA TO BE BORED

WL-M59

S-M81

100-YEAR FLOODWAY (TYP.)

BEAR ROCK RUN (CWF)

5734+00

5736+00

5738+00

2600

WOODED AREA

WELL VEGETATED AREA

NOTES:

1. SEE ES-0.01 & ES-0.02 FOR GENERAL NOTES & LEGEND.
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0 50 100
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REVISIONS

NO.	BY	DATE	REMARKS

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
ROBERT F. SIMCIK
ENGINEER
PE-039435-E

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT
CONSTRUCTION SPREAD 2

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

CAMBRIA COUNTY CONSERVATION DISTRICT
EROSION & SEDIMENT CONTROL &
SITE RESTORATION PLAN
SHEET 73 OF 75

DATE:	NOVEMBER 2016
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CRESSON TOWNSHIP

WASHINGTON TOWNSHIP

MATCHLINE ES-2.73

MATCHLINE ES-2.75

WOODED AREA

WL-M59

WL-L62

WL-L67

WL-L68

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

AREA TO BE BORED

5742+00

5744+00

5746+00

5748+00

5750+00

5752+00

5754+00

5756+00

BENS CREEK-LITTLE CONEMAUGH RIVER HQ-CWF

BLAIR GAP RUN CWF

WELL VEGETATED AREA

100-YEAR FLOODWAY (TYP.)

UNT TO BLAIR RUN (CWF)

S-L93

COMPOST FILTER SOCK (TYP.)

LIMIT OF DISTURBANCE

TRENCH PLUGS (TYP.)

PERMANENT WATER BAR (TYP.)

2610 2620 2630 2600 2590 2580 2570 2560 2550 2540

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-030435-E

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 2

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

CAMBRIA COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 74 OF 75

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CRESSON TOWNSHIP
WASHINGTON TOWNSHIP
BLAIR COUNTY
CAMBRIA COUNTY
MATCHLINE ES-2.74
WOODED AREA
WELL VEGETATED AREA
UNT TO BLAIR RUN (CWF)
100-YEAR FLOODWAY (TYP.)
S-L93
S-L94
S-L95
WL-L68
WL-L69
WL-L70
WL-Q65
WL-BB111
S-Q71
LIMIT OF DISTURBANCE
COMPOST FILTER SOCK (TYP.)
PERMANENT WATER BAR (TYP.)
RIPARIAN FOREST BUFFER (TYP.)
TRENCH PLUGS (TYP.)
EROSION CONTROL BLANKET (TYP.)
SEE SHEETS WL-Q65-A AND WL-Q65-B FOR SITE SPECIFIC PLANS
PRO
JUNIATA TOWNSHIP
WASHINGTON TOWNSHIP
2560
2550
2540
2530
2520
2510
2500
2570
754+00
756+00
758+00
760+00
762+00
764+00
766+00
768+00
770+00
772+00
774+00
0 50 100
SCALE IN FEET

NOTES:

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COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ROBERT F. SIMCIK ENGINEER

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 2

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

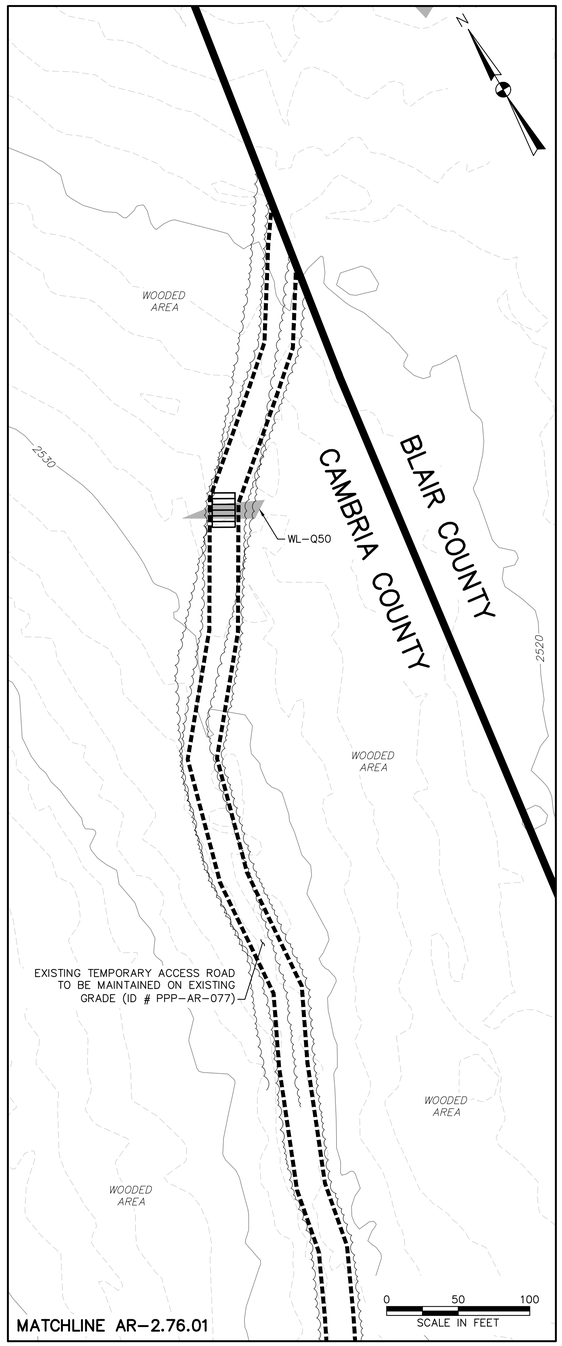
CAMBRIA COUNTY CONSERVATION DISTRICT EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN SHEET 75 OF 75

