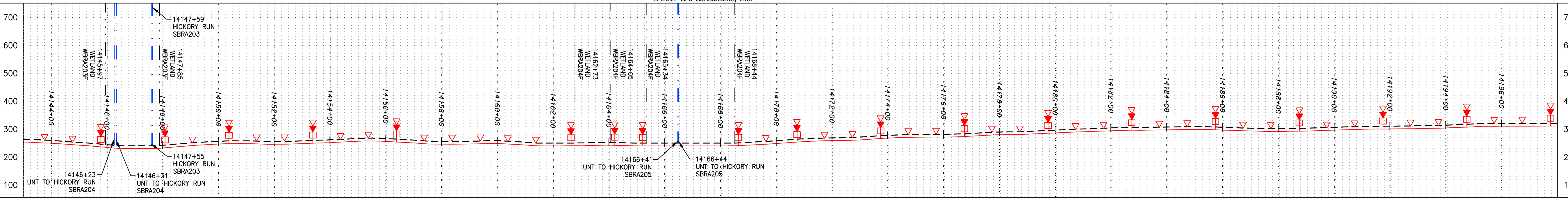
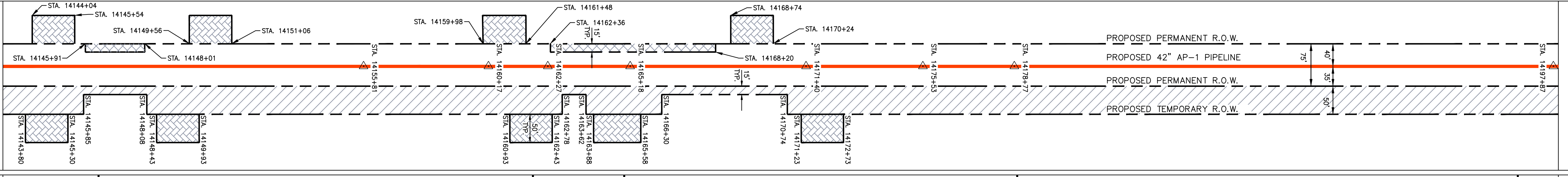


NOTE: STATIONING SHOWN ON THE DRAWING IS BASED ON SLOPE MEASUREMENTS.

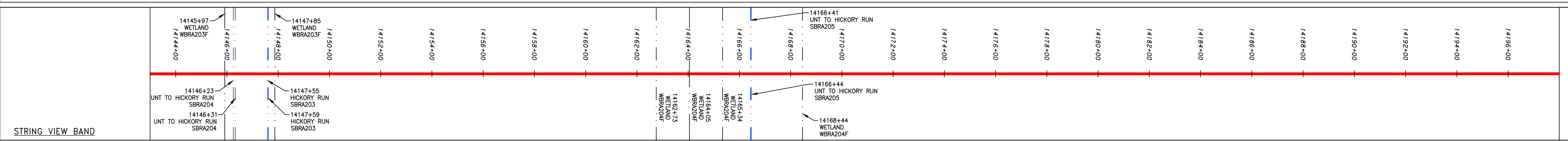
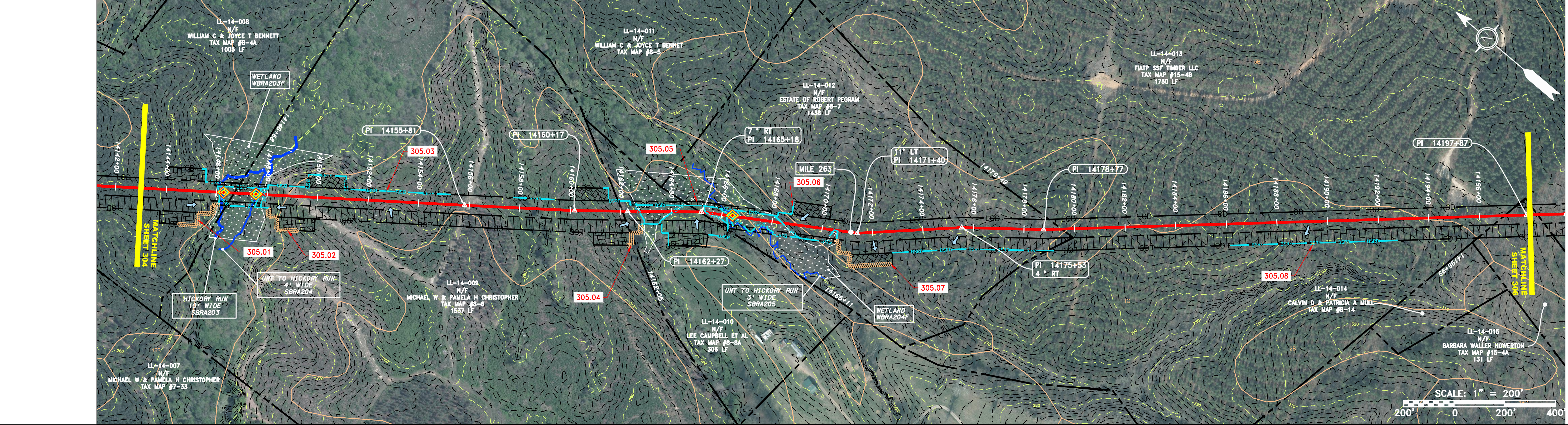
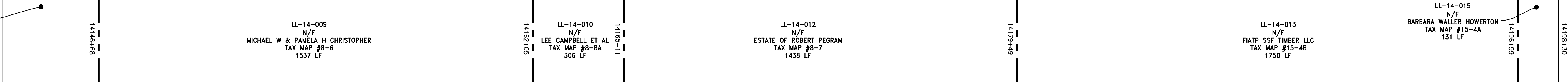
PROFILE VIEW
 HORZ: 1" = 200'
 VERT: 1" = 200'



STATIONING & CONSTRUCTION LIMITS



PROPERTY OWNERSHIP



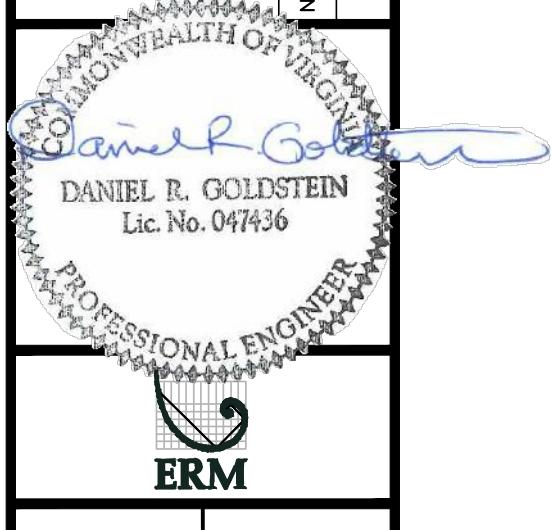
LEGEND

— X — X —	PROPERTY LINE	— E —	STORM SEWER	[Hatched Box]	EXTRA WORK SPACE	[Dashed Line]	TOPSOIL SEGREGATION AREA	[Red Triangle]	PERMANENT WATERBAR/SLOPE BREAKER	[Blue Line]	LOD	LIMIT OF DISTURBANCE	[Green Line]	BELTED SILT RETENTION FENCE (BSRF)	[Orange Line]	COMPOST FILTER SOCK	[Blue Line]	SEDIMENT BARRIER IDENTIFICATION	[Orange Line]	C 111.03	ORANGE SAFETY FENCE	[Red Line]	X	ROADSIDE DITCH	[Blue Line]	Soil Type	[Blue Line]	A1 (E)	TYPICAL BIC SLOPE CATEGORY	[Blue Line]	30-58%	SLOPE INCLINATION	
— G — G —	EXISTING GAS PIPELINE	— W —	WATER LINE	[Hatched Box]	AREA OF NO DISTURBANCE	[Dashed Line]	PROPOSED TEMPORARY R.O.W.	[Green Triangle]	STREAM CROSSING	[Blue Line]	[Blue Line]	SEEP	[Blue Line]	[Blue Line]	[Blue Line]	[Blue Line]	[Blue Line]	[Blue Line]	[Blue Line]	[Blue Line]	[Blue Line]	[Blue Line]	[Blue Line]	[Blue Line]	[Blue Line]	[Blue Line]	[Blue Line]	[Blue Line]	[Blue Line]	[Blue Line]	[Blue Line]	[Blue Line]	[Blue Line]
— OH —	OVERHEAD UTILITY LINES	— SAN —	SANITARY SEWER	[Hatched Box]	UTILITY POLE	[Blue Line]	CONSTRUCTION ENTRANCE WITH DITCH	[Blue Line]	CULVERT AS NEEDED	[Blue Line]	[Blue Line]	[Blue Line]	[Blue Line]	[Blue Line]	[Blue Line]	[Blue Line]	[Blue Line]	[Blue Line]	[Blue Line]	[Blue Line]	[Blue Line]	[Blue Line]	[Blue Line]	[Blue Line]	[Blue Line]	[Blue Line]	[Blue Line]	[Blue Line]	[Blue Line]	[Blue Line]	[Blue Line]	[Blue Line]	
—	PROPOSED GAS PIPELINE	—	PROPOSED GAS PIPELINE (NO GROUND SURVEY)	[Hatched Box]	WETLAND	[Blue Line]	CONSTRUCTION ENTRANCE WITH DITCH	[Blue Line]	CULVERT/WATERBAR	[Blue Line]	[Blue Line]	[Blue Line]	[Blue Line]	[Blue Line]	[Blue Line]	[Blue Line]	[Blue Line]	[Blue Line]	[Blue Line]	[Blue Line]	[Blue Line]	[Blue Line]	[Blue Line]	[Blue Line]	[Blue Line]	[Blue Line]	[Blue Line]	[Blue Line]	[Blue Line]	[Blue Line]	[Blue Line]	[Blue Line]	[Blue Line]

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.
- ALL STATIONING SHOWN IS SLOPE STATIONING.
- EROSION AND SEDIMENTATION CONTROL ELEMENTS MAY BE SHOWN OUTSIDE OF THE WORK AREAS FOR CLARITY ONLY. ACTUAL INSTALLATION SHALL BE WITHIN THE WORK AREAS.
- BARRIERS LOCATIONS ARE SUBJECT TO CHANGE BASED ON FIELD CONDITIONS WITH APPROVAL FROM THE PROJECT ENVIRONMENTAL INSPECTOR.
- BEST IN CLASS (BIC) STEEP SLOPE CATEGORY INFORMATION CAN BE FOUND IN THE APPENDIX OF THE STORMWATER POLLUTION PREVENTION PLAN.
- EROSION CONTROL MATING SHALL BE PLACED IN AREAS 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 MAJOR IMPROVEMENTS AND 3) NEW ROADS. APPROPRIATE EROSION AND SEDIMENT CONTROLS WILL BE PROVIDED FOR ROADS IN CATEGORIES 2, 3 AND 4. ROADS IN CATEGORIES 1 AND 2 HAVE ADEQUATE EXISTING DRAINAGE. DRAINAGE FEATURES WILL BE PROVIDED FOR ROADS IN CATEGORIES 3 AND 4.
- ERM IS SOLELY RESPONSIBLE FOR THE NATURE AND LOCATION OF THE DEPICTED BMPs AS OF THE DATE SIGNED AND SEALED BY 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) UP-LAND EROSION CONTROL, REVEGETATION, AND MAINTENANCE PLAN, SECTION V.A.5. IN ADDITION, WETLAND AND WATERBODY CROSSINGS WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS IN ACCORDANCE WITH NATIONWIDE PERMIT 12 (NWP) ISSUED BY THE U.S. CORPS OF ENGINEERS.

NO.	DATE	BY	CHKD.	APPD.	DESCRIPTION



42" AP-1 PIPELINE
 CONSTRUCTION ALIGNMENT STA. 14143+00 TO 14198+00
 BRUNSWICK COUNTY, VIRGINIA
 ATLANTIC COAST PIPELINE, LLC
 C/O DOMINION TRANSMISSION, INC.
 925 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330

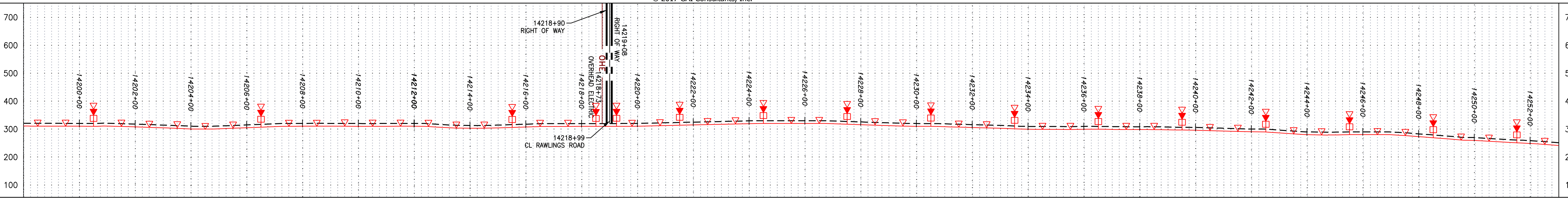
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 DATE: 11/23/2016
 DRAWN: JFS
 CHECKED: DLH
 APPROVED: NET



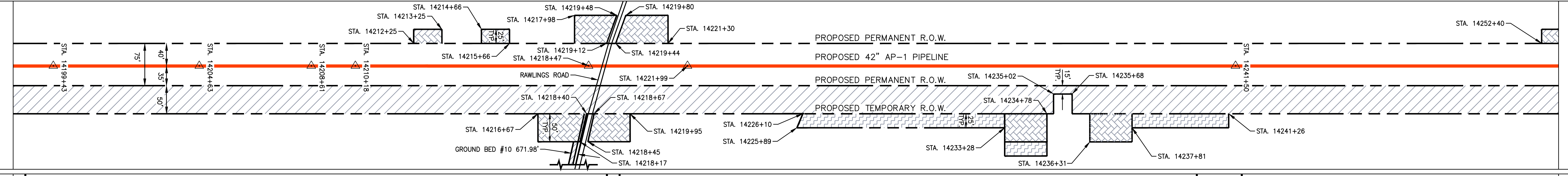
PROJECT NO./DASH NO.	C140468
TASK NO. SUB TASK NO.	005 00
GROUP ID DRAWING NO.	D E305
305 OF 344	

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

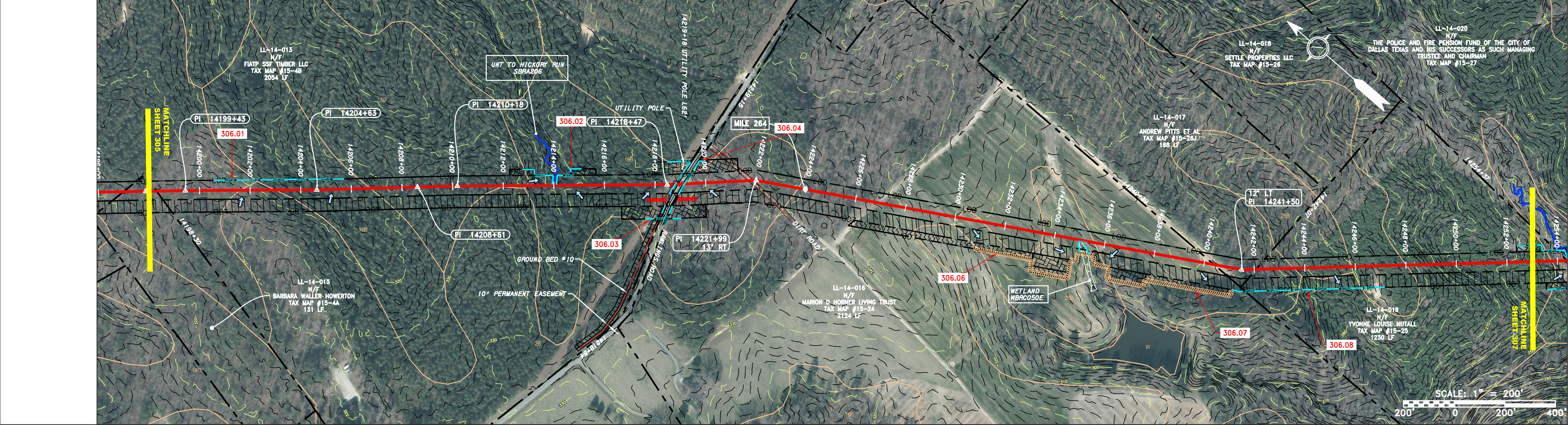
PROFILE VIEW
 HORZ: 1" = 200'
 VERT: 1" = 200'



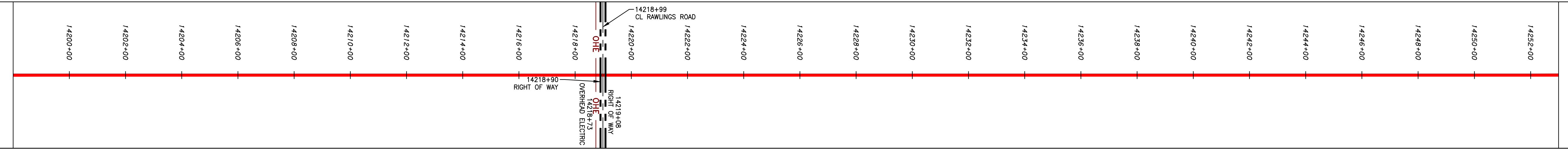
STATIONING & CONSTRUCTION LIMITS



PROPERTY OWNERSHIP



STRING VIEW BAND



LEGEND

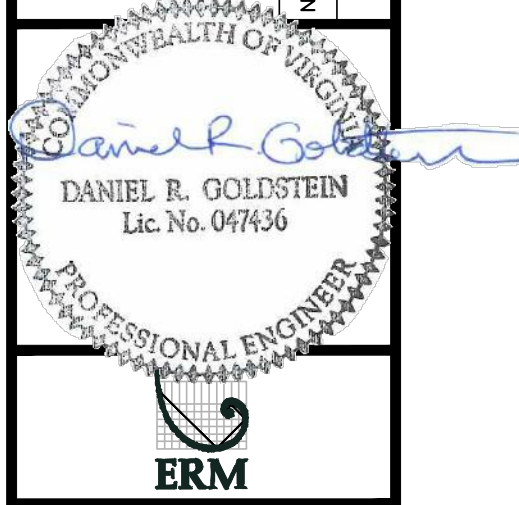
---	PROPERTY LINE	---	STORM SEWER	---	EXTRA WORK SPACE
X X	FENCE	E	UNDERGROUND ELECTRIC	---	TOPSOIL SEGREGATION AREA
---	STREAM	W	WATER LINE	---	AREA OF NO DISTURBANCE
G G	EXISTING GAS PIPELINE	---	SAN	---	PROPOSED TEMPORARY R.O.W.
OH	OVERHEAD UTILITY LINES	---	EDGE OF GRAVEL	---	UTILITY POLE
---	ACCESS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

---	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
---	USFWS STREAM CROSSING WITH ENHANCED CONTROLS	---	X	---	ORANGE SAFETY FENCE
---	SEEP	---	---	---	ROADSIDE DITCH
---	SLOPE DIRECTION	---	---	---	SOIL TYPE
---	CONSTRUCTION ENTRANCE WITH DITCH	---	A1 (E)	---	30-58%
---	CULVERT AS NEEDED	---	---	---	TYPICAL BIC SLOPE CATEGORY
---	CULVERT/WATERBAR	---	---	---	SLOPE INCLINATION

- NOTES:**
- COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY - UTM WITH NAD83 DATUM, ZONE 17, US SURVEY FOOT, CENTRAL MERIDIAN 81° W.
 - CONTOURS AND TOPOGRAPHIC FEATURES WERE DERIVED FROM LIDAR DATA AND GPS SUB-METER GROUND SURVEY PERFORMED BY GAI CONSULTANTS, INC FROM 11-03-2014 THRU 11-07-2014.
 - IMAGERY TAKEN FROM GOOGLE EARTH.
 - THE PROPERTY LINES SHOWN ON THE DRAWINGS WERE 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 SLOPE BAND.
 - ACCESS ROADS HAVE BEEN GROUPED INTO FOUR CATEGORIES - 1) EXISTING ROADS NO IMPROVEMENTS, 2) EXISTING ROADS MINOR IMPROVEMENTS, 3) EXISTING ROADS MAJOR IMPROVEMENTS AND 4) NEW ROADS. APPROPRIATE EROSION AND SEDIMENT CONTROLS WILL BE PROVIDED FOR ROADS IN CATEGORIES 2, 3 AND 4. ROADS IN CATEGORIES 1 AND 2 HAVE ADEQUATE EXISTING DRAINAGE. DRAINAGE FEATURES WILL BE PROVIDED FOR ROADS IN CATEGORIES 3 AND 4.
 - ERM IS SOLELY RESPONSIBLE FOR THE NATURE AND LOCATION OF THE DEPICTED BMPs AS OF THE DATE SIGNED AND SEALED BASED ON THE SOURCE DATA PROVIDED AND AS DESCRIBED IN THE NOTES SECTION OF THE INDEX SHEET OF THIS PLAN SET.
 - THE CONSTRUCTION RIGHT-OF-WAY (ROW) WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS IN ACCORDANCE WITH SECTION V.A.5 FEDERAL ENERGY REGULATORY COMMISSION (FERC) UP-LAND EROSION CONTROL, REVEGETATION, AND MAINTENANCE PLAN, SECTION V.A.5. IN ADDITION, WETLAND AND WATERBODY CROSSINGS WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS IN ACCORDANCE WITH NATIONWIDE PERMIT 12 (NWP) ISSUED BY THE U.S. CORPS OF ENGINEERS.

