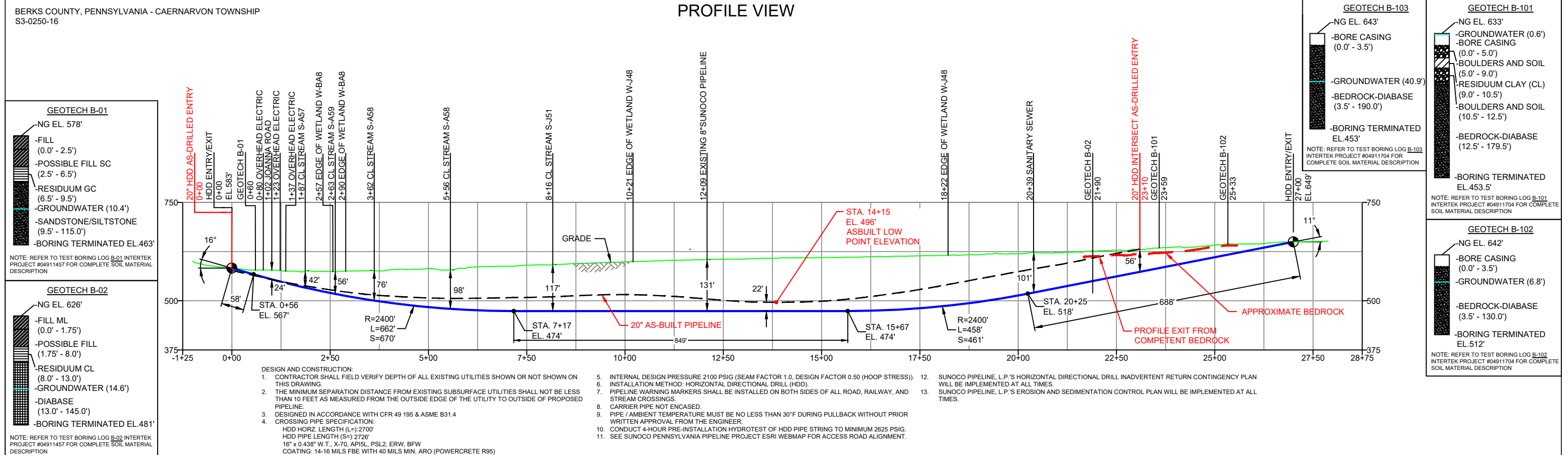


PROFILE VIEW



NOTES		REF. DRAWING		REVISIONS		SUNOCO PIPELINE, L.P.								
<p>1. ALL COORDINATES SHOWN ARE IN LATITUDE AND LONGITUDE. ALL MSL ELEVATIONS ARE NAD83</p> <p>2. STATIONING IS BASED ON HORIZONTAL DISTANCES</p> <p>3. 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.</p> <p>4. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UTILITIES. CONTACT ONE CALL AT 811 PRIOR TO DIGGING.</p> <p>5. SUNOCO EMERGENCY HOTLINE NUMBER IS #1-800-786-7440.</p>		<p>EP-5.68 TO ES-5.69 EROSION & SEDIMENT PLAN</p> <p>SHEET 40 TO SHEET 41 AERIAL SITE PLAN</p>		<p>DESIGN CHANGE - EXTENDED DRILL & ADDED GEOTECH</p> <p>ADDED 20" AS-BUILT INFORMATION AND ADDITIONAL GEOTECH</p> <p>UPDATED TO MATCH 16" IFC DESIGN AND NOTE 5 AND 10 PER INCREASED 16" MOP</p> <p>REVISED PER PADEP COMMENTS RECEIVED 09-06-16</p> <p>REVISED PER PADEP COMMENTS</p>		<p>MRS 01/17/19 RMB 01/17/19 AMC 01/17/19</p> <p>MRS 11/28/18 RMB 11/28/18 AMC 11/28/18</p> <p>MRS 05/10/18 RMB 05/10/18 AMC 05/10/18</p> <p>MRS 10/21/16 RMB 10/21/16 AAW 10/21/16</p> <p>JTW 05/18/16 RMB 05/18/16 AAW 05/18/16</p> <p>MRS 03/15/16 RMB 03/15/16 AAW 03/15/16</p>			<p>Sunoco Logistics Partners L.P.</p> <p>TETRA TECH ROONEY (303) 792-5911</p>			<p>HORIZONTAL DIRECTIONAL DRILL JOANNA ROAD PENNSYLVANIA PIPELINE PROJECT</p>		
<p>1. CONTRACTOR SHALL FIELD VERIFY DEPTH OF ALL EXISTING UTILITIES SHOWN OR NOT SHOWN ON THIS DRAWING.</p> <p>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 PIPELINE.</p> <p>3. DESIGNED IN ACCORDANCE WITH CFR 49 195 & ASME B31.4</p> <p>4. CROSSING PIPE SPECIFICATION: HDD HORZ. LENGTH (L)=2700' HDD PIPE LENGTH (S)=2720' 16" x 0.438" W.T., X-70, API 5L, PSL2, ERW, BFW COATING: 14-16 MILS FBE WITH 40 MILS MIN. ARO (POWERCURE R95)</p> <p>5. INTERNAL DESIGN PRESSURE 2100 PSIG (SEAM FACTOR 1.0, DESIGN FACTOR 0.50 (HOOP STRESS)).</p> <p>6. INSTALLATION METHOD: HORIZONTAL DIRECTIONAL DRILL (HDD).</p> <p>7. PIPELINE WARNING MARKERS SHALL BE INSTALLED ON BOTH SIDES OF ALL ROAD, RAILWAY, AND STREAM CROSSINGS.</p> <p>8. CARRIER PIPE NOT ENCASED.</p> <p>9. PIPE / AMBIENT TEMPERATURE MUST BE NO LESS THAN 30°F DURING PULLBACK WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER.</p> <p>10. CONDUCT 4-HOUR PRE-INSTALLATION HYDROTEST OF HDD PIPE STRING TO MINIMUM 2625 PSIG.</p> <p>11. SEE SUNOCO PENNSYLVANIA PIPELINE PROJECT ESRI WEBMAP FOR ACCESS ROAD ALIGNMENT.</p> <p>12. SUNOCO PIPELINE, L.P.'S HORIZONTAL DIRECTIONAL DRILL INADVERTENT RETURN CONTINGENCY PLAN WILL BE IMPLEMENTED AT ALL TIMES.</p> <p>13. SUNOCO PIPELINE, L.P.'S EROSION AND SEDIMENTATION CONTROL PLAN WILL BE IMPLEMENTED AT ALL TIMES.</p>		<p>DWG NO DWG NO DESCRIPTION NO. DESCRIPTION</p>		<p>SCALE: 1"=250'</p> <p>DWG. NO. PA-BR-0181.0000-RD-16</p>										