



February 27, 2018

Via E-mail and overnight Fed Ex

Mr. Domenic Rocco
Program Manager
Department of Environmental Protection
Waterways and Wetlands Program
Southeast Regional Office
2 East Main Street
Norristown, Pennsylvania 19401

**Re: Sunoco Pipeline L.P. – Pennsylvania Pipeline Project (Mariner East II)
E&S Permit Nos.: ESG0300015002; ESG0500015001; ESG0100015001
WO&E Permit Nos.: E02-1718; E06-701; E07-459; E11-352; E15-862; E21-449; E22-619; E23-524; E31-234; E32-508; E34-136; E36-945; E38-194; E50-258; E63-674; E65-973; E67-920
Project-wide Request to Allow Contractors to Replace Conventional Auger Bore with a Cradle Bore**

Dear Mr. Rocco,

On behalf of Sunoco Pipeline L.P. (SPLP), please accept this letter and enclosed drawing and information as a request to the Pennsylvania Department of Environmental Protection (Department) for a blanket, Project-wide modification to the above-referenced Chapter 102 and 105 authorizations.

If approved by the Department, this modification would allow the contractor, at their discretion, to change the method of installation at authorized conventional auger bore sites to a cradle bore without further approval by the Department. A cradle bore is a minor variation of the conventional auger, and is different in that the boring unit is suspended within a trench using side booms and track hoes and is operated without the need to build a pit for construction workers. The cradle bore, also similar to the conventional auger bore, will be dry and will not use water, mud, or air to assist the auger. The entry and exits and profiles would remain the same as a conventional auger bore, and in cases where waters of the Commonwealth are crossed, the method change would not result in any increase to previously authorize temporary or permanent Chapter 105 impacts to waters of the Commonwealth. I have attached a typical detail for the cradle bore that will be used along with approved erosion and sediment control plans whenever this auger bore variation is planned.

SPLP appreciates your timely review of this Project-wide modification request. Should you have questions regarding this correspondence, please do not hesitate to contact me at 412-921-8163 or via e-mail at Robert.Simcik@tetrattech.com.

