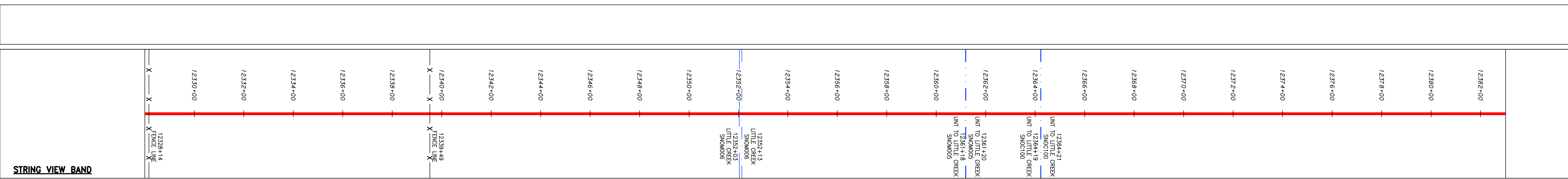
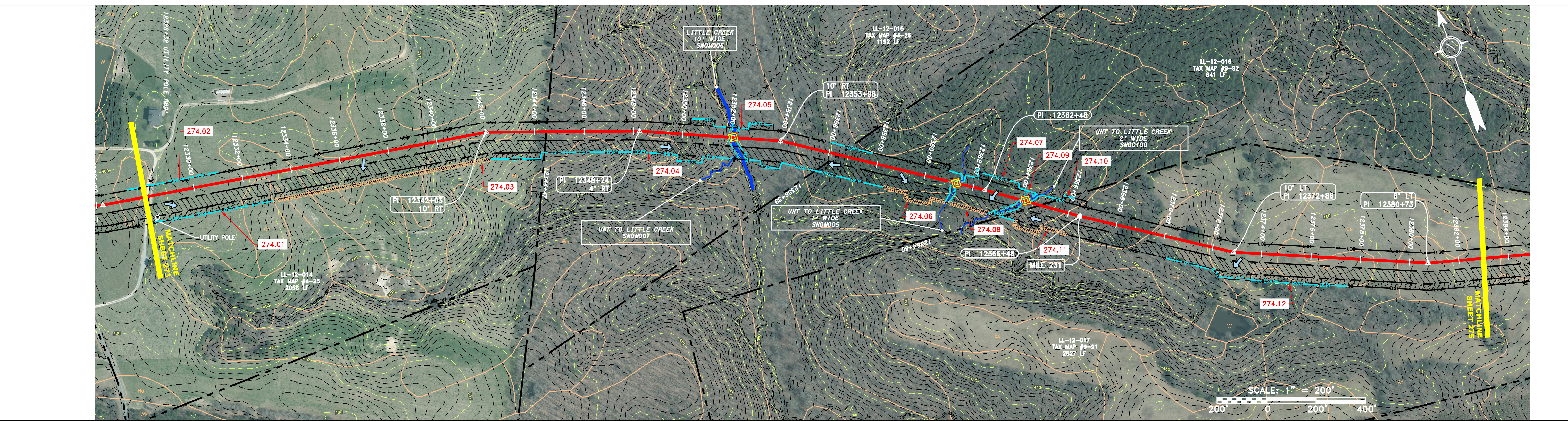
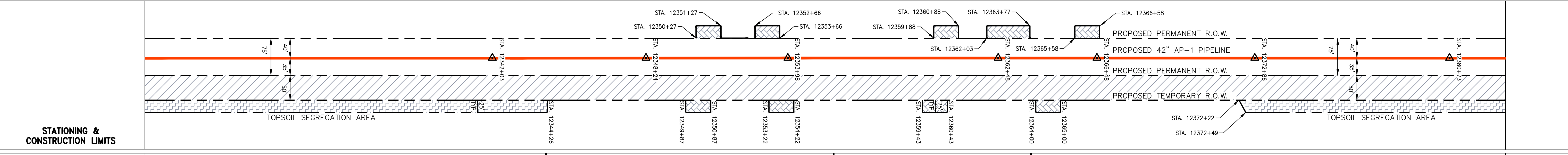


PROFILE VIEW
 HORZ: 1" = 200'
 VERT: 1" = 200'



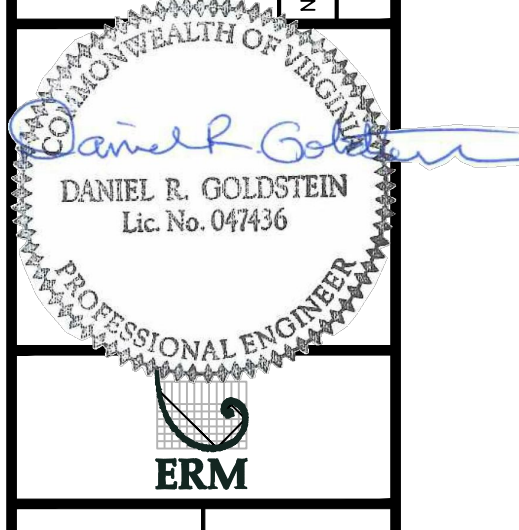
LEGEND

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

NOTES:

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- BELTED SILT RETENTION FENCE (BSRF) SHALL BE INSTALLED PARALLEL TO CONTOUR TO EXTENT PRACTICABLE IN ACCORDANCE WITH STANDARD DETAIL. SEDIMENT BARRIER LOCATIONS ARE SUBJECT TO CHANGE BASED ON FIELD CONDITIONS WITH APPROVAL FROM THE PROJECT ENVIRONMENTAL 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.
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NO.	DATE	BY	CHKD.	APPD.	DESCRIPTION



PROJECT NO./DASH NO.
C140468

TASK NO. SUB TASK NO.
005 00

GROUP ID DRAWING NO.
D E274

274 OF 344

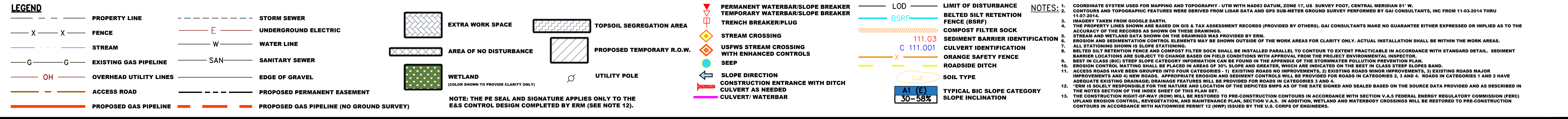
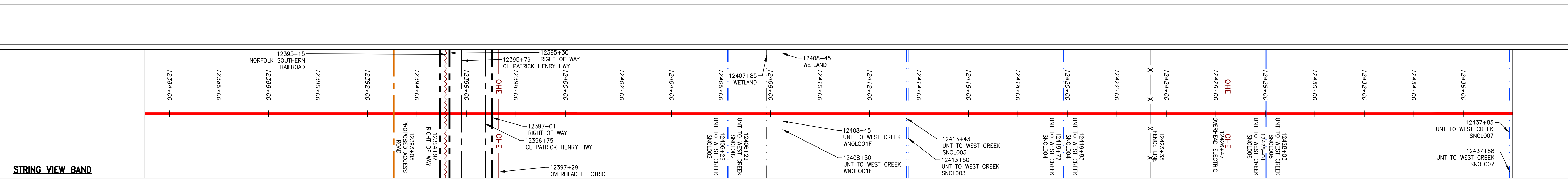
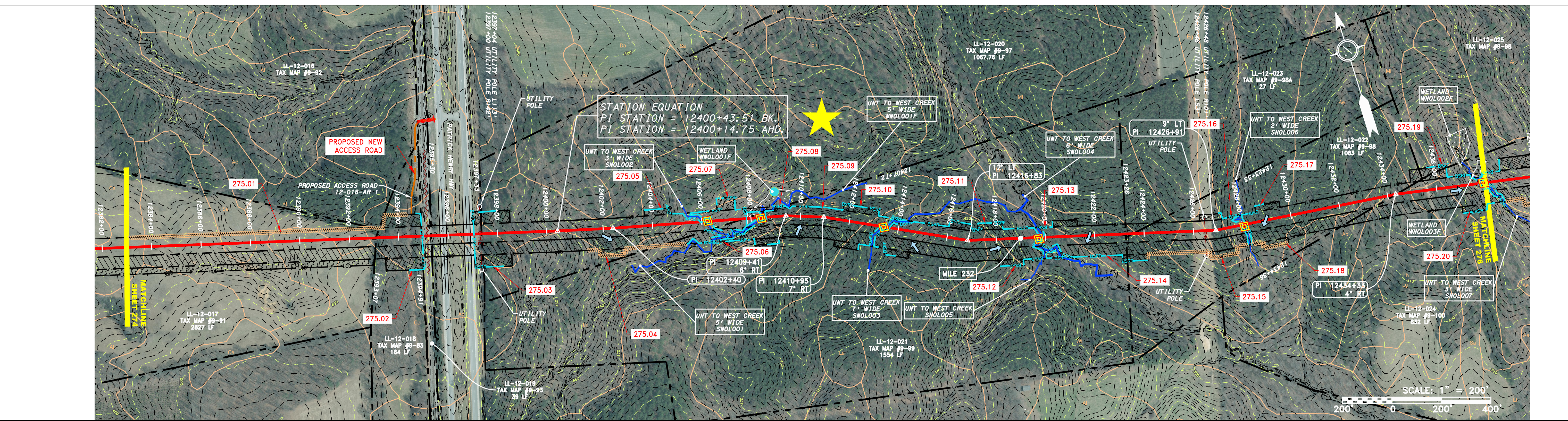
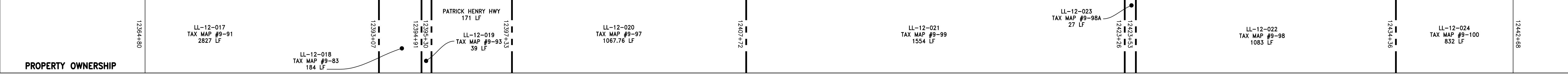
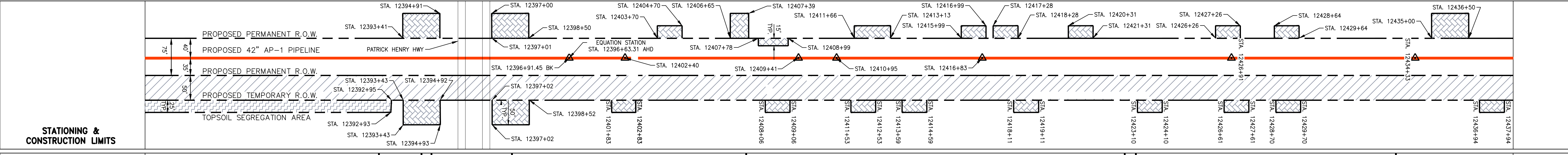
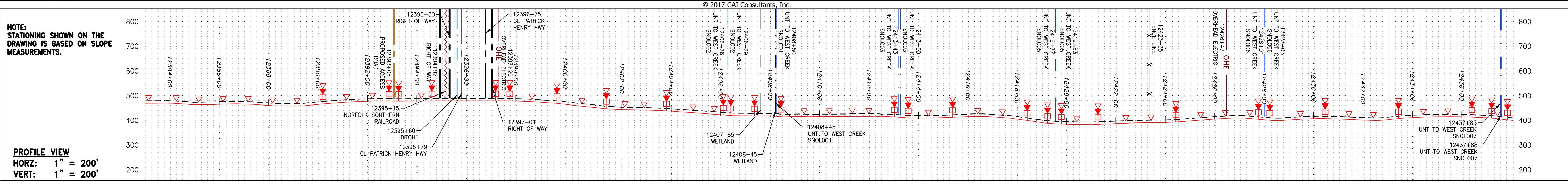
42" AP-1 PIPELINE
 CONSTRUCTION ALIGNMENT STA. 12328+00 TO 12383+00