REVISIONS

NO.	DATE	BY	CHKD.	APPD.	DESCRIPTION



42" AP-1 PIPELINE
 CONSTRUCTION ALIGNMENT STA. 14198+00 TO 14253+00
 ATLANTIC COAST PIPELINE, LLC
 C/O DOMINION TRANSMISSION, INC.
 925 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330
 DINWIDDIE COUNTY, VIRGINIA

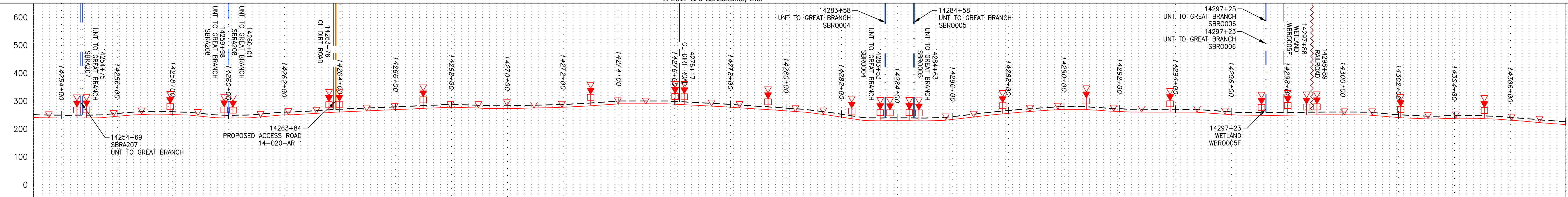
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APPROVED:	NET



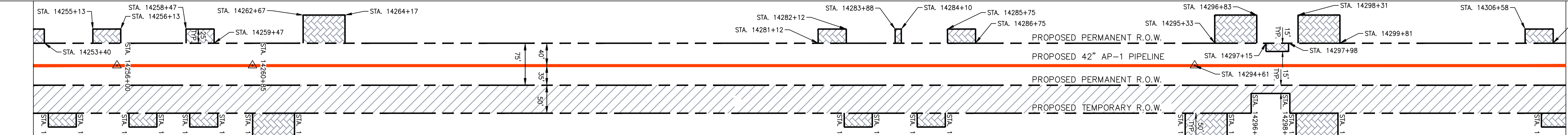
PROJECT NO./DASH NO.	C140468
TASK NO. SUB TASK NO.	005 00
GROUP ID DRAWING NO.	D E306
306 OF 344	

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

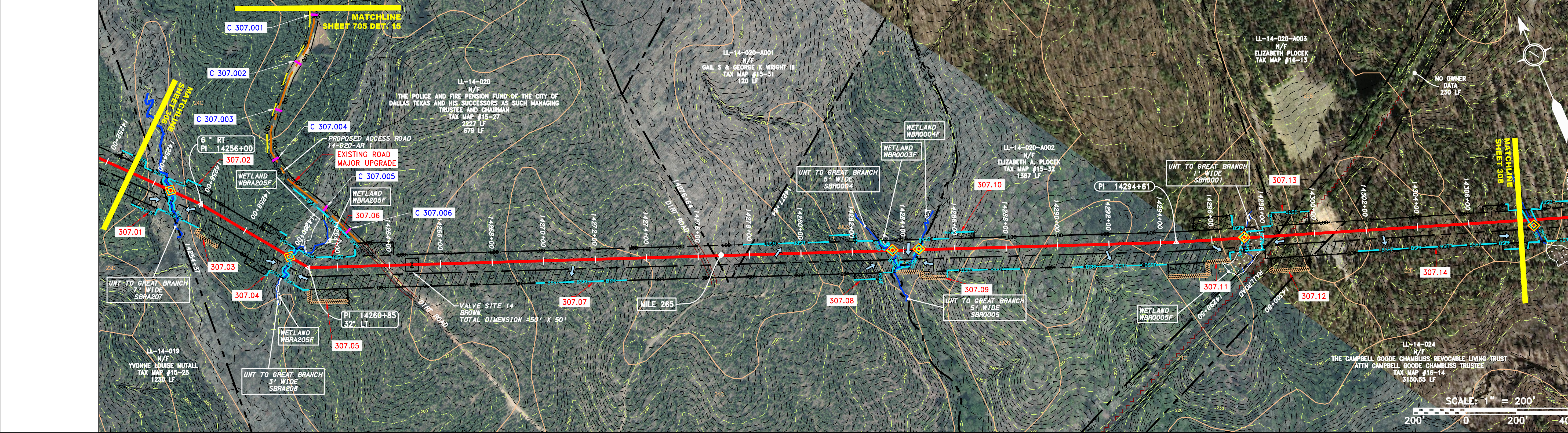
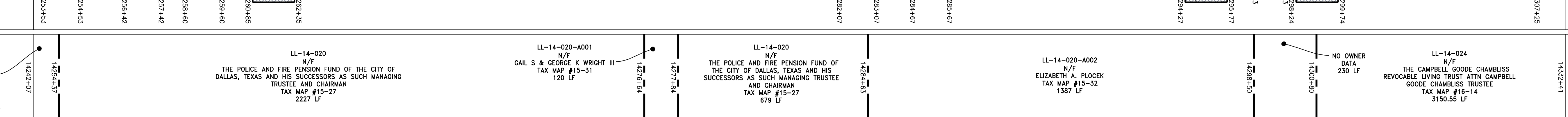
PROFILE VIEW
HORZ: 1" = 200'
VERT: 1" = 200'



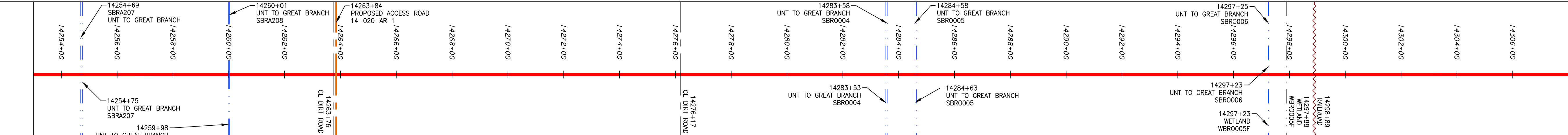
STATIONING & CONSTRUCTION LIMITS



PROPERTY OWNERSHIP



STRING VIEW BAND



LEGEND

- PROPERTY LINE
FENCE
STREAM
EXISTING GAS PIPELINE
OVERHEAD UTILITY LINES
ACCESS ROAD
PROPOSED GAS PIPELINE
STORM SEWER
UNDERGROUND ELECTRIC
WATER LINE
SANITARY SEWER
EDGE OF GRAVEL
PROPOSED PERMANENT EASEMENT
PROPOSED GAS PIPELINE (NO GROUND SURVEY)
EXTRA WORK SPACE
TOPSOIL SEGREGATION AREA
AREA OF NO DISTURBANCE
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
SLOPE
SLOPE DIRECTION
CONSTRUCTION ENTRANCE WITH DITCH
CULVERT AS NEEDED
CULVERT/WATERBAR
LOD
BSRF
LIMIT OF DISTURBANCE
BELTED SILT RETENTION FENCE (BSRF)
COMPOST FILTER SOCK
CULVERT IDENTIFICATION
GRADE 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°.
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 ON THE DRAWINGS WAS PROVIDED BY ERM.
5. EROSION AND SEDIMENTATION CONTROL ELEMENTS MAY BE SHOWN OUTSIDE OF THE WORK AREAS FOR CLARITY ONLY. ACTUAL INSTALLATION SHALL BE WITHIN THE WORK AREAS.
6. ACCURACY OF THE RECORDS AS SHOWN ON THESE DRAWINGS.
7. ALL STATIONING SHOWN IS SLOPE STATIONING.
8. EROSION CONTROL BARRIERS 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.
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 IMPROVEMENT PLAN, SECTION V.A.5. IN ADDITION, WETLAND AND WATERBODY CROSSINGS WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS IN ACCORDANCE WITH NATIONWIDE PERMIT 12 (NWP) ISSUED BY THE U.S. CORPS OF ENGINEERS.

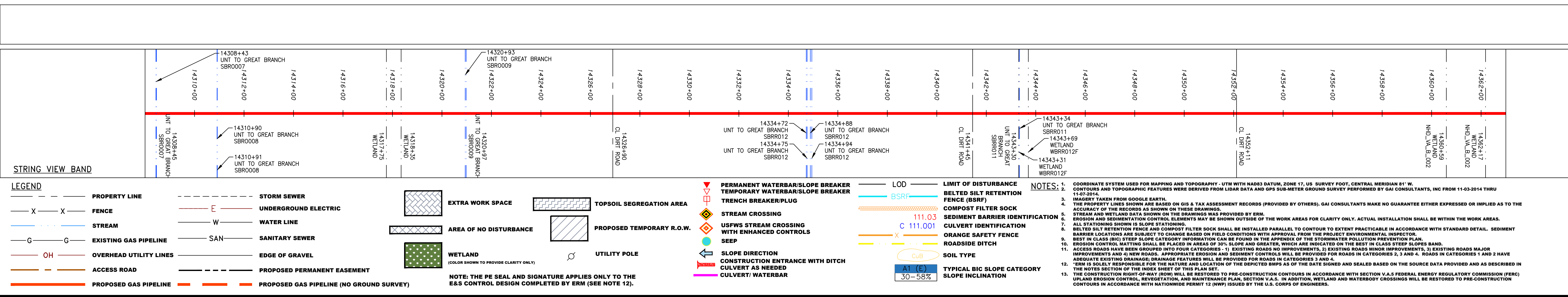
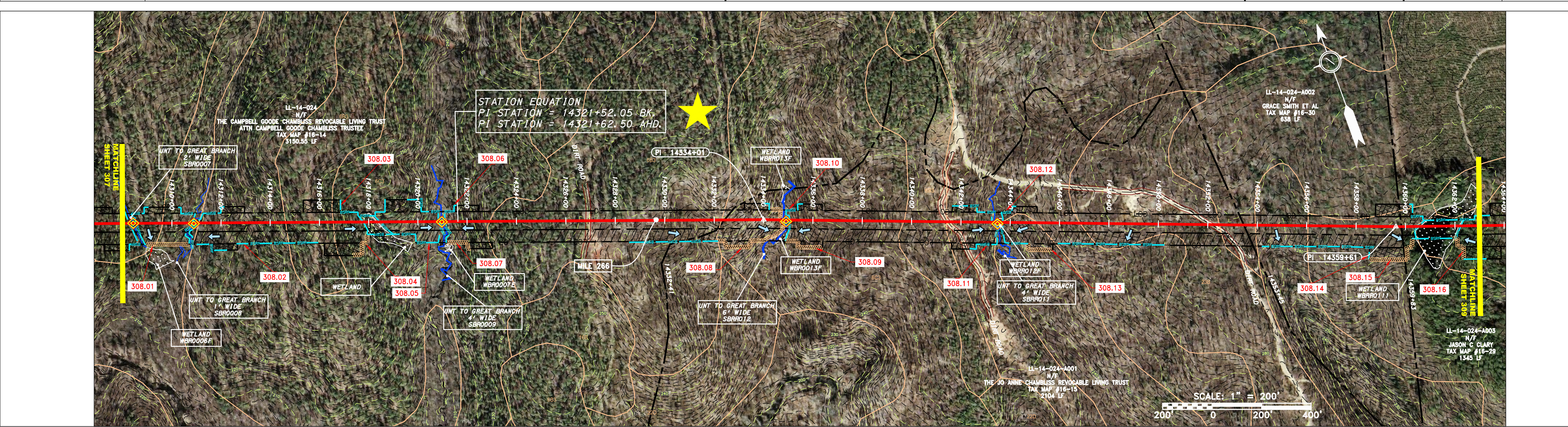
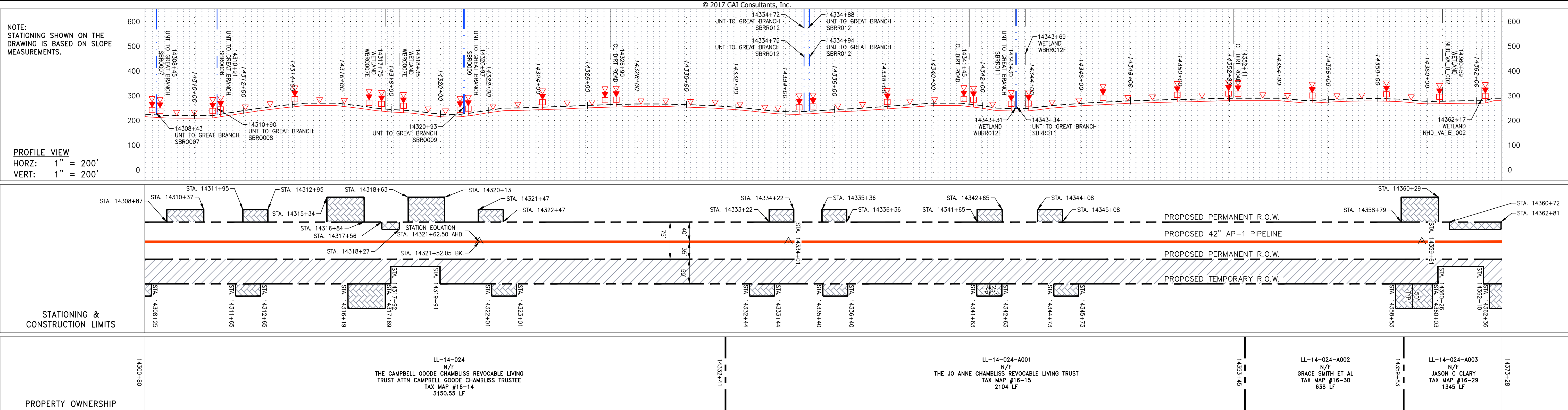
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ATLANTIC COAST PIPELINE, LLC
C/O DOMINION TRANSMISSION, INC.
925 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330

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

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

Table with columns: PROJECT NO./DASH NO., TASK NO., SUB TASK NO., GROUP ID, DRAWING NO. Values: C140468, 005, 00, D, E307.



REVISIONS

NO.	DATE	CHD.	APPD.	DESCRIPTION

Professional Engineer
 DANIEL R. GOLDSTEIN
 Lic No. 047436

ERM

42" AP-1 PIPELINE
 CONSTRUCTION ALIGNMENT STA. 14308+00 TO 14363+00
 BRUNSWICK 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.
 CANNONBURG, PA 15317
 724-873-3545

PROJECT NO./DASH NO.
 C140468

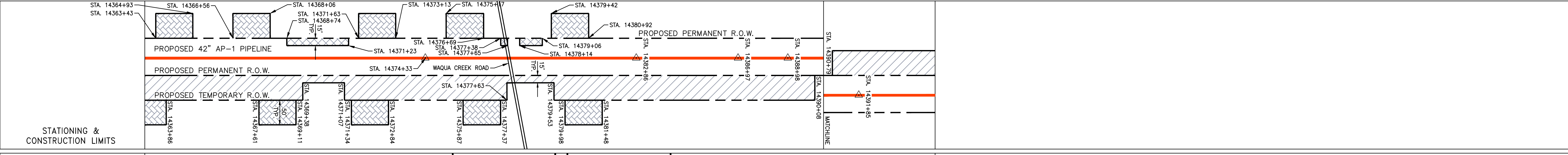
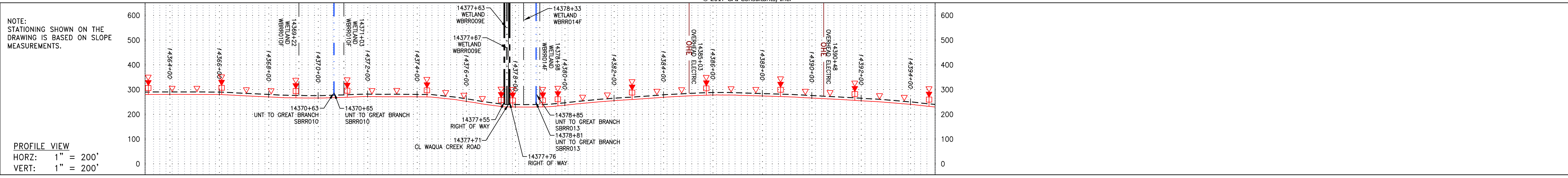
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 005 00

GROUP ID DRAWING NO.
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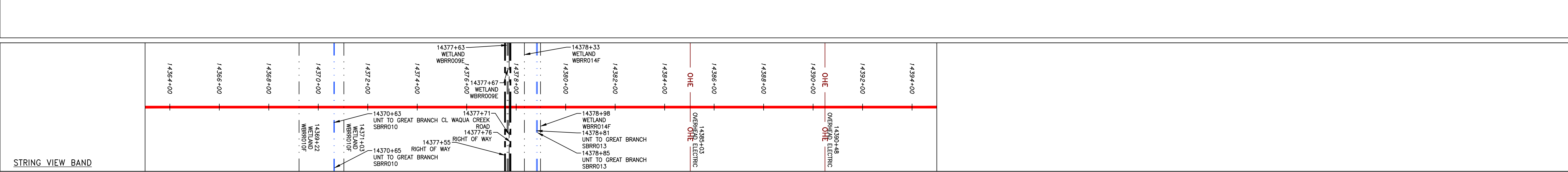
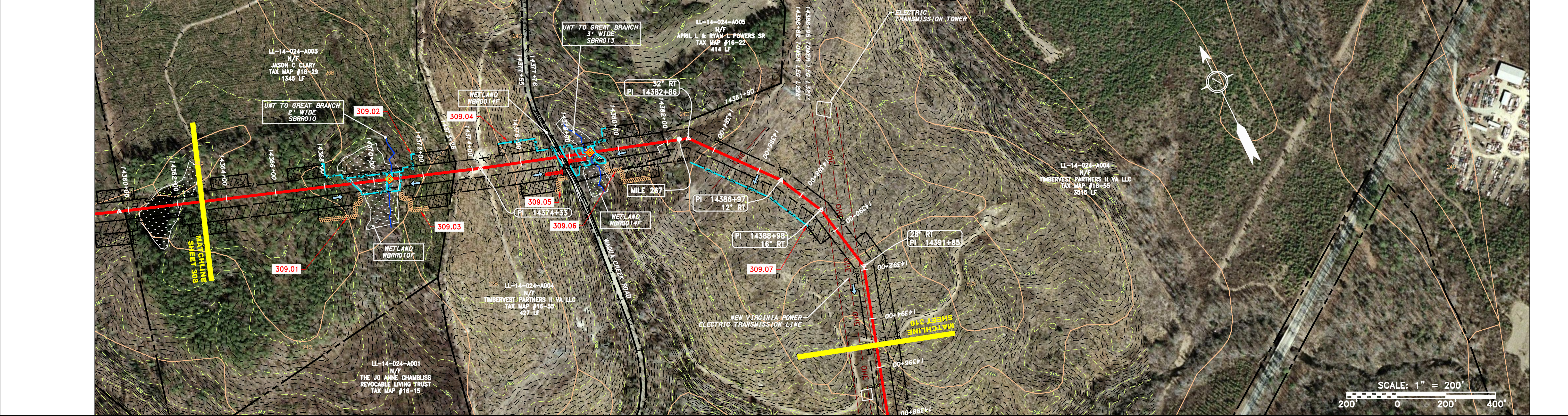
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4/3/2017 3:55 PM

GAI CAD FILE NO. I:\DOMINION\AP-1\ESC\CADD-GIS\DATA\KST_CHK1_SPREAD_7_ESC_SHT_308.DWG



PROPERTY OWNERSHIP	ADDRESS	OWNER	ACRES
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14373+28	LL-14-024-A004	N/F TIMBERVEST PARTNERS II VA LLC TAX MAP #16-55 427 LF	
14377+55	LL-14-024-A005	N/F APRIL L & RYAN L POWERS SR TAX MAP #16-22 414 LF	
14381+90	LL-14-024-A004	N/F TIMBERVEST PARTNERS II VA LLC TAX MAP #16-55 3515 LF	
14417+05			



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 (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/WATERBAR
—	LOD
—	BSRF
—	COMPOST FILTER SOCK
—	SEDIMENT BARRIER IDENTIFICATION
—	ORANGE SAFETY FENCE
—	ROADSIDE DITCH
—	SOIL TYPE
—	TYPICAL BIC SLOPE CATEGORY
—	SLOPE INCLINATION

NO.	DATE	BY	CHKD.	APPD.	DESCRIPTION
					REVISIONS

Daniel R. Goldstein
 DANIEL R. GOLDSTEIN
 Lic No. 047436

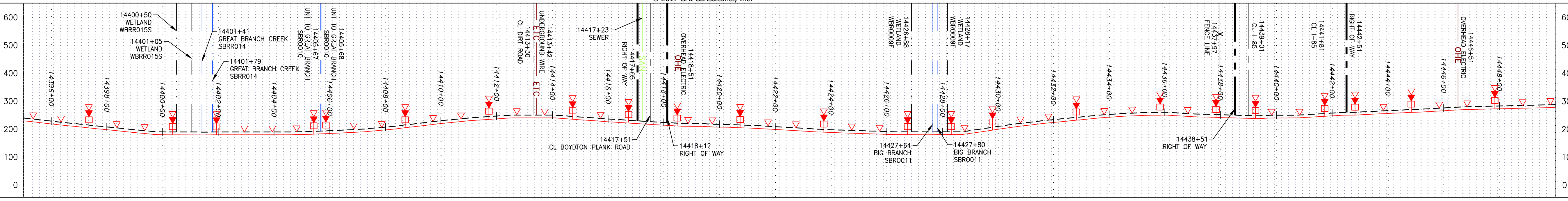
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DRAWN:	SAQ
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APPROVED:	NET

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

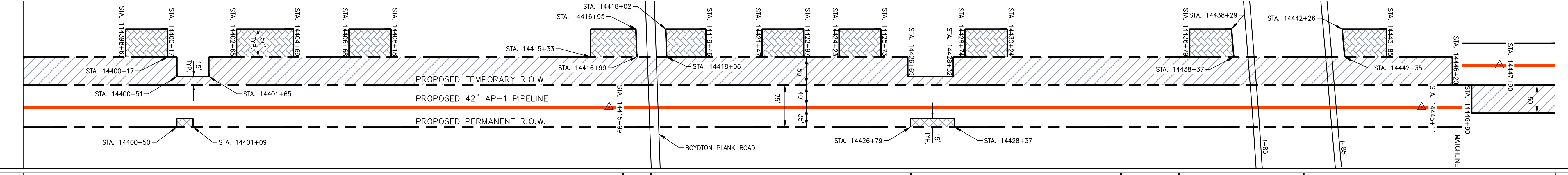
PROJECT NO./DASH NO.	C140468
TASK NO./SUB TASK NO.	005 / 00
GROUP ID / DRAWING NO.	D / E309
309 OF 344	

