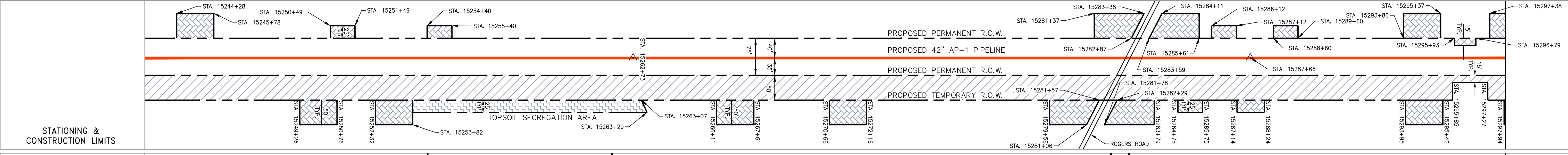
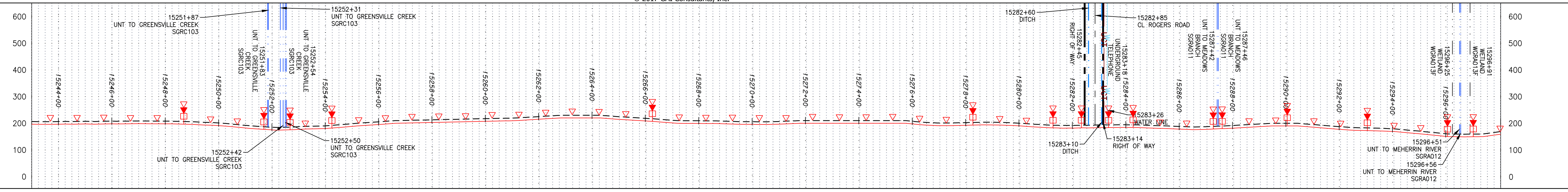
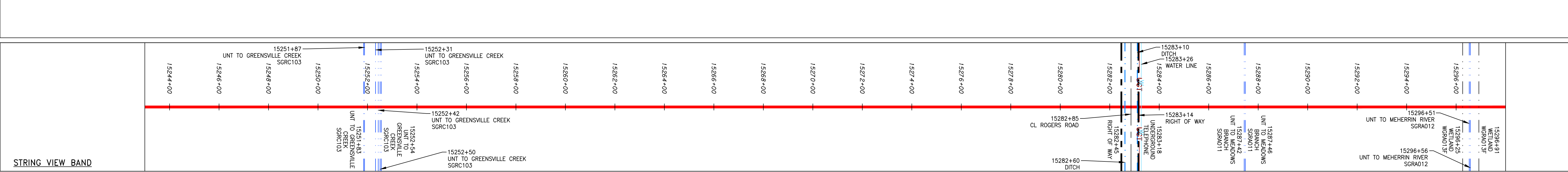
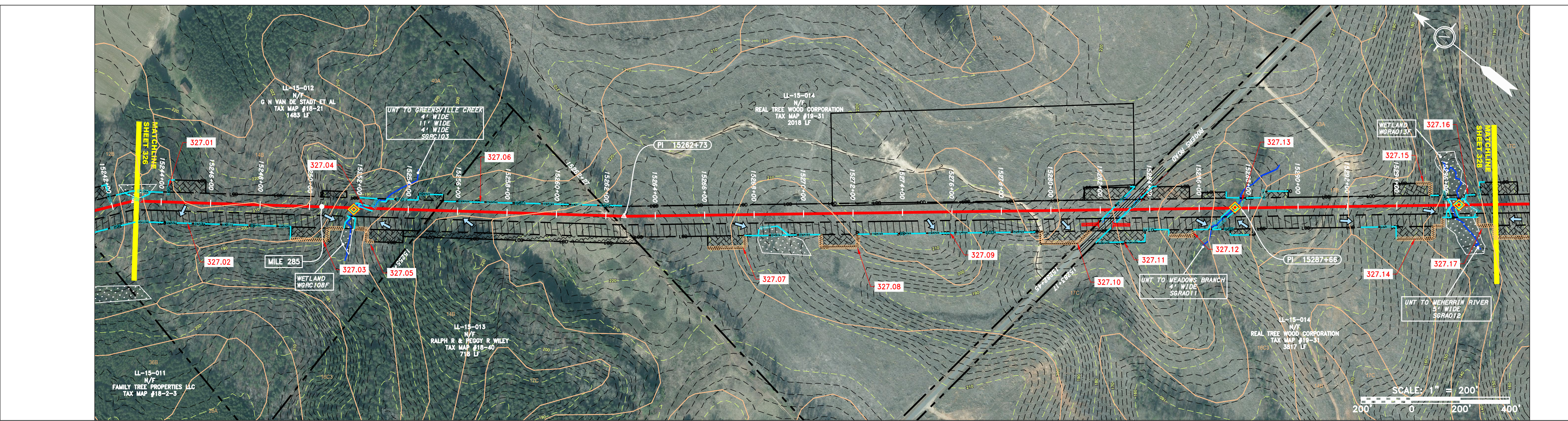


NOTE: STATIONING SHOWN ON THE DRAWING IS BASED ON SLOPE MEASUREMENTS.

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



PROPERTY OWNERSHIP	ADDRESS	AREA
LL-15-012 N/F G N VAN DE STADT ET AL TAX MAP #18-21 1483 LF	15244+00 to 15255+09	15244+00 to 15255+09
LL-15-013 N/F RALPH R & PEGGY R WILEY TAX MAP #18-40 718 LF	15255+09 to 15262+27	15255+09 to 15262+27
LL-15-014 N/F REAL TREE WOOD CORPORATION TAX MAP #19-31 2018 LF	15262+27 to 15281+06	15262+27 to 15281+06
LL-15-014 N/F REAL TREE WOOD CORPORATION TAX MAP #19-31 3817 LF	15281+06 to 15296+00	15281+06 to 15296+00



LEGEND

— X — X —	PROPERTY LINE	— E —	STORM SEWER	[Hatched Box]	EXTRA WORK SPACE	[Hatched Box]	TOPSOIL SEGREGATION AREA	[Red Triangle]	PERMANENT WATERBAR/SLOPE BREAKER	[Blue Line]	LOD	LIMIT OF DISTURBANCE
— G — G —	EXISTING GAS PIPELINE	— W —	WATER LINE	[Dotted Box]	AREA OF NO DISTURBANCE	[Hatched Box]	PROPOSED TEMPORARY R.O.W.	[Yellow Diamond]	STREAM CROSSING	[Blue Line]	BSRF	BELTED SILT RETENTION FENCE (BSRF)
— OH —	OVERHEAD UTILITY LINES	— SAN —	SANITARY SEWER	[Green Box]	WETLAND	[Hatched Box]	UTILITY POLE	[Blue Diamond]	USPWS STREAM CROSSING WITH ENHANCED CONTROLS	[Blue Line]	111.03	COMPOST FILTER SOCK
—	PROPOSED GAS PIPELINE	—	PROPOSED PERMANENT EASEMENT	[Green Box]	WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)	[Hatched Box]		[Blue Diamond]	SLEEP	[Blue Line]	C 111.001	SEDIMENT BARRIER IDENTIFICATION
—	PROPOSED GAS PIPELINE (NO GROUND SURVEY)	—	EDGE OF GRAVEL	[Green Box]		[Hatched Box]		[Blue Diamond]	CONSTRUCTION ENTRANCE WITH DITCH	[Blue Line]	A1 (E)	CULVERT IDENTIFICATION
—		—		[Green Box]		[Hatched Box]		[Blue Diamond]	CULVERT/WATERBAR	[Blue Line]	30-58%	ORANGE SAFETY FENCE
				[Green Box]		[Hatched Box]		[Blue Diamond]		[Blue Line]		ROADSIDE DITCH
				[Green Box]		[Hatched Box]		[Blue Diamond]		[Blue Line]		SOIL TYPE

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

NOTES:

- COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY - UTM WITH NAD83 DATUM, ZONE 17, US SURVEY FOOT, CENTRAL MERIDIAN 81° W.
- CONTOURS AND TOPOGRAPHIC FEATURES WERE DERIVED FROM LIDAR DATA AND GPS SUB-METER GROUND SURVEY PERFORMED BY GAI CONSULTANTS, INC FROM 11-03-2014 THRU 11-07-2014.
- IMAGERY TAKEN FROM GOOGLE EARTH.
- THE PROPERTY LINES SHOWN ON THE DRAWINGS WERE PROVIDED BY ERM.
- 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.
- BELTED SILT RETENTION FENCE AND COMPOST FILTER SOCK SHALL BE INSTALLED PARALLEL TO CONTOUR TO EXTENT PRACTICABLE IN ACCORDANCE WITH STANDARD DETAIL. SEDIMENT BARRIER LOCATIONS ARE SUBJECT TO CHANGE BASED ON FIELD CONDITIONS WITH APPROVAL FROM THE PROJECT ENVIRONMENTAL INSPECTOR.
- BEST IN CLASS (BIC) STEEP SLOPE CATEGORY INFORMATION CAN BE FOUND IN THE APPENDIX OF THE STORMWATER POLLUTION PREVENTION PLAN.
- EROSION CONTROL MATING SHALL BE PLACED IN AREAS OF 30% SLOPE AND GREATER, WHICH ARE INDICATED ON THE BEST IN CLASS STEEP 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.

REVISIONS

NO.	DATE	BY	DESCRIPTION

Professional Engineer
 Daniel R. Goldstein
 Lic No. 047436

ERM

42" AP-1 PIPELINE
 CONSTRUCTION ALIGNMENT STA. 15243+00 TO 15298+00
 GREENVILLE COUNTY, VIRGINIA

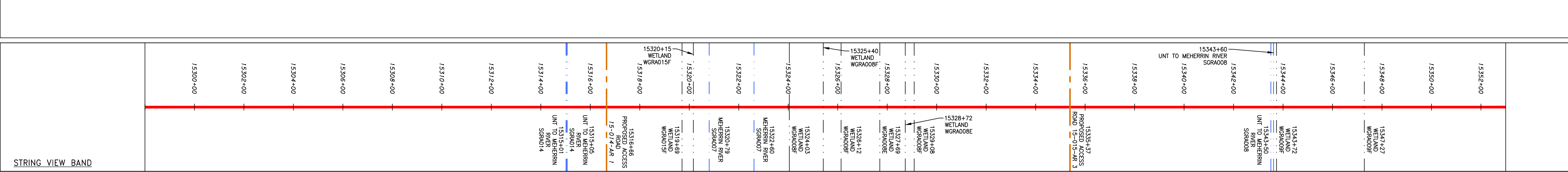
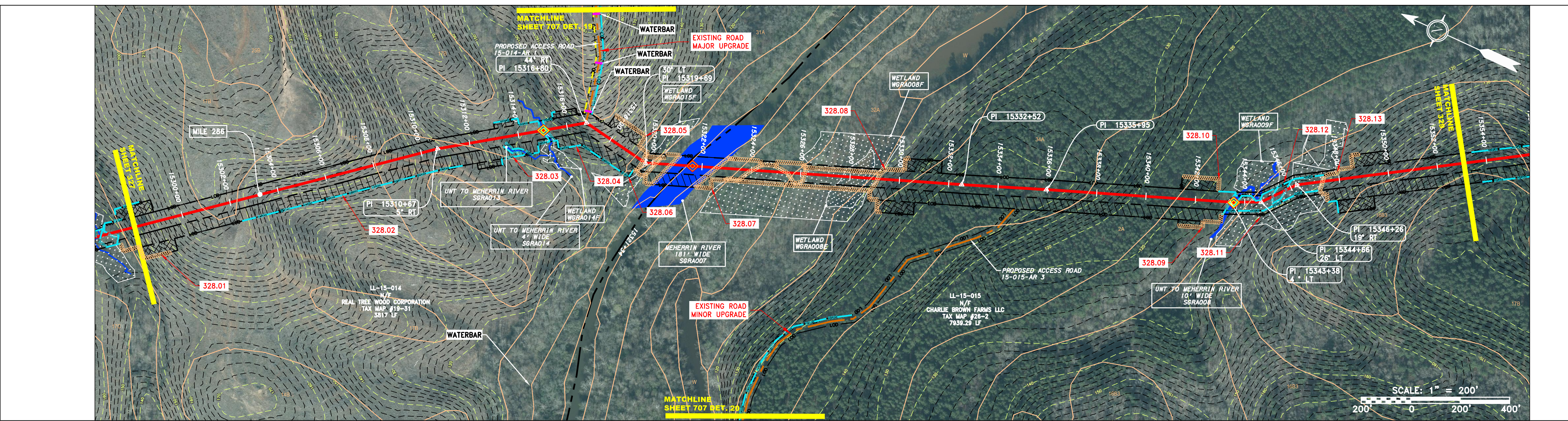
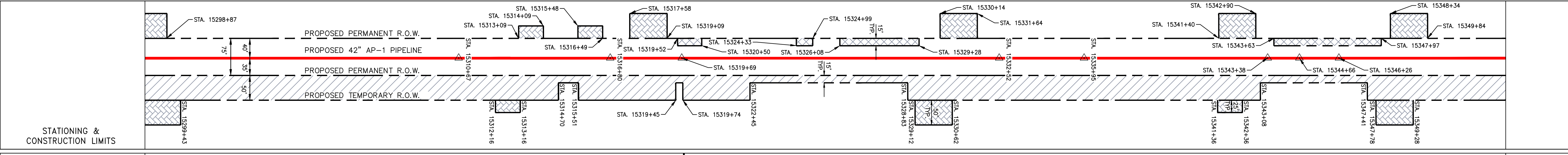
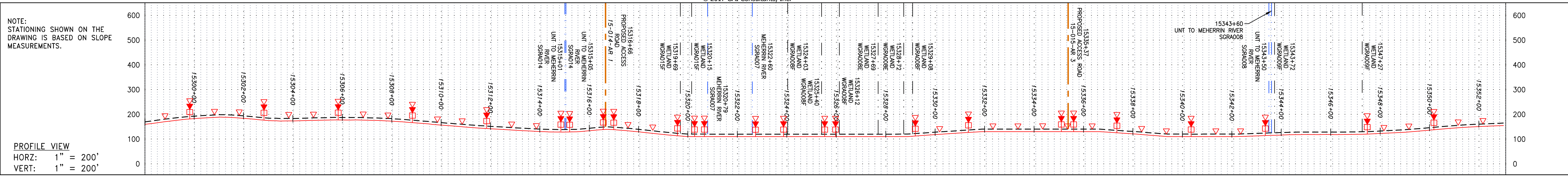
ATLANTIC COAST PIPELINE, LLC
 C/O DOMINION TRANSMISSION, INC.
 925 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330