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

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



PROJECT NO./DASH NO.	C140468
TASK NO. SUB TASK NO.	005 00
GROUP ID DRAWING NO.	D E274
274 OF 344	



REVISIONS

NO.	DATE	BY	CHKD.	APPD.	DESCRIPTION

Professional Engineer
 DANIEL R. GOLDSTEIN
 Lic No. 047436

ERM

42" AP-1 PIPELINE
 CONSTRUCTION ALIGNMENT STA. 12383+00 TO 12438+00

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

SCALE: AS SHOWN

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APPROVED: NET



PROJECT NO./DASH NO.
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TASK NO. SUB TASK NO.
 005 00

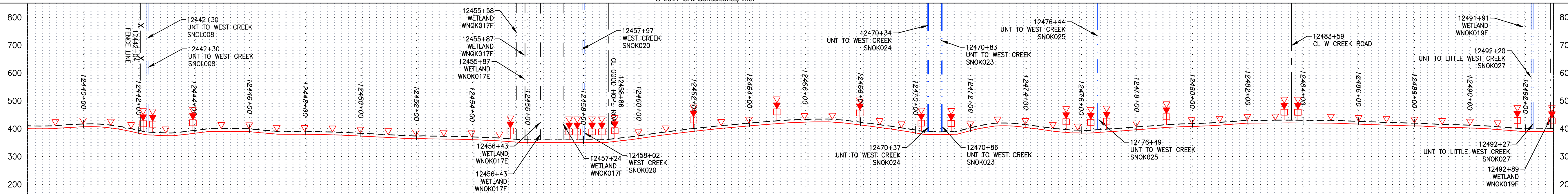
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275 OF 344

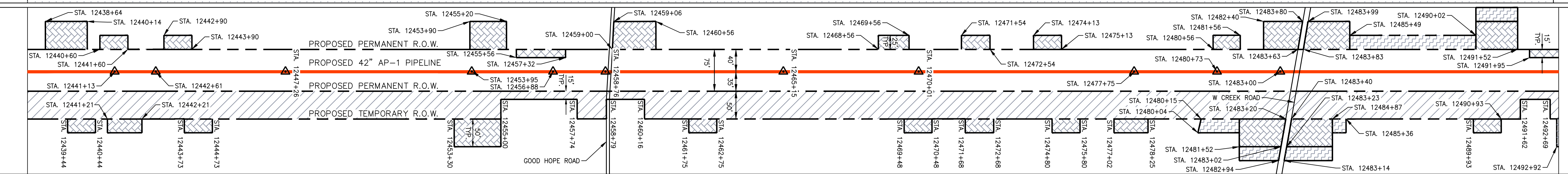
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NOTE: STATIONING SHOWN ON THE DRAWING IS BASED ON SLOPE MEASUREMENTS.

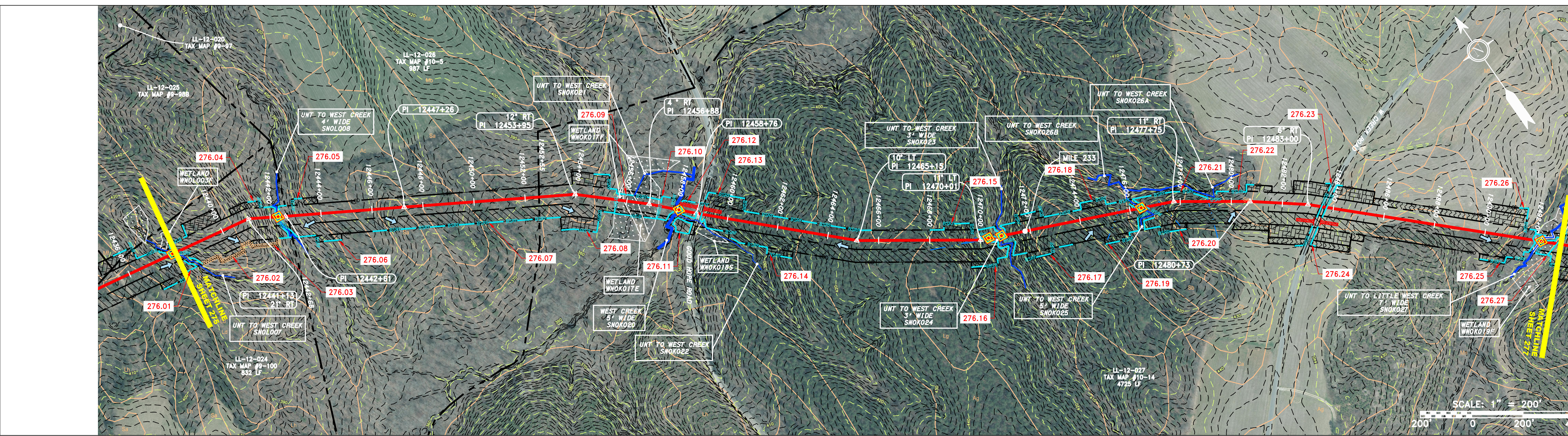
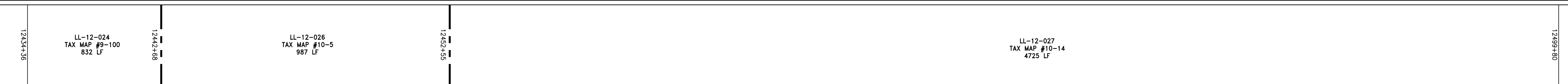
PROFILE VIEW
 HORZ: 1" = 200'
 VERT: 1" = 200'



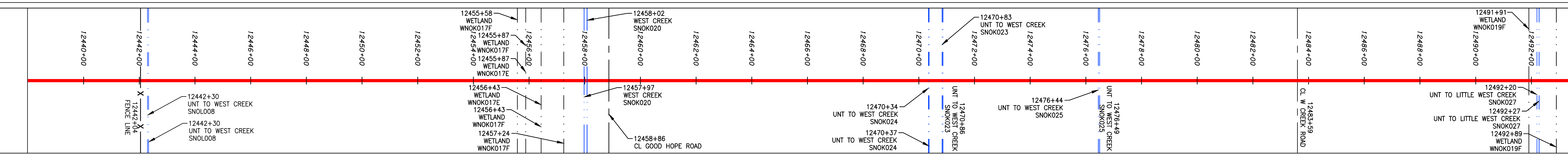
STATIONING & CONSTRUCTION LIMITS



PROPERTY OWNERSHIP



STRING VIEW BAND

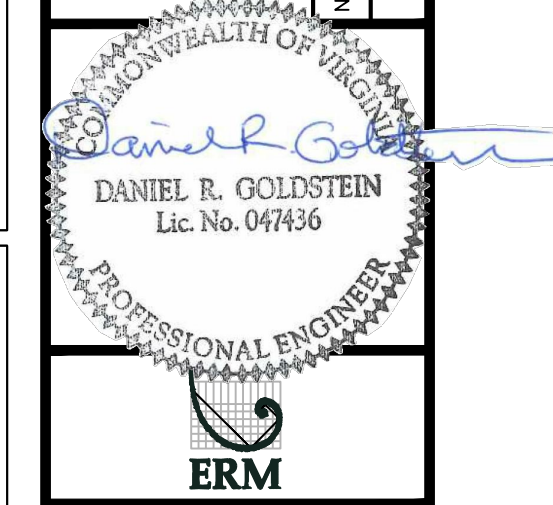


LEGEND

- PROPERTY LINE
- - - STORM SEWER
- - - UNDERGROUND ELECTRIC
- - - WATER LINE
- - - SANITARY SEWER
- - - EDGE OF GRAVEL
- - - PROPOSED PERMANENT EASEMENT
- - - PROPOSED GAS PIPELINE
- - - PROPOSED GAS PIPELINE (NO GROUND SURVEY)
- X X FENCE
- STREAM
- G G EXISTING GAS PIPELINE
- OH OVERHEAD UTILITY LINES
- ACCESS ROAD
- PROPOSED PERMANENT R.O.W.
- PROPOSED TEMPORARY R.O.W.
- WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)
- EXTRA WORK SPACE
- AREA OF NO DISTURBANCE
- TOPSOIL SEGREGATION AREA
- PROPOSED TEMPORARY R.O.W.
- UTILITY POLE
- PERMANENT WATERBAR/SLOPE BREAKER
- TEMPORARY WATERBAR/SLOPE BREAKER
- TRENCH BREAKER/PLUG
- STREAM CROSSING
- USPWS STREAM CROSSING WITH ENHANCED CONTROLS
- SLEEP
- 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
- AT (S) 30-58% TYPICAL BIC SLOPE CATEGORY SLOPE INCLINATION

