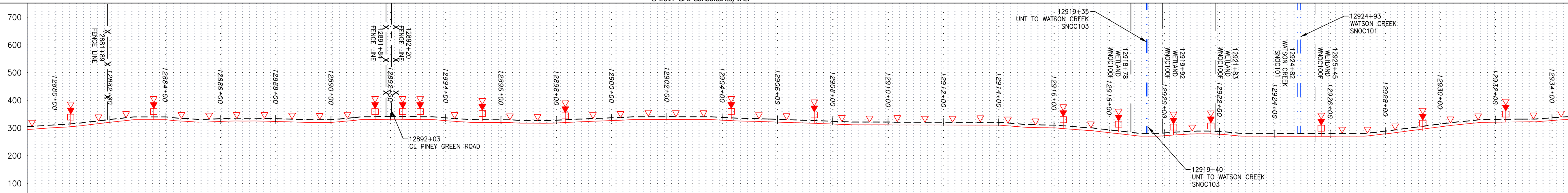
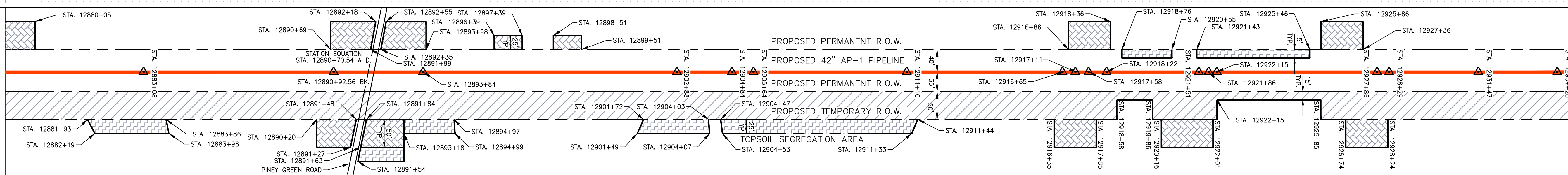


NOTE: STATIONING SHOWN ON THE DRAWING IS BASED ON SLOPE MEASUREMENTS.

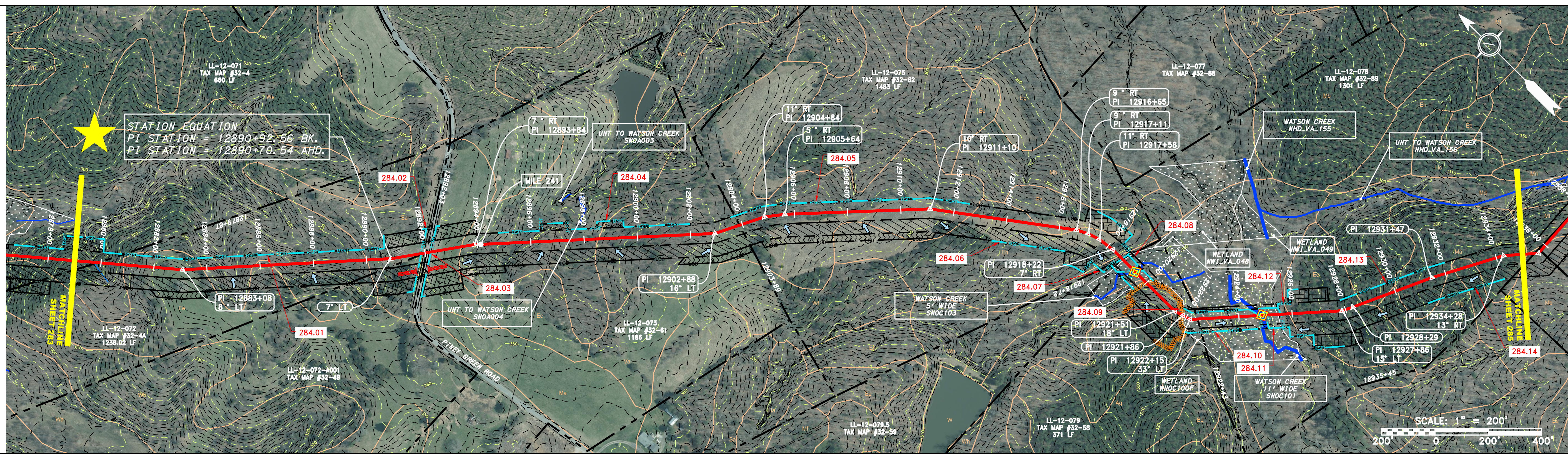
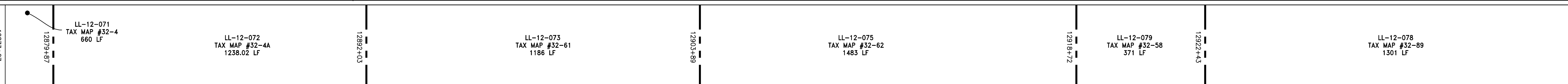
PROFILE VIEW  
 HORZ: 1" = 200'  
 VERT: 1" = 200'



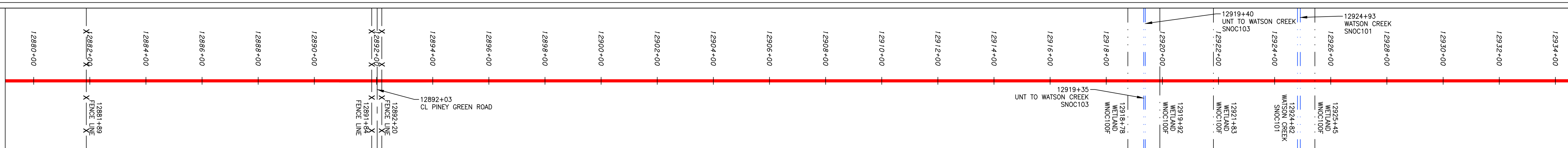
STATIONING & CONSTRUCTION LIMITS



PROPERTY OWNERSHIP



STRING VIEW BAND



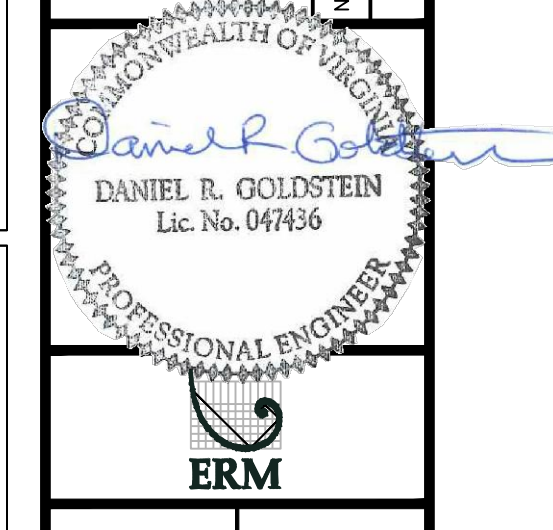
LEGEND

- PROPERTY LINE
- - - FENCE
- - - STREAM
- - - EXISTING GAS PIPELINE
- - - OVERHEAD UTILITY LINES
- - - ACCESS ROAD
- - - PROPOSED GAS PIPELINE
- - - STORM SEWER
- - - UNDERGROUND ELECTRIC
- - - WATER LINE
- - - SANITARY SEWER
- - - EDGE OF GRAVEL
- - - PROPOSED PERMANENT EASEMENT
- - - PROPOSED GAS PIPELINE (NO GROUND SURVEY)
- EXTRA WORK SPACE
- AREA OF NO DISTURBANCE
- WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)
- TOPSOIL SEGREGATION AREA
- PROPOSED TEMPORARY R.O.W.
- UTILITY POLE
- ▲ 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
- LIMIT OF DISTURBANCE
- BELTED SILT RETENTION FENCE (BSRF)
- COMPOST FILTER SOCK
- SEDIMENT BARRIER IDENTIFICATION
- CULVERT IDENTIFICATION
- ORANGE SAFETY FENCE
- ROADSIDE DITCH
- SOIL TYPE
- TYPICAL BIC 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 ON THE DRAWINGS MAY BE SHOWN OUTSIDE OF THE WORK AREAS FOR CLARITY ONLY. ACTUAL INSTALLATION SHALL BE WITHIN THE WORK AREAS.
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- BELTED SILT RETENTION FENCE AND COMPOST FILTER SOCK SHALL BE INSTALLED PARALLEL TO CONTOUR TO EXTENT PRACTICABLE IN ACCORDANCE WITH STANDARD DETAIL. SEDIMENT BARRIER LOCATIONS ARE SUBJECT TO CHANGE BASED ON FIELD CONDITIONS WITH APPROVAL FROM THE PROJECT ENVIRONMENTAL INSPECTOR.
- BEST IN CLASS (BIC) STEEP SLOPE CATEGORY INFORMATION CAN BE FOUND IN THE APPENDIX OF THE STORMWATER POLLUTION PREVENTION PLAN.
- EROSION CONTROL MATING SHALL BE PLACED IN AREAS OF 30% SLOPE AND OTHER AREAS 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 SEDIMENTATION 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 INHERENT SHEET OF THIS PLAN SET.
- 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) UP-AND 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 NATIONAL PERMIT 12 (NWP) ISSUED BY THE U.S. CORPS OF ENGINEERS.

NO.	DATE	BY	CHKD.	APPD.	DESCRIPTION



42" AP-1 PIPELINE  
 CONSTRUCTION ALIGNMENT STA. 12879+00 TO 12935+00  
 ATLANTIC COAST PIPELINE, LLC  
 C/O DOMINION TRANSMISSION, INC.  
 925 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330  
 NOTTOWAY COUNTY, VIRGINIA

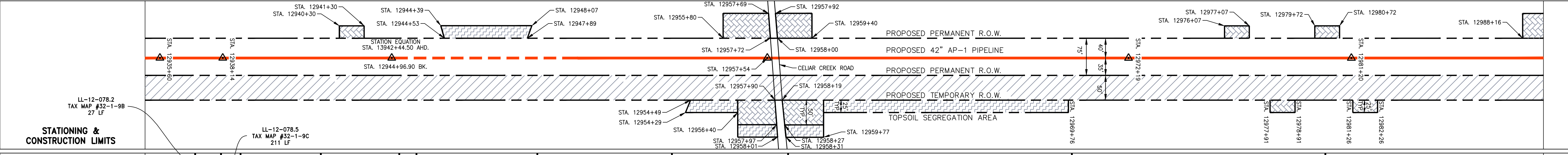
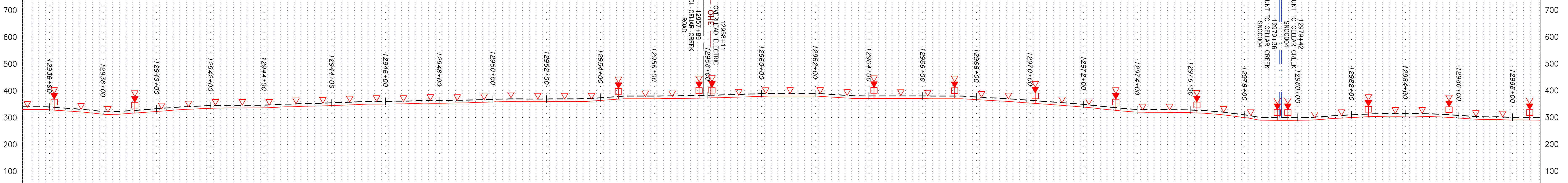
SCALE: AS SHOWN  
 DATE: 11/23/2016  
 DRAWN: JFS  
 CHECKED: DLH  
 APPROVED: NET



