



- DESIGN AND CONSTRUCTION:

 1. CONTRACTOR SHALL FIELD VERIFY DEPTH OF ALL EXITING UTILITIES SHOWN OR NOT SHOWN ON THIS DRAWNING.

 2. 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 DIPLY.
- PIPELINE.
 DESIGNED IN ACCORDANCE WITH CFR 49 195 & ASME B31.4
- CROSSING PIPE SPECIFICATION:
 HDD HORZ. LENGTH (L=): 2980'
 HDD PIPE LENGTH (S=): 2989'
 16" x 0 438" W.T., X-70, APISL, PSL2, ERW, BFW
- INTERNAL DESIGN PRESSURE 1480 PSIG (SEAM FACTOR 1.0, DESIGN FACTOR 0.50 (HOOP STRESS)). INSTALLATION METHOD: HORIZONTAL DIRECTIONAL DRILL (HDD). PIPELINE WARNING MARKERS SHALL BE INSTALLED ON BOTH SIDES OF ALL ROAD, RAILWAY, AND STREAM CROSSINGS.

- STREAM CRUSSINGS.

 CARRIER PIPE NOT ENCASED.

 PIPE I 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.
- 11. PIPELINE AND CROSSING TO BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH LAST APPROVED AMERICAN RAILWAY ENGINEERING AND MAINTENANCE OF WAY ASSOCIATION SPECIFICATIONS FOR PIPELINES CONVEYING FLAMMABLE AND NON-FLAMMABLE SUBSTANCES.
- BLASTING NOT PERMITTED.
 SEE SUNOCO PENNSYLVANIA PIPELINE PROJECT ESRI WEBMAP FOR ACCESS ROAD ALIGNMENT.

	COATING: 14-16 MILS FBE WITH 40 MILS MIN. ARO (POWERCRETE R95)												
	NOTES		REF. DRAWING			REVISIONS							
2. ST 3. RC OF FL LF 4. CC	2. STATIONING IS BASED ON HORIZONTAL DISTANCES.	ES-6.32	то	ES-6.34	EROSION & SEDIMENT PLAN						·		
		SHEET 21	то	SHEET 22	AERIAL SITE PLAN						i T		
						EP1	REVISED PER PADEP COMMENTS	MRS	05/10/16	RMB	05/10/16	AAW	05/10/16
						EP		MRS	12/08/15	RMB	12/08/15	AAW	12/08/15
						В	ISSUED FOR BID	MRS	08/31/15	RMB	08/31/15	AAW	08/31/15
						Α	ISSUED FOR REVIEW	MRS	08/14/15	RMB	08/14/15	AAW	08/14/15
	1	DWG NO		DWG NO	DESCRIPTION	NO.	DESCRIPTION	BY	DATE	CHK	DATE	APP	DATE



TETRA TECH ROONEY (303) 792-5911

SUNOCO PIPELINE, L.P.

16-INCH HORIZONTAL DIRECTIONAL DRILL COMMERCE DRIVE / CSX RAILROAD PENNSYLVANIA PIPELINE PROJECT

SCALE:	1"=250'	DWG. NO: PA-DE-0104.0023-RR-16