- NOTES:
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NO.	DATE	BY	CHKD.	APPD.	DESCRIPTION

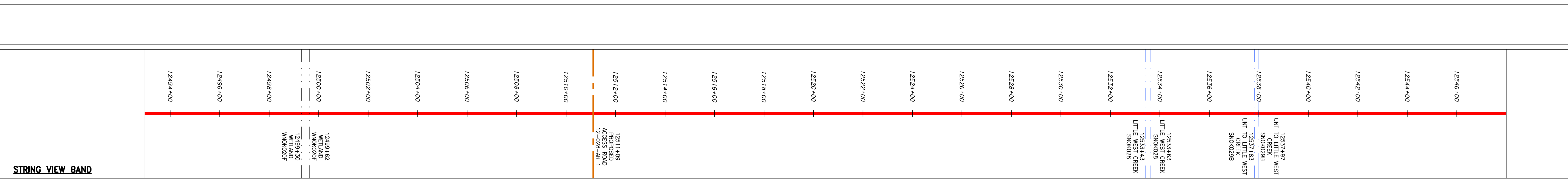
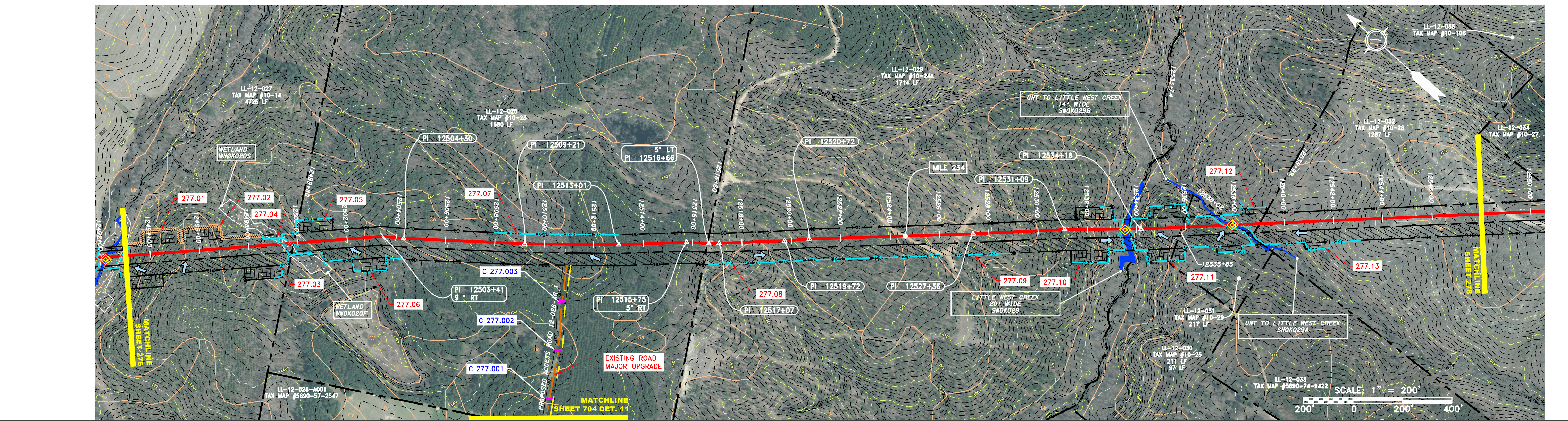
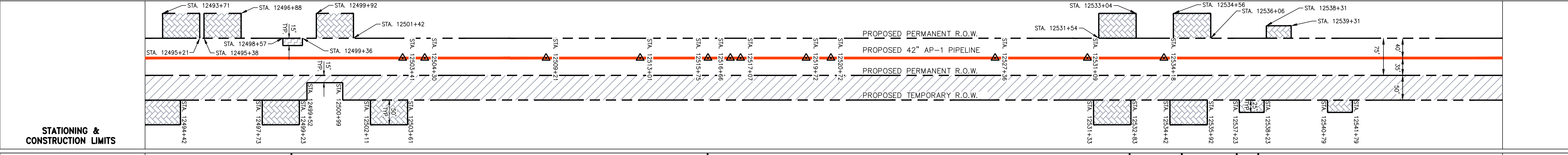
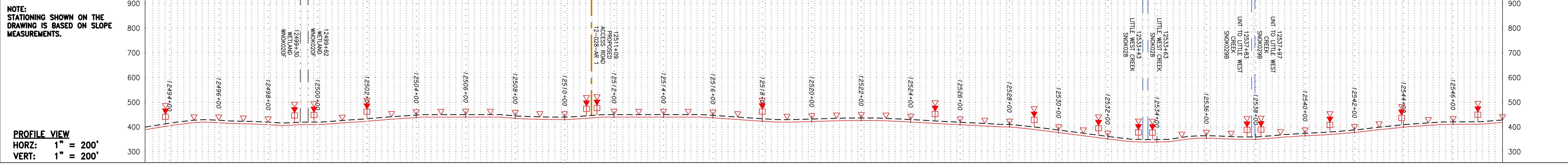


ATLANTIC COAST PIPELINE, LLC
 C/O DOMINION TRANSMISSION, INC.
 925 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330
 NOTTOWAY COUNTY, VIRGINIA

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

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

PROJECT NO./DASH NO.	C140468
TASK NO. SUB TASK NO.	005 00
GROUP ID DRAWING NO.	D E276
276 OF 344	



LEGEND

— X — X —	PROPERTY LINE	— E —	STORM SEWER	[Hatched Box]	EXTRA WORK SPACE	— 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	— W —	UNDERGROUND ELECTRIC	[Hatched Box]	TOPSOIL SEGREGATION AREA	— 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.
— G — G —	EXISTING GAS PIPELINE	— SAN —	SANITARY SEWER	[Hatched Box]	AREA OF NO DISTURBANCE	[Hatched Box]	COMPOST FILTER SOCK	3. ALL STATIONING SHOWN IS SLOPE STATIONING.
— OH —	OVERHEAD UTILITY LINES	— EDGE OF GRAVEL —	EDGE OF GRAVEL	[Hatched Box]	PROPOSED TEMPORARY R.O.W.	[Hatched Box]	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.
— A1 (E) —	PROPOSED GAS PIPELINE	— PROPOSED PERMANENT EASEMENT —	PROPOSED PERMANENT EASEMENT	[Hatched Box]	UTILITY POLE	[Hatched Box]	ORANGE SAFETY FENCE	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.
							ROADSIDE DITCH	6. 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.
							SOIL TYPE	7. BEST IN CLASS (BIC) STEEP SLOPE CATEGORY INFORMATION CAN BE FOUND IN THE APPENDIX OF THE STORMWATER POLLUTION PREVENTION PLAN.
							TYPICAL BIC SLOPE CATEGORY SLOPE INCLINATION	8. EROSION CONTROL MATING SHALL BE PLACED IN AREAS OF 30% SLOPE AND GREATER, WHICH ARE INDICATED ON THE BEST IN CLASS STEEP SLOPE BAND.
								9. 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 SEDIMENTATION CONTROLS WILL BE INDICATED 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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								11. THE CONSTRUCTION RIGHT-OF-WAY (ROW) WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS IN ACCORDANCE WITH SECTION V.A.5 FEDERAL ENERGY REGULATORY COMMISSION (FERC) UPLAND EROSION CONTROL, REVISION, 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.

NOTES:

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REVISIONS

NO.	DATE	BY	APPD.	DESCRIPTION

DANIEL R. GOLDSTEIN
 Lic No. 047436
ERM

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

42" AP-1 PIPELINE
 CONSTRUCTION ALIGNMENT STA. 12493+00 TO 12548+00

SCALE: AS SHOWN

DATE: 11/23/2016

DRAWN: JFS

CHECKED: DLH

APPROVED: NET

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

PROJECT NO./DASH NO.
C140468

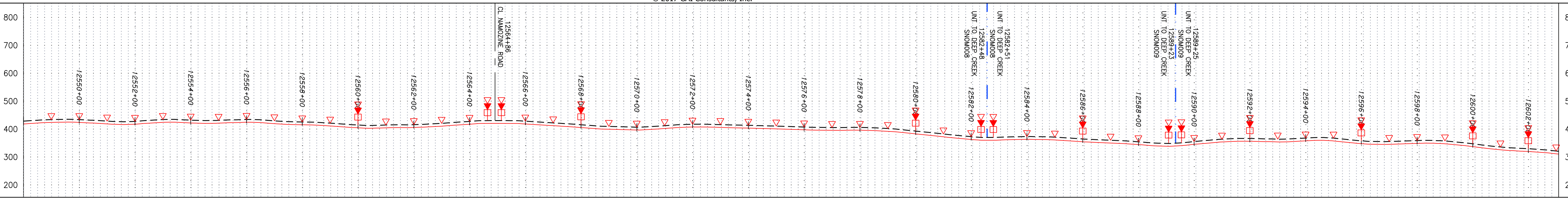
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005 00

