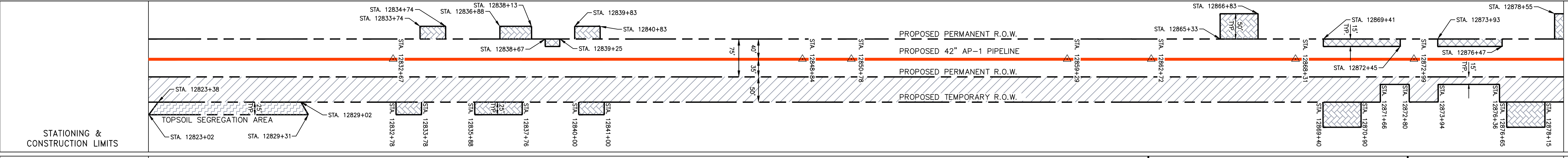
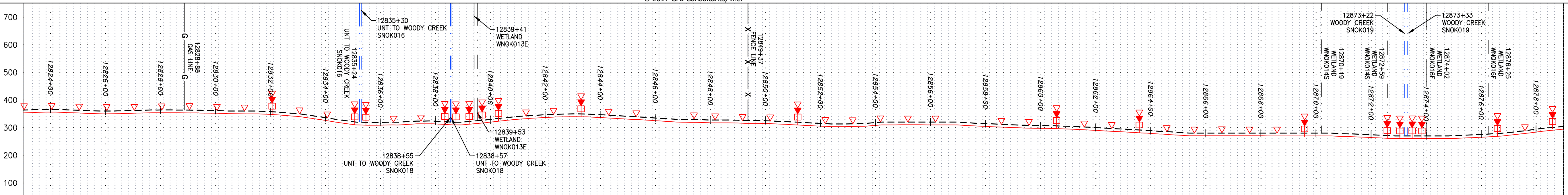
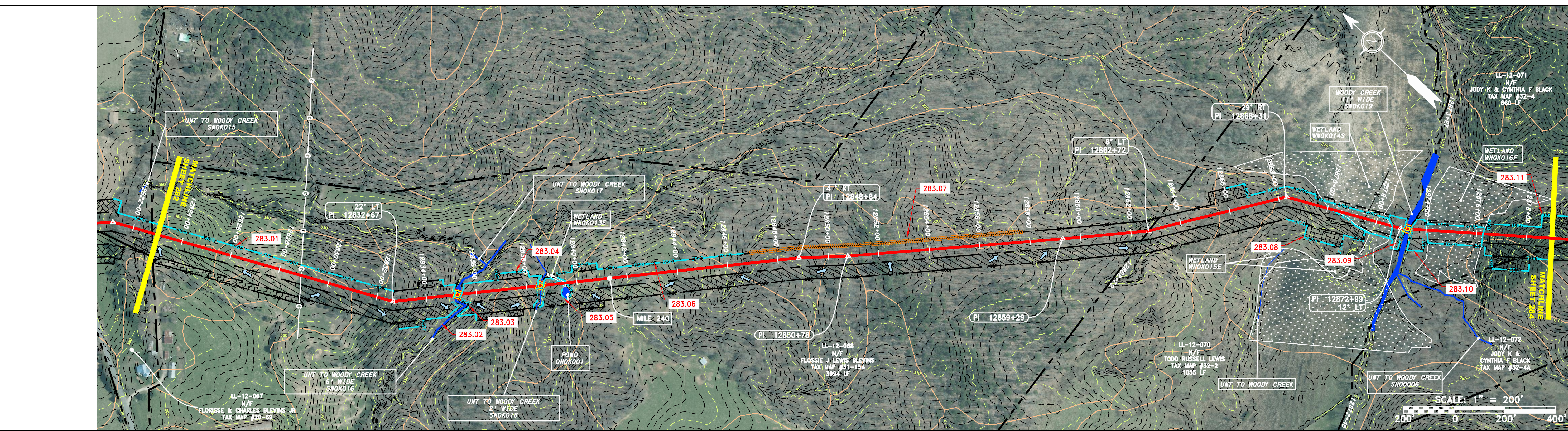


NOTE: STATIONING SHOWN ON THE DRAWING IS BASED ON SLOPE MEASUREMENTS.

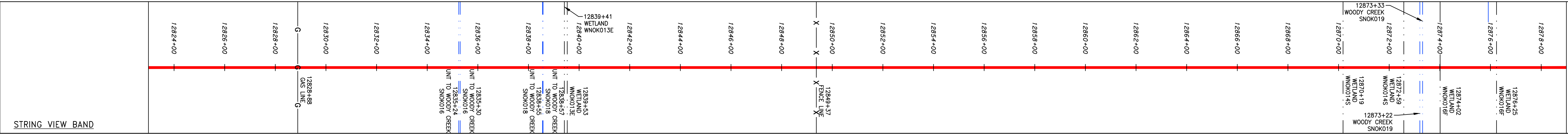
PROFILE VIEW  
 HORZ: 1" = 200'  
 VERT: 1" = 200'



PROPERTY OWNERSHIP	ADDRESS	AREA
LL-12-068 N/T FLOSSIE J LEWIS BLEVINS TAX MAP #31-154 3994 LF	12823+78	12862+72
LL-12-070 N/T TODD RUSSELL LEWIS TAX MAP #32-2 1055 LF	12862+72	12873+27
LL-12-071 N/T JODY K & CYNTHIA F BLACK TAX MAP #32-4 660 LF	12873+27	12892+03



PIPE SPECIFICATION



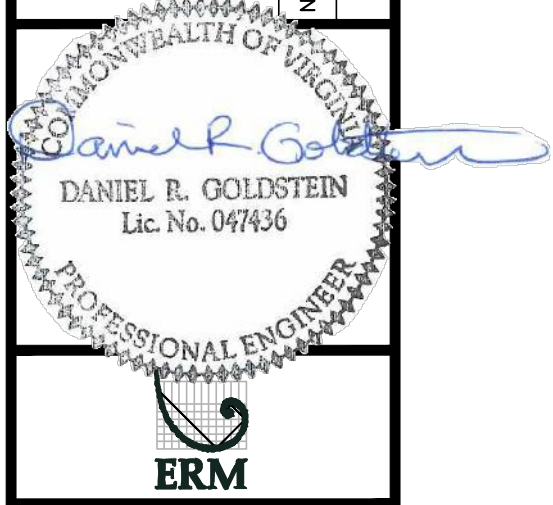
**LEGEND**

— — — — —	PROPERTY LINE	— — — — —	STORM SEWER	▨	EXTRA WORK SPACE	▨	TOPSOIL SEGREGATION AREA	▲	PERMANENT WATERBAR/SLOPE BREAKER	— — — — —	LOD	— — — — —	LIMIT OF DISTURBANCE	NOTES:	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.	◆	TEMPORARY WATERBAR/SLOPE BREAKER	— — — — —	BSRF	— — — — —	BELTED SILT RETENTION FENCE (BSRF)	2. STREAM AND WETLAND DATA SHOWN ON THE DRAWINGS WAS PROVIDED BY ERM.	2. IMAGERY TAKEN FROM GOOGLE EARTH.
— — — — —	STREAM	W	WATER LINE	▨	WETLAND	▨	UTILITY POLE	◆	TRENCH BREAKER/PLUG	— — — — —	C 111.003	— — — — —	COMPOST FILTER SOCK	3. ACCURACY OF THE RECORDS AS SHOWN ON THESE DRAWINGS.	3. ALL STATIONING SHOWN IS SLOPE STATIONING.
G G	EXISTING GAS PIPELINE	SAN	SANITARY SEWER	▨	WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)	▨	UTILITY POLE	◆	STREAM CROSSING	— — — — —	OH	— — — — —	SEDIMENT BARRIER IDENTIFICATION	4. EROSION AND SEDIMENTATION CONTROL ELEMENTS MAY BE SHOWN OUTSIDE OF THE WORK AREAS FOR CLARITY ONLY. ACTUAL INSTALLATION SHALL BE WITHIN THE WORK AREAS.	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
OH	OVERHEAD UTILITY LINES	— — — — —	EDGE OF GRAVEL	▨	WETLAND	▨	UTILITY POLE	◆	USFWS STREAM CROSSING WITH ENHANCED CONTROLS	— — — — —	— — — — —	— — — — —	ORANGE SAFETY FENCE	5. BELTED SILT RETENTION FENCE AND COMPOST FILTER SOCK SHALL BE INSTALLED PARALLEL TO CONTOUR TO EXTENT PRACTICABLE IN ACCORDANCE WITH STANDARD DETAIL. SEDIMENT	5. 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 ROAD	— — — — —	PROPOSED PERMANENT EASEMENT	▨	WETLAND	▨	UTILITY POLE	◆	SEEP	— — — — —	— — — — —	— — — — —	ROADSIDE DITCH	6. BEST IN CLASS (BIC) STEEP SLOPE CATEGORY INFORMATION CAN BE FOUND IN THE APPENDIX OF THE STORMWATER POLLUTION PREVENTION PLAN.	6. EROSION CONTROL MATING SHALL BE PLACED IN AREAS OF 30% SLOPE AND GREATER, WHICH ARE INDICATED ON THE BEST IN CLASS STEEP SLOPES BAND.
— — — — —	PROPOSED GAS PIPELINE	— — — — —	PROPOSED GAS PIPELINE (NO GROUND SURVEY)	▨	WETLAND	▨	UTILITY POLE	◆	SLOPE DIRECTION	— — — — —	— — — — —	— — — — —	SOIL TYPE	7. ACCESS ROADS HAVE BEEN GROUPED INTO FOUR CATEGORIES - 1) EXISTING ROADS NO IMPROVEMENTS, 2) EXISTING ROADS MINOR IMPROVEMENTS, 3) EXISTING ROADS MAJOR	7. APPROPRIATE EXISTING DRAINAGE DRAINAGE FEATURES WILL BE PROVIDED FOR ROADS IN CATEGORIES 2, 3 AND 4. ROADS IN CATEGORIES 1 AND 2 HAVE
									CONSTRUCTION ENTRANCE WITH DITCH	— — — — —	— — — — —	— — — — —	TYPICAL BIC SLOPE CATEGORY	8. ADEQUATE EXISTING DRAINAGE DRAINAGE FEATURES WILL BE PROVIDED FOR ROADS IN CATEGORIES 2, 3 AND 4. ROADS IN CATEGORIES 1 AND 2 HAVE	8. 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
									CULVERT/WATERBAR	— — — — —	— — — — —	— — — — —	SLOPE INCLINATION	9. 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)	9. UPLAND EROSION CONTROL, REVEGETATION, AND MAINTENANCE PLAN, SECTION V.A.5. IN ADDITION, WETLAND AND WATERBODY CROSSINGS WILL BE RESTORED TO PRE-CONSTRUCTION

NOTE: THE PE SEAL AND SIGNATURE APPLIES ONLY TO THE E&S CONTROL DESIGN COMPLETED BY ERM (SEE NOTE 12).

REVISIONS

NO.	DATE	CHKD.	APP'D.	DESCRIPTION



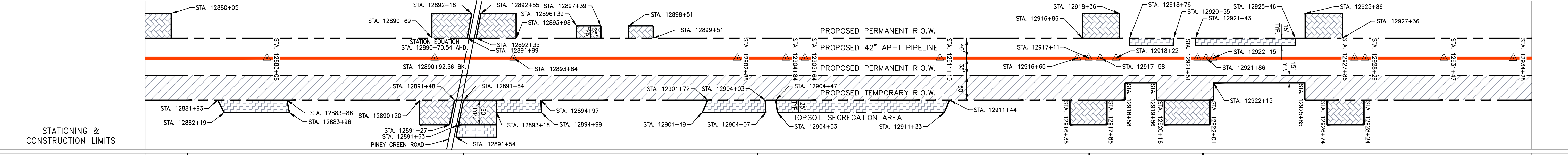
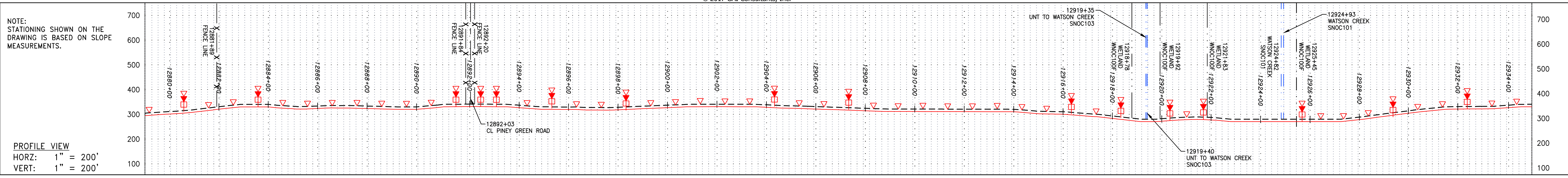
ATLANTIC COAST PIPELINE, LLC  
 C/O DOMINION TRANSMISSION, INC.  
 925 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330  
 NOTTOWAY COUNTY, VIRGINIA

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

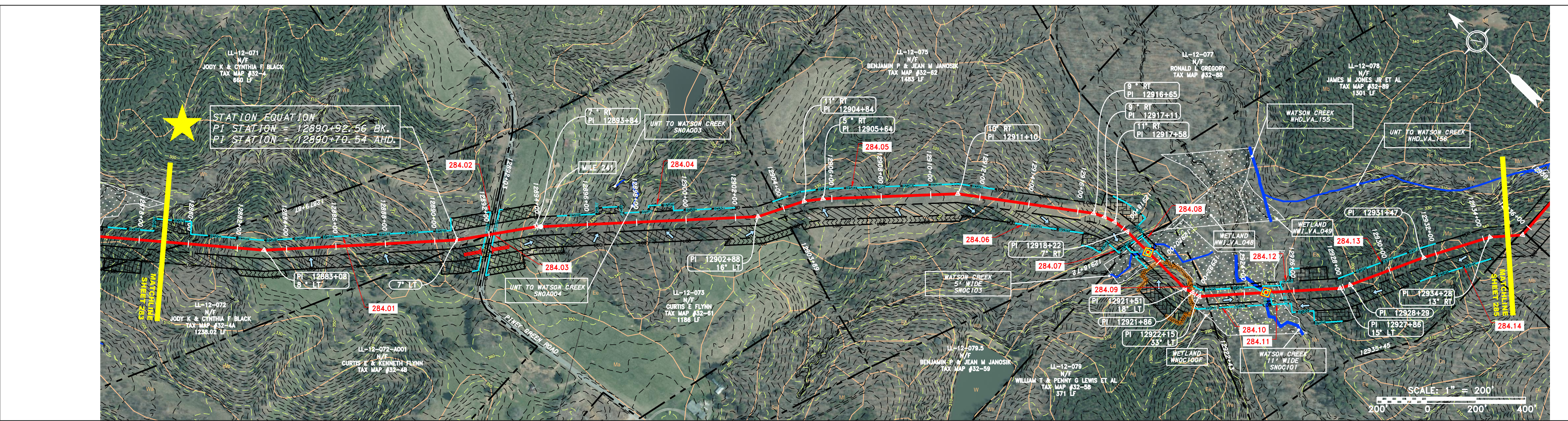


PROJECT NO./DASH NO. C140468  
 TASK NO. SUB TASK NO. 005 00  
 GROUP ID DRAWING NO. D E283  
 283 OF 344





PROPERTY OWNERSHIP	ADDRESS	OWNER	TAX MAP	ACRES
12873+27	12873+27	JODY K & CYNTHIA F BLACK	#32-4	660 LF
12892+03	12892+03	JODY K & CYNTHIA F BLACK	#32-4A	1238.02 LF
12903+89	12903+89	CURTIS E FLYNN	#32-61	1186 LF
12917+22	12917+22	BENJAMIN P & JEAN M JANOSIK	#32-62	1483 LF
12922+43	12922+43	WILLIAM T & PENNY G LEWIS ET AL	#32-58	371 LF
12935+44	12935+44	JAMES M JONES JR ET AL	#32-89	1301 LF



