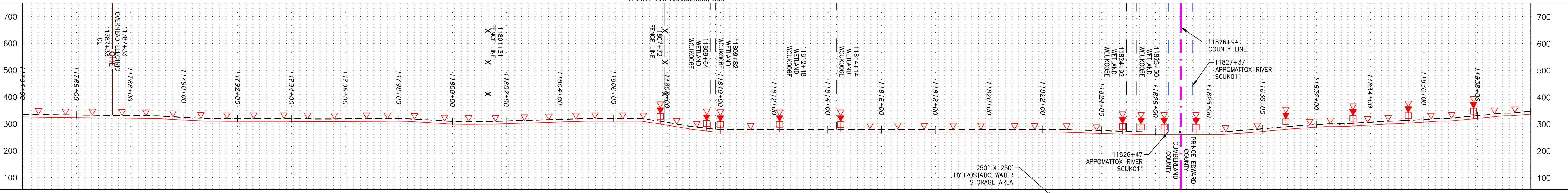
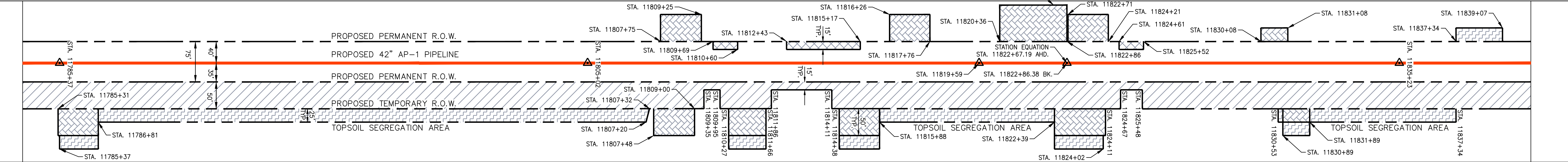


NOTE: STATIONING SHOWN ON THE DRAWING IS BASED ON SLOPE MEASUREMENTS.

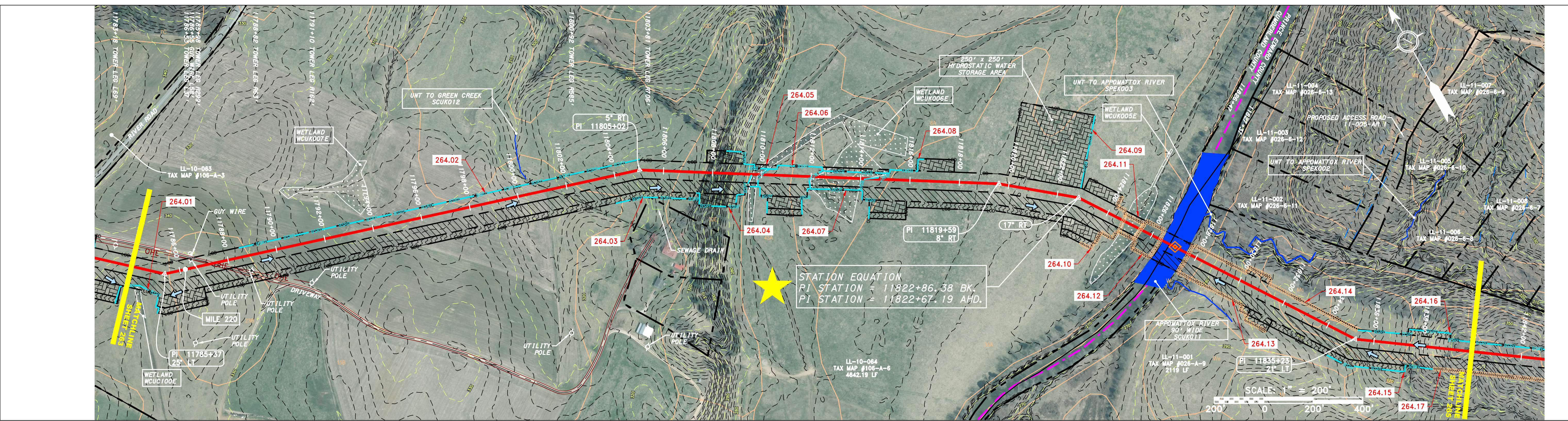
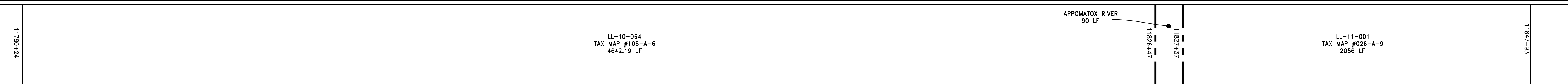
PROFILE VIEW  
 HORZ: 1" = 200'  
 VERT: 1" = 200'



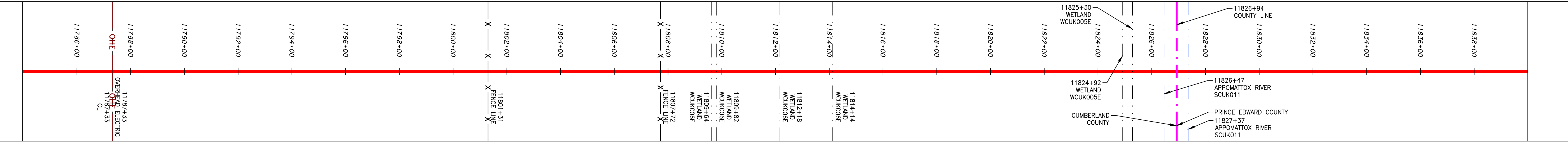
STATIONING & CONSTRUCTION LIMITS



PROPERTY OWNERSHIP



STRING VIEW BAND



LEGEND

- PROPERTY LINE
- 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
- USFWS STREAM CROSSING WITH ENHANCED CONTROLS
- SLEEP
- SLOPE DIRECTION
- CONSTRUCTION ENTRANCE WITH DITCH
- CONSTRUCTION AS NEEDED
- CULVERT/ WATERBAR
- LOD
- 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 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.
  - 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.
  - BARRIERS 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 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 FEATURES AND 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 4.5 FEDERAL EROSION REGULATORY COMMISSION (FERC) UPLAND EROSION CONTROL, REVEGETATION, AND MAINTENANCE PLAN, SECTION 4.5.1. 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	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

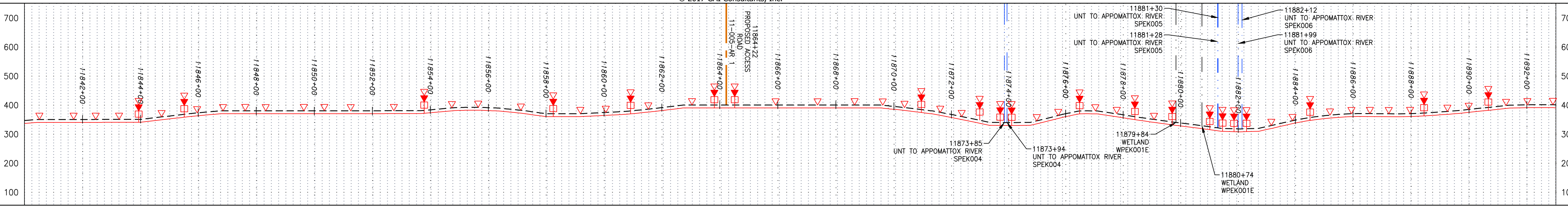
gai consultants

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

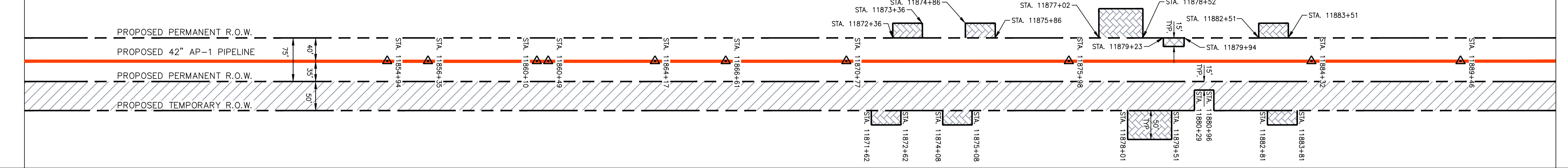
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TASK NO./SUB TASK NO.	005 / 00
GROUP ID / DRAWING NO.	D / E264
264 OF 344	6/1/2017 4:39 PM