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

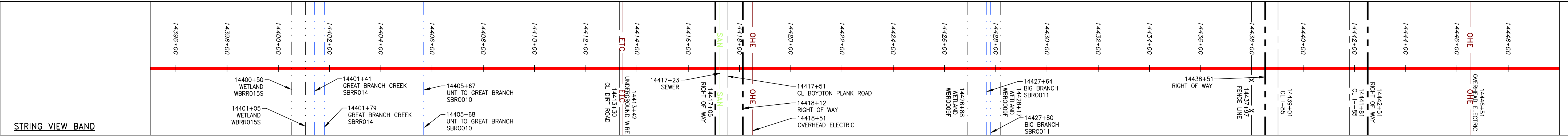
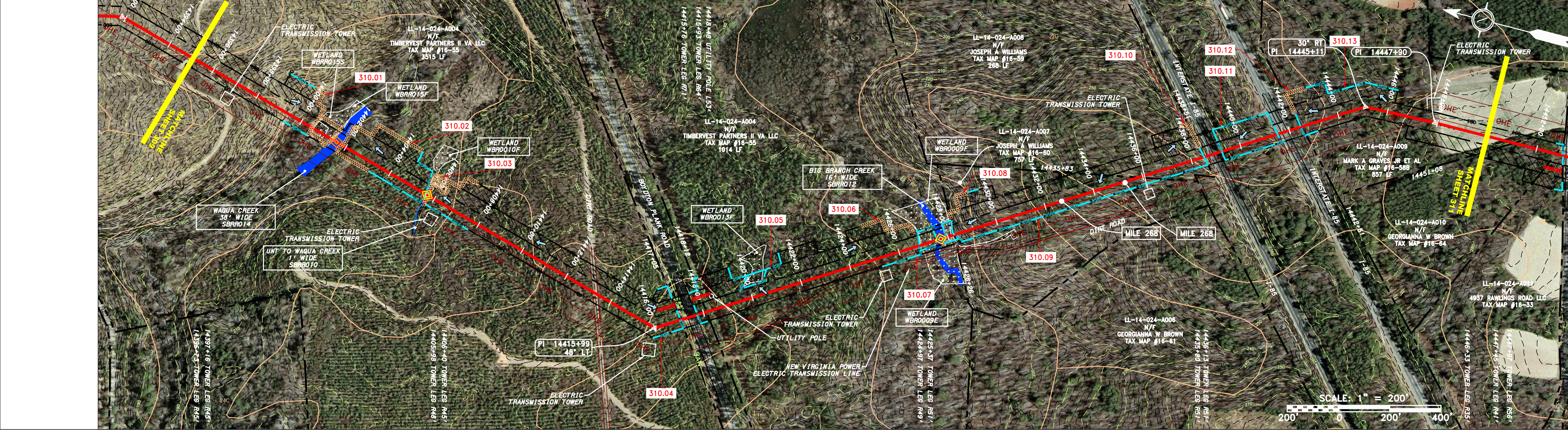
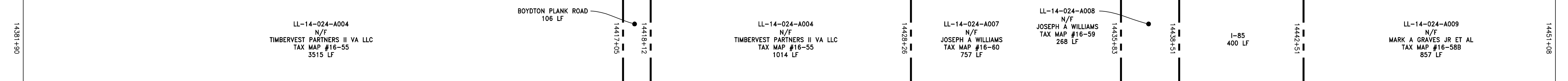
PROFILE VIEW
HORIZ: 1" = 200'
VERT: 1" = 200'



STATIONING & CONSTRUCTION LIMITS



PROPERTY OWNERSHIP



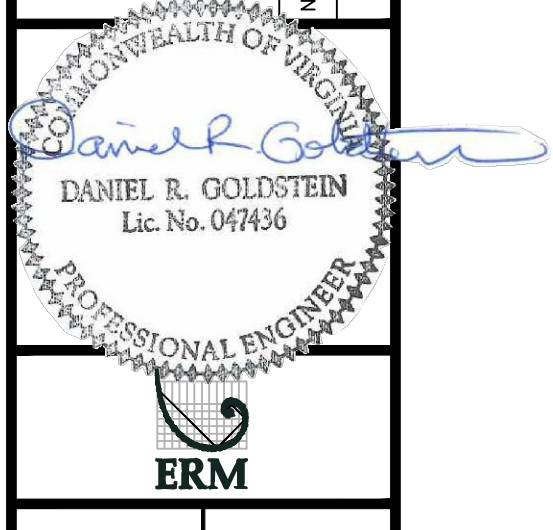
LEGEND

- PROPERTY LINE
- - - STORM SEWER
- X X FENCE
- STREAM
- G G EXISTING GAS PIPELINE
- OH OVERHEAD UTILITY LINES
- ACCESS ROAD
- PROPOSED GAS PIPELINE
- UNDERGROUND ELECTRIC
- W WATER LINE
- SAN SANITARY SEWER
- EDGE OF GRAVEL
- PROPOSED PERMANENT EASEMENT
- PROPOSED GAS PIPELINE (NO GROUND SURVEY)
- EXTRA WORK SPACE
- AREA OF NO DISTURBANCE
- WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)
- TOPSOIL SEGREGATION AREA
- PROPOSED TEMPORARY R.O.W.
- UTILITY POLE
- PERMANENT WATERBAR/SLOPE BREAKER
- TEMPORARY WATERBAR/SLOPE BREAKER
- TRENCH BREAKER/PLUG
- STREAM CROSSING
- USPWS STREAM CROSSING WITH ENHANCED CONTROLS
- 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 ON THE DRAWINGS MAY BE BASED ON GIS TAX ASSESSMENT RECORDS (PROVIDED BY OTHERS). GAI CONSULTANTS MAKE NO GUARANTEE EITHER EXPRESSED OR IMPLIED AS TO THE ACCURACY OF THE RECORDS AS SHOWN ON THESE DRAWINGS.
- ALL STATIONING SHOWN IS SLOPE STATIONING.
- 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 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 INSTRUMENT PLAN, SECTION V.A.5. IN ADDITION, WETLAND AND WATERBODY CROSSINGS WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS IN ACCORDANCE WITH NATIONAL PERMIT 12 (NWP) ISSUED BY THE U.S. CORPS OF ENGINEERS.

NO.	DATE	CHD.	APPD.	DESCRIPTION



42" AP-1 PIPELINE
CONSTRUCTION ALIGNMENT STA. 14395+00 TO 14450+00
BRUNSWICK 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

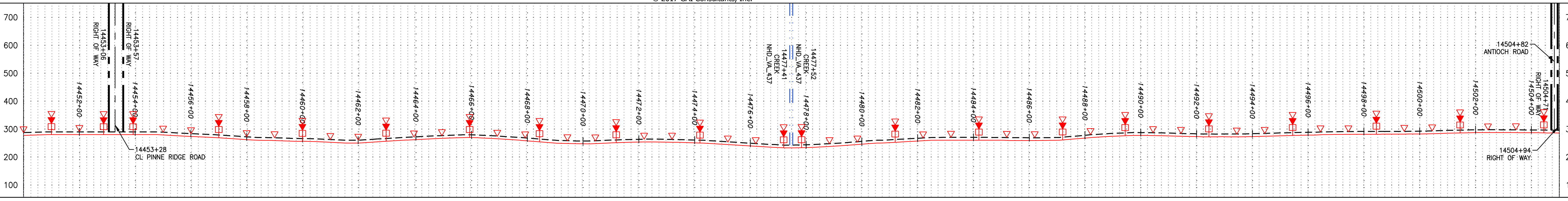


SOUTHPOINTE OFFICE
6000 TOWN CENTER BLVD.
CANONSBURG, PA 15317
724-873-3545

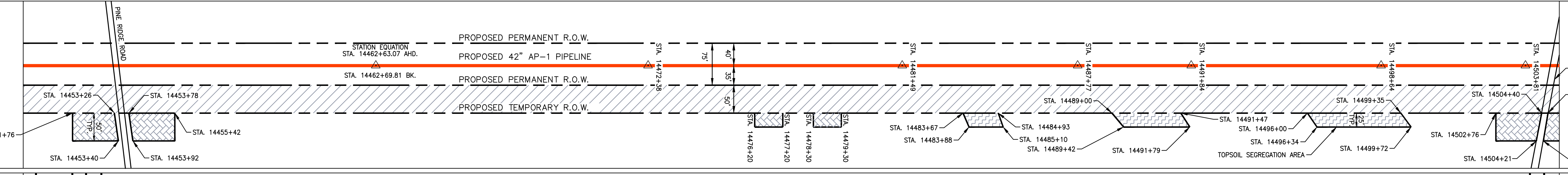
PROJECT NO./DASH NO.	C140468
TASK NO. SUB TASK NO.	005 00
GROUP ID DRAWING NO.	D E310
310 OF 344	

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

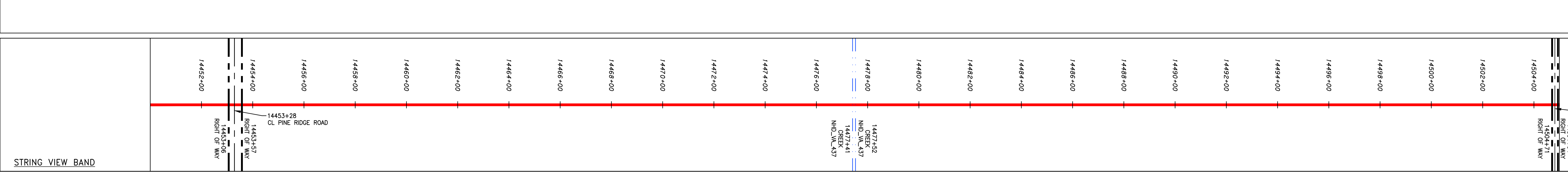
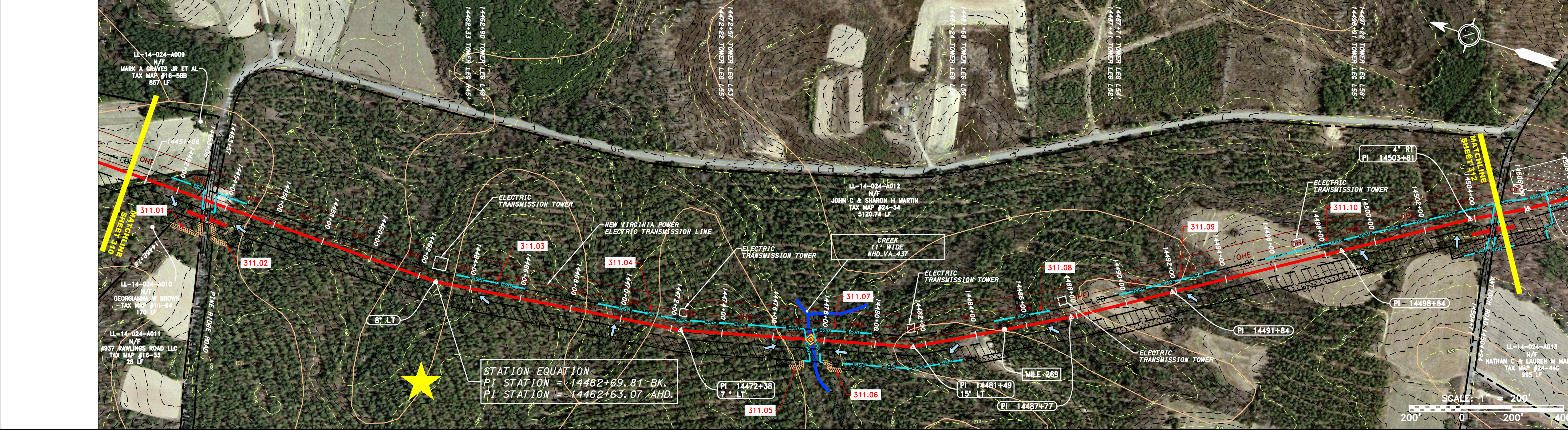
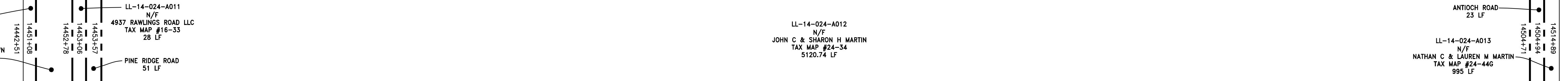
PROFILE VIEW
 HORZ: 1" = 200'
 VERT: 1" = 200'



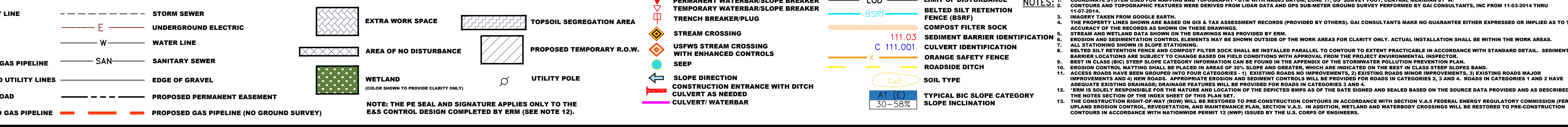
STATIONING & CONSTRUCTION LIMITS



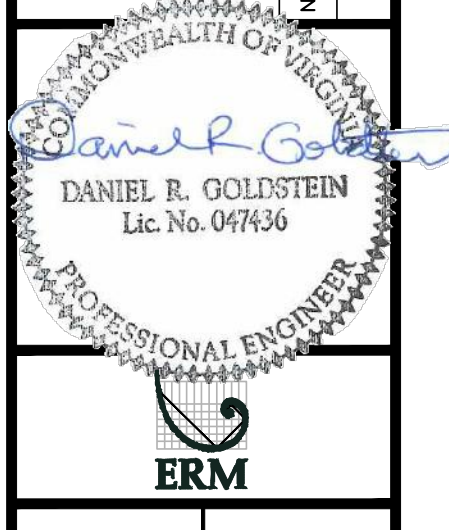
PROPERTY OWNERSHIP



LEGEND



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:	SAQ
CHECKED:	DLH
APPROVED:	NET

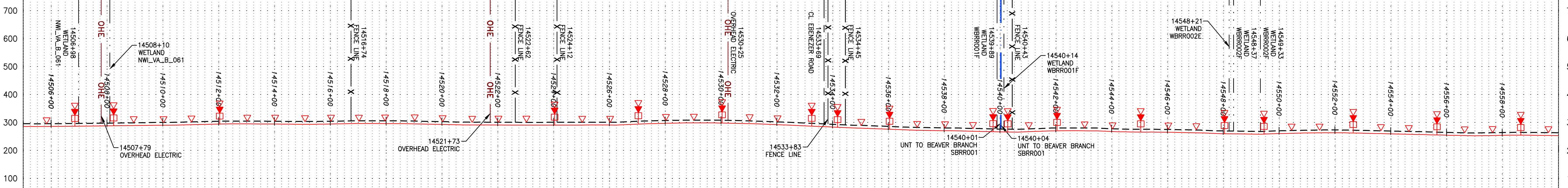


SOUTHPOINTE OFFICE
 6000 TOWN CENTER BLVD.
 CANONSBURG, PA 15317
 724-873-3545

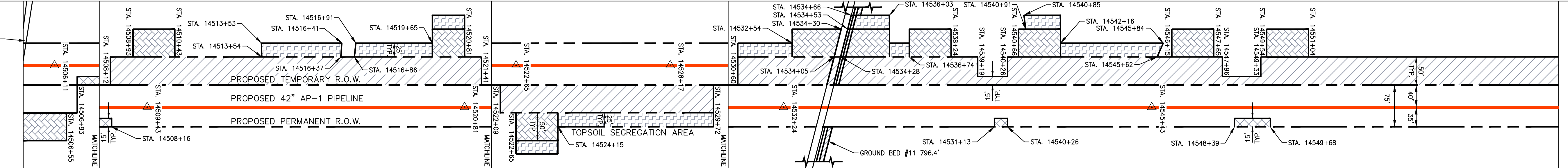
PROJECT NO./DASH NO.	C140468
TASK NO. SUB TASK NO.	005 00
GROUP ID DRAWING NO.	D E311
311 OF 344	

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

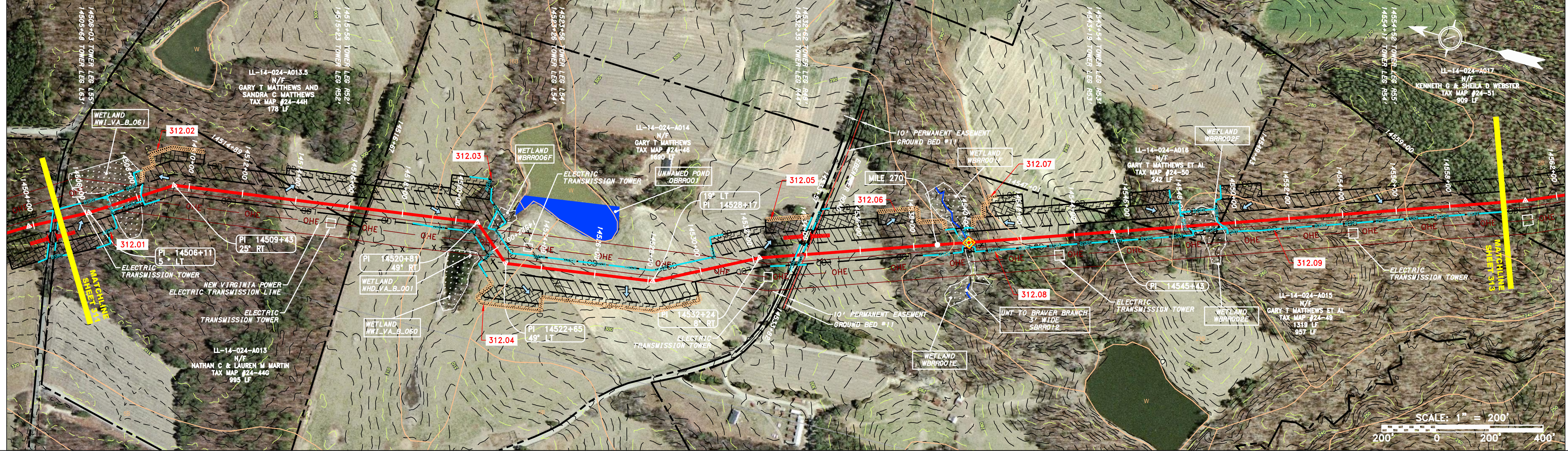
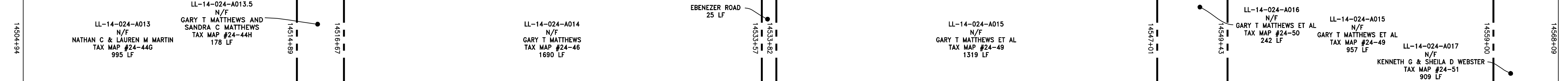
PROFILE VIEW
 HORZ: 1" = 200'
 VERT: 1" = 200'



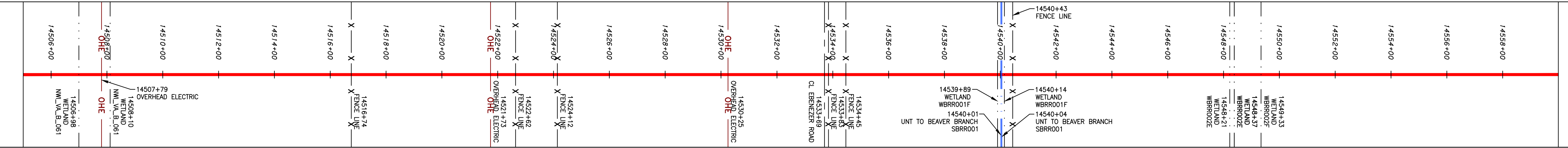
STATIONING & CONSTRUCTION LIMITS



PROPERTY OWNERSHIP



STRING VIEW BAND



LEGEND

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

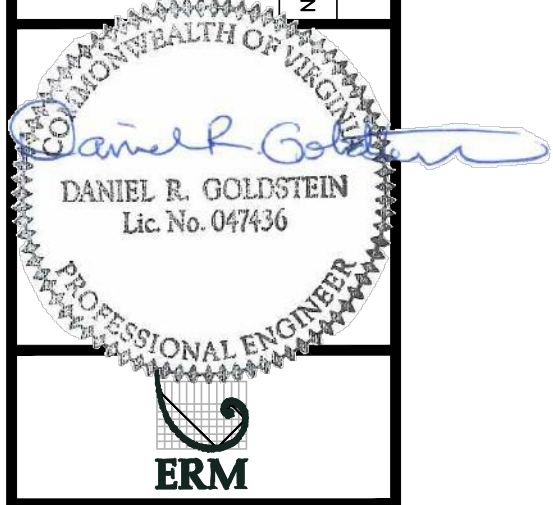
- PERMANENT WATERBAR/SLOPE BREAKER
- TEMPORARY WATERBAR/SLOPE BREAKER
- TRENCH BREAKER/PLUG
- STREAM CROSSING
- USPWS STREAM CROSSING WITH ENHANCED CONTROLS
- SEEP
- SLOPE DIRECTION
- CONSTRUCTION ENTRANCE WITH DITCH
- CULVERT AS NEEDED
- CULVERT/WATERBAR
- LOD
- BSRF
- 111.03
- C 111.001
- X
- SOIL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

NOTES:

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- EROSION CONTROL MATING SHALL BE PLACED IN AREAS OF 3% SLOPE AND GREATER, WHICH ARE INDICATED ON THE BEST IN CLASS STEEP SLOPE BAND.
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- THE CONSTRUCTION RIGHT-OF-WAY (ROW) WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS IN ACCORDANCE WITH SECTION V.A.5 FEDERAL ENERGY REGULATORY COMMISSION (FERC) UP-LAND EROSION CONTROL, REVEGETATION, AND MAINTENANCE PLAN, SECTION V.A.5. IN ADDITION, WETLAND AND WATERBODY CROSSINGS WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS IN ACCORDANCE WITH NATIONWIDE PERMIT 12 (NWP) ISSUED BY THE U.S. CORPS OF ENGINEERS.

