

**LEGEND**

PROPERTY LINE	STORM SEWER	EXTRA WORK SPACE	TOPSOIL SEGREGATION AREA
FENCE	UNDERGROUND ELECTRIC	AREA OF NO DISTURBANCE	PROPOSED TEMPORARY R.O.W.
STREAM	WATER LINE	WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)	UTILITY POLE
EXISTING GAS PIPELINE	SANITARY SEWER	<b>NOTE: THE PE SEAL AND SIGNATURE APPLIES ONLY TO THE E&amp;S CONTROL DESIGN COMPLETED BY ERM (SEE NOTE 12).</b>	
OVERHEAD UTILITY LINES	EDGE OF GRAVEL	PERMANENT WATERBAR/SLOPE BREAKER	LIMIT OF DISTURBANCE
ACCESS ROAD	PROPOSED PERMANENT EASEMENT	TEMPORARY WATERBAR/SLOPE BREAKER	BELTED SILT RETENTION FENCE (BSRF)
PROPOSED GAS PIPELINE	PROPOSED GAS PIPELINE (NO GROUND SURVEY)	TRENCH BREAKER/PLUG	COMPOST FILTER SOCK
		STREAM CROSSING	SEDIMENT BARRIER IDENTIFICATION
		USFWS STREAM CROSSING WITH ENHANCED CONTROLS	CULVERT IDENTIFICATION
		SLOPE DIRECTION	ROADSIDE DITCH
		CONSTRUCTION ENTRANCE WITH DITCH	SOIL TYPE
		CULVERT WATERBAR	TYPICAL BIG SLOPE CATEGORY SLOPE INCLUSION

**NOTES:**

- COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY - UTM WITH NAD83 DATUM, ZONE 17, US SURVEY FOOT, CENTRAL MERIDIAN 81° W.
- CONTOURS AND TOPOGRAPHIC FEATURES WERE DERIVED FROM LIDAR DATA AND GPS SUB-METER GROUND SURVEY PERFORMED BY GAI CONSULTANTS, INC FROM 11-03-2014 THRU 11-07-2014.
- IMAGERY TAKEN FROM GOOGLE EARTH.
- THE PROPERTY LINES SHOWN ARE BASED ON GIS & TAX ASSESSMENT RECORDS (PROVIDED BY OTHERS). GAI CONSULTANTS MAKE NO GUARANTEE EITHER EXPRESSED OR IMPLIED AS TO THE ACCURACY OF THE RECORDS AS SHOWN ON THESE DRAWINGS.
- STREAM AND WETLAND DATA SHOWN ON THE DRAWINGS WAS PROVIDED BY ERM.
- EROSION AND SEDIMENTATION CONTROL ELEMENTS MAY BE SHOWN OUTSIDE OF THE WORK AREAS FOR CLARITY ONLY. ACTUAL INSTALLATION SHALL BE WITHIN THE WORK AREAS.
- ALL STATIONING SHOWN IS SLOPE STATIONING.
- ACCESS ROADS HAVE BEEN GROUPED INTO FOUR CATEGORIES - 1) EXISTING ROADS NO IMPROVEMENTS, 2) EXISTING ROADS MINOR IMPROVEMENTS, 3) EXISTING ROADS MAJOR IMPROVEMENTS AND 4) NEW ROADS. APPROPRIATE EROSION AND SEDIMENT CONTROLS WILL BE PROVIDED FOR ROADS IN CATEGORIES 2, 3 AND 4. ROADS IN CATEGORIES 1 AND 2 HAVE ADEQUATE EXISTING DRAINAGE; DRAINAGE FEATURES WILL BE PROVIDED FOR ROADS IN CATEGORIES 3 AND 4.
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- THE CONSTRUCTION RIGHT-OF-WAY (ROW) WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS IN ACCORDANCE WITH SECTION V.A.5 FEDERAL ENERGY REGULATORY COMMISSION (FERC) UPLAND EROSION CONTROL, REVEGETATION, AND MAINTENANCE PLAN, SECTION V.A.5. IN ADDITION, WETLAND AND WATERBODY CROSSINGS WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS IN ACCORDANCE WITH NATIONWIDE PERMIT 12 (NWP) ISSUED BY THE U.S. CORPS OF ENGINEERS.

NO.	DATE	APPD.	CHKD.	DESCRIPTION

**42" AP-1 PIPELINE**  
**CONSTRUCTION ALIGNMENT STA 7160+00 TO 7202+00**  
 AUGUSTA COUNTY, VIRGINIA

**ATLANTIC COAST PIPELINE, LLC**  
 C/O DOMINION TRANSMISSION, INC.  
 925 WHITE OAKS BLVD., BRIDGEPORT, WV 26330

SCALE: AS SHOWN  
 DATE: 6/20/17  
 DRAWN: GPT  
 CHECKED: DLH  
 APPROVED: NET

**gai consultants**

SOUTHPOINTE OFFICE  
 6000 TOWN CENTER BLDG.  
 CANONSBURG, PA 15317  
 724-873-3545

PROJECT NO./DASH NO.  
**140468**

TASK NO. SUB TASK NO.  
**005 00**

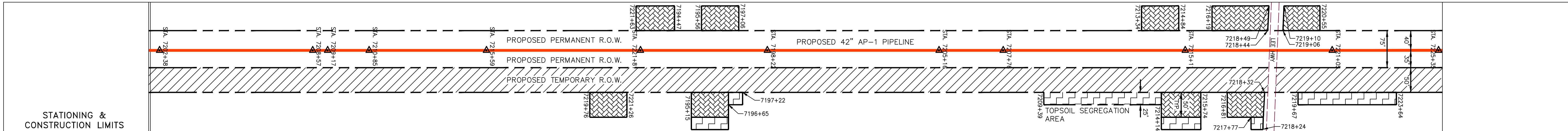
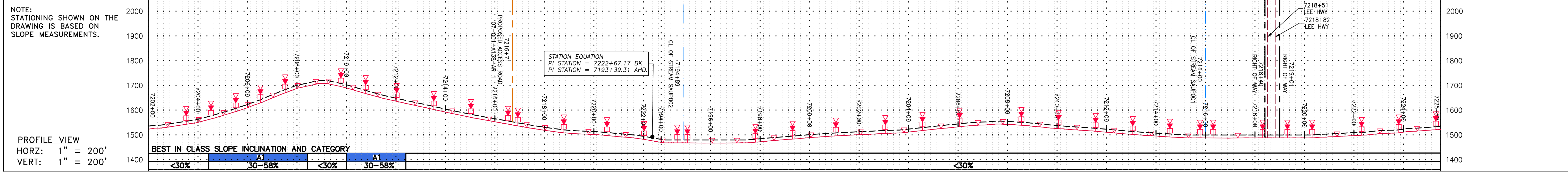
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179A OF 344

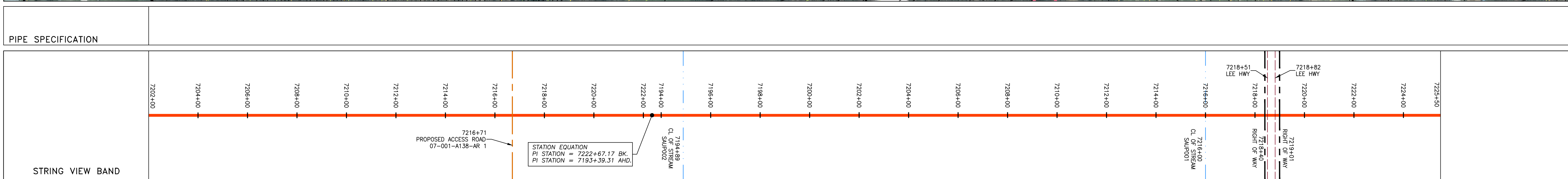
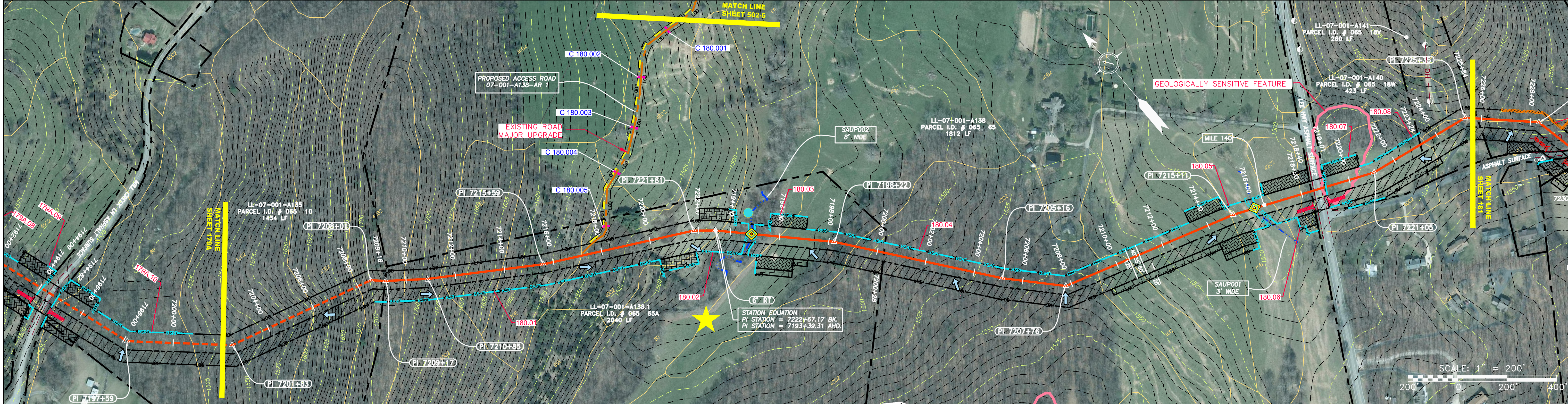
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GAI CAD FILE NO. R:\050-5159 - GAI - THRASHER - SERP - MAPPING\SURVEY\_DRAWING\SEC 3\BACKUP\E&S BACKUPS\RR SHEETS 179-183 (36-40).DWG

