

NOTES:

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- STREAM AND WETLAND DATA SHOWN ON THE DRAWINGS WAS PROVIDED BY ERM.
- ALL STATIONING SHOWN IS SLOPE STATIONING.
- ERM AND JAMES HEMME, WV P. E. NO. 12195 (HEREAFTER COLLECTIVELY REFERRED TO AS ERM) HAVE DEPICTED EROSION AND SEDIMENTATION CONTROL (E&SC) BEST MANAGEMENT PRACTICES (BMPs) ON THESE ALIGNMENT PLAN SHEETS PREPARED BY GAI CONSULTANTS, INC. FOR USE BY CONTRACTOR TO CONTROL EROSION AND SEDIMENTATION DURING CONSTRUCTION OF THIS PROJECT. 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 GENERAL NOTES SECTION OF THIS PLAN SET. NO RESPONSIBILITY IS ASSUMED FOR INACCURACIES OF SOURCE DATA PROVIDED BY OTHERS. ERM RETAINS NO RESPONSIBILITY OF LIABILITY FOR INFORMATION DEVELOPED, PREPARED OR OTHERWISE PROVIDED BY OTHER, OR FOR INACCURACIES OF SOURCE DATA PROVIDED BY OTHER. ERM ASSUMES NO RESPONSIBILITY OR LIABILITY FOR DESIGNS OR WORK PRODUCTS OF ANY TYPE TO THE EXTENT THAT THEY ARE BASED UPON OR DERIVED FROM SUCH INCORRECT INFORMATION OR DATA.