REVISIONS

NO.	DATE	BY	APPD.	DESCRIPTION



42" AP-1 PIPELINE
 CONSTRUCTION ALIGNMENT STA. 14505+00 TO 14560+00
 BRUNSWICK 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



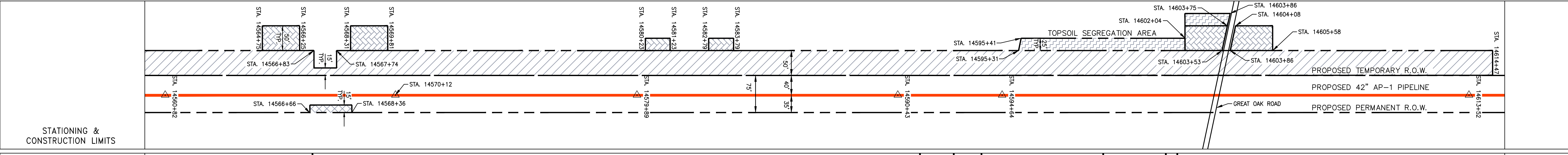
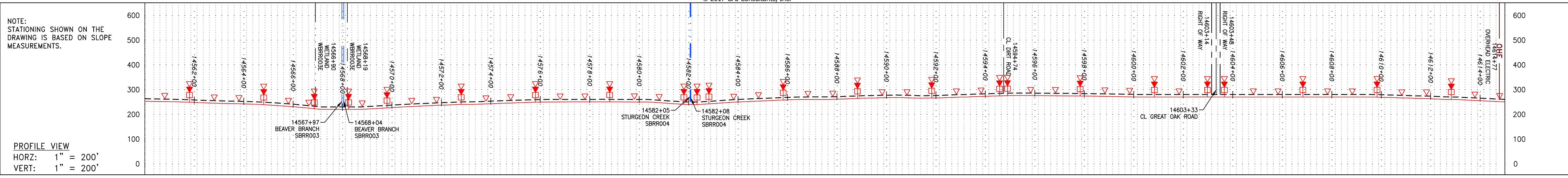
SOUTHPOINTE OFFICE
 6000 TOWN CENTER BLVD.
 CANONSBURG, PA 15317
 724-873-3545

PROJECT NO./DASH NO.
 C140468

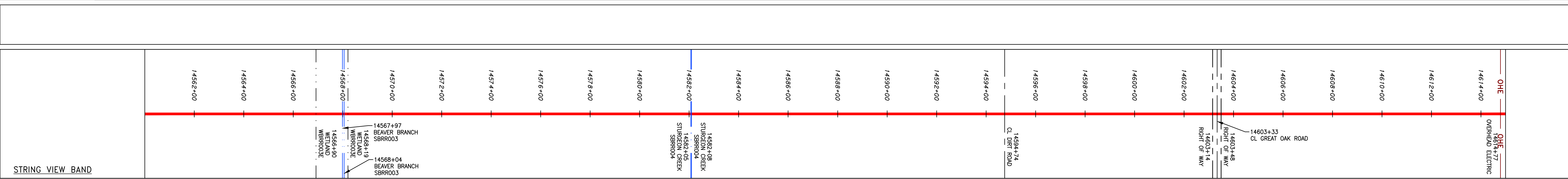
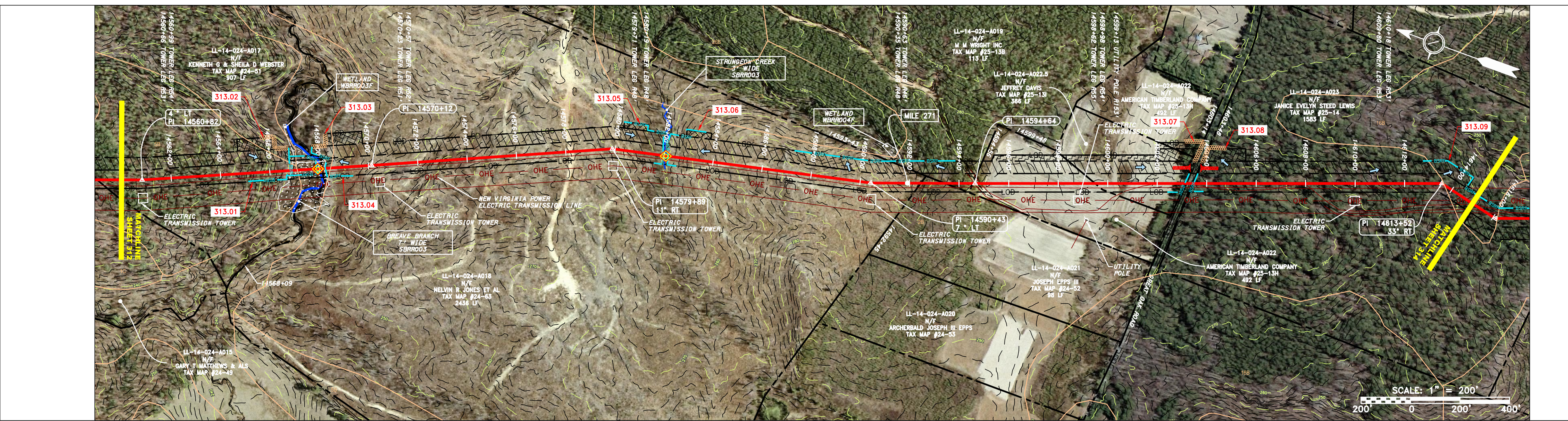
TASK NO. SUB TASK NO.
 005 00

GROUP ID DRAWING NO.
 D E312

312 OF 344



PROPERTY OWNERSHIP	STATIONING
LL-14-024-A017 KENNETH G & SHEILA D WEBSTER TAX MAP #24-51 909 LF	14560+00 to 14568+00
LL-14-024-A018 NELVIN R JONES ET AL TAX MAP #24-63 2436 LF	14568+00 to 14590+00
LL-14-024-A019 N/F M M WRIGHT INC TAX MAP #25-13B 113 LF	14590+00 to 14594+00
LL-14-024-A021 N/F JOSEPH EPPS III TAX MAP #24-52 98 LF	14594+00 to 14598+00
LL-14-024-A022 N/F AMERICAN TIMBERLAND COMPANY TAX MAP #25-13H 492 LF	14598+00 to 14603+00
LL-14-024-A023 N/F JANICE EVELYN STEED LEWIS TAX MAP #25-14 1585 LF	14603+00 to 14615+00



LEGEND

— X — X —	PROPERTY LINE	— E —	STORM SEWER	— W —	UNDERGROUND ELECTRIC	— G — G —	EXISTING GAS PIPELINE	— OH —	OVERHEAD UTILITY LINES	—	ACCESS ROAD	—	PROPOSED PERMANENT EASEMENT	—	PROPOSED GAS PIPELINE (NO GROUND SURVEY)
—	STORM SEWER	—	UNDERGROUND ELECTRIC	—	WATER LINE	—	EXISTING GAS PIPELINE	—	OVERHEAD UTILITY LINES	—	ACCESS ROAD	—	PROPOSED PERMANENT EASEMENT	—	PROPOSED GAS PIPELINE (NO GROUND SURVEY)
—	PROPERTY LINE	—	STORM SEWER	—	UNDERGROUND ELECTRIC	—	EXISTING GAS PIPELINE	—	OVERHEAD UTILITY LINES	—	ACCESS ROAD	—	PROPOSED PERMANENT EASEMENT	—	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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- ALL STATISTICS SHOWN IN SLOPE STATIONING.
- 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.
- BARRIER LOCATIONS ARE SUBJECT TO CHANGE IN ACCORDANCE WITH APPROVAL FROM THE PROJECT ENVIRONMENTAL INSPECTOR.
- BEST IN CLASS (BIC) STEEP SLOPE CATEGORY INFORMATION CAN BE FOUND IN THE APPENDIX OF THE STORMWATER POLLUTION PREVENTION PLAN.
- EROSION CONTROL MATING SHALL BE PLACED IN AREAS OF 3% SLOPE AND GREATER, WHICH ARE INDICATED ON THE BEST IN CLASS STEEP SLOPE BAND.
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REVISIONS

NO.	DATE	BY	CHKD.	APPD.	DESCRIPTION

Professional Engineer
 Daniel R. Goldstein
 Lic. No. 047436

ERM

42" AP-1 PIPELINE
 CONSTRUCTION ALIGNMENT STA. 14560+00 TO 14615+00
 BRUNSWICK 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.
 CANNONBURG, PA 15317
 724-873-3545

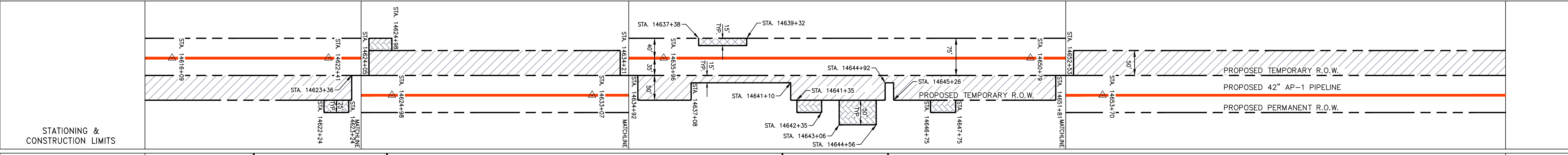
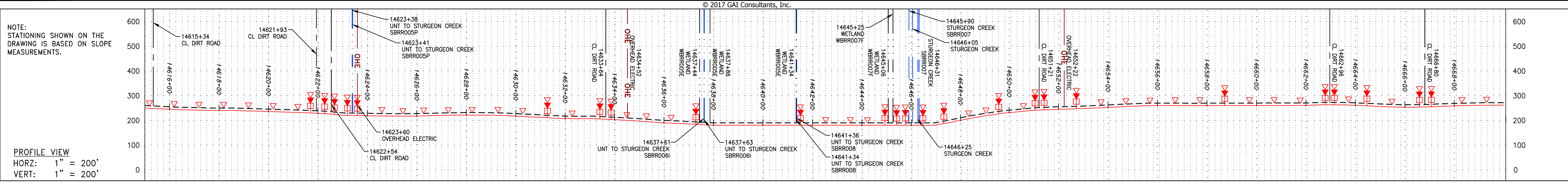
PROJECT NO./DASH NO.
 C140468

TASK NO. SUB TASK NO.
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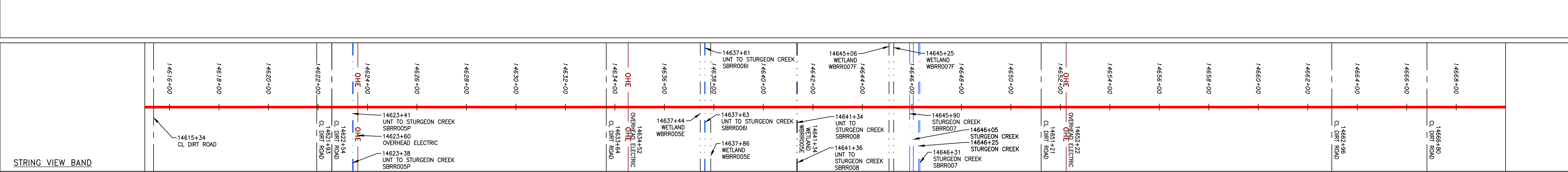
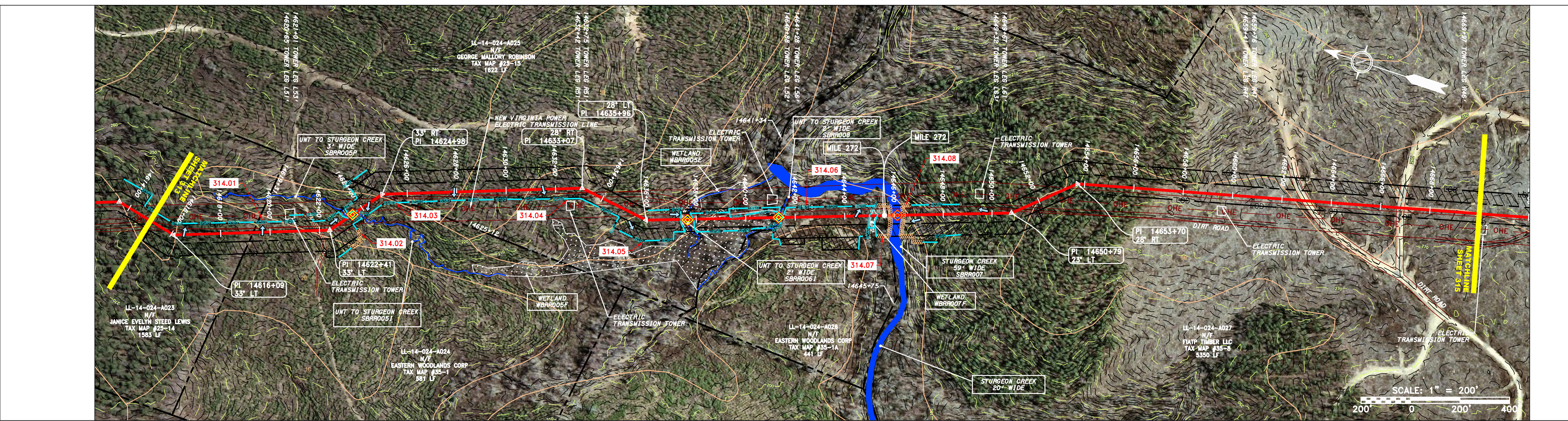
GROUP ID DRAWING NO.
 D E313

313 OF 344

4/1/2017 2:14 PM



PROPERTY OWNERSHIP	14603+48	14615+00	14623+12	14637+00	14641+34	14645+75	14653+25
LL-14-024-A023 N/F JANICE EVELYN STEED LEWIS TAX MAP #25-14 1585 LF							
LL-14-024-A024 N/F EASTERN WOODLANDS CORP TAX MAP #35-1 581 LF							
LL-14-024-A025 N/F GEORGE MALLORY ROBINSON TAX MAP #25-15 1622 LF							
LL-14-024-A026 N/F EASTERN WOODLANDS CORP TAX MAP #35-1A 441 LF							
LL-14-024-A027 N/F FIATP TIMBER LLC TAX MAP #35-8 5350 LF							



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

NOTES:

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- 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.
- BRUSH 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 MAJOR IMPROVEMENTS AND 3) NEW ROADS. APPROPRIATE BRUSH 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.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

REVISIONS

DANIEL R. GOLDSTEIN
 Lic. No. 047436
ERM

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

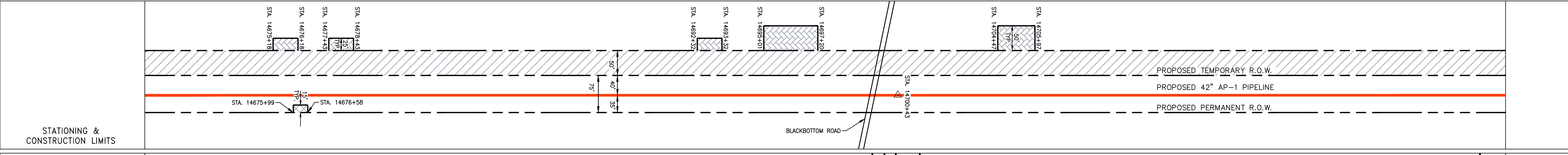
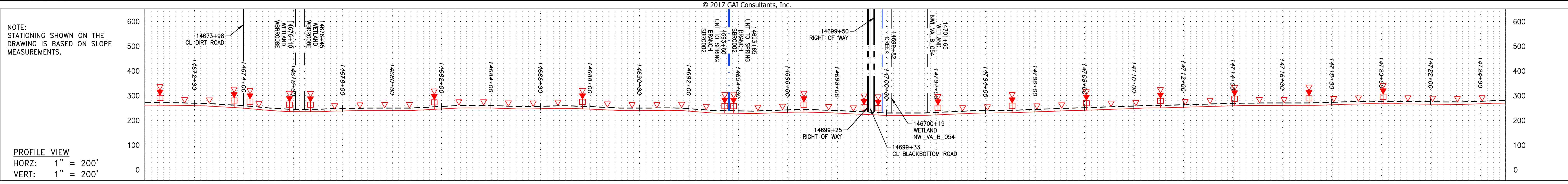
SCALE: AS SHOWN
 DATE: 11/23/2016
 DRAWN: SAQ
 CHECKED: DLH
 APPROVED: NET

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

PROJECT NO./DASH NO.
 C140468
 TASK NO. SUB TASK NO.
 005 00
 GROUP ID DRAWING NO.
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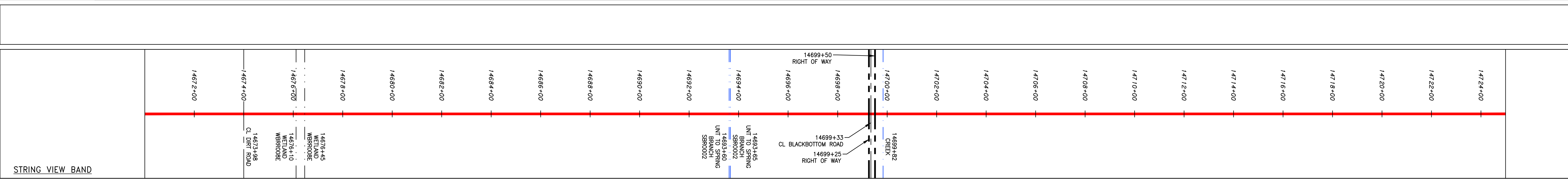
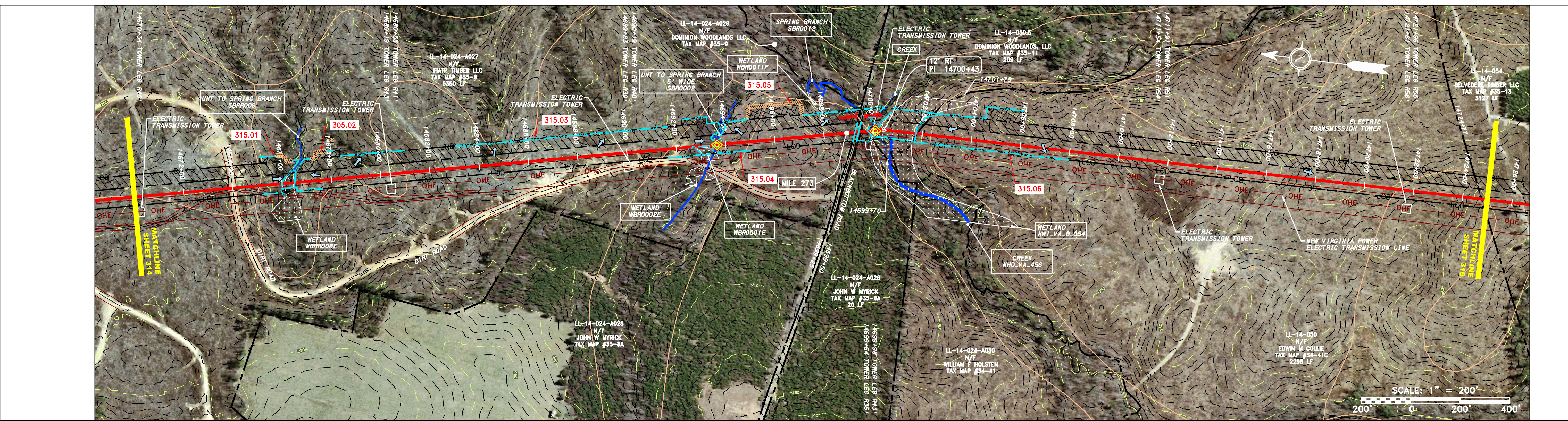
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PROPERTY OWNERSHIP

14654+75	LL-14-024-A027 N/F FIATP TIMBER LLC TAX MAP #35-8 5350 LF	14699+50 RIGHT OF WAY	14699+25 RIGHT OF WAY	14700+00	LL-14-050.5 N/F DOMINION WOODLANDS, LLC TAX MAP #35-11 209 LF	14705+00	LL-14-050 N/F EDWIN M COLLIE TAX MAP #34-41C 2298 LF	14724+00	LL-14-054 N/F BEVELERE TIMBER LLC TAX MAP #35-13 3127 LF
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LEGEND

—	PROPERTY LINE	—	STORM SEWER	▨	EXTRA WORK SPACE	▨	TOPSOIL SEGREGATION AREA	▨	PERMANENT WATERBAR/SLOPE BREAKER	—	LOD	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	2.	CONTOURS AND TOPOGRAPHIC FEATURES WERE DERIVED FROM LIDAR DATA AND GPS SUB-METER GROUND SURVEY PERFORMED BY GAI CONSULTANTS, INC FROM 11-03-2014 THRU 11-07-2014.
—	STREAM	W	WATER LINE	▨	WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)	▨	UTILITY POLE	▨	TRENCH BREAKER/PLUG	—	111.03	3.	IMAGERY TAKEN FROM GOOGLE EARTH.
G G	EXISTING GAS PIPELINE	SAN	SANITARY SEWER	▨	NOTE: THE PE SEAL AND SIGNATURE APPLIES ONLY TO THE E&S CONTROL DESIGN COMPLETED BY ERM (SEE NOTE 12).	▨		▨	STREAM CROSSING	—	C 111.00	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	5.	ALL STATIONING SHOWN IS SLOPE STATIONING.
—	ACCESS ROAD	—	PROPOSED PERMANENT EASEMENT	▨		▨		▨	SEEP	—	30-58%	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	—	AT (E)	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.
				▨		▨		▨	CONSTRUCTION ENTRANCE WITH DITCH	—	CuB	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 ARE SUBJECT TO CHANGE BASED ON FIELD CONDITIONS WITH APPROVAL FROM THE PROJECT ENVIRONMENTAL INSPECTOR.
				▨		▨		▨	CULVERT/WATERBAR	—	30-58%	9.	BEST IN CLASS (BIC) STEEP SLOPE CATEGORY INFORMATION CAN BE FOUND IN THE APPENDIX OF THE STORMWATER POLLUTION PREVENTION PLAN.

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 TRAP 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 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) UP-AND EROSION CONTROL, REVEGETATION, AND MAINTENANCE PLAN, SECTION V.A.5. IN ADDITION, WETLAND AND WATERBODY CROSSINGS WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS IN ACCORDANCE WITH NATIONWIDE PERMIT 12 (NWP) ISSUED BY THE U.S. CORPS OF ENGINEERS.