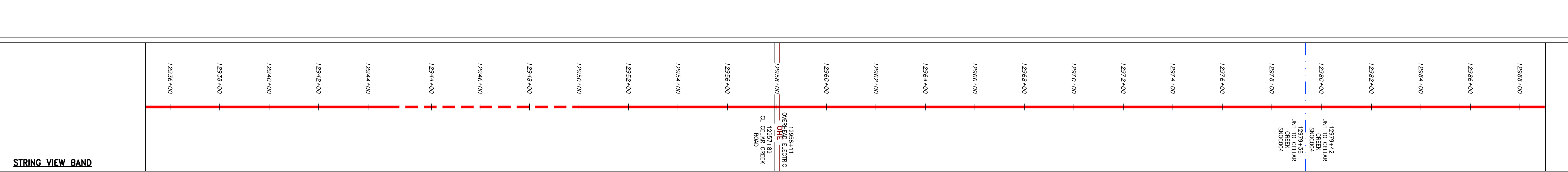
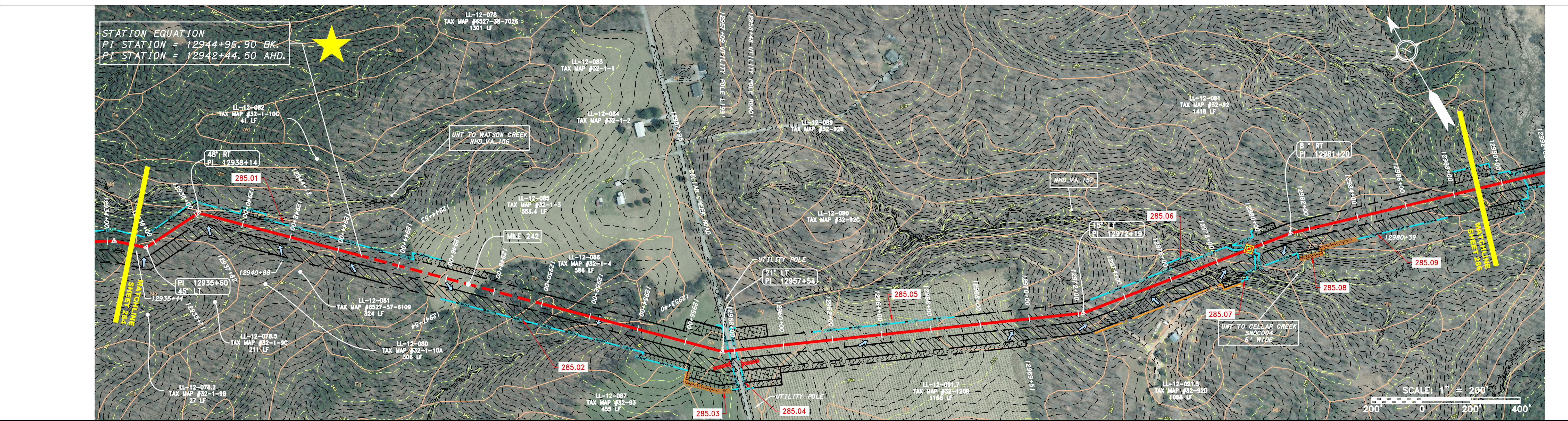
PROJECT NO./DASH NO.	C140468
TASK NO./SUB TASK NO.	005 / 00
GROUP ID	D
DRAWING NO.	E284
284 OF 344	

NOTE: STATIONING SHOWN ON THE DRAWING IS BASED ON SLOPE MEASUREMENTS.

PROFILE VIEW  
 HORZ: 1" = 200'  
 VERT: 1" = 200'



PROPERTY OWNERSHIP	LL-12-078 TAX MAP #32-1-9B 27 LF	LL-12-078.5 TAX MAP #32-1-9C 211 LF	LL-12-080 TAX MAP #32-1-10A 306 LF	LL-12-081 TAX MAP #32-1-10B 324 LF	LL-12-082 TAX MAP #32-1-10C 41 LF	LL-12-085 TAX MAP #32-1-3 553.4 LF	LL-12-086 TAX MAP #32-1-4 586 LF	LL-12-087 TAX MAP #32-93 455 LF	LL-12-091.7 TAX MAP #32-120B 1156 LF	LL-12-091.5 TAX MAP #32-92D 1088 LF	LL-12-091 TAX MAP #32-92 1418 LF
12936+00	12936+00	12936+00	12936+00	12936+00	12936+00	12936+00	12936+00	12936+00	12936+00	12936+00	12936+00



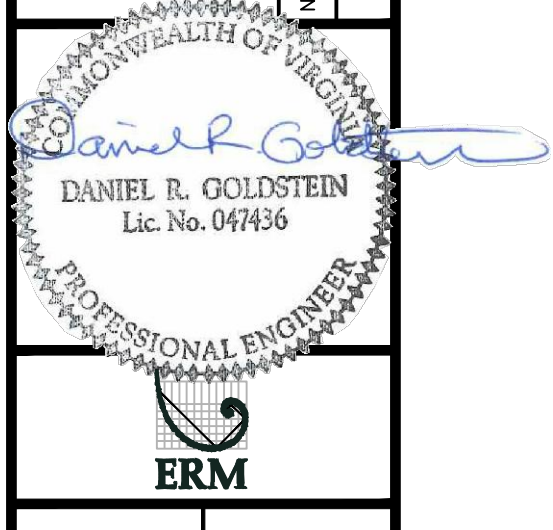
**LEGEND**

— X — X —	PROPERTY LINE	— E —	STORM SEWER	—	EXTRA WORK SPACE	—	TOPSOIL SEGREGATION AREA	—	LOD	—	LIMIT OF DISTURBANCE
—	FENCE	— W —	UNDERGROUND ELECTRIC	—	AREA OF NO DISTURBANCE	—	PROPOSED TEMPORARY R.O.W.	—	BSRF	—	BELTED SILT RETENTION FENCE (BSRF)
— G — G —	STREAM	— SAN —	WATER LINE	—	—	—	—	—	111.03	—	COMPOST FILTER SOCK
— G — G —	EXISTING GAS PIPELINE	— SAN —	SANITARY SEWER	—	—	—	—	—	C 111.001	—	SEDIMENT BARRIER IDENTIFICATION
— OH —	OVERHEAD UTILITY LINES	—	EDGE OF GRAVEL	—	—	—	—	—	X	—	ORANGE SAFETY FENCE
—	ACCESS ROAD	—	PROPOSED PERMANENT EASEMENT	—	—	—	—	—	—	—	ROADSIDE DITCH
—	PROPOSED GAS PIPELINE (NO GROUND SURVEY)	—	PROPOSED GAS PIPELINE	—	—	—	—	—	—	—	SOIL TYPE
—	—	—	—	—	—	—	—	—	—	—	A1 (E)
—	—	—	—	—	—	—	—	—	—	—	30-58%
—	—	—	—	—	—	—	—	—	—	—	TYPICAL BIC 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.
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- 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 MAY BE SHOWN OUTSIDE OF THE WORK AREAS FOR CLARITY ONLY. ACTUAL INSTALLATION SHALL BE WITHIN THE WORK AREAS.
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- BEST IN CLASS (BIC) STEEP SLOPE CATEGORY INFORMATION CAN BE FOUND IN THE APPENDIX OF THE STORMWATER POLLUTION PREVENTION PLAN.
- EROSION CONTROL MATING SHALL BE PLACED IN AREAS OF 3% 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 CONTROL 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 1 AND 2.
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NO.	DATE	BY	DESCRIPTION



ATLANTIC COAST PIPELINE, LLC  
 C/O DOMINION TRANSMISSION, INC.  
 925 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330  
 NOTTOWAY COUNTY, VIRGINIA