PIPE SPECIFICATION	NOT TO SCALE	CLASS
A	42" X 0.600" WT-X70 DSAW, FBE	A
B	42" X 0.720" WT-X70 DSAW, FBE	D
C	42" X 0.864" WT-X70 DSAW, FBE	A
D	42" X 0.600" WT-X70 DSAW, 6" CC	D
E	42" X 0.720" WT-X70 DSAW, 5 1/2" CC	A
F	42" X 0.864" WT-X70 DSAW, 4 1/2" CC	D
G	42" X 0.864" WT-X70 DSAW, 40 MIL PC	A
H	48" X 0.688" WT-X60 BARE, CASING	A

**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
- TOPSOIL SEGREGATION AREA
- PROPOSED TEMPORARY R.O.W.
- UTILITY POLE
- PERMANENT WATERBAR/SLOPE BREAKER
- TEMPORARY WATERBAR/SLOPE BREAKER
- TRENCH BREAKER/PLUG
- STREAM CROSSING
- USFSW STREAM CROSSING WITH ENHANCED CONTROLS
- SEEP
- SLOPE DIRECTION
- CONSTRUCTION ENTRANCE WITH DITCH
- CULVERT 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 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 STATICKING SHOWN IS SUBJECT TO CHANGE BASED ON FIELD CONDITIONS WITH APPROVAL FROM THE PROJECT ENVIRONMENTAL INSPECTOR.
- BELTED SILT RETENTION FENCE AND COMPOST FILTER SOCK SHALL BE INSTALLED PARALLEL TO CONTOUR TO EXTENT PRACTICABLE IN ACCORDANCE WITH STANDARD DESIGN. 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 5% SLOPE AND 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 1 AND 2.
- 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 INSTRUMENT OF SERVICE.
- 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
1					
2					
3					
4					
5					

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

**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. 12879+00 TO 12935+00

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

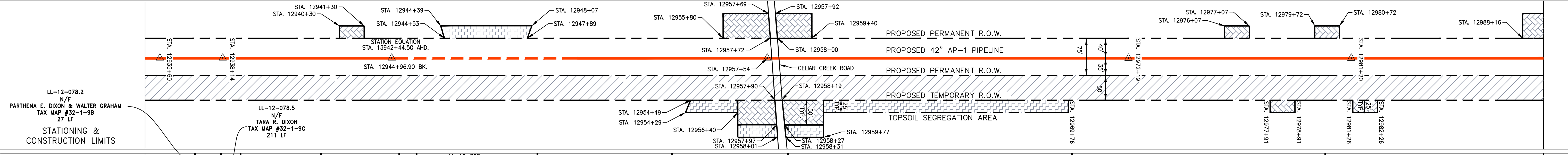
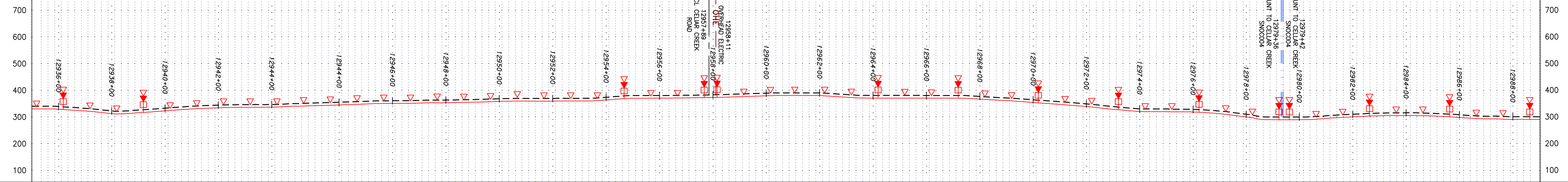
SOUTHPOINTE OFFICE  
 6000 TOWN CENTER BLVD.  
 CANONSBURG, PA 15317  
 724-673-3545

PROJECT NO./DASH NO.	140468
TASK NO./SUB TASK NO.	005 / 00
GROUP ID / DRAWING NO.	D / E284
284 OF 344	

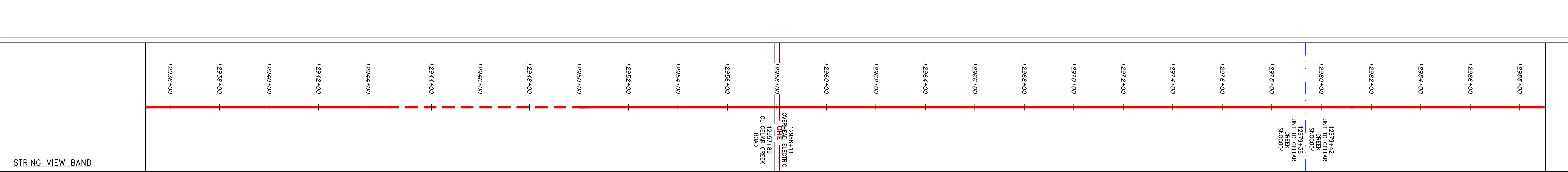
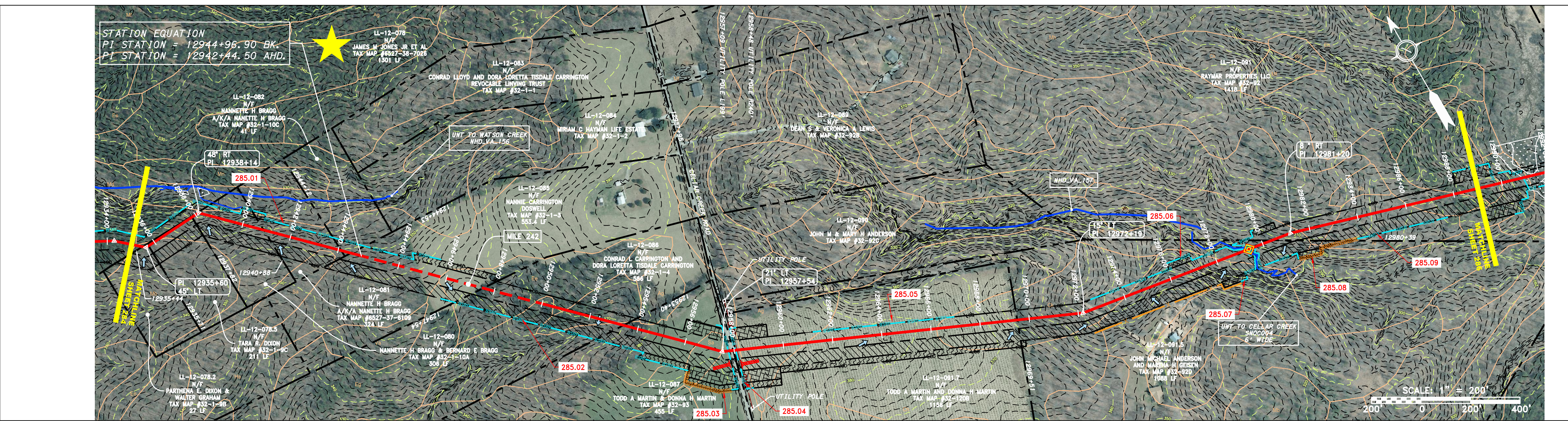


NOTE: STATIONING SHOWN ON THE DRAWING IS BASED ON SLOPE MEASUREMENTS.

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



PROPERTY OWNERSHIP	STATIONING & CONSTRUCTION LIMITS
LL-12-078 N/F JAMES M JONES JR ET AL TAX MAP #5327-38-7026 1301 LF	LL-12-078.2 N/F PARTHENA E. DIXON & WALTER GRAHAM TAX MAP #32-1-9B 27 LF
LL-12-078 N/F JAMES M JONES JR ET AL TAX MAP #5327-38-7026 1301 LF	LL-12-078.5 N/F TARA R. DIXON TAX MAP #32-1-9C 211 LF
LL-12-080 N/F NANNETTE H BRAGG & BERNARD E BRAGG TAX MAP #32-1-10A 306 LF	LL-12-081 N/F NANNETTE H BRAGG TAX MAP #32-1-10B 324 LF
LL-12-081 N/F NANNETTE H BRAGG TAX MAP #32-1-10B 324 LF	LL-12-082 N/F NANNETTE H BRAGG TAX MAP #32-1-10C 41 LF
LL-12-082 N/F NANNETTE H BRAGG TAX MAP #32-1-10C 41 LF	LL-12-085 N/F NANNIE CARRINGTON DOSWELL TAX MAP #32-1-3 553.4 LF
LL-12-086 N/F CONRAD L. CARRINGTON AND DORA LORETTA TISDALE CARRINGTON TAX MAP #32-1-4 586 LF	LL-12-087 N/F TODD A MARTIN & DONNA H MARTIN TAX MAP #32-93 455 LF
LL-12-087 N/F TODD A MARTIN & DONNA H MARTIN TAX MAP #32-93 455 LF	LL-12-091.7 N/F TODD A MARTIN AND DONNA H MARTIN TAX MAP #32-120B 1156 LF
LL-12-091.5 N/F JOHN MICHAEL ANDERSON AND MARTHA H GEISEN TAX MAP #32-92D 1088 LF	LL-12-091 N/F RAYMAR PROPERTIES LLC TAX MAP #32-92 1418 LF
LL-12-091 N/F RAYMAR PROPERTIES LLC TAX MAP #32-92 1418 LF	LL-12-091.5 N/F JOHN MICHAEL ANDERSON AND MARTHA H GEISEN TAX MAP #32-92D 1088 LF



**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 — EXISTING GAS PIPELINE	— SAN — SANITARY SEWER	□	□
— 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.
- 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.
- 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 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 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.
- 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 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) UP-AND 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.	APP'D.	DESCRIPTION

DANIEL R. GOLDSTEIN  
 Lic. No. 047436  
 ERM

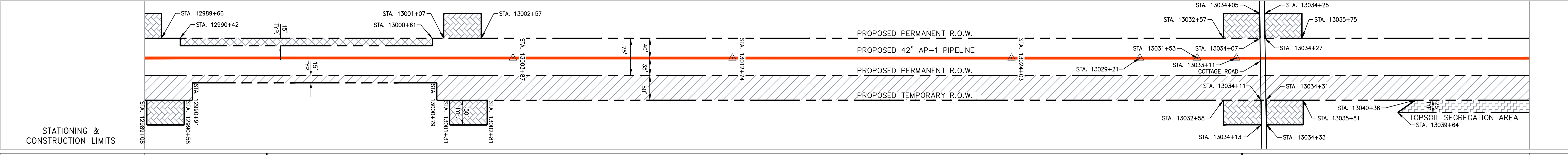
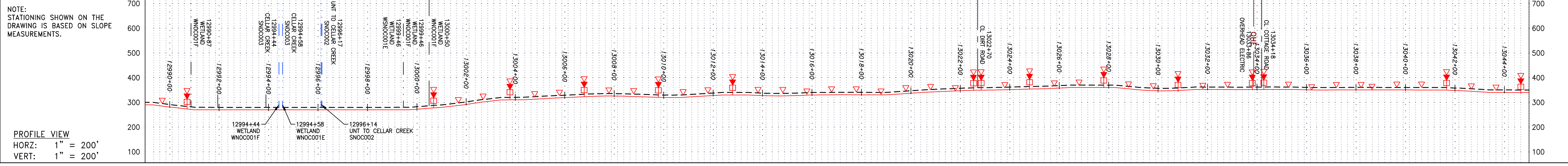
ATLANTIC COAST PIPELINE, LLC  
 C/O DOMINION TRANSMISSION, INC.  
 925 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330  
 NOTTOWAY COUNTY, VIRGINIA  
 CONSTRUCTION ALIGNMENT STA. 12935+00 TO 12989+00

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

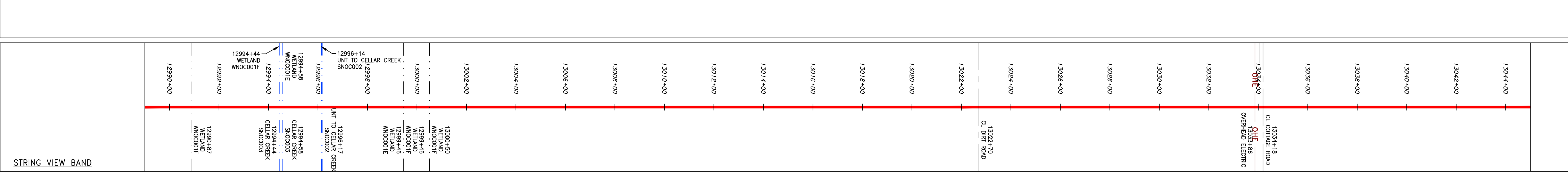
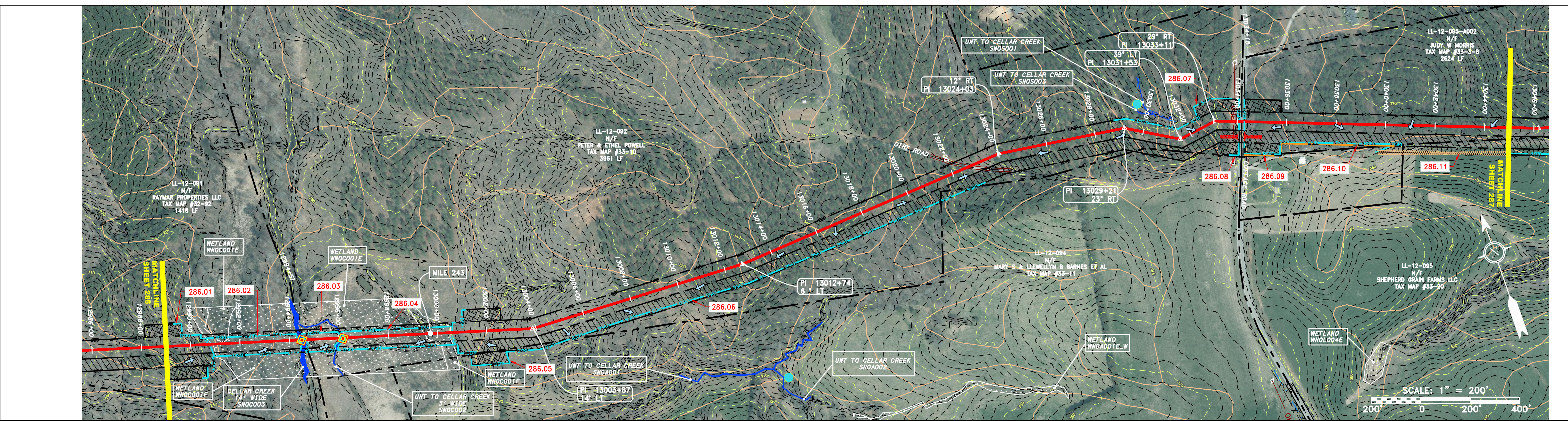
SOUTHPOINTE OFFICE  
 6000 TOWN CENTER BLVD.  
 CANONSBURG, PA 15317  
 724-373-3545

PROJECT NO./DASH NO.	C140468
TASK NO./SUB TASK NO.	005 / 00
GROUP ID / DRAWING NO.	D / E285
285 OF 344	4/1/2017 11:56 AM





PROPERTY OWNERSHIP	STATIONING
LL-12-091 RAYMAR PROPERTIES LLC TAX MAP #32-92 1418 LF	12980+39 to 12994+57
LL-12-092 PETER & ETHEL POWELL TAX MAP #33-10 3961 LF	13000+00 to 13034+18
LL-12-095-A002 N/F JUDY W MORRIS TAX MAP #33-3-8 2624 LF	13034+18 to 13060+42



**LEGEND**

— X — X —	PROPERTY LINE	— E —	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. 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 AREAS. 7. ALL STATIONING SHOWN IS SLOPE STATIONING. 8. 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. 9. BEST IN CLASS (BIC) STEEP SLOPE CATEGORY INFORMATION CAN BE FOUND IN THE APPENDIX OF THE STORMWATER POLLUTION PREVENTION PLAN. 10. IMPROVEMENTS AND 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. 11. 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. 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 INDEX 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) 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.
— G — G —	EXISTING GAS PIPELINE	— W —	WATER LINE	—	AREA OF NO DISTURBANCE	—	BSRF	—	BELTED SILT RETENTION FENCE (BSRF)	
— OH —	OVERHEAD UTILITY LINES	— SAN —	SANITARY SEWER	—	WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)	—	111.03	—	COMPOST FILTER SOCK	
—	ACCESS ROAD	—	EDGE OF GRAVEL	—	PROPOSED TEMPORARY R.O.W.	—	C 111.001	—	SEDIMENT BARRIER IDENTIFICATION	
—	PROPOSED GAS PIPELINE	—	PROPOSED PERMANENT EASEMENT	—	UTILITY POLE	—	X	—	ORANGE SAFETY FENCE	
—	PROPOSED GAS PIPELINE (NO GROUND SURVEY)	—	TOPSOIL SEGREGATION AREA	—	NOTE: THE PE SEAL AND SIGNATURE APPLIES ONLY TO THE E&S CONTROL DESIGN COMPLETED BY ERM (SEE NOTE 12).	—	CuB	—	ROADSIDE DITCH	
—		—		—		—	30-58%	—	SOIL TYPE	
—		—		—		—		—	TYPICAL BIC SLOPE CATEGORY SLOPE INCLINATION	
—		—		—		—		—		
—		—		—		—		—		
—		—		—		—		—		
—		—		—		—		—		
—		—		—		—		—		