REVISIONS

NO.	DATE	BY	CHKD.	APPD.	DESCRIPTION

DANIEL R. GOLDSTEIN
 Lic No. 047436
 PROFESSIONAL ENGINEER

42" AP-1 PIPELINE
CONSTRUCTION ALIGNMENT STA. 14670+00 TO 14725+00
 BRUNSWICK 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
 724-873-3545

PROJECT NO./DASH NO.
C140468

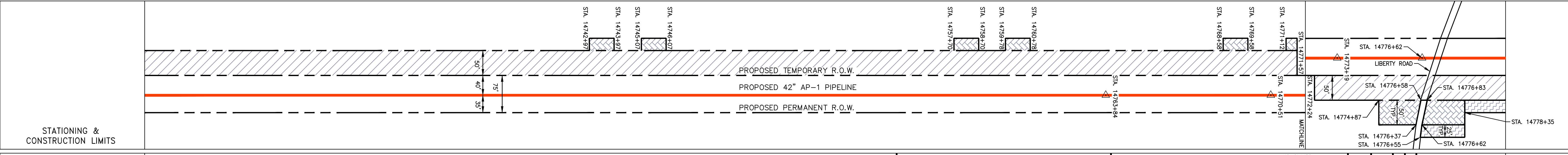
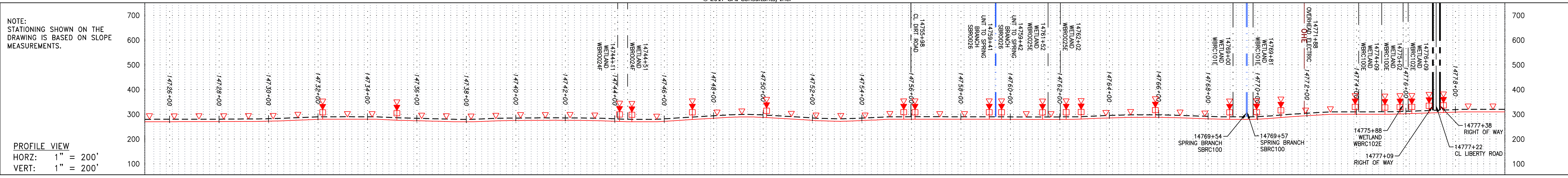
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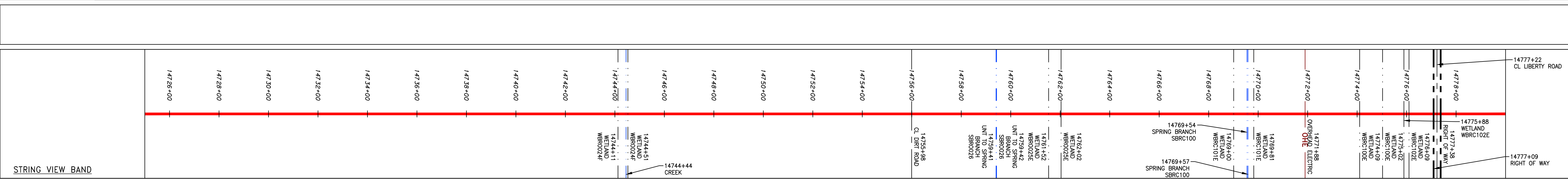
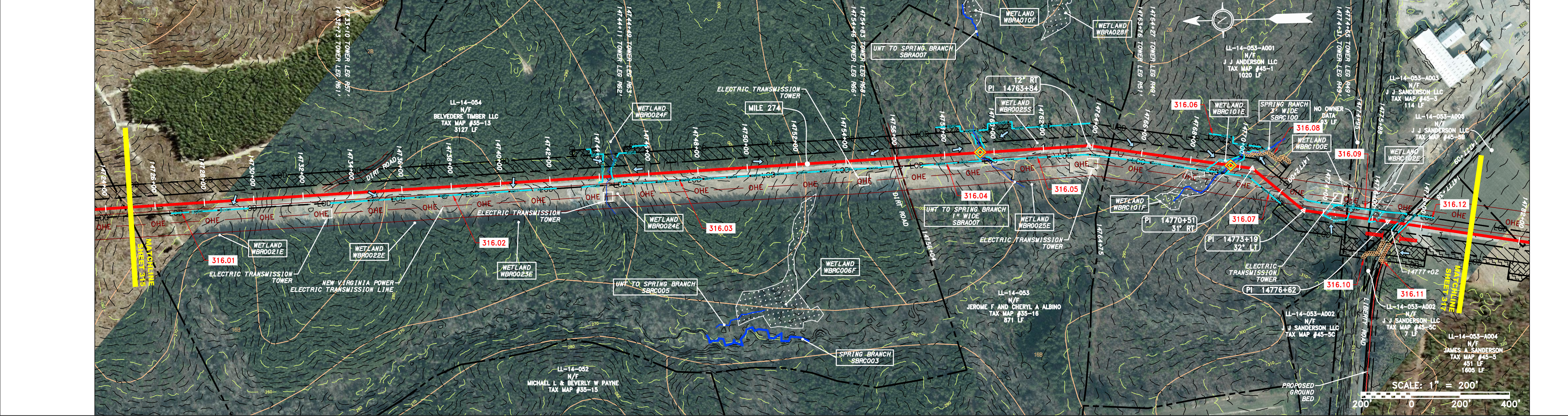
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PROPERTY OWNERSHIP	STATIONING
LL-14-054 N/F BEVERLY W PAYNE TAX MAP #35-15 3127 LF	14726+00 to 14744+00
LL-14-053 N/F JEROME F AND CHERYL A ALBINO TAX MAP #35-16 871 LF	14744+00 to 14764+00
LL-14-053-A001 N/F J J ANDERSON LLC TAX MAP #45-1 1020 LF	14764+00 to 14770+00
LL-14-053-A003 N/F J J SANDERSON LLC TAX MAP #45-3 114 LF	14770+00 to 14772+00
LL-14-053-A002 N/F J J SANDERSON LLC TAX MAP #45-5 1695 LF	14772+00 to 14774+00
LL-14-053-A004 N/F JAMES A SANDERSON TAX MAP #45-5C 7 LF	14774+00 to 14778+00



LEGEND

—	PROPERTY LINE	—	STORM SEWER	—	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	—	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	—	—	—	COMPOST FILTER SOCK	3.	IMAGERY TAKEN FROM GOOGLE EARTH.
G	EXISTING GAS PIPELINE	—	SANITARY SEWER	—	—	—	SEDIMENT BARRIER IDENTIFICATION	4.	ALL STATIONING SHOWN IS SLOPE STATIONING.
OH	OVERHEAD UTILITY LINES	—	EDGE OF GRAVEL	—	—	—	CULVERT IDENTIFICATION	5.	ACCURACY OF THE RECORDS AS SHOWN ON THESE DRAWINGS.
—	ACCESS ROAD	—	PROPOSED PERMANENT EASEMENT	—	—	—	ROADSIDE DITCH	6.	STREAM AND WETLAND DATA SHOWN ON THE DRAWINGS WAS PROVIDED BY ERM.
—	PROPOSED GAS PIPELINE	—	PROPOSED GAS PIPELINE (NO GROUND SURVEY)	—	—	—	SOIL TYPE	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.	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.6 FEDERAL ENERGY REGULATORY COMMISSION (FERC) UPLAND EROSION CONTROL, REVEGETATION, AND MAINTENANCE PLAN, SECTION V.6.5. 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.

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

REVISIONS

NO.	DATE	BY	APP'D.	DESCRIPTION

ERM
 DANIEL R. GOLDSTEIN
 Lic No. 047436
 PROFESSIONAL ENGINEER

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

42" AP-1 PIPELINE
 CONSTRUCTION ALIGNMENT STA. 14725+00 TO 14780+00
 BRUNSWICK 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
 724-673-3545

PROJECT NO./DASH NO.
 C140468

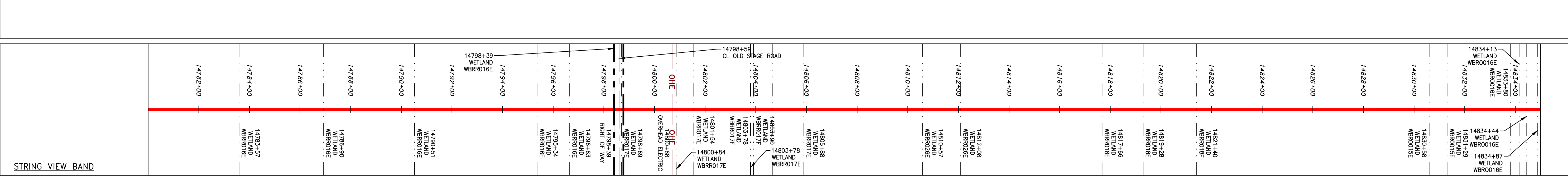
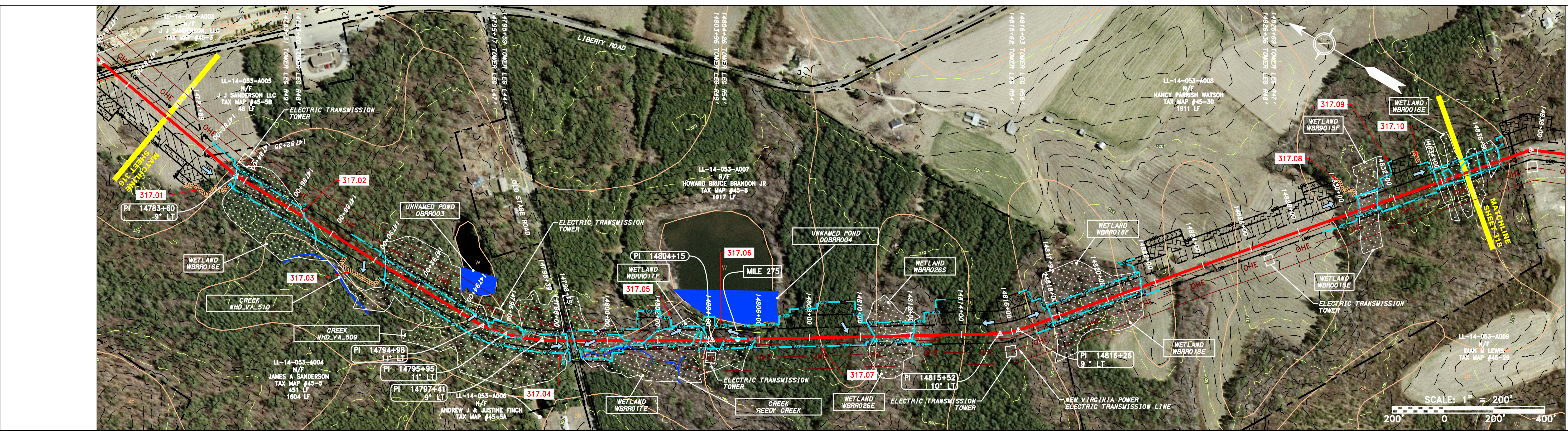
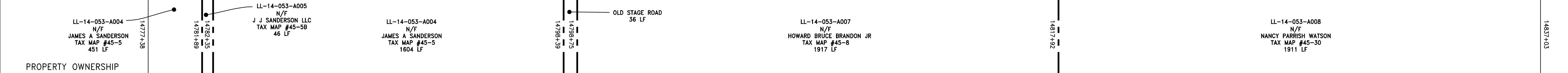
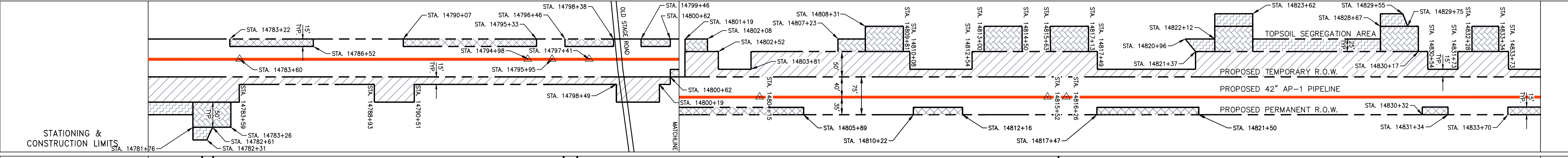
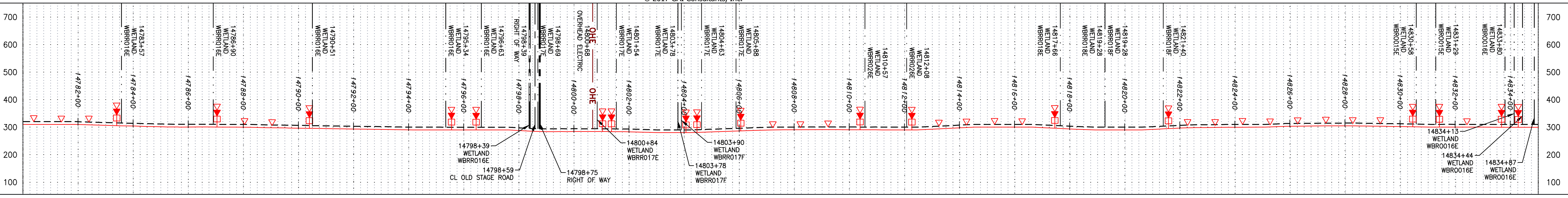
TASK NO. SUB TASK NO.
 005 00

GROUP ID DRAWING NO.
 D E316

316 OF 344

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

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



LEGEND

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

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.
- STREAM AND WETLAND DATA SHOWN ON THE DRAWINGS WERE PROVIDED BY ERM.
- ACCURACY OF THE RECORDS AS SHOWN ON THESE DRAWINGS.
- ALL STATIONING SHOWN IS SLOPE STATIONING.
- EROSION AND SEDIMENTATION CONTROL ELEMENTS MAY BE SHOWN OUTSIDE OF THE WORK AREAS FOR CLARITY ONLY. ACTUAL INSTALLATION SHALL BE WITHIN THE WORK AREAS.
- BARBER LOCATIONS ARE SUBJECT TO CHANGE BASED ON FIELD CONDITIONS WITH APPROVAL FROM THE PROJECT ENVIRONMENTAL INSPECTOR.
- BEST IN CLASS (BIC) STEEP SLOPE CATEGORY INFORMATION CAN BE FOUND IN THE APPENDIX OF THE STORMWATER POLLUTION PREVENTION PLAN.
- EROSION CONTROL MATING SHALL BE PLACED IN AREAS OF 3% SLOPE AND GREATER, WHICH ARE INDICATED ON THE BEST IN CLASS STEEP SLOPE BAND.
- ACCESS ROADS HAVE BEEN GROUPED INTO FOUR CATEGORIES - 1) EXISTING ROADS NO IMPROVEMENTS, 2) EXISTING ROADS MINOR IMPROVEMENTS, 3) EXISTING ROADS MAJOR IMPROVEMENTS AND 4) NEW ROADS. APPROPRIATE EROSION AND SEDIMENT CONTROLS WILL BE PROVIDED FOR ROADS IN CATEGORIES 2, 3 AND 4. ROADS IN CATEGORIES 1 AND 2 HAVE ADEQUATE EXISTING DRAINAGE/DRAINAGE FEATURES WILL BE PROVIDED FOR ROADS IN CATEGORIES 2 AND 4.
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NO.	DATE	BY	CHKD.	APPD.	DESCRIPTION

ERM

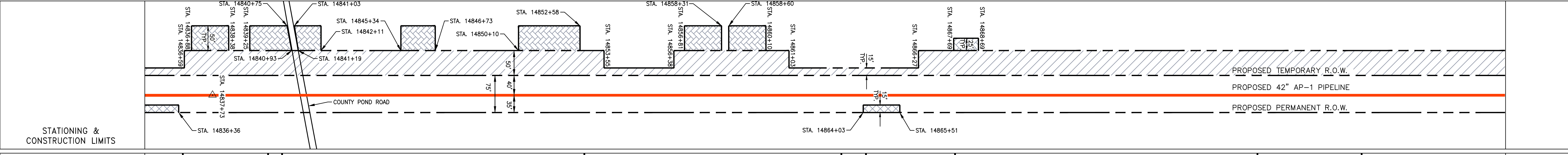
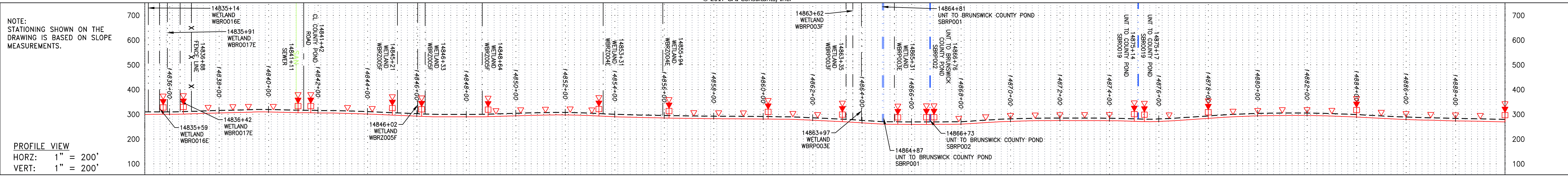
ATLANTIC COAST PIPELINE, LLC
 C/O DOMINION TRANSMISSION, INC.
 925 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330
 BRUNSWICK COUNTY, VIRGINIA

SCALE:	AS SHOWN
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DRAWN:	SAQ
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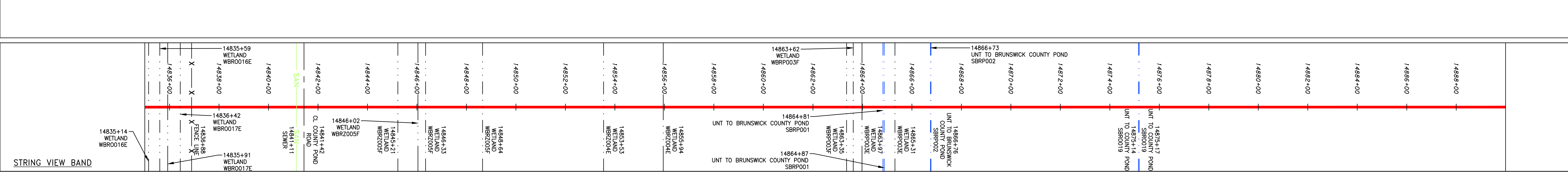
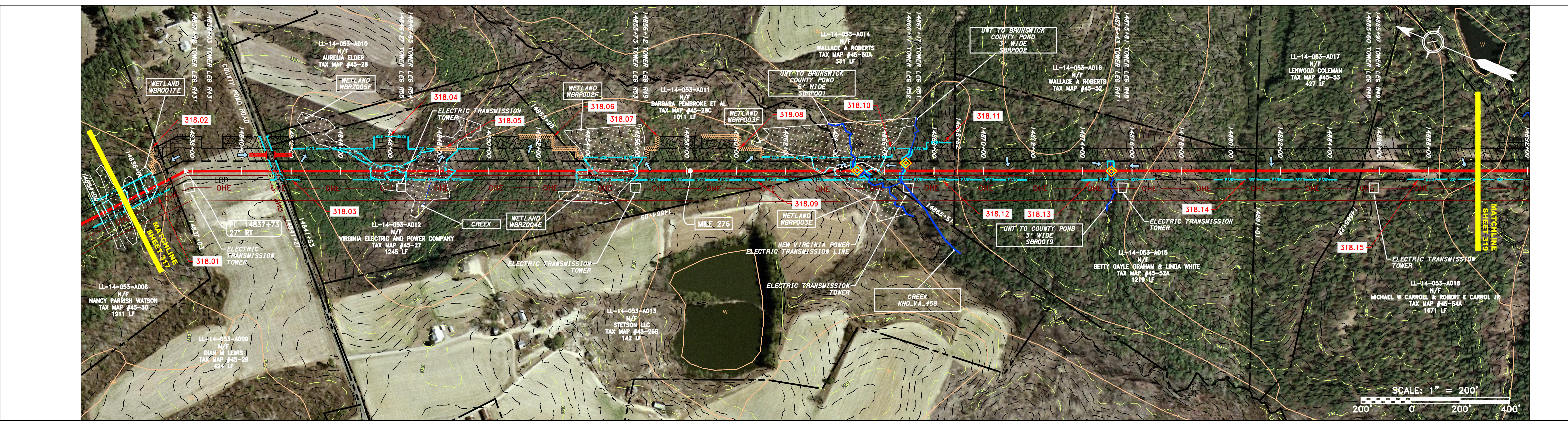


SOUTHPOINTE OFFICE
 6000 TOWN CENTER BLVD.
 CANONSBURG, PA 15317
 724-873-3545

PROJECT NO./DASH NO.	C140468
TASK NO./SUB TASK NO.	005 / 00
GROUP ID / DRAWING NO.	D / E317
317 OF 344	4/18/2017 2:24 PM



PROPERTY OWNERSHIP	ADDRESS	OWNER	TAX MAP	ACRES
LL-14-053-A008	NANCY PARRISH WATSON	N/F	TAX MAP #45-30	1911 LF
LL-14-053-A009	DIAN M LEWIS	N/F	TAX MAP #45-29	424 LF
LL-14-053-A010	AURELIA ELDER	N/F	TAX MAP #45-28	351 LF
LL-14-053-A011	BARBARA PEMBROKE ET AL	N/F	TAX MAP #45-28C	1011 LF
LL-14-053-A012	VIRGINIA ELECTRIC AND POWER COMPANY	N/F	TAX MAP #45-27	1245 LF
LL-14-053-A013	STETSON LLC	N/F	TAX MAP #45-28B	142 LF
LL-14-053-A014	WALLACE A ROBERTS	N/F	TAX MAP #45-50A	331 LF
LL-14-053-A015	BETTY GAYLE GRAHAM & LINDA WHITE	N/F	TAX MAP #45-52A	1219 LF
LL-14-053-A016	WALLACE A ROBERTS	N/F	TAX MAP #45-53	427 LF
LL-14-053-A017	LENWOOD COLEMAN	N/F	TAX MAP #45-53	427 LF
LL-14-053-A018	MICHAEL W CARROLL & ROBERT E CARROLL JR	N/F	TAX MAP #45-54A	1671 LF



LEGEND

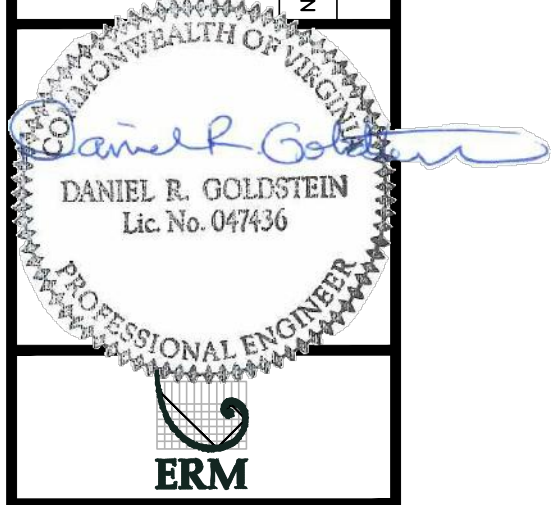
—	PROPERTY LINE	—	STORM SEWER	▨	EXTRA WORK SPACE	▨	TOPSOIL SEGREGATION AREA	▲	PERMANENT WATERBAR/SLOPE BREAKER	—	LOD	—	LIMIT OF DISTURBANCE	
X X	FENCE	E	UNDERGROUND ELECTRIC	▨	AREA OF NO DISTURBANCE	▨	PROPOSED TEMPORARY R.O.W.	▨	TEMPORARY WATERBAR/SLOPE BREAKER	—	BSRF	—	BELTED SILT RETENTION FENCE (BSRF)	
—	STREAM	W	WATER LINE	▨	WETLAND	▨	UTILITY POLE	▨	TRENCH BREAKER/PLUG	—	C 111.001	—	COMPOST FILTER SOCK	
G	EXISTING GAS PIPELINE	SAN	SANITARY SEWER	▨	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).	▨	STREAM CROSSING WITH ENHANCED CONTROLS	—	X	—	—	SEDIMENT BARRIER IDENTIFICATION
OH	OVERHEAD UTILITY LINES	—	EDGE OF GRAVEL	▨	—	▨	—	USFSW STREAM CROSSING	▨	—	—	—	OBSCURE SAFETY FENCE	
—	ACCESS ROAD	—	PROPOSED PERMANENT EASEMENT	▨	—	▨	—	SEEP	▨	—	—	—	ROADSIDE DITCH	
—	PROPOSED GAS PIPELINE	—	PROPOSED GAS PIPELINE (NO GROUND SURVEY)	▨	—	▨	—	SLOPE DIRECTION	▨	—	—	—	SOIL TYPE	
—	—	—	—	▨	—	▨	—	CONSTRUCTION ENTRANCE WITH DITCH	▨	—	—	—	—	
—	—	—	—	▨	—	▨	—	CULVERT AS NEEDED	▨	—	—	—	—	
—	—	—	—	▨	—	▨	—	CULVERT/WATERBAR	▨	—	—	—	—	