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STATIONING & CONSTRUCTION LIMITS	PROPERTY OWNERSHIP
7184+38	LL-07-001-A135 PARCEL I.D. # 065 10 1434 LF
7208+40	LL-07-001-A138.1 PARCEL I.D. # 065 65A 2040 LF
7200+28	LL-07-001-A138 PARCEL I.D. # 065 65 1812 LF
7218+40	LL-07-001-A140 PARCEL I.D. # 065 18W 423 LF
7225+50	LL-07-001-A141 PARCEL I.D. # 065 18W 260 LF



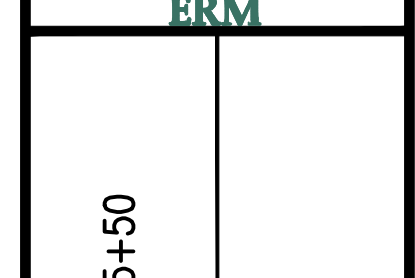
**LEGEND**

PROPERTY LINE	STORM SEWER	EXTRA WORK SPACE	TOPSOIL SEGREGATION AREA
FENCE	UNDERGROUND ELECTRIC	AREA OF NO DISTURBANCE	PROPOSED TEMPORARY R.O.W.
STREAM	WATER LINE	WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)	UTILITY POLE
EXISTING GAS PIPELINE	SANITARY SEWER	<b>NOTE: THE PE SEAL AND SIGNATURE APPLIES ONLY TO THE E&amp;S CONTROL DESIGN COMPLETED BY ERM (SEE NOTE 12).</b>	
OVERHEAD UTILITY LINES	EDGE OF GRAVEL	PERMANENT WATERBAR/SLOPE BREAKER	TEMPORARY WATERBAR/SLOPE BREAKER
ACCESS ROAD	PROPOSED PERMANENT EASEMENT	STREAM CROSSING	USFS STREAM CROSSING WITH ENHANCED CONTROLS
PROPOSED GAS PIPELINE	PROPOSED GAS PIPELINE (NO GROUND SURVEY)	SLOPE DIRECTION	CONSTRUCTION ENTRANCE WITH DITCH
		CULVERT WATERBAR	LOD
			BSRF
			COMPOST FILTER SOCK
			SEDIMENT BARRIER IDENTIFICATION
			CULVERT IDENTIFICATION
			ORANGE SAFETY FENCE
			ROADSIDE DITCH
			SOIL TYPE
			TYPICAL BIG SLOPE CATEGORY SLOPE INCLINATION

**NOTES:**

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- ALL STATIONING SHOWN IS SLOPE STATIONING.
- SILT FENCE AND FILTER SOCK SHALL BE INSTALLED PARALLEL TO CONTOUR TO EXTENT PRACTICABLE IN ACCORDANCE WITH STANDARD DETAIL.
- BEST IN CLASS (BIC) STEEP SLOPE CATEGORY INFORMATION CAN BE FOUND IN THE APPENDIX OF THE STORMWATER POLLUTION PREVENTION PLAN.
- EROSION CONTROL MATTING SHALL BE PLACED IN AREAS OF 30% SLOPE AND GREATER, WHICH ARE INDICATED ON THE BEST IN CLASS STEEP SLOPE BAND.
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NO.	DATE	BY	CHKD.	APPD.	DESCRIPTION



**ATLANTIC COAST PIPELINE, LLC**  
 C/O DOMINION TRANSMISSION, INC.  
 925 WHITE OAKS BLVD., BRIDGEPORT, WV 26330

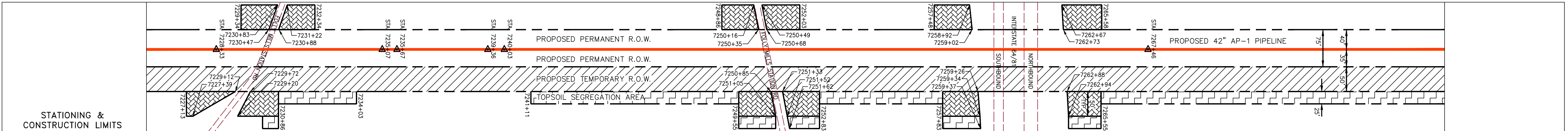
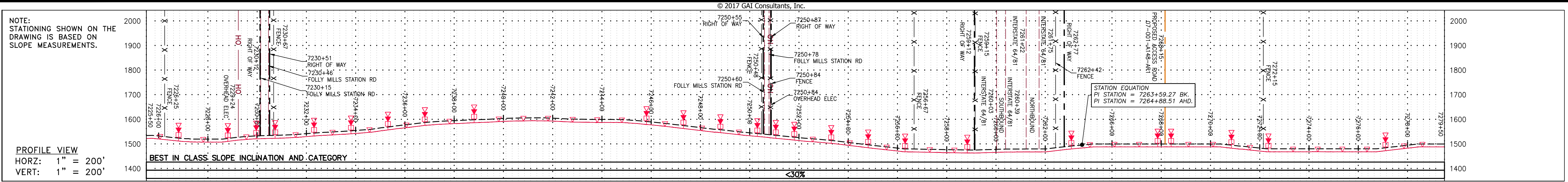
**42" AP-1 PIPELINE**  
 CONSTRUCTION ALIGNMENT STA 7202+00 TO 7225+50  
 AUGUSTA COUNTY, VIRGINIA

SCALE: AS SHOWN  
 DATE: 6/20/17  
 DRAWN: GPT  
 CHECKED: DLH  
 APPROVED: NET

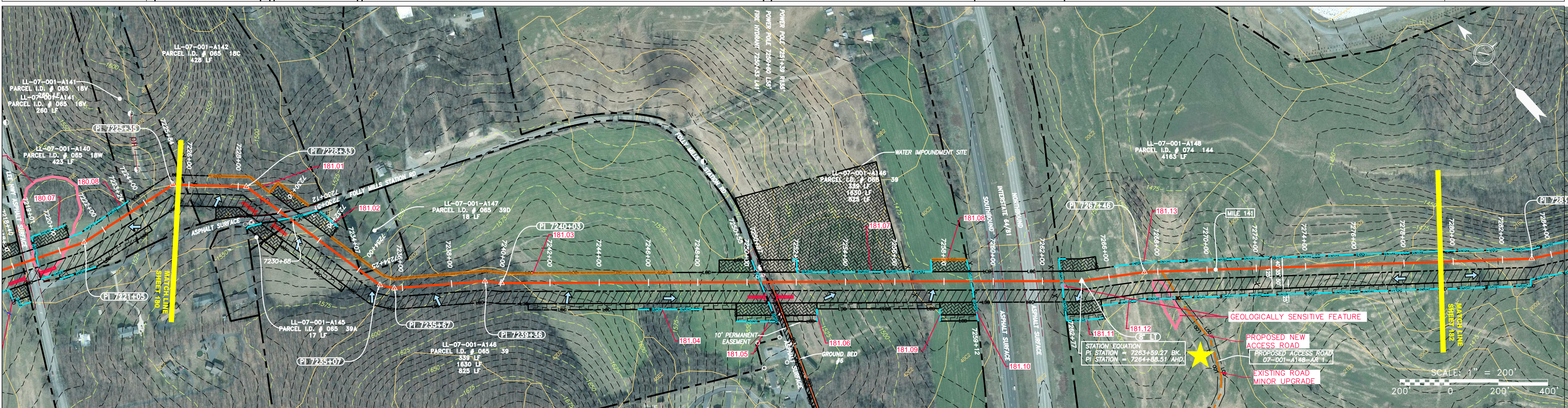


PROJECT NO./DASH NO.	140468
TASK NO. SUB TASK NO.	005 00
GROUP ID DRAWING NO.	D E180
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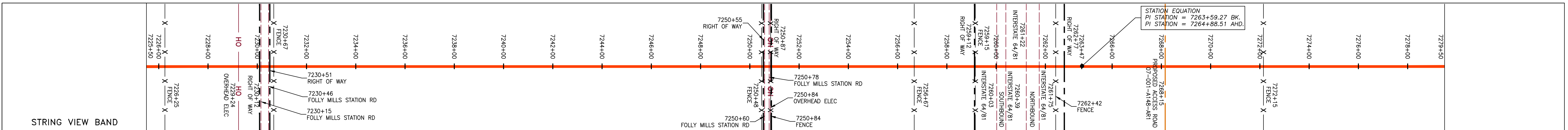
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PROPERTY OWNERSHIP table listing parcel IDs and acreages for various landowners along the project alignment.



PIPE SPECIFICATION table detailing the proposed 42-inch AP-1 pipeline, including material, bedding, and installation requirements.



LEGEND, NOTES, and REVISIONS section. Includes symbols for property lines, fences, streams, and various engineering features. Contains 13 numbered notes regarding surveying, construction, and regulatory requirements.