GROUP ID DRAWING NO.
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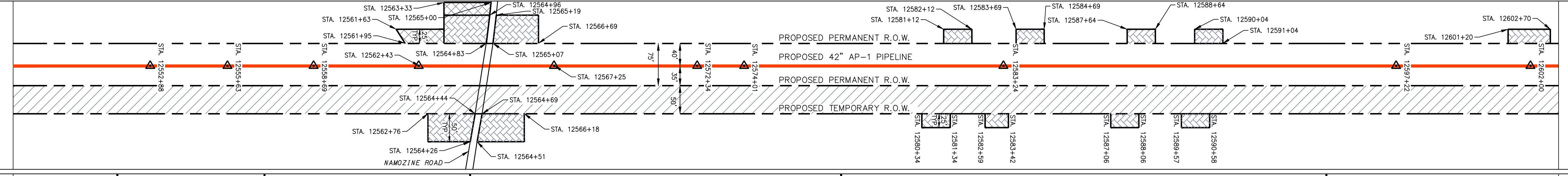
277 OF 344

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

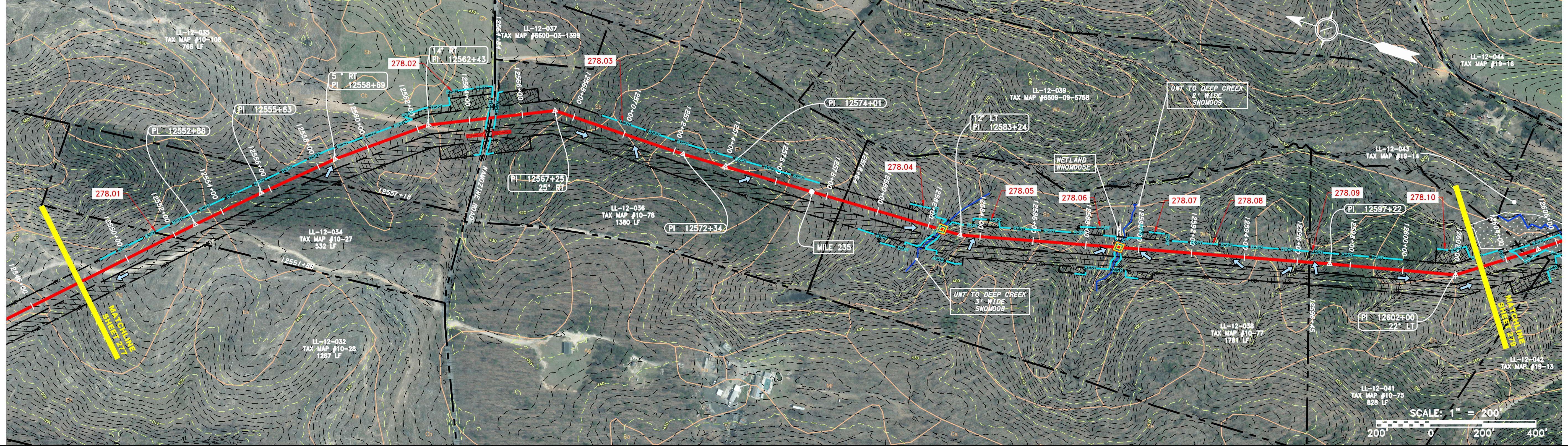
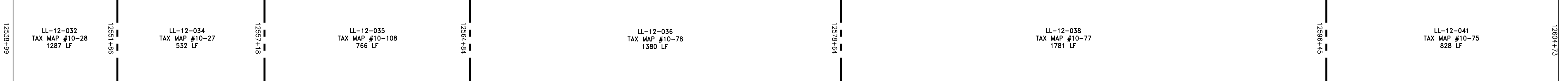
PROFILE VIEW
 HORZ: 1" = 200'
 VERT: 1" = 200'



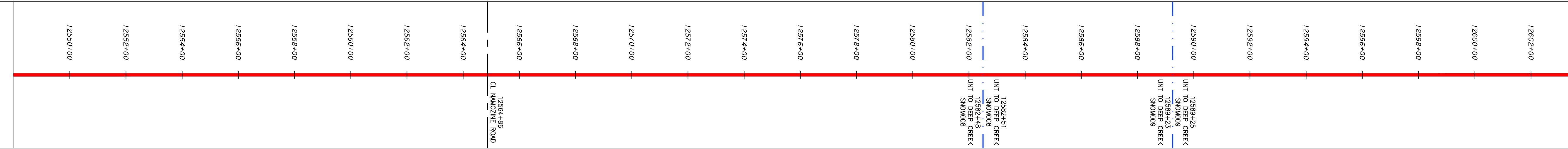
STATIONING & CONSTRUCTION LIMITS



PROPERTY OWNERSHIP



STRING VIEW BAND



LEGEND

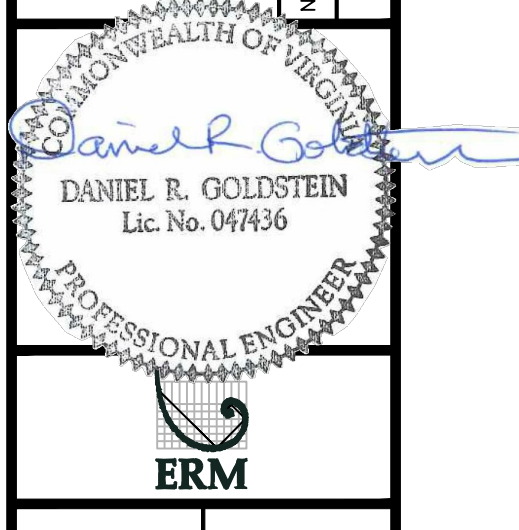
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X X	FENCE	E	UNDERGROUND ELECTRIC	▨	AREA OF NO DISTURBANCE	▨	PROPOSED TEMPORARY R.O.W.
—	STREAM	W	WATER LINE	▨	WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)	⊕	UTILITY POLE
G G	EXISTING GAS PIPELINE	SAN	SANITARY SEWER	—	—	—	—
OH	OVERHEAD UTILITY LINES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

▨	PERMANENT WATERBAR/SLOPE BREAKER	—	LOD	—	LIMIT OF DISTURBANCE
▨	TEMPORARY WATERBAR/SLOPE BREAKER	—	BSRF	—	BELTED SILT RETENTION FENCE (BSRF)
▨	TRENCH BREAKER/PLUG	—	111.03	—	COMPOST FILTER SOCK
▨	STREAM CROSSING	—	C 111.001	—	SEDIMENT BARRIER IDENTIFICATION
▨	USPWS STREAM CROSSING WITH ENHANCED CONTROLS	—	X	—	ORANGE SAFETY FENCE
▨	SEEP	—	—	—	ROADSIDE DITCH
▨	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.
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- BEST IN CLASS (BIC) STEEP SLOPE CATEGORY INFORMATION CAN BE FOUND IN THE APPENDIX OF THE STORMWATER POLLUTION PREVENTION PLAN.
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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) UPLAND EROSION CONTROL, REVEGETATION, AND MAINTENANCE PLAN, SECTION V.A.5. IN ADDITION, WETLAND AND WATERBODY CROSSINGS WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS IN ACCORDANCE WITH NATIONWIDE PERMIT 12 (NWP) ISSUED BY THE U.S. CORPS OF ENGINEERS.