NOTES:

- COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY - UTM WITH NAD83 DATUM, ZONE 17, US SURVEY FOOT, CENTRAL MERIDIAN 81° W.
- CONTOURS AND TOPOGRAPHIC FEATURES WERE DERIVED FROM LIDAR DATA AND GPS SUB-METER GROUND SURVEY PERFORMED BY GAI CONSULTANTS, INC FROM 11-03-2014 THRU 11-07-2014.
- IMAGERY TAKEN FROM GOOGLE EARTH.
- THE PROPERTY LINES SHOWN ARE BASED ON GIS & TAX ASSESSMENT RECORDS (PROVIDED BY OTHERS). GAI CONSULTANTS MAKE NO GUARANTEE EITHER EXPRESSED OR IMPLIED AS TO THE ACCURACY OF THE RECORDS AS SHOWN ON THESE DRAWINGS.
- STREAM AND WETLAND DATA SHOWN ON THE DRAWINGS WAS PROVIDED BY ERM.
- EROSION AND SEDIMENTATION CONTROL ELEMENTS MAY BE SHOWN OUTSIDE OF THE WORK AREAS FOR CLARITY ONLY. ACTUAL INSTALLATION SHALL BE WITHIN THE WORK AREAS.
- ALL STATIONING SHOWN IS SLOPE STATIONING.
- 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.
- IMPROVEMENTS AND (d) 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 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.
- 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



42" AP-1 PIPELINE
CONSTRUCTION ALIGNMENT STA. 14835+00 TO 14890+00
BRUNSWICK COUNTY, VIRGINIA

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

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



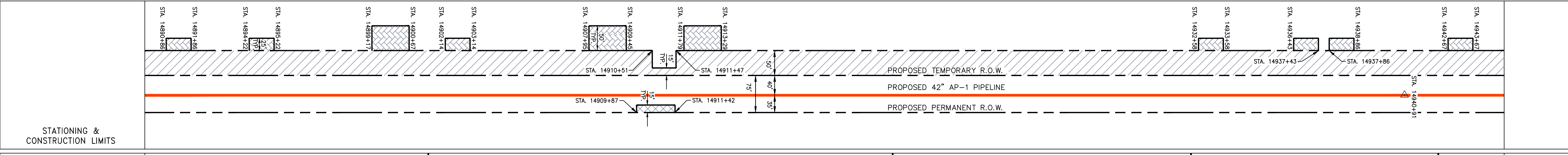
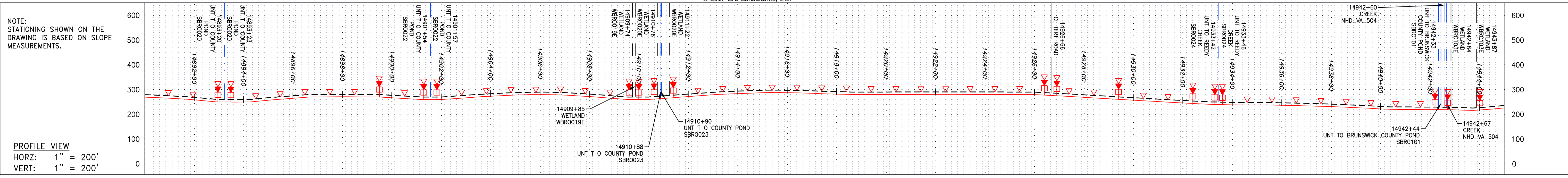
SOUTHPOINTE OFFICE
6000 TOWN CENTER BLVD.
CANONSBURG, PA 15317
724-873-3545

PROJECT NO./DASH NO.
C140468

TASK NO. SUB TASK NO.
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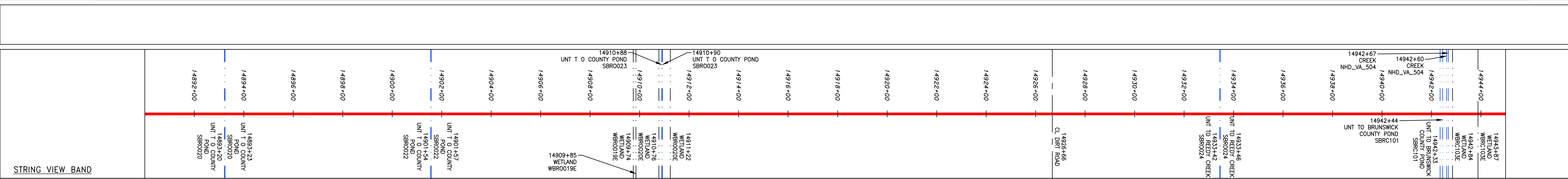
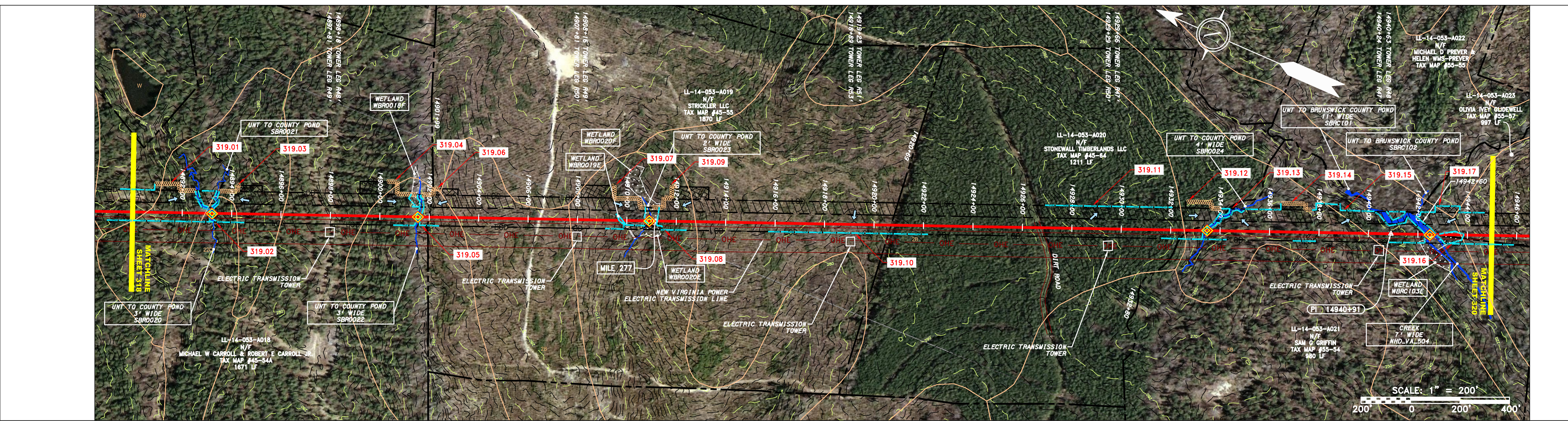
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318 OF 344



PROPERTY OWNERSHIP

14892+28	14895+28	14901+99	14902+89	14920+80	14922+50	14922+57
LL-14-053-A018 MICHAEL W CARROLL & ROBERT E CARROLL JR. TAX MAP #45-54A 1671 LF	LL-14-053-A019 STRICKLER LLC TAX MAP #45-55 1870 LF	LL-14-053-A020 STONEWALL TIMBERLANDS LLC TAX MAP #45-54 1211 LF	LL-14-053-A021 SAM G GRIFFIN TAX MAP #55-54 980 LF	LL-14-053-A023 OLIVIA IVEY GUIDEWELL TAX MAP #55-57 997 LF		



LEGEND

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

NOTES:

- COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY - UTM WITH NAD83 DATUM, ZONE 17, US SURVEY FOOT, CENTRAL MERIDIAN 81° W.
- CONTOURS AND TOPOGRAPHIC FEATURES WERE DERIVED FROM LIDAR DATA AND GPS SUB-METER GROUND SURVEY PERFORMED BY GAI CONSULTANTS, INC FROM 11-03-2014 THRU 11-27-2014.
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- BELTED SILT RETENTION FENCE AND COMPOST FILTER SOCK SHALL BE INSTALLED PARALLEL TO CONTOUR TO EXTENT PRACTICABLE IN ACCORDANCE WITH STANDARD DETAIL. SEDIMENT BARRIER LOCATIONS ARE SUBJECT TO CHANGE BASED ON FIELD CONDITIONS WITH APPROVAL FROM THE PROJECT ENVIRONMENTAL INSPECTOR.
- BEST IN CLASS (BIC) STEEP SLOPE CATEGORY INFORMATION CAN BE FOUND IN THE APPENDIX OF THE STORMWATER POLLUTION PREVENTION PLAN.
- EROSION CONTROL MATING SHALL BE PLACED IN AREAS OF 3% SLOPE AND GREATER, WHICH ARE INDICATED ON THE BEST IN CLASS STEEP SLOPE BAND.
- ACCESS ROADS HAVE BEEN GROUPED INTO FOUR CATEGORIES - 1) EXISTING ROADS NO IMPROVEMENTS, 2) EXISTING ROADS MINOR IMPROVEMENTS, 3) EXISTING ROADS MAJOR IMPROVEMENTS AND 4) NEW ROADS. APPROPRIATE EROSION AND 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) UP-LAND EROSION CONTROL, REVEGETATION, AND MAINTENANCE PLAN, SECTION V.A.5. IN ADDITION, WETLANDS 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

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

gai consultants

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

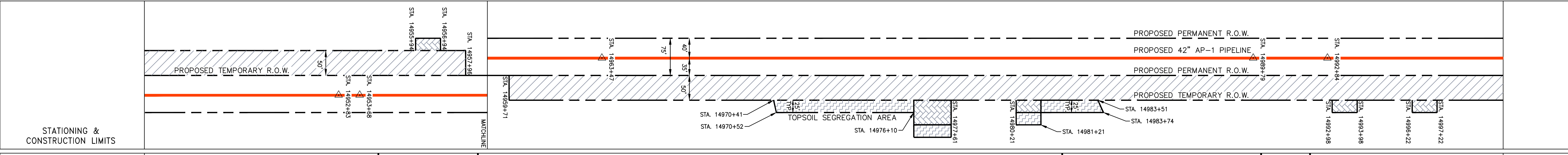
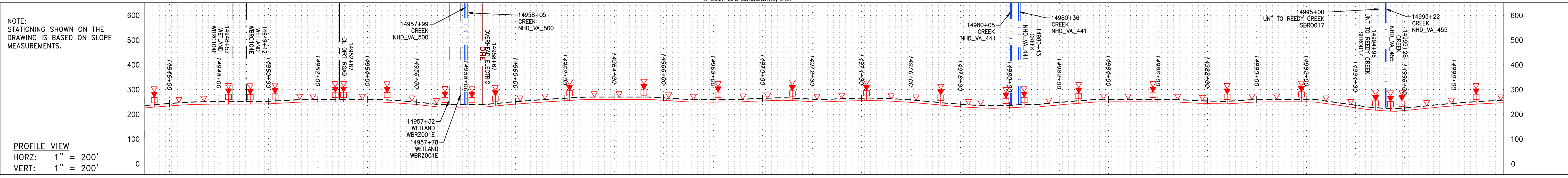
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TASK NO./SUB TASK NO.
 005 / 00

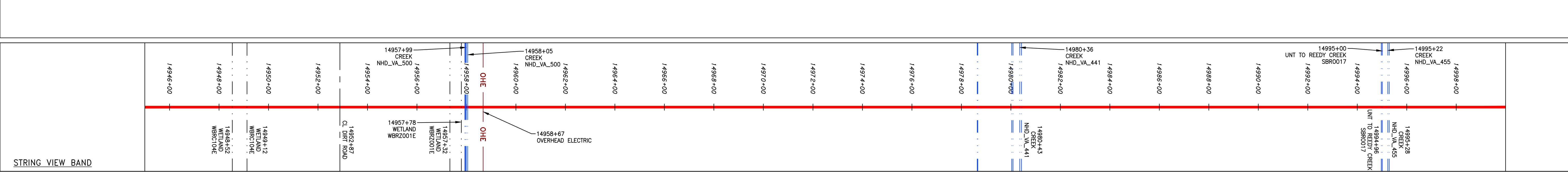
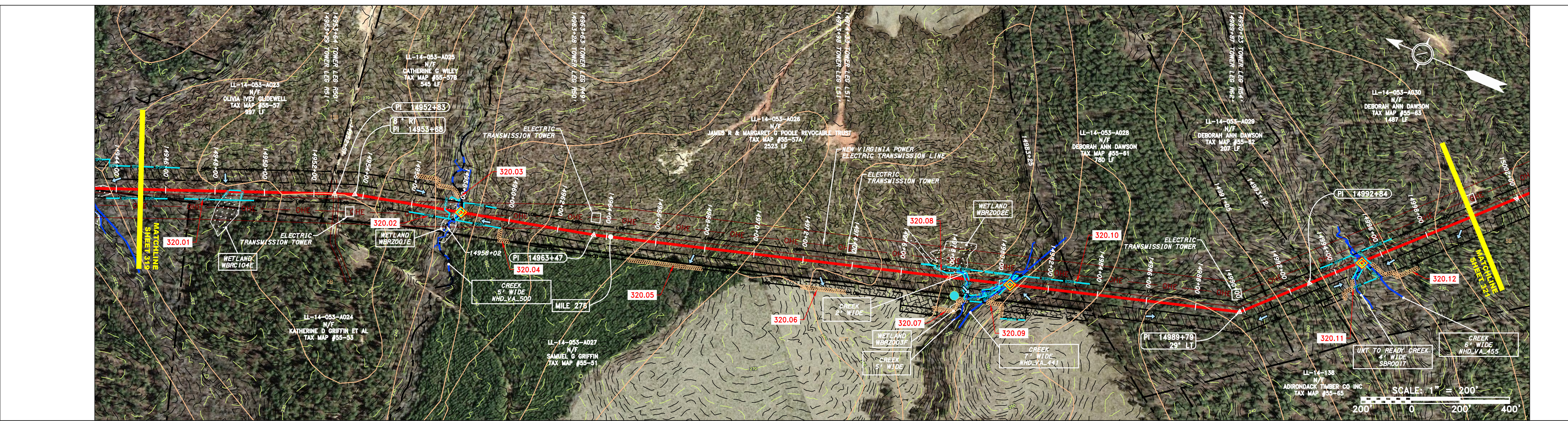
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 D / E319

319 OF 344

4/13/2017 2:56 PM



PROPERTY OWNERSHIP	14942+60	14952+57	14959+02	14972+25	14983+25	14991+05	14993+12	15007+99
LL-14-053-A023 N/F OLIVIA IVEY GLIDEWELL TAX MAP #55-57 997 LF			LL-14-053-A025 N/F CATHERINE G WILEY TAX MAP #55-57B 545 LF	LL-14-053-A026 N/F JAMES R & MARGARET G POOLE REVOCABLE TRUST TAX MAP #55-57A 2523 LF	LL-14-053-A028 N/F DEBORAH ANN DAWSON TAX MAP #55-61 780 LF	LL-14-053-A029 N/F DEBORAH ANN DAWSON TAX MAP #55-62 207 LF	LL-14-053-A030 N/F DEBORAH ANN DAWSON TAX MAP #55-63 1487 LF	



LEGEND

—	PROPERTY LINE	—	STORM SEWER	▨	EXTRA WORK SPACE	▨	TOPSOIL SEGREGATION AREA	▨	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.	BSRF	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 (COLOR SHOWN TO PROVIDE CLARITY ONLY)	▨	UTILITY POLE	—	—	—	COMPOST FILTER SOCK	3.	IMAGERY TAKEN FROM GOOGLE EARTH.
G	EXISTING GAS PIPELINE	—	SANITARY SEWER	—	NOTE: THE PE SEAL AND SIGNATURE APPLIES ONLY TO THE E&S CONTROL DESIGN COMPLETED BY ERM (SEE NOTE 12).	—	—	—	—	—	SEDIMENT BARRIER IDENTIFICATION	4.	ACCURACY OF THE RECORDS AS SHOWN ON THESE DRAWINGS.
OH	OVERHEAD UTILITY LINES	—	EDGE OF GRAVEL	—	—	—	—	—	—	—	ORANGE SAFETY FENCE	5.	ALL STATIONING SHOWN IS SLOPE STATIONING.
—	ACCESS ROAD	—	PROPOSED PERMANENT EASEMENT	—	—	—	—	—	—	—	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)	—	—	—	—	—	—	—	SOIL TYPE	7.	EROSION AND SEDIMENTATION CONTROL ELEMENTS SHALL BE INSTALLED PARALLEL TO CONTOUR TO EXTENT PRACTICABLE IN ACCORDANCE WITH STANDARD DETAIL. SEDIMENT BARRIERS LOCATIONS ARE SUBJECT TO CHANGE BASED ON FIELD CONDITIONS WITH APPROVAL FROM THE PROJECT ENVIRONMENTAL INSPECTOR.
											SOIL TYPE	8.	BEST IN CLASS (BIC) STEEP SLOPE CATEGORY INFORMATION CAN BE FOUND IN THE APPENDIX OF THE STORMWATER POLLUTION PREVENTION PLAN.
											SOIL TYPE	9.	BEST IN CLASS (BIC) STEEP SLOPE CATEGORY INFORMATION CAN BE FOUND IN THE APPENDIX OF THE STORMWATER POLLUTION PREVENTION PLAN.
											SOIL TYPE	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.
											SOIL TYPE	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.
											SOIL TYPE	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.
											SOIL TYPE	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.

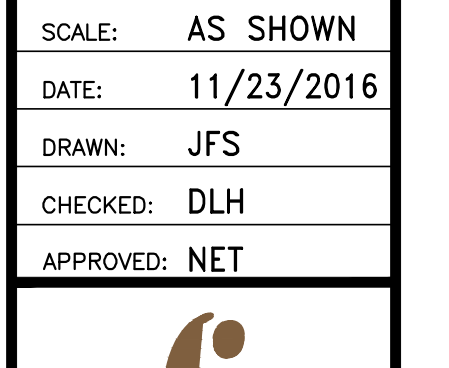
REVISIONS

NO.	DATE	BY	APPD.	DESCRIPTION

Daniel R. Goldstein
 Lic No. 047436
 PROFESSIONAL ENGINEER

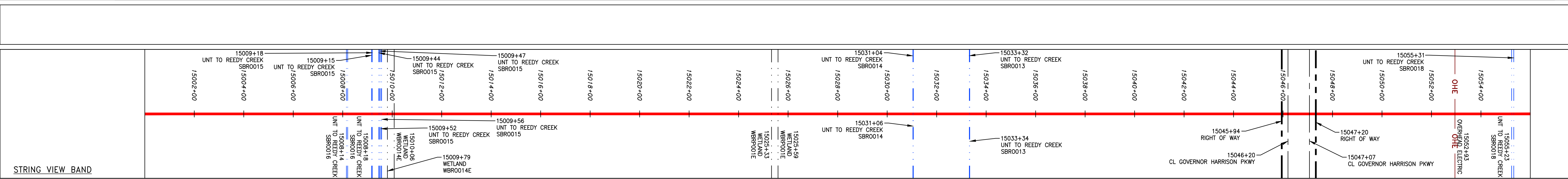
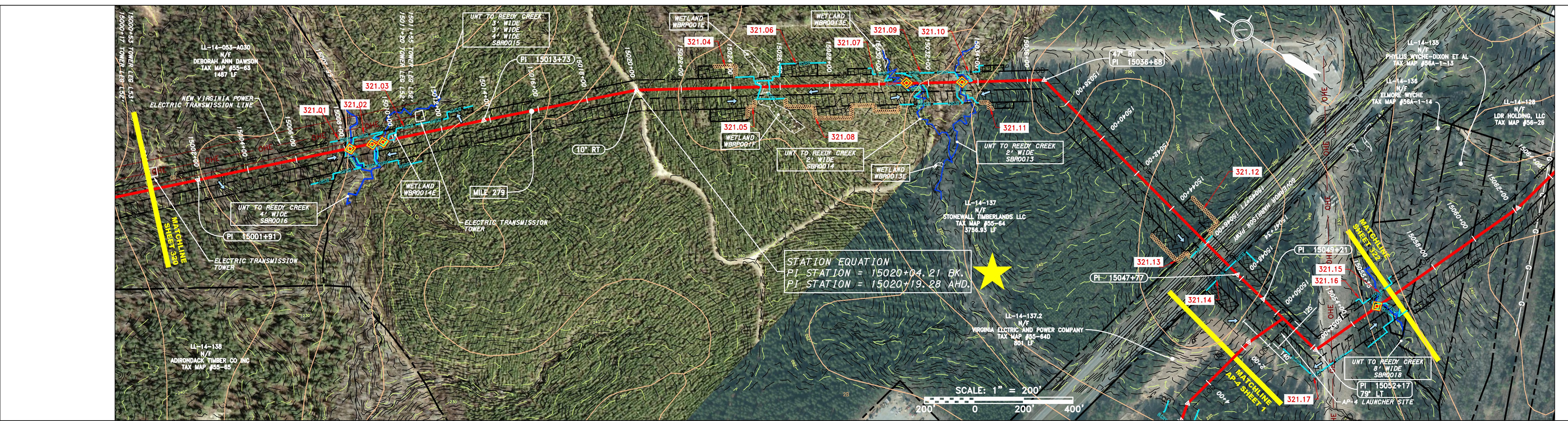
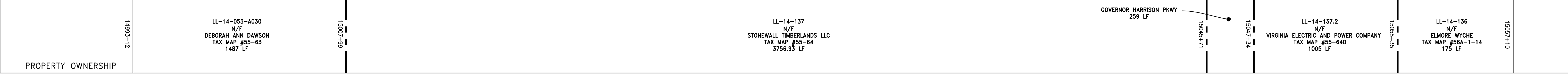
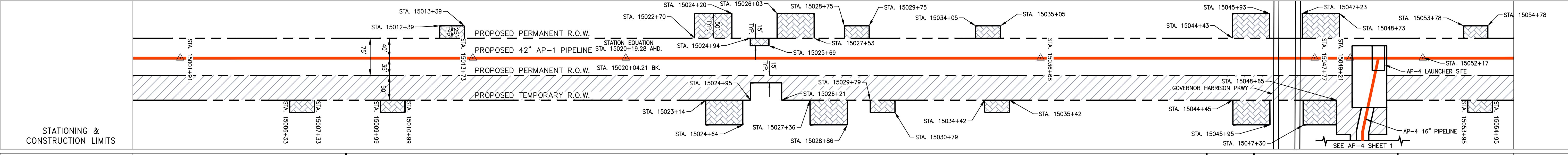
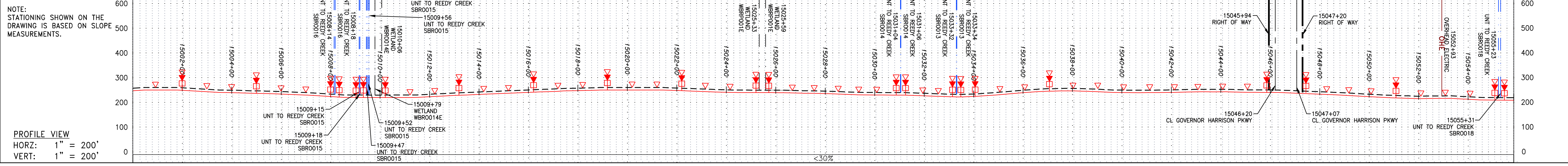
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SCALE: AS SHOWN
 DATE: 11/23/2016
 DRAWN: JFS
 CHECKED: DLH
 APPROVED: NET