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

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



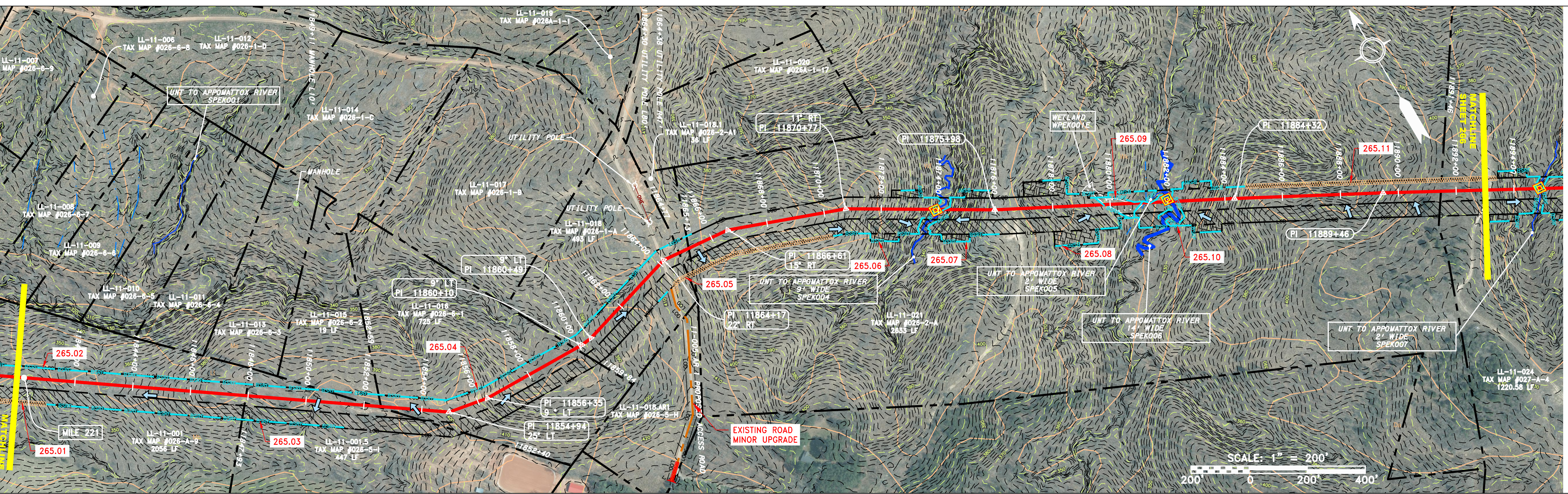
STATIONING & CONSTRUCTION LIMITS



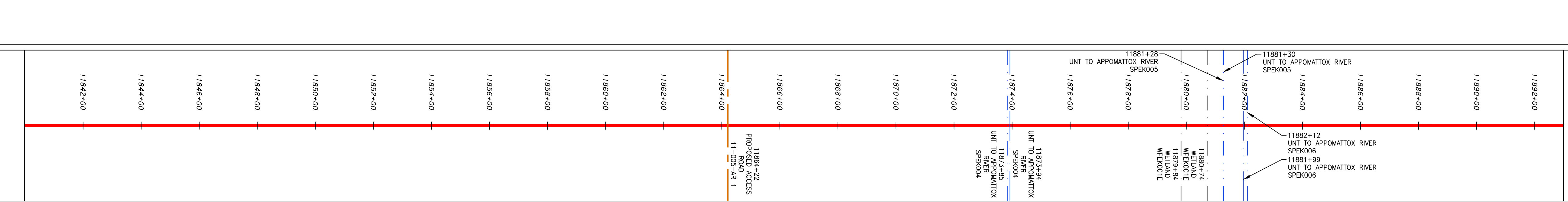
PROPERTY OWNERSHIP

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LEGEND



STRING VIEW BAND



LEGEND

Legend detailing symbols for Property Line, Storm Sewer, Underground Electric, Water Line, Sanitary Sewer, Edge of Gravel, Proposed Permanent Easement, Proposed Gas Pipeline, Extra Work Space, Topsoil Segregation Area, Area of No Disturbance, Proposed Temporary R.O.W., Wetland, Utility Pole, Permanent Waterbar/Slope Breaker, Trench Breaker/Plug, Stream Crossing, USFWS Stream Crossing, Slope, Slope Direction, Construction Entrance with Ditch, 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: 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. IMAGERY TAKEN FROM GOOGLE EARTH. 4. 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. 5. STREAM AND WETLAND DATA SHOWN ON THE DRAWINGS WAS PROVIDED BY ERM. 6. EROSION AND SEDIMENTATION CONTROL ELEMENTS MAY BE SHOWN OUTSIDE OF THE WORK AREAS FOR CLARITY ONLY. ACTUAL INSTALLATION SHALL BE WITHIN THE WORK AREA. 7. BELTED SILT RETENTION FENCE AND COMPOST FILTER SOCK SHALL BE INSTALLED PARALLEL TO CONTOUR TO EXTENT PRACTICABLE IN ACCORDANCE WITH STANDARD DETAIL. SEDIMENT TRAP LOCATIONS ARE SUBJECT TO CHANGE BASED ON FIELD CONDITIONS WITH APPROVAL FROM THE PROJECT ENVIRONMENTAL INSPECTOR. 8. BEST IN CLASS (BIC) STEEP SLOPE CATEGORY INFORMATION CAN BE FOUND IN THE APPENDIX OF THE STORMWATER POLLUTION PREVENTION PLAN. 9. EROSION CONTROL MATING SHALL BE PLACED IN AREAS OF 30% SLOPE AND WHICH ARE INDICATED ON THE BEST IN CLASS STEEP SLOPE BAND. 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 REVISION 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.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	APP'D.	DESCRIPTION



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

PROJECT NO./DASH NO.	C140468
TASK NO./SUB TASK NO.	005 / 00
GROUP ID / DRAWING NO.	D / E265
265 OF 344	

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

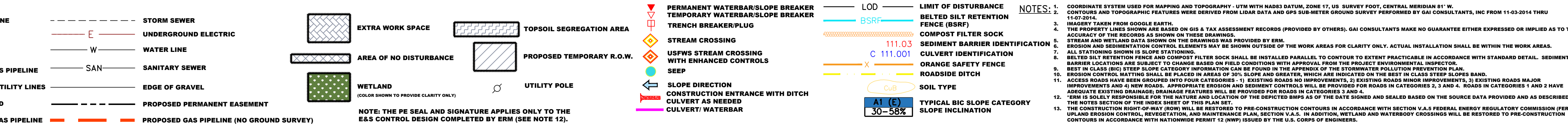
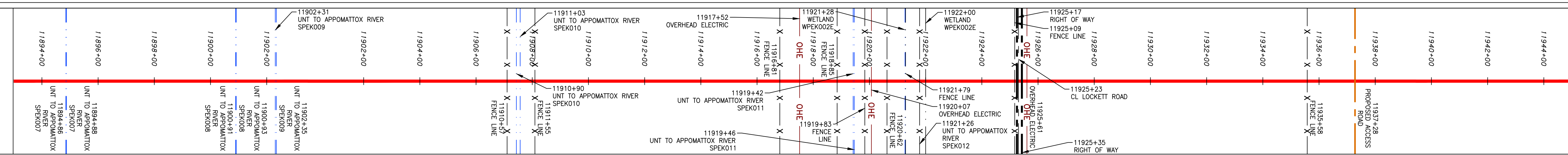
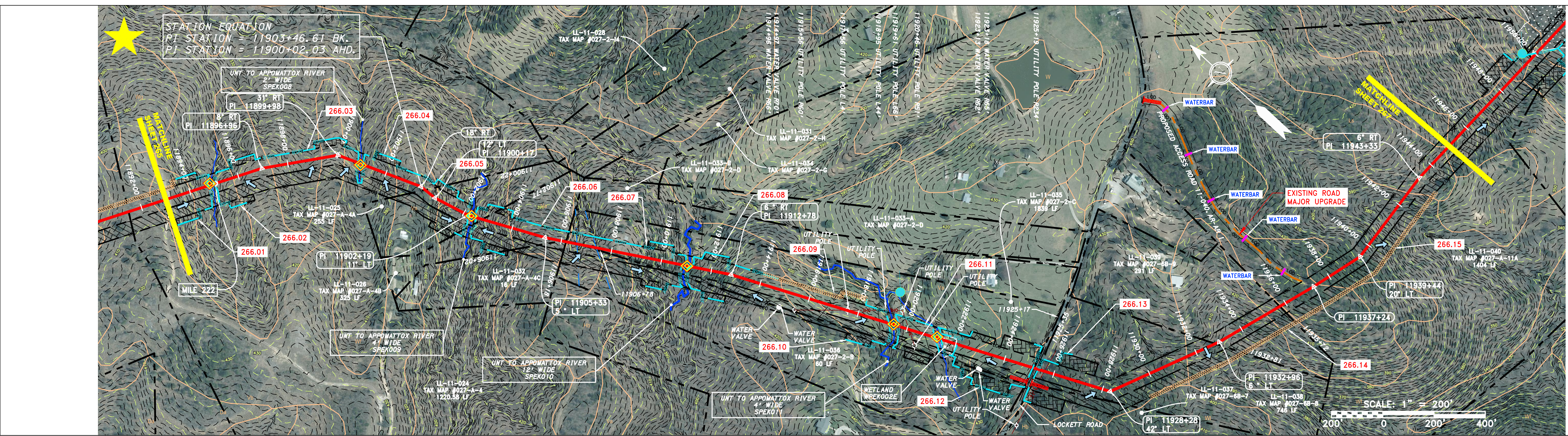
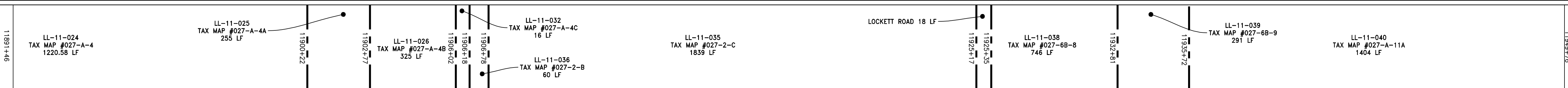
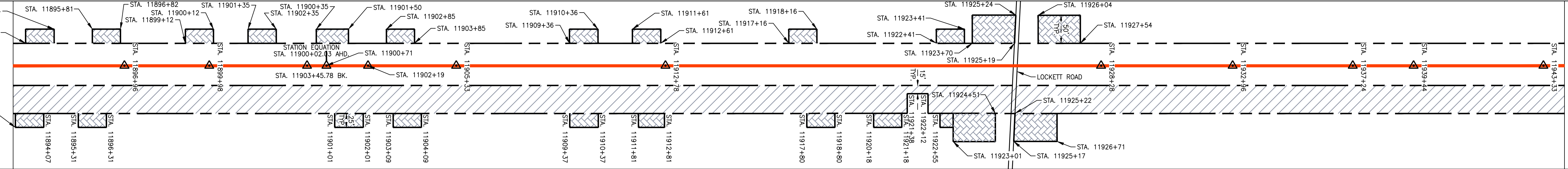
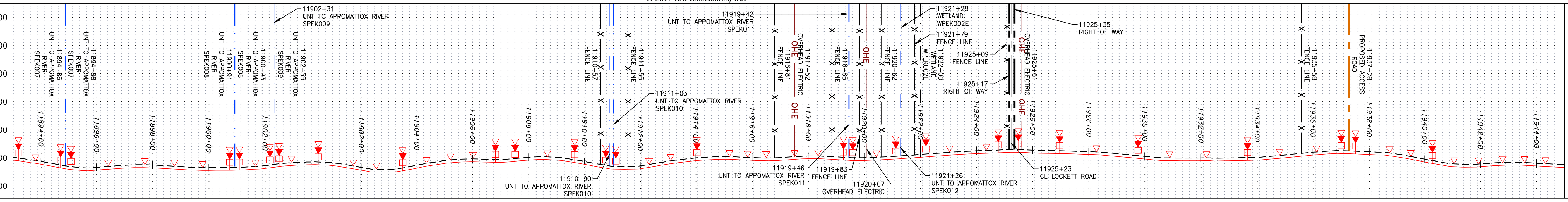
PROFILE VIEW  
HORZ: 1" = 200'  
VERT: 1" = 200'