NO.	DATE	BY	CHKD.	APPD.	DESCRIPTION

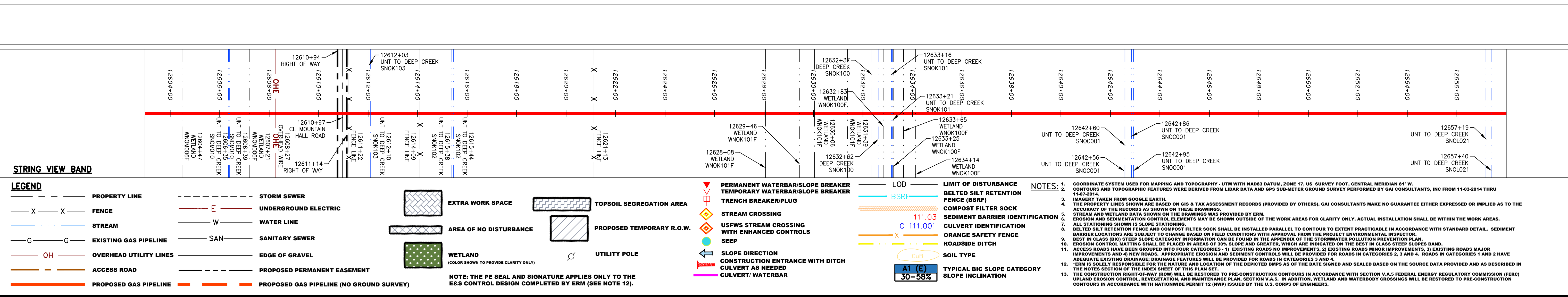
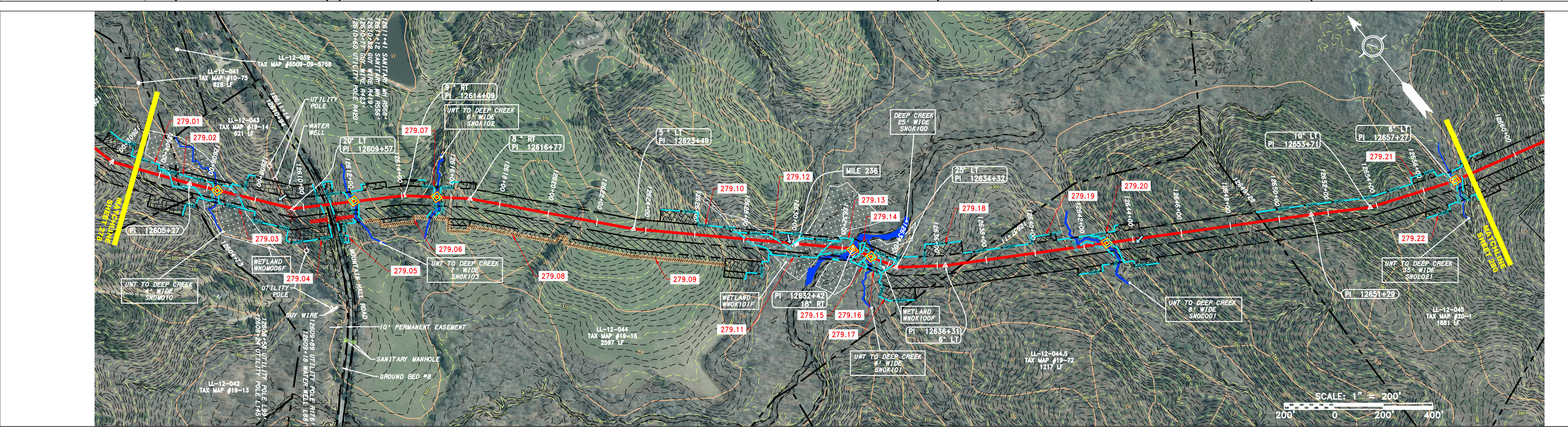
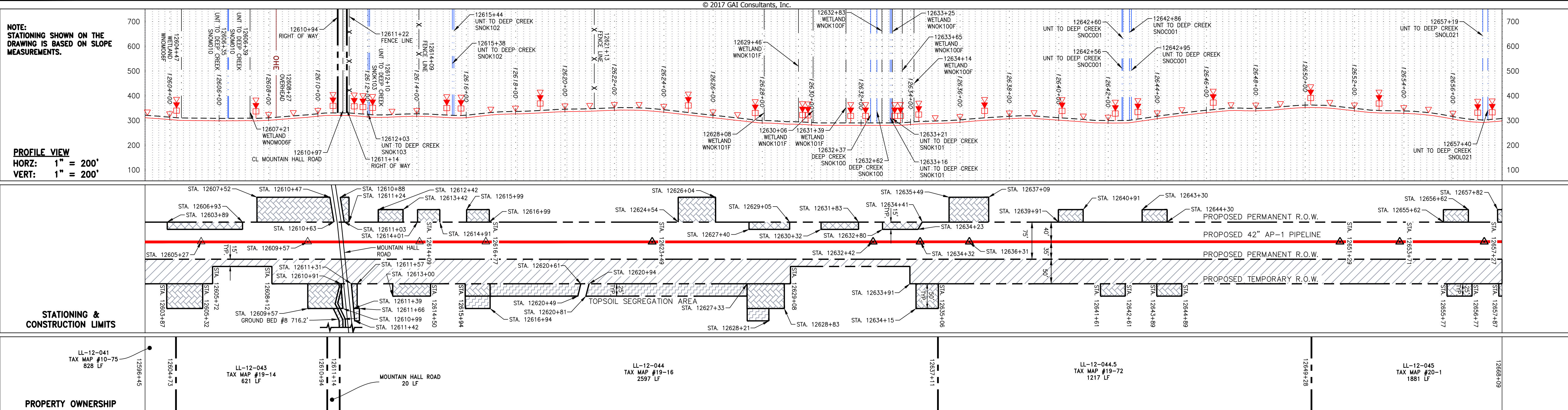


ATLANTIC COAST PIPELINE, LLC
 C/O DOMINION TRANSMISSION, INC.
 925 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330
 NOTTOWAY COUNTY, VIRGINIA

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



PROJECT NO./DASH NO.	C140468
TASK NO. SUB TASK NO.	005 00
GROUP ID DRAWING NO.	D E278
278 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 11-27-2014. 3. IMAGERY TAKEN FROM GOOGLE EARTH. 4. THE PROPERTY LINES SHOWN ARE BASED ON GIS & TAX ASSESSMENT RECORDS (PROVIDED BY OTHERS). GAI CONSULTANTS MAKE NO GUARANTEE EITHER EXPRESSED OR IMPLIED AS TO THE ACCURACY OF THE RECORDS AS SHOWN ON THESE DRAWINGS. 5. STREAM AND WETLAND DATA SHOWN ON THE DRAWINGS MAY BE BASED ON DATA PROVIDED BY ERM. 6. EROSION AND SEDIMENTATION CONTROL ELEMENTS MAY BE SHOWN OUTSIDE OF THE WORK AREAS FOR CLARITY ONLY. ACTUAL INSTALLATION SHALL BE WITHIN THE WORK AREA. 7. ALL STATIONING SHOWN IS SLOPE STATIONING. 8. 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 IDENTIFICATION CAN BE FOUND IN THE APPENDIX OF THE STORMWATER POLLUTION PREVENTION PLAN. 10. EROSION CONTROL MATING SHALL BE PLACED IN AREAS OF 3% SLOPE AND GREATER, WHICH ARE INDICATED ON THE BEST IN CLASS STEEP SLOPE BAND. 11. ACCESS ROADS HAVE BEEN GROUPED INTO FOUR CATEGORIES - 1) EXISTING ROADS NO IMPROVEMENTS, 2) EXISTING ROADS MINOR IMPROVEMENTS, 3) EXISTING ROADS MAJOR IMPROVEMENTS AND 4) NEW ROADS. APPROPRIATE EROSION AND SEDIMENTATION CONTROLS WILL BE PROVIDED FOR ROADS IN CATEGORIES 2, 3 AND 4. ROADS IN CATEGORIES 1 AND 2 HAVE ADEQUATE EXISTING DRAINAGE. DRAINAGE FEATURES WILL BE PROVIDED FOR ROADS IN CATEGORIES 3 AND 4. 12. ERM IS SOLELY RESPONSIBLE FOR THE NATURE AND LOCATION OF THE DEPICTED BMPs AS OF THE DATE SIGNED AND SEALED BASED ON THE SOURCE DATA PROVIDED AND AS DESCRIBED IN THE NOTES SECTION OF THE INDEX SHEET OF THIS PLAN SET. 13. THE CONSTRUCTION RIGHT-OF-WAY (ROW) WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS IN ACCORDANCE WITH SECTION V.A.5 FEDERAL EROSION REGULATORY COMMISSION (FERC) UPLAND EROSION CONTROL, REVEGETATION, AND MAINTENANCE PLAN, SECTION V.A.5. IN ADDITION, WETLAND AND WATERBODY CROSSINGS WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS IN ACCORDANCE WITH NATIONWIDE PERMIT 12 (NWP) ISSUED BY THE U.S. CORPS OF ENGINEERS.
-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	⚠	DIAMOND CROSSING	—	—	—	COMPOST FILTER SOCK	
—G—	EXISTING GAS PIPELINE	—SAN—	SANITARY SEWER	▨	WETLAND	▨	UTILITY POLE	⚠	USPWS STREAM CROSSING WITH ENHANCED CONTROLS	—	—	—	SEDIMENT BARRIER IDENTIFICATION	
—OH—	OVERHEAD UTILITY LINES	—EDGE—	EDGE OF GRAVEL	▨	WETLAND	▨	UTILITY POLE	⚠	SLEEP	—	—	—	ORANGE SAFETY FENCE	
—	ACCESS ROAD	—	PROPOSED PERMANENT EASEMENT	▨	WETLAND	▨	UTILITY POLE	⚠	CONSTRUCTION ENTRANCE WITH DITCH	—	—	—	ROADSIDE DITCH	
—	PROPOSED GAS PIPELINE	—	PROPOSED GAS PIPELINE (NO GROUND SURVEY)	▨	WETLAND	▨	UTILITY POLE	⚠	CULVERT/WATERBAR	—	—	—	SOIL TYPE	
				▨	WETLAND	▨	UTILITY POLE	⚠		—	—	—	TYPICAL BIC SLOPE CATEGORY	
				▨	WETLAND	▨	UTILITY POLE	⚠		—	—	—	SLOPE INCLINATION	
				▨	WETLAND	▨	UTILITY POLE	⚠		—	—	—		
				▨	WETLAND	▨	UTILITY POLE	⚠		—	—	—		
				▨	WETLAND	▨	UTILITY POLE	⚠		—	—	—		
				▨	WETLAND	▨	UTILITY POLE	⚠		—	—	—		

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

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

CONSTRUCTION ALIGNMENT STA. 12603+00 TO 12658+00
 42" AP-1 PIPELINE

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

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

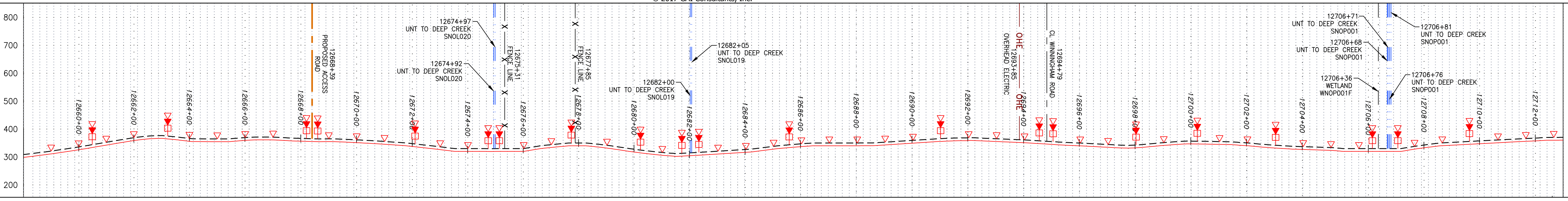
PROJECT NO./DASH NO.	C140468
TASK NO./SUB TASK NO.	005 / 00
GROUP ID	D
DRAWING NO.	E279
279	OF 344

6/1/2017 11:11 a.m.

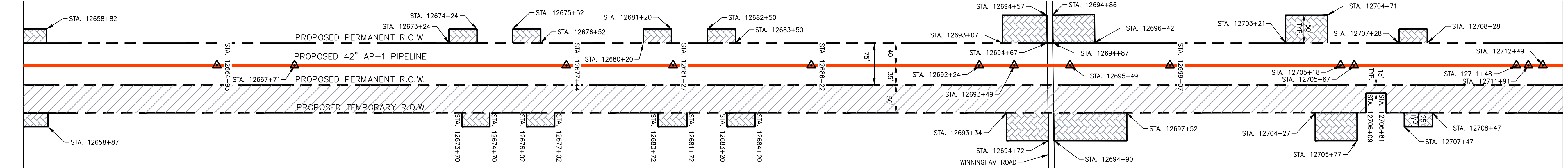
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NOTE: STATIONING SHOWN ON THE DRAWING IS BASED ON SLOPE MEASUREMENTS.