SCALE: AS SHOWN
 DATE: 11/23/2016
 DRAWN: 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 E327
327 OF 344	



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. 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. STREAM AND WETLAND DATA SHOWN ON THE DRAWINGS MAY BE SHOWN OUTSIDE OF THE WORK AREAS FOR CLARITY ONLY. ACTUAL INSTALLATION SHALL BE WITHIN THE WORK AREAS. 5. ACCURACY OF THE RECORDS AS SHOWN ON THESE DRAWINGS. 6. ALL STATIONING SHOWN IS SLOPE STATIONING. 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. 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 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 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. 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.	▨	TRENCH BREAKER/PLUG	—	BSRF	—	BELTED SILT RETENTION FENCE (BSRF)	
—	STREAM	—W—	WATER LINE	▨	WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)	▨	UTILITY POLE	▨	STREAM CROSSING	—	111.03	—	COMPOST FILTER SOCK	
—G—	EXISTING GAS PIPELINE	—SAN—	SANITARY SEWER	▨	WETLAND	▨	WETLAND	▨	USFWS STREAM CROSSING WITH ENHANCED CONTROLS	—	C 111.001	—	CULVERT IDENTIFICATION	
—OH—	OVERHEAD UTILITY LINES	—	EDGE OF GRAVEL	▨	WETLAND	▨	WETLAND	▨	SEEP	—	X	—	ORANGE SAFETY FENCE	
—	ACCESS ROAD	—	PROPOSED PERMANENT EASEMENT	▨	WETLAND	▨	WETLAND	▨	SLOPE DIRECTION	—	—	—	ROADSIDE DITCH	
—	PROPOSED GAS PIPELINE	—	PROPOSED GAS PIPELINE (NO GROUND SURVEY)	▨	WETLAND	▨	WETLAND	▨	CONSTRUCTION ENTRANCE WITH DITCH	—	—	—	SOIL TYPE	
				▨	WETLAND	▨	WETLAND	▨	CULVERT/WATERBAR	—	—	—	TYPICAL BIC SLOPE CATEGORY SLOPE INCLINATION	
				▨	WETLAND	▨	WETLAND	▨		—	—	—		
				▨	WETLAND	▨	WETLAND	▨		—	—	—		
				▨	WETLAND	▨	WETLAND	▨		—	—	—		
				▨	WETLAND	▨	WETLAND	▨		—	—	—		

NO.	DATE	BY	CHKD.	APPD.	DESCRIPTION
					REVISIONS

Daniel R. Goldstein
 PROFESSIONAL ENGINEER
 ERM

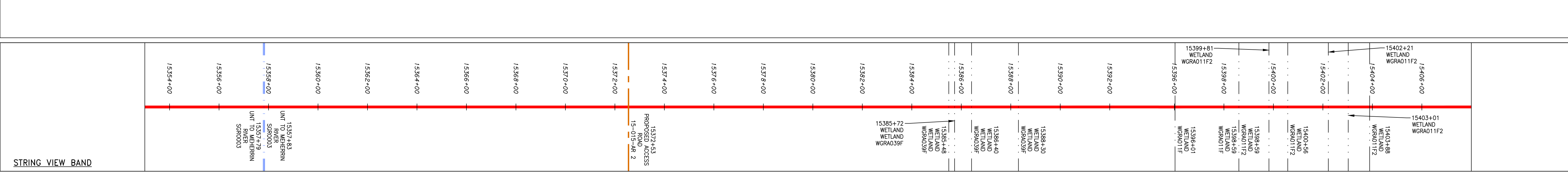
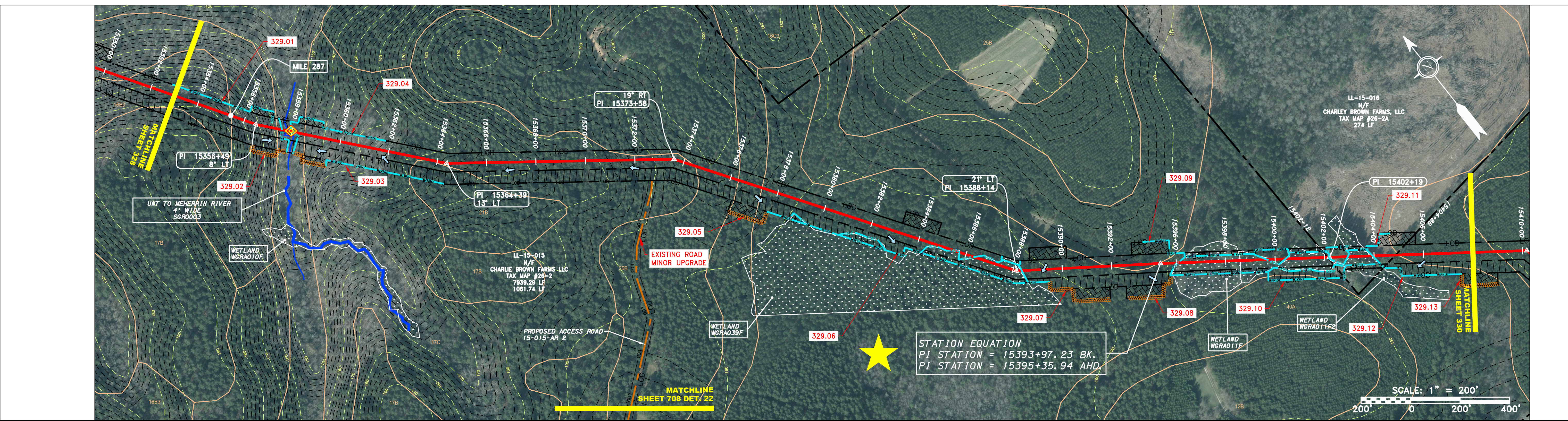
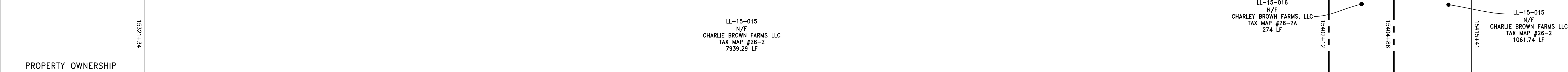
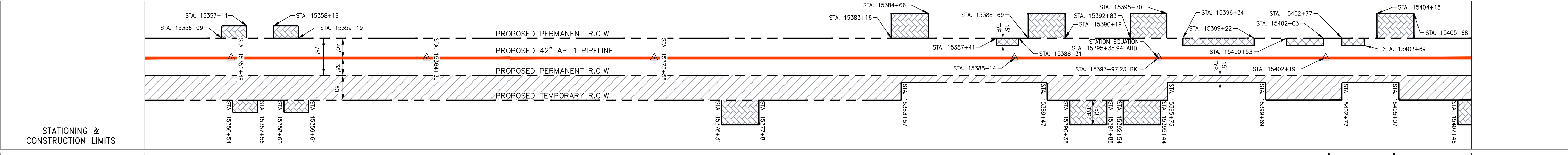
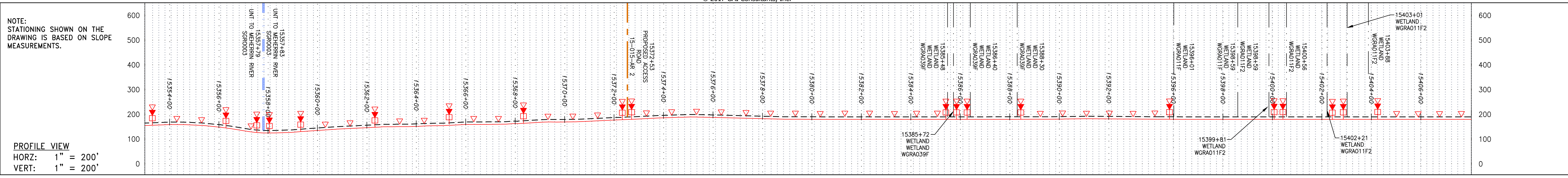
ATLANTIC COAST PIPELINE, LLC
 C/O DOMINION TRANSMISSION, INC.
 925 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330

CONSTRUCTION ALIGNMENT STA. 15298+00 TO 15353+00
 GREENSVILLE COUNTY, VIRGINIA

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

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

PROJECT NO./DASH NO.	C140468
TASK NO.	005
SUB TASK NO.	00
GROUP ID	D
DRAWING NO.	E328
	328 OF 344



LEGEND

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

NOTES:

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- 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.
- PROPERTY LINES SHOWN ARE BASED ON GIS & TAX ASSESSMENT RECORDS (PROVIDED BY OTHERS). GAI CONSULTANTS MAKE NO GUARANTEE EITHER EXPRESSED OR IMPLIED AS TO THE ACCURACY OF THE RECORDS AS SHOWN ON THESE DRAWINGS.
- STREAM AND WETLAND DATA SHOWN ON THE DRAWINGS WAS PROVIDED BY ERM.
- EROSION AND SEDIMENTATION CONTROL ELEMENTS MAY BE SHOWN OUTSIDE OF THE WORK AREAS FOR CLARITY ONLY. ACTUAL INSTALLATION SHALL BE WITHIN THE WORK AREAS.
- ALL STATIONING SHOWN IS SLOPE STATIONING.
- BELTED SILT RETENTION FENCE AND COMPOST FILTER SOCK SHALL BE INSTALLED PARALLEL TO CONTOUR TO EXTENT PRACTICABLE IN ACCORDANCE WITH STANDARD DETAIL. SEDIMENT BARRIER LOCATIONS ARE SUBJECT TO CHANGE BASED ON FIELD CONDITIONS WITH APPROVAL FROM THE PROJECT ENVIRONMENTAL INSPECTOR.
- BEST IN CLASS (BIC) STEEP SLOPE CATEGORY INFORMATION CAN BE FOUND IN THE APPENDIX OF THE STORMWATER POLLUTION PREVENTION PLAN.
- EROSION CONTROL MATING SHALL BE PLACED IN AREAS OF 30% SLOPE AND GREATER, WHICH ARE INDICATED ON THE BEST IN CLASS STEEP SLOPES BAND.
- ACCESS ROADS HAVE BEEN GROUPED INTO FOUR CATEGORIES - 1) EXISTING ROADS NO IMPROVEMENTS, 2) EXISTING ROADS MINOR IMPROVEMENTS, 3) EXISTING ROADS MAJOR IMPROVEMENTS AND 4) NEW ROADS. APPROPRIATE EROSION AND SEDIMENT CONTROLS WILL BE PROVIDED FOR ROADS IN CATEGORIES 2, 3 AND 4. ROADS IN CATEGORIES 1 AND 2 HAVE ADEQUATE EXISTING DRAINAGE. DRAINAGE FEATURES WILL BE PROVIDED FOR ROADS IN CATEGORIES 3 AND 4.
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REVISIONS

NO.	DATE	BY	DESCRIPTION

DANIEL R. GOLDSTEIN
 Lic No. 047436
ERM

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

42" AP-1 PIPELINE
CONSTRUCTION ALIGNMENT STA. 15353+00 TO 15408+00

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

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

PROJECT NO./DASH NO.
C140468

TASK NO. SUB TASK NO.
 005 00

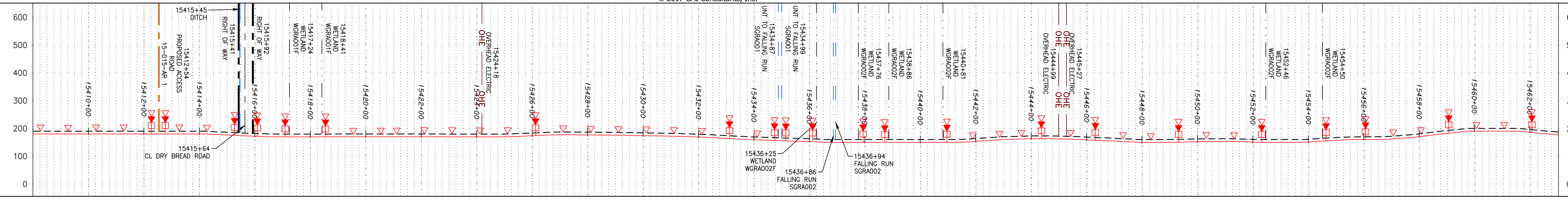
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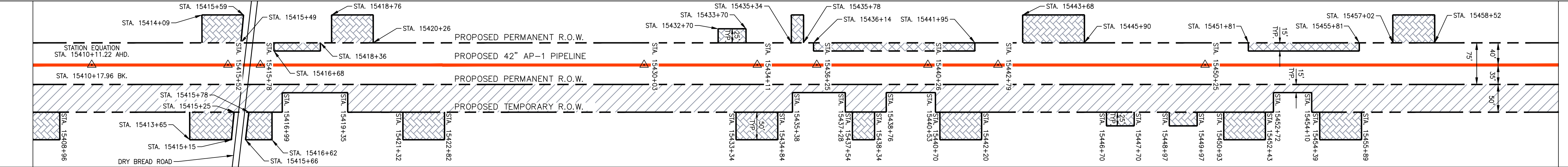
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NOTE: STATIONING SHOWN ON THE DRAWING IS BASED ON SLOPE MEASUREMENTS.