NO.	DATE	BY	CHKD.	APPD.	DESCRIPTION

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

**ERM**

CONSTRUCTION ALIGNMENT STA. 12989+00 TO 13045+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

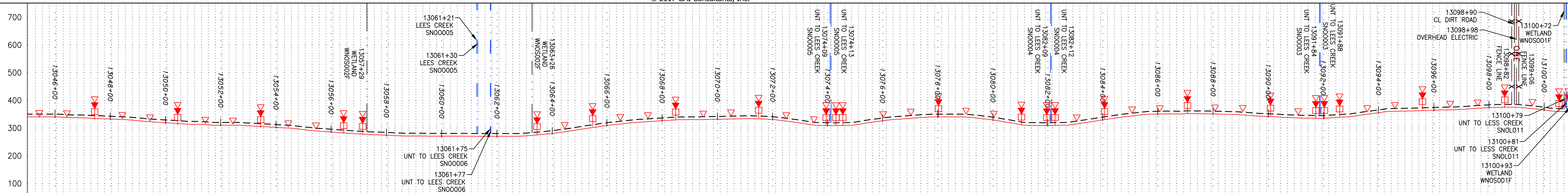
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TASK NO.	005
SUB TASK NO.	00
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DRAWING NO.	E286
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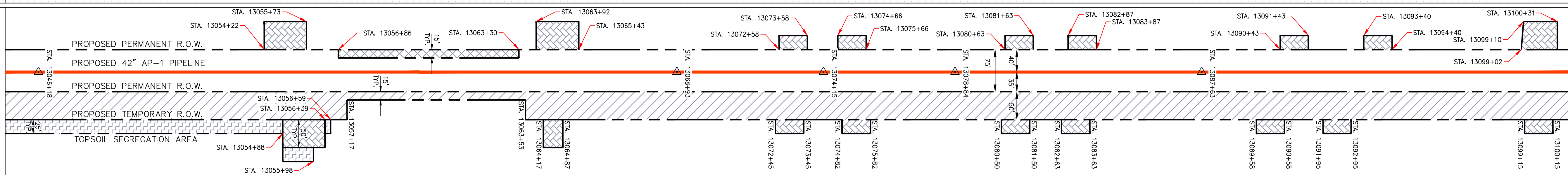


NOTE: STATIONING SHOWN ON THE DRAWING IS BASED ON SLOPE MEASUREMENTS.

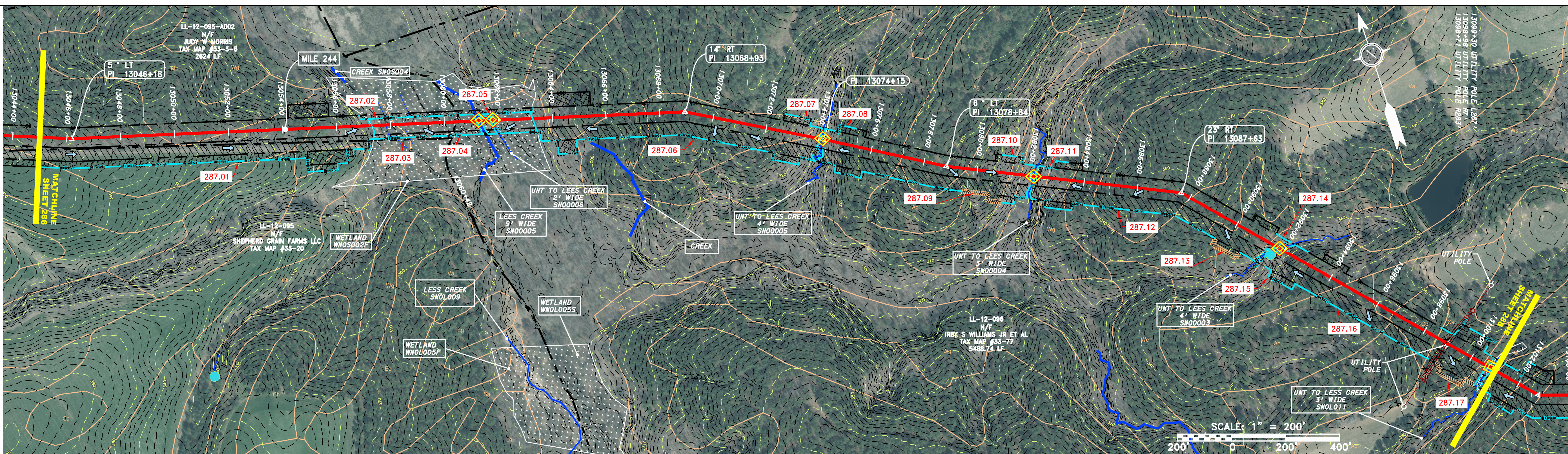
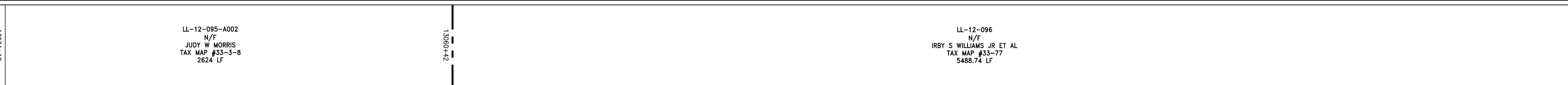
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 HORZ: 1" = 200'  
 VERT: 1" = 200'



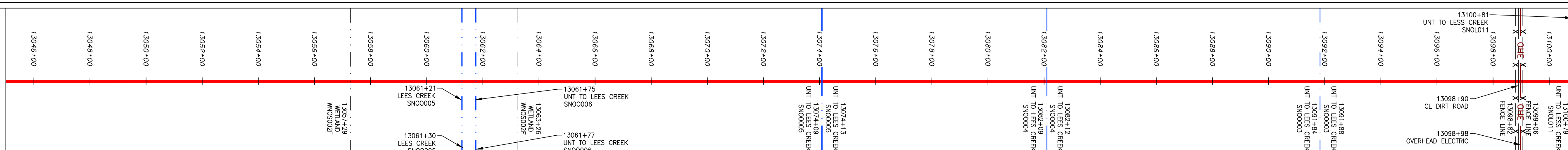
STATIONING & CONSTRUCTION LIMITS



PROPERTY OWNERSHIP



STRING VIEW BAND



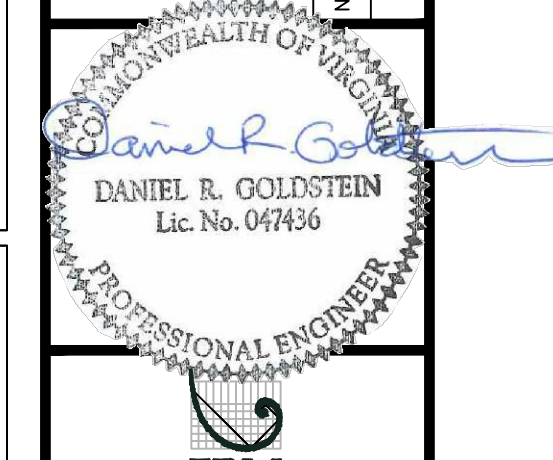
LEGEND

- PROPERTY LINE
- - - STORM SEWER
- X X FENCE
- UNDERGROUND ELECTRIC
- STREAM
- WATER LINE
- G G EXISTING GAS PIPELINE
- SANITARY SEWER
- OH OVERHEAD UTILITY LINES
- EDGE OF GRAVEL
- ACCESS ROAD
- PROPOSED PERMANENT EASEMENT
- PROPOSED GAS PIPELINE
- 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
- USFSW STREAM CROSSING WITH ENHANCED CONTROLS
- SEEP
- SLOPE DIRECTION
- CONSTRUCTION ENTRANCE WITH DITCH
- CULVERT AS NEEDED
- CULVERT/WATERBAR
- LOD
- BSRF
- COMPOST FILTER SOCK
- TYPICAL BIC SLOPE CATEGORY
- SLOPE INCLINATION
- LIMIT OF DISTURBANCE
- BELTED SILT RETENTION FENCE (BSRF)
- SEDIMENT BARRIER IDENTIFICATION
- CULVERT IDENTIFICATION
- ORANGE SAFETY FENCE
- ROADSIDE DITCH
- SOIL TYPE
- TYPICAL BIC SLOPE CATEGORY
- SLOPE INCLINATION

NOTES:

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NO.	DATE	BY	APPD.	DESCRIPTION



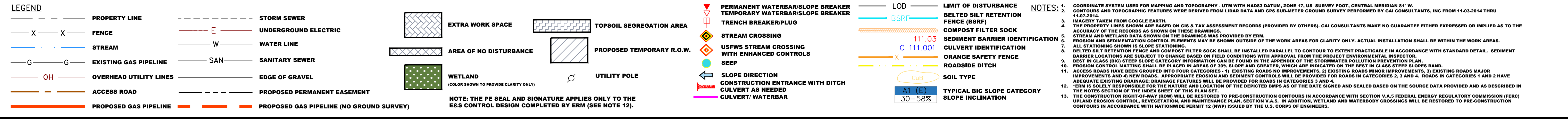
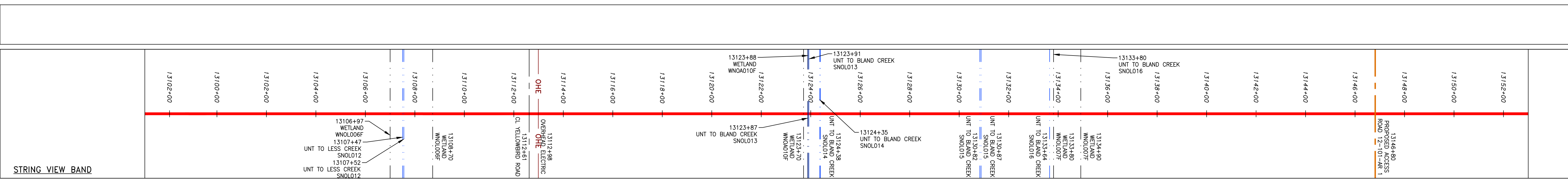
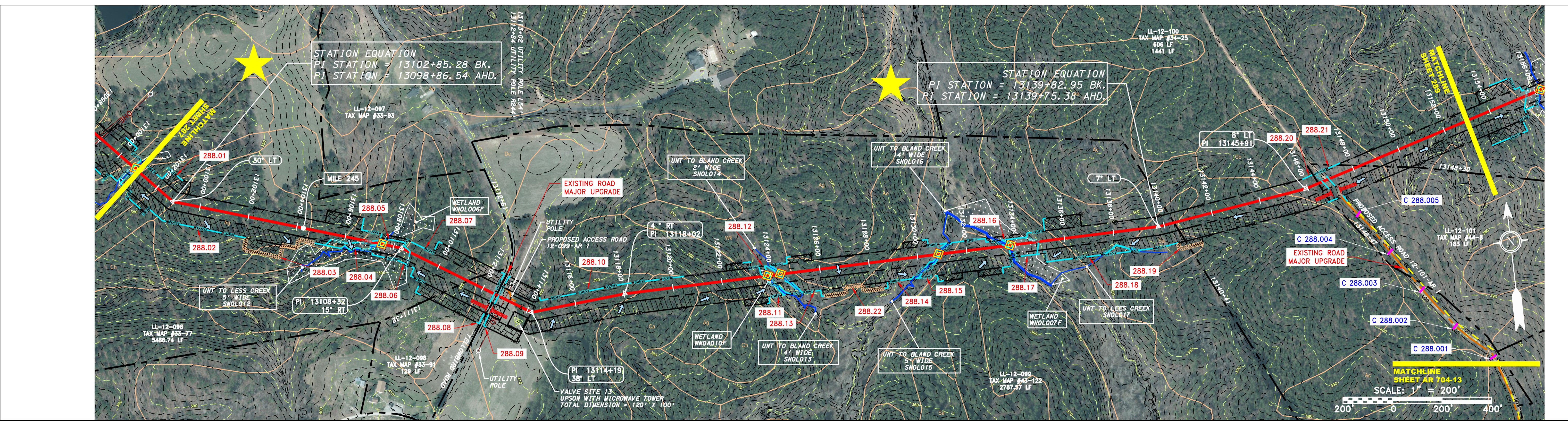
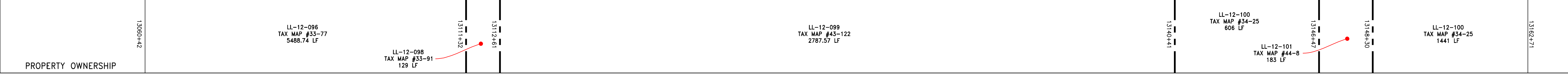
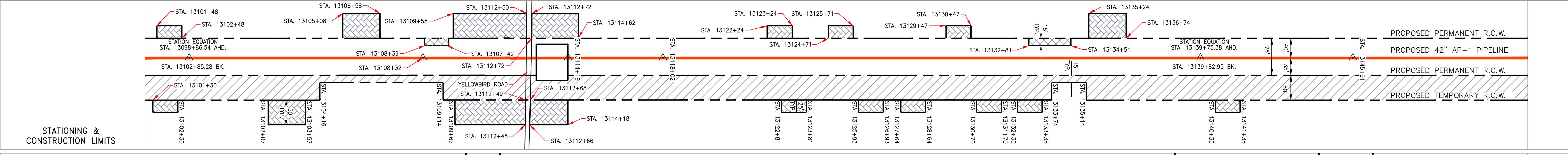
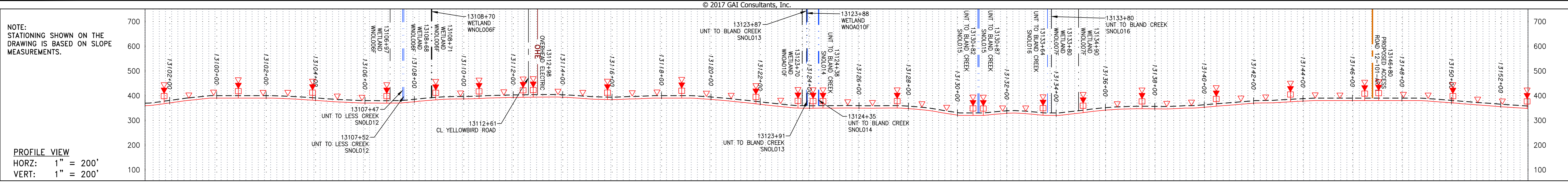
ATLANTIC COAST PIPELINE, LLC  
 C/O DOMINION TRANSMISSION, INC.  
 925 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330  
 NOTTOWAY COUNTY, VIRGINIA