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

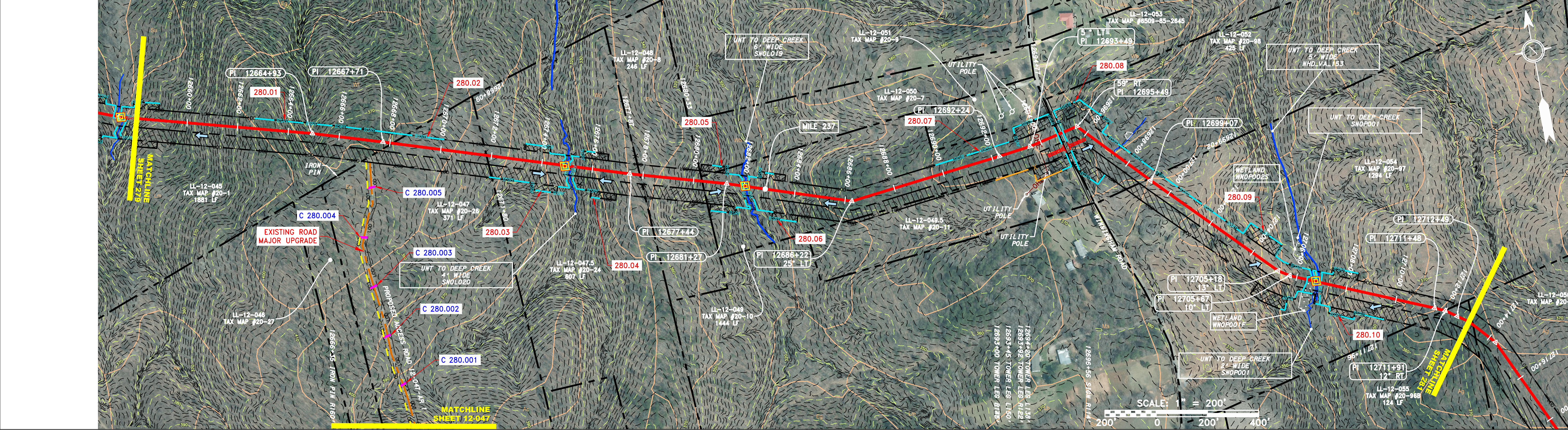


STATIONING & CONSTRUCTION LIMITS

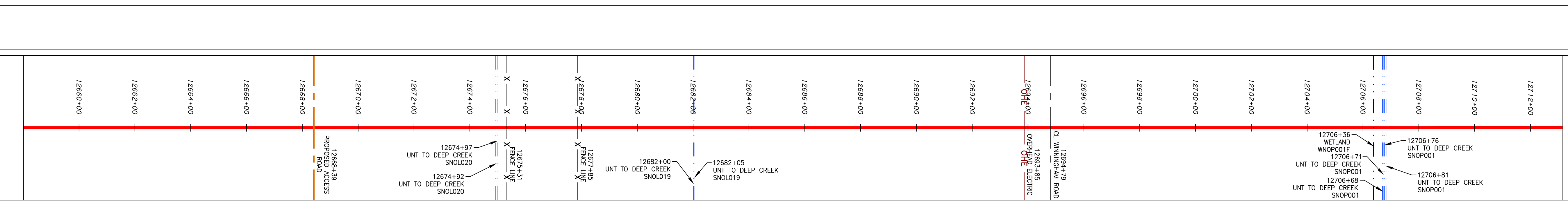


PROPERTY OWNERSHIP

12649+28	LL-12-045 TAX MAP #20-1 1881 LF	12668+09	LL-12-047 TAX MAP #20-26 371 LF	12671+80	LL-12-047.5 TAX MAP #20-24 607 LF	12677+87	LL-12-048 TAX MAP #20-8 246 LF	12680+33	LL-12-049 TAX MAP #20-10 1444 LF	12694+77	LL-12-052 TAX MAP #20-98 425 LF	12699+02	LL-12-054 TAX MAP #20-97 1294 LF	12711+96	LL-12-055 TAX MAP #20-968 124 LF	12713+20
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STRING VIEW BAND



LEGEND

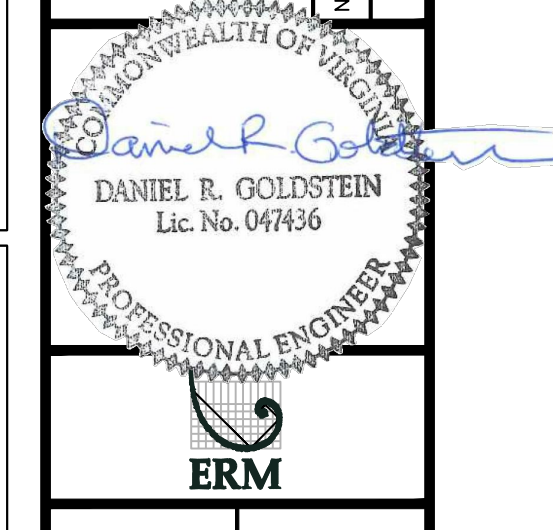
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X X	FENCE	E	UNDERGROUND ELECTRIC	—	AREA OF NO DISTURBANCE	—	PROPOSED TEMPORARY R.O.W.
—	STREAM	W	WATER LINE	—	WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)	—	UTILITY POLE
G G	EXISTING GAS PIPELINE	SAN	SANITARY SEWER	—	—	—	—
OH	OVERHEAD UTILITY LINES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

—	PERMANENT WATERBAR/SLOPE BREAKER	—	LOD	—	LIMIT OF DISTURBANCE
—	TEMPORARY WATERBAR/SLOPE BREAKER	—	BSRF	—	BELTED SILT RETENTION FENCE (BSRF)
—	TRENCH BREAKER/PLUG	—	—	—	COMPOST FILTER SOCK
—	STREAM CROSSING	—	—	—	SEDIMENT BARRIER IDENTIFICATION
—	USPWS STREAM CROSSING WITH ENHANCED CONTROLS	—	—	—	ORANGE SAFETY FENCE
—	SLEEP	—	—	—	ROADSIDE DITCH
—	SLOPE DIRECTION	—	—	—	SOIL TYPE
—	CONSTRUCTION ENTRANCE WITH DITCH	—	—	—	TYPICAL BIC SLOPE CATEGORY
—	CULVERT AS NEEDED	—	—	—	SLOPE INCLINATION
—	CULVERT/WATERBAR	—	—	—	—

NOTES:

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NO.	DATE	BY	CHKD.	APPD.	DESCRIPTION



42" AP-1 PIPELINE
 CONSTRUCTION ALIGNMENT STA. 12658+00 TO 12713+00
 NOTTOWAY COUNTY, VIRGINIA
 ATLANTIC COAST PIPELINE, LLC
 C/O DOMINION TRANSMISSION, INC.
 925 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330

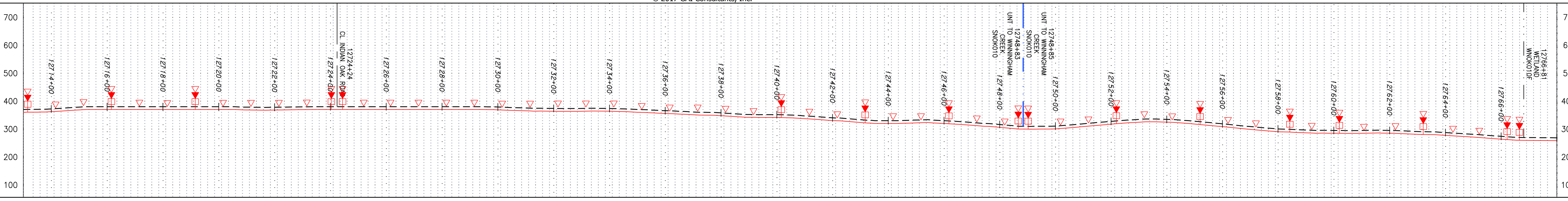
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DATE:	11/23/2016
DRAWN:	JFS
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APPROVED:	NET



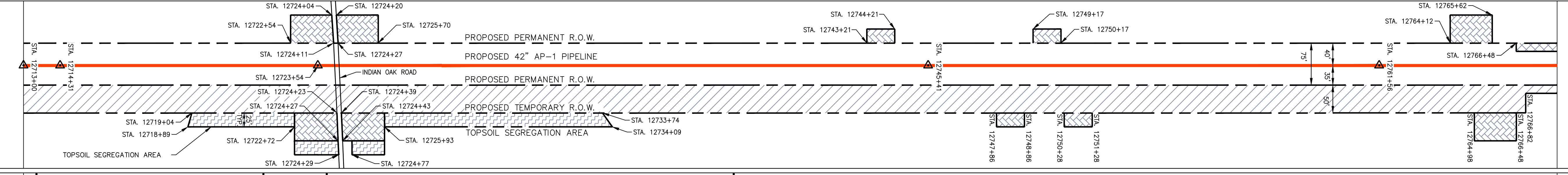
PROJECT NO./DASH NO.	C140468
TASK NO. SUB TASK NO.	005 00
GROUP ID DRAWING NO.	D E280
280 OF 344	