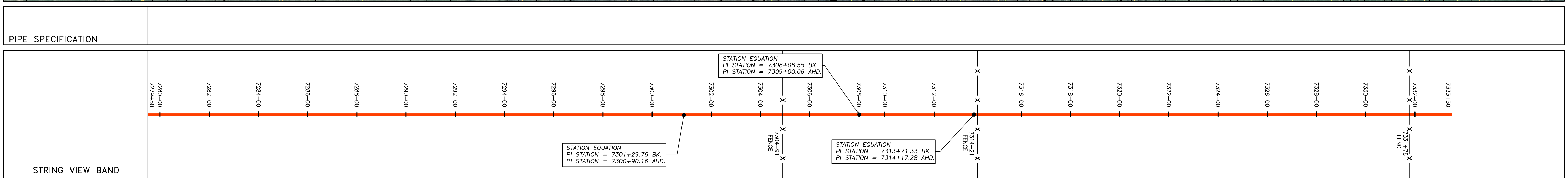
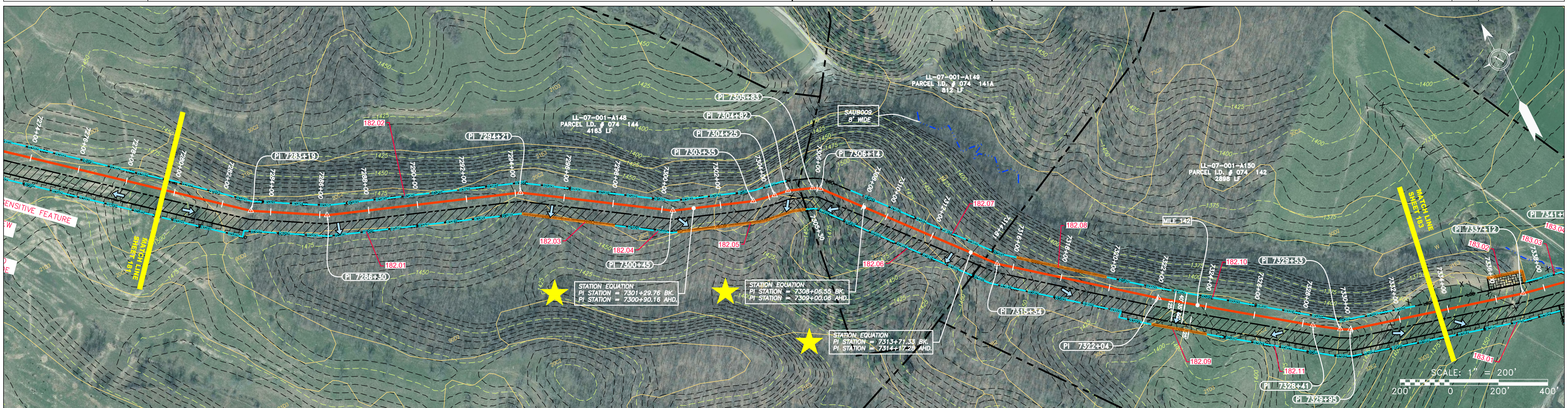
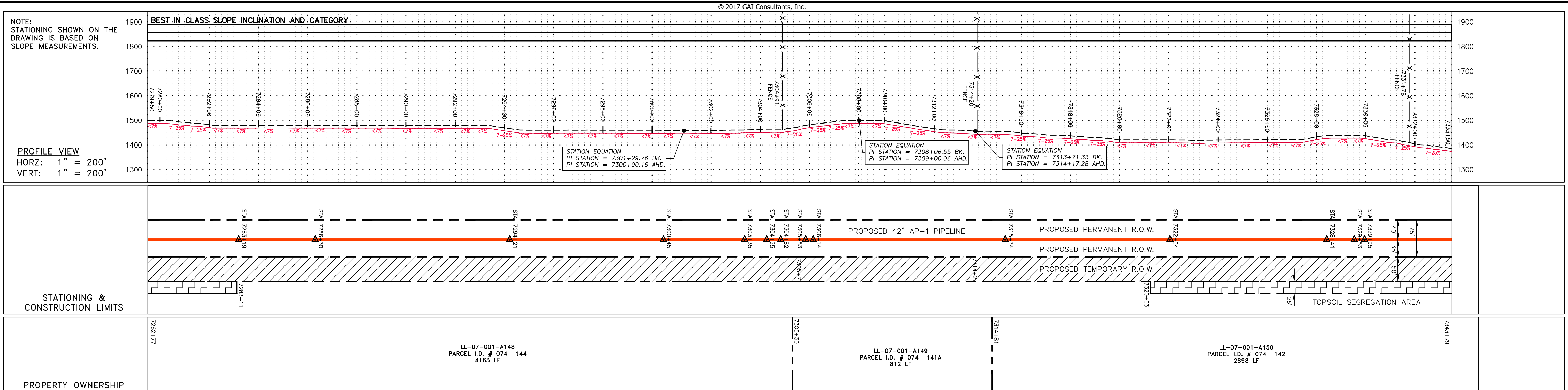
REVISIONS table with columns for NO., DATE, DWN., CHKD., APPVD., and DESCRIPTION.

Professional Engineer seal for Daniel R. Goldstein, License No. 047436, and project title: 42" AP-1 PIPELINE CONSTRUCTION ALIGNMENT STA 7225+50 TO 7275+50.

Scale: AS SHOWN, Date: 6/20/17, Drawn: GPT, Checked: DLH, Approved: NET.

Project information including Project No./Dash No. 140468, Task No. 005, Sub Task No. 00, Group ID D, Drawing No. E181, and Date 18 OF 344.

GAI CAD FILE NO. R:\050-5159 - GAI - THRASHER - SERP - MAPPING\SURVEY\DRAWING\SEC 3\BACKUP\E&S BACKUPS\RR SHEETS 179-183 (36-40).DWG



<b>LEGEND</b> - - - - - PROPERTY LINE X X FENCE - - - - - STREAM G G EXISTING GAS PIPELINE OH OVERHEAD UTILITY LINES - - - - - ACCESS ROAD - - - - - PROPOSED GAS PIPELINE - - - - - STORM SEWER E UNDERGROUND ELECTRIC W WATER LINE SAN SANITARY SEWER - - - - - EDGE OF GRAVEL - - - - - PROPOSED PERMANENT EASEMENT - - - - - PROPOSED GAS PIPELINE (NO GROUND SURVEY)		EXTRA WORK SPACE AREA OF NO DISTURBANCE WETLAND TOPSOIL SEGREGATION AREA PROPOSED TEMPORARY R.O.W. UTILITY POLE NOTE: THE PE SEAL AND SIGNATURE APPLIES ONLY TO THE E&S CONTROL DESIGN COMPLETED BY ERM (SEE NOTE 12).		PERMANENT WATERBAR/SLOPE BREAKER TEMPORARY WATERBAR/SLOPE BREAKER TRENCH BREAKER/PLUG STREAM CROSSING USFWS STREAM CROSSING WITH ENHANCED CONTROLS SEEP SLOPE DIRECTION CONSTRUCTION ENTRANCE WITH DITCH CULVERT AS NEEDED CULVERT WATERBAR LOD BSRF 111.03 C 111.001 CUB A1 (E) 30-58% LIMIT OF DISTURBANCE BELTED SILT RETENTION FENCE (BSRF) COMPOST FILTER SOCK SEDIMENT IDENTIFICATION CULVERT IDENTIFICATION ORANGE SAFETY FENCE ROADSIDE DITCH SOIL TYPE TYPICAL BIG SLOPE CATEGORY SLOPE INCLINATION		<b>NOTES:</b> 1. COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY - UTM WITH NAD83 DATUM, ZONE 17, US SURVEY FOOT, CENTRAL MERIDIAN 81° W. CONTOURS AND TOPOGRAPHIC FEATURES WERE DERIVED FROM LIDAR DATA AND GPS SUB-METER GROUND SURVEY PERFORMED BY GAI CONSULTANTS, INC FROM 11-03-2014 THRU 11-07-2014. 2. THE PROPERTY LINES SHOWN ARE BASED ON GIS & TAX ASSESSMENT RECORDS (PROVIDED BY OTHERS). GAI CONSULTANTS MAKE NO GUARANTEE EITHER EXPRESSED OR IMPLIED AS TO THE ACCURACY OF THE RECORDS AS SHOWN ON THESE DRAWINGS. 3. IMAGERY TAKEN FROM GOOGLE EARTH. 4. ALL STATIONING SHOWN IS SLOPE STATIONING. 5. EROSION AND SEDIMENTATION CONTROL ELEMENTS MAY BE SHOWN OUTSIDE OF THE WORK AREAS FOR CLARITY ONLY. ACTUAL INSTALLATION SHALL BE WITHIN THE WORK AREAS. 6. STREAM AND WETLAND DATA SHOWN ON THE DRAWINGS WAS PROVIDED BY ERM. 7. ALL STATIONING SHOWN IS SLOPE STATIONING. 8. SLOPE CONTROL MATTING SHALL BE PLACED IN AREAS OF 30% SLOPE AND GREATER, WHICH ARE INDICATED ON THE BEST IN CLASS STEEP SLOPES BAND. 9. SILT FENCE AND FILTER SOCK SHALL BE INSTALLED PARALLEL TO CONTOUR TO EXTENT PRACTICABLE IN ACCORDANCE WITH STANDARD DETAIL. 10. ACCESS ROADS HAVE BEEN GROUPED INTO FOUR CATEGORIES - 1) EXISTING ROADS NO IMPROVEMENTS, 2) EXISTING ROADS MINOR IMPROVEMENTS, 3) EXISTING ROADS MAJOR IMPROVEMENTS AND 4) NEW ROADS. APPROPRIATE EROSION AND SEDIMENT CONTROLS WILL BE PROVIDED FOR ROADS IN CATEGORIES 2, 3 AND 4. ROADS IN CATEGORIES 1 AND 2 HAVE ADEQUATE EXISTING DRAINAGE; DRAINAGE FEATURES WILL BE PROVIDED FOR ROADS IN CATEGORIES 3 AND 4. 11. ERM IS SOLELY RESPONSIBLE FOR THE NATURE AND LOCATION OF THE DEPICTED BMPs AS OF THE DATE SIGNED AND SEALED BASED ON THE SOURCE DATA PROVIDED AND AS DESCRIBED IN THE NOTES SECTION OF THE INDEX SHEET OF THIS PLAN SET. 12. THE CONSTRUCTION RIGHT-OF-WAY (ROW) WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS IN ACCORDANCE WITH SECTION V.A.5 FEDERAL ENERGY REGULATORY COMMISSION (FERC) UPLAND EROSION CONTROL, REVEGETATION, AND MAINTENANCE PLAN, SECTION V.A.5. IN ADDITION, WETLAND AND WATERBODY CROSSINGS WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS IN ACCORDANCE WITH NATIONWIDE PERMIT 12 (NWP) ISSUED BY THE U.S. CORPS OF ENGINEERS.	
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REVISIONS	
NO.	DATE