ONE CALL INFO



Atlantic Coast PipelineSM

LEGEND

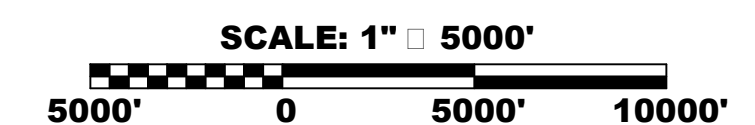
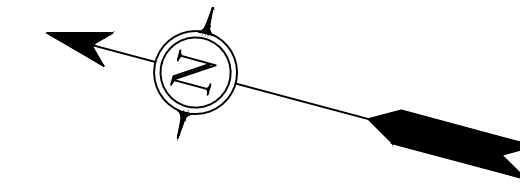
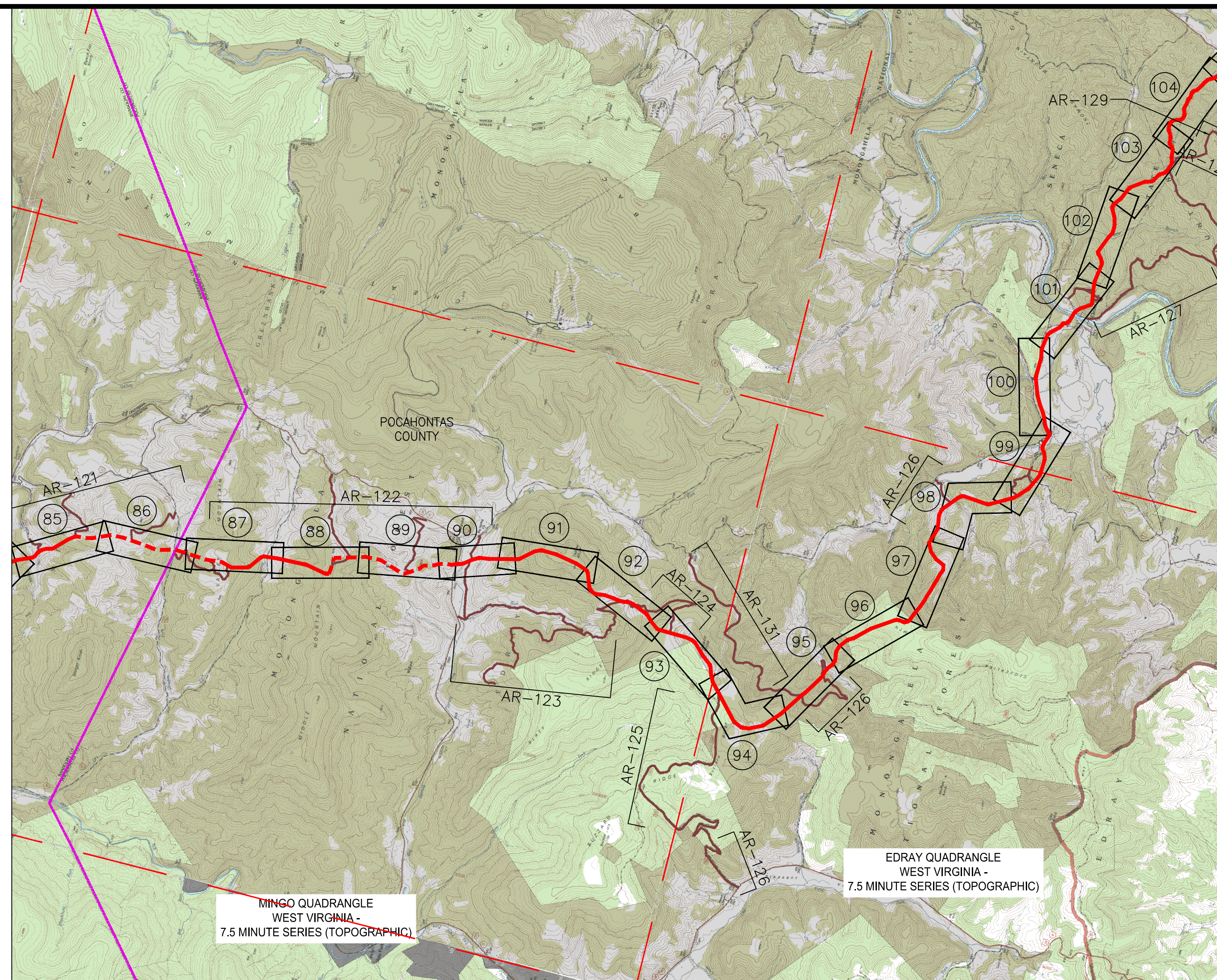
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- - - PROPOSED GAS PIPELINE (NO GROUND SURVEY)
- PROPOSED ACCESS ROAD
- COUNTY LINES
- USGS 7.5 MINUTE TOPOGRAPHICAL BOUNDARIES
- (XX) ALIGNMENT SHEET NUMBER
- AR-XXX ACCESS ROAD SHEET NUMBER

SPREAD 3 PIPELINE DRAWING INDEX	
SHEET NO.	REV.
1-5	INTENTIONALLY LEFT BLANK
6	COVER SHEET
7-84	INTENTIONALLY LEFT BLANK
85	CONSTRUCTION ALIGNMENT (STA 3762+00 TO 3816+00)
86	CONSTRUCTION ALIGNMENT (STA 3816+00 TO 3870+00)
87	CONSTRUCTION ALIGNMENT (STA 3870+00 TO 3924+00)
88	CONSTRUCTION ALIGNMENT (STA 3924+00 TO 3978+00)
89	CONSTRUCTION ALIGNMENT (STA 3978+00 TO 4032+00)
90	CONSTRUCTION ALIGNMENT (STA 4032+00 TO 4140+00)
91	CONSTRUCTION ALIGNMENT (STA 4140+00 TO 4194+00)