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



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





REVISIONS

NO.	DATE	BY	APPD.	DESCRIPTION

DANIEL R. GOLDSTEIN  
 Lic. No. 047436  
 PROFESSIONAL ENGINEER

ERM

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

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

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

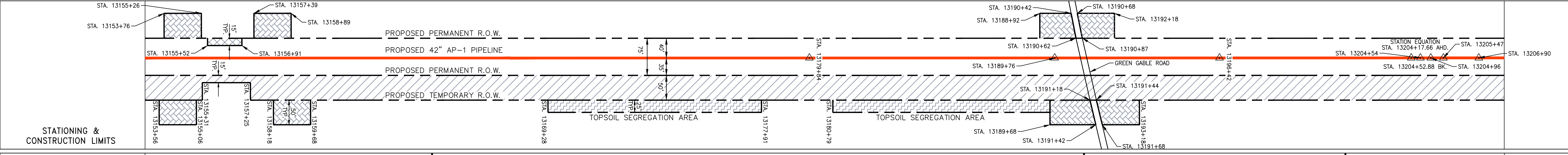
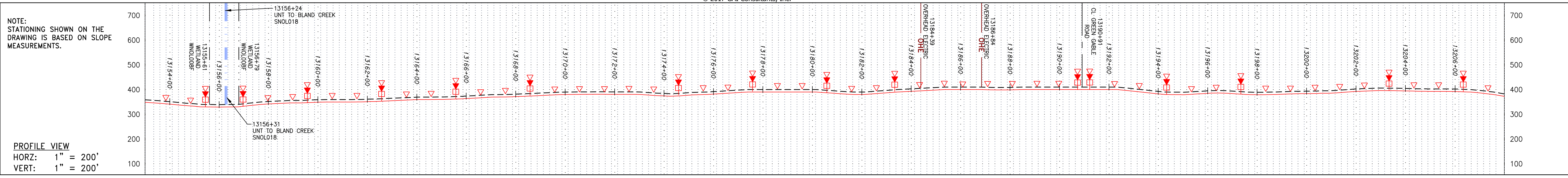
SOUTHPOINTE OFFICE  
 6000 TOWN CENTER BLVD.  
 CANONSBURG, PA 15317  
 724-873-3545

PROJECT NO./DASH NO.  
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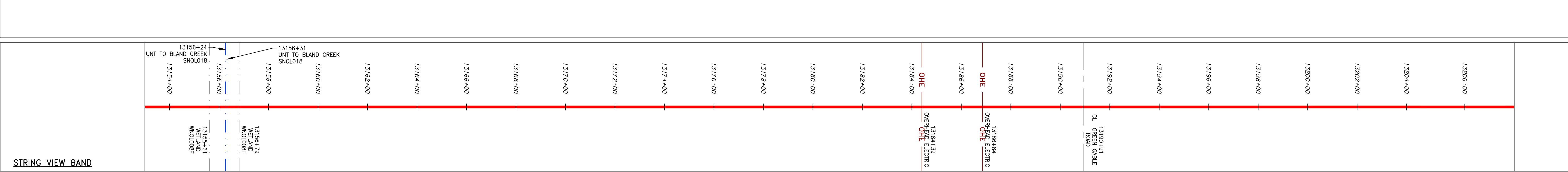
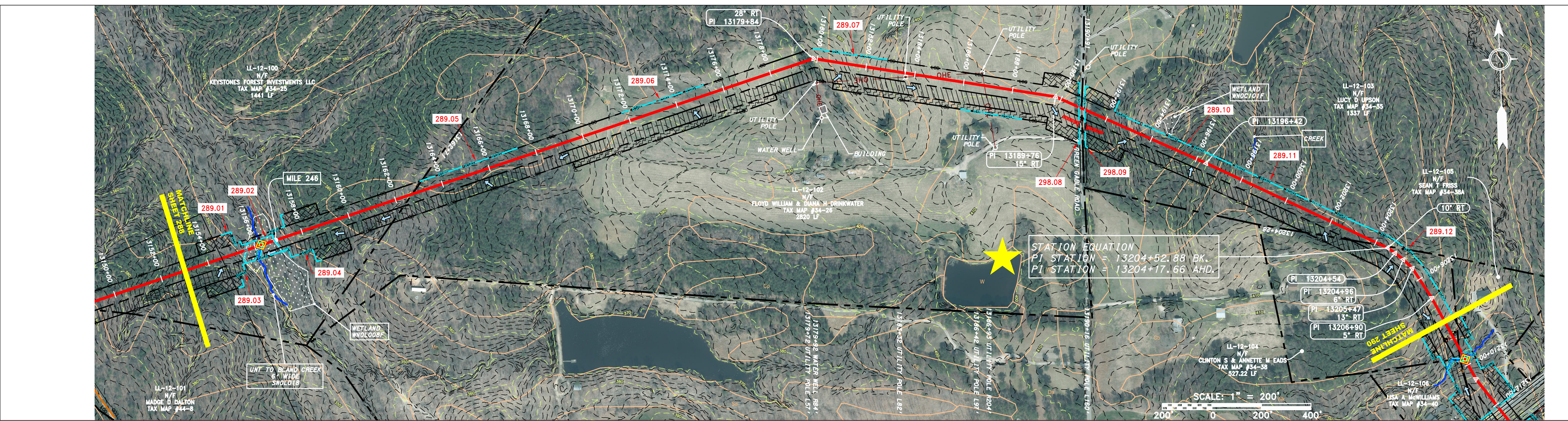
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PROPERTY OWNERSHIP	13148+00	13162+71	13179+84	13190+91	13204+28	13208+20
LL-12-100 KEYSTONE FOREST INVESTMENTS LLC TAX MAP #34-25 1441 LF						
LL-12-102 FLOYD WILLIAM & DIANA H DRINKWATER TAX MAP #34-26 2820 LF						
LL-12-103 LUCY D UPSON TAX MAP #34-35 1337 LF						
LL-12-104 CLINTON S & ANNETTE M EADS TAX MAP #34-38 527.22 LF						



**LEGEND**

— X — X —	PROPERTY LINE	— E —	STORM SEWER	[Hatched Box]	EXTRA WORK SPACE	[Hatched Box]	TOPSOIL SEGREGATION AREA	[Symbol]	PERMANENT WATERBAR/SLOPE BREAKER	[Symbol]	LOD	[Symbol]	LIMIT OF DISTURBANCE	[Symbol]	NOTES:
— W —	FENCE	— W —	UNDERGROUND ELECTRIC	[Hatched Box]	AREA OF NO DISTURBANCE	[Hatched Box]	PROPOSED TEMPORARY R.O.W.	[Symbol]	TEMPORARY WATERBAR/SLOPE BREAKER	[Symbol]	BSRF	[Symbol]	BELTED SILT RETENTION FENCE (BSRF)	[Symbol]	1. COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY - UTM WITH NAD83 DATUM, ZONE 17, US SURVEY FOOT, CENTRAL MERIDIAN 81° W.
— G —	STREAM	— SAN —	WATER LINE	[Hatched Box]	WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)	[Symbol]	UTILITY POLE	[Symbol]	TRENCH BREAKER/PLUG	[Symbol]	[Symbol]	[Symbol]	COMPOST FILTER SOCK	[Symbol]	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.
— OH —	EXISTING GAS PIPELINE	— OH —	SANITARY SEWER	[Symbol]	[Symbol]	[Symbol]	[Symbol]	[Symbol]	STREAM CROSSING	[Symbol]	[Symbol]	[Symbol]	ORANGE SAFETY FENCE	[Symbol]	3. STREAM AND WETLAND DATA SHOWN ON THE DRAWINGS WAS PROVIDED BY ERM.
— A1 (E) —	OVERHEAD UTILITY LINES	— A1 (E) —	EDGE OF GRAVEL	[Symbol]	[Symbol]	[Symbol]	[Symbol]	[Symbol]	USPWS STREAM CROSSING WITH ENHANCED CONTROLS	[Symbol]	[Symbol]	[Symbol]	ROADSIDE DITCH	[Symbol]	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 INHERSHEET OF THIS PLAN SET.
— A1 (E) —	ACCESS ROAD	— A1 (E) —	PROPOSED PERMANENT EASEMENT	[Symbol]	[Symbol]	[Symbol]	[Symbol]	[Symbol]	SEEP	[Symbol]	[Symbol]	[Symbol]	SOIL TYPE	[Symbol]	5. ALL STATIONING SHOWN IS SLOPE STATIONING.
— A1 (E) —	PROPOSED GAS PIPELINE	— A1 (E) —	PROPOSED GAS PIPELINE (NO GROUND SURVEY)	[Symbol]	[Symbol]	[Symbol]	[Symbol]	[Symbol]	SLOPE DIRECTION	[Symbol]	[Symbol]	[Symbol]	TYPICAL BIC SLOPE CATEGORY SLOPE INCLINATION	[Symbol]	6. ERM AND SEDIMENTATION CONTROL ELEMENTS MAY BE SHOWN OUTSIDE OF THE WORK AREAS FOR CLARITY ONLY. ACTUAL INSTALLATION SHALL BE WITHIN THE WORK AREAS.

NOTE: THE PE SEAL AND SIGNATURE APPLIES ONLY TO THE E&S CONTROL DESIGN COMPLETED BY ERM (SEE NOTE 12).

**REVISIONS**

NO.	DATE	BY	APPD.	DESCRIPTION

**Professional Engineer**  
 Daniel R. Goldstein  
 Lic. No. 047436  
 ERM

42" AP-1 PIPELINE  
 CONSTRUCTION ALIGNMENT STA. 13153+00 TO 13208+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

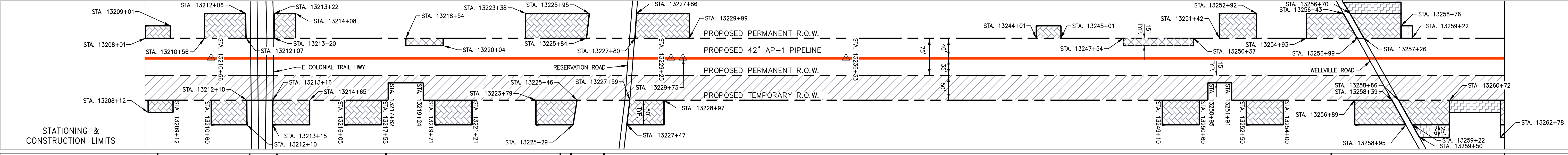
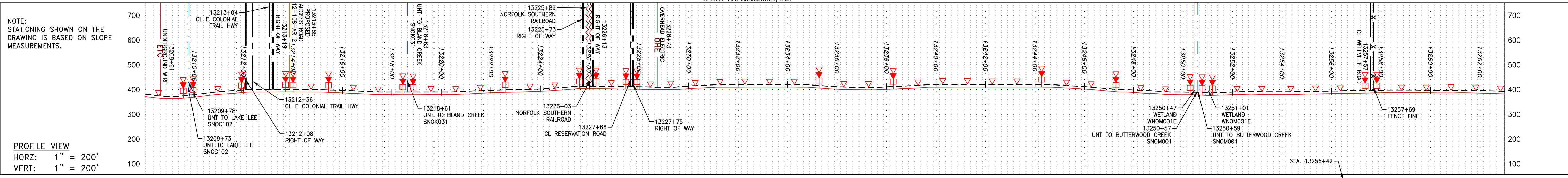
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TASK NO. SUB TASK NO.  
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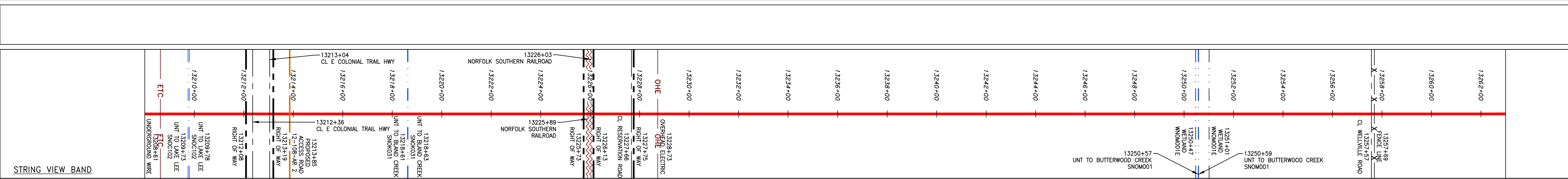
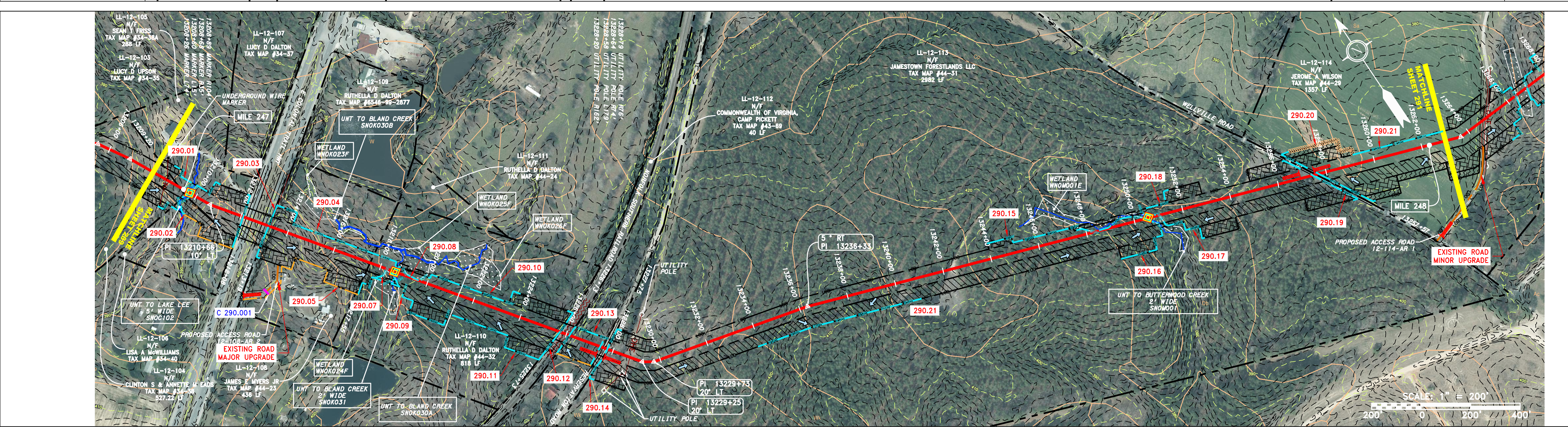
GROUP ID DRAWING NO.  
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289 OF 344





LL-12-104	LL-12-105	LL-12-108	LL-12-110	LL-12-112	LL-12-113	LL-12-114
CLINTON S & ANNETTE M EADS N/F TAX MAP #34-38 527.22 LF	SEAN T FRISS N/F TAX MAP #34-38A 288 LF	JAMES E MYERS JR N/F TAX MAP #44-23 436 LF	RUTHELLA D DALTON N/F TAX MAP #44-32 818 LF	COMMONWEALTH OF VIRGINIA, CAMP PICKETT TAX MAP #43-69 40 LF	JAMESTOWN FORESTLANDS LLC N/F TAX MAP #44-31 2982 LF	JEROME A WILSON N/F TAX MAP #44-29 1357 LF



**LEGEND**

— — — — — PROPERTY LINE	— — — — — STORM SEWER	— — — — — EXTRA WORK SPACE	— — — — — TOPSOIL SEGREGATION AREA
X X FENCE	— — — — — UNDERGROUND ELECTRIC	— — — — — AREA OF NO DISTURBANCE	— — — — — PROPOSED TEMPORARY R.O.W.
— — — — — STREAM	— — — — — WATER LINE	— — — — — WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)	— — — — — UTILITY POLE
G G EXISTING GAS PIPELINE	— — — — — SANITARY SEWER	— — — — — PERMANENT WATERBAR/SLOPE BREAKER	— — — — — LIMIT OF DISTURBANCE
OH OVERHEAD UTILITY LINES	— — — — — EDGE OF GRAVEL	— — — — — TRENCH BREAKER/PLUG	— — — — — BELTED SILT RETENTION FENCE (BSRF)
— — — — — ACCESS ROAD	— — — — — PROPOSED PERMANENT EASEMENT	— — — — — STREAM CROSSING	— — — — — COMPOST FILTER SOCK
— — — — — PROPOSED GAS PIPELINE (NO GROUND SURVEY)	— — — — — PROPOSED GAS PIPELINE (NO GROUND SURVEY)	— — — — — USFWS STREAM CROSSING WITH ENHANCED CONTROLS	— — — — — CULVERT IDENTIFICATION
		— — — — — SLEEP	— — — — — SEDIMENT BARRIER IDENTIFICATION
		— — — — — STREAM DIRECTION	— — — — — ORANGE SAFETY FENCE
		— — — — — CONSTRUCTION ENTRANCE WITH DITCH	— — — — — ROADSIDE DITCH
		— — — — — CULVERT AS NEEDED	— — — — — SOIL TYPE
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**NOTES:**