**DANIEL R. GOLDSTEIN**  
 Lic. No. 047436  
 PROFESSIONAL ENGINEER

**ERM**

**42" AP-1 PIPELINE**  
**CONSTRUCTION ALIGNMENT STA 7279+50 TO 7333+50**  
 AUGUSTA COUNTY, VIRGINIA

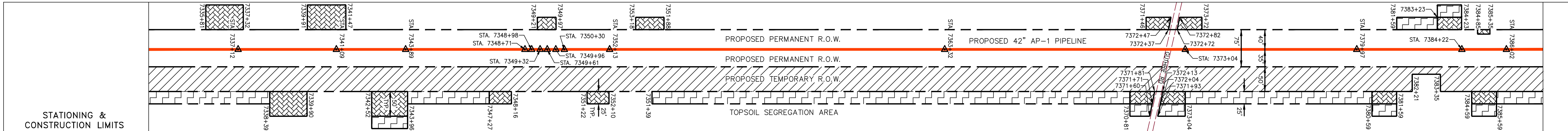
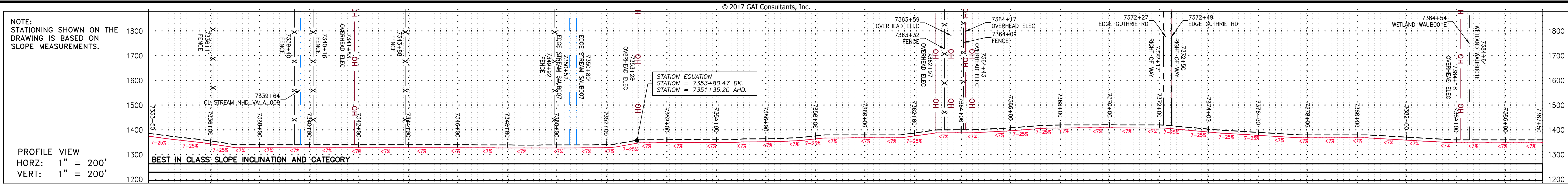
**ATLANTIC COAST PIPELINE, LLC**  
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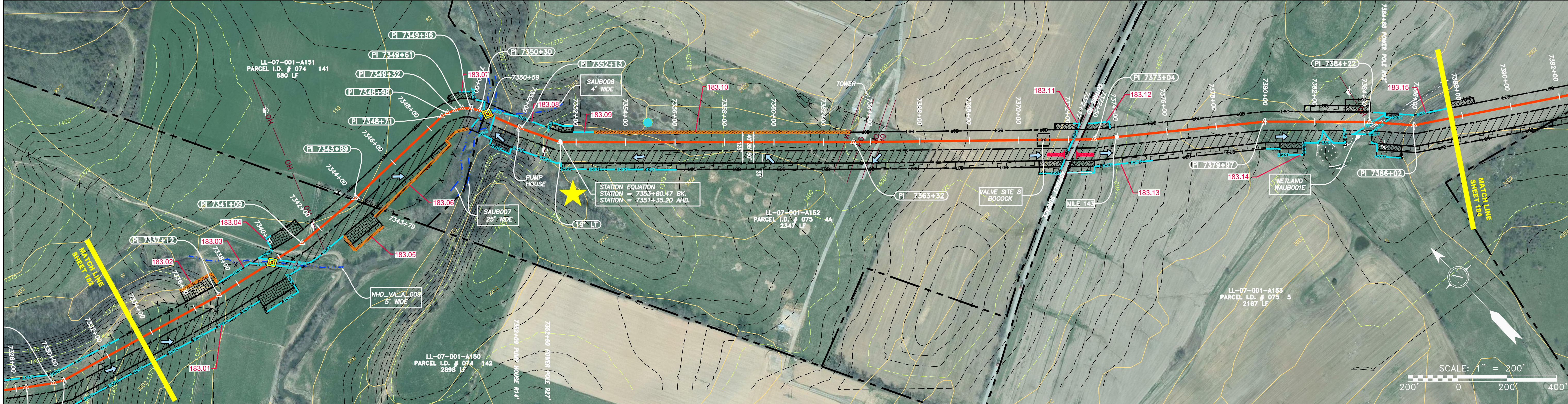
**gai consultants**  
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 6000 TOWN CENTER BLDG.  
 CANONSBURG, VA 15317  
 724-873-3545

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TASK NO. SUB TASK NO.	005 00
GROUP ID DRAWING NO.	D E182
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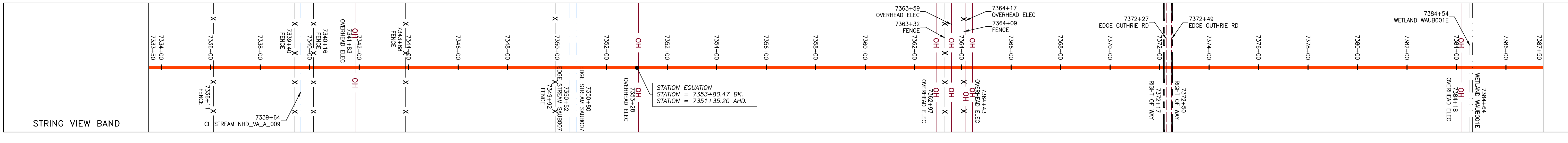
GAI CAD FILE NO. R:\050-5159 - GAI - THRASHER - SERP - MAPPING\SURVEY DRAWING\SEC 3\BACKUP\E&S BACKUPS\RR SHEETS 179-183 (36-40).DWG



PROPERTY OWNERSHIP	PARCEL I.D. #	AREA	AREA	AREA
	LL-07-001-A150	PARCEL I.D. # 074 142	2898 LF	
	LL-07-001-A151	PARCEL I.D. # 074 141	680 LF	
	LL-07-001-A152	PARCEL I.D. # 075 4A	2347 LF	
	LL-07-001-A153	PARCEL I.D. # 075 5	2167 LF	



PIPE SPECIFICATION
42" AP-1 PIPELINE

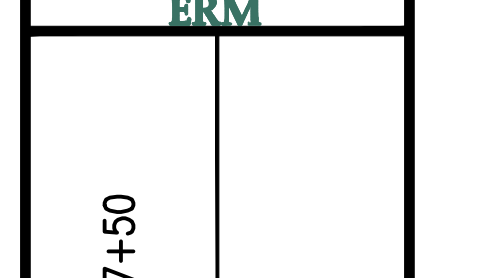


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	STREAM
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	OVERHEAD UTILITY LINES
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	STORM SEWER
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	WATER LINE
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	EXTRA WORK SPACE
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	WETLAND
	UTILITY POLE
	PERMANENT WATERBAR/SLOPE BREAKER
	TEMPORARY WATERBAR/SLOPE BREAKER
	TRENCH BREAKER/PLUG
	STREAM CROSSING
	USFS STREAM CROSSING WITH ENHANCED CONTROLS
	SLOPEWAY
	SLOPE DIRECTION
	CONSTRUCTION ENTRANCE WITH DITCH
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	CULVERT WATERBAR
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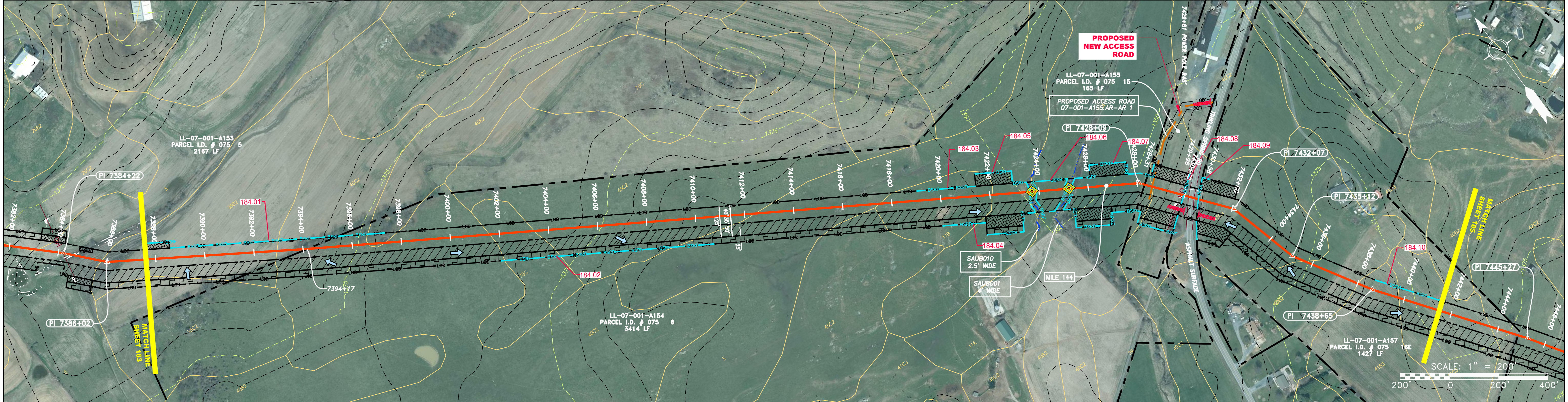
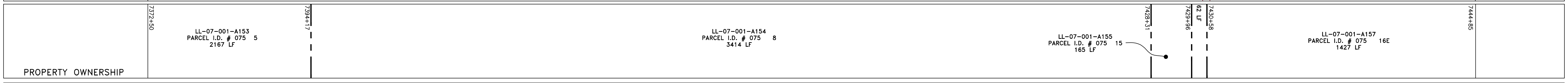
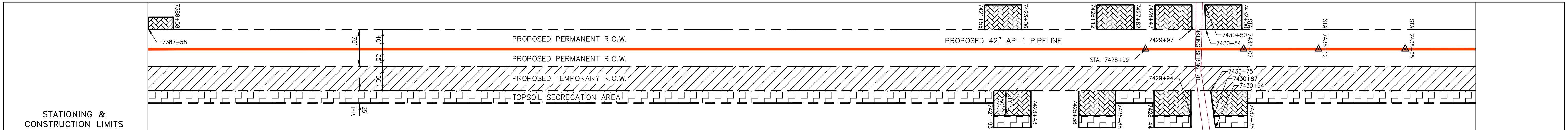
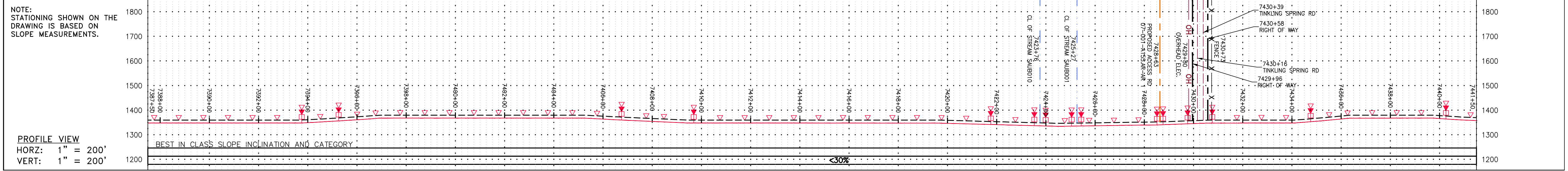