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

PROJECT NO./DASH NO.	C140468
TASK NO./SUB TASK NO.	005 / 00
GROUP ID / DRAWING NO.	D / E320
320 OF 344	



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

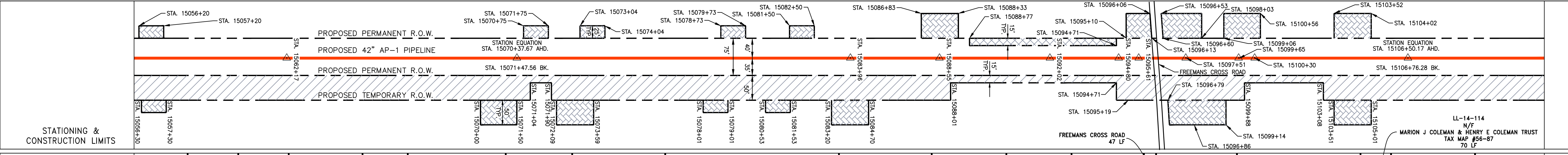
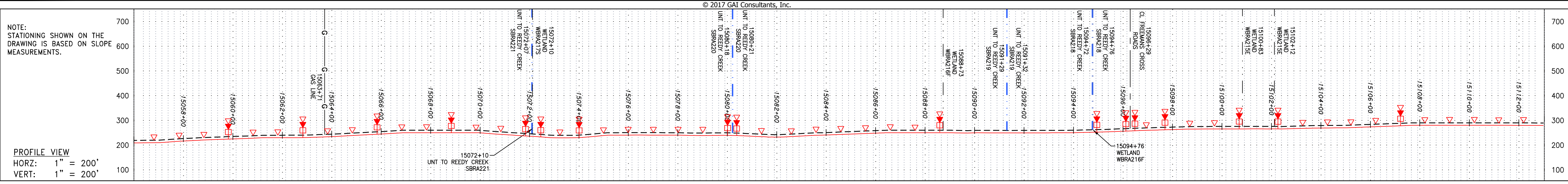
NO.	DATE	BY	CHKD.	APPD.	DESCRIPTION

DANIEL R. GOLDSTEIN
 Lic No. 047436
 PROFESSIONAL ENGINEER
 ERM

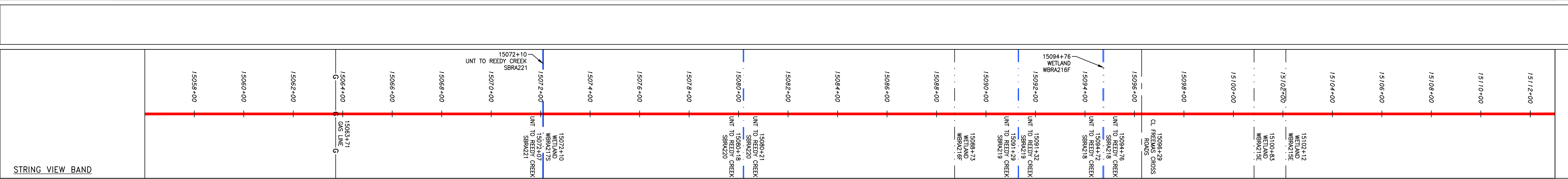
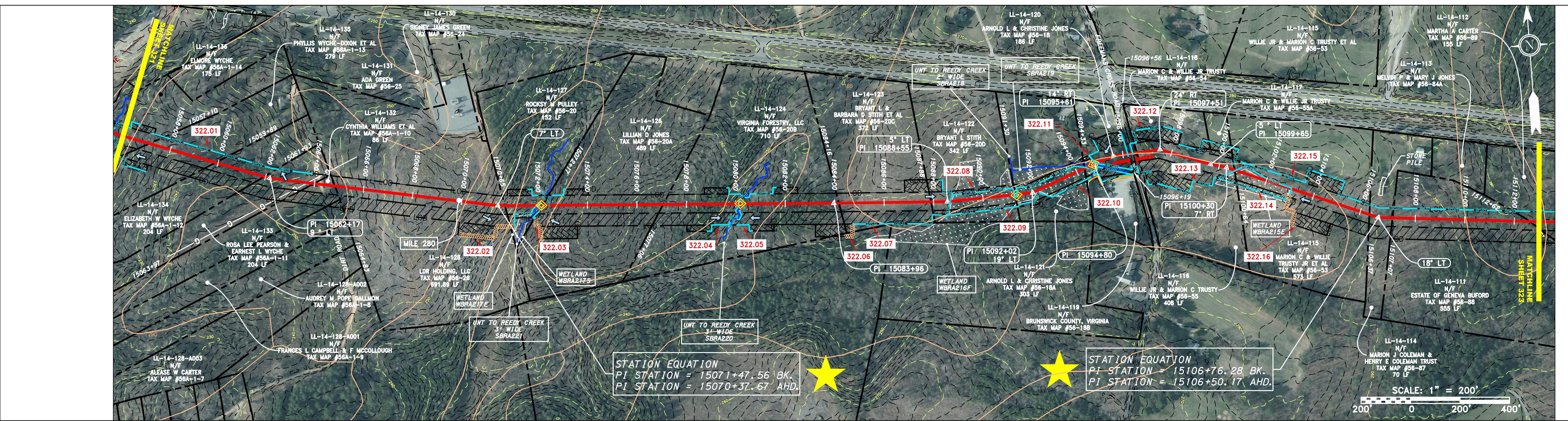
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DATE:	11/23/2016
DRAWN:	JFS
CHECKED:	DLH
APPROVED:	NET

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

PROJECT NO./DASH NO.	C140468
TASK NO. SUB TASK NO.	005 00
GROUP ID DRAWING NO.	D E321
321 OF 344	



PROPERTY OWNERSHIP	PROPERTY OWNERSHIP	PROPERTY OWNERSHIP	PROPERTY OWNERSHIP	PROPERTY OWNERSHIP	PROPERTY OWNERSHIP	PROPERTY OWNERSHIP	PROPERTY OWNERSHIP	PROPERTY OWNERSHIP	PROPERTY OWNERSHIP	PROPERTY OWNERSHIP	PROPERTY OWNERSHIP	PROPERTY OWNERSHIP	PROPERTY OWNERSHIP	PROPERTY OWNERSHIP	PROPERTY OWNERSHIP	PROPERTY OWNERSHIP	PROPERTY OWNERSHIP	PROPERTY OWNERSHIP	PROPERTY OWNERSHIP	PROPERTY OWNERSHIP
LL-14-136 N/F ELMORE WYCHE TAX MAP # 56A-1-14 175 LF	LL-14-135 N/F PHYLLIS WYCHE-DIXON ET AL TAX MAP # 56A-1-13 255 LF	LL-14-134 N/F ELIZABETH W WYCHE TAX MAP # 56A-1-12 204 LF	LL-14-133 N/F ROSA LEE PEARSON & EARNEST L WYCHE TAX MAP # 56A-1-11 204 LF	LL-14-132 N/F CYNTHIA WILLIAMS ET AL TAX MAP # 56A-1-10 86 LF	LL-14-128 N/F LDR HOLDING, LLC TAX MAP # 56-26 691.89 LF	LL-14-127 N/F ROCKY M PULLEY TAX MAP # 56-20 152 LF	LL-14-126 N/F LILLIAN D JONES TAX MAP # 56-20A 489 LF	LL-14-124 N/F VIRGINIA FORESTRY, LLC TAX MAP # 56-20B 710 LF	LL-14-123 N/F BRYANT L & BARBARA D STITH ET AL TAX MAP # 56-20C 372 LF	LL-14-122 N/F BRYANT L STITH TAX MAP # 56-20D 342 LF	LL-14-121 N/F ARNOLD L & CHRISTINE JONES TAX MAP # 56-18A 303 LF	LL-14-120 N/F ARNOLD L & CHRISTINE JONES TAX MAP # 56-18 186 LF	LL-14-116 N/F WILLIE JR & MARION C TRUSTY TAX MAP # 56-54 408 LF	LL-14-115 N/F MARION C & WILLIE TRUSTY JR ET AL TAX MAP # 56-53 573 LF	LL-14-111 N/F ESTATE OF GENEVA BUFORD TAX MAP # 56-88 555 LF	LL-14-112 N/F MARTHA A CARTER TAX MAP # 56-89 155 LF	LL-14-117 N/F MARTHA A CARTER TAX MAP # 56-89 155 LF	LL-14-113 N/F WILLIE JR & MARION C TRUSTY ET AL TAX MAP # 56-53 573 LF	LL-14-112 N/F WILLIE JR & MARION C TRUSTY ET AL TAX MAP # 56-53 573 LF	LL-14-111 N/F ESTATE OF GENEVA BUFORD TAX MAP # 56-88 555 LF



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	—	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	—	WATER LINE	—	WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)	—	UTILITY POLE	—	TRENCH BREAKER/PLUG	—	—	—	COMPOST FILTER SOCK	3.	IMAGERY TAKEN FROM GOOGLE EARTH.
G	EXISTING GAS PIPELINE	—	SANITARY SEWER	—	—	—	—	—	STREAM CROSSING	—	—	—	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	—	—	—	CULVERT IDENTIFICATION	5.	EROSION AND SEDIMENTATION CONTROL ELEMENTS MAY BE SHOWN OUTSIDE OF THE WORK AREAS FOR CLARITY ONLY. ACTUAL INSTALLATION SHALL BE WITHIN THE WORK AREAS.
—	ACCESS ROAD	—	PROPOSED PERMANENT EASEMENT	—	—	—	—	—	SLEEP	—	—	—	ROADSIDE DITCH	6.	ALL STATIONING SHOWN IS SLOPE STATIONING.
—	PROPOSED GAS PIPELINE (NO GROUND SURVEY)	—	PROPOSED GAS PIPELINE	—	—	—	—	—	—	—	—	—	SOIL TYPE	7.	EROSION AND SEDIMENTATION CONTROL ELEMENTS 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.
—	—	—	—	—	—	—	—	—	—	—	—	—	—	8.	BELTED SILT RETENTION FENCE (BSRF) SHALL BE SHOWN OUTSIDE OF THE WORK AREAS FOR CLARITY ONLY. ACTUAL INSTALLATION SHALL BE WITHIN THE WORK AREAS.
—	—	—	—	—	—	—	—	—	—	—	—	—	—	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 OR 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 & 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 ENVIRONMENTAL REGULATORY COMMISSION (FERC) UPLAND EROSION CONTROL 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

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

CONSTRUCTION ALIGNMENT STA. 15056+00 TO 15113+00
 BRUNSWICK 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

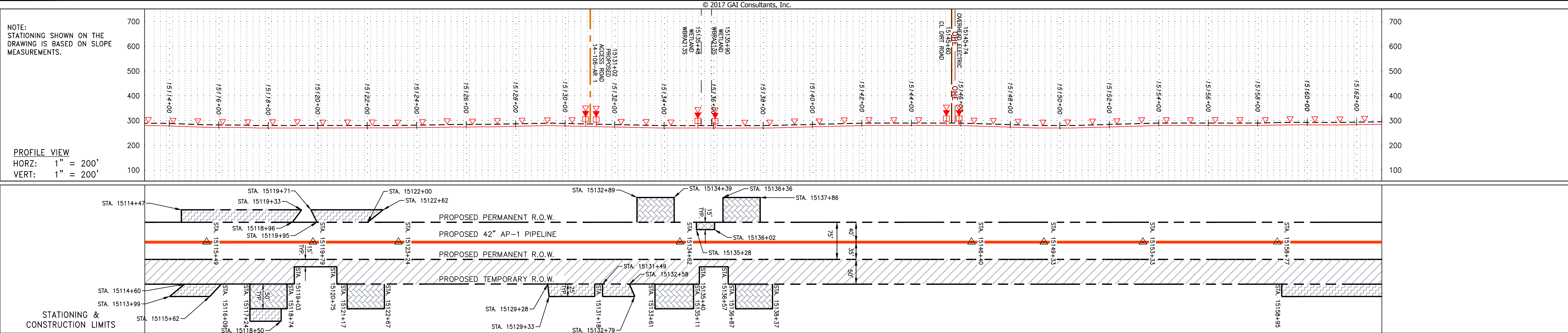
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GROUP ID/DRAWING NO.
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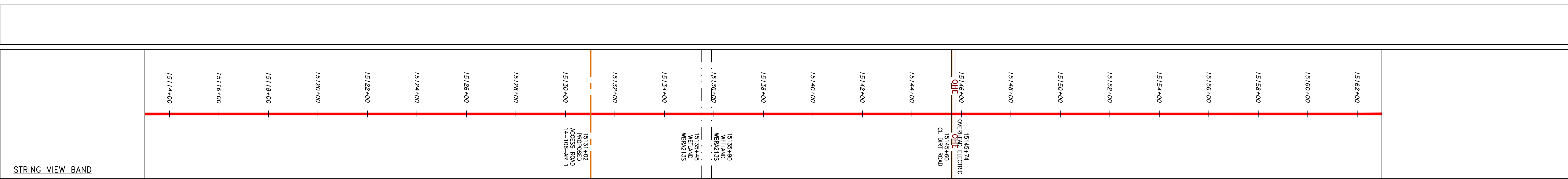
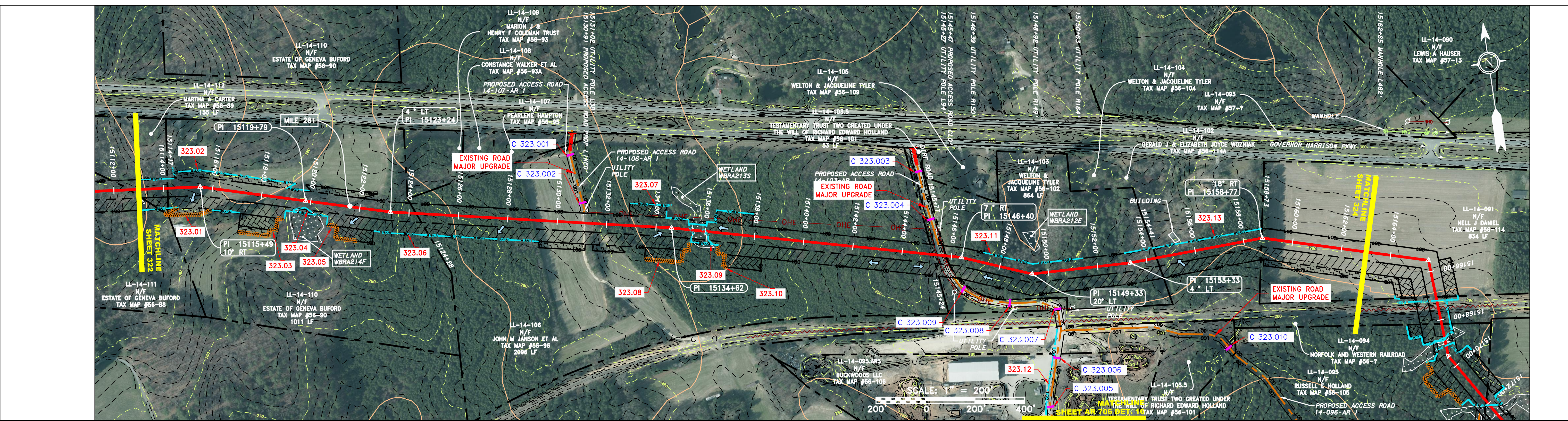
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PROPERTY OWNERSHIP

LL-14-112 N/F MARTHA A CARTER TAX MAP #56-89 155 LF	LL-14-110 N/F ESTATE OF GENEVA BUFORD TAX MAP #56-90 1011 LF	LL-14-106 N/F JOHN M JANSON ET AL TAX MAP #56-96 2096 LF	LL-14-103.5 N/F TESTAMENTARY TRUST TWO CREATED UNDER THE WILL OF RICHARD EDWARD HOLLAND TAX MAP #56-101 83 LF	LL-14-103 N/F WELTON & JACQUELINE TYLER TAX MAP #56-102 864 LF	LL-14-091 N/F NELL J DANIEL TAX MAP #56-114 834 LF
---	--	--	--	--	--



LEGEND

PROPERTY LINE	STORM SEWER	EXTRA WORK SPACE	PERMANENT WATERBAR/SLOPE BREAKER	LOD	LIMIT OF DISTURBANCE
FENCE	UNDERGROUND ELECTRIC	TOPSOIL SEGREGATION AREA	TEMPORARY WATERBAR/SLOPE BREAKER	BSRF	BELTED SILT RETENTION FENCE (BSRF)
STREAM	WATER LINE	AREA OF NO DISTURBANCE	TRENCH BREAKER/PLUG	111.03	COMPOST FILTER SOCK
EXISTING GAS PIPELINE	SANITARY SEWER	PROPOSED TEMPORARY R.O.W.	STREAM CROSSING	C 111.001	SEDIMENT BARRIER IDENTIFICATION
OVERHEAD UTILITY LINES	EDGE OF GRAVEL	WETLAND	USPWS STREAM CROSSING WITH ENHANCED CONTROLS	X	CULVERT IDENTIFICATION
ACCESS ROAD	PROPOSED PERMANENT EASEMENT	UTILITY POLE	SEEP	Cub	ORANGE SAFETY FENCE
PROPOSED GAS PIPELINE	PROPOSED GAS PIPELINE (NO GROUND SURVEY)		SLOPE DIRECTION	A1 (E)	ROADSIDE DITCH
			CONSTRUCTION ENTRANCE WITH DITCH	30-58%	SOIL TYPE
			CULVERT AS NEEDED		TYPICAL BIC SLOPE CATEGORY
			CULVERT/WATERBAR		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

Daniel R. Goldstein
Lic No. 047436
PROFESSIONAL ENGINEER

ERM

42" AP-1 PIPELINE
CONSTRUCTION ALIGNMENT STA. 15113+00 TO 15163+00
BRUNSWICK 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 E323

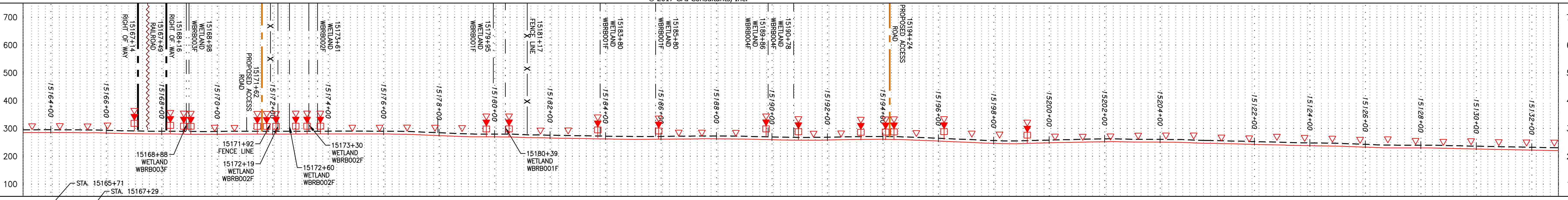
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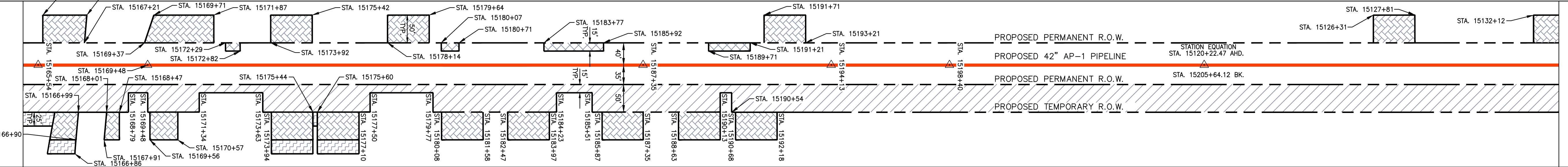
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NOTE: STATIONING SHOWN ON THE DRAWING IS BASED ON SLOPE MEASUREMENTS.