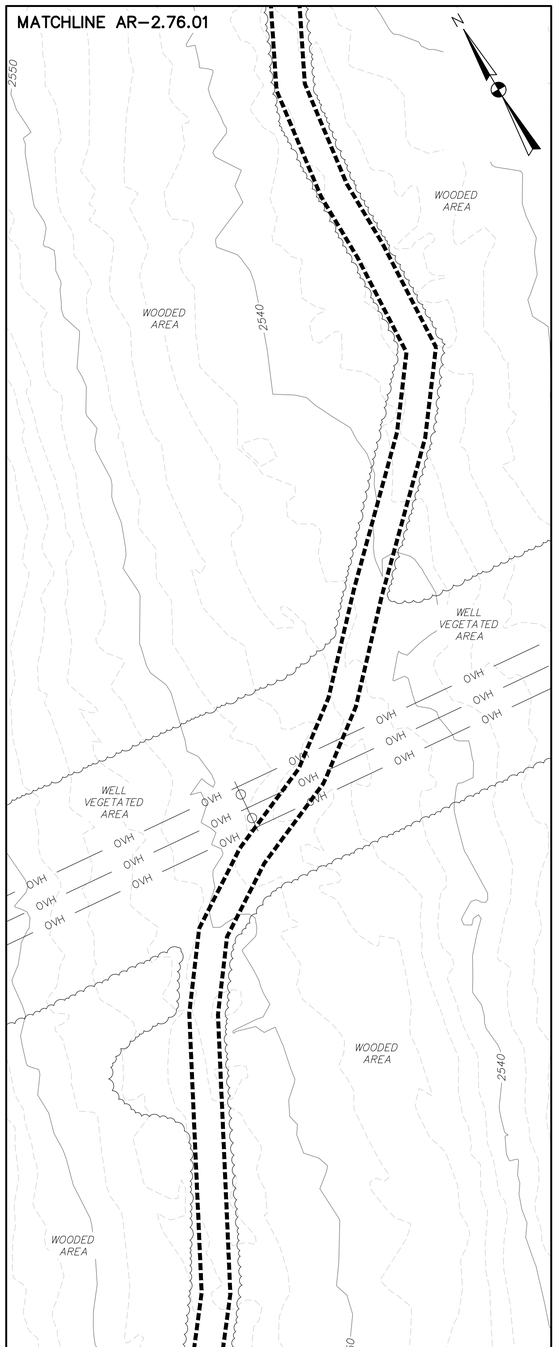
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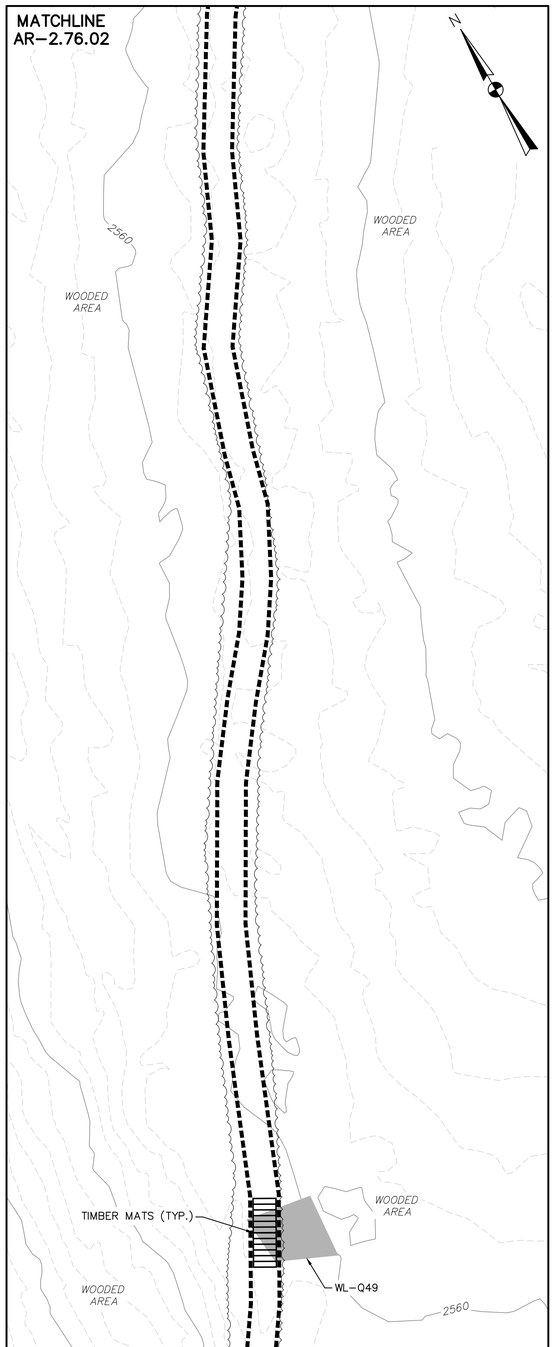
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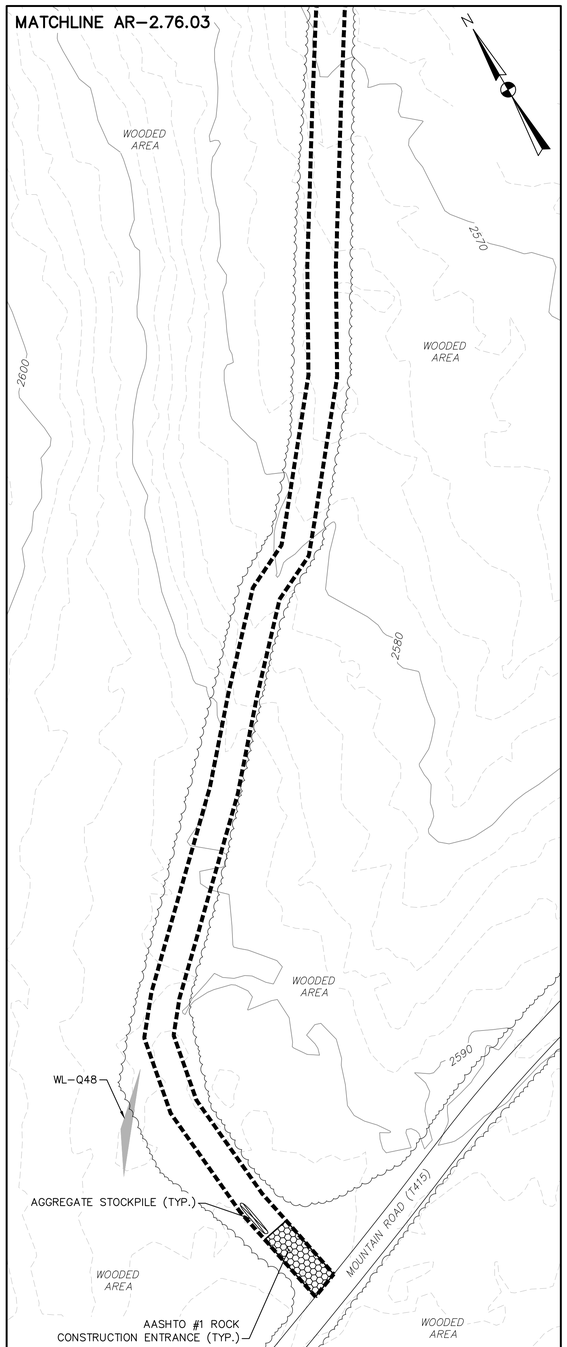
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NOTES:

1. SEE ES-0.01 & ES-0.02 FOR GENERAL NOTES & LEGEND.
2. SEE ES-0.03 FOR STREAM & WETLAND CROSSING TABLES.
3. 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

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT CONSTRUCTION SPREAD 2

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

CAMBRIA COUNTY CONSERVATION DISTRICT ACCESS ROAD EROSION & SEDIMENT CONTROL & SITE RESTORATION PLAN

DATE:	NOVEMBER 2016
PROJECT NO.:	112C05958
DESIGNED BY:	JB
DRAWN BY:	BH
CHECKED BY:	RS

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ES-2.76
SHEET 2.76 OF 102

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