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CHECKED:	DLH
APPROVED:	NET

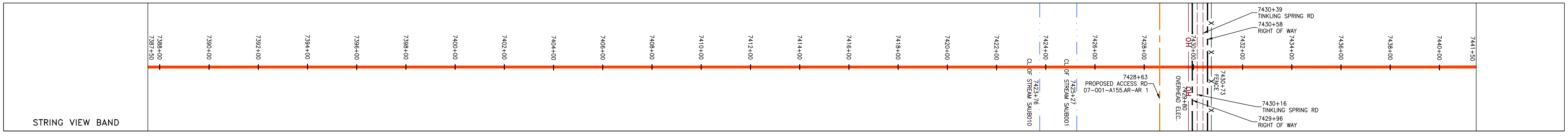


PROJECT NO./DASH NO.	140468
TASK NO. SUB TASK NO.	005 00
GROUP ID DRAWING NO.	D E183
18 OF 344	



PIPE SPECIFICATION

7388+00	7390+00	7392+00	7394+00	7396+00	7400+00	7402+00	7404+00	7406+00	7408+00	7410+00	7412+00	7414+00	7416+00	7418+00	7420+00	7422+00	7424+00	7426+00	7428+00	7430+00	7432+00	7434+00	7436+00	7438+00	7440+00	7441+50
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**LEGEND**

PROPERTY LINE	STORM SEWER	EXTRA WORK SPACE	TOPSOIL SEGREGATION AREA
FENCE	UNDERGROUND ELECTRIC	AREA OF NO DISTURBANCE	PROPOSED TEMPORARY R.O.W.
STREAM	WATER LINE	WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)	UTILITY POLE
EXISTING GAS PIPELINE	SANITARY SEWER	<b>NOTE: THE PE SEAL AND SIGNATURE APPLIES ONLY TO THE E&amp;S CONTROL DESIGN COMPLETED BY ERM (SEE NOTE 12).</b>	
OVERHEAD UTILITY LINES	EDGE OF GRAVEL	PERMANENT WATERBAR/SLOPE BREAKER	LIMIT OF DISTURBANCE
ACCESS ROAD	PROPOSED PERMANENT EASEMENT	TEMPORARY WATERBAR/SLOPE BREAKER	BELTED SILT RETENTION FENCE (BSRF)
PROPOSED GAS PIPELINE	PROPOSED GAS PIPELINE (NO GROUND SURVEY)	TRENCH BREAKER/PLUG	COMPOST FILTER SOCK
		STREAM CROSSING	SEDIMENT BARRIER IDENTIFICATION
		USFWS STREAM CROSSING WITH ENHANCED CONTROLS	CULVERT IDENTIFICATION
		SLOPE	ORANGE SAFETY FENCE
		SLOPE DIRECTION	ROADSIDE DITCH
		SLOPE ENTRANCE WITH DITCH	SOIL TYPE
		CULVERT AS NEEDED	TYPICAL BIG SLOPE CATEGORY
		CULVERT WATERBAR	SLOPE INCLINATION

**NOTES:**

- COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY - UTM WITH NAD83 DATUM, ZONE 17, US SURVEY FOOT, CENTRAL MERIDIAN 81° W.
- CONTOURS AND TOPOGRAPHIC FEATURES WERE DERIVED FROM LIDAR DATA AND GPS SUB-METER GROUND SURVEY PERFORMED BY GAI CONSULTANTS, INC FROM 11-03-2014 THRU 11-07-2014.
- IMAGERY TAKEN FROM GOOGLE EARTH.
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- ALL STATIONING SHOWN IS SLOPE STATIONING.
- SILT FENCE AND FILTER SOCK SHALL BE INSTALLED PARALLEL TO CONTOUR TO EXTENT PRACTICABLE IN ACCORDANCE WITH STANDARD DETAIL.
- BEST IN CLASS (BIC) STEEP SLOPE CATEGORY INFORMATION CAN BE FOUND IN THE APPENDIX OF THE STORMWATER POLLUTION PREVENTION PLAN.
- EROSION CONTROL MATTING SHALL BE PLACED IN AREAS OF 30% SLOPE AND GREATER, WHICH ARE INDICATED ON THE BEST IN CLASS STEEP SLOPES BAND.
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REVISIONS

NO.	DATE	DWN.	CHKD.	APPD.	DESCRIPTION

**Daniel R. Goldstein**  
 DANIEL R. GOLDSTEIN  
 Lic. No. 047436  
 PROFESSIONAL ENGINEER

**ERM**

42" AP-1 PIPELINE  
 CONSTRUCTION ALIGNMENT STA 7387+50 TO 7441+50  
 AUGUSTA COUNTY, VIRGINIA

ATLANTIC COAST PIPELINE, LLC  
 C/O DOMINION TRANSMISSION, INC.  
 925 WHITE OAKS BLVD., BRIDGEPORT, WV 26330

SCALE: AS SHOWN

DATE: 6/20/17

DRAWN: GPT

CHECKED: DLH

APPROVED: NET

**gai consultants**

SOUTHPOINTE OFFICE  
 6000 TOWN CENTER BLDG.  
 CANONSBURG, PA 15317  
 724-873-3545

PROJECT NO./DASH NO.  
**140468**

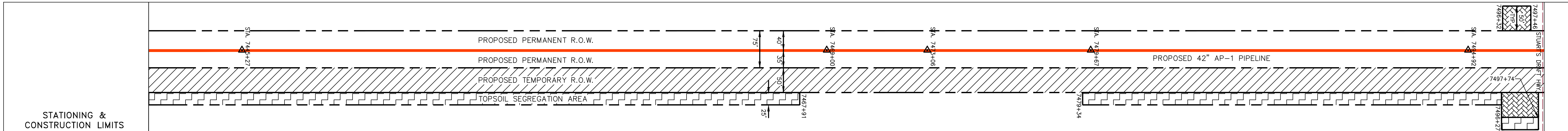
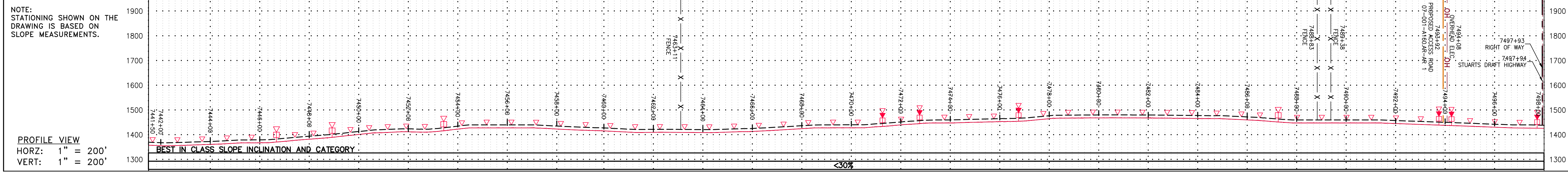
TASK NO. SUB TASK NO.  
**005 00**

GROUP ID DRAWING NO.  
**D E184**

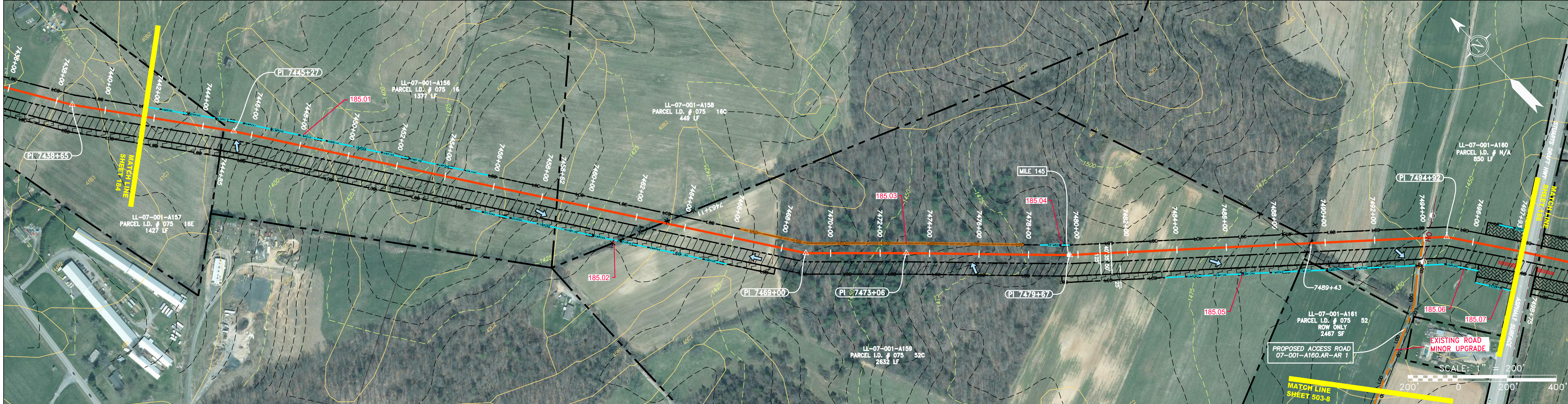
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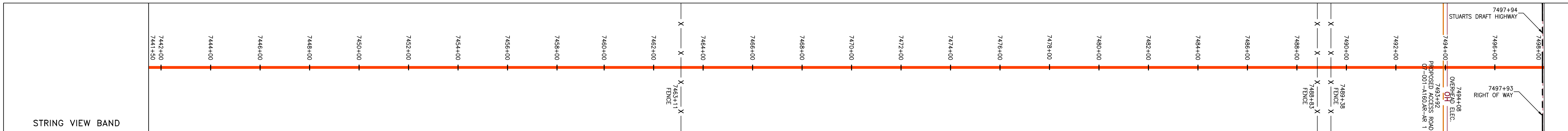
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PROPERTY OWNERSHIP					
LL-07-001-A157 PARCEL I.D. # 075 16E 1427 LF	LL-07-001-A156 PARCEL I.D. # 075 16 1377 LF	LL-07-001-A158 PARCEL I.D. # 075 16C 449 LF	LL-07-001-A159 PARCEL I.D. # 075 52C 2632 LF	LL-07-001-A161 PARCEL I.D. # 075 ROW ONLY 2467 SF	LL-07-001-A160 PARCEL I.D. # N/A 850 LF