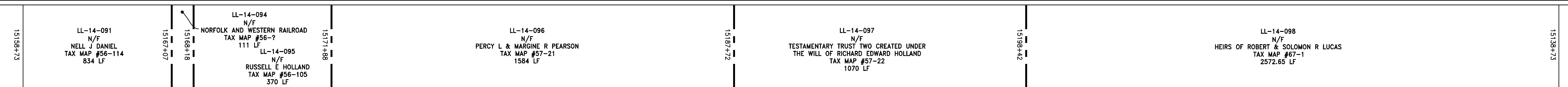
PROFILE VIEW
HORIZ: 1" = 200'
VERT: 1" = 200'



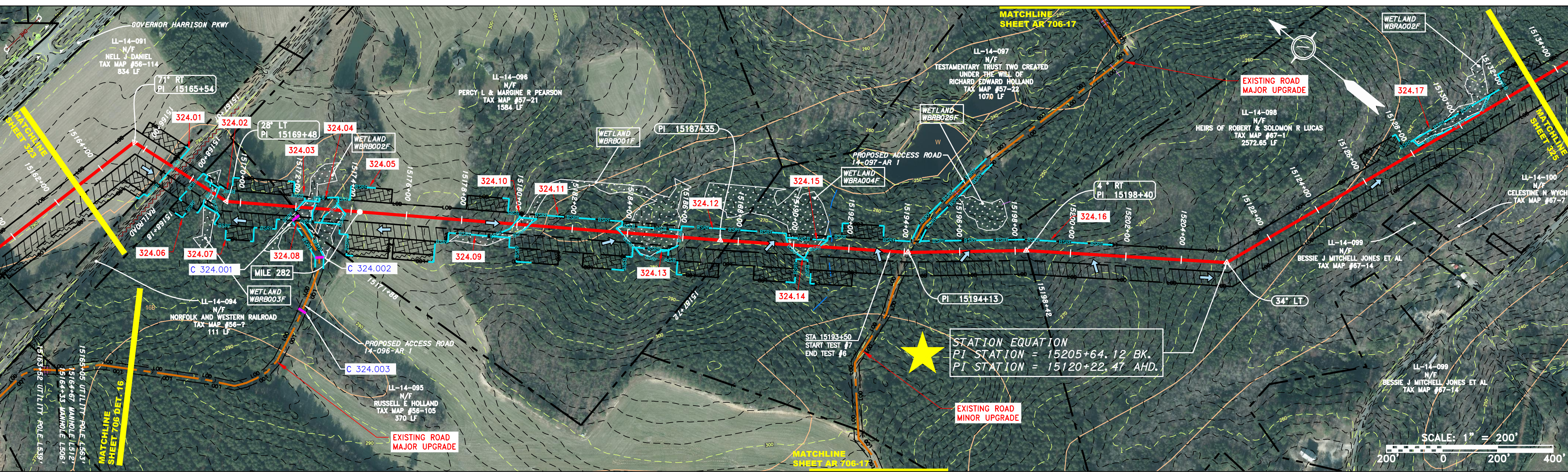
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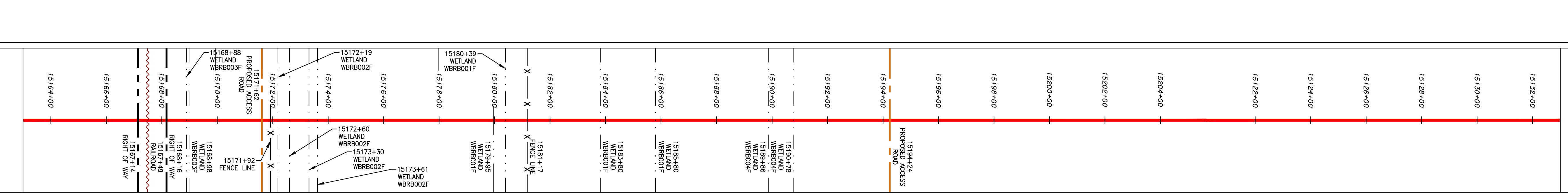
PROPERTY OWNERSHIP



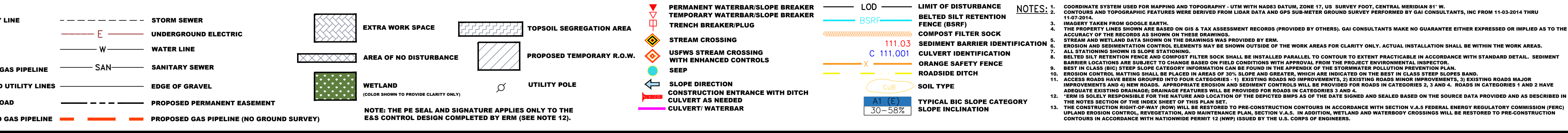
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MILE 282
MATCHLINE SHEET AR 706-17
MATCHLINE SHEET AR 706-16



STRING VIEW BAND

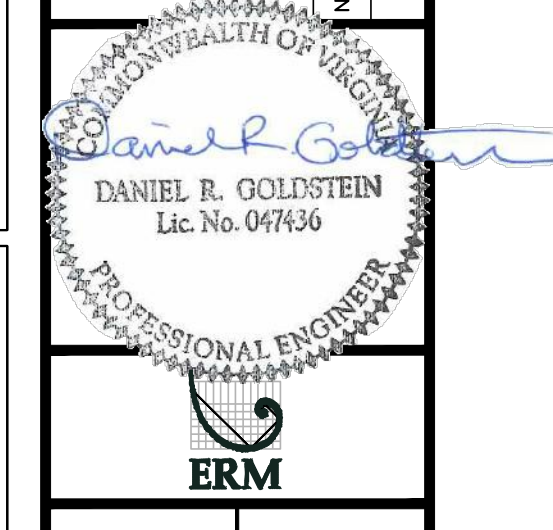


LEGEND



NOTES:
1. COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY - UTM WITH NAD83 DATUM, ZONE 17, US SURVEY FOOT, CENTRAL MERIDIAN 81° W.
2. CONTOURS AND TOPOGRAPHIC FEATURES WERE DERIVED FROM LIDAR DATA AND GPS SUB-METER GROUND SURVEY PERFORMED BY GAI CONSULTANTS, INC FROM 11-03-2014 THRU 11-07-2014.
3. IMAGERY TAKEN FROM GOOGLE EARTH.
4. THE PROPERTY LINES SHOWN ON THE DRAWINGS MAY BE BASED ON GIS & TAX ASSESSMENT RECORDS (PROVIDED BY OTHERS). GAI CONSULTANTS MAKE NO GUARANTEE EITHER EXPRESSED OR IMPLIED AS TO THE ACCURACY OF THE RECORDS AS SHOWN ON THESE DRAWINGS.
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. 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 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.
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NO.	DATE	BY	CHKD.	APPD.	DESCRIPTION

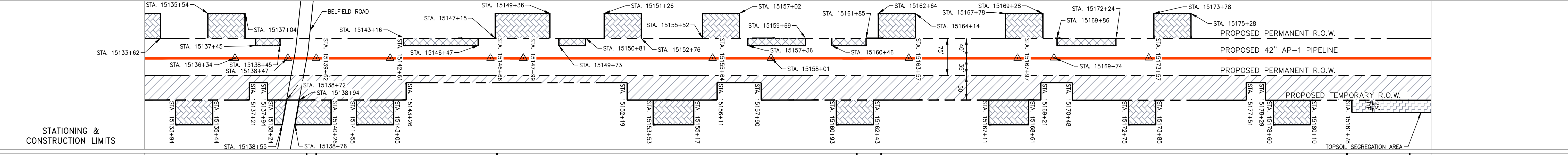
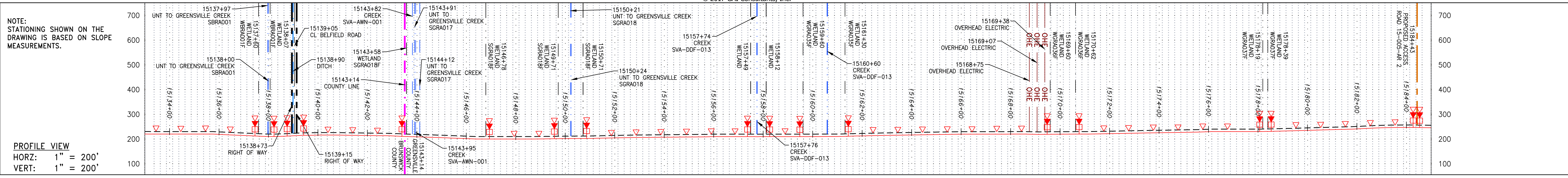


ATLANTIC COAST PIPELINE, LLC
C/O DOMINION TRANSMISSION, INC.
925 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330

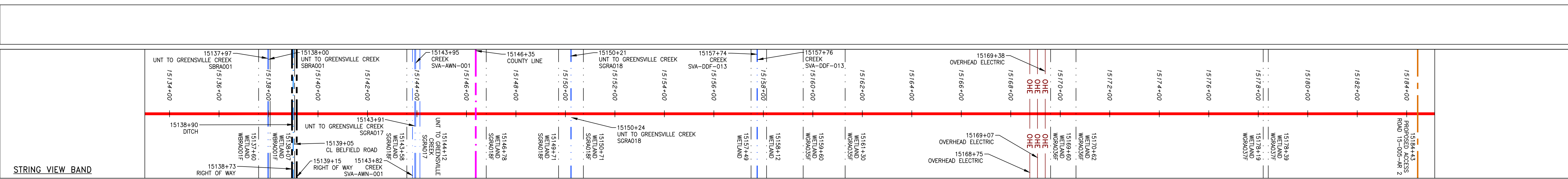
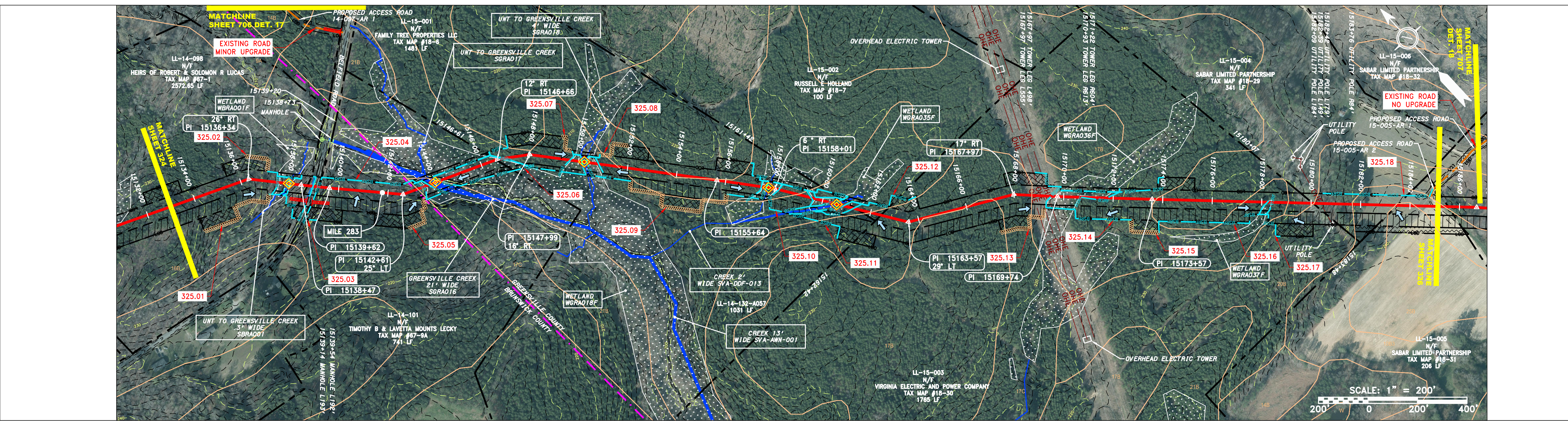
SCALE:	AS SHOWN
DATE:	11/23/2016
DRAWN:	SAQ
CHECKED:	DLH
APPROVED:	NET

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 E324
324 OF 344	



PROPERTY OWNERSHIP	ADDRESS	TAX MAP	ACRES
HEIRS OF ROBERT & SOLOMON R. LUCAS	15138+73	#67-1	2572.65 LF
TIMOTHY B. & LAVETTA MOUNTS LECKY	15140+00	#67-9A	741 LF
FAMILY TREE PROPERTIES LLC	15149+36	#18-6	1481 LF
RUSSELL E. HOLLAND	15157+02	#18-7	100 LF
VIRGINIA ELECTRIC AND POWER COMPANY	15161+42	#18-30	1765 LF
SABAR LIMITED PARTNERSHIP	15169+74	#18-29	341 LF
SABAR LIMITED PARTNERSHIP	15173+78	#18-31	206 LF



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	—	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	—	WATER LINE	▨	WETLAND	▨	UTILITY POLE	⚡	TRENCH BREAKER/PLUG	⚡	—	—	COMPOST FILTER SOCK	3.	IMAGERY TAKEN FROM GOOGLE EARTH.
G G	EXISTING GAS PIPELINE	—	SANITARY SEWER	▨	NOTE: THE PE SEAL AND SIGNATURE APPLIES ONLY TO THE E&S CONTROL DESIGN COMPLETED BY ERM (SEE NOTE 12).	▨	—	—	—	⚡	—	—	SEDIMENT BARRIER IDENTIFICATION	4.	ACCURACY OF THE RECORDS AS SHOWN ON THESE DRAWINGS.
OH	OVERHEAD UTILITY LINES	—	EDGE OF GRAVEL	▨	—	▨	—	—	—	⚡	—	—	ORANGE SAFETY FENCE	5.	ALL STATIONING SHOWN IS SLOPE STATIONING.
—	ACCESS ROAD	—	PROPOSED PERMANENT EASEMENT	▨	—	▨	—	—	—	⚡	—	—	ROADSIDE DITCH	6.	STREAM AND WETLAND DATA SHOWN ON THE DRAWINGS WAS PROVIDED BY ERM.
—	PROPOSED GAS PIPELINE	—	PROPOSED GAS PIPELINE (NO GROUND SURVEY)	▨	—	▨	—	—	—	⚡	—	—	SOIL TYPE	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.

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.
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- BELTED SILT RETENTION FENCE AND COMPOST FILTER SOCK SHALL BE INSTALLED PARALLEL TO CONTOUR TO EXTENT PRACTICABLE IN ACCORDANCE WITH STANDARD DETAIL. SEDIMENT BARRIER LOCATIONS ARE SUBJECT TO CHANGE BASED ON FIELD CONDITIONS WITH APPROVAL FROM THE PROJECT ENVIRONMENTAL INSPECTOR.
- BEST IN CLASS (BIC) STEEP SLOPE CATEGORY INFORMATION CAN BE FOUND IN THE APPENDIX OF THE STORMWATER POLLUTION PREVENTION PLAN.
- EROSION CONTROL MATING SHALL BE PLACED IN AREAS OF 30% SLOPE AND 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 CONTROL MEASURES 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, 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

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. 15133+00 TO 15185+00
 BRUNSWICK & GREENSVILLE COUNTIES, 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

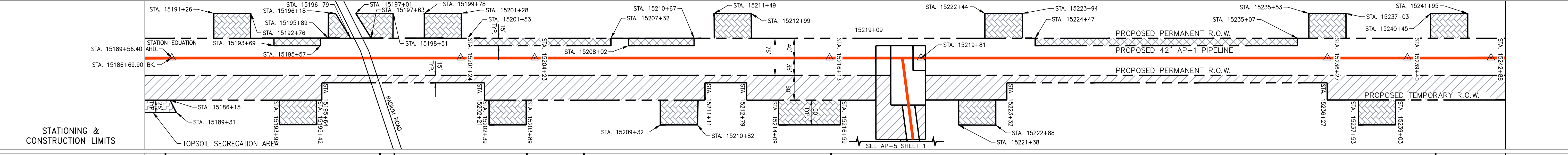
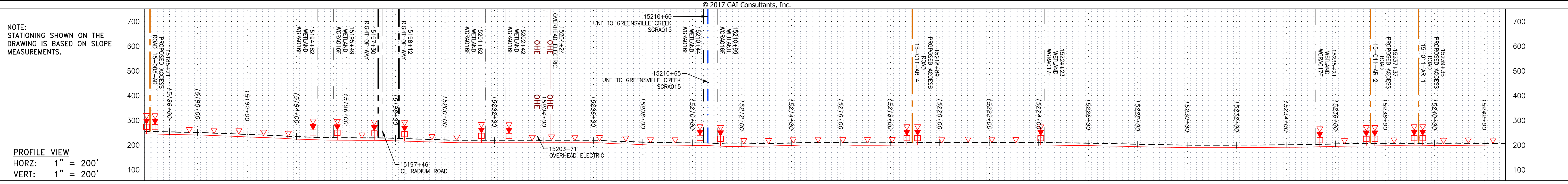
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GROUP ID DRAWING NO.
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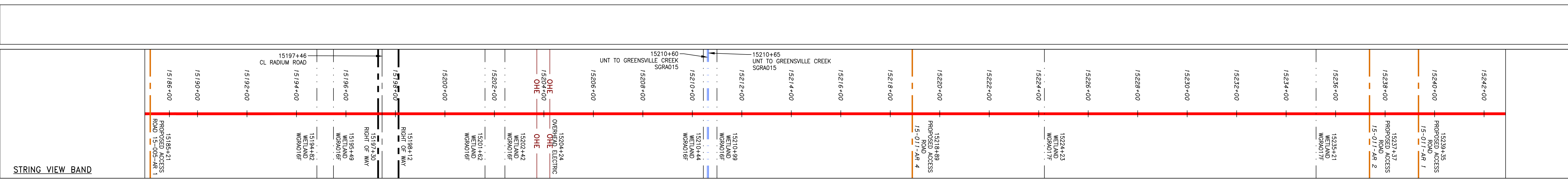
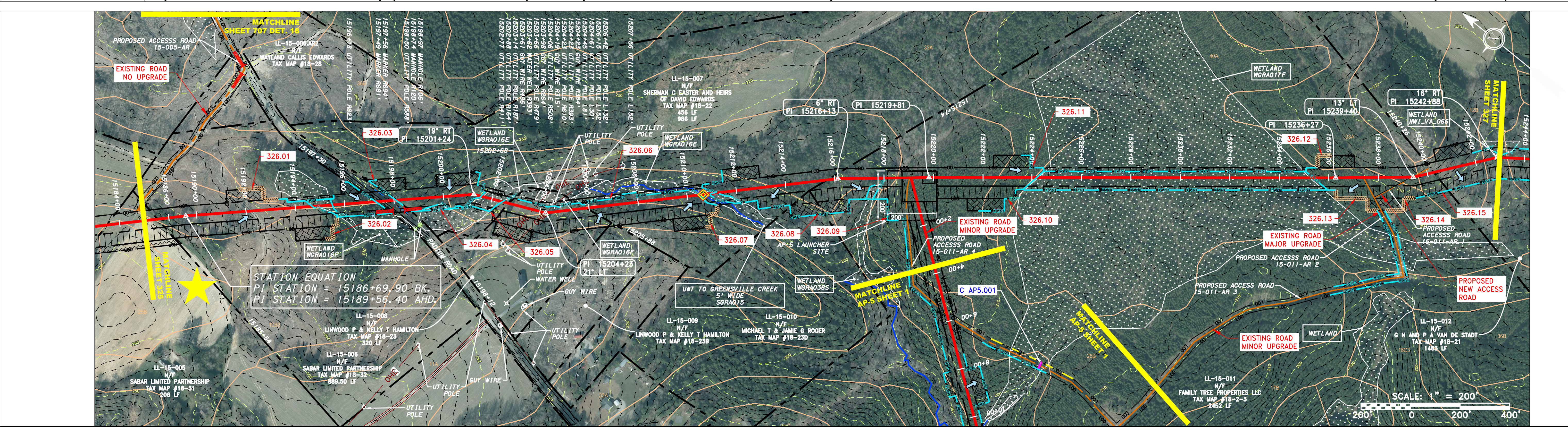
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GAI CAD FILE NO. I:\DOMINION\AP-1\ESC\CADD-GIS\DATA\KST_CHK1\SPREAD_7_ESC_SHT_325.DWG



PROPERTY OWNERSHIP
LL-15-005 N/F SABAR LIMITED PARTNERSHIP TAX MAP #18-31 206 LF
LL-15-006 N/F SABAR LIMITED PARTNERSHIP TAX MAP #18-32 889.50 LF
LL-15-007 N/F SHERMAN C EASTER AND HEIRS OF DAVID EDWARDS TAX MAP #18-22 456 LF
LL-15-008 N/F LINWOOD P & KELLY T HAMILTON TAX MAP #18-23 320 LF
LL-15-009 N/F LINWOOD P & KELLY T HAMILTON TAX MAP #18-23B 320 LF
LL-15-010 N/F MICHAEL T & JAMIE G ROGER TAX MAP #18-23D 320 LF
LL-15-011 N/F FAMILY TREE PROPERTIES LLC TAX MAP #18-2-3 2452 LF
LL-15-012 N/F G N AND P A VAN DE STADT TAX MAP #18-21 1483 LF



LEGEND		NOTES:	
—	PROPERTY LINE	1	COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY - UTM WITH NAD83 DATUM, ZONE 17, U.S. SURVEY FOOT, CENTRAL MERIDIAN 81° W.
X X	FENCE	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	3	IMAGERY TAKEN FROM GOOGLE EARTH.
G G	EXISTING GAS PIPELINE	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	5	EROSION AND SEDIMENTATION CONTROL ELEMENTS MAY BE SHOWN OUTSIDE OF THE WORK AREAS FOR CLARITY ONLY. ACTUAL INSTALLATION SHALL BE WITHIN THE WORK AREAS.
—	ACCESS ROAD	6	ALL STATIONING SHOWN IS SLOPE STATIONING.
—	PROPOSED GAS PIPELINE	7	ACCURACY OF THE RECORDS AS SHOWN ON THESE DRAWINGS.
—	PROPOSED GAS PIPELINE (NO GROUND SURVEY)	8	EROSION AND SEDIMENTATION CONTROL ELEMENTS MAY BE SHOWN OUTSIDE OF THE WORK AREAS FOR CLARITY ONLY. ACTUAL INSTALLATION SHALL BE WITHIN THE WORK AREAS.
—	STORM SEWER	9	BELTED SILT RETENTION FENCE (BSRF)
—	UNDERGROUND ELECTRIC	10	COMPOST FILTER SOCK
—	WATER LINE	11	SILT IDENTIFICATION
—	SANITARY SEWER	12	ORANGE SAFETY FENCE
—	EDGE OF GRAVEL	13	ROADSIDE DITCH
—	PROPOSED PERMANENT EASEMENT	14	SOIL TYPE
—	PROPOSED PERMANENT R.O.W.	15	TYPICAL BIC SLOPE CATEGORY SLOPE INCLINATION
—	PROPOSED TEMPORARY R.O.W.	16	
—	UTILITY POLE	17	
—	WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)	18	
—	EXTRA WORK SPACE	19	
—	TOPSOIL SEGREGATION AREA	20	
—	AREA OF NO DISTURBANCE	21	
—	PERMANENT WATERBAR/SLOPE BREAKER	22	
—	TEMPORARY WATERBAR/SLOPE BREAKER	23	
—	TRENCH BREAKER/PLUG	24	
—	STREAM CROSSING	25	
—	USPWS STREAM CROSSING WITH ENHANCED CONTROLS	26	
—	SLEEP	27	
—	SLOPE DIRECTION	28	
—	CONSTRUCTION ENTRANCE WITH DITCH	29	
—	CULVERT AS NEEDED	30	
—	CULVERT/WATERBAR	31	

REVISIONS

NO.	DATE	BY	APP'D.	DESCRIPTION

DANIEL R. GOLDSTEIN
Lic. No. 047436

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

CONSTRUCTION ALIGNMENT STA. 15185+00 TO 15243+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

TASK NO. SUB TASK NO.
005 00

GROUP ID DRAWING NO.
D E326

326 OF 344

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