SCALE: AS SHOWN  
 DATE: 11/23/2016  
 DRAWN: SAQ  
 CHECKED: DLH  
 APPROVED: NET

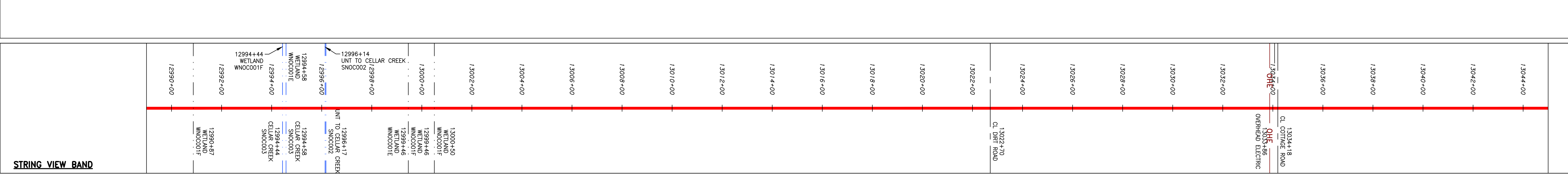
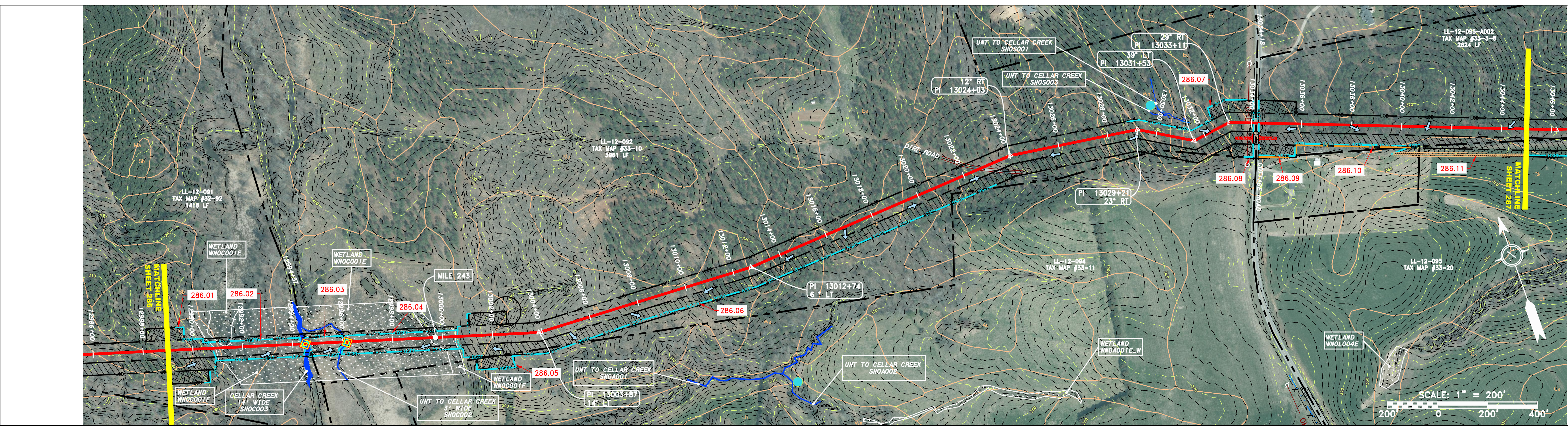
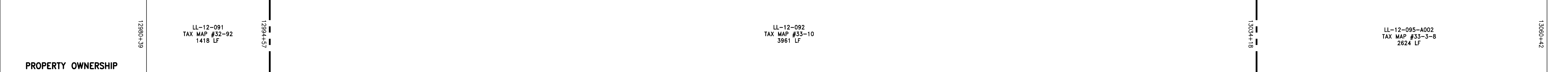
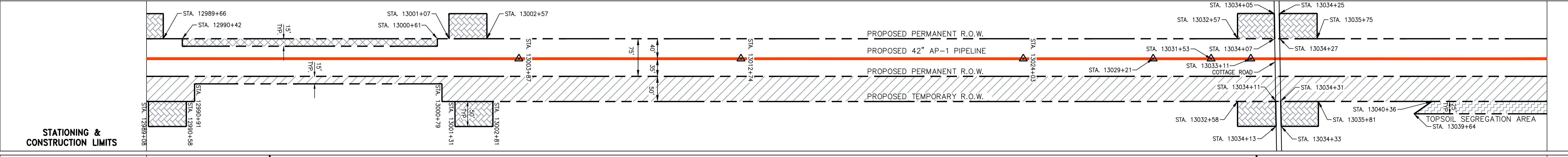
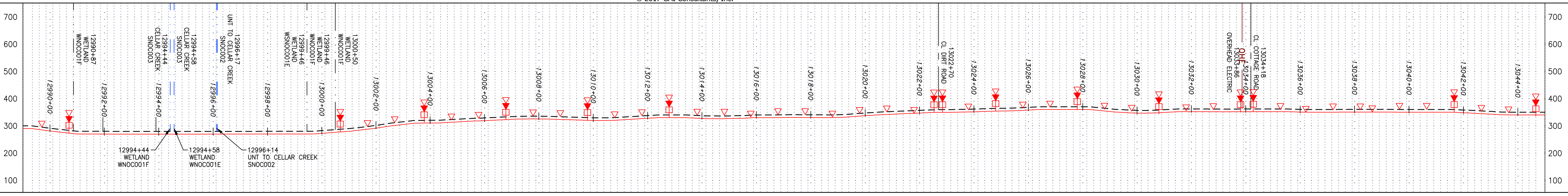


SOUTHPOINTE OFFICE  
 6000 TOWN CENTER BLVD.  
 CANONSBURG, PA 15317  
 724-873-3545

PROJECT NO./DASH NO.	C140468
TASK NO. SUB TASK NO.	005 00
GROUP ID DRAWING NO.	D E285
285 OF 344	6/5/2017 8:32 AM

NOTE: STATIONING SHOWN ON THE DRAWING IS BASED ON SLOPE MEASUREMENTS.

PROFILE VIEW  
 HORZ: 1" = 200'  
 VERT: 1" = 200'



**LEGEND**

— X — X —	PROPERTY LINE	— E —	STORM SEWER	▨	EXTRA WORK SPACE	▨	TOPSOIL SEGREGATION AREA	▨	PROPOSED PERMANENT R.O.W.	▨	UTILITY POLE
— W —	FENCE	— W —	UNDERGROUND ELECTRIC	▨	AREA OF NO DISTURBANCE	▨	PROPOSED TEMPORARY R.O.W.	▨	UTILITY POLE	▨	UTILITY POLE
— G — G —	STREAM	— S —	WATER LINE	▨	WETLAND	▨	WETLAND	▨	WETLAND	▨	WETLAND
— G — G —	EXISTING GAS PIPELINE	— S —	SANITARY SEWER	▨	WETLAND	▨	WETLAND	▨	WETLAND	▨	WETLAND
— OH —	OVERHEAD UTILITY LINES	— E —	EDGE OF GRAVEL	▨	WETLAND	▨	WETLAND	▨	WETLAND	▨	WETLAND
— A —	ACCESS ROAD	— E —	PROPOSED PERMANENT EASEMENT	▨	WETLAND	▨	WETLAND	▨	WETLAND	▨	WETLAND
— G —	PROPOSED GAS PIPELINE	— E —	PROPOSED GAS PIPELINE (NO GROUND SURVEY)	▨	WETLAND	▨	WETLAND	▨	WETLAND	▨	WETLAND

**NOTES:**

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NO.	DATE	BY	CHKD.	APPD.	DESCRIPTION

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

CONSTRUCTION ALIGNMENT STA. 12989+00 TO 13045+00

NOTTOWAY COUNTY, VIRGINIA

SCALE:	AS SHOWN
DATE:	11/23/2016
DRAWN:	JFS
CHECKED:	DLH
APPROVED:	NET

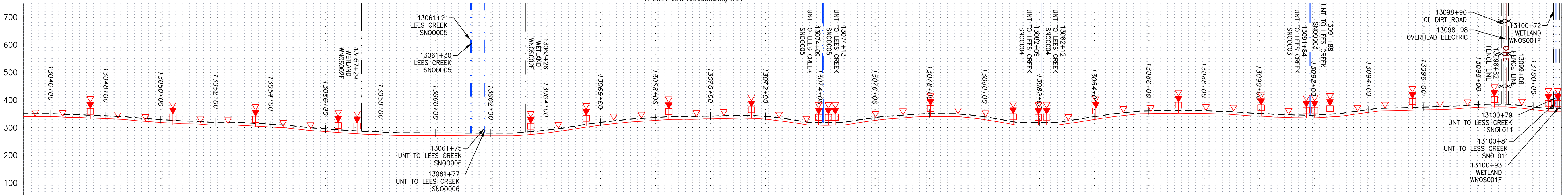
**gai consultants**

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

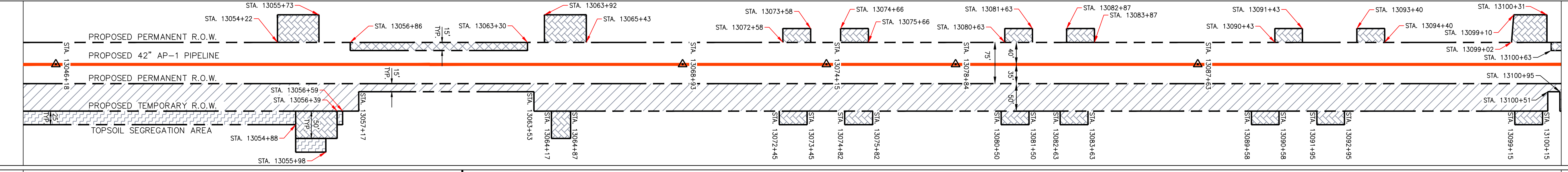
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TASK NO.	005
SUB TASK NO.	00
GROUP ID	D
DRAWING NO.	E286
286	OF 344

NOTE: STATIONING SHOWN ON THE DRAWING IS BASED ON SLOPE MEASUREMENTS.

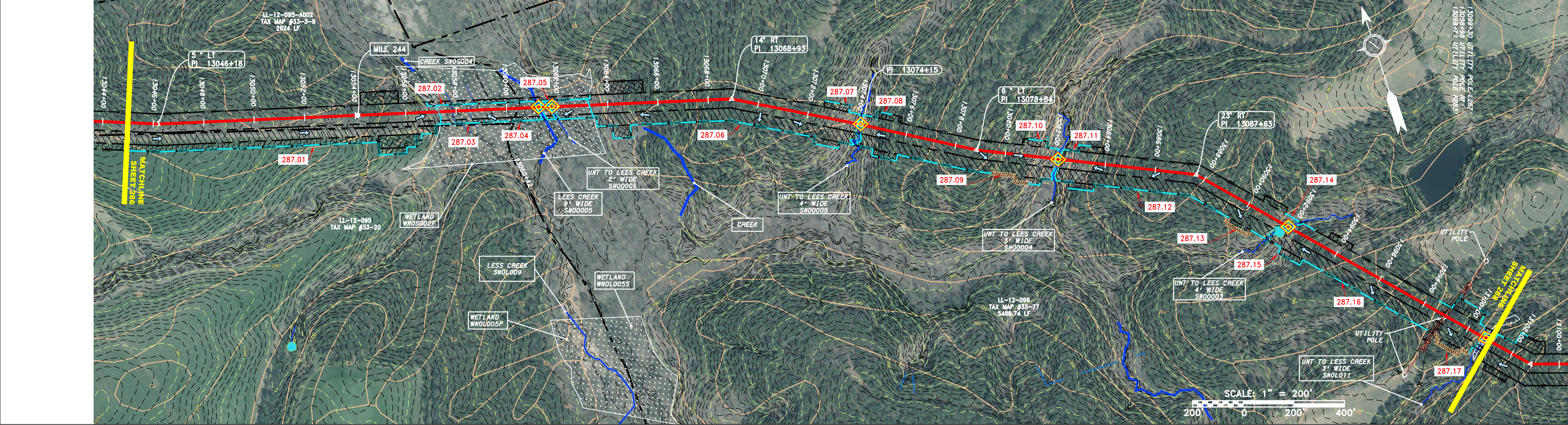
PROFILE VIEW  
 HORZ: 1" = 200'  
 VERT: 1" = 200'