PIPE SPECIFICATION																												
7442+00	7444+00	7446+00	7448+00	7450+00	7452+00	7454+00	7456+00	7458+00	7460+00	7462+00	7464+00	7466+00	7468+00	7470+00	7472+00	7474+00	7476+00	7478+00	7480+00	7482+00	7484+00	7486+00	7488+00	7490+00	7492+00	7494+00	7496+00	7498+00



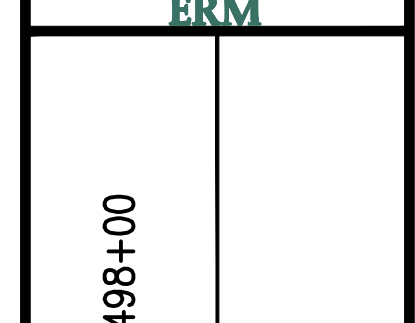
LEGEND	
PROPERTY LINE	STORM SEWER
FENCE	UNDERGROUND ELECTRIC
STREAM	WATER LINE
EXISTING GAS PIPELINE	SANITARY SEWER
OVERHEAD UTILITY LINES	EDGE OF GRAVEL
ACCESS ROAD	PROPOSED PERMANENT EASEMENT
PROPOSED GAS PIPELINE	PROPOSED GAS PIPELINE (NO GROUND SURVEY)
EXTRA WORK SPACE	TOPSOIL SEGREGATION AREA
AREA OF NO DISTURBANCE	PROPOSED TEMPORARY R.O.W.
WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)	UTILITY POLE
NOTE: THE PE SEAL AND SIGNATURE APPLIES ONLY TO THE E&S CONTROL DESIGN COMPLETED BY ERM (SEE NOTE 12).	

PERMANENT WATERBAR/SLOPE BREAKER	LOD	LIMIT OF DISTURBANCE
TEMPORARY WATERBAR/SLOPE BREAKER	BSRF	BELTED SILT RETENTION FENCE (BSRF)
TRENCH BREAKER/PLUG	111.03	COMPOST FILTER SOCK
STREAM CROSSING	C 111.001	SEDIMENT BARRIER IDENTIFICATION
CONSTRUCTION CROSSING WITH ENHANCED CONTROLS	30-58%	CULVERT IDENTIFICATION
SLOPE DIRECTION	A1(E)	ORANGE SAFETY FENCE
CONSTRUCTION ENTRANCE WITH DITCH	30-58%	ROADSIDE DITCH
CULVERT WATERBAR	A1(E)	SOIL TYPE
	30-58%	TYPICAL BIG SLOPE CATEGORY SLOPE INCLINATION

**NOTES:**

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NO.	DATE	APPD.	CHKD.	DESCRIPTION

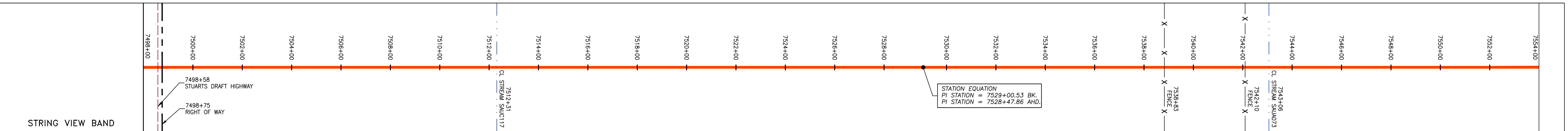
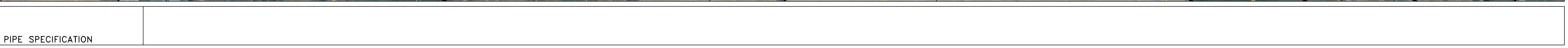
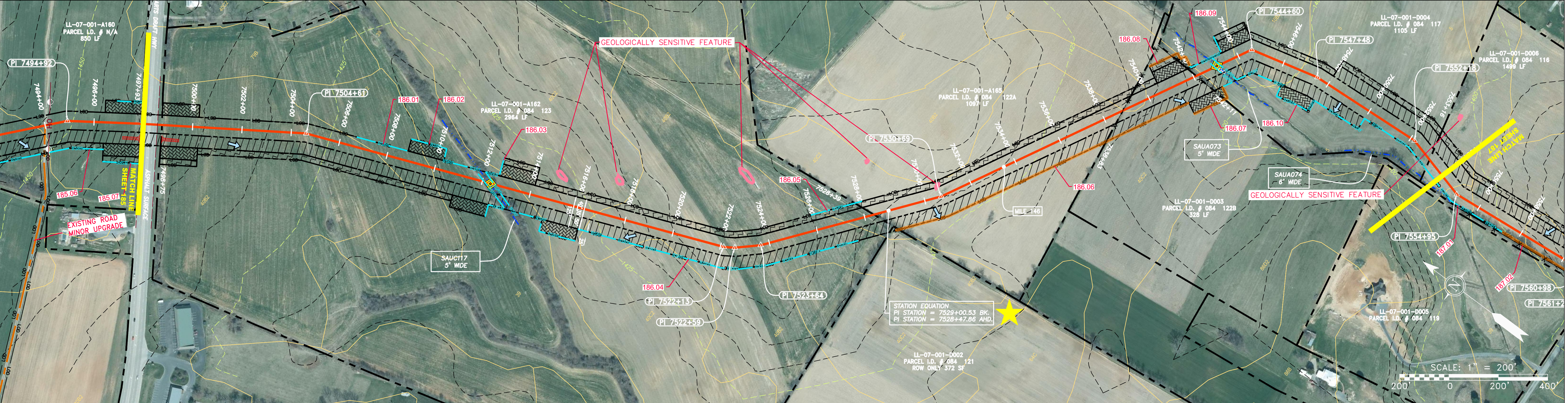
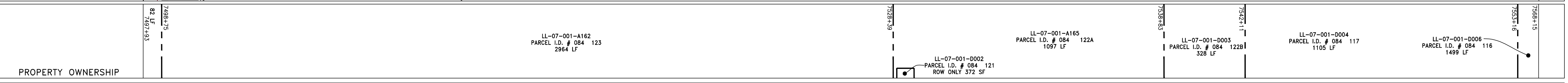
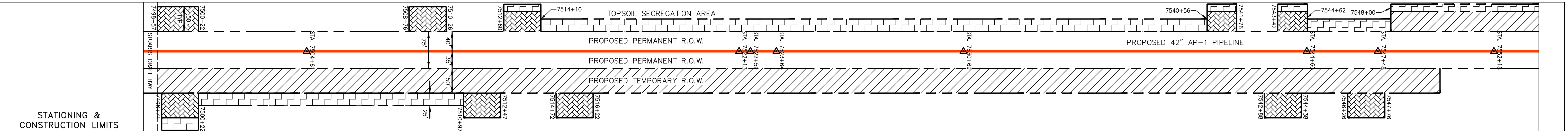
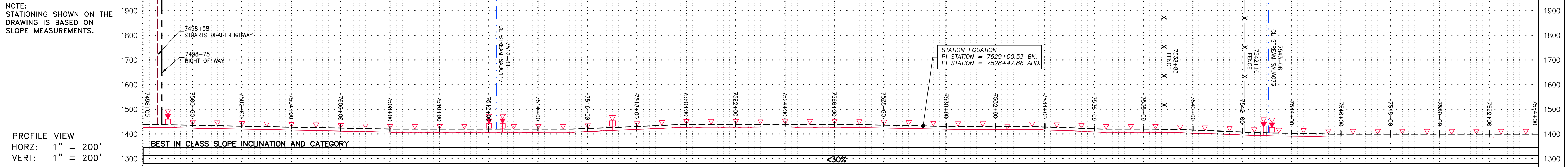


**ATLANTIC COAST PIPELINE, LLC**  
 C/O DOMINION TRANSMISSION, INC.  
 925 WHITE OAKS BLVD., BRIDGEPORT, WV 26330

SCALE:	AS SHOWN
DATE:	6/20/17
DRAWN:	GPT
CHECKED:	DLH
APPROVED:	NET



PROJECT NO./DASH NO.	140468
TASK NO. SUB TASK NO.	005 00
GROUP ID DRAWING NO.	D E185
185 OF 344	



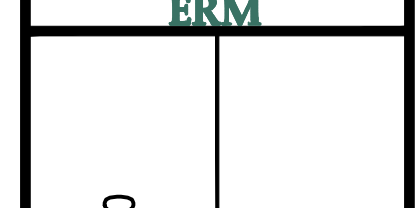
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— X — X —	PROPERTY LINE	— F —	STORM SEWER	▨	EXTRA WORK SPACE	▨	TOPSOIL SEGREGATION AREA
— X — X —	FENCE	— W —	UNDERGROUND ELECTRIC	▨	AREA OF NO DISTURBANCE	▨	PROPOSED TEMPORARY R.O.W.
— G — G —	EXISTING GAS PIPELINE	— S —	WATER LINE	▨	WETLAND	▨	UTILITY POLE
— OH —	OVERHEAD UTILITY LINES	— E —	SANITARY SEWER	▨	NOTE: THE PE SEAL AND SIGNATURE APPLIES ONLY TO THE E&S CONTROL DESIGN COMPLETED BY ERM (SEE NOTE 12).		
— A —	ACCESS ROAD	— P —	PROPOSED PERMANENT EASEMENT				
— G —	PROPOSED GAS PIPELINE	— P —	PROPOSED GAS PIPELINE (NO GROUND SURVEY)				