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

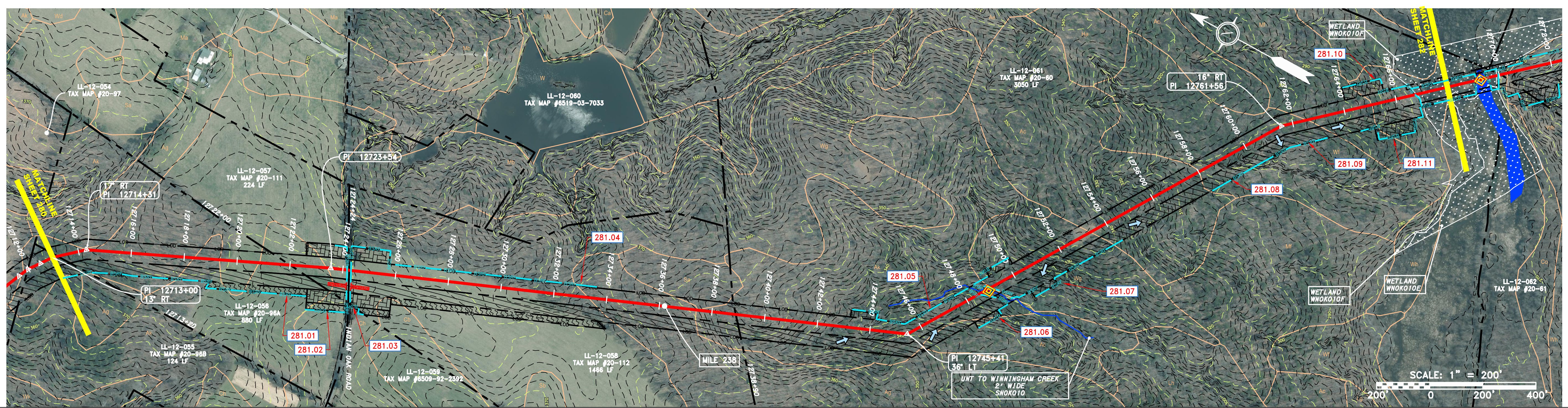
PROFILE VIEW
 HORIZ: 1" = 200'
 VERT: 1" = 200'



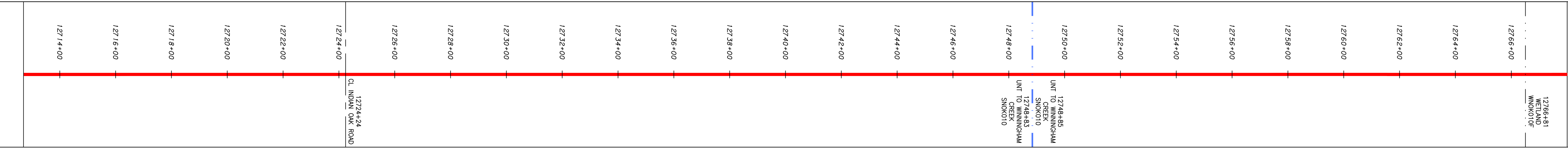
STATIONING & CONSTRUCTION LIMITS



PROPERTY OWNERSHIP



STRING VIEW BAND



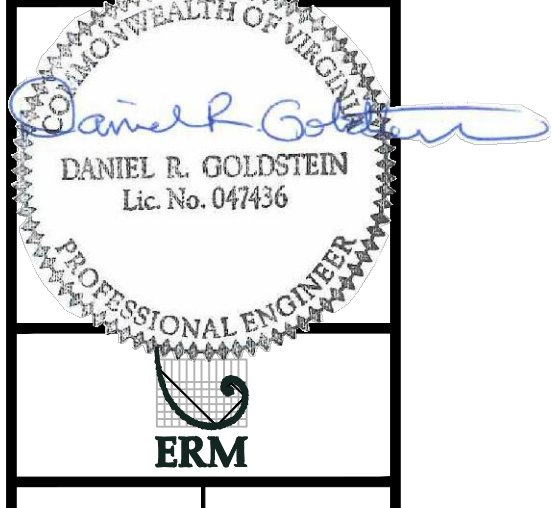
LEGEND

- PROPERTY LINE
- - - STORM SEWER
- X X FENCE
- UNDERGROUND ELECTRIC
- STREAM
- WATER LINE
- G G EXISTING GAS PIPELINE
- SAN
- OH
- OVERHEAD UTILITY LINES
- EDGE OF GRAVEL
- ACCESS ROAD
- PROPOSED PERMANENT EASEMENT
- PROPOSED GAS PIPELINE
- PROPOSED GAS PIPELINE (NO GROUND SURVEY)
- EXTRA WORK SPACE
- AREA OF NO DISTURBANCE
- WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)
- TOPSOIL SEGREGATION AREA
- PROPOSED TEMPORARY R.O.W.
- UTILITY POLE
- PERMANENT WATERBAR/SLOPE BREAKER
- TEMPORARY WATERBAR/SLOPE BREAKER
- TRENCH BREAKER/PLUG
- STREAM CROSSING
- USFWS STREAM CROSSING WITH ENHANCED CONTROLS
- SEEP
- SLOPE DIRECTION
- CONSTRUCTION ENTRANCE WITH DITCH
- 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:

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NO.	DATE	BY	CHKD.	APPD.	DESCRIPTION



PROJECT NO./DASH NO.
C140468

TASK NO. SUB TASK NO.
005 00

GROUP ID DRAWING NO.
D E281

281 OF 344

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

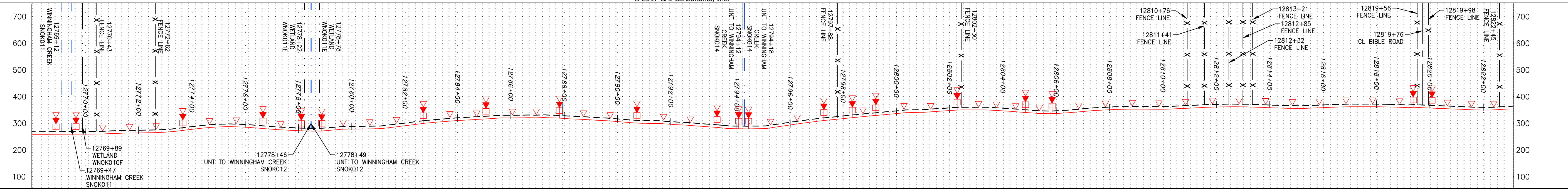
gai consultants

SOUTHPOINTE OFFICE
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 CANONSBURG, PA 15317
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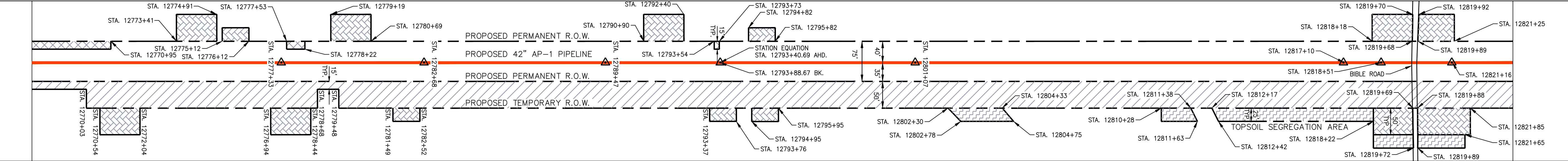
ATLANTIC COAST PIPELINE, LLC
 C/O DOMINION TRANSMISSION, INC.
 925 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330

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

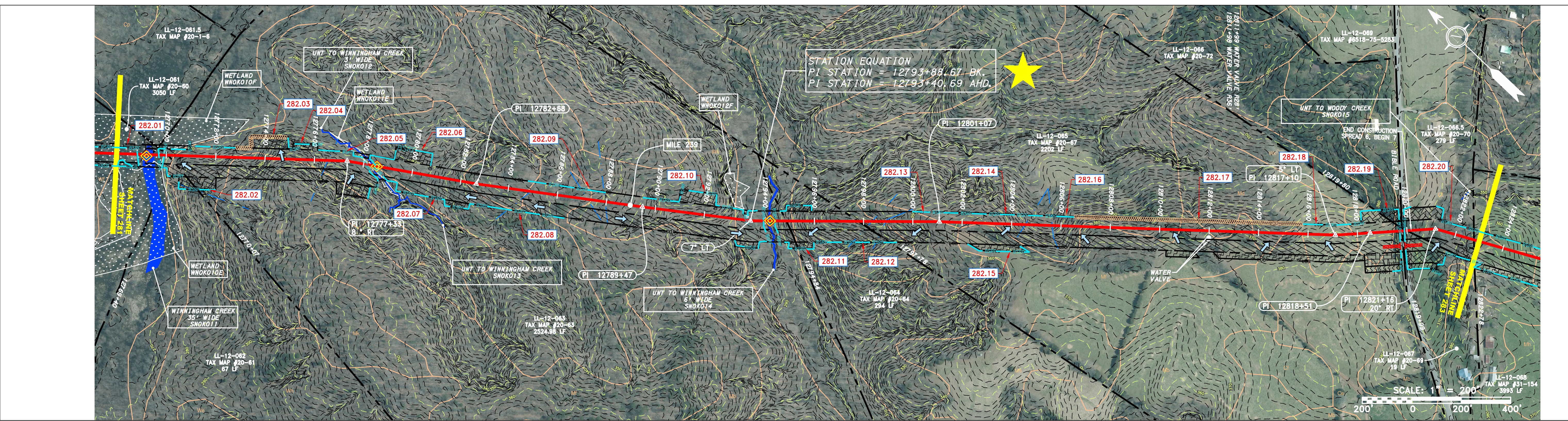
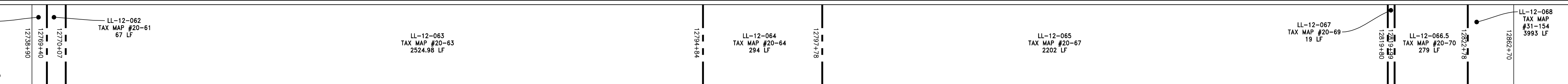
PROFILE VIEW
 HORZ: 1" = 200'
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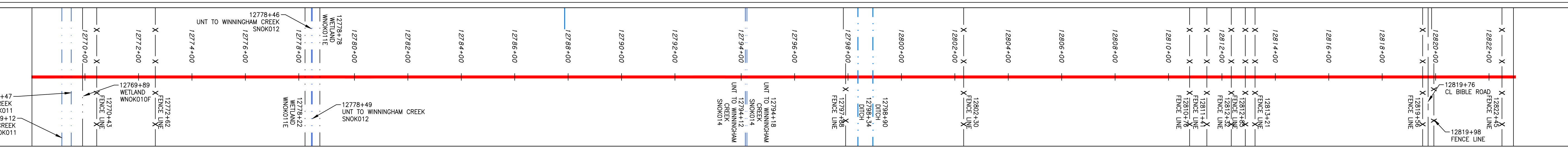
STATIONING & CONSTRUCTION LIMITS