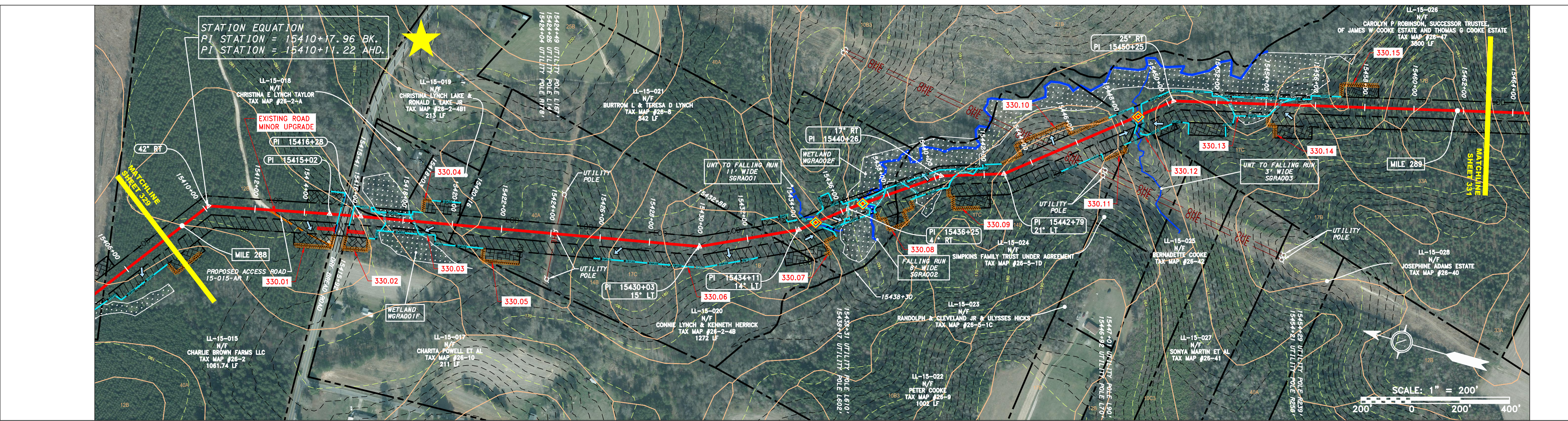
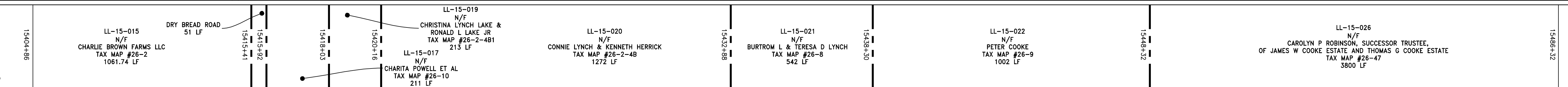
PROFILE VIEW
 HORZ: 1" = 200'
 VERT: 1" = 200'



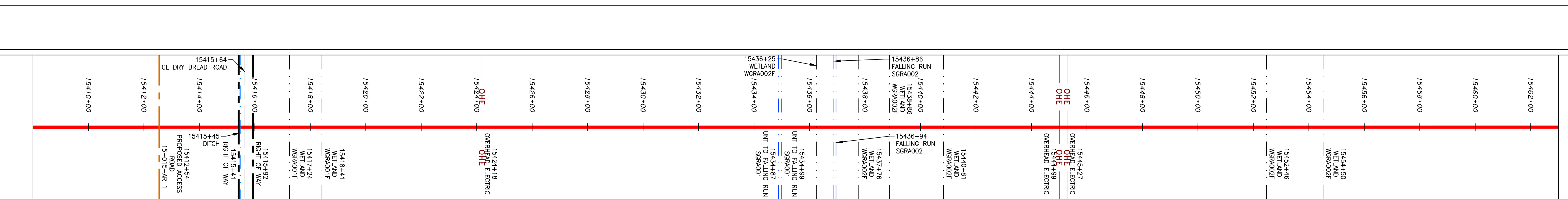
STATIONING & CONSTRUCTION LIMITS



PROPERTY OWNERSHIP



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	—	UTILITY POLE
G G	EXISTING GAS PIPELINE	SAN	SANITARY SEWER	—	WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)	—	
OH	OVERHEAD UTILITY LINES	—	EDGE OF GRAVEL	—		—	
—	ACCESS ROAD	—	PROPOSED PERMANENT EASEMENT	—		—	
—	PROPOSED GAS PIPELINE	—	PROPOSED GAS PIPELINE (NO GROUND SURVEY)	—		—	

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

NOTES:

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. 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. BARRIER LOCATIONS ARE SUBJECT TO CHANGE BASED ON FIELD CONDITIONS WITH APPROVAL FROM THE PROJECT ENVIRONMENTAL INSPECTOR.
8. 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 SHALL BE PLACED IN AREAS OF 30% SLOPE AND GREATER, WHICH ARE INDICATED ON THE BEST IN CLASS STEEP SLOPE BAND.
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 SEDIMENT CONTROL WILL BE PROVIDED FOR ROADS IN CATEGORIES 2, 3 AND 4. ROADS IN CATEGORIES 1 AND 2 HAVE ADEQUATE EXISTING DRAINAGE. DRAINAGE FEATURES WILL BE PROVIDED FOR ROADS IN CATEGORIES 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) UP-LAND EROSION CONTROL, VEGETATION, 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	APP'D.	DESCRIPTION

Daniel R. Goldstein
 PROFESSIONAL ENGINEER
 ERM

42" AP-1 PIPELINE
 CONSTRUCTION ALIGNMENT STA. 15408+00 TO 15463+00
 ATLANTIC COAST PIPELINE, LLC
 C/O DOMINION TRANSMISSION, INC.
 925 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330
 GREENSVILLE 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

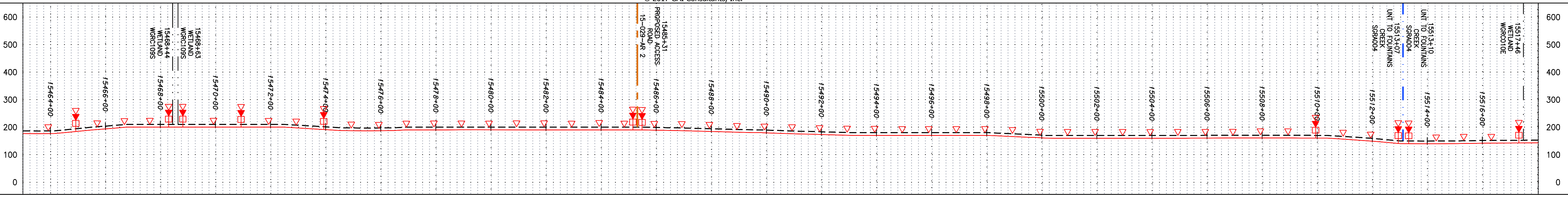
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330 OF 344

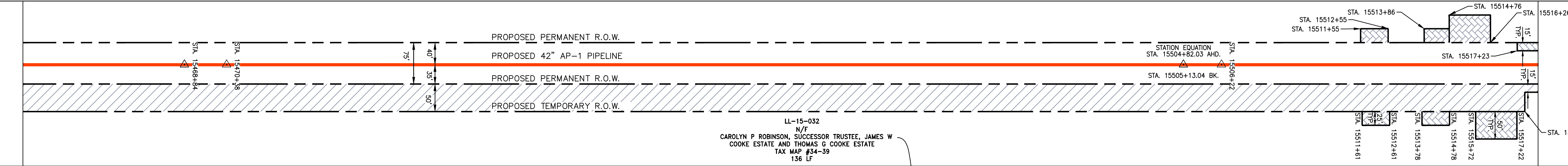
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NOTE: STATIONING SHOWN ON THE DRAWING IS BASED ON SLOPE MEASUREMENTS.

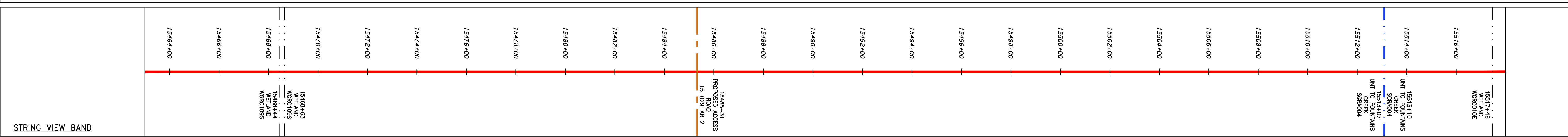
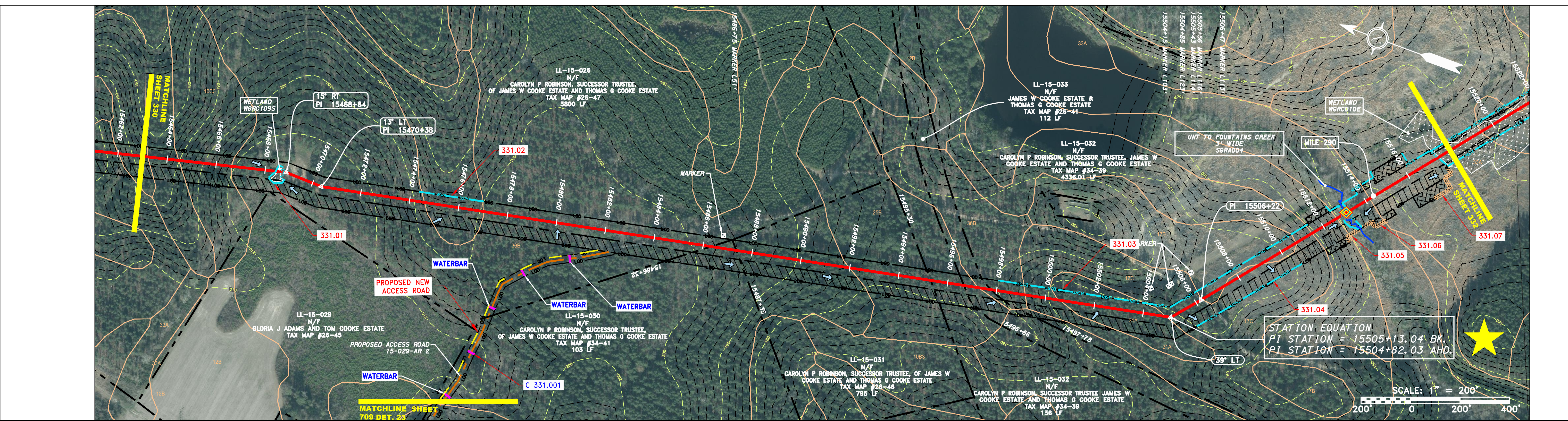
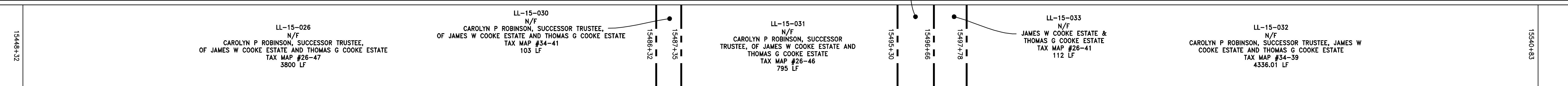
PROFILE VIEW
 HORZ: 1" = 200'
 VERT: 1" = 200'



STATIONING & CONSTRUCTION LIMITS



PROPERTY OWNERSHIP



LEGEND

— X — X —	PROPERTY LINE	— E —	STORM SEWER	— W —	UNDERGROUND ELECTRIC	— G —	EXISTING GAS PIPELINE	— SAN —	SANITARY SEWER	— OH —	OVERHEAD UTILITY LINES	— A —	ACCESS ROAD	— P —	PROPOSED PERMANENT EASEMENT	— G —	PROPOSED GAS PIPELINE (NO GROUND SURVEY)
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

NOTES:

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- 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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NO.	DATE	BY	CHKD.	APPD.	DESCRIPTION

REVISIONS

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. 15463+00 TO 15518+00
 GREENSVILLE 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

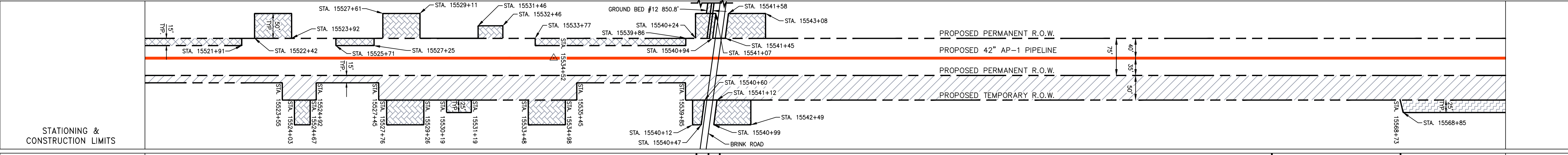
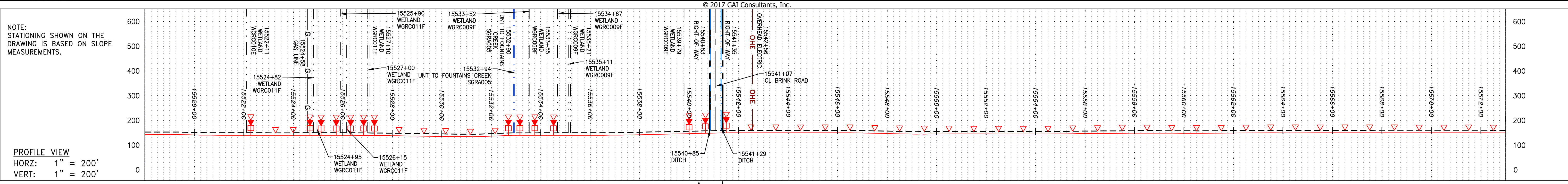
PROJECT NO./DASH NO.
 C140468