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**REVISIONS**

NO.	DATE	BY	CHKD.	APPD.	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

**CONSTRUCTION ALIGNMENT STA. 13208+00 TO 13263+00**

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 / E290

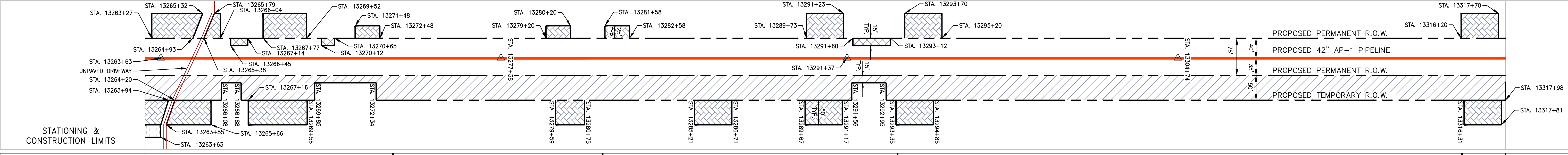
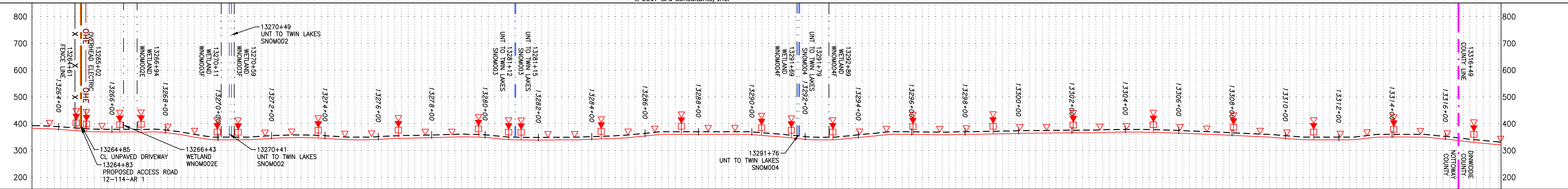
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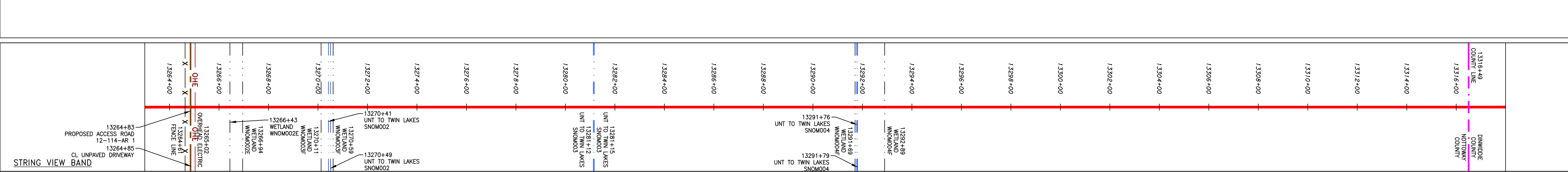
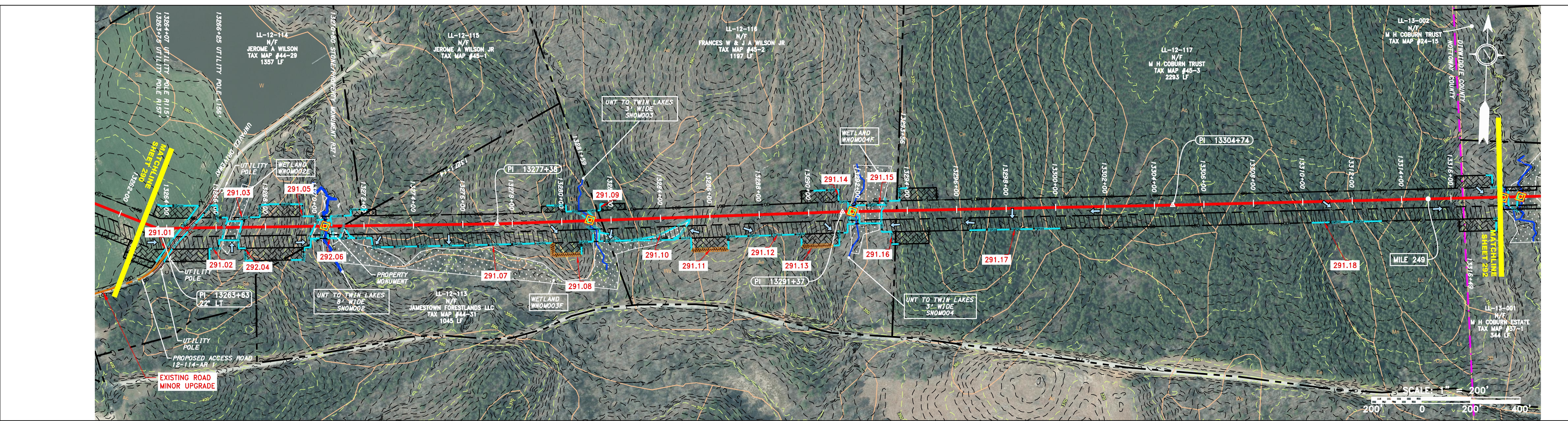


NOTE: STATIONING SHOWN ON THE DRAWING IS BASED ON SLOPE MEASUREMENTS.

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



PROPERTY OWNERSHIP	ADDRESS	OWNER	TAX MAP	ACRES
13257+57	LL-12-114	N/F JEROME A WILSON	TAX MAP #44-29	1357 LF
13271+14	LL-12-113	N/F JAMESTOWN FORESTLANDS LLC	TAX MAP #44-31	1045 LF
13281+59	LL-12-116	N/F FRANCES W & J A WILSON JR	TAX MAP #45-2	1197 LF
13293+58	LL-12-117	N/F M H COBURN TRUST	TAX MAP #45-3	2293 LF
13319+93	LL-13-001	N/F M H COBURN TRUST	TAX MAP #37-1	344 LF



**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.	▨	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.
— G —	EXISTING GAS PIPELINE	— W —	WATER LINE	▨	WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)	▨	UTILITY POLE	▨	111.03	3.	IMAGERY TAKEN FROM GOOGLE EARTH.
— OH —	OVERHEAD UTILITY LINES	— SAN —	SANITARY SEWER	▨	NOTE: THE PE SEAL AND SIGNATURE APPLIES ONLY TO THE E&S CONTROL DESIGN COMPLETED BY ERM (SEE NOTE 12).	▨		▨	C 111.001	4.	ACCURACY OF THE RECORDS AS SHOWN ON THESE DRAWINGS.
—	ACCESS ROAD	—	EDGE OF GRAVEL	▨		▨		▨	X	5.	ALL STATIONING SHOWN IS SLOPE STATIONING.
—	PROPOSED GAS PIPELINE	—	PROPOSED PERMANENT EASEMENT	▨		▨		▨	—	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.	EROSION AND SEDIMENTATION CONTROL ELEMENTS MAY BE SHOWN OUTSIDE OF THE WORK AREAS FOR CLARITY ONLY. ACTUAL INSTALLATION SHALL BE WITHIN THE WORK AREAS.
									—	8.	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.
									—	9.	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.
									—	10.	BEST IN CLASS (BIC) STEEP SLOPE CATEGORY INFORMATION CAN BE FOUND IN THE APPENDIX OF THE STORMWATER POLLUTION PREVENTION PLAN.
									—	11.	EROSION CONTROL MATING SHALL BE PLACED IN AREAS OF 3% SLOPE AND GREATER, WHICH ARE INDICATED ON THE BEST IN CLASS STEEP SLOPE BAND.
									—	12.	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 1 AND 2.
									—	13.	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.
									—	14.	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.

**REVISIONS**

NO.	DATE	BY	DESCRIPTION

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

**ERM**

**42" AP-1 PIPELINE**  
CONSTRUCTION ALIGNMENT STA. 13263+00 TO 13318+00  
NOTOWAY & DINWIDDIE COUNTIES, 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 E291

291 OF 344





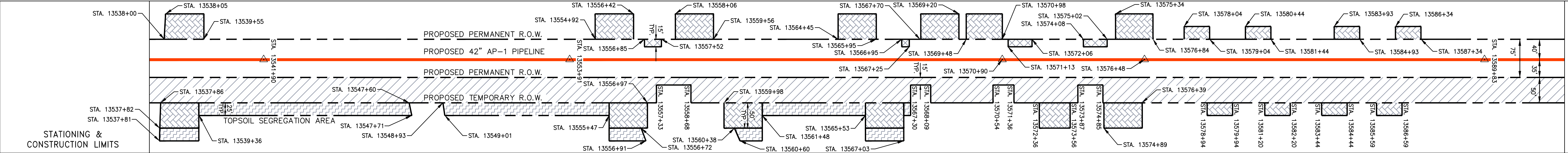
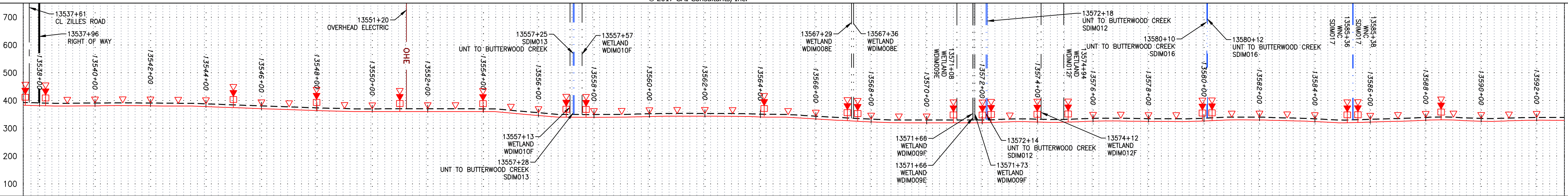




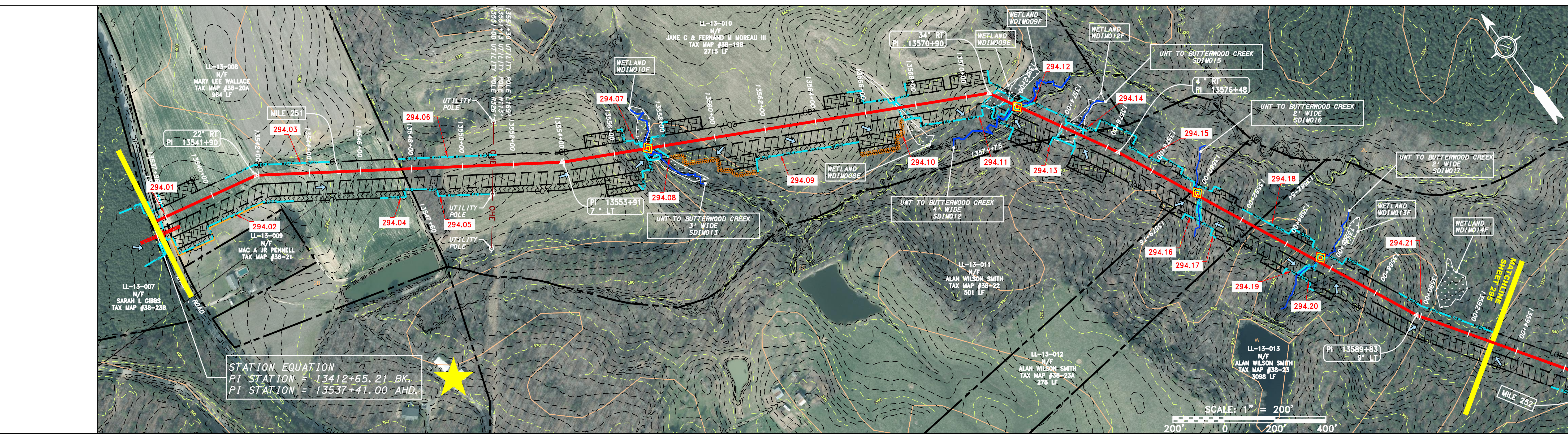


NOTE: STATIONING SHOWN ON THE DRAWING IS BASED ON SLOPE MEASUREMENTS.

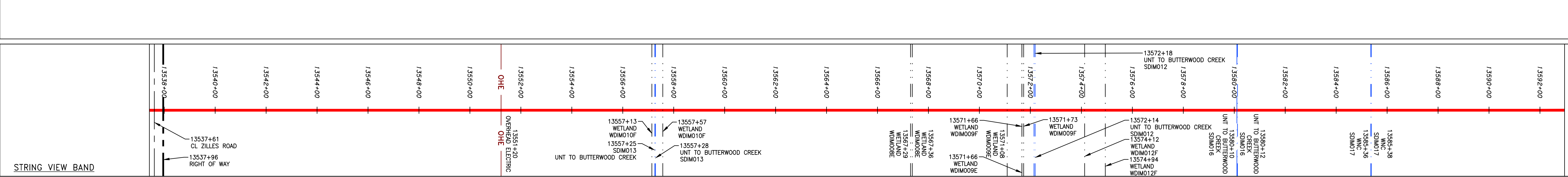
PROFILE VIEW  
 HORZ: 1" = 200'  
 VERT: 1" = 200'



PROPERTY OWNERSHIP	ADDRESS	TAX MAP	ACRES
LL-13-008	MARY LEE WALLACE	TAX MAP #38-20A	964 LF
LL-13-010	JANE C & FERNAND M MOREAU III	TAX MAP #38-19B	2715 LF
LL-13-011	ALAN WILSON SMITH	TAX MAP #38-22	501 LF
LL-13-012	ALAN WILSON SMITH	TAX MAP #38-23A	278 LF
LL-13-013	ALAN WILSON SMITH	TAX MAP #38-23	3098 LF



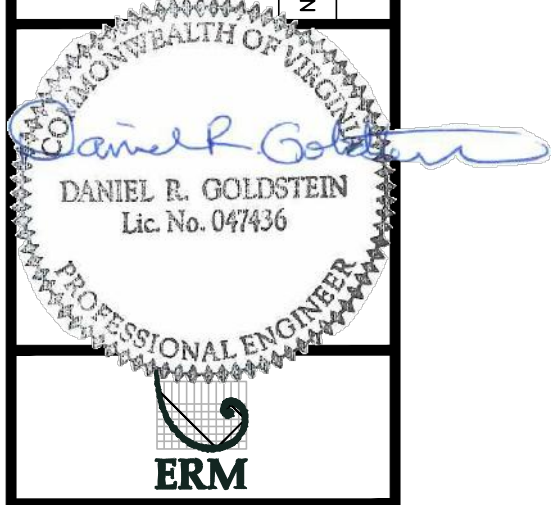
STATION EQUATION  
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 PI STATION = 13537+41.00 AHD.



LEGEND	DESCRIPTION
---	PROPERTY LINE
X X	FENCE
---	STREAM
G G	EXISTING GAS PIPELINE
OH	OVERHEAD UTILITY LINES
---	ACCESS ROAD
---	PROPOSED GAS PIPELINE
---	PROPOSED GAS PIPELINE (NO GROUND SURVEY)
---	STORM SEWER
---	UNDERGROUND ELECTRIC
---	WATER LINE
---	SANITARY SEWER
---	EDGE OF GRAVEL
---	PROPOSED PERMANENT EASEMENT
---	PROPOSED PERMANENT R.O.W.
---	PROPOSED TEMPORARY R.O.W.
---	WETLAND
---	UTILITY POLE
---	PERMANENT WATERBAR/SLOPE BREAKER
---	TEMPORARY WATERBAR/SLOPE BREAKER
---	TRENCH BREAKER/PLUG
---	STREAM CROSSING
---	USPWS STREAM CROSSING WITH ENHANCED CONTROLS
---	SEEP
---	SLOPE DIRECTION
---	CONSTRUCTION ENTRANCE WITH DITCH
---	CULTIVAR 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:  
 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. BEST MANAGEMENT PRACTICES (BMPs) 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 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 GREATER, WHICH ARE INDICATED ON THE BEST IN CLASS STEEP SLOPES 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 1 AND 2.  
 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.