PROPERTY OWNERSHIP



STRING VIEW BAND



LEGEND

<ul style="list-style-type: none"> — PROPERTY LINE X X FENCE — STREAM G G EXISTING GAS PIPELINE OH OVERHEAD UTILITY LINES — ACCESS ROAD — PROPOSED GAS PIPELINE 	<ul style="list-style-type: none"> — STORM SEWER — UNDERGROUND ELECTRIC W WATER LINE — SANITARY SEWER — EDGE OF GRAVEL — PROPOSED PERMANENT EASEMENT — PROPOSED GAS PIPELINE (NO GROUND SURVEY) 	<ul style="list-style-type: none"> EXTRA WORK SPACE AREA OF NO DISTURBANCE WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY) TOPSOIL SEGREGATION AREA PROPOSED TEMPORARY R.O.W. UTILITY POLE 	<ul style="list-style-type: none"> PERMANENT WATERBAR/SLOPE BREAKER TEMPORARY WATERBAR/SLOPE BREAKER TRENCH BREAKER/PLUG DIAMOND STREAM CROSSING USPWS STREAM CROSSING WITH ENHANCED CONTROLS SLEEP SLOPE DIRECTION CONSTRUCTION ENTRANCE WITH DITCH CULVERT AS NEEDED CULVERT/ WATERBAR 	<ul style="list-style-type: none"> LOD BSRF C 111.003 Cub A1 (E) 30-58% 	<ul style="list-style-type: none"> 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 	<p>NOTES:</p> <ol style="list-style-type: none"> 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 SHOWN OUTSIDE OF THE WORK AREAS FOR CLARITY ONLY. ACTUAL INSTALLATION SHALL BE WITHIN THE WORK AREAS. 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. 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. 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 3% SLOPE AND GREATER, WHICH ARE INDICATED ON THE BEST IN CLASS STEEP SLOPES 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 2 AND 4. 12. ERM IS SOLELY RESPONSIBLE FOR THE NATURE AND LOCATION OF THE DEPICTED BMPs AS OF THE DATE SIGNED AND SEALED BASED ON THE SOURCE DATA PROVIDED AND AS DESCRIBED IN THE NOTES SECTION OF THE INDEX SHEET OF THIS PLAN SET. 13. THE CONSTRUCTION RIGHT-OF-WAY (ROW) WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS IN ACCORDANCE WITH SECTION V.A.5 FEDERAL ENERGY REGULATORY COMMISSION (FERC) UPLAND EROSION CONTROL, REVEGETATION, AND MAINTENANCE PLAN, SECTION V.A.5. IN ADDITION, WETLAND AND WATERBODY CROSSINGS WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS IN ACCORDANCE WITH NATIONWIDE PERMIT 12 (NWP) ISSUED BY THE U.S. CORPS OF ENGINEERS.
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NO.	DATE	BY	CHKD.	APPD.	DESCRIPTION

DANIEL R. GOLDSTEIN
 Lic. No. 047436
 PROFESSIONAL ENGINEER

ERM

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

42" AP-1 PIPELINE
 CONSTRUCTION ALIGNMENT STA. 12768+00 TO 12823+00

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

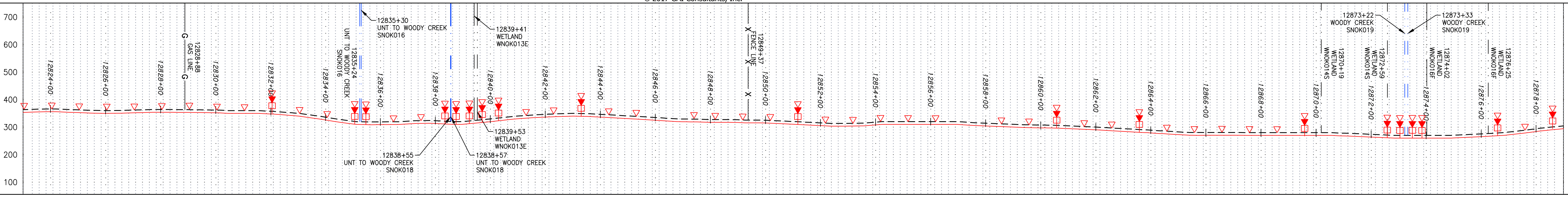
gai consultants

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

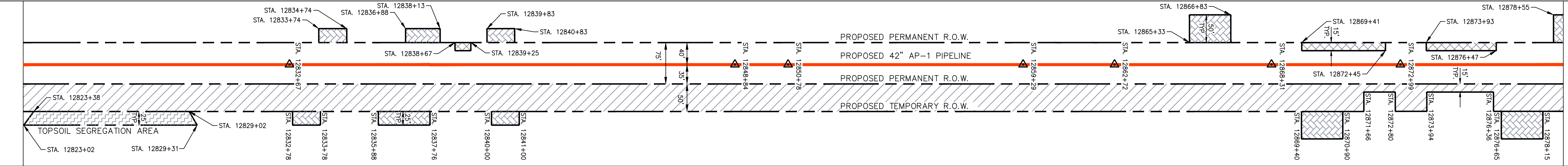
PROJECT NO./DASH NO.	C140468	
TASK NO.	005	00
GROUP ID	D	E282
DRAWING NO.	282	OF 344

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

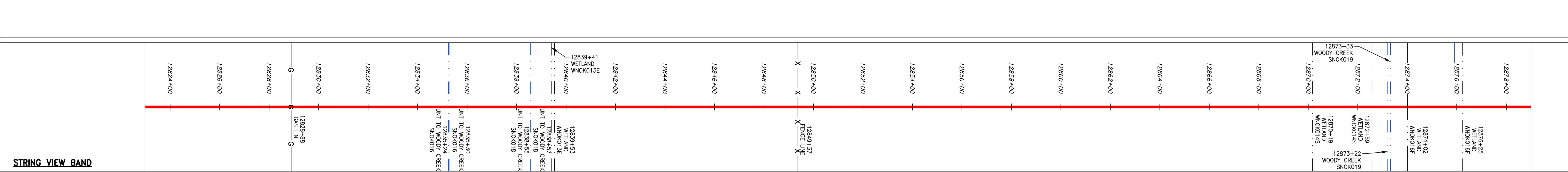
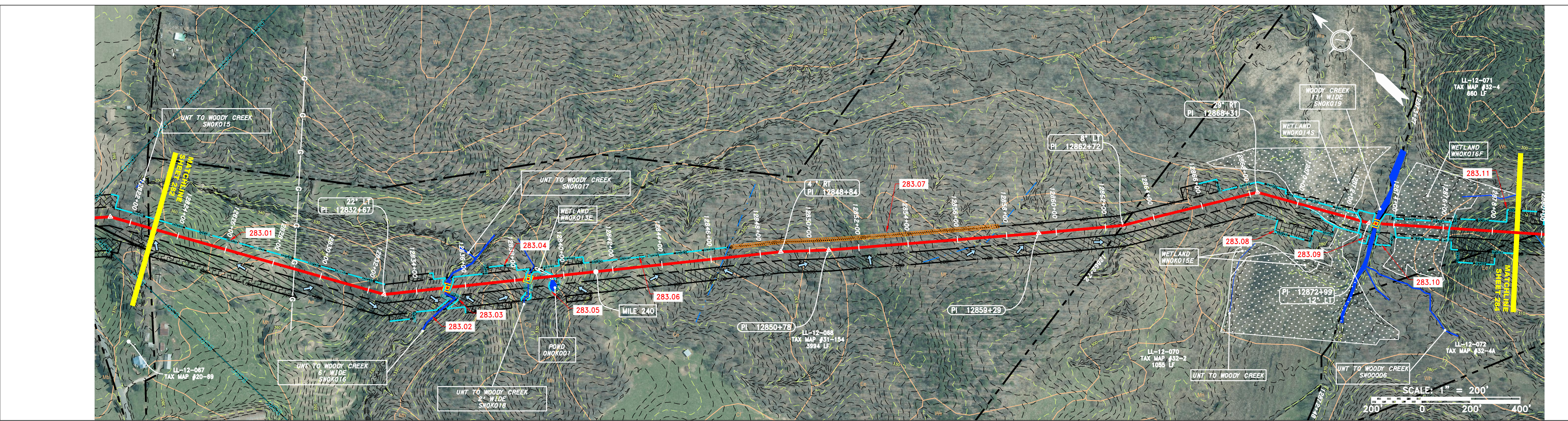
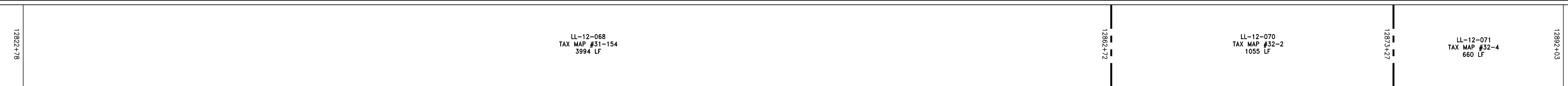
PROFILE VIEW
 HORZ: 1" = 200'
 VERT: 1" = 200'



STATIONING & CONSTRUCTION LIMITS



PROPERTY OWNERSHIP



LEGEND

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

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 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 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.
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