TASK NO. SUB TASK NO.
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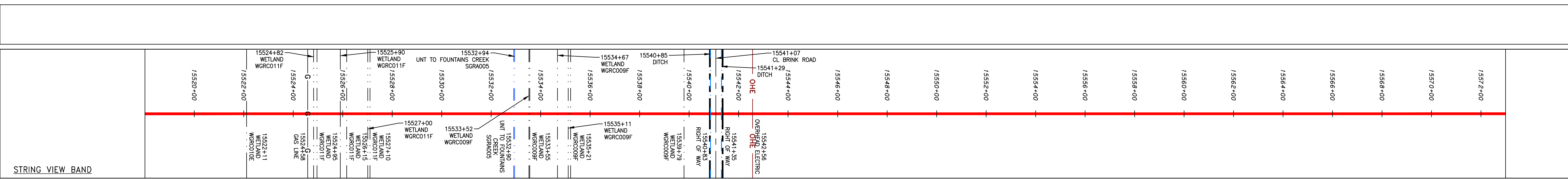
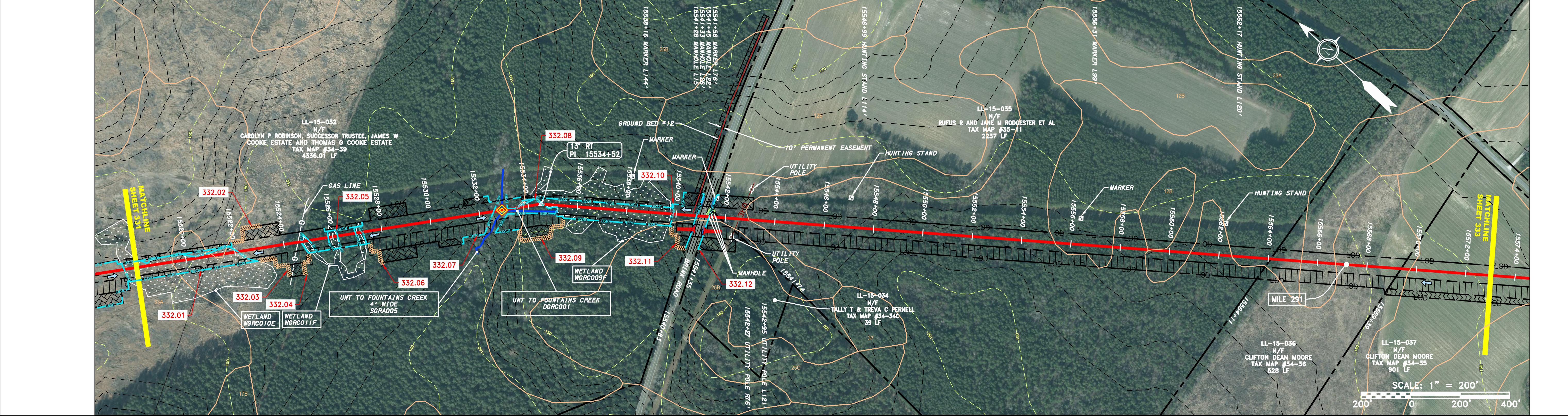
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331 OF 344

4/21/2017 1:20 PM



PROPERTY OWNERSHIP	ADDRESS	OWNER	TAX MAP	ACRES
15497+78	LL-15-032	N/F CAROLYN P. ROBINSON, SUCCESSOR TRUSTEE, JAMES W. COOKE ESTATE AND THOMAS G. COOKE ESTATE	TAX MAP #34-39	4336.01 LF
15540+85	LL-15-034	N/F TALLY T & TREVA C. PERNELL	TAX MAP #34-34C	39 LF
15541+07	LL-15-035	N/F RUFUS R. AND JANE M. RODGENTER ET AL	TAX MAP #35-11	2237 LF
15568+85	LL-15-036	N/F CLIFTON DEAN MOORE	TAX MAP #34-35	528 LF
15568+39	LL-15-037	N/F CLIFTON DEAN MOORE	TAX MAP #34-35	901 LF
15578+40				



LEGEND

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

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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. 15518+00 TO 15573+00
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SCALE: AS SHOWN
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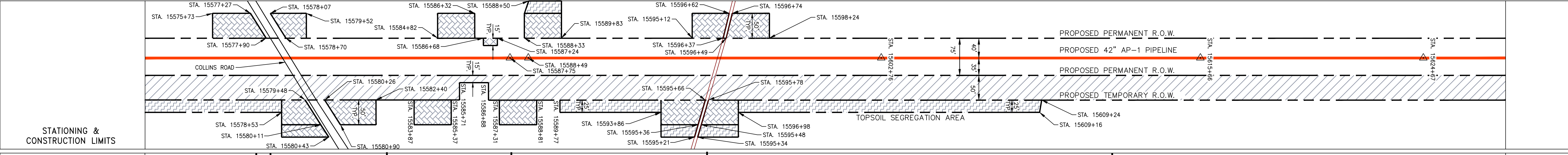
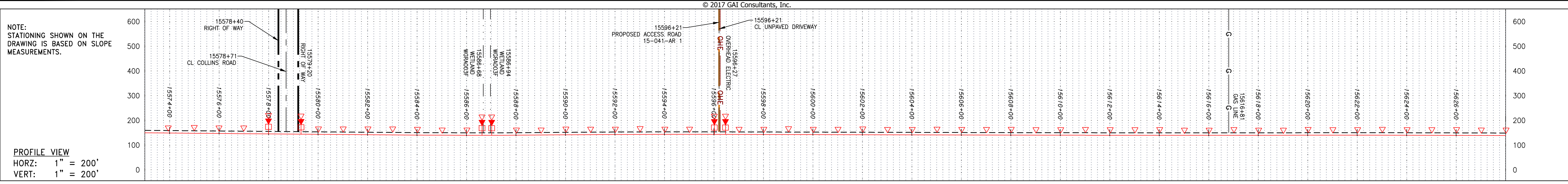
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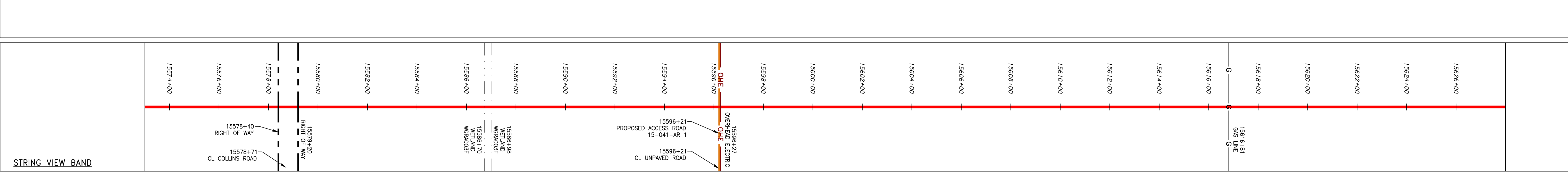
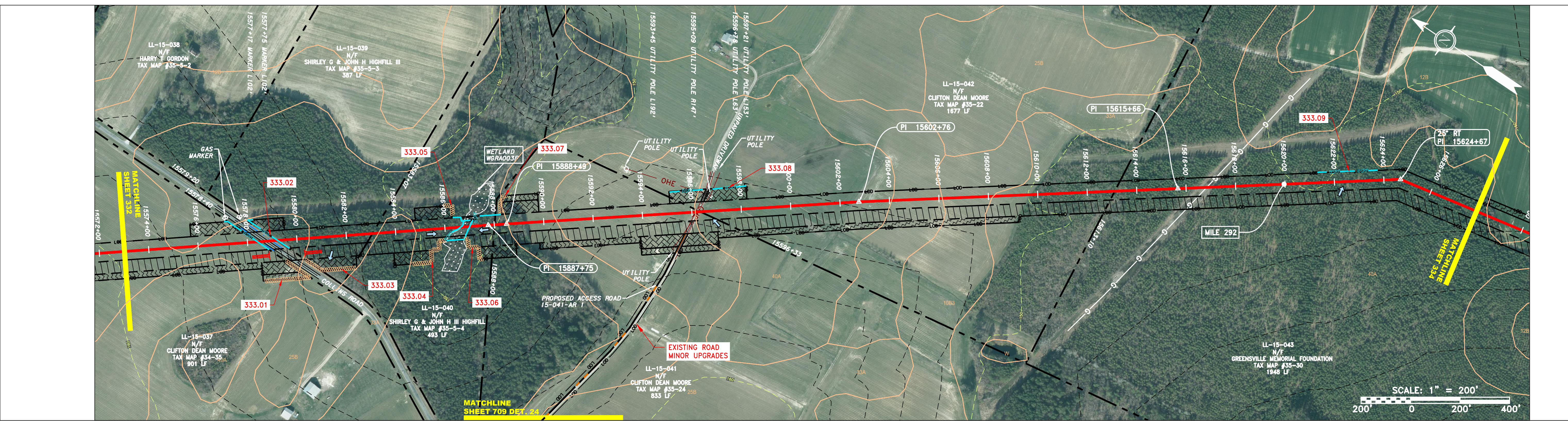
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PROPERTY OWNERSHIP	ADDRESS	AREA
LL-15-037	N/F CLIFTON DEAN MOORE TAX MAP #34-35 901 LF	15569+39
LL-15-038	N/F HARRY J GORDON TAX MAP #35-5-2	15578+40
LL-15-039	N/F SHIRLEY G & JOHN H HIGHFILL III TAX MAP #35-5-3 387 LF	15579+40
LL-15-040	N/F SHIRLEY G & JOHN H HIGHFILL III TAX MAP #35-5-4 493 LF	15583+07
LL-15-041	N/F CLIFTON DEAN MOORE TAX MAP #35-24 833 LF	15588+00
LL-15-042	N/F CLIFTON DEAN MOORE TAX MAP #35-22 1677 LF	15596+33
LL-15-043	N/F GREENSVILLE MEMORIAL FOUNDATION TAX MAP #35-30 1948 LF	15613+10
		15624+58



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.
—G—	STREAM	—W—	WATER LINE	▨	WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)	⊙	UTILITY POLE
—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).		
—OH—	OVERHEAD UTILITY LINES	—	EDGE OF GRAVEL				
—	ACCESS ROAD	—	PROPOSED PERMANENT EASEMENT				
—	PROPOSED GAS PIPELINE	—	PROPOSED GAS PIPELINE (NO GROUND SURVEY)				

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DANIEL R. GOLDSTEIN
 Lic. No. 047436
 ERM

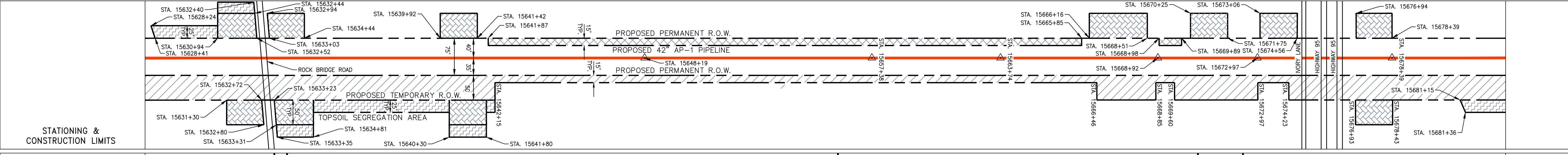
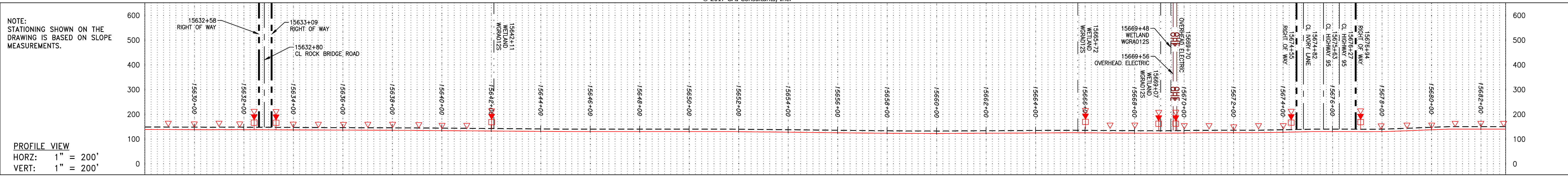
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 C140468
 TASK NO. SUB TASK NO.
 005 00
 GROUP ID DRAWING NO.
 D E333
 333 OF 344