NO.	DATE	BY	CHKD.	APP'D.	DESCRIPTION



42" AP-1 PIPELINE  
 CONSTRUCTION ALIGNMENT STA. 13537+41 TO 13593+00  
 ATLANTIC COAST PIPELINE, LLC  
 C/O DOMINION TRANSMISSION, INC.  
 925 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330  
 DINWIDDIE COUNTY, VIRGINIA

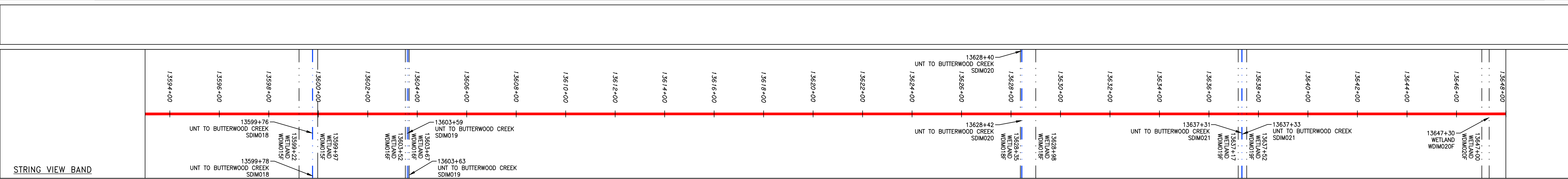
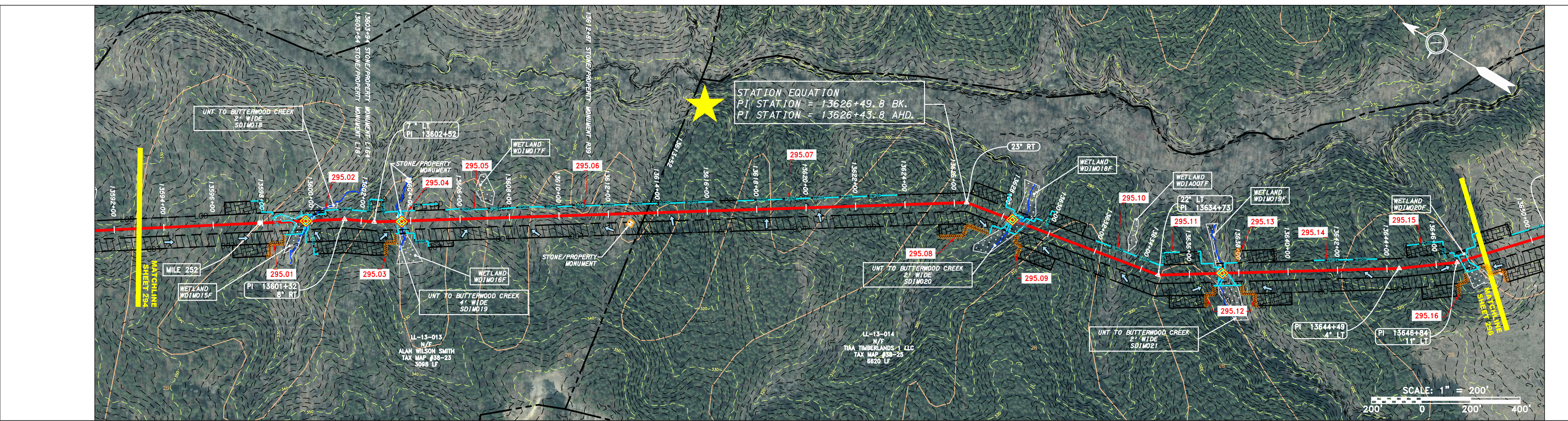
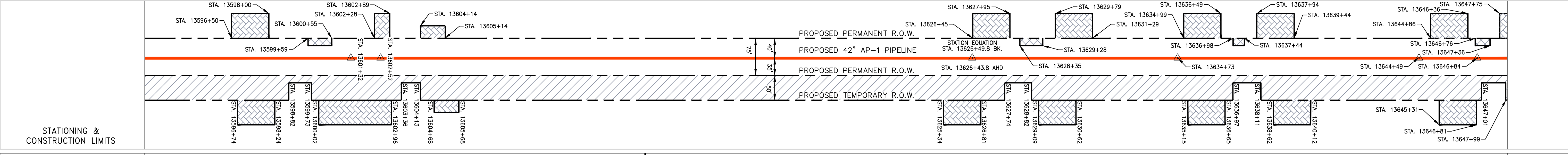
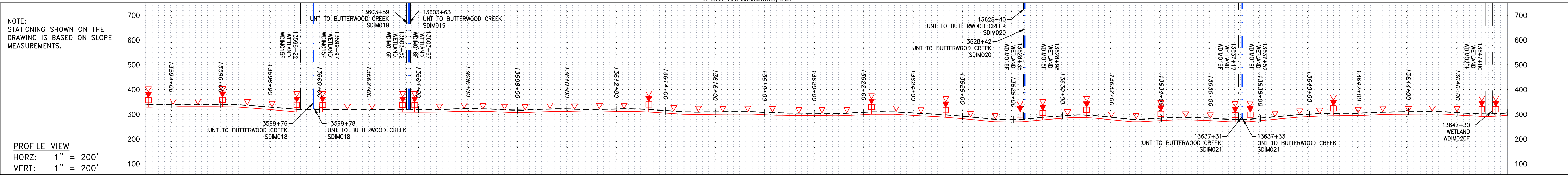
SCALE: AS SHOWN  
 DATE: 11/23/2016  
 DRAWN: JFS  
 CHECKED: DLH  
 APPROVED: NET



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

PROJECT NO./DASH NO.	140/468
TASK NO./SUB TASK NO.	005 / 00
GROUP ID	D
DRAWING NO.	E294
294	OF 344





**LEGEND**

—	PROPERTY LINE	—	STORM SEWER	▨	EXTRA WORK SPACE	▨	TOPSOIL SEGREGATION AREA	▨	PERMANENT WATERBAR/SLOPE BREAKER	—	LOD	—	LIMIT OF DISTURBANCE	1.	<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. 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. 4. 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 AREAS. 7. ALL STATIONING SHOWN IS SLOPE STATIONING. 8. EROSION CONTROL BARRIER LOCATIONS ARE SUBJECT TO CHANGE BASED ON FIELD CONDITIONS WITH APPROVAL FROM THE PROJECT ENVIRONMENTAL INSPECTOR. 9. BEST IN CLASS (BIC) STEEP SLOPE CATEGORY INFORMATION CAN BE FOUND IN THE APPENDIX OF THE STORMWATER POLLUTION PREVENTION PLAN. 10. EROSION CONTROL MATING SHALL BE PLACED IN AREAS OF 30% SLOPE AND GREATER, WHICH ARE INDICATED ON THE BEST IN CLASS STEEP SLOPE BAND. 11. 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. 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 INDEX 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) 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	▨	AREA OF NO DISTURBANCE	▨	PROPOSED TEMPORARY R.O.W.	▨	—	BSRF	—	BELTED SILT RETENTION FENCE (BSRF)	—	2.	
—	STREAM	—W—	WATER LINE	▨	WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)	▨	UTILITY POLE	▨	—	—	—	COMPOST FILTER SOCK	—	3.	
—G—	EXISTING GAS PIPELINE	—S—	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.	
—OH—	OVERHEAD UTILITY LINES	—	EDGE OF GRAVEL	▨		▨		▨	—	—	—	CULVERT IDENTIFICATION	—	5.	
—	ACCESS ROAD	—	PROPOSED PERMANENT EASEMENT	▨		▨		▨	—	—	—	ORANGE SAFETY FENCE	—	6.	
—	PROPOSED GAS PIPELINE (NO GROUND SURVEY)	—	PROPOSED GAS PIPELINE	▨		▨		▨	—	—	—	ROADSIDE DITCH	—	7.	
				▨		▨		▨	—	—	—	SOIL TYPE	—	8.	
				▨		▨		▨	—	—	—	TYPICAL BIC SLOPE CATEGORY SLOPE INCLINATION	—	9.	
				▨		▨		▨	—	—	—		—	10.	
				▨		▨		▨	—	—	—		—	11.	
				▨		▨		▨	—	—	—		—	12.	
				▨		▨		▨	—	—	—		—	13.	

**REVISIONS**

NO.	DATE	BY	CHKD.	APPD.	DESCRIPTION

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

**ERM**

**42" AP-1 PIPELINE**  
 CONSTRUCTION ALIGNMENT STA. 13593+00 TO 13648+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: SAQ  
 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 E295

295 OF 344

4/4/2017 3:12 PM

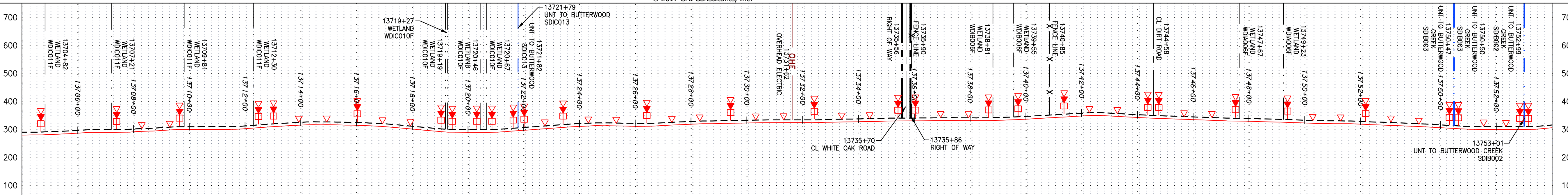




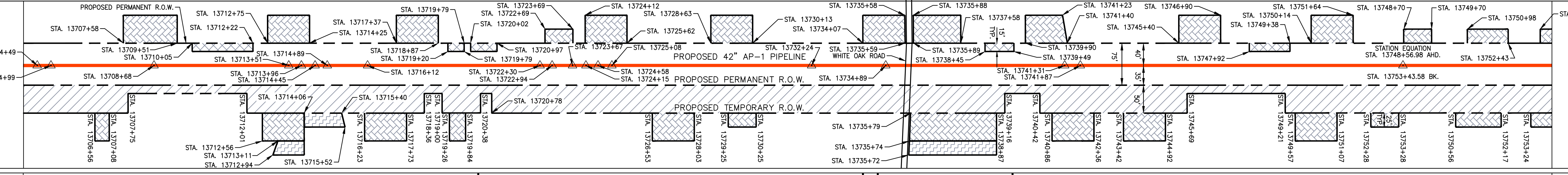


NOTE: STATIONING SHOWN ON THE DRAWING IS BASED ON SLOPE MEASUREMENTS.

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



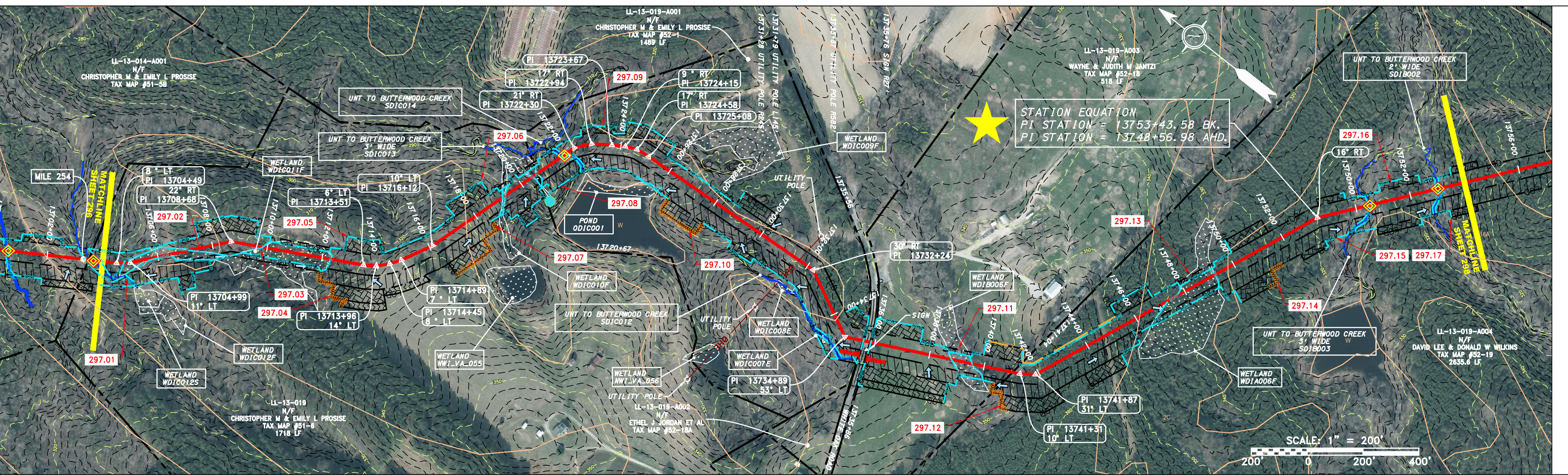
STATIONING & CONSTRUCTION LIMITS



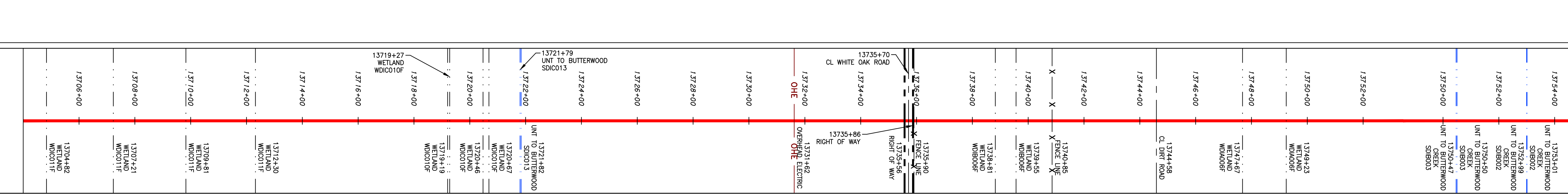
PROPERTY OWNERSHIP



LEGEND



STRING VIEW BAND



LEGEND

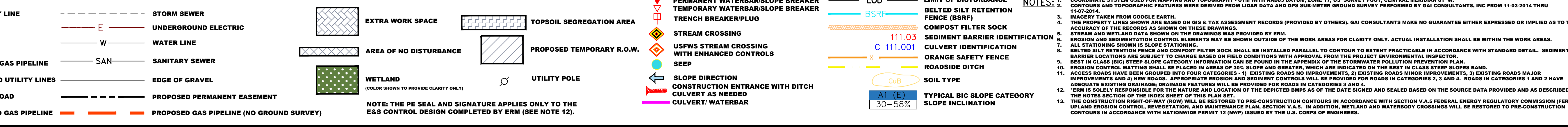


Table with columns: NO., DATE, DWN., CHGD., APPD., DESCRIPTION. Includes a signature for Daniel R. Goldstein, Professional Engineer, and the ERM logo.

42" AP-1 PIPELINE  
CONSTRUCTION ALIGNMENT STA. 13704+00 TO 13754+00  
ATLANTIC COAST PIPELINE, LLC  
C/O DOMINION TRANSMISSION, INC.  
9605 WHITEHAWKSBROOK LANE, SUITE 200, DUNEDAN, VA 24538

Table with columns: SCALE, DATE, DRAWN, CHECKED, APPROVED. Values: AS SHOWN, 11/23/2016, SAQ, DLH, NET.

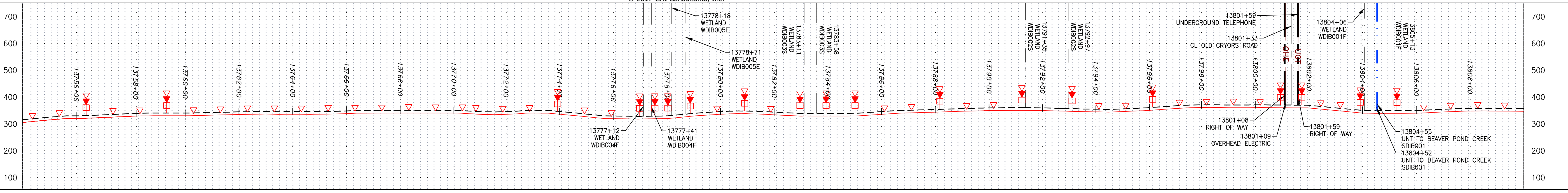
gai consultants logo and address: SOUTHPOINTE OFFICE, 6000 TOWN CENTER BLVD., CANONSBURG, PA 15317, 724-873-3545.