STATIONING & CONSTRUCTION LIMITS

PROPERTY OWNERSHIP

STRING VIEW BAND

LEGEND  
PROPERTY LINE  
FENCE  
STREAM  
EXISTING GAS PIPELINE  
OVERHEAD UTILITY LINES  
ACCESS ROAD  
PROPOSED GAS PIPELINE



REVISIONS table with columns for NO., DATE, DWN., APPD., and DESCRIPTION. Includes a professional engineer seal for Daniel R. Goldstein, License No. 047436, and the ERM logo.

42" AP-1 PIPELINE  
CONSTRUCTION ALIGNMENT STA. 11893+00 TO 11945+00  
ATLANTIC COAST PIPELINE, LLC  
C/O DOMINION TRANSMISSION, INC.  
925 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330

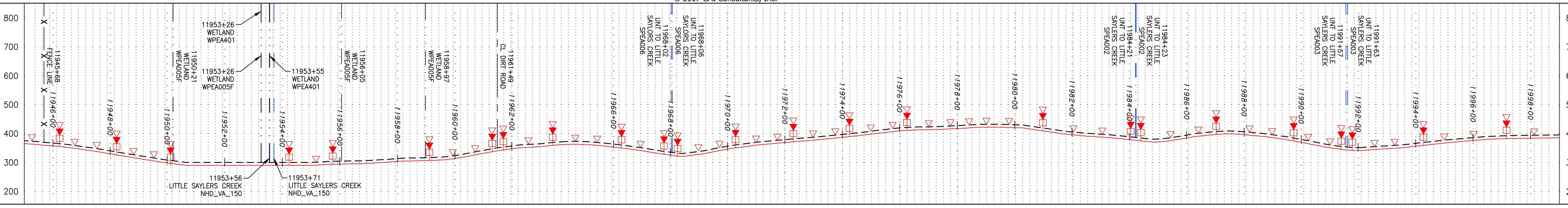
SCALE: AS SHOWN  
DATE: 11/23/2016  
DRAWN: JFS  
CHECKED: DLH  
APPROVED: NET

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

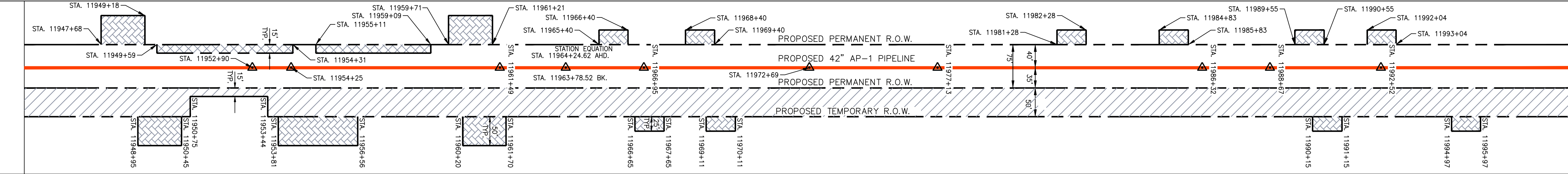
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TASK NO. 005 SUB TASK NO. 00  
GROUP ID D DRAWING NO. E266  
266 OF 344

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

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

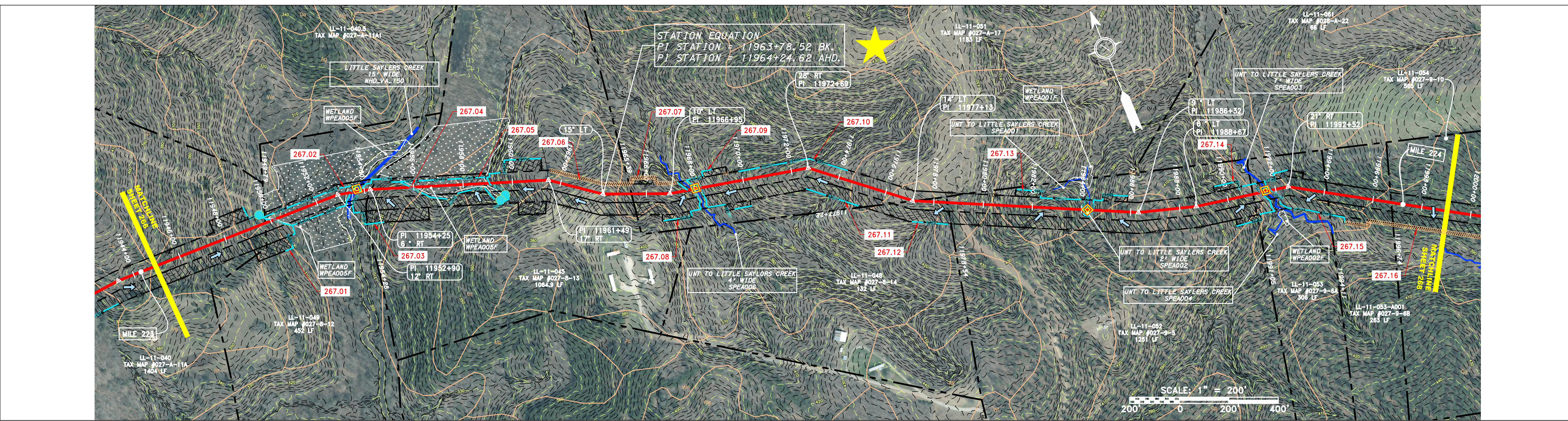


STATIONING & CONSTRUCTION LIMITS

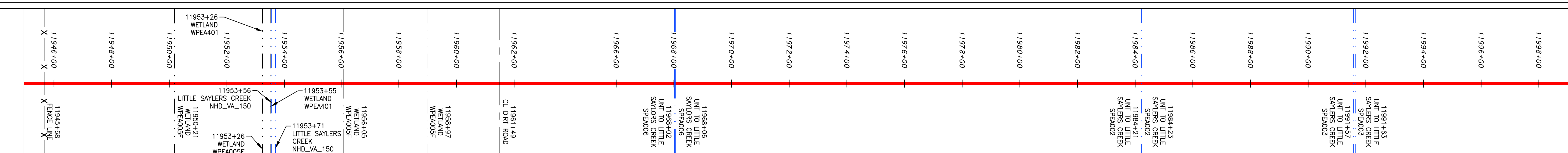


PROPERTY OWNERSHIP

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STRING VIEW BAND



**LEGEND**

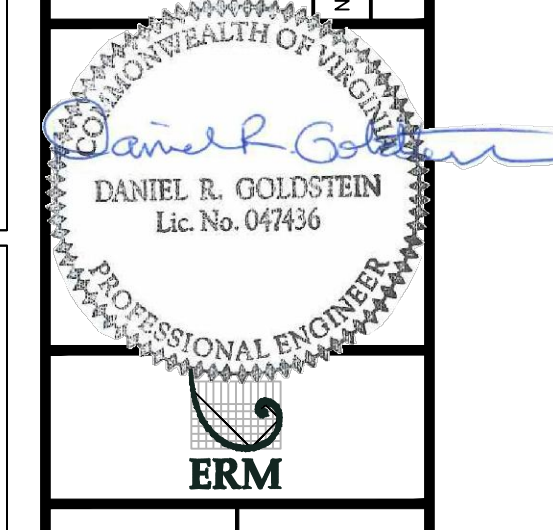
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X X	FENCE	E	UNDERGROUND ELECTRIC	—	AREA OF NO DISTURBANCE	—	PROPOSED TEMPORARY R.O.W.
—	STREAM	W	WATER LINE	—	WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)	—	UTILITY POLE
G G	EXISTING GAS PIPELINE	SAN	SANITARY SEWER	—	NOTE: THE PE SEAL AND SIGNATURE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