42" AP-1 PIPELINE
 CONSTRUCTION ALIGNMENT STA. 15573+00 TO 15628+00
 GREENSVILLE COUNTY, VIRGINIA
 ATLANTIC COAST PIPELINE, LLC
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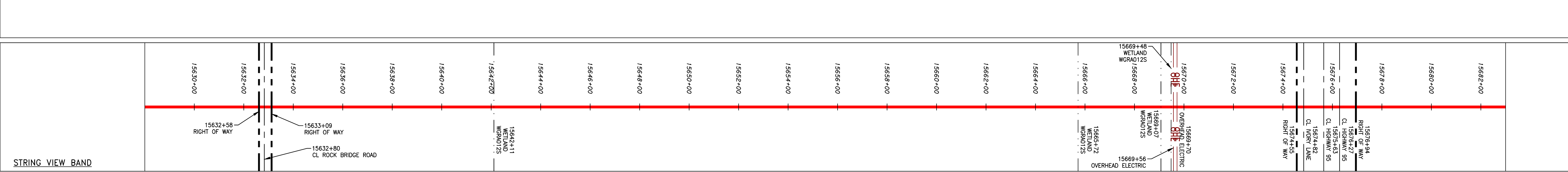
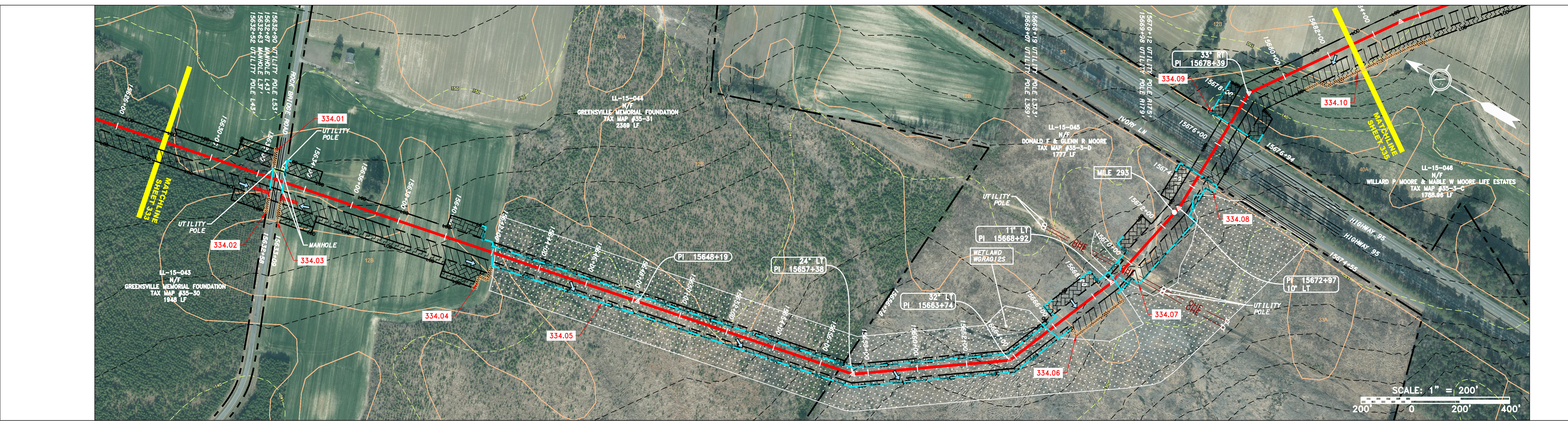
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 D E333
 333 OF 344



PROPERTY OWNERSHIP	ADDRESS	OWNER	ACRES
LL-15-043	N/F GREENSVILLE MEMORIAL FOUNDATION TAX MAP #35-30 1948 LF	GREENSVILLE MEMORIAL FOUNDATION	2368 LF
LL-15-044	N/F GREENSVILLE MEMORIAL FOUNDATION TAX MAP #35-31 2369 LF	GREENSVILLE MEMORIAL FOUNDATION	2369 LF
LL-15-045	N/F DONALD F & GLENN R MOORE TAX MAP #35-3-D 1777 LF	DONALD F & GLENN R MOORE	1777 LF
LL-15-046	N/F WILLARD P MOORE & MABLE W MOORE LIFE STATES TAX MAP #35-3-C 1788.96 LF	WILLARD P MOORE & MABLE W MOORE LIFE STATES	1788.96 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.
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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).		
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REVISIONS

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Professional Engineer
 DANIEL R. GOLDSTEIN
 Lic No. 047436

ERM

42" AP-1 PIPELINE
 CONSTRUCTION ALIGNMENT STA. 15628+00 TO 15683+00
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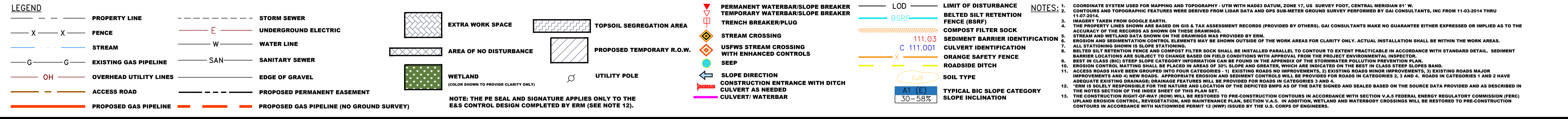
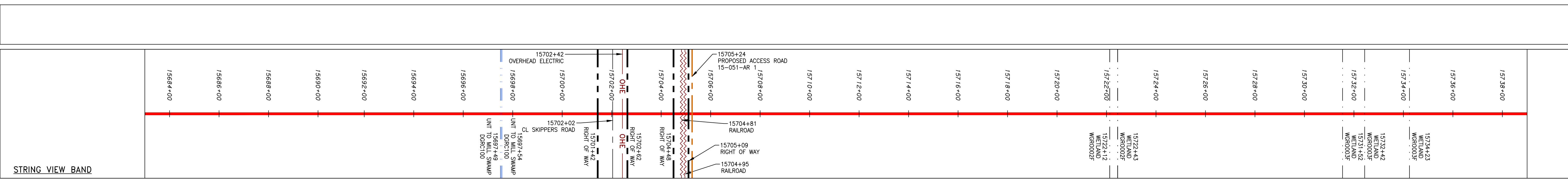
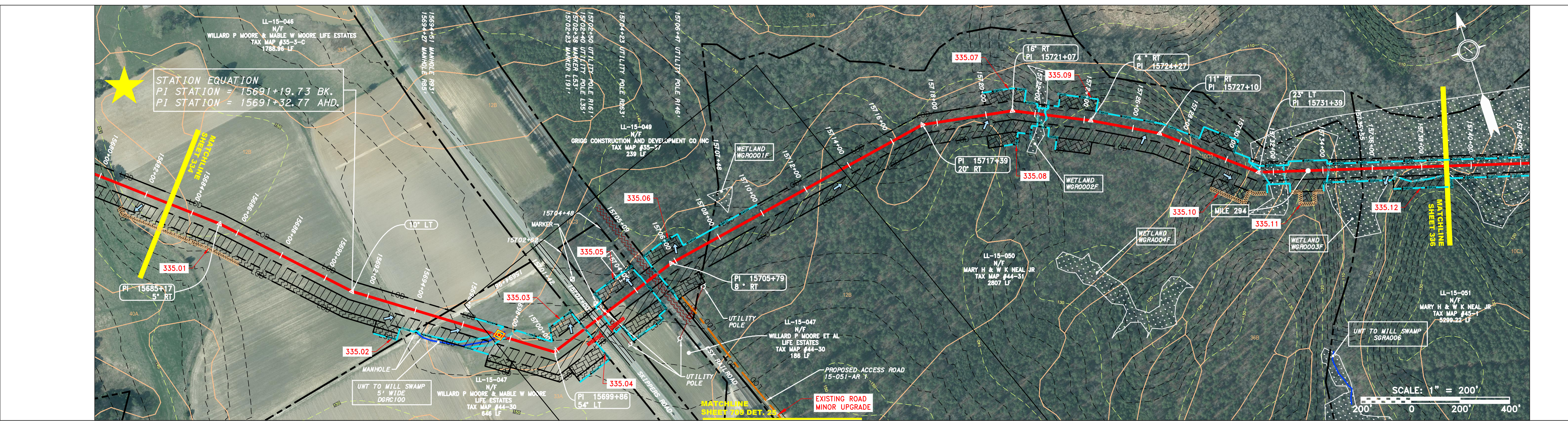
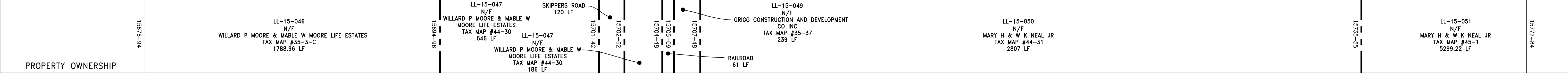
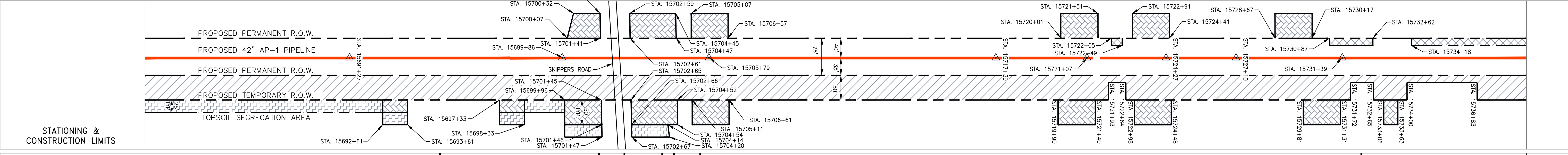
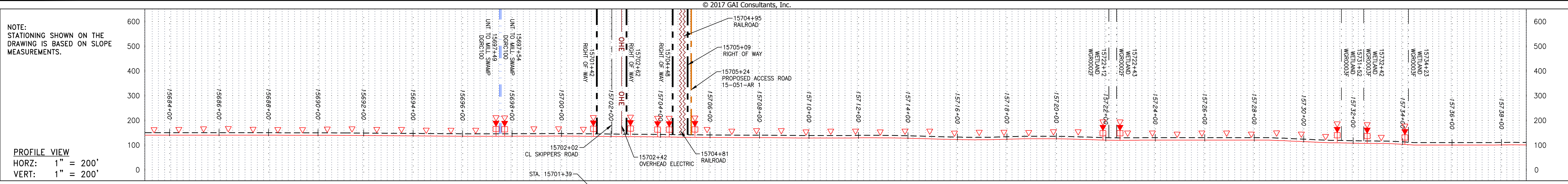
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NO.	DATE	BY	CHKD.	APPD.	DESCRIPTION

REVISIONS

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

CONSTRUCTION ALIGNMENT STA. 15683+00 TO 15739+00
 GREENSVILLE COUNTY, VIRGINIA

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

gai consultants

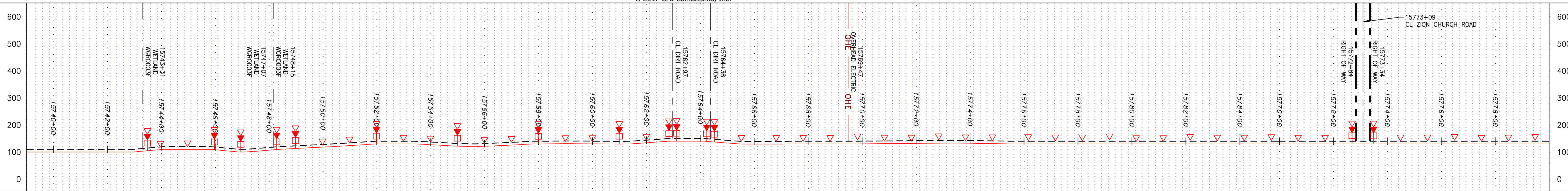
SOUTHPOINTE OFFICE
 6000 TOWN CENTER BLVD.
 CANONSBURG, PA 15317
 724-873-3545

PROJECT NO./DASH NO.	C140468
TASK NO. SUB TASK NO.	005 00
GROUP ID DRAWING NO.	D E335
335 OF 344	

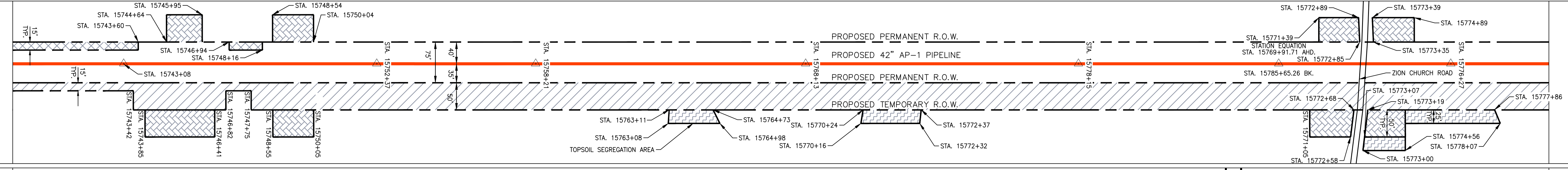
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NOTE: STATIONING SHOWN ON THE DRAWING IS BASED ON SLOPE MEASUREMENTS.