Table with columns: PROJECT NO./DASH NO., TASK NO., SUB TASK NO., GROUP ID, DRAWING NO. Values: 140468, 005, 00, D, E297.

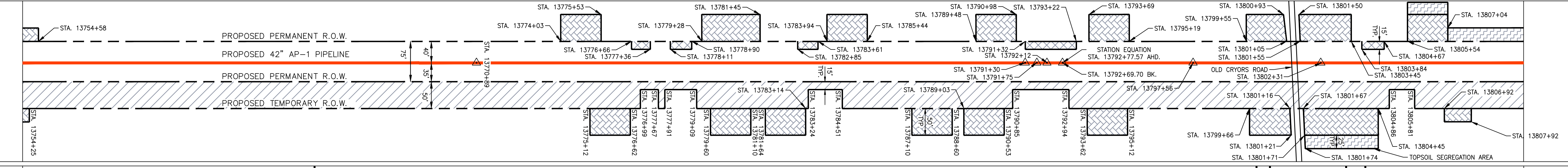


NOTE: STATIONING SHOWN ON THE DRAWING IS BASED ON SLOPE MEASUREMENTS.

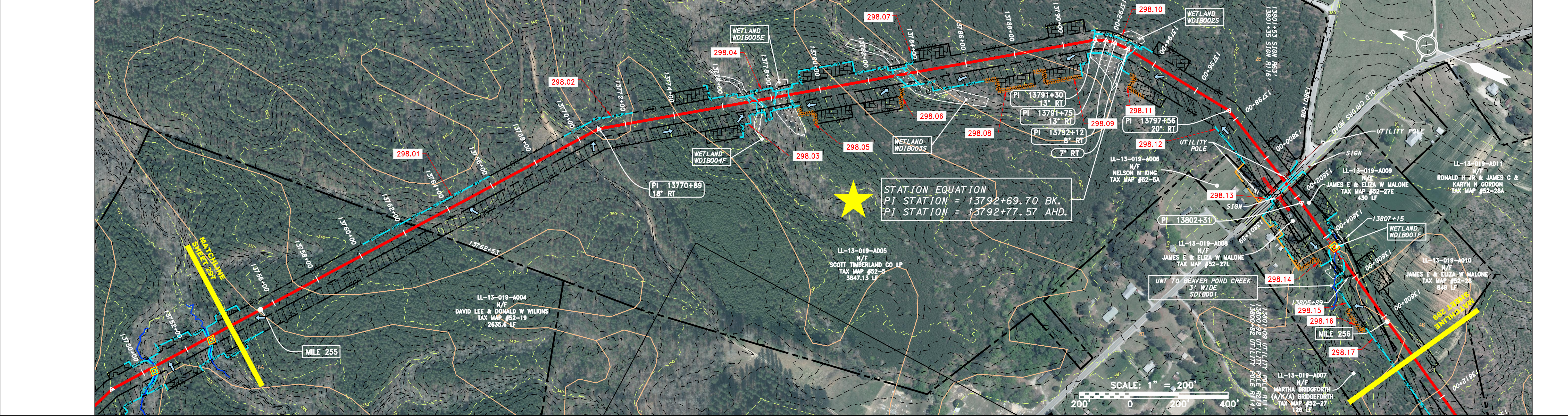
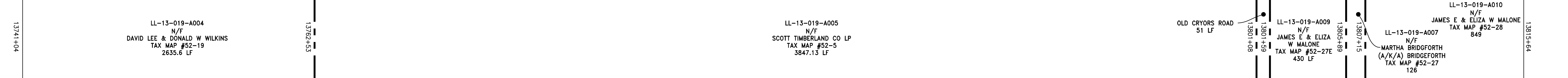
PROFILE VIEW  
 HORZ: 1" = 200'  
 VERT: 1" = 200'



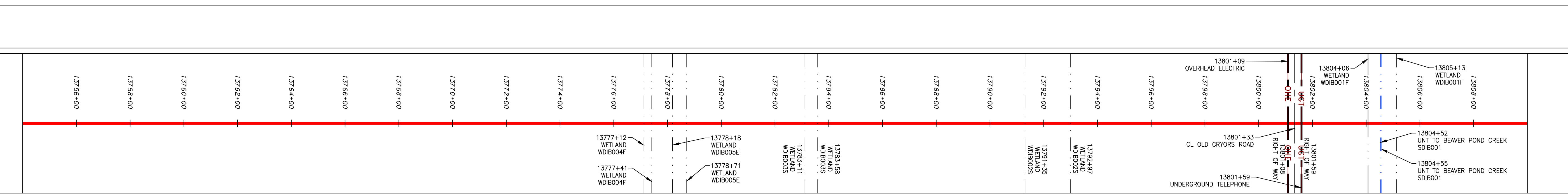
STATIONING & CONSTRUCTION LIMITS



PROPERTY OWNERSHIP



STRING VIEW BAND



**LEGEND**

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

**NOTES:**

- COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY - UTM WITH NAD83 DATUM, ZONE 17, U.S. 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 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.
- 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 AREA.
- BELTED SILT RETENTION FENCE (BSRF) 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 INSTRUCTOR.
- BELTED SILT RETENTION FENCE SHALL BE PLACED IN AREAS OF STEEP SLOPES 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 MATING SHALL BE PLACED IN AREAS OF STEEP SLOPES 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 WILL BE PROVIDED FOR ROADS IN CATEGORIES 3 AND 4.
- 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 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 ENVIRONMENTAL 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.

REVISIONS

NO.	DATE	BY	APPD.	DESCRIPTION

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

42" AP-1 PIPELINE  
 CONSTRUCTION ALIGNMENT STA. 13754+00 TO 13810+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: SAQ  
 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

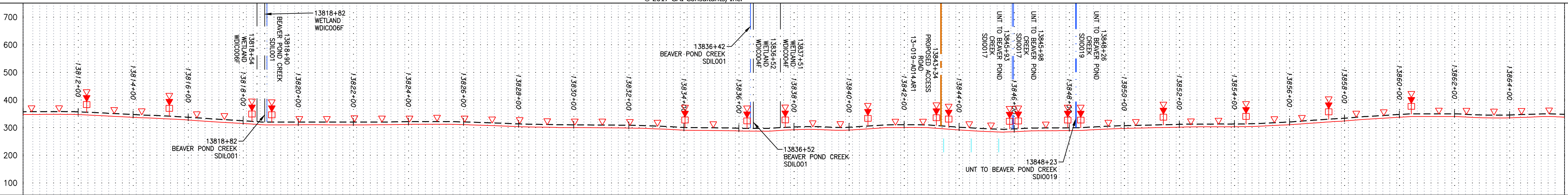
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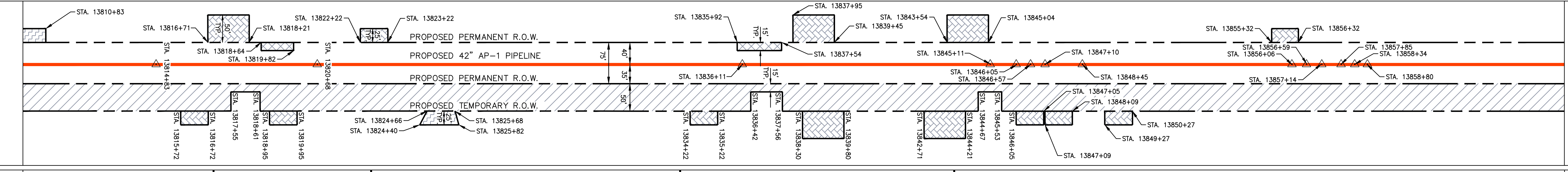


NOTE: STATIONING SHOWN ON THE DRAWING IS BASED ON SLOPE MEASUREMENTS.

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

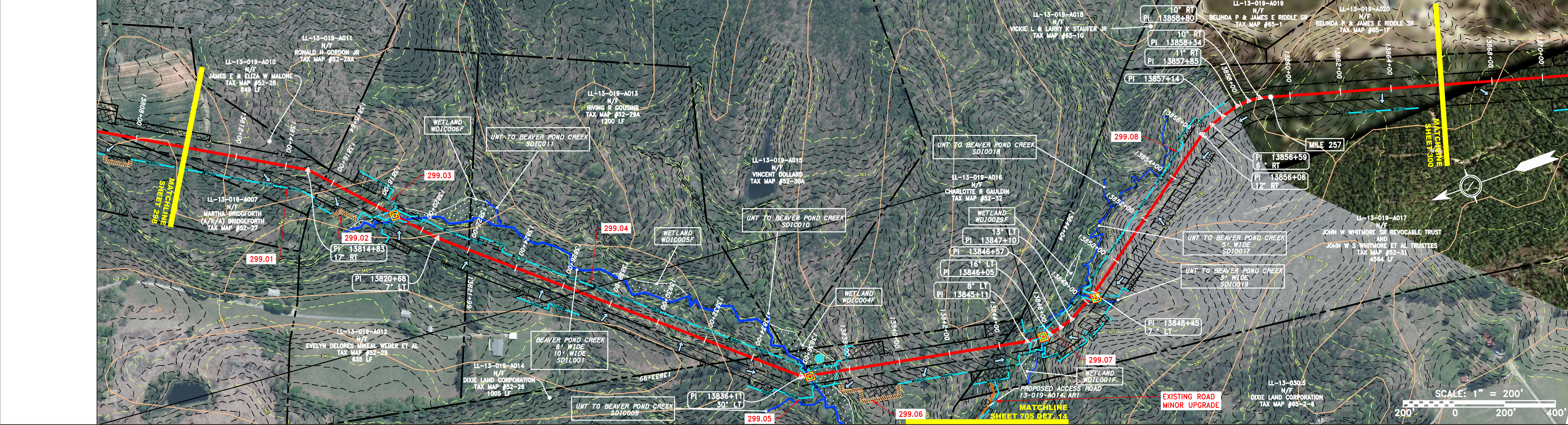


STATIONING & CONSTRUCTION LIMITS

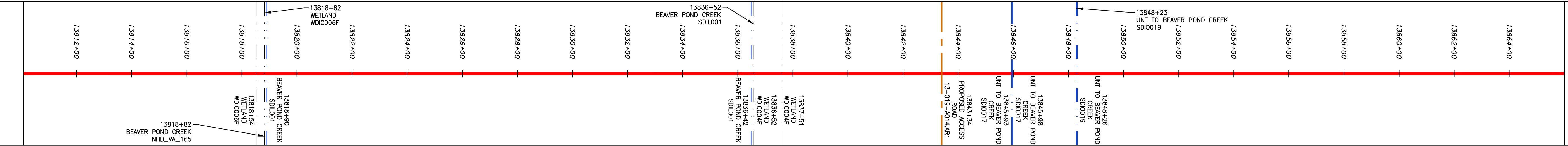


PROPERTY OWNERSHIP

13807+15	LL-13-019-A010 N/F JAMES E & ELIZA W MALONE TAX MAP #52-28 849 LF	13815+44	LL-13-019-A012 N/F EVELYN DELORES MIKEAL WEBER ET AL TAX MAP #52-29 635 LF	13821+99	LL-13-019-A013 N/F IRVING R COUSINS TAX MAP #52-29A 1200 LF	13833+99	LL-13-019-A014 N/F DIXIE LAND CORPORATION TAX MAP #52-26 1005 LF	13844+04	LL-13-019-A017 N/F JOHN W WHITMORE SR REVOCABLE TRUST AND JOHN W S WHITMORE ET AL TRUSTEES TAX MAP #52-31 4564 LF	13859+68
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STRING VIEW BAND



**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	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)				

▨	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
▨	USPWS STREAM CROSSING WITH ENHANCED CONTROLS	—	X	—	ORANGE SAFETY FENCE
▨	SLEEP	—	—	—	ROADSIDE DITCH
▨	SLOPE DIRECTION	—	—	—	SOIL TYPE
▨	CONSTRUCTION ENTRANCE WITH DITCH	—	—	—	AT (E)
▨	CULVERT AS NEEDED	—	—	—	30-58%
▨	CULVERT/WATERBAR	—	—	—	TYPICAL BIC SLOPE CATEGORY

**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 AND SEDIMENTATION CONTROL ELEMENTS MAY BE SHOWN OUTSIDE OF THE WORK AREAS FOR CLARITY ONLY. ACTUAL INSTALLATION SHALL BE WITHIN THE WORK AREAS.
- BARRIER CONTROL ELEMENTS ARE SUBJECT TO CHANGE BASED ON FIELD CONDITIONS WITH APPROVAL FROM THE PROJECT ENVIRONMENTAL INSPECTOR.
- BELTED SILT RETENTION FENCE AND COMPOST FILTER SOCK SHALL BE INSTALLED PARALLEL TO CONTOUR TO EXTENT PRACTICABLE IN ACCORDANCE WITH STANDARD DETAIL. SEDIMENT TRAP SHALL BE INSTALLED AT THE DOWN-SLOPE END OF THE BARRIER CONTROL.
- BEST IN CLASS (BIC) STEEP SLOPE CATEGORY INFORMATION CAN BE FOUND IN THE APPENDIX OF THE STORMWATER POLLUTION PREVENTION PLAN.
- 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 FEATURES 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 SEDIMENTATION CONTROLS WILL BE PROVIDED FOR ROADS IN CATEGORIES 2, 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**

NO.	DATE	BY	CHKD.	APPD.	DESCRIPTION

**Professional Engineer**  
 Daniel R. Goldstein  
 Lic. No. 047436

**ERM**

42" AP-1 PIPELINE  
 CONSTRUCTION ALIGNMENT STA. 13810+00 TO 13866+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

**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 E299

299 OF 344

4/4/2017 3:15 PM

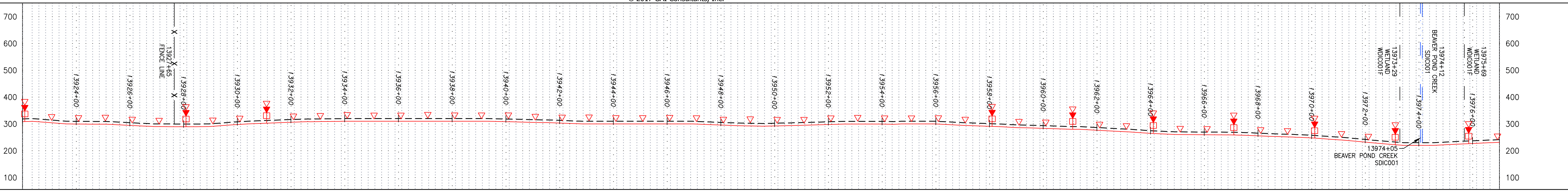




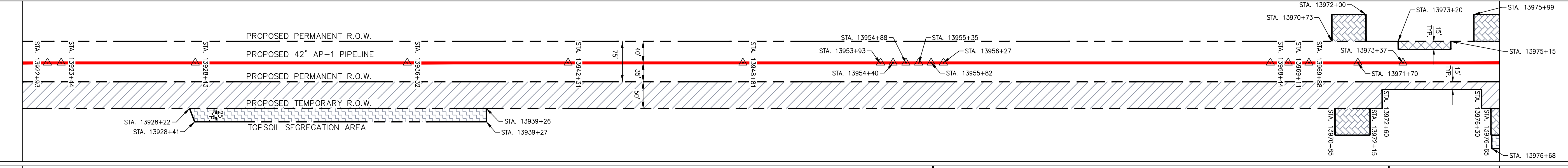


NOTE: STATIONING SHOWN ON THE DRAWING IS BASED ON SLOPE MEASUREMENTS.