**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.
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- EROSION CONTROL MATING SHALL BE PLACED IN AREAS OF 30% SLOPE AND GREATER WITH AREAS INDICATED ON THE BEST IN CLASS STEEP SLOPES BAND.
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**REVISIONS**

NO.	DATE	BY	CHKD.	APPD.	DESCRIPTION



CONSTRUCTION ALIGNMENT STA. 11945+00 TO 11999+00  
 PRINCE EDWARD 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**

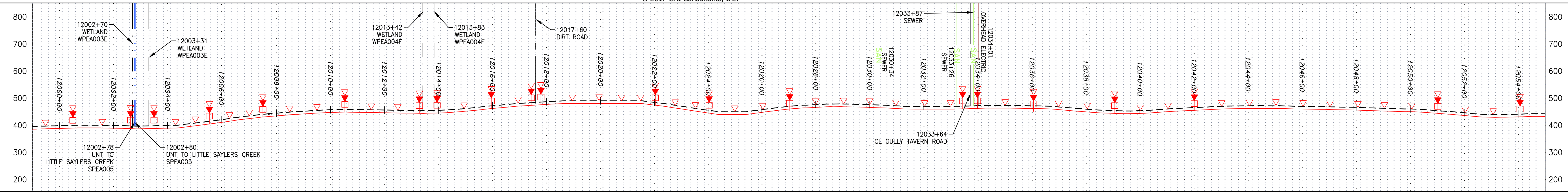
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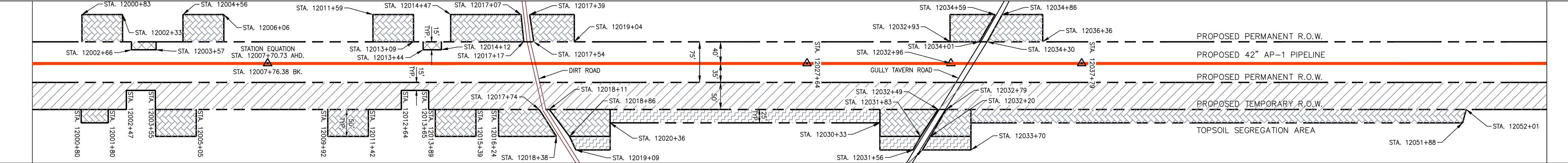
**267 OF 344**

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

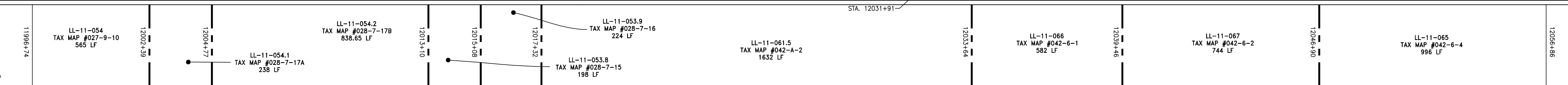
PROFILE VIEW  
 HORZ: 1" = 200'  
 VERT: 1" = 200'



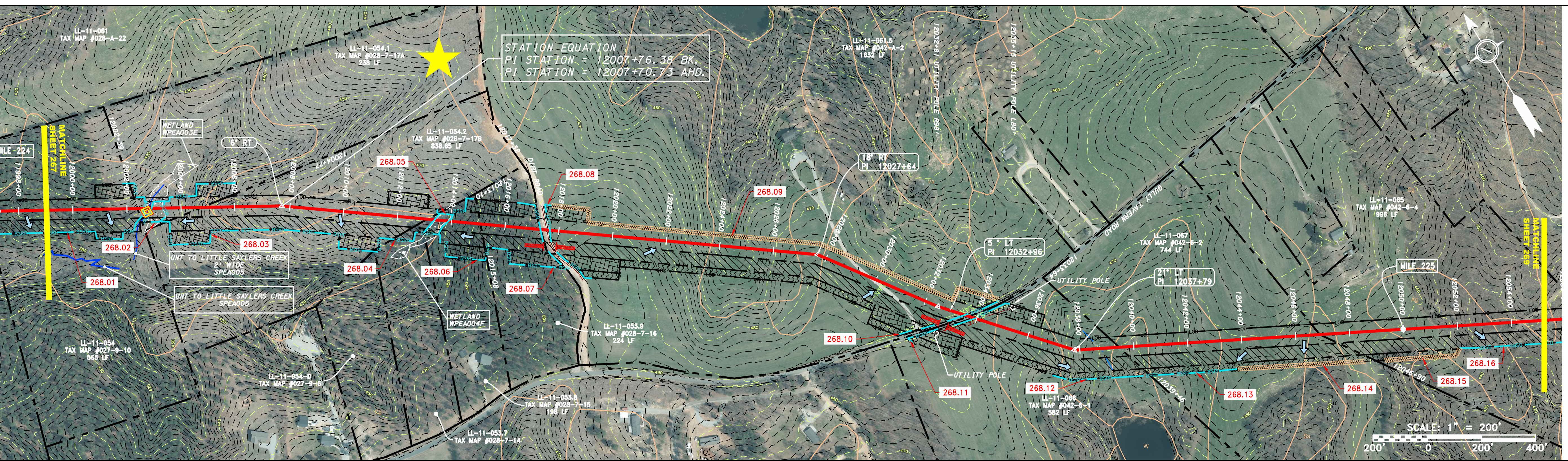
STATIONING & CONSTRUCTION LIMITS



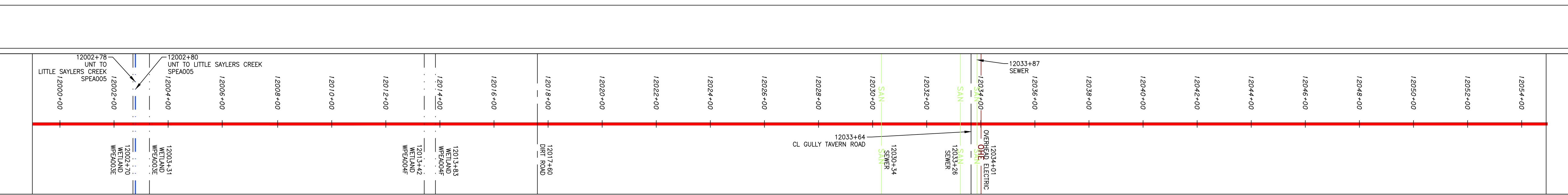
PROPERTY OWNERSHIP



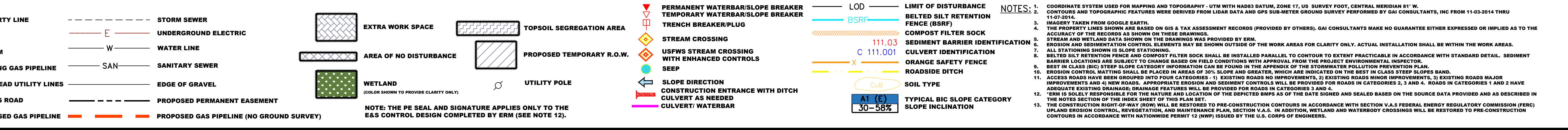
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STRING VIEW BAND