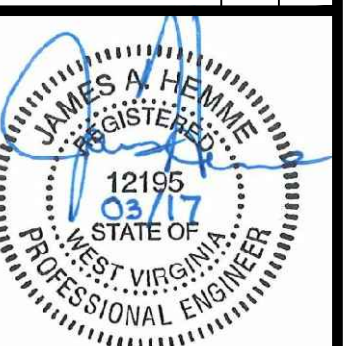
SPREAD 3 PIPELINE DRAWING INDEX	
SHEET NO.	REV.
92	CONSTRUCTION ALIGNMENT (STA 4194+00 TO 4248+00)
93	CONSTRUCTION ALIGNMENT (STA 4248+00 TO 4302+00)
94	CONSTRUCTION ALIGNMENT (STA 4302+00 TO 4356+00)
95	CONSTRUCTION ALIGNMENT (STA 4356+00 TO 4410+00)
96	CONSTRUCTION ALIGNMENT (STA 4410+00 TO 4464+00)
97	CONSTRUCTION ALIGNMENT (STA 4464+00 TO 4518+00)
98	CONSTRUCTION ALIGNMENT (STA 4518+00 TO 4572+00)
99	CONSTRUCTION ALIGNMENT (STA 4572+00 TO 4626+00)
100	CONSTRUCTION ALIGNMENT (STA 4626+00 TO 4680+00)
101	CONSTRUCTION ALIGNMENT (STA 4680+00 TO 4734+00)

SPREAD 3 PIPELINE DRAWING INDEX	
SHEET NO.	REV.
102	CONSTRUCTION ALIGNMENT (STA 4734+00 TO 4788+00)
103	CONSTRUCTION ALIGNMENT (STA 4788+00 TO 4842+00)
104	CONSTRUCTION ALIGNMENT (STA 4842+00 TO 4896+00)

ATLANTIC COAST PIPELINE PROJECT - 42" SPREAD 3



NO.	DATE	DWN.	CHKD.	APPD.	DESCRIPTION



42" SPREAD 3 PIPELINE
E & S CONTROLS COVER SHEET
RANDOLPH & POCAHONTAS COUNTIES, WEST VIRGINIA
ATLANTIC COAST PIPELINE, LLC
C/O DOMINION TRANSMISSION, INC.
925 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330

SCALE:	AS SHOWN
DATE:	6/5/17
DRAWN:	GOS
CHECKED:	DLH
APPROVED:	NET



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

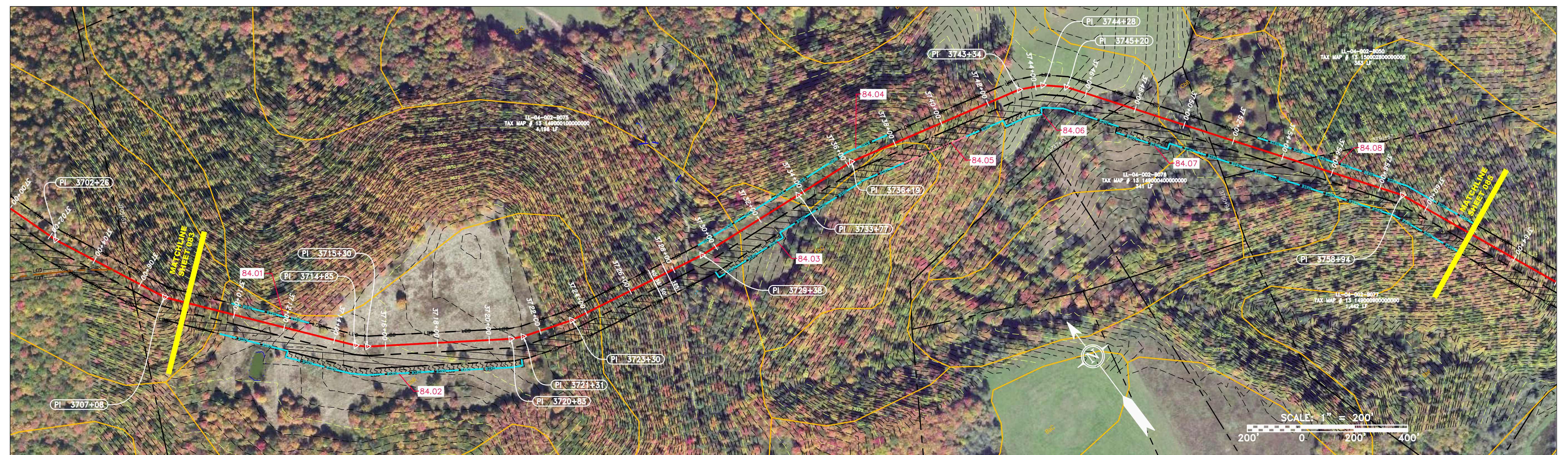
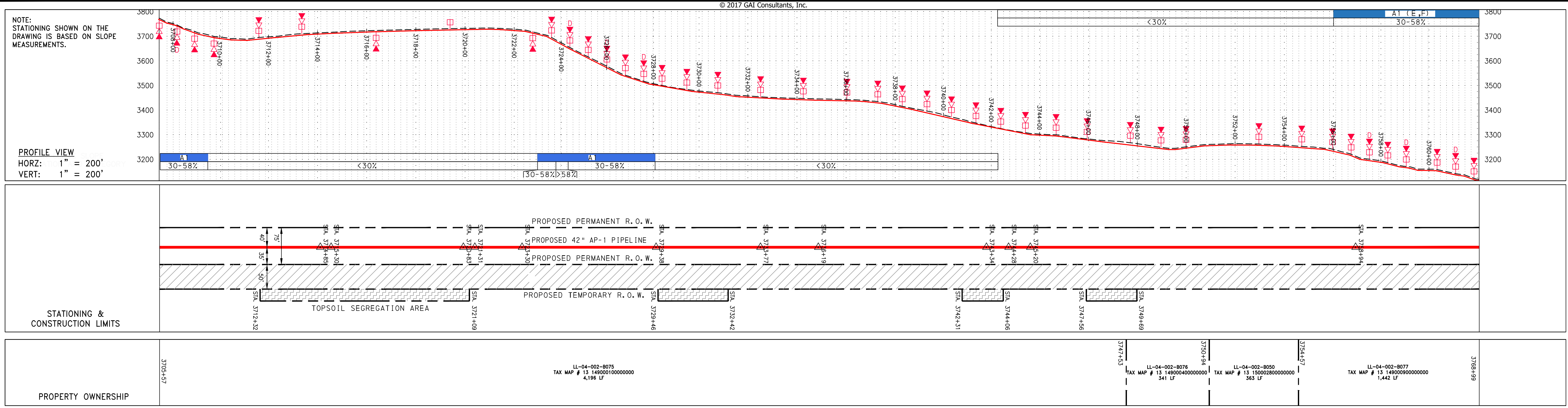