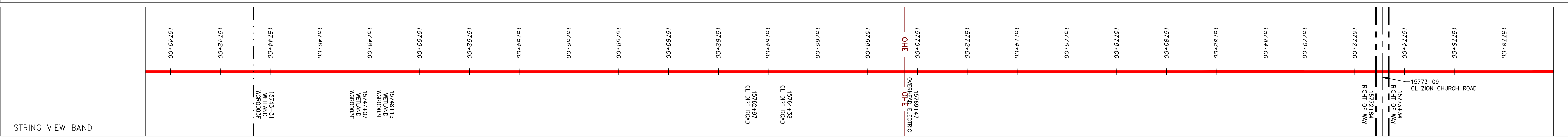
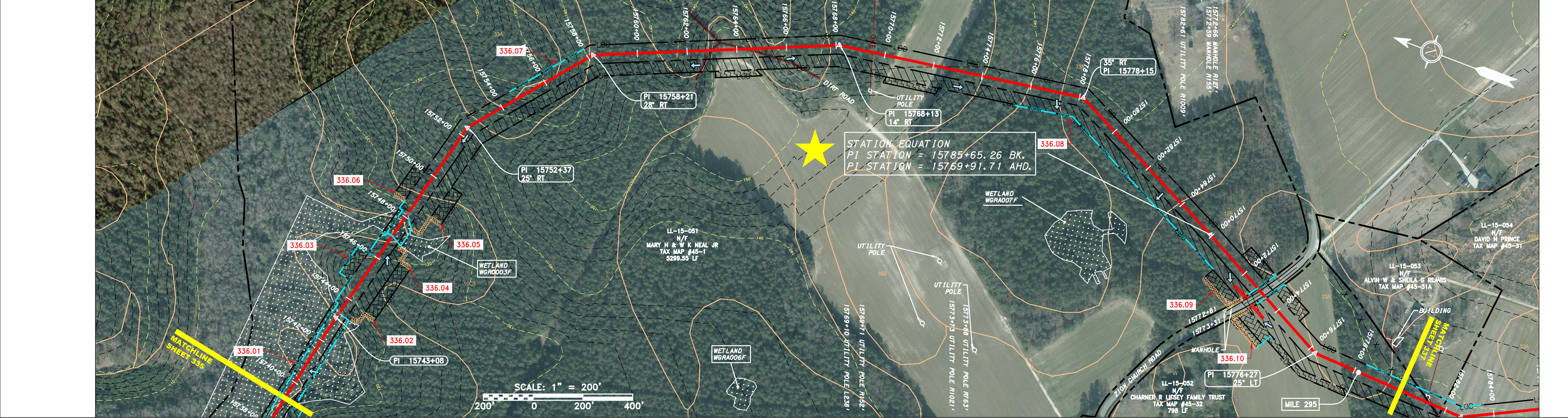
PROFILE VIEW
 HORZ: 1" = 200'
 VERT: 1" = 200'



STATIONING & CONSTRUCTION LIMITS



PROPERTY OWNERSHIP



LEGEND

—	PROPERTY LINE	—	STORM SEWER	▨	EXTRA WORK SPACE	▨	TOPSOIL SEGREGATION AREA	⚡	PERMANENT WATERBAR/SLOPE BREAKER	—	LOD	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. ACCURACY OF THE RECORDS AS SHOWN ON THESE DRAWINGS. 5. STREAM AND WETLAND DATA SHOWN ON THE DRAWINGS MAY BE SHOWN OUTSIDE OF THE WORK AREAS FOR CLARITY ONLY. ACTUAL INSTALLATION SHALL BE WITHIN THE WORK AREAS. 6. ALL STATIONING SHOWN IS SLOPE STATIONING. 7. BARRIERS 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 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 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. 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	▨	AREA OF NO DISTURBANCE	▨	PROPOSED TEMPORARY R.O.W.	⚡	TRENCH BREAKER/PLUG	—	BSRF	
—	STREAM	—W—	WATER LINE	▨	WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)	⚡	UTILITY POLE	⚡	STREAM CROSSING WITH ENHANCED CONTROLS	—	COMPOST FILTER SOCK	
—G—	EXISTING GAS PIPELINE	—S—	SANITARY SEWER	▨	WETLAND	⚡	WETLAND	⚡	USPWS STREAM CROSSING WITH ENHANCED CONTROLS	—	SEDIMENT BARRIER IDENTIFICATION	
—OH—	OVERHEAD UTILITY LINES	—	EDGE OF GRAVEL	▨	WETLAND	⚡	WETLAND	⚡	SLEEP	—	ORANGE SAFETY FENCE	
—	ACCESS ROAD	—	PROPOSED PERMANENT EASEMENT	▨	WETLAND	⚡	WETLAND	⚡	SLOPE DIRECTION	—	ROADSIDE DITCH	
—	PROPOSED GAS PIPELINE	—	PROPOSED GAS PIPELINE (NO GROUND SURVEY)	▨	WETLAND	⚡	WETLAND	⚡	CONSTRUCTION ENTRANCE WITH DITCH	—	SOIL TYPE	
—	PROPOSED GAS PIPELINE	—	PROPOSED GAS PIPELINE (NO GROUND SURVEY)	▨	WETLAND	⚡	WETLAND	⚡	CULVERT/WATERBAR	—	TYPICAL BIC SLOPE CATEGORY SLOPE INCLINATION	

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

REVISIONS

NO.	DATE	BY	CHKD.	APPD.	DESCRIPTION



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

CONSTRUCTION ALIGNMENT STA. 15739+00 TO 15780+00
 GREENSVILLE COUNTY, VIRGINIA

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



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

PROJECT NO./DASH NO.
 C140468

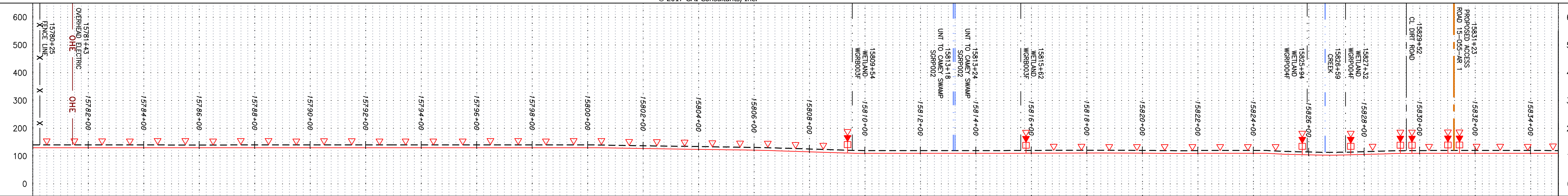
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GROUP ID DRAWING NO.
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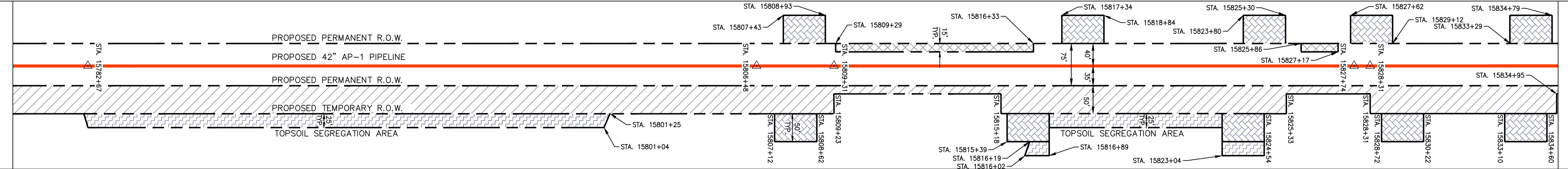
336 OF 344

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

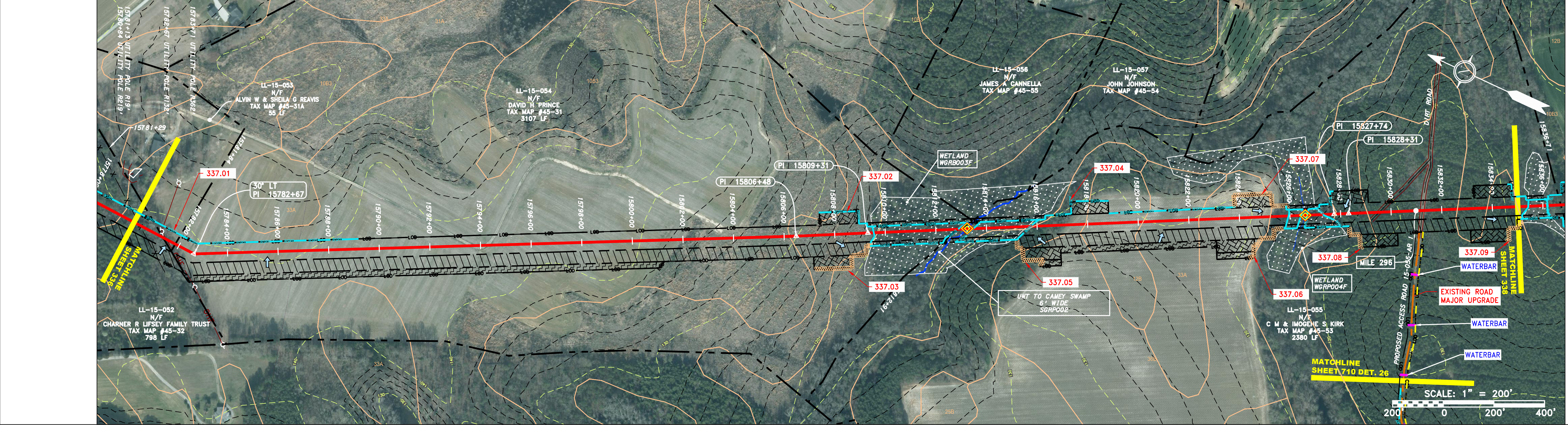
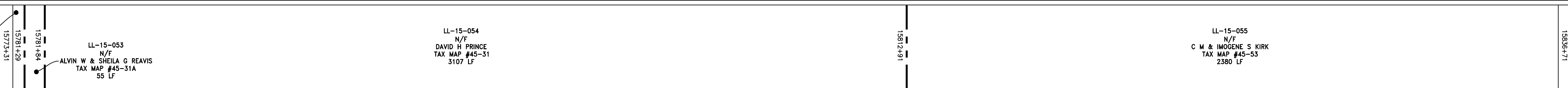
PROFILE VIEW
 HORZ: 1" = 200'
 VERT: 1" = 200'



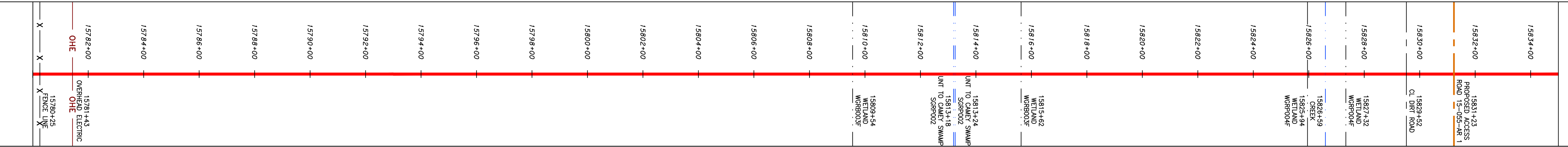
STATIONING & CONSTRUCTION LIMITS



PROPERTY OWNERSHIP



STRING VIEW BAND



LEGEND

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

NOTES:

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NO.	DATE	BY	CHKD.	APPD.	DESCRIPTION

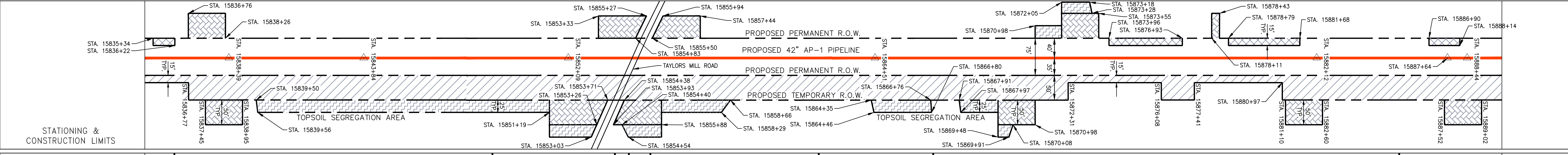
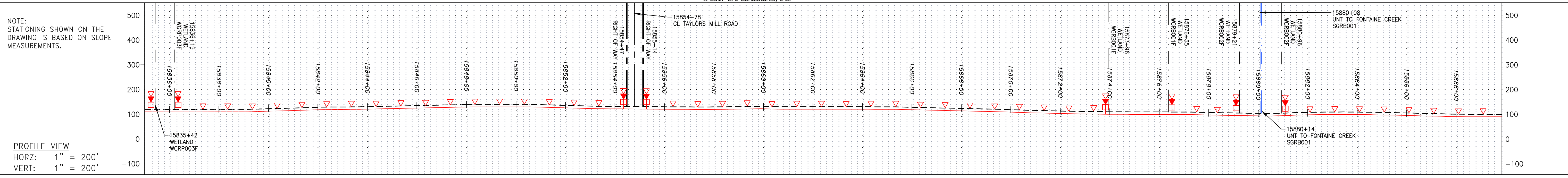
DANIEL R. GOLDSTEIN
 Lic No. 047436
 ERM

42" AP-1 PIPELINE
 CONSTRUCTION ALIGNMENT STA. 15780+00 TO 15835+00
 GREENVILLE COUNTY, VIRGINIA
 ATLANTIC COAST PIPELINE, LLC
 C/O DOMINION TRANSMISSION, INC.
 925 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330