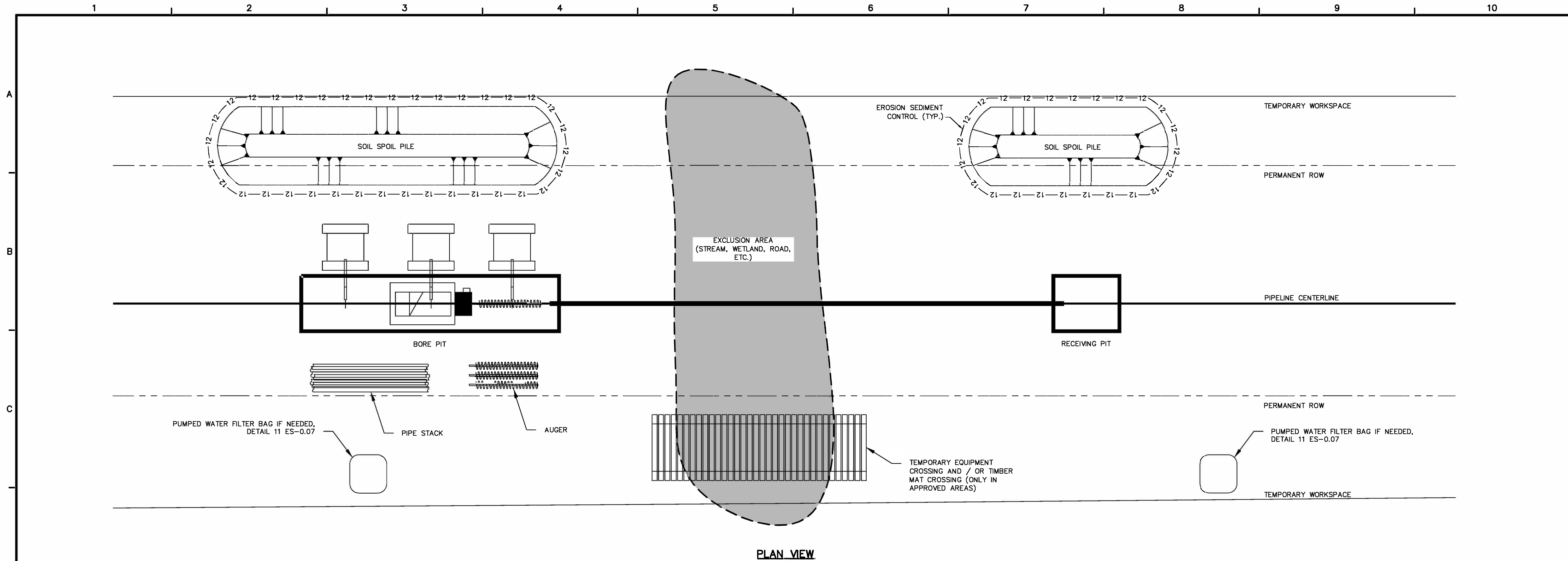
Sincerely,

A handwritten signature in black ink, appearing to read 'Robert F. Simcik'.

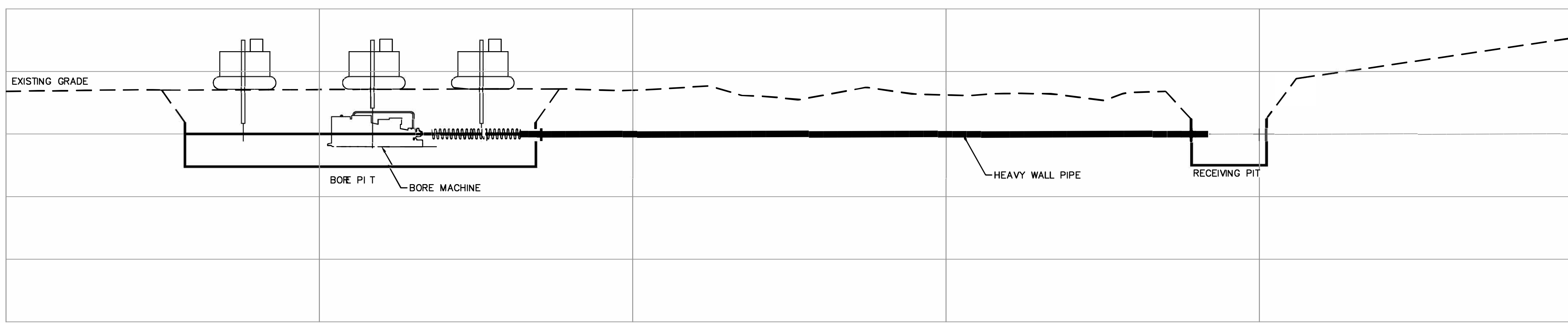
Robert F. Simcik, P.E.
Project Manager
Tetra Tech, Inc.

Enclosures: 1 original, 1 copy

cc: File 112IC05958
M. Gordon, Sunoco Pipeline L.P.
M. Styles, Sunoco Pipeline L.P.
C. Embry, Sunoco Pipeline L.P.
B. Schaeffer, Tetra Tech
L. Gremminger, Gremminger and Associates



PLAN VIEW



PROFILE VIEW

TYPICAL CRADLE BORE CROSSING LAYOUT
NOT TO SCALE

NOTES:

1. LAYOUT WILL VARY ACCORDING TO AVAILABLE WORK SPACE AND FIELD CONDITIONS.
2. WORKSPACE AVAILABLE FOR PARKING, STAGING, AND OTHER USES WHEN NOT BEING USED FOR BORING.
2. INSTALL COMPOST FILTER SOCKS/SILT FENCE ALONG THE DOWN GRADIENT PERIMETERS OF THE BORE PITS. SEE SITE PLANS FOR E&S CONTROLS.
3. EXCAVATE BORE PITS IN ACCORDANCE WITH SITE-SPECIFIC PLANS AND SEGREGATE TOP SOIL IN ACCORDANCE WITH STANDARD E&S PLAN NOTES. POSITION BORE PITS A MINIMUM OF 50 FEET FROM THE NEAREST TOP OF BANK, WHERE TECHNICALLY FEASIBLE.
4. THE CROSSING LENGTH IS DEPENDENT UPON THE OBSTACLE TO BE CROSSED, AND THE SURFACE AND SUBSURFACE CONDITIONS.



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REVISIONS			
NO.	BY	DATE	REMARKS

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA

PENNSYLVANIA PIPELINE PROJECT

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

TYPICAL CRADLE BORE DETAIL

DATE:	1/11/2018
PROJECT NO.:	112C05958
DESIGNED BY:	JB
DRAWN BY:	BH
CHECKED BY:	RS
COPYRIGHT TETRA TECH INC.	
Project-wide	
SHEET 1 OF 1	