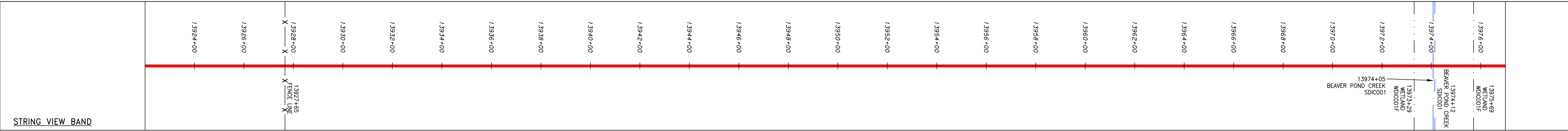
PROFILE VIEW  
 HORZ: 1" = 200'  
 VERT: 1" = 200'



STATIONING & CONSTRUCTION LIMITS



PROPERTY OWNERSHIP



**LEGEND**

— X — X —	PROPERTY LINE	— E —	STORM SEWER	[Hatched Box]	EXTRA WORK SPACE	[Hatched Box]	TOPSOIL SEGREGATION AREA	[Triangle]	PERMANENT WATERBAR/SLOPE BREAKER	— LOD —	LIMIT OF DISTURBANCE
— X — X —	FENCE	— W —	UNDERGROUND ELECTRIC	[Hatched Box]	AREA OF NO DISTURBANCE	[Hatched Box]	PROPOSED TEMPORARY R.O.W.	[Triangle]	TEMPORARY WATERBAR/SLOPE BREAKER	— BSRF —	BELTED SILT RETENTION FENCE (BSRF)
— G — G —	STREAM	— S —	WATER LINE	[Hatched Box]	WETLAND	[Hatched Box]	UTILITY POLE	[Triangle]	TRENCH BREAKER/PLUG	[Dashed Line]	COMPOST FILTER SOCK
— G — G —	EXISTING GAS PIPELINE	— S —	SANITARY SEWER	[Hatched Box]	WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)	[Hatched Box]		[Triangle]	STREAM CROSSING	[Dashed Line]	SEDIMENT BARRIER IDENTIFICATION
— OH —	OVERHEAD UTILITY LINES	— S —	EDGE OF GRAVEL	[Hatched Box]				[Triangle]	USFWS STREAM CROSSING WITH ENHANCED CONTROLS	[Dashed Line]	ORANGE SAFETY FENCE
— A — A —	ACCESS ROAD	— S —	PROPOSED PERMANENT EASEMENT	[Hatched Box]				[Triangle]	SEEP	[Dashed Line]	ROADSIDE DITCH
— G — G —	PROPOSED GAS PIPELINE	— S —	PROPOSED GAS PIPELINE (NO GROUND SURVEY)	[Hatched Box]				[Triangle]	SLOPE DIRECTION	[Dashed Line]	SOIL TYPE
		— S —		[Hatched Box]				[Triangle]	CONSTRUCTION ENTRANCE WITH DITCH	[Dashed Line]	TYPICAL BIC SLOPE CATEGORY
		— S —		[Hatched Box]				[Triangle]	CULVERT AS NEEDED	[Dashed Line]	SLOPE INCLINATION
		— S —		[Hatched Box]				[Triangle]	CULVERT/WATERBAR	[Dashed Line]	

NOTE: THE PE SEAL AND SIGNATURE APPLIES ONLY TO THE E&S CONTROL DESIGN COMPLETED BY ERM (SEE NOTE 12).

NO.	DATE	BY	CHKD.	APPD.	DESCRIPTION

REVISIONS

PROFESSIONAL ENGINEER  
 DANIEL R. GOLDSTEIN  
 Lic. No. 047436

ERM

PROJECT NO./DASH NO.  
 C140468

TASK NO. SUB TASK NO.  
 005 00

GROUP ID DRAWING NO.  
 D E301

301 OF 344

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

gai consultants

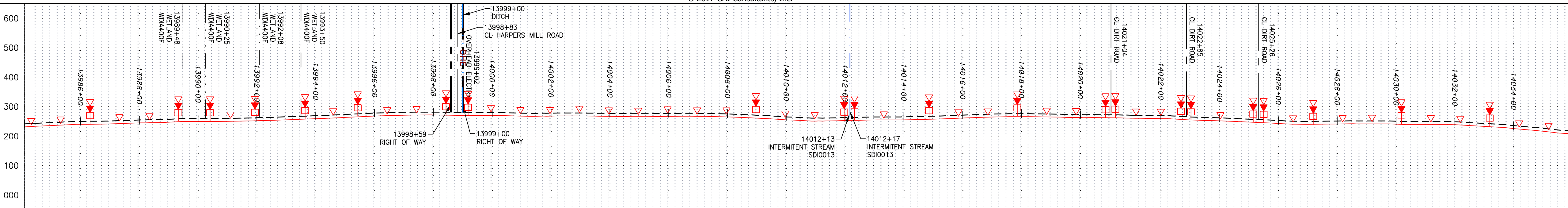
SOUTHPOINTE OFFICE  
 6000 TOWN CENTER BLVD.  
 CANONSBURG, PA 15317  
 724-873-3545

PROJECT NO./DASH NO. C140468
TASK NO. SUB TASK NO. 005 00
GROUP ID DRAWING NO. D E301
301 OF 344

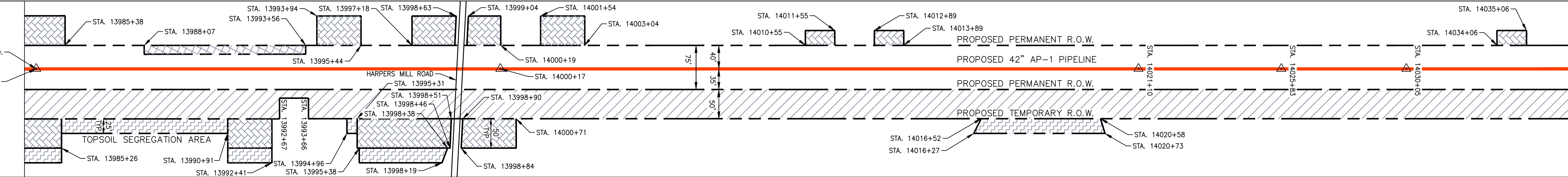


NOTE: STATIONING SHOWN ON THE DRAWING IS BASED ON SLOPE MEASUREMENTS.

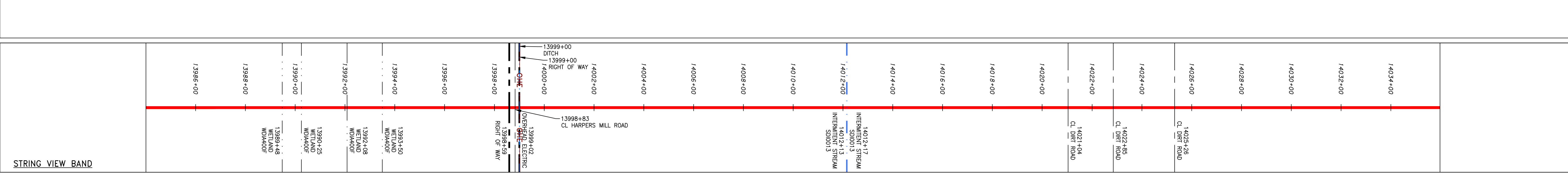
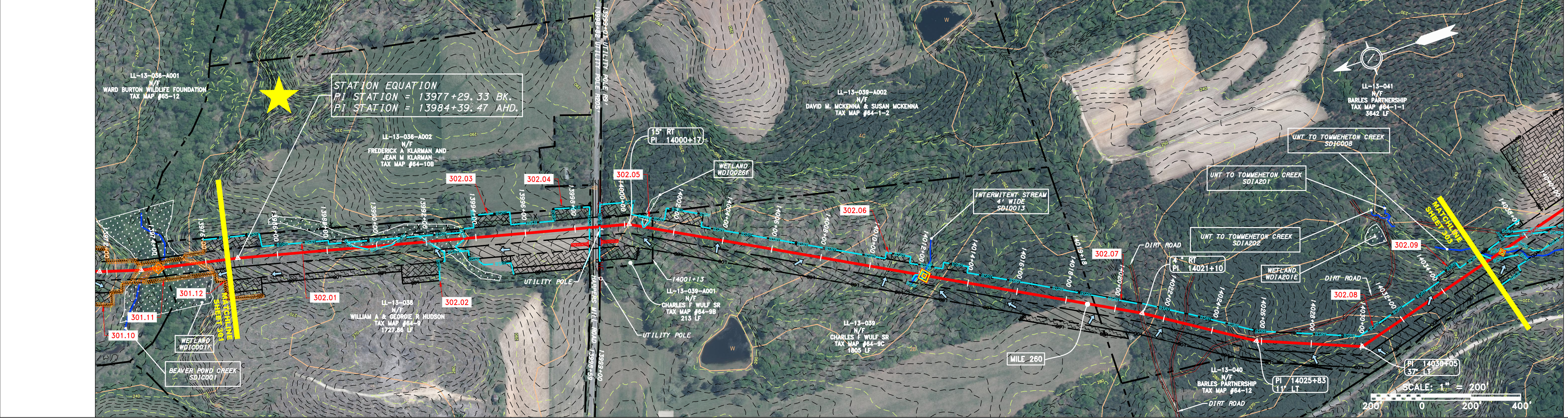
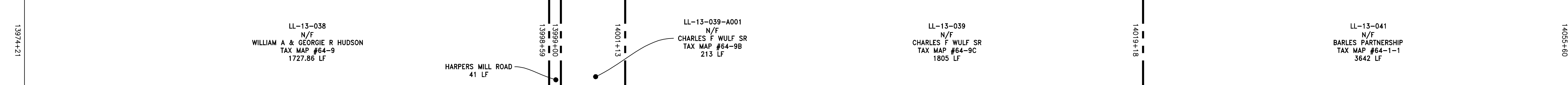
PROFILE VIEW  
 HORZ: 1" = 200'  
 VERT: 1" = 200'



STATIONING & CONSTRUCTION LIMITS



PROPERTY OWNERSHIP



**LEGEND**

—	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	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.
- IMAGERY TAKEN FROM GOOGLE EARTH.
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- 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 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.
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NO.	DATE	BY	CHKD.	APPD.	DESCRIPTION

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

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

CONSTRUCTION ALIGNMENT STA. 13977+00 TO 14036+00

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



PROJECT NO./DASH NO.	C140468
TASK NO. SUB TASK NO.	005 00
GROUP ID DRAWING NO.	D E302
302 OF 344	

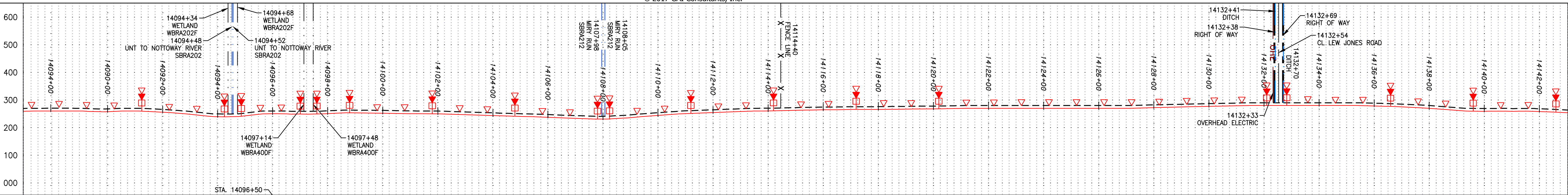




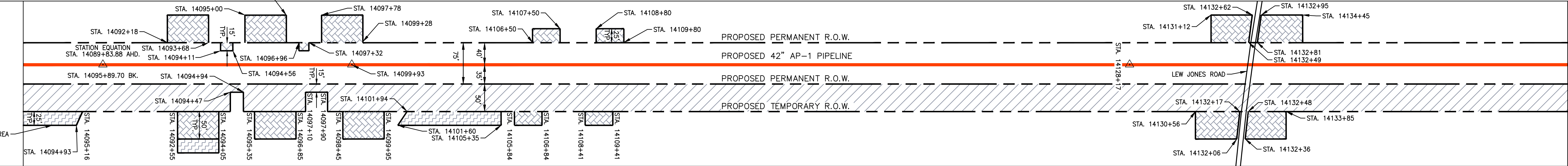


NOTE: STATIONING SHOWN ON THE DRAWING IS BASED ON SLOPE MEASUREMENTS.

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



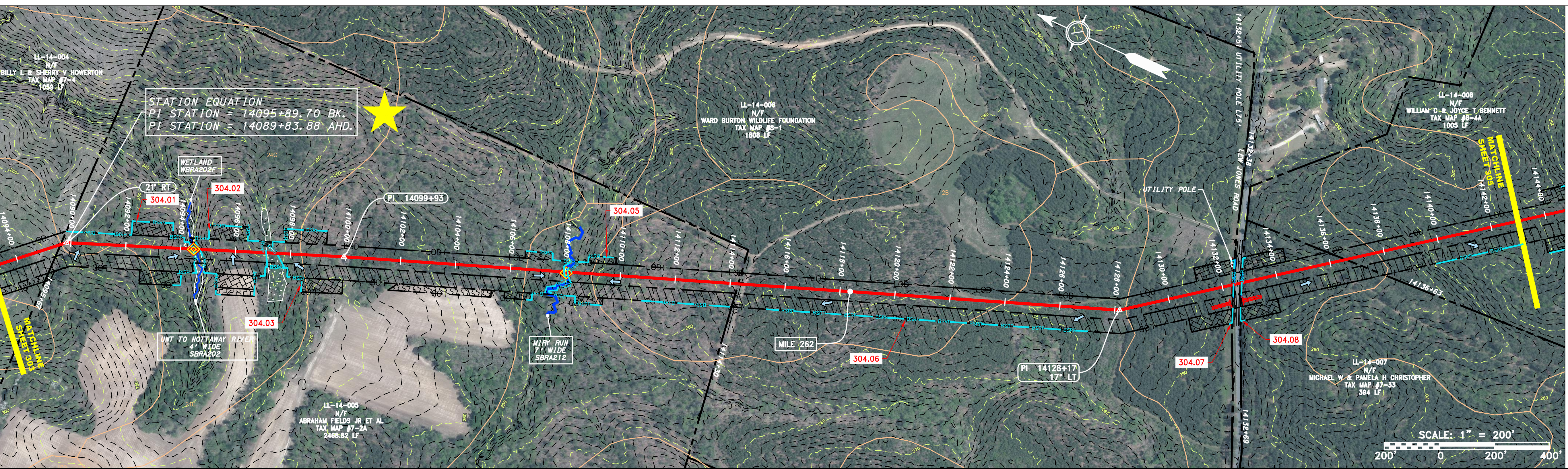
TOPSOIL SEGREGATION AREA  
 STATIONING &  
 CONSTRUCTION LIMITS



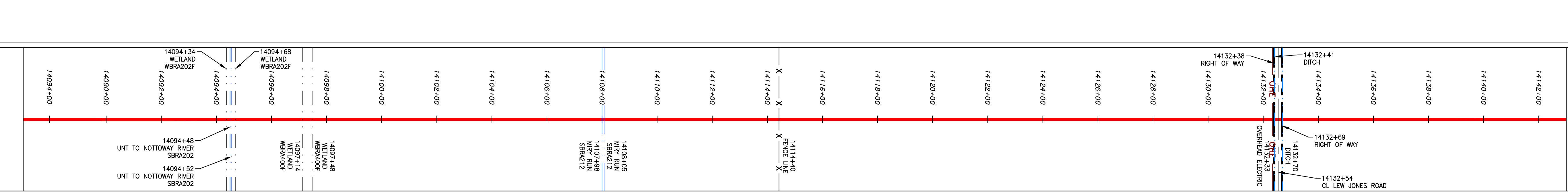
PROPERTY OWNERSHIP



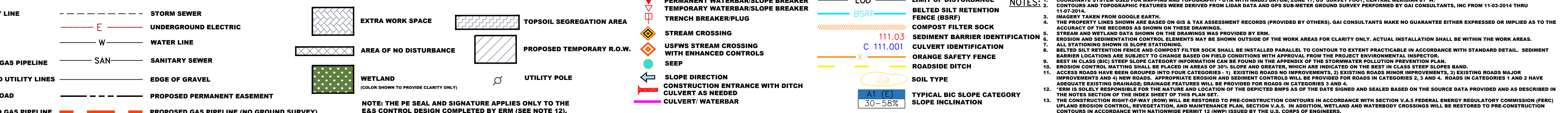
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 PI STATION = 14089+83.88 AHD.



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.  
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 9. BEST IN CLASS (BIC) STEEP SLOPE CATEGORY INFORMATION CAN BE FOUND IN THE APPENDIX OF THE STORMWATER POLLUTION PREVENTION PLAN.  
 10. EROSION CONTROL MATING SHALL BE PLACED IN AREAS OF 3% SLOPE AND GREATER, WHICH ARE INDICATED ON THE BEST IN CLASS STEEP SLOPE BAND.  
 11. 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.  
 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 INDEX 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) 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

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
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