LEGEND



REVISIONS

NO.	DATE	BY	CHKD.	APPD.	DESCRIPTION

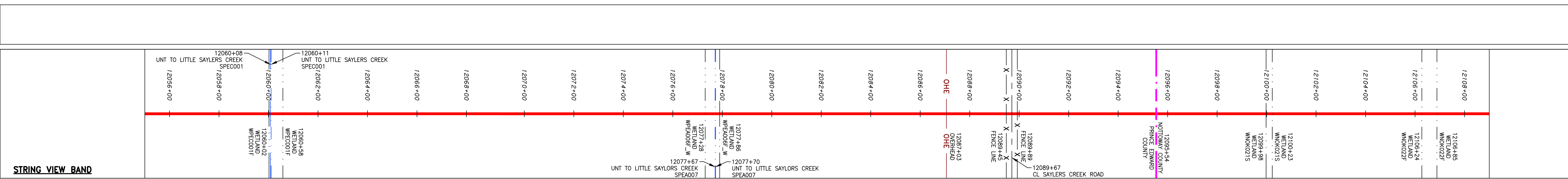
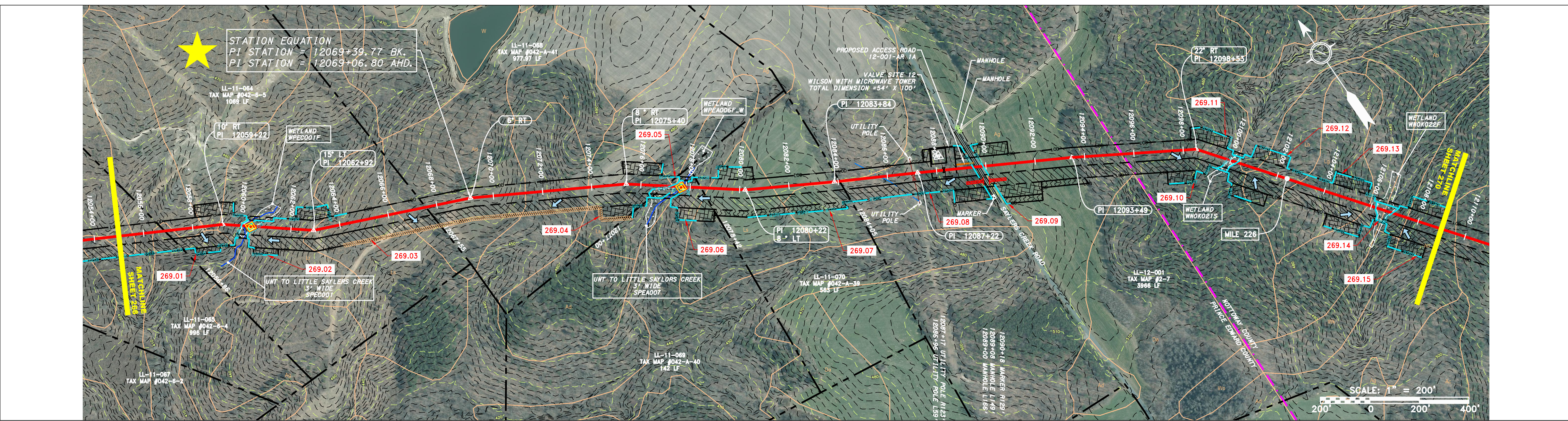
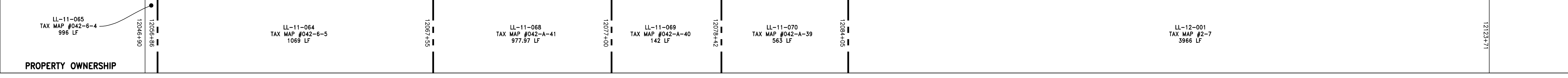
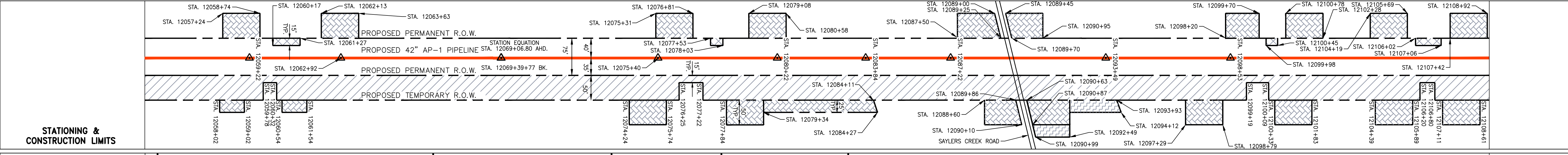
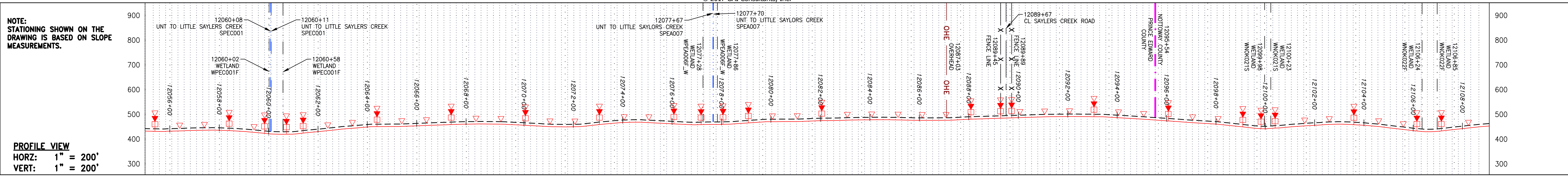
**DANIEL R. GOLDSTEIN**  
 Lic. No. 047436  
**ERM**

42" AP-1 PIPELINE  
 CONSTRUCTION ALIGNMENT STA. 11999+00 TO 12055+00  
 PRINCE EDWARD 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 DRAWING NO.  
**D E268**  
**268 OF 344**



**LEGEND**

—	PROPERTY LINE	—	STORM SEWER	▨	EXTRA WORK SPACE	▨	TOPSOIL SEGREGATION AREA	—	LIMIT OF DISTURBANCE	1.	COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY - UTM WITH NAD83 DATUM, ZONE 17, US SURVEY FOOT, CENTRAL MERIDIAN 81° W.
X X	FENCE	E	UNDERGROUND ELECTRIC	▨	AREA OF NO DISTURBANCE	▨	PROPOSED TEMPORARY R.O.W.	—	BELETED SILT RETENTION FENCE (BSRF)	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.
—	STREAM	W	WATER LINE	▨	WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)	▨	UTILITY POLE	—	COMPOST FILTER SOCK	3.	IMAGERY TAKEN FROM GOOGLE EARTH.
G G	EXISTING GAS PIPELINE	SAN	SANITARY SEWER	▨	NOTE: THE PE SEAL AND SIGNATURE APPLIES ONLY TO THE E&S CONTROL DESIGN COMPLETED BY ERM (SEE NOTE 12).	▨		—	SEDIMENT BARRIER IDENTIFICATION	4.	ACCURACY OF THE RECORDS AS SHOWN ON THESE DRAWINGS.
OH	OVERHEAD UTILITY LINES	—	EDGE OF GRAVEL	▨		▨		—	CULVERT IDENTIFICATION	5.	ALL STATIONING SHOWN IS SLOPE STATIONING.
—	ACCESS ROAD	—	PROPOSED PERMANENT EASEMENT	▨		▨		—	ORANGE SAFETY FENCE	6.	EROSION AND SEDIMENTATION CONTROL ELEMENTS MAY BE SHOWN OUTSIDE OF THE WORK AREAS FOR CLARITY ONLY. ACTUAL INSTALLATION SHALL BE WITHIN THE WORK AREAS.
—	PROPOSED GAS PIPELINE	—	PROPOSED GAS PIPELINE (NO GROUND SURVEY)	▨		▨		—	ROADSIDE DITCH	7.	BELETED 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.
				▨		▨		—	SOIL TYPE	8.	BEST IN CLASS (BIC) STEEP SLOPE CATEGORY INFORMATION CAN BE FOUND IN THE APPENDIX OF THE STORMWATER POLLUTION PREVENTION PLAN.
				▨		▨		—	TYPICAL BIC SLOPE CATEGORY SLOPE INCLINATION	9.	EROSION CONTROL: MATING SHALL BE PLACED IN AREAS OF 30% SLOPE AND GREATER, WHICH ARE INDICATED ON THE BEST IN CLASS STEEP SLOPE BAND.
				▨		▨		—		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.	THE NOTES SECTION OF THE INHERENT SHEET OF THIS PLAN SET.
				▨		▨		—		12.	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.
				▨		▨		—		13.	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.

**REVISIONS**

NO.	DATE	BY	DESCRIPTION

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

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

**42" AP-1 PIPELINE**  
 CONSTRUCTION ALIGNMENT STA. 12055+00 TO 12109+00  
 PRINCE EDWARD & NOTTOWAY COUNTIES, 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

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

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

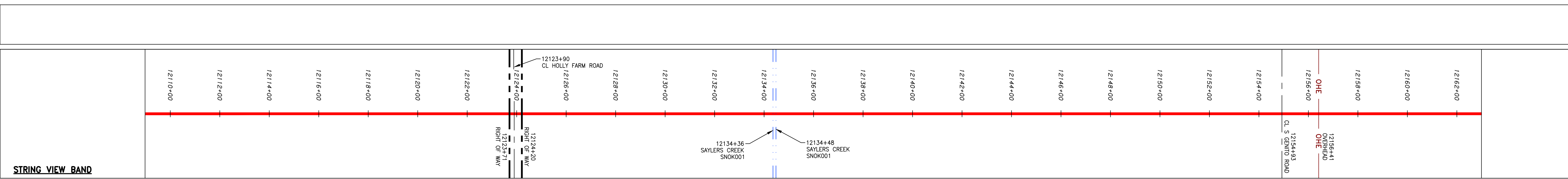
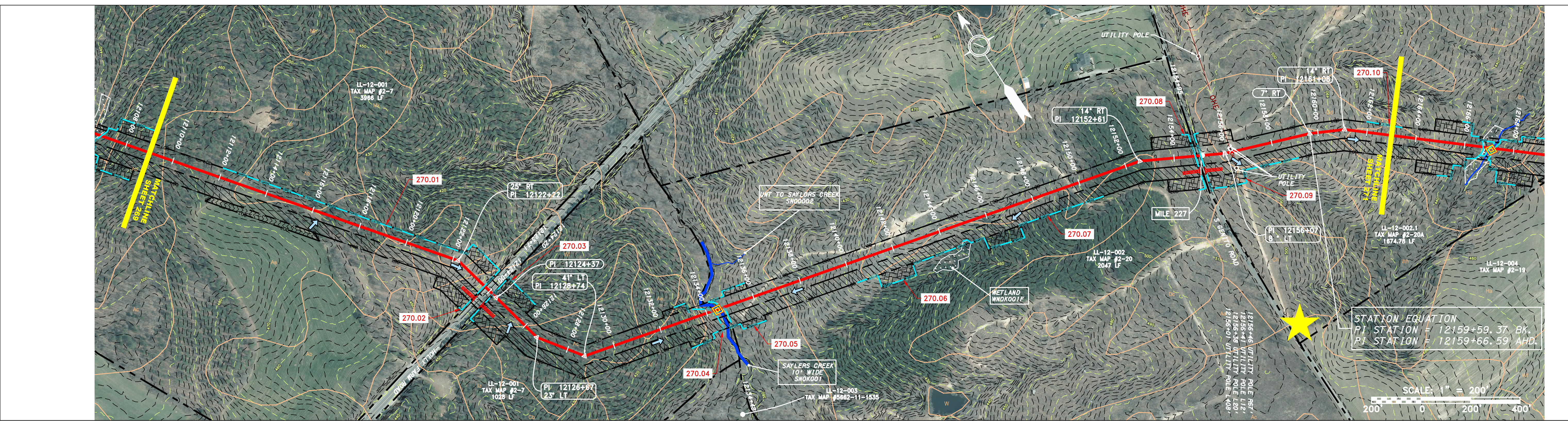
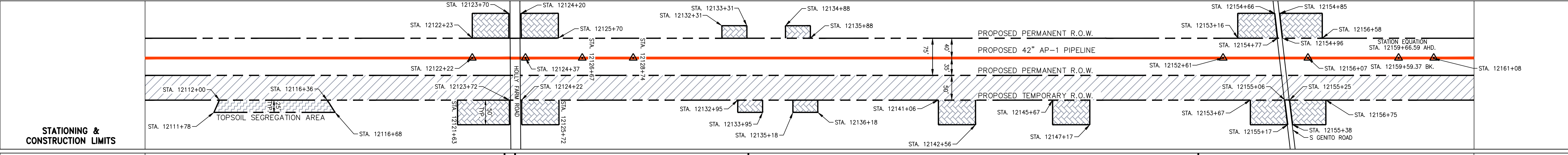
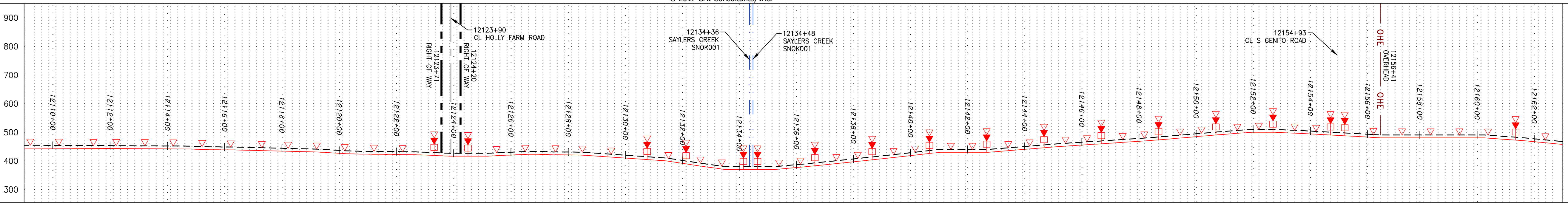
GROUP ID/DRAWING NO.  
**D / E269**