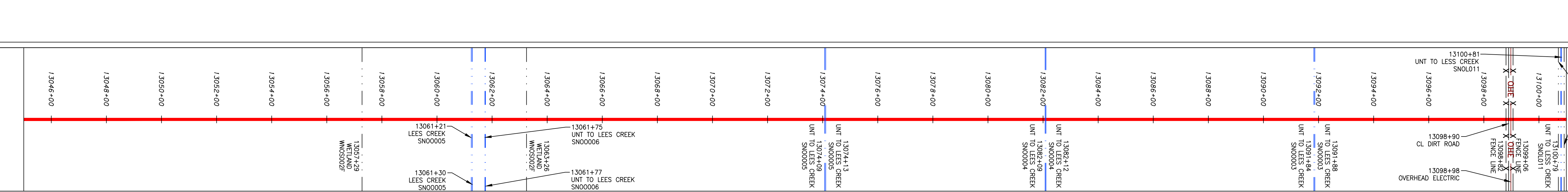
STATIONING & CONSTRUCTION LIMITS



PROPERTY OWNERSHIP



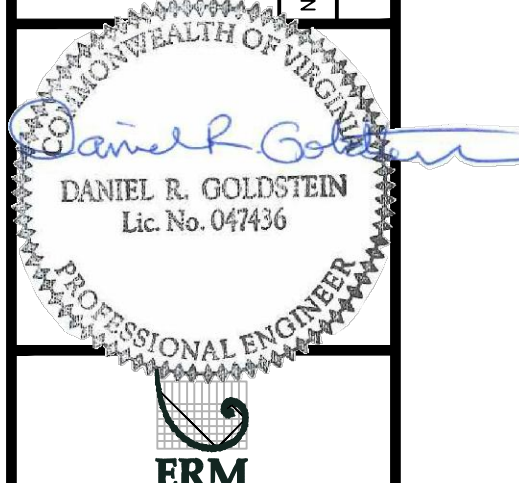
STRING VIEW BAND



LEGEND

<p>PROPERTY LINE</p> <p>FENCE</p> <p>STREAM</p> <p>EXISTING GAS PIPELINE</p> <p>OVERHEAD UTILITY LINES</p> <p>ACCESS ROAD</p> <p>PROPOSED GAS PIPELINE</p>	<p>STORM SEWER</p> <p>UNDERGROUND ELECTRIC</p> <p>WATER LINE</p> <p>SANITARY SEWER</p> <p>SANITARY SEWER</p> <p>EDGE OF GRAVEL</p> <p>PROPOSED PERMANENT EASEMENT</p> <p>PROPOSED GAS PIPELINE (NO GROUND SURVEY)</p>	<p>EXTRA WORK SPACE</p> <p>AREA OF NO DISTURBANCE</p> <p>WETLAND</p> <p>TOPSOIL SEGREGATION AREA</p> <p>PROPOSED TEMPORARY R.O.W.</p> <p>UTILITY POLE</p>	<p>PERMANENT WATERBAR/SLOPE BREAKER</p> <p>TEMPORARY WATERBAR/SLOPE BREAKER</p> <p>TRENCH BREAKER/PLUG</p> <p>STREAM CROSSING</p> <p>USFSW STREAM CROSSING WITH ENHANCED CONTROLS</p> <p>SEEP</p> <p>SLOPE DIRECTION</p> <p>CONSTRUCTION ENTRANCE WITH DITCH</p> <p>CULVERT AS NEEDED</p> <p>CULVERT/WATERBAR</p>	<p>LOD</p> <p>BSRF</p> <p>COMPOST FILTER SOCK</p> <p>SEDIMENT BARRIER IDENTIFICATION</p> <p>CULVERT IDENTIFICATION</p> <p>ORANGE SAFETY FENCE</p> <p>ROADSIDE DITCH</p> <p>SOIL TYPE</p> <p>TYPICAL BIC SLOPE CATEGORY</p> <p>SLOPE INCLINATION</p>	<p>LIMIT OF DISTURBANCE</p> <p>BELTED SILT RETENTION FENCE (BSRF)</p> <p>COMPOST FILTER SOCK</p> <p>SEDIMENT BARRIER IDENTIFICATION</p> <p>CULVERT IDENTIFICATION</p> <p>ORANGE SAFETY FENCE</p> <p>ROADSIDE DITCH</p> <p>SOIL TYPE</p> <p>TYPICAL BIC SLOPE CATEGORY</p> <p>SLOPE INCLINATION</p>	<p>NOTES:</p> <ol style="list-style-type: none"> <li>COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY - UTM WITH NAD83 DATUM, ZONE 17, US SURVEY FOOT, CENTRAL MERIDIAN 81° W.</li> <li>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 11-27-2014.</li> <li>IMAGERY TAKEN FROM GOOGLE EARTH.</li> <li>THE PROPERTY LINES SHOWN ON THE DRAWINGS WERE PROVIDED BY ERM.</li> <li>ACCURACY OF THE RECORDS AS SHOWN ON THESE DRAWINGS.</li> <li>STREAM AND WETLAND DATA SHOWN ON THE DRAWINGS WERE PROVIDED BY ERM.</li> <li>EROSION AND SEDIMENTATION CONTROL ELEMENTS MAY BE SHOWN OUTSIDE OF THE WORK AREAS FOR CLARITY ONLY. ACTUAL INSTALLATION SHALL BE WITHIN THE WORK AREAS.</li> <li>BELTED SILT RETENTION FENCE AND COMPOST FILTER SOCK SHALL BE INSTALLED PARALLEL TO CONTOUR TO EXTENT PRACTICABLE IN ACCORDANCE WITH STANDARD DETAIL. SEDIMENT BARRIER LOCATIONS ARE SUBJECT TO CHANGE BASED ON FIELD CONDITIONS WITH APPROVAL FROM THE PROJECT ENVIRONMENTAL INSPECTOR.</li> <li>BEST IN CLASS (BIC) STEEP SLOPE CATEGORY INFORMATION CAN BE FOUND IN THE APPENDIX OF THE STORMWATER POLLUTION PREVENTION PLAN.</li> <li>EROSION CONTROL MATING SHALL BE PLACED IN AREAS OF 30% SLOPE AND GREATER WHICH ARE INDICATED ON THE BEST IN CLASS STEEP SLOPE BAND.</li> <li>ACCESS ROADS HAVE BEEN GROUPED INTO FOUR CATEGORIES - 1) EXISTING ROADS NO IMPROVEMENTS, 2) EXISTING ROADS MAJOR IMPROVEMENTS AND 3) 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.</li> <li>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 REVISION SHEET OF THIS PLAN SET.</li> <li>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, REVISION 1, 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.</li> </ol>
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NO.	DATE	BY	DESCRIPTION



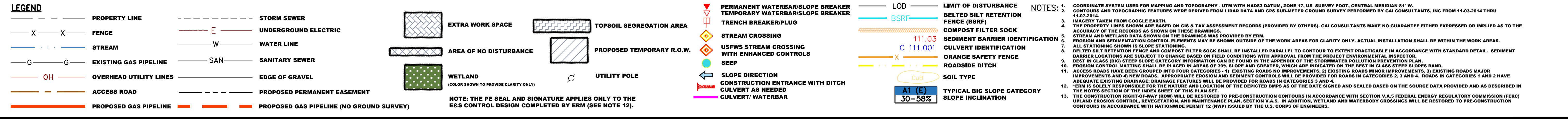
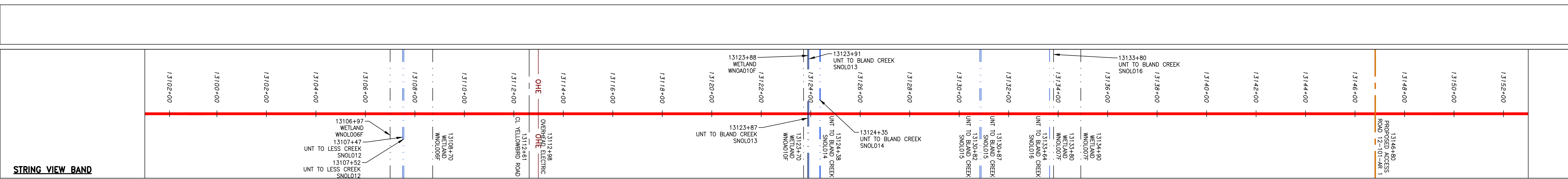
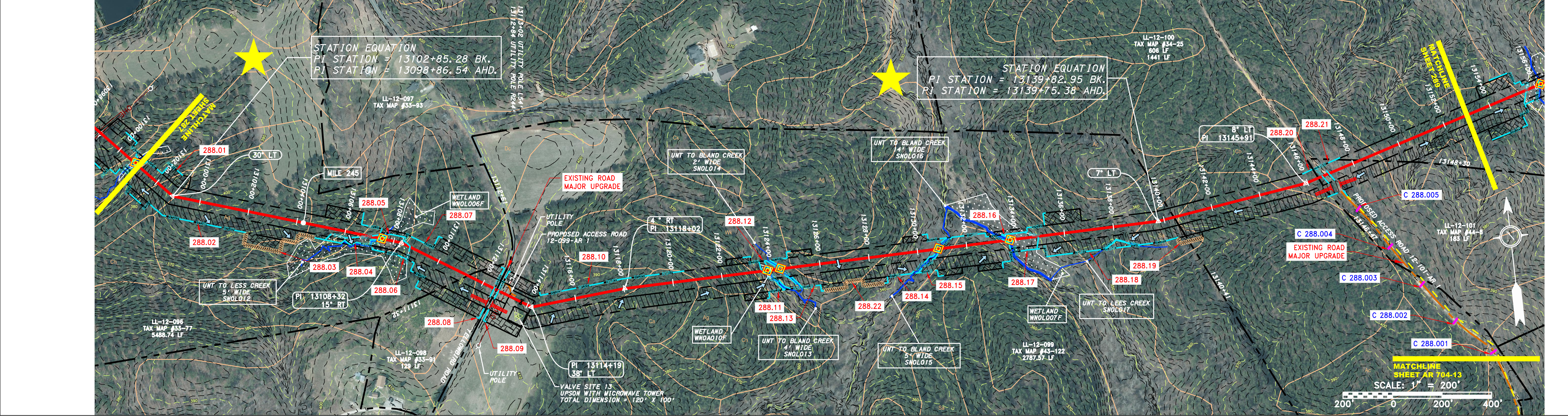
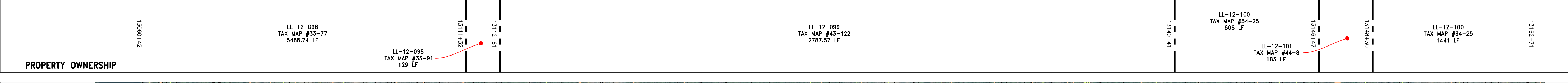
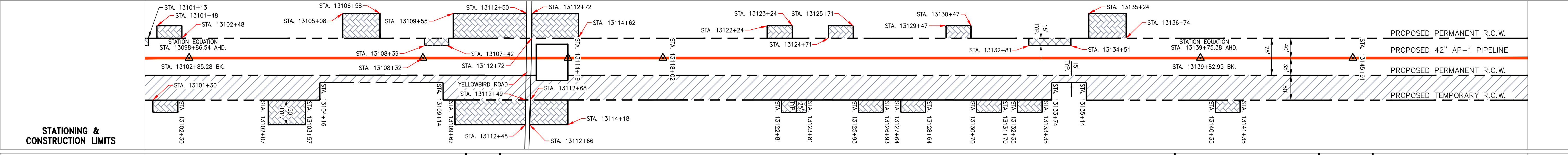
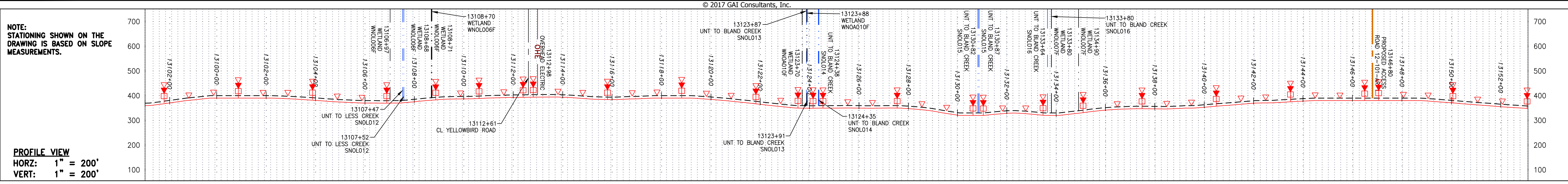
42" AP-1 PIPELINE  
 CONSTRUCTION ALIGNMENT STA. 13045+00 TO 13101+00  
 NOTTOWAY COUNTY, VIRGINIA  
 ATLANTIC COAST PIPELINE, LLC  
 C/O DOMINION TRANSMISSION, INC.  
 925 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330