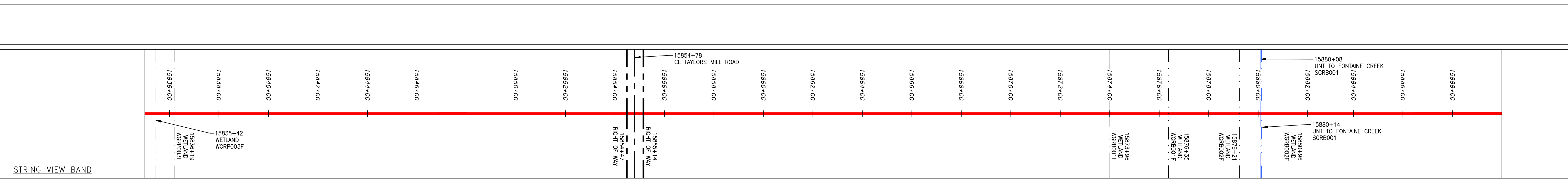
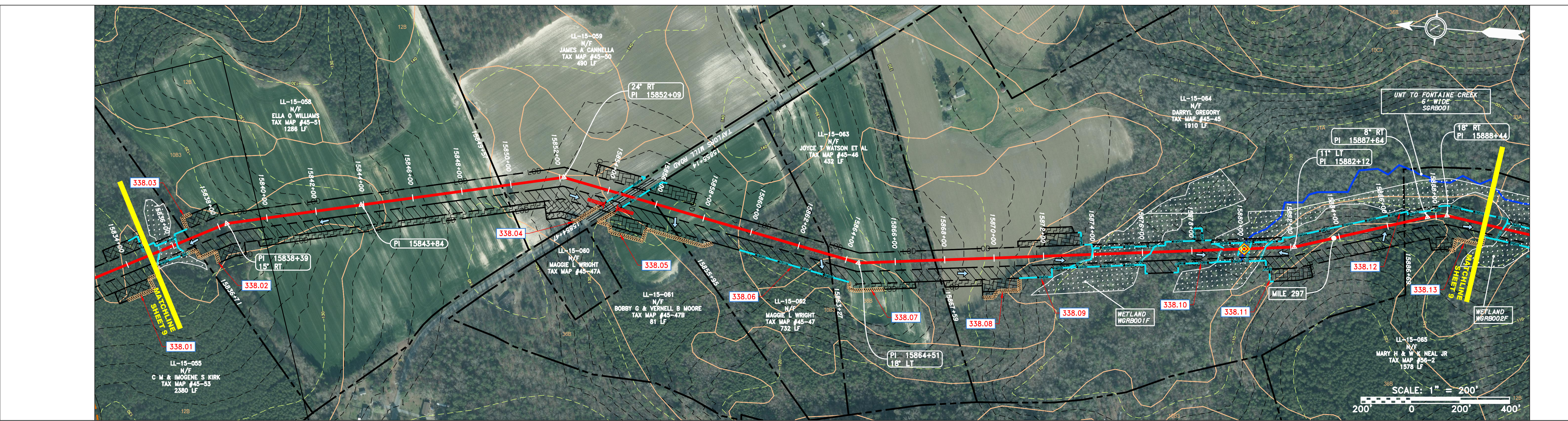
SCALE:	AS SHOWN
DATE:	11/23/2016
DRAWN:	SAQ
CHECKED:	DLH
APPROVED:	NET

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

PROJECT NO./DASH NO.	C140468
TASK NO. SUB TASK NO.	005 00
GROUP ID DRAWING NO.	D E337
337 OF 344	



PROPERTY OWNERSHIP	PROPERTY OWNERSHIP	PROPERTY OWNERSHIP	PROPERTY OWNERSHIP	PROPERTY OWNERSHIP	PROPERTY OWNERSHIP
LL-15-055 N/F C M & IMOGENE S KIRK TAX MAP #45-53 2380 LF	LL-15-058 N/F ELLA O WILLIAMS TAX MAP #45-51 1286 LF	LL-15-059 N/F JAMES A CANNELLA TAX MAP #45-50 490 LF	TAYLORS MILL ROAD 67 LF LL-15-061 N/F BOBBY G & VERNELL B MOORE TAX MAP #45-47B 81 LF	LL-15-062 N/F MAGGIE L WRIGHT TAX MAP #45-47 732 LF	LL-15-063 N/F JOYCE T WATSON ET AL TAX MAP #45-46 432 LF
LL-15-064 N/F DARRYL GREGORY TAX MAP #45-45 1910 LF	LL-15-065 N/F MARY H & W K NEAL JR TAX MAP #56-2 1578 LF				



LEGEND

— X — X —	PROPERTY LINE	— E —	STORM SEWER	[Hatched Box]	EXTRA WORK SPACE	[Dashed Box]	TOPSOIL SEGREGATION AREA	[Red Arrow]	PERMANENT WATERBAR/SLOPE BREAKER	[Blue Line]	LOD	LIMIT OF DISTURBANCE
— W —	FENCE	— W —	UNDERGROUND ELECTRIC	[Dotted Box]	AREA OF NO DISTURBANCE	[Hatched Box]	PROPOSED TEMPORARY R.O.W.	[Yellow Diamond]	TEMPORARY WATERBAR/SLOPE BREAKER	[Blue Line]	BSRF	BELTED SILT RETENTION FENCE (BSRF)
— G — G —	STREAM	— S —	WATER LINE	[Green Box]	WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)	[Circle]	UTILITY POLE	[Blue Diamond]	TRENCH BREAKER/PLUG	[Blue Line]	C 111.003	COMPOST FILTER SOCK
— OH —	EXISTING GAS PIPELINE	— S —	SANITARY SEWER	[Green Box]	WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)	[Circle]	UTILITY POLE	[Blue Diamond]	STREAM CROSSING	[Blue Line]	X	SEDIMENT BARRIER IDENTIFICATION
— OH —	OVERHEAD UTILITY LINES	— S —	EDGE OF GRAVEL	[Green Box]	WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)	[Circle]	UTILITY POLE	[Blue Diamond]	USPWS STREAM CROSSING WITH ENHANCED CONTROLS	[Blue Line]	C 111.003	CULVERT IDENTIFICATION
— OH —	ACCESS ROAD	— S —	PROPOSED PERMANENT EASEMENT	[Green Box]	WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)	[Circle]	UTILITY POLE	[Blue Diamond]	SEEPS	[Blue Line]	X	ORANGE SAFETY FENCE
— OH —	PROPOSED GAS PIPELINE	— S —	PROPOSED GAS PIPELINE (NO GROUND SURVEY)	[Green Box]	WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)	[Circle]	UTILITY POLE	[Blue Diamond]	SLOPE DIRECTION	[Blue Line]	X	ROADSIDE DITCH
		— S —		[Green Box]	WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)	[Circle]	UTILITY POLE	[Blue Diamond]	CONSTRUCTION ENTRANCE WITH DITCH	[Blue Line]	X	SOIL TYPE
		— S —		[Green Box]	WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)	[Circle]	UTILITY POLE	[Blue Diamond]	CULVERT AS NEEDED	[Blue Line]	X	AT (E) 30-58%
		— S —		[Green Box]	WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)	[Circle]	UTILITY POLE	[Blue Diamond]	CULVERT/WATERBAR	[Blue Line]	X	TYPICAL BIC SLOPE CATEGORY
		— S —		[Green Box]	WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)	[Circle]	UTILITY POLE	[Blue Diamond]		[Blue Line]	X	SLOPE INCLINATION

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

NOTES:

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REVISIONS

NO.	DATE	BY	CHKD.	APPD.	DESCRIPTION

ERM
 Daniel R. Goldstein
 Lic. No. 047436
 PROFESSIONAL ENGINEER

SCALE: AS SHOWN
 DATE: 11/23/2016
 DRAWN: SAQ
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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

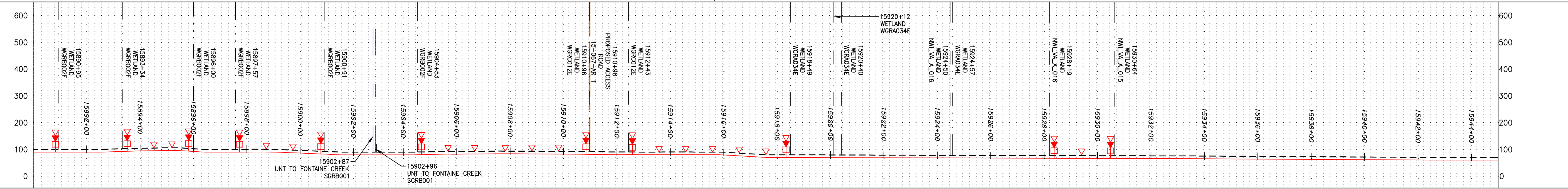
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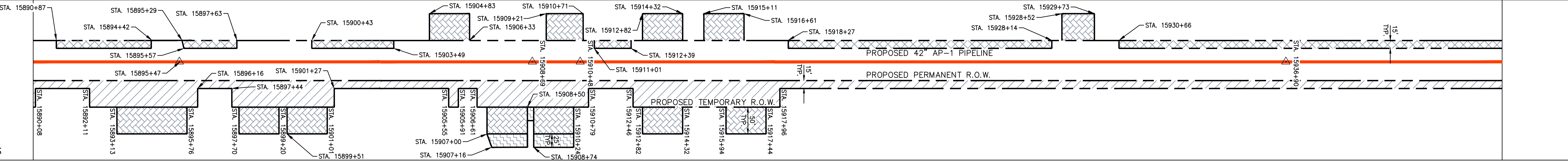
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NOTE: STATIONING SHOWN ON THE DRAWING IS BASED ON SLOPE MEASUREMENTS.

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

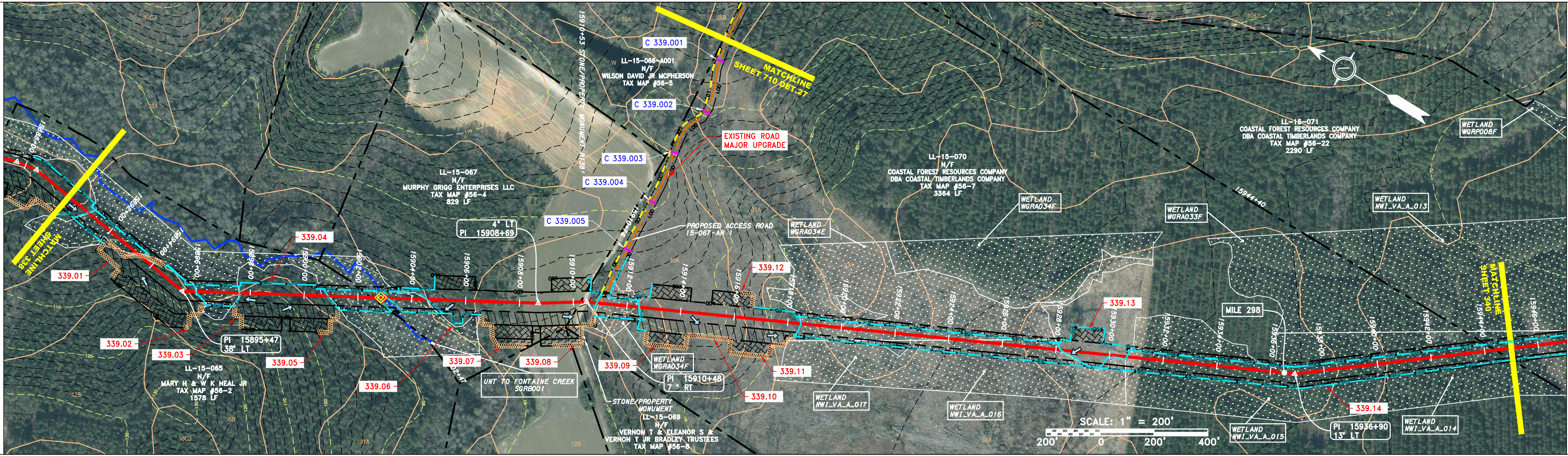


STATIONING & CONSTRUCTION LIMITS

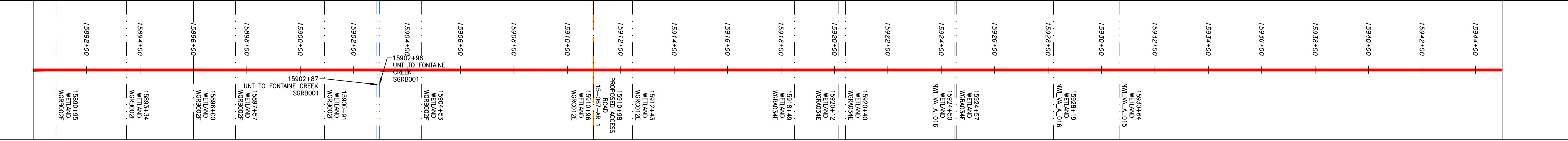


PROPERTY OWNERSHIP

Table listing property ownership details including parcel numbers (e.g., LL-15-065, LL-15-067, LL-15-070, LL-15-071), owner names (e.g., MARY H & W K NEAL JR, MURPHY GRIGG ENTERPRISES LLC, COASTAL FOREST RESOURCES COMPANY), and acreage.



STRING VIEW BAND



Legend and Notes section containing symbols for property lines, fences, streams, easements, wetlands, and construction features. Includes notes regarding coordinate systems, accuracy, and construction requirements.

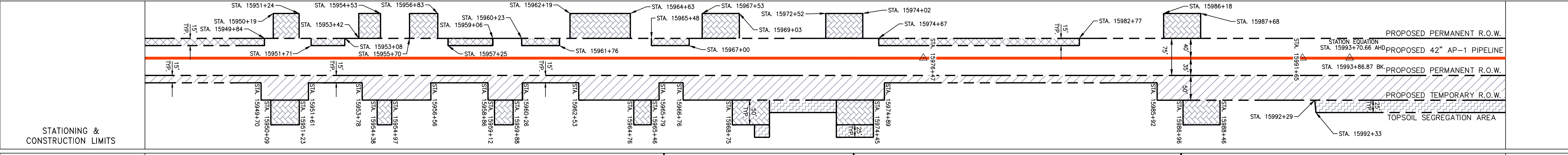
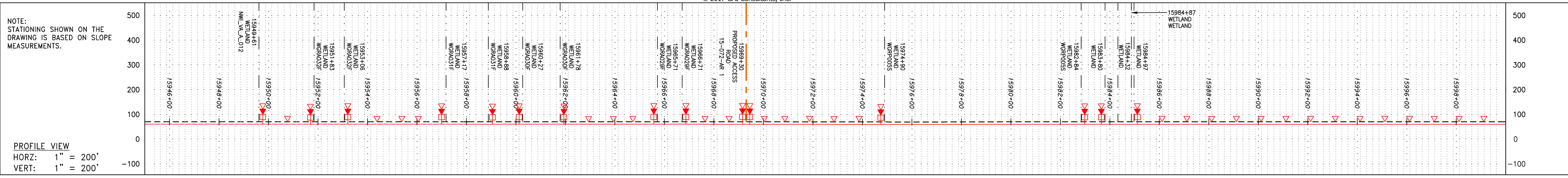
Professional Engineer seal for Daniel R. Goldstein, License No. 047436, and ERM logo.