**NOTES:**

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NO.	DATE	DWN.	CHKD.	APPRD.	DESCRIPTION



**ATLANTIC COAST PIPELINE, LLC**  
 C/O DOMINION TRANSMISSION, INC.  
 925 WHITE OAKS BLVD., BRIDGEPORT, WV 26330

SCALE: AS SHOWN  
 DATE: 6/20/17  
 DRAWN: GPT  
 CHECKED: DLH  
 APPROVED: NET

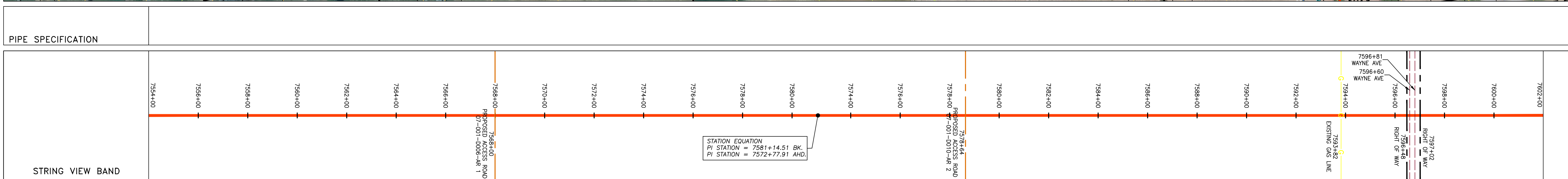
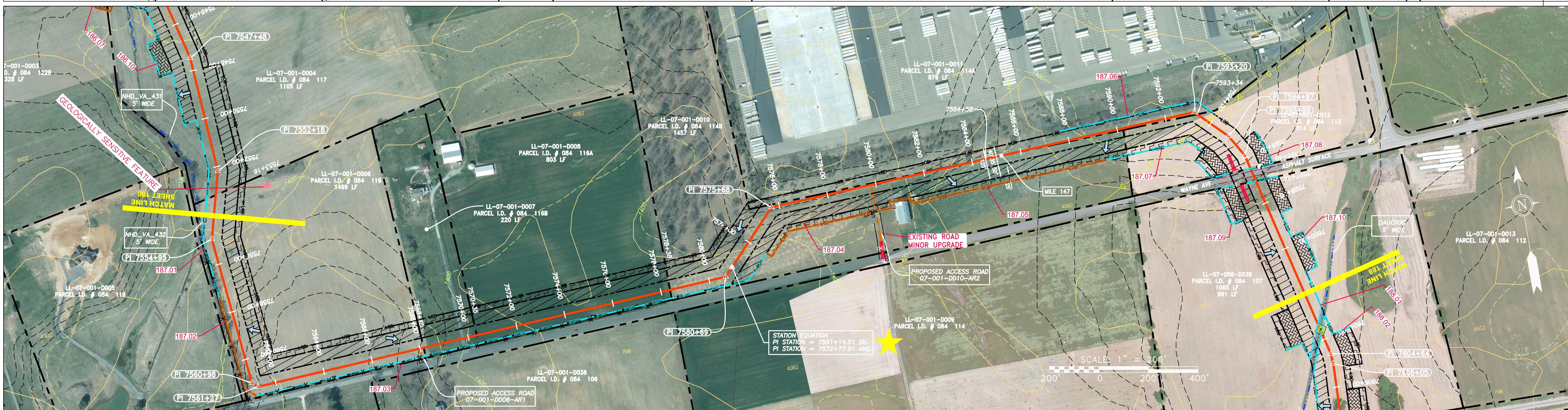
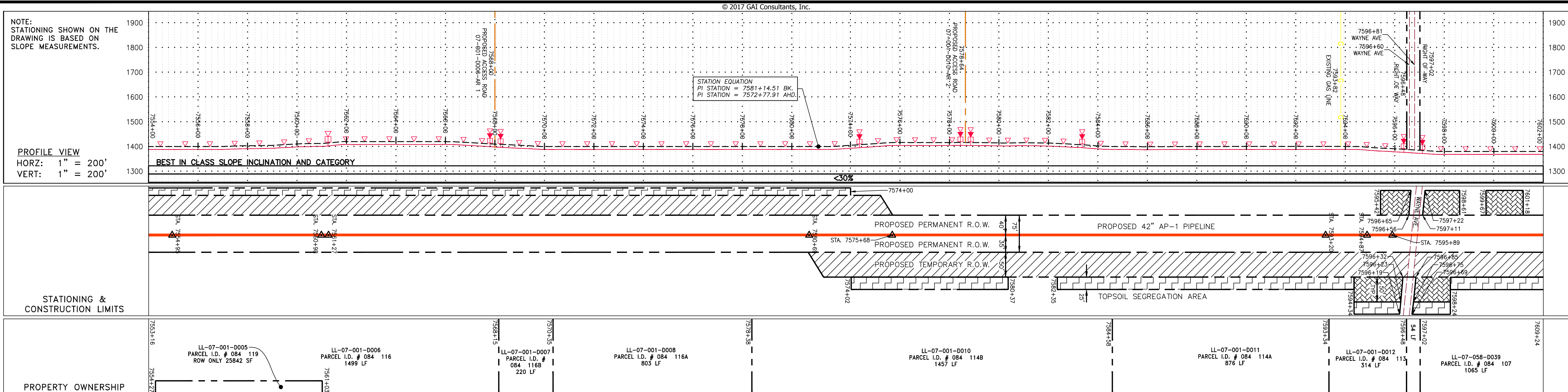


PROJECT NO./DASH NO.	140468
TASK NO. SUB TASK NO.	005 00
GROUP ID DRAWING NO.	D E186
186 OF 344	

GAI CAD FILE NO. R:\050-5159 - SERP - THRASHER - GAI - INC. - GAI - THRASHER - SERP - MAPPING SURVEY DRAWING SEC 3 YRR SHEETS 185-188 (42-45).DWG



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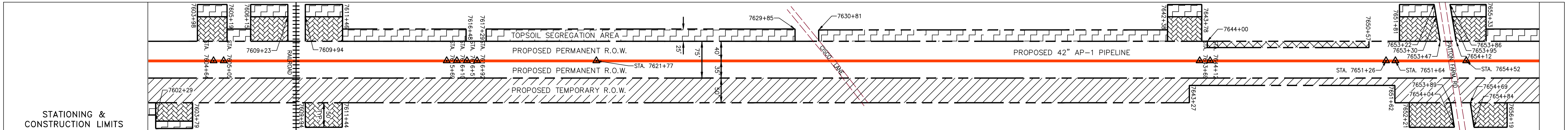
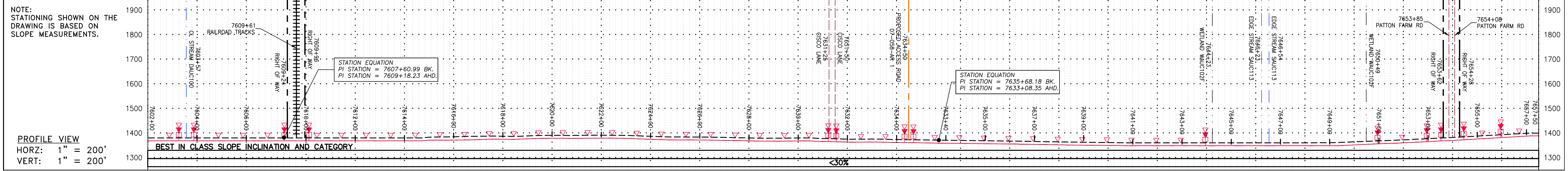
**LEGEND**

PROPERTY LINE	STORM SEWER	EXTRA WORK SPACE	TOPSOIL SEGREGATION AREA
FENCE	UNDERGROUND ELECTRIC	AREA OF NO DISTURBANCE	PROPOSED TEMPORARY R.O.W.
STREAM	WATER LINE	WETLAND <small>(COLOR SHOWN TO PROVIDE CLARITY ONLY)</small>	UTILITY POLE
EXISTING GAS PIPELINE	SANITARY SEWER	<b>NOTE: THE PE SEAL AND SIGNATURE APPLIES ONLY TO THE E&amp;S CONTROL DESIGN COMPLETED BY ERM (SEE NOTE 12).</b>	
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ACCESS ROAD	PROPOSED PERMANENT EASEMENT	TEMPORARY WATERBAR/SLOPE BREAKER	COMPOSITE FILTER SOCK
PROPOSED GAS PIPELINE	PROPOSED GAS PIPELINE (NO GROUND SURVEY)	STREAM CROSSING WITH ENHANCED CONTROLS	CULVERT IDENTIFICATION
		SLOPE DIRECTION	ORANGE SAFETY FENCE
		SLOPE DIRECTION	ROADSIDE DITCH
		SLOPE DIRECTION	SOIL TYPE
		SLOPE DIRECTION	TYPICAL BIG SLOPE CATEGORY SLOPE INCLINATION