SCALE: AS SHOWN
DATE: 11/23/2016
DRAWN: JFS
CHECKED: DLH
APPROVED: NET



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

PROJECT NO./DASH NO.	C140468
TASK NO./SUB TASK NO.	005 / 00
GROUP ID	D
DRAWING NO.	E287
287 OF 344	



**REVISIONS**

NO.	DATE	BY	APPD.	DESCRIPTION

**Professional Engineer**  
 DANIEL R. GOLDSTEIN  
 Lic. No. 047436

**ERM**

**CONSTRUCTION ALIGNMENT STA. 13101+00 TO 13153+00**  
 NOTTOWAY COUNTY, VIRGINIA

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

**SCALE: AS SHOWN**  
**DATE: 11/23/2016**  
**DRAWN: JFS**  
**CHECKED: DLH**  
**APPROVED: NET**

**gai consultants**

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

**PROJECT NO./DASH NO.**  
**C140468**

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

**GROUP ID DRAWING NO.**  
**D E288**

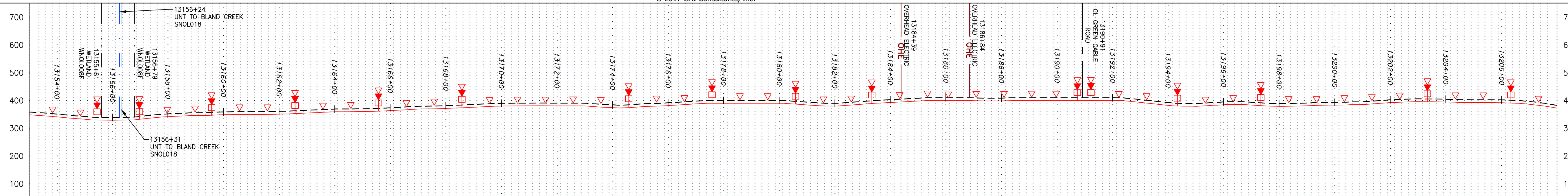
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6/2/2017 8:49 AM

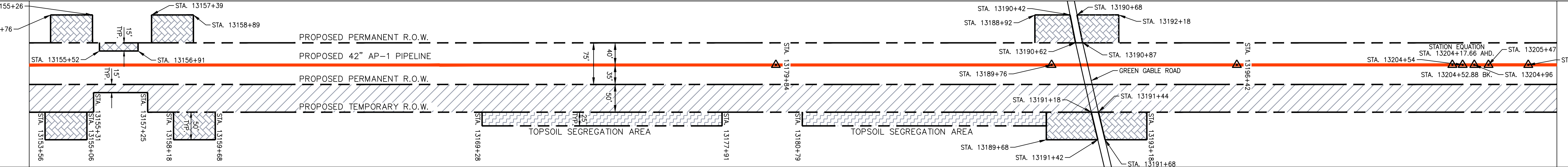
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NOTE: STATIONING SHOWN ON THE DRAWING IS BASED ON SLOPE MEASUREMENTS.

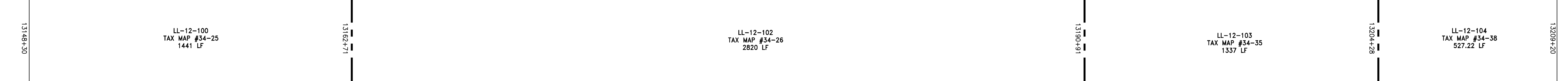
PROFILE VIEW  
 HORZ: 1" = 200'  
 VERT: 1" = 200'



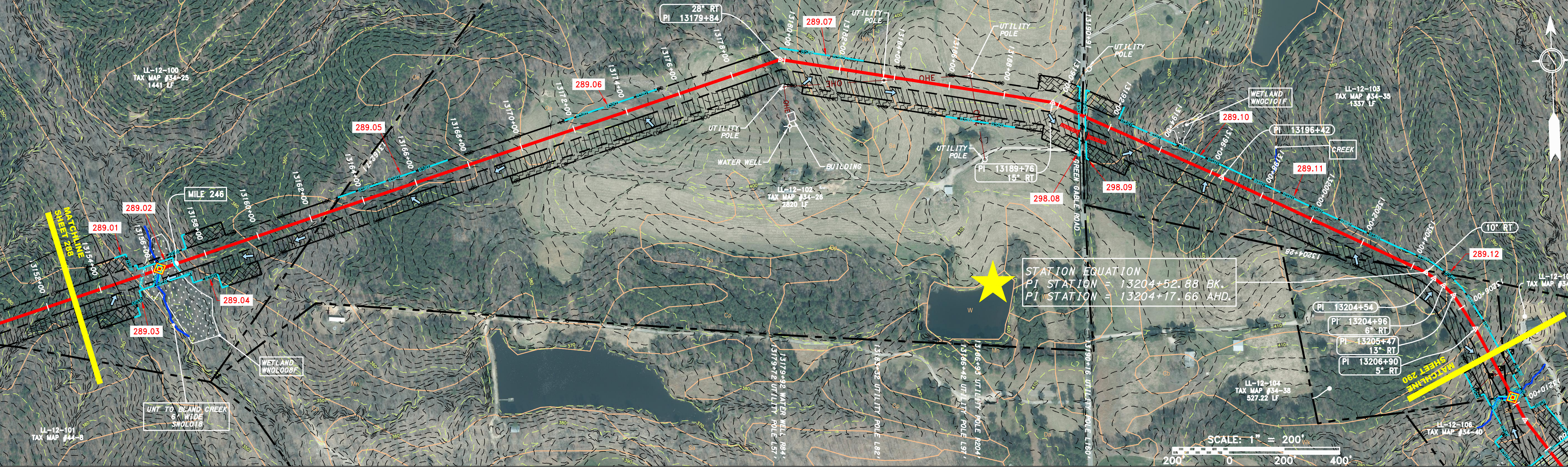
STATIONING & CONSTRUCTION LIMITS



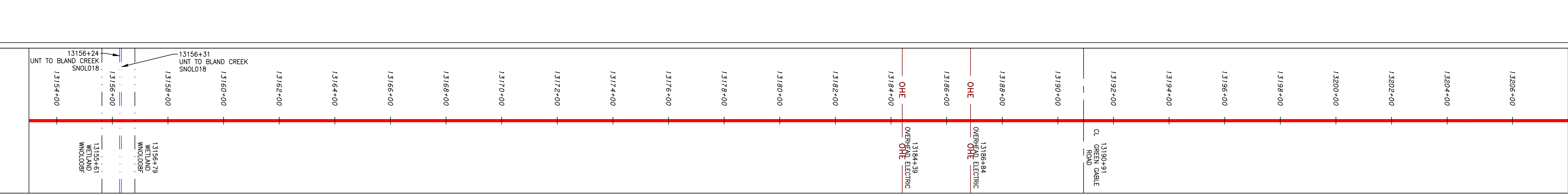
PROPERTY OWNERSHIP



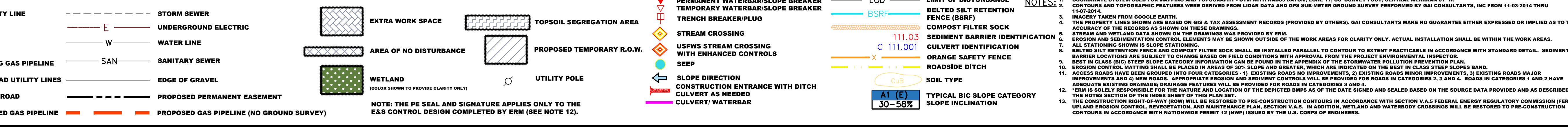
LEGEND



STRING VIEW BAND



LEGEND



NOTES: 1. COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY - UTM WITH NAD83 DATUM, ZONE 17, US SURVEY FOOT, CENTRAL MERIDIAN 81° W. 2. 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. 3. THE PROPERTY LINES SHOWN ON THE DRAWINGS 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. 4. STREAM AND WETLAND DATA SHOWN ON THE DRAWINGS WAS PROVIDED BY ERM. 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. BELTED SILT RETENTION FENCE AND COMPOST FILTER SOCK SHALL BE INSTALLED PARALLEL TO CONTOUR TO EXTENT PRACTICABLE IN ACCORDANCE WITH STANDARD DETAIL. SEDIMENT BARRIERS LOCATIONS ARE SUBJECT TO CHANGE BASED ON FIELD CONDITIONS WITH APPROVAL FROM THE PROJECT ENVIRONMENTAL INSPECTOR. 7. BEST IN CLASS (BIC) STEEP SLOPE CATEGORY INFORMATION CAN BE FOUND IN THE APPENDIX OF THE STORMWATER POLLUTION PREVENTION PLAN. 8. EROSION CONTROL MATING SHALL BE PLACED IN AREAS OF 30% SLOPE AND GREATER, WHICH ARE INDICATED ON THE BEST IN CLASS STEEP SLOPES BAND. 9. 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. 10. 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. 11. 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) UP-LAND 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	BY	APP'D.	DESCRIPTION

PROFESSIONAL ENGINEER  
 DANIEL R. GOLDSTEIN  
 Lic. No. 047436

ERM

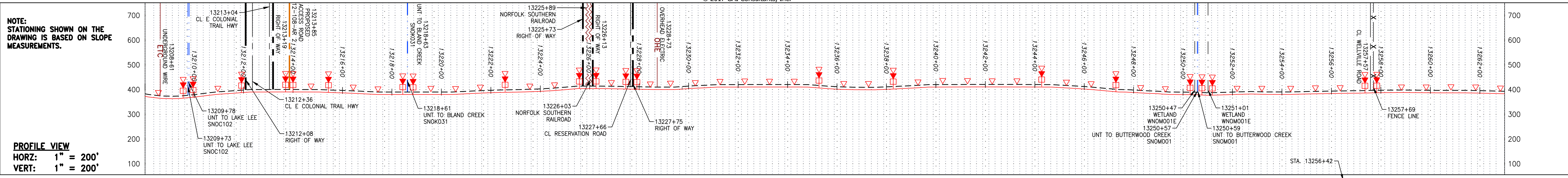
ATLANTIC COAST PIPELINE, LLC  
 C/O DOMINION TRANSMISSION, INC.  
 925 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330

