

PLAN VIEW

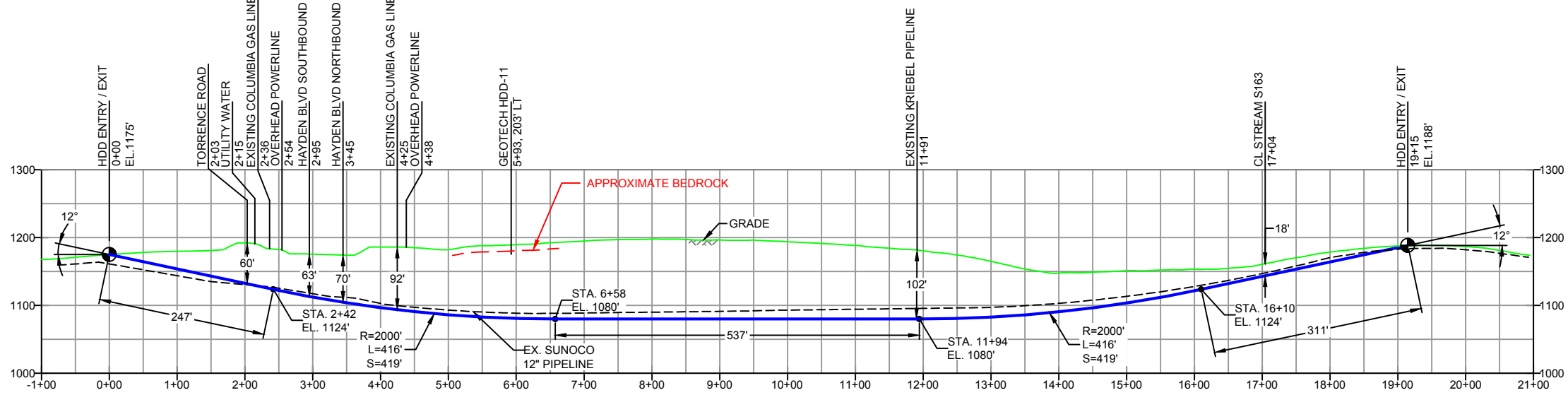
ALLEGHENY COUNTY, PENNSYLVANIA - FORWARD/ELIZABETH TOWNSHIPS
S1B-0160

PROFILE VIEW

GEOTECH HDD-11

- NG EL. 1176'
- CL (0.0' - 6.5')
- CL/SC (6.5' - 9.0')
- COMPLETION DEPTH EL. 1167'

NOTE: REFER TO TEST BORING LOG HDD-11 FOR COMPLETE SOIL MATERIAL DESCRIPTION



DESIGN AND CONSTRUCTION:

- CONTRACTOR SHALL FIELD VERIFY DEPTH OF ALL EXISTING UTILITIES SHOWN OR NOT SHOWN ON THIS DRAWING.
- THE MINIMUM SEPARATION DISTANCE FROM EXISTING SUBSURFACE UTILITIES SHALL NOT BE LESS THAN 10 FEET AS MEASURED FROM THE OUTSIDE EDGE OF THE UTILITY TO OUTSIDE OF PROPOSED PIPELINE.
- DESIGNED IN ACCORDANCE WITH CFR 49 195 & ASME B31.4
- CROSSING PIPE SPECIFICATION:
HDD HORZ. LENGTH (L=): 1915'
HDD PIPE LENGTH (S=): 1933'
20" x 0.456" W.T., X-65, API5L, PSL2, ERW, BFW
COATING: 14-16 MILS FBE WITH 30-35 MIL ARO (POWERCRETE R95)
- INTERNAL DESIGN PRESSURE 1480 PSIG (SEAM FACTOR 1.0, DESIGN FACTOR 0.50).
- INSTALLATION METHOD: HORIZONTAL DIRECTIONAL DRILL (HDD).
- PIPELINE WARNING MARKERS SHALL BE INSTALLED ON BOTH SIDES OF ALL ROAD, RAILWAY, AND STREAM CROSSINGS.
- CARRIER PIPE NOT ENCASED.
- PIPE / AMBIENT TEMPERATURE MUST BE NO LESS THAN 30°F DURING PULLBACK WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER.
- CONDUCT 4-HOUR PRE-INSTALLATION HYDROTEST OF HDD PIPE STRING TO MINIMUM 1850 PSIG.
- SEE SUNOCO PENNSYLVANIA PIPELINE PROJECT ESRI WEBMAP FOR ACCESS ROAD ALIGNMENT.
- SUNOCO PIPELINE, L.P.'S HORIZONTAL DIRECTIONAL DRILL INADVERTENT RETURN CONTINGENCY PLAN WILL BE IMPLEMENTED AT ALL TIMES.
- SUNOCO PIPELINE, L.P.'S EROSION AND SEDIMENTATION CONTROL PLAN WILL BE IMPLEMENTED AT ALL TIMES.

NOTES

- ALL COORDINATES SHOWN ARE IN LATITUDE AND LONGITUDE. ALL MSL ELEVATIONS ARE NAD83
- STATIONING IS BASED ON HORIZONTAL DISTANCES.
- ROONEY ENGINEERING, INC. AND SUNOCO PIPELINE, LP ARE NOT RESPONSIBLE FOR LOCATION OF FOREIGN UTILITIES SHOWN IN PLOT PLAN OR PROFILE. THE INFORMATION SHOWN HEREON IS FURNISHED WITHOUT LIABILITY ON THE PART OF ROONEY ENGINEERING, INC. AND SUNOCO PIPELINE, LP. FOR ANY DAMAGES RESULTING FROM ERRORS OR OMISSIONS THEREIN.
- CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UTILITIES. CONTACT ONE CALL AT 811 PRIOR TO DIGGING.
- SUNOCO EMERGENCY HOTLINE NUMBER IS #1-800-786-7440.

REF. DRAWING

| ES-1.22 | TO | ES-1.23 | EROSION & SEDIMENT PLAN |
|----------|----|----------|-------------------------|
| SHEET 15 | TO | SHEET 15 | AERIAL SITE PLAN |

REVISIONS

| NO. | DESCRIPTION | BY | DATE | CHK | DATE | APP | DATE |
|-----|---|-----|----------|-----|----------|-----|----------|
| EP3 | PADEP DRAWING REVISION PER DESIGN CHANGE 2/3/17 | MRS | 02/03/17 | CMG | 02/03/17 | JL | 02/03/17 |
| EP2 | REVISED PER PADEP COMMENTS RECEIVED 09-06-16 | MRS | 09/30/16 | RMB | 09/30/16 | AAW | 09/30/16 |
| EP1 | REVISED PER PADEP COMMENTS | MRS | 05/17/16 | RMB | 05/17/16 | AAW | 05/17/16 |
| EP | | DLM | 03/15/16 | RMB | 03/15/16 | AAW | 03/15/16 |

Sunoco Logistics Partners L.P.

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SUNOCO PIPELINE, L.P.

20-INCH PIPE HORIZONTAL DIRECTIONAL DRILL
HAYDEN BOULEVARD
PENNSYLVANIA PIPELINE PROJECT

SCALE: 1"=200'
DWG. NO: PA-AL-0033.000-RD