42" AP-1 PIPELINE
CONSTRUCTION ALIGNMENT STA. 15890+00 TO 15945+00
GREENSVILLE COUNTY, VIRGINIA
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C/O DOMINION TRANSMISSION, INC.
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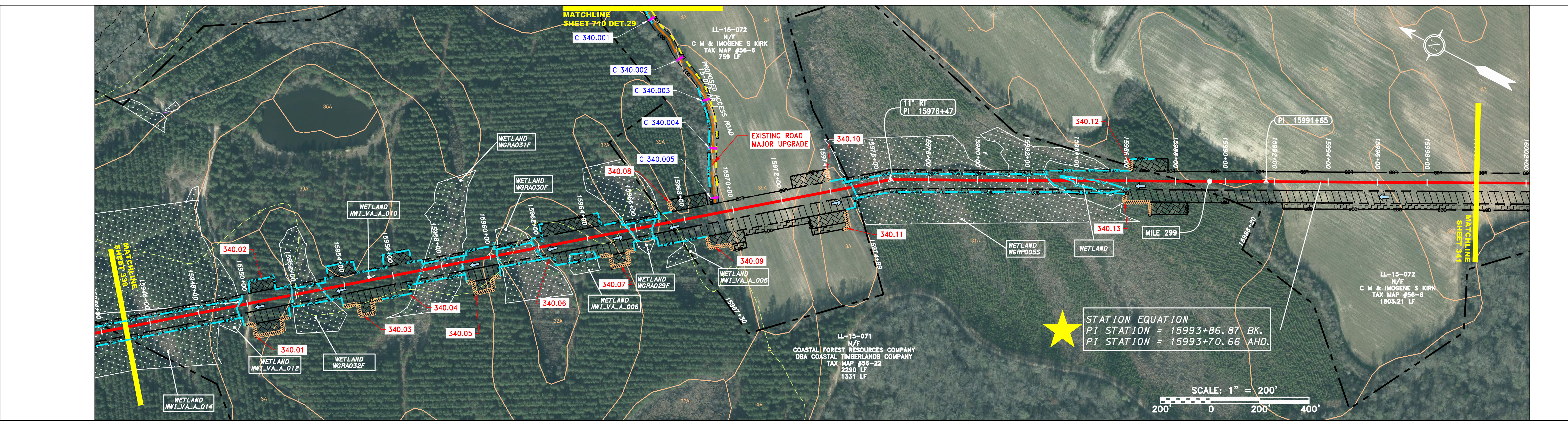
SCALE: AS SHOWN
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APPROVED: NET

Project information including Southpointe Office address (6000 TOWN CENTER BLVD., CANONSBURG, PA 15317), project number (C140468), task number (005), and drawing number (E339).

GAI CAD FILE NO. T:\DOMINION\AP-1\ESC\CADD-GIS DATA\KST_CHK1_SPREAD_7_ESC_SHT_339.DWG



PROPERTY OWNERSHIP	ADDRESS
LL-15-071 N/F COASTAL FOREST RESOURCES COMPANY DBA COASTAL TIMBERLANDS COMPANY TAX MAP #56-22 2290 LF	15944+00
LL-15-072 N/F C M & IMOGENE S KIRK TAX MAP #56-6 759 LF	15971+30
LL-15-071 N/F COASTAL FOREST RESOURCES COMPANY DBA COASTAL TIMBERLANDS COMPANY TAX MAP #56-22 1331 LF	15974+89
LL-15-072 N/F C M & IMOGENE S KIRK TAX MAP #56-6 1803.21 LF	18006+07



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	▨	▨
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.
- 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.
- BEST PRACTICES SHALL BE USED TO PREVENT EROSION AND SEDIMENTATION.
- 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.
- 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 SEDIMENTATION CONTROLS WILL BE PROVIDED FOR ROADS IN CATEGORIES 2, 3 AND 4. ROADS IN CATEGORIES 1 AND 2 HAVE ADEQUATE EXISTING DRAINAGE. DRAINAGE FEATURES WILL BE PROVIDED FOR ROADS IN CATEGORIES 3 AND 4.
- ERM IS SOLELY RESPONSIBLE FOR THE NATURE AND LOCATION OF THE DEPICTED BMPs AS OF THE DATE SIGNED AND SEALED BASED ON THE SOURCE DATA PROVIDED AND AS DESCRIBED IN THE NOTES SECTION OF THE 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.

REVISIONS

NO.	DATE	BY	CHKD.	APPD.	DESCRIPTION

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

42" AP-1 PIPELINE
 CONSTRUCTION ALIGNMENT STA. 15945+00 TO 16000+00
 GREENSVILLE 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: SAQ
 CHECKED: DLH
 APPROVED: NET

gai consultants

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

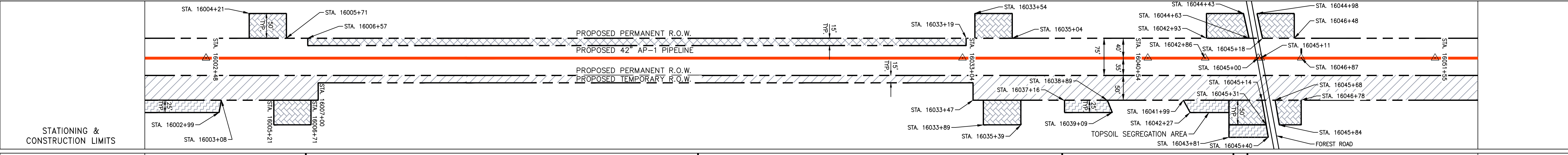
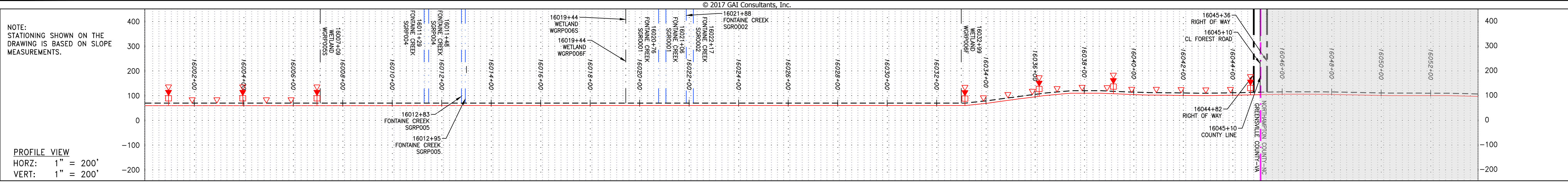
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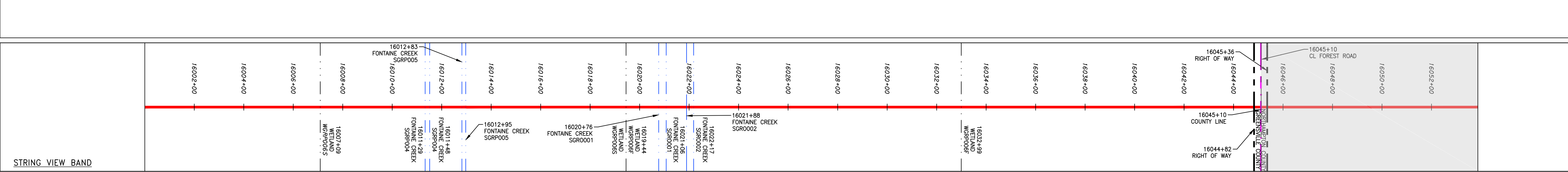
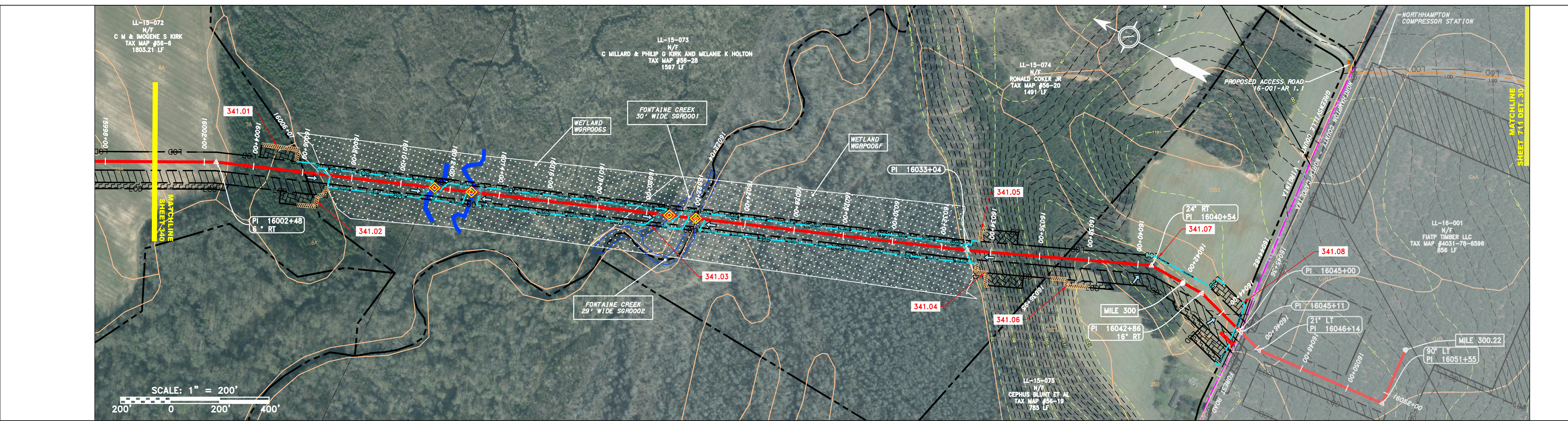
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PROPERTY OWNERSHIP	ADDRESS	OWNER	TAX MAP	ACRES
15989+20	LL-15-072	C M & IMOGENE S KIRK	#56-6	1803.21 LF
16006+07	LL-15-073	C MILLARD & PHILIP G KIRK AND MELANIE K HOLTON	#56-28	1597 LF
16022+04	LL-15-074	RONALD COCKER JR	#56-20	1491 LF
16038+95	LL-15-075	CEPHUS BLUNT ET AL	#56-19	787 LF
16044+82	LL-16-001	FIATP TIMBER LLC	#4031-78-6596	856 LF
16053+92				



LEGEND

—	PROPERTY LINE	—	STORM SEWER	—	EXTRA WORK SPACE	—	TOPSOIL SEGREGATION AREA	—	PERMANENT WATERBAR/SLOPE BREAKER	—	LOD	—	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.	—	TEMPORARY WATERBAR/SLOPE BREAKER	—	BSRF	—	BELTED 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	—	UTILITY POLE	—	TRENCH BREAKER/PLUG	—	111.03	—	COMPOST FILTER SOCK	3.	IMAGERY TAKEN FROM GOOGLE EARTH.
G	EXISTING GAS PIPELINE	SAN	SANITARY SEWER	—	WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)	—		—	STREAM CROSSING WITH ENHANCED CONTROLS	—	C 111.001	—	SEDIMENT BARRIER IDENTIFICATION	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.
OH	OVERHEAD UTILITY LINES	—	EDGE OF GRAVEL	—		—		—	USPWS STREAM CROSSING WITH ENHANCED CONTROLS	—	X	—	CULVERT IDENTIFICATION	5.	STREAM AND WETLAND DATA SHOWN ON THE DRAWINGS WAS PROVIDED BY ERM.
—	ACCESS ROAD	—	PROPOSED PERMANENT EASEMENT	—		—		—	SEEP	—	—	—	ROADSIDE DITCH	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)	—		—		—	SLOPE DIRECTION	—	—	—	SOIL TYPE	7.	BEST PRACTICES FOR THE DESIGN AND CONSTRUCTION OF BEST MANAGEMENT PRACTICES (BMPs) SHALL BE USED TO PREVENT EROSION AND SEDIMENTATION. BMPs 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.
									CONSTRUCTION ENTRANCE WITH DITCH	—	—	—	AT (E)	8.	AREAS OF STEEP SLOPE SHALL BE IDENTIFIED AND Labeled AS SUCH ON THE DRAWINGS. BEST PRACTICES FOR THE DESIGN AND CONSTRUCTION OF BEST MANAGEMENT PRACTICES (BMPs) SHALL BE USED TO PREVENT EROSION AND SEDIMENTATION. BMPs 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.
									CULVERT/WATERBAR	—	—	—	30-58%	9.	EXISTING 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.

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.
- BEST PRACTICES FOR THE DESIGN AND CONSTRUCTION OF BEST MANAGEMENT PRACTICES (BMPs) SHALL BE USED TO PREVENT EROSION AND SEDIMENTATION. BMPs 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.
- AREAS OF STEEP SLOPE SHALL BE IDENTIFIED AND Labeled AS SUCH ON THE DRAWINGS. BEST PRACTICES FOR THE DESIGN AND CONSTRUCTION OF BEST MANAGEMENT PRACTICES (BMPs) SHALL BE USED TO PREVENT EROSION AND SEDIMENTATION. BMPs 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.
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NOTE: THE PE SEAL AND SIGNATURE APPLIES ONLY TO THE E&S CONTROL DESIGN COMPLETED BY ERM (SEE NOTE 12).

REVISIONS

NO.	DATE	BY	CHKD.	APPD.	DESCRIPTION

Professional Engineer
Daniel R. Goldstein
 Lic No. 047436

ERM

42" AP-1 PIPELINE
CONSTRUCTION ALIGNMENT STA. 16000+00 TO 16053+92
 GREENSVILLE COUNTY, VIRGINIA & NORTHAMPTON COUNTY, NORTH CAROLINA

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

SCALE: AS SHOWN
 DATE: 11/23/2016
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gai consultants

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PROJECT NO./DASH NO.
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TASK NO. SUB TASK NO.
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