SCALE:	AS SHOWN
DATE:	11/23/2016
DRAWN:	JFS
CHECKED:	DLH
APPROVED:	NET

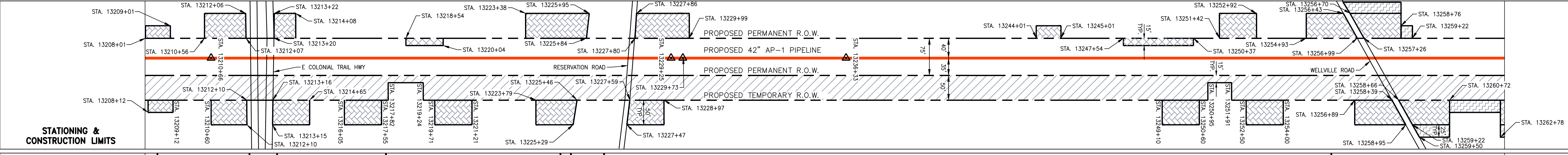
gai consultants

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

PROJECT NO./DASH NO.	C140468
TASK NO.	005
TASK NO.	00
GROUP ID	D
DRAWING NO.	E289
289	OF 344



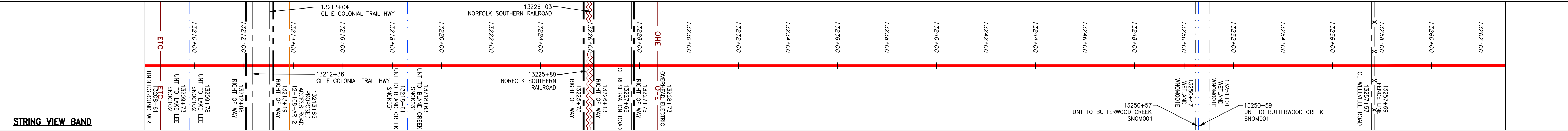
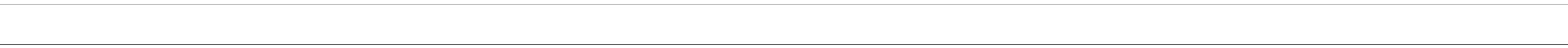
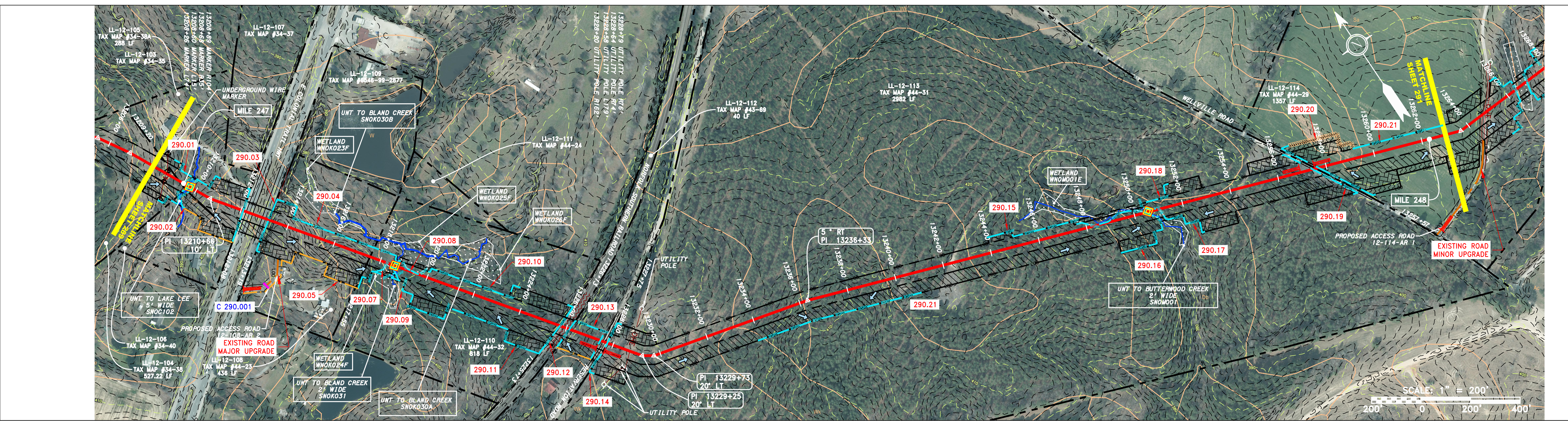
**PROFILE VIEW**  
 HORZ: 1" = 200'  
 VERT: 1" = 200'



**STATIONING & CONSTRUCTION LIMITS**



**PROPERTY OWNERSHIP**



**LEGEND**

**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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- 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.
- BELTED SILT RETENTION FENCE AND COMPOST FILTER SOCK SHALL BE INSTALLED PARALLEL TO CONTOUR TO EXTENT PRACTICABLE IN ACCORDANCE WITH STANDARD DETAIL. SEDIMENT BARRIER LOCATIONS ARE SUBJECT TO CHANGE BASED ON FIELD CONDITIONS WITH APPROVAL FROM THE PROJECT ENVIRONMENTAL INSPECTOR.
- BEST IN CLASS (BIC) STEEP SLOPE CATEGORY INFORMATION CAN BE FOUND IN THE APPENDIX OF THE STORMWATER POLLUTION PREVENTION PLAN.
- EROSION CONTROL MATING SHALL BE PLACED IN AREAS OF 30% SLOPE AND GREATER, WHICH ARE INDICATED ON THE BEST IN CLASS STEEP SLOPES 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.
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NO.	DATE	BY	CHKD.	APPD.	DESCRIPTION

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

**ATLANTIC COAST PIPELINE, LLC**  
 C/O DOMINION TRANSMISSION, INC.  
 925 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330  
 NOTTOWAY COUNTY, VIRGINIA

SCALE:	AS SHOWN
DATE:	11/23/2016
DRAWN:	JFS
CHECKED:	DLH
APPROVED:	NET

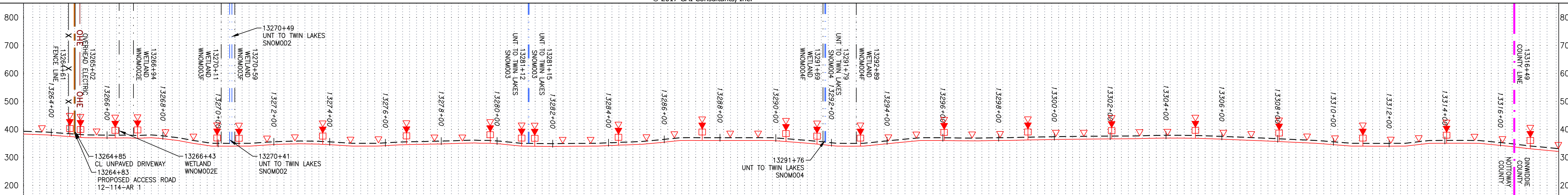
**gai consultants**

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

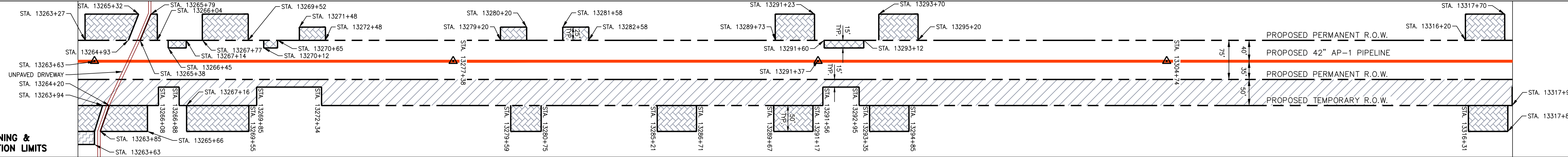
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TASK NO.	005
SUB TASK NO.	00
GROUP ID	D
DRAWING NO.	E290
290 OF 344	

NOTE: STATIONING SHOWN ON THE DRAWING IS BASED ON SLOPE MEASUREMENTS.

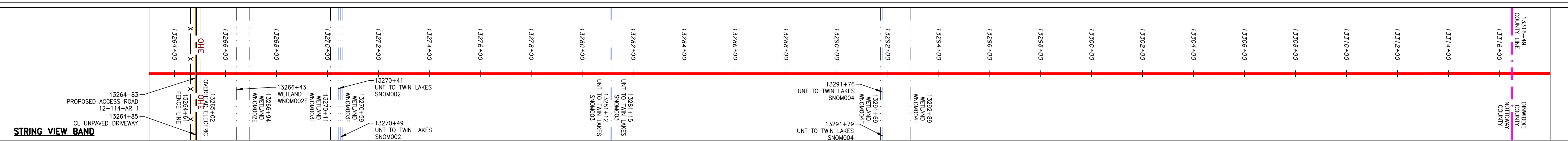
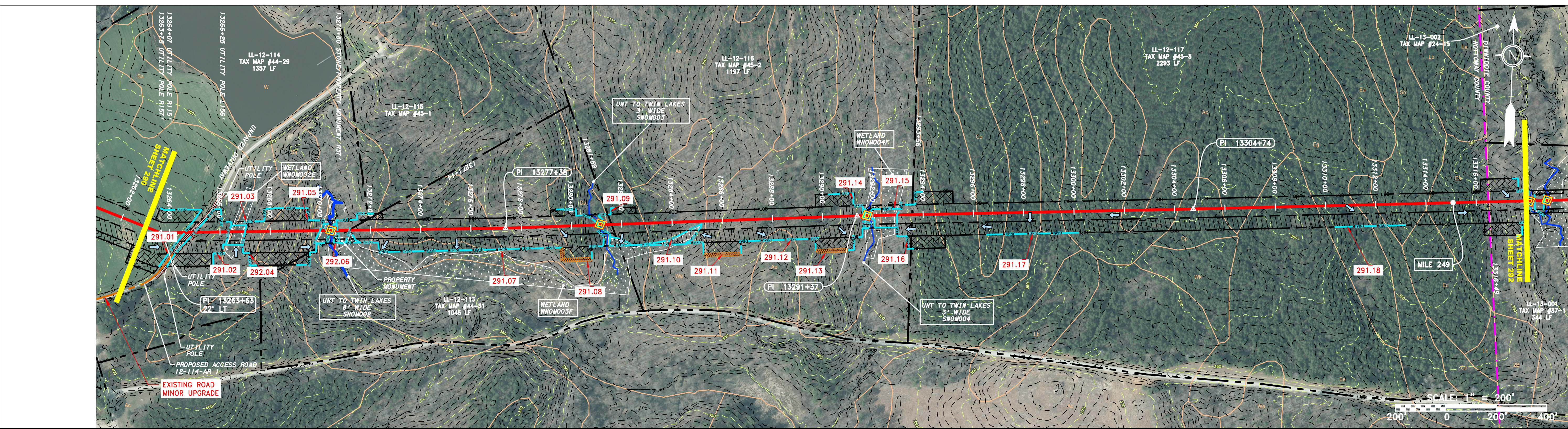
PROFILE VIEW  
 HORZ: 1" = 200'  
 VERT: 1" = 200'