300 BUSINESS CENTER DRIVE
PITTSBURGH, PA 15205
412-788-2433

PROJECT NO./DASH NO.	140468
TASK NO. SUB TASK NO.	005
GROUP ID DRAWING NO.	D E006
006 OF 104	

6/5/2017 1:48 PM

J:\2665 -GAI\WORK ORDER 02 - SOUTHEAST PIPELINE (SECTION 1)\1 - REROUTE 1A\ALIGNMENT SHEETS\2665-02_SPREAD_1A_SHEET_84.DWG



PIPE SPECIFICATION	
3710+00	3762+00

LEGEND

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

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

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REVISIONS

NO.	DATE	BY	CHKD.	APPROV.	DESCRIPTION

SCALE: AS SHOWN
 DATE: 6/1/17
 DRAWN: RLM
 CHECKED: DLH
 APPROVED: NET

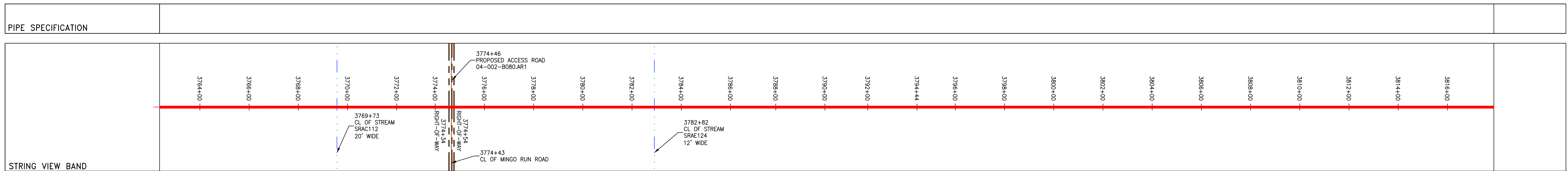