269 OF 344

GAI CAD FILE NO. I:\DOMINION\AP-1\FERC\_ESC\CADD-GIS DATA\ACP\_AP-1\_FERC\_VA\_SHT\_269.DWG

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

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



**LEGEND**

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

**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 11-27-2014.
- IMAGERY TAKEN FROM GOOGLE EARTH.
- THE PROPERTY LINES SHOWN ON THE DRAWINGS MAY BE SUBJECT TO CHANGE.
- 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.
- EROSION CONTROL MEASURES SHALL BE PLACED IN AREAS OF 30% SLOPE AND GREATER, WHICH ARE INDICATED ON THE BEST IN CLASS STEEP SLOPE BAND.
- BEST IN CLASS (BIC) STEEP SLOPE CATEGORY INFORMATION CAN BE FOUND IN THE APPENDIX OF THE STORMWATER POLLUTION PREVENTION PLAN.
- EROSION CONTROL MEASURES 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 INHERITANCE 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	DESCRIPTION

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

PROJECT NO./DASH NO.  
**C140468**  
 TASK NO. SUB TASK NO.  
**005 00**  
 GROUP ID DRAWING NO.  
**D E270**  
 270 OF 344

42" AP-1 PIPELINE  
 CONSTRUCTION ALIGNMENT STA. 12109+00 TO 12163+00  
 NOTOWAY COUNTY, VIRGINIA  
**ATLANTIC COAST PIPELINE, LLC**  
 C/O DOMINION TRANSMISSION, INC.  
 925 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330

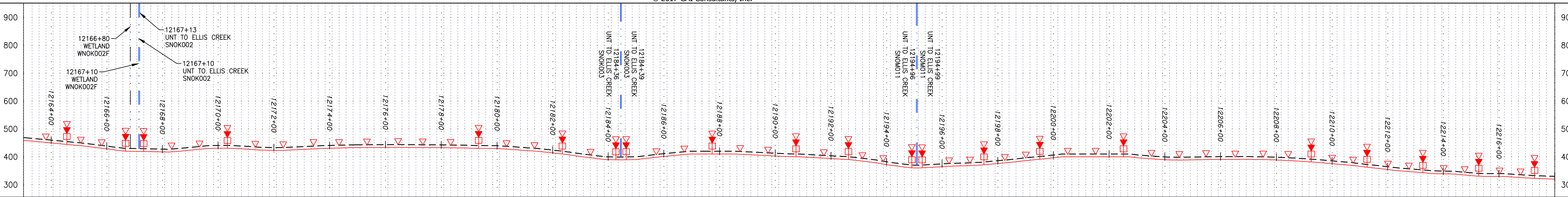
SCALE: AS SHOWN  
 DATE: 11/23/2016  
 DRAWN: JFS  
 CHECKED: DLH  
 APPROVED: NET

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

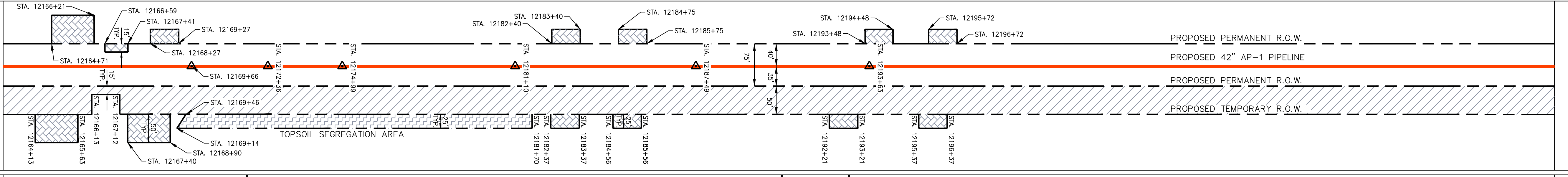
PROJECT NO./DASH NO.  
**C140468**  
 TASK NO. SUB TASK NO.  
**005 00**  
 GROUP ID DRAWING NO.  
**D E270**  
 270 OF 344

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

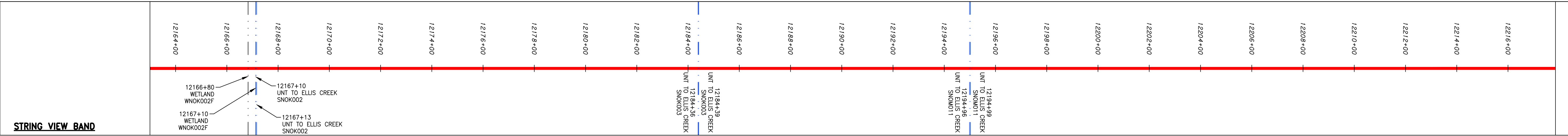
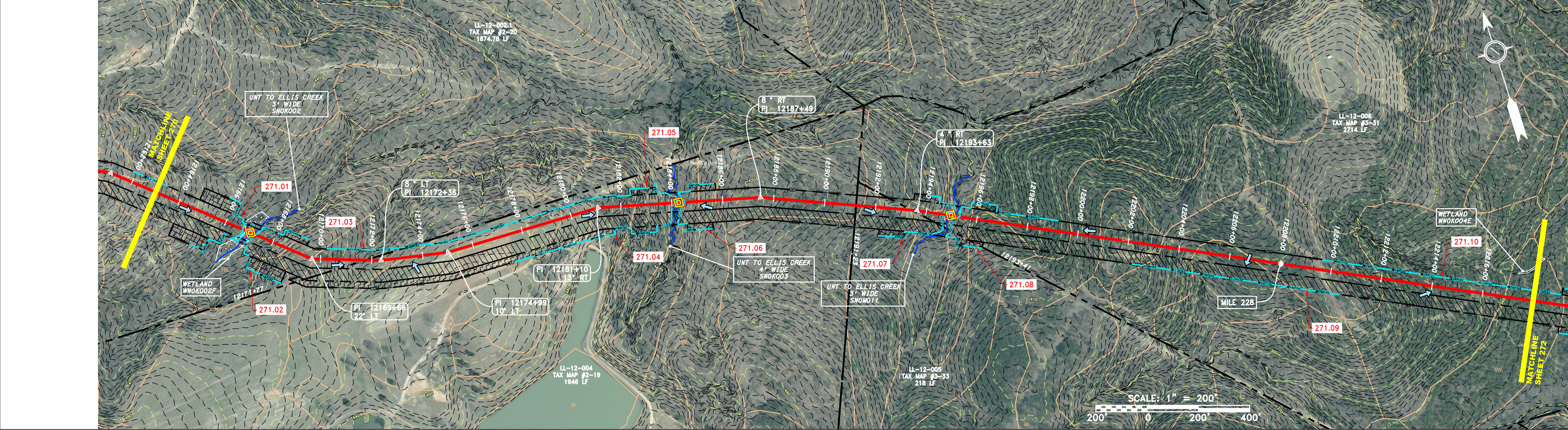
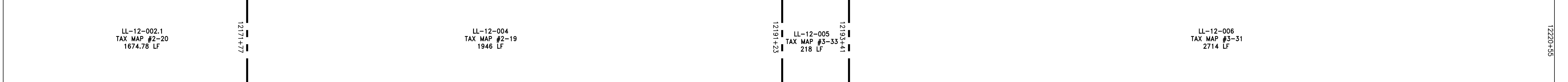
PROFILE VIEW  
 HORZ: 1" = 200'  
 VERT: 1" = 200'