STATIONING & CONSTRUCTION LIMITS



PROPERTY OWNERSHIP



LEGEND		NOTES:	
—	PROPERTY LINE	▲	PERMANENT WATERBAR/SLOPE BREAKER
- - -	STORM SEWER	◆	TEMPORARY WATERBAR/SLOPE BREAKER
- - -	UNDERGROUND ELECTRIC	◆	TRENCH BREAKER/PLUG
- - -	WATER LINE	◆	STREAM CROSSING
- - -	SANITARY SEWER	◆	USPWS STREAM CROSSING WITH ENHANCED CONTROLS
- - -	EDGE OF GRAVEL	◆	SEEP
- - -	PROPOSED PERMANENT EASEMENT	◆	SLOPE DIRECTION
- - -	PROPOSED GAS PIPELINE (NO GROUND SURVEY)	◆	CONSTRUCTION ENTRANCE WITH DITCH
- - -	EXTRA WORK SPACE	◆	CULVERT AS NEEDED
- - -	AREA OF NO DISTURBANCE	◆	CULVERT/WATERBAR
- - -	TOPSOIL SEGREGATION AREA	◆	LIMIT OF DISTURBANCE
- - -	PROPOSED TEMPORARY R.O.W.	◆	BELTED SILT RETENTION FENCE (BSRF)
- - -	WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)	◆	COMPOST FILTER SOCK
- - -	UTILITY POLE	◆	SEDIMENT BARRIER IDENTIFICATION
- - -		◆	ORANGE SAFETY FENCE
- - -		◆	ROADSIDE DITCH
- - -		◆	SOIL TYPE
- - -		◆	TYPICAL BIC SLOPE CATEGORY SLOPE INCLINATION

REVISIONS			
NO.	DATE	BY	DESCRIPTION

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

SCALE:	AS SHOWN
DATE:	11/23/2016
DRAWN:	JFS
CHECKED:	DLH
APPROVED:	NET

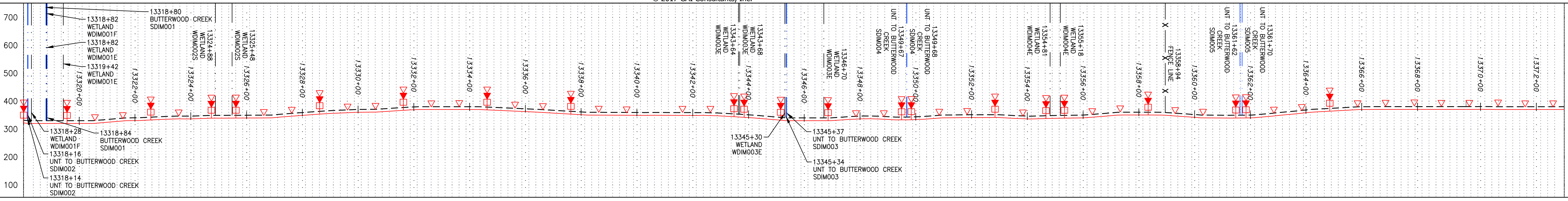
SOUTHPOINTE OFFICE  
 6000 TOWN CENTER BLVD.  
 CANONSBURG, PA 15317  
 724-873-3545

PROJECT NO./DASH NO.		140468	
TASK NO.	SUB TASK NO.	005	00
GROUP ID	DRAWING NO.	D	E291
291	OF	344	

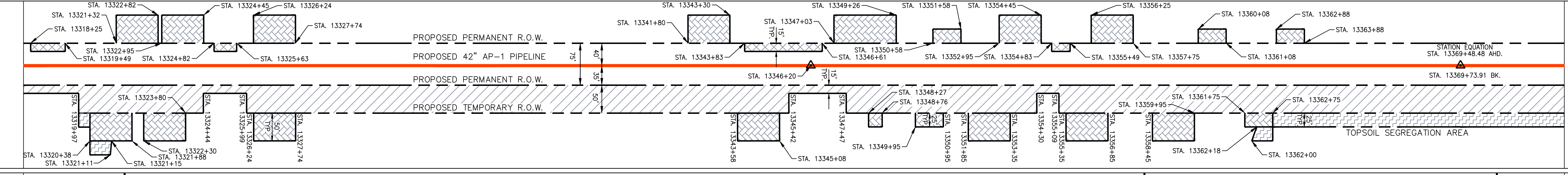


**NOTE:**  
STATIONING SHOWN ON THE DRAWING IS BASED ON SLOPE MEASUREMENTS.

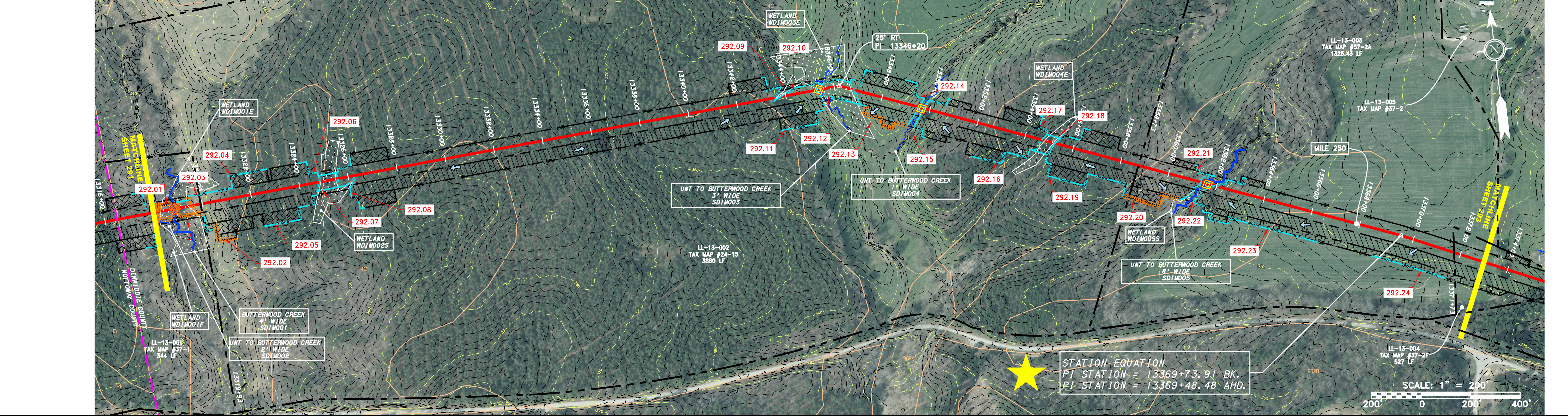
**PROFILE VIEW**  
HORZ: 1" = 200'  
VERT: 1" = 200'



**STATIONING & CONSTRUCTION LIMITS**



**PROPERTY OWNERSHIP**



STATION EQUATION  
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PI STATION = 13369+48.48 AHD.

SCALE: 1" = 200'

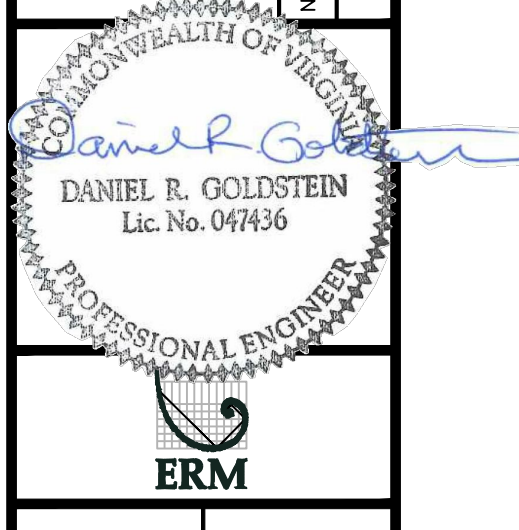
**LEGEND**

- PROPERTY LINE
- X X FENCE
- STREAM
- G G EXISTING GAS PIPELINE
- OH OVERHEAD UTILITY LINES
- ACCESS ROAD
- PROPOSED GAS PIPELINE
- STORM SEWER
- UNDERGROUND ELECTRIC
- WATER LINE
- SANITARY SEWER
- EDGE OF GRAVEL
- PROPOSED PERMANENT EASEMENT
- PROPOSED GAS PIPELINE (NO GROUND SURVEY)
- EXTRA WORK SPACE
- AREA OF NO DISTURBANCE
- WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)
- TOPSOIL SEGREGATION AREA
- PROPOSED TEMPORARY R.O.W.
- UTILITY POLE
- PERMANENT WATERBAR/SLOPE BREAKER
- TEMPORARY WATERBAR/SLOPE BREAKER
- TRENCH BREAKER/PLUG
- STREAM CROSSING
- USPWS STREAM CROSSING WITH ENHANCED CONTROLS
- SLEEP
- SEEP DIRECTION
- CONSTRUCTION ENTRANCE WITH DITCH
- CULVERT AS NEEDED
- CULVERT/ WATERBAR
- LOD
- BSRF
- COMPOST FILTER SOCK
- SEDIMENT BARRIER IDENTIFICATION
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- SOIL TYPE
- TYPICAL BIC SLOPE CATEGORY
- SLOPE INCLINATION

**NOTES:**

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- BELTED SILT RETENTION FENCE AND COMPOST FILTER SOCK SHALL BE INSTALLED PARALLEL TO CONTOUR TO EXTENT PRACTICABLE IN ACCORDANCE WITH STANDARD DETAIL. SEDIMENT BARRIER LOCATIONS ARE SUBJECT TO CHANGE BASED ON FIELD CONDITIONS WITH APPROVAL FROM THE PROJECT ENVIRONMENTAL INSPECTOR.
- BEST IN CLASS (BIC) STEEP SLOPE CATEGORY INFORMATION CAN BE FOUND IN THE APPENDIX OF THE STORMWATER POLLUTION PREVENTION PLAN.
- EROSION CONTROL MATING SHALL BE PLACED IN AREAS OF 3% 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.A.5 FEDERAL EROSION 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	BY	CHKD.	APPD.	DESCRIPTION