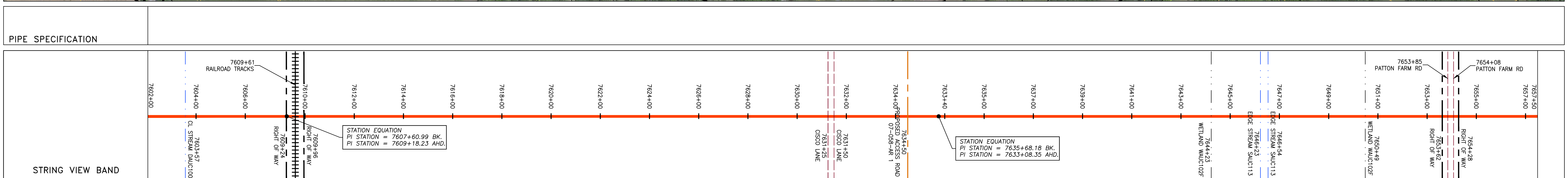
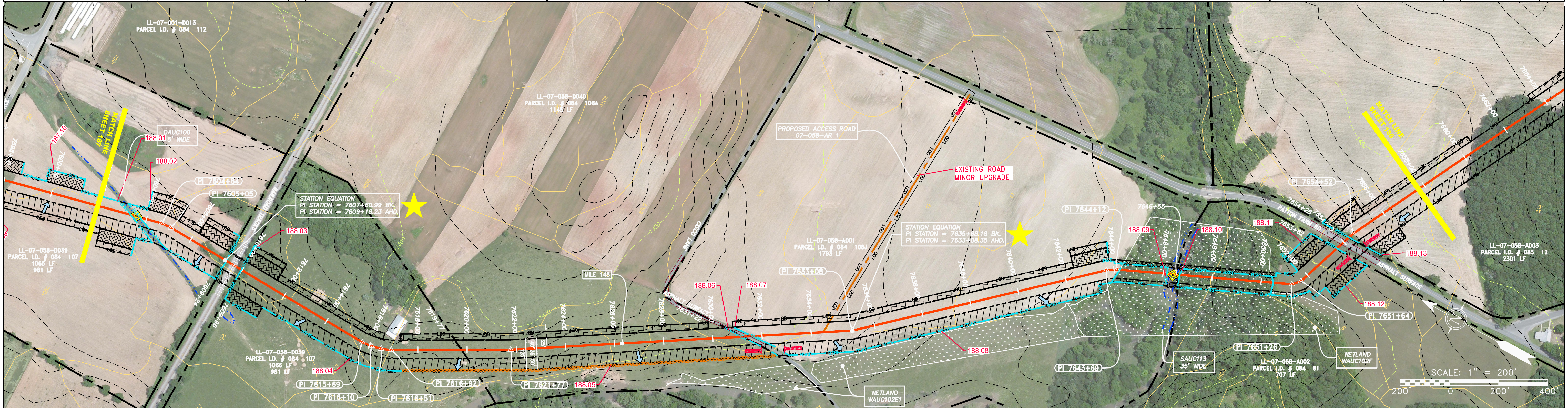
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<p><b>ATLANTIC COAST PIPELINE, LLC</b> C/O DOMINION TRANSMISSION, INC. 925 WHITE OAKS BLVD., BRIDGEPORT, WV 26330</p>	<p><b>REVISIONS</b></p> <table border="1"> <tr> <th>NO.</th> <th>DATE</th> <th>DWN.</th> <th>CHKD.</th> <th>APPVD.</th> <th>DESCRIPTION</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	NO.	DATE	DWN.	CHKD.	APPVD.	DESCRIPTION						
NO.	DATE	DWN.	CHKD.	APPVD.	DESCRIPTION								
<p>42" AP-1 PIPELINE CONSTRUCTION ALIGNMENT STA 7554+00 TO 7602+00 AUGUSTA COUNTY, VIRGINIA</p>													
<p>SCALE: AS SHOWN DATE: 6/20/17 DRAWN: GPT CHECKED: DLH APPROVED: NET</p>													
<p>SOUTHPOINTE OFFICE 6000 TOWN CENTER BLVD. CANONSBERG, PA 15317 724-873-3545</p>													
<p>PROJECT NO./DASH NO. <b>140468</b> TASK NO. SUB TASK NO. <b>005 00</b> GROUP ID DRAWING NO. <b>D E187</b> 187 OF 344</p>													



PROPERTY OWNERSHIP	PARCEL I.D.	AREA (LF)
LL-07-058-0039	# 084 107	1066 LF
LL-07-058-0040	# 084 108A	1145 LF
LL-07-001-A001	# 084 108J	1793 LF
LL-07-058-A002	# 084 81	707 LF
LL-07-058-A003	# 085 12	2301 LF



LEGEND	
— X — X —	PROPERTY LINE
— X — X —	FENCE
— G — G —	EXISTING GAS PIPELINE
— OH —	OVERHEAD UTILITY LINES
—	ACCESS ROAD
—	PROPOSED GAS PIPELINE
— E —	STORM SEWER
— W —	UNDERGROUND ELECTRIC
—	WATER LINE
— S —	SANITARY SEWER
—	EDGE OF GRAVEL
—	PROPOSED PERMANENT EASEMENT
—	PROPOSED GAS PIPELINE (NO GROUND SURVEY)
[Hatched Box]	EXTRA WORK SPACE
[Cross-hatched Box]	TOPSOIL SEGREGATION AREA
[Dotted Box]	AREA OF NO DISTURBANCE
[Green Box]	WETLAND
[Circle]	UTILITY POLE
[Triangle]	PERMANENT WATERBAR/SLOPE BREAKER
[Square]	TEMPORARY WATERBAR/SLOPE BREAKER
[Diamond]	TRENCH BREAKER/PLUG
[Star]	STREAM CROSSING
[Circle]	CULVERT CROSSING WITH ENHANCED CONTROLS
[Circle]	SEEP
[Arrow]	SLOPE DIRECTION
[Circle]	CONSTRUCTION ENTRANCE WITH DITCH
[Circle]	CULVERT AS NEEDED
[Circle]	CULVERT WATERBAR
[Line]	LOD
[Line]	BSRF
[Line]	111.03
[Line]	C 111.001
[Line]	SOIL TYPE
[Line]	TYPICAL BIG SLOPE CATEGORY SLOPE INCLINATION

**NOTES:**

- COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY - UTM WITH NAD83 DATUM, ZONE 17, US SURVEY FOOT, CENTRAL MERIDIAN 81° W.
- CONTOURS AND TOPOGRAPHIC FEATURES WERE DERIVED FROM LIDAR DATA AND GPS SUB-METER GROUND SURVEY PERFORMED BY GAI CONSULTANTS, INC FROM 11-03-2014 THRU 11-07-2014.
- IMAGERY TAKEN FROM GOOGLE EARTH.
- THE PROPERTY LINES SHOWN ARE BASED ON GIS & TAX ASSESSMENT RECORDS (PROVIDED BY OTHERS). GAI CONSULTANTS MAKE NO GUARANTEE EITHER EXPRESSED OR IMPLIED AS TO THE ACCURACY OF THE RECORDS AS SHOWN ON THESE DRAWINGS.
- EROSION AND SEDIMENTATION CONTROL ELEMENTS MAY BE SHOWN OUTSIDE OF THE WORK AREAS FOR CLARITY ONLY. ACTUAL INSTALLATION SHALL BE WITHIN THE WORK AREAS.
- STREAM AND WETLAND DATA SHOWN ON THE DRAWINGS WAS PROVIDED BY ERM.
- ALL STATIONING SHOWN IS SLOPE STATIONING.
- SILT FENCE AND FILTER SOCK SHALL BE INSTALLED PARALLEL TO CONTOUR TO EXTENT PRACTICABLE IN ACCORDANCE WITH STANDARD DETAIL.
- BEST IN CLASS (BIC) STEEP SLOPE CATEGORY INFORMATION CAN BE FOUND IN THE APPENDIX OF THE STORMWATER POLLUTION PREVENTION PLAN.
- EROSION CONTROL MATTING SHALL BE PLACED IN AREAS OF 30% SLOPE AND GREATER, WHICH ARE INDICATED ON THE BEST IN CLASS STEEP SLOPE BAND.
- ACCESS ROADS HAVE BEEN GROUPED INTO FOUR CATEGORIES: 1) EXISTING ROADS NO IMPROVEMENTS, 2) EXISTING ROADS MINOR IMPROVEMENTS, 3) EXISTING ROADS MAJOR IMPROVEMENTS AND 4) NEW ROADS. APPROPRIATE EROSION AND SEDIMENT CONTROLS WILL BE PROVIDED FOR ROADS IN CATEGORIES 2, 3 AND 4. ROADS IN CATEGORIES 1 AND 2 HAVE ADEQUATE EXISTING DRAINAGE; DRAINAGE FEATURES WILL BE PROVIDED FOR ROADS IN CATEGORIES 3 AND 4.
- ERM IS SOLELY RESPONSIBLE FOR THE NATURE AND LOCATION OF THE DEPICTED Bmps AS OF THE DATE SIGNED AND SEALED BASED ON THE SOURCE DATA PROVIDED AND AS DESCRIBED IN THE NOTES SECTION OF THE INDEX SHEET OF THIS PLAN SET.
- THE CONSTRUCTION RIGHT-OF-WAY (ROW) WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS IN ACCORDANCE WITH SECTION V.4.5 FEDERAL ENERGY REGULATORY COMMISSION (FERC) UPLAND EROSION CONTROL, REVEGETATION, AND MAINTENANCE PLAN, SECTION V.4.5. IN ADDITION, WETLAND AND WATERBODY CROSSINGS WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS IN ACCORDANCE WITH NATIONWIDE PERMIT 12 (NWP) ISSUED BY THE U.S. CORPS OF ENGINEERS.

REVISIONS		DESCRIPTION

**Daniel R. Goldstein**  
 DANIEL R. GOLDSTEIN  
 Lic. No. 047436  
 PROFESSIONAL ENGINEER

**ERM**

**42" AP-1 PIPELINE**  
**CONSTRUCTION ALIGNMENT STA 7602+00 TO 7657+50**  
 AUGUSTA COUNTY, VIRGINIA

**ATLANTIC COAST PIPELINE, LLC**  
 C/O DOMINION TRANSMISSION, INC.  
 925 WHITE OAKS BLVD., BRIDGEPORT, WV 26330

SCALE: AS SHOWN  
 DATE: 6/20/17  
 DRAWN: GPT  
 CHECKED: DLH  
 APPROVED: NET

SOUTHPOINTE OFFICE  
 6000 TOWN CENTER BLDG.  
 CANONSBERG, PA 15317  
 724-873-3545

PROJECT NO./DASH NO. **140468**  
 TASK NO. SUB TASK NO. **005 00**  
 GROUP ID DRAWING NO. **D E188**  
 18 OF 344

GAI CAD FILE NO. R:\050-5159 - GAI - THRASHER - SERP - MAPPING\SURVEY\DRAWING\SEC 3\RR SHEETS 185-188 (42-45).DWG