STATIONING & CONSTRUCTION LIMITS



PROPERTY OWNERSHIP



**LEGEND**

— X — X —	PROPERTY LINE	— E —	STORM SEWER	[Hatched Box]	EXTRA WORK SPACE	[Red Triangle]	PERMANENT WATERBAR/SLOPE BREAKER	[Blue Line]	LOD	[Blue Line]	LIMIT OF DISTURBANCE
— X — X —	FENCE	— W —	UNDERGROUND ELECTRIC	[Hatched Box]	TOPSOIL SEGREGATION AREA	[Orange Diamond]	TEMPORARY WATERBAR/SLOPE BREAKER	[Blue Line]	BSRF	[Blue Line]	BELTED SILT RETENTION FENCE (BSRF)
— G — G —	STREAM	— SAN —	WATER LINE	[Hatched Box]	PROPOSED TEMPORARY R.O.W.	[Yellow Diamond]	TRENCH BREAKER/PLUG	[Blue Line]	111.03	[Blue Line]	COMPOST FILTER SOCK
— G — G —	EXISTING GAS PIPELINE	— SAN —	SANITARY SEWER	[Hatched Box]	UTILITY POLE	[Green Diamond]	USPWS STREAM CROSSING WITH ENHANCED CONTROLS	[Blue Line]	C 111.001	[Blue Line]	SEDIMENT BARRIER IDENTIFICATION
— OH —	OVERHEAD UTILITY LINES	— SAN —	EDGE OF GRAVEL	[Green Box]	WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)	[Blue Triangle]	SEEP	[Blue Line]	X	[Blue Line]	ORANGE SAFETY FENCE
— A —	ACCESS ROAD	— SAN —	PROPOSED PERMANENT EASEMENT	[Green Box]	NOTE: THE PE SEAL AND SIGNATURE APPLIES ONLY TO THE E&S CONTROL DESIGN COMPLETED BY ERM (SEE NOTE 12).	[Blue Triangle]	SLOPE DIRECTION	[Blue Line]	X	[Blue Line]	ROADSIDE DITCH
— G —	PROPOSED GAS PIPELINE	— SAN —	PROPOSED GAS PIPELINE (NO GROUND SURVEY)	[Green Box]		[Blue Triangle]	CONSTRUCTION ENTRANCE WITH DITCH	[Blue Line]	X	[Blue Line]	SOIL TYPE
						[Blue Triangle]	CULVERT/WATERBAR	[Blue Line]	X	[Blue Line]	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.
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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 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.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	BY	CHKD.	APPD.	DESCRIPTION

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

PROJECT NO./DASH NO.  
**C140468**  
 TASK NO. SUB TASK NO.  
**005 00**  
 GROUP ID DRAWING NO.  
**D E271**  
 271 OF 344

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

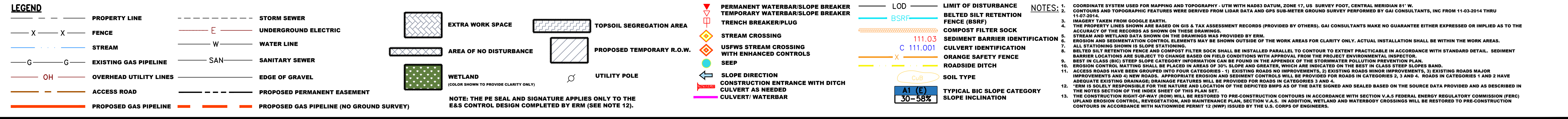
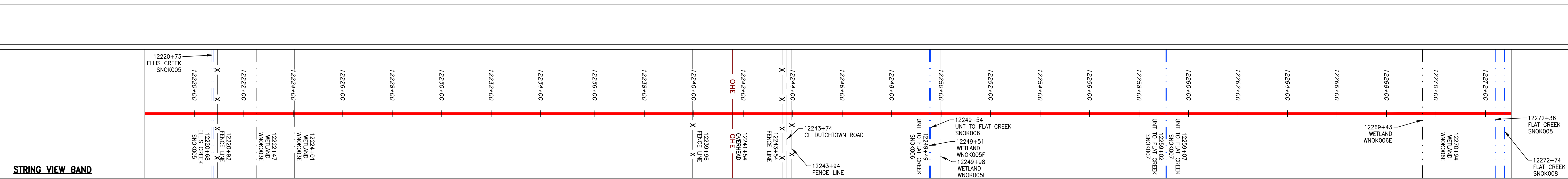
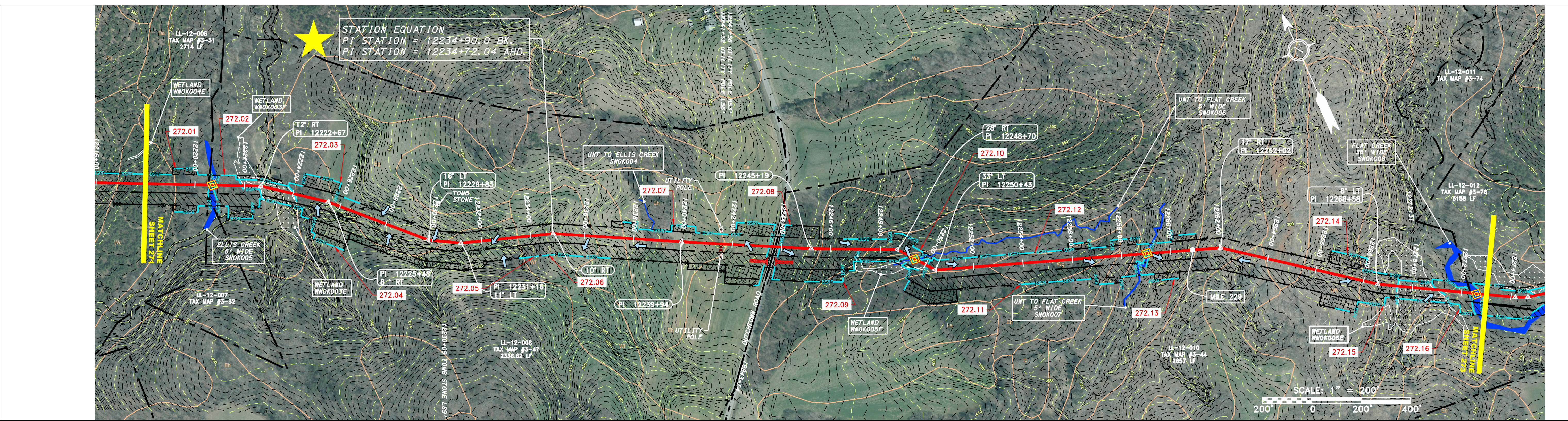
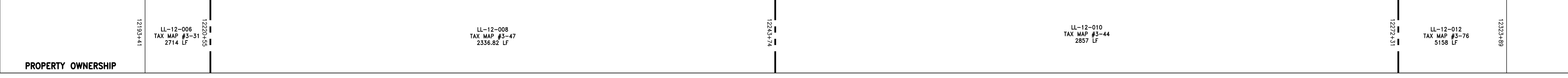
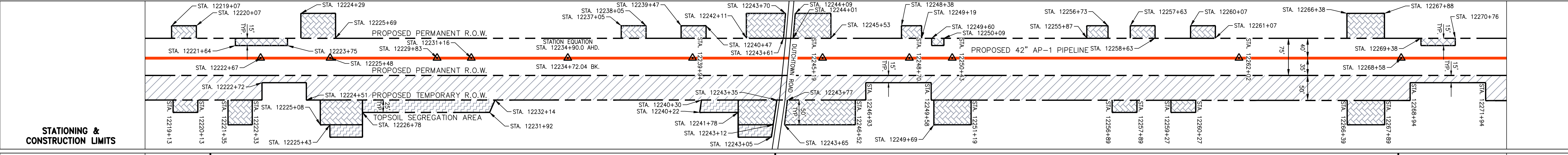
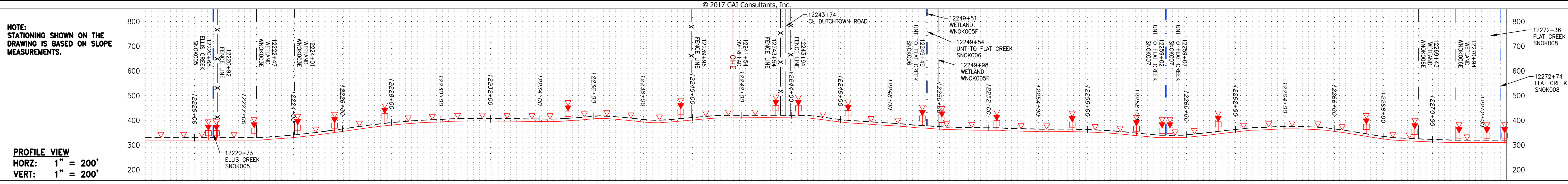
ATLANTIC COAST PIPELINE, LLC  
 C/O DOMINION TRANSMISSION, INC.  
 925 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330  
 NOTTOWAY COUNTY, VIRGINIA