42" AP-1 PIPELINE  
CONSTRUCTION ALIGNMENT STA. 13318+00 TO 13373+00  
ATLANTIC COAST PIPELINE, LLC  
C/O DOMINION TRANSMISSION, INC.  
925 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330  
DINWIDDIE COUNTY, VIRGINIA

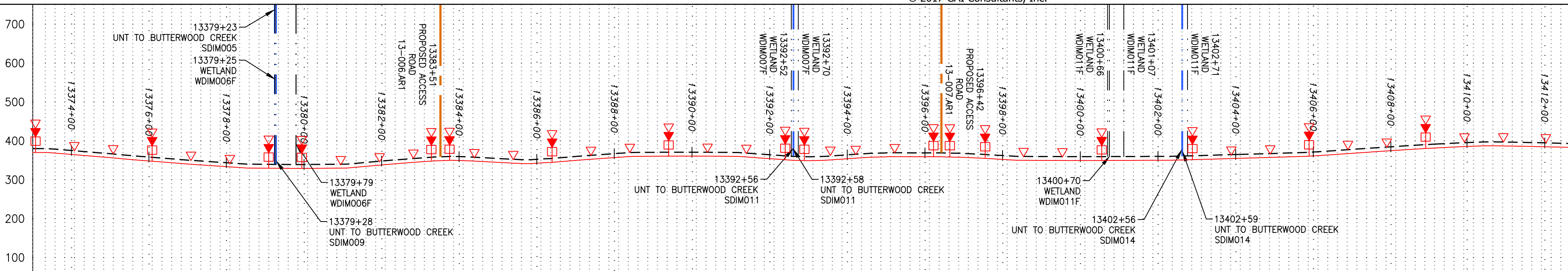
SCALE: AS SHOWN  
DATE: 11/23/2016  
DRAWN: JFS  
CHECKED: DLH  
APPROVED: NET



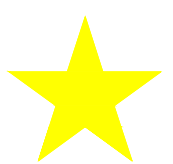
PROJECT NO./DASH NO.	C140468
TASK NO. SUB TASK NO.	005 00
GROUP ID DRAWING NO.	D E292
292 OF 344	

NOTE: STATIONING SHOWN ON THE DRAWING IS BASED ON SLOPE MEASUREMENTS.

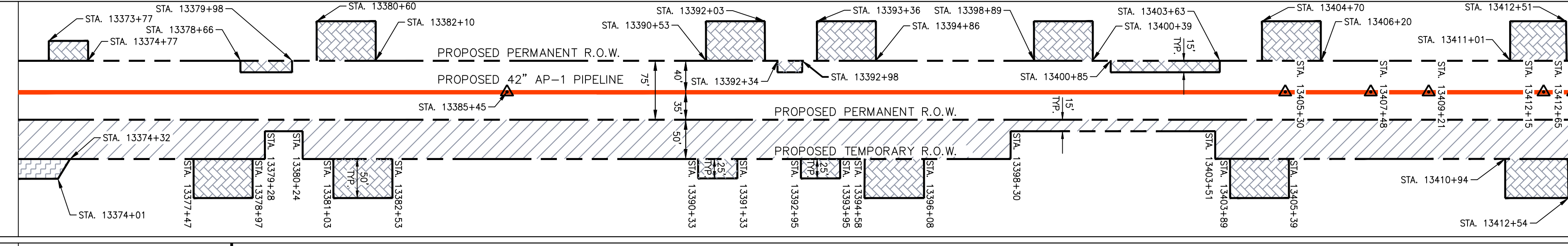
PROFILE VIEW  
HORZ: 1" = 200'  
VERT: 1" = 200'



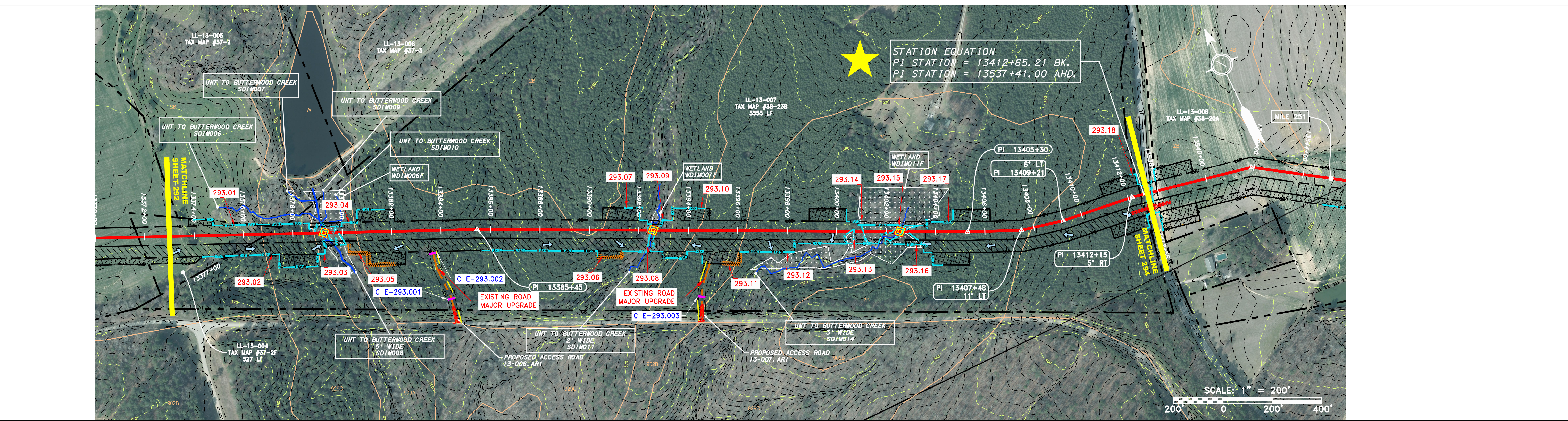
STATION EQUATION  
PI STATION = 13412+65.21 BK.  
PI STATION = 13537+41.00 AHD.



STATIONING & CONSTRUCTION LIMITS



PROPERTY OWNERSHIP

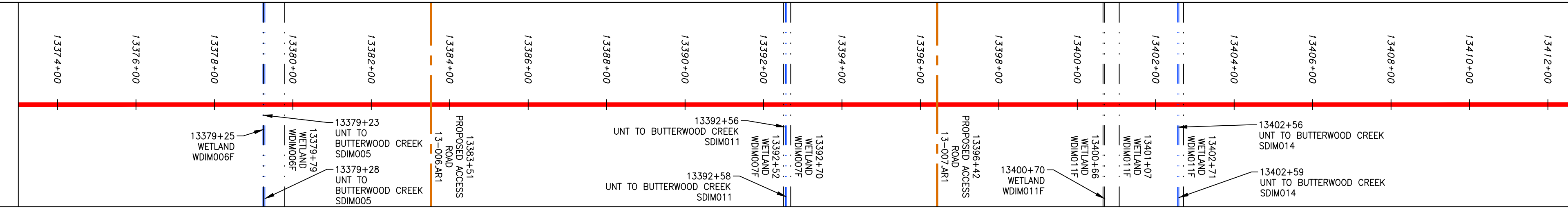


STATION EQUATION  
PI STATION = 13412+65.21 BK.  
PI STATION = 13537+41.00 AHD.



SCALE: 1" = 200'

STRING VIEW BAND



STATION EQUATION  
PI STATION = 13412+65.21 BK.  
PI STATION = 13537+41.00 AHD.



**LEGEND**

	PROPERTY LINE		STORM SEWER		EXTRA WORK SPACE		LOD		LIMIT OF DISTURBANCE
	FENCE		UNDERGROUND ELECTRIC		TOPSOIL SEGREGATION AREA		BSRF		BELTED SIL RETENTION FENCE (BSRF)
	STREAM		WATER LINE		AREA OF NO DISTURBANCE		COMPOST FILTER SOCK		CULVERT BARRIER IDENTIFICATION
	EXISTING GAS PIPELINE		SANITARY SEWER		PROPOSED TEMPORARY R.O.W.		ORANGE SAFETY FENCE		ROADSIDE DITCH
	OVERHEAD UTILITY LINES		EDGE OF GRAVEL		WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)		SOIL TYPE		SLOPE INCLINE
	ACCESS ROAD		PROPOSED PERMANENT EASEMENT		UTILITY POLE		TYPICAL BIC SLOPE CATEGORY		SLOPE INCLINE
	PROPOSED GAS PIPELINE		PROPOSED GAS PIPELINE (NO GROUND SURVEY)	NOTE: THE PE SEAL AND SIGNATURE APPLIES ONLY TO THE E&S CONTROL DESIGN COMPLETED BY ERM (SEE NOTE 12).					

**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.
- STREAM AND WETLAND DATA SHOWN ON THE DRAWINGS WAS PROVIDED BY ERM.
- ACCURACY OF THE RECORDS AS SHOWN ON THESE DRAWINGS.
- ALL STATIONING SHOWN IS SLOPE STATIONING.
- EROSION AND SEDIMENTATION CONTROL ELEMENTS MAY BE SHOWN OUTSIDE OF THE WORK AREAS FOR CLARITY ONLY. ACTUAL INSTALLATION SHALL BE WITHIN THE WORK AREAS.
- BELTED SIL RETENTION FENCE AND COMPOST FILTER SOCK SHALL BE INSTALLED PARALLEL TO CONTOUR TO EXTENT PRACTICABLE IN ACCORDANCE WITH STANDARD DETAIL. SEDIMENT BARRIER LOCATIONS ARE SUBJECT TO CHANGE BASED ON FIELD CONDITIONS WITH APPROVAL FROM THE PROJECT ENVIRONMENTAL INSPECTOR.
- BEST IN CLASS (BIC) STEEP SLOPE CATEGORY INFORMATION CAN BE FOUND IN THE APPENDIX OF THE STORMWATER POLLUTION PREVENTION PLAN.
- EROSION CONTROL MATING SHALL BE PLACED IN AREAS OF 30% SLOPE AND GREATER, WHICH ARE INDICATED ON THE BEST IN CLASS STEEP SLOPES 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 2 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.A.S FEDERAL ENERGY REGULATORY COMMISSION (FERC) UPLAND EROSION CONTROL, REVEGETATION, AND MAINTENANCE PLAN, SECTION V.A.S. 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	BY	CHKD.	APPD.	DESCRIPTION

REVISIONS

**ERM**

42" AP-1 PIPELINE  
CONSTRUCTION ALIGNMENT STA. 13373+00 TO 13412+65  
DINWIDDIE COUNTY, VIRGINIA

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

SCALE: AS SHOWN
DATE: 11/23/2016
DRAWN: JFS
CHECKED: DLH
APPROVED: NET

**gai consultants**

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

PROJECT NO./DASH NO. <b>C140468</b>
TASK NO. SUB TASK NO. <b>005 00</b>
GROUP ID DRAWING NO. <b>D E293</b>
<b>293 OF 344</b>

6/5/2017 9:48 a.m.