42" AP-1 PIPELINE  
 CONSTRUCTION ALIGNMENT STA. 12163+00 TO 12218+00

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 E271
271 OF 344	





NO.	DATE	BY	CHKD.	APPD.	DESCRIPTION

**REVISIONS**

**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

**CONSTRUCTION ALIGNMENT STA. 12218+00 TO 12273+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

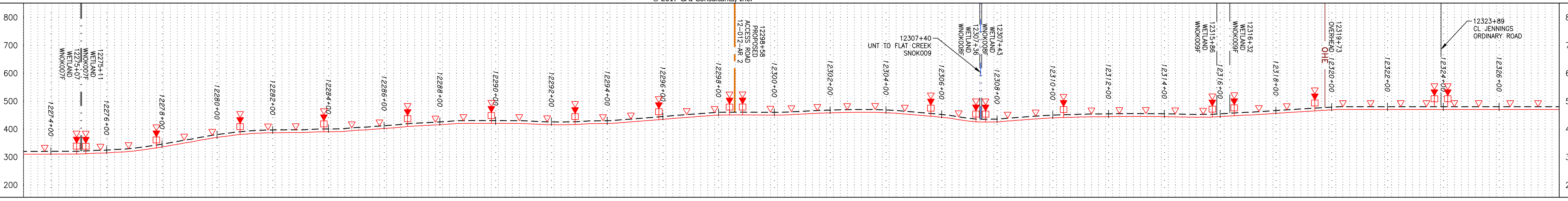
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TASK NO./SUB TASK NO.	005 / 00
GROUP ID	D
DRAWING NO.	E272
272 OF 344	

6/1/2017 10:15 a.m.

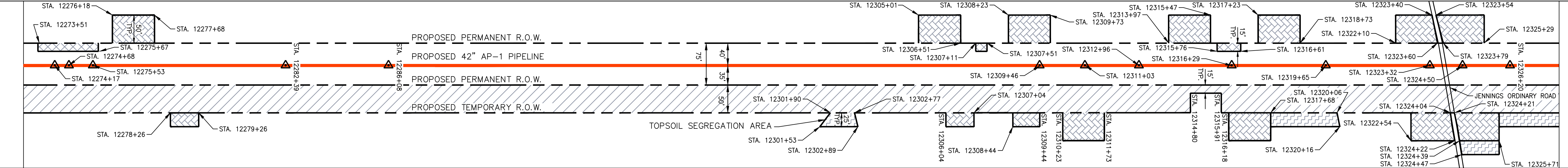
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NOTE: STATIONING SHOWN ON THE DRAWING IS BASED ON SLOPE MEASUREMENTS.

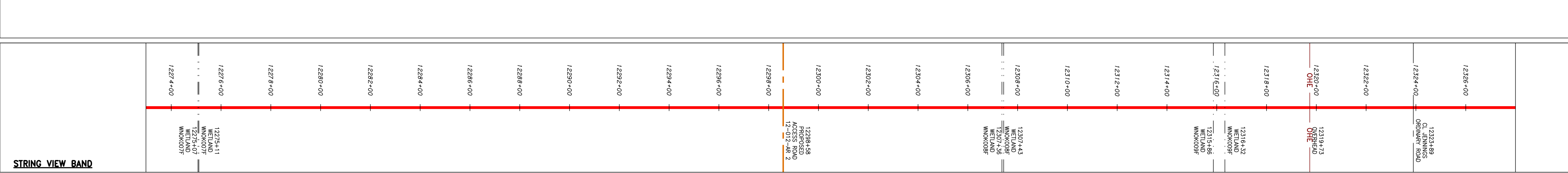
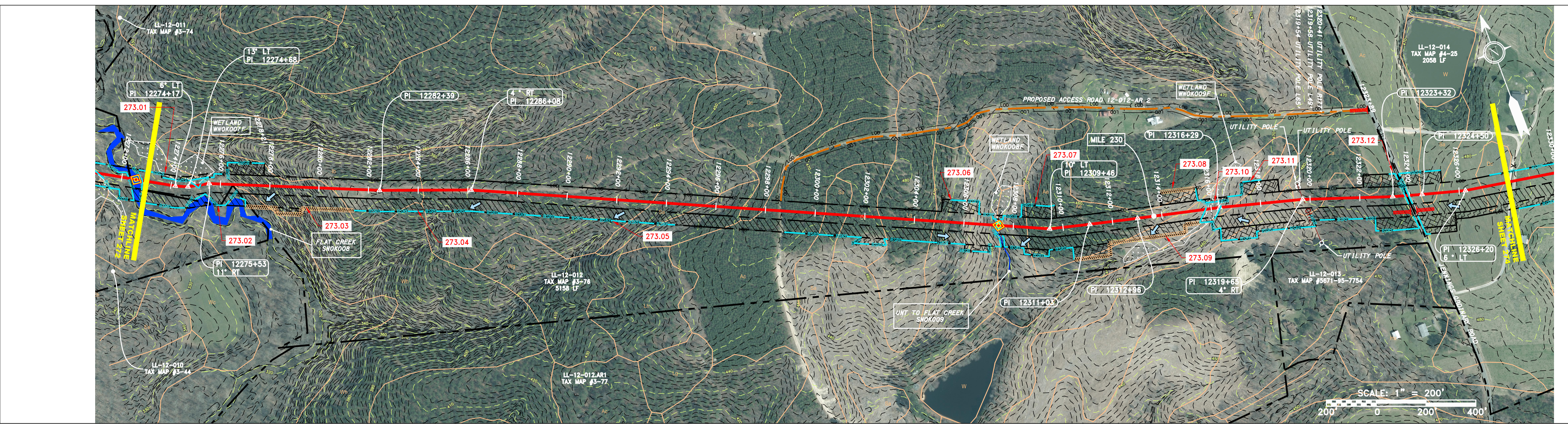
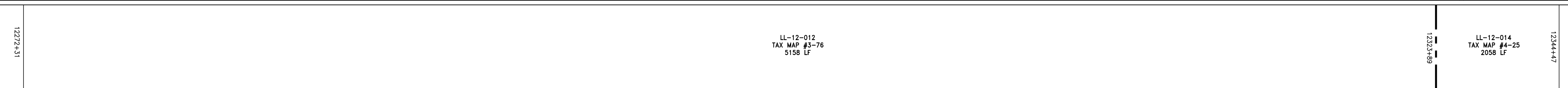
PROFILE VIEW  
HORZ: 1" = 200'  
VERT: 1" = 200'



STATIONING & CONSTRUCTION LIMITS



PROPERTY OWNERSHIP



**LEGEND**

—	PROPERTY LINE	—	STORM SEWER		EXTRA WORK SPACE		LOD		LIMIT OF DISTURBANCE	<b>NOTES:</b> 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. IMAGERY TAKEN FROM GOOGLE EARTH. 4. 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. 5. ALL STATIONING SHOWN IS SLOPE STATIONING. 6. EROSION AND SEDIMENTATION CONTROL ELEMENTS MAY BE SHOWN OUTSIDE OF THE WORK AREAS FOR CLARITY ONLY. ACTUAL INSTALLATION SHALL BE WITHIN THE WORK AREAS. 7. 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. 8. BEST IN CLASS (BIC) STEEP SLOPE CATEGORY INFORMATION CAN BE FOUND IN THE APPENDIX OF THE STORMWATER POLLUTION PREVENTION PLAN. 9. EROSION CONTROL MATING SHALL BE PLACED IN AREAS OF 3% SLOPE AND GREATER, WHICH ARE INDICATED ON THE BEST IN CLASS STEEP SLOPE BAND. 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.
-X-X-	FENCE	—E—	UNDERGROUND ELECTRIC		TOPSOIL SEGREGATION AREA	—	BSRF		BELTED SILT RETENTION FENCE (BSRF)	
—	STREAM	—W—	WATER LINE		PROPOSED TEMPORARY R.O.W.		111.03		COMPOST FILTER SOCK	
-G-G-	EXISTING GAS PIPELINE	—S—	SANITARY SEWER		AREA OF NO DISTURBANCE		C 111.001		SEDIMENT BARRIER IDENTIFICATION	
—OH—	OVERHEAD UTILITY LINES	—	EDGE OF GRAVEL		WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)		X		ORANGE SAFETY FENCE	
—	ACCESS ROAD	—	PROPOSED PERMANENT EASEMENT		UTILITY POLE		Cub		ROADSIDE DITCH	
—	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).		A1 (E) 30-58%		SOIL TYPE	
	PERMANENT WATERBAR/SLOPE BREAKER		PROPOSED PERMANENT R.O.W.						TYPICAL BIC SLOPE CATEGORY SLOPE INCLINATION	
	TEMPORARY WATERBAR/SLOPE BREAKER									
	TRENCH BREAKER/PLUG									
	STREAM CROSSING									
	USFWS STREAM CROSSING WITH ENHANCED CONTROLS									
	SLEEP									
	SLOPE DIRECTION									
	CONSTRUCTION ENTRANCE WITH DITCH CULVERT AS NEEDED									
	CULVERT/WATERBAR									

NO.	DATE	BY	CHKD.	APPD.	DESCRIPTION

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

CONSTRUCTION ALIGNMENT STA. 12273+00 TO 12328+00  
 ATLANTIC COAST PIPELINE, LLC  
 C/O DOMINION TRANSMISSION, INC.  
 925 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330  
 NOTOWAY COUNTY, VIRGINIA

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 DRAWING NO.	D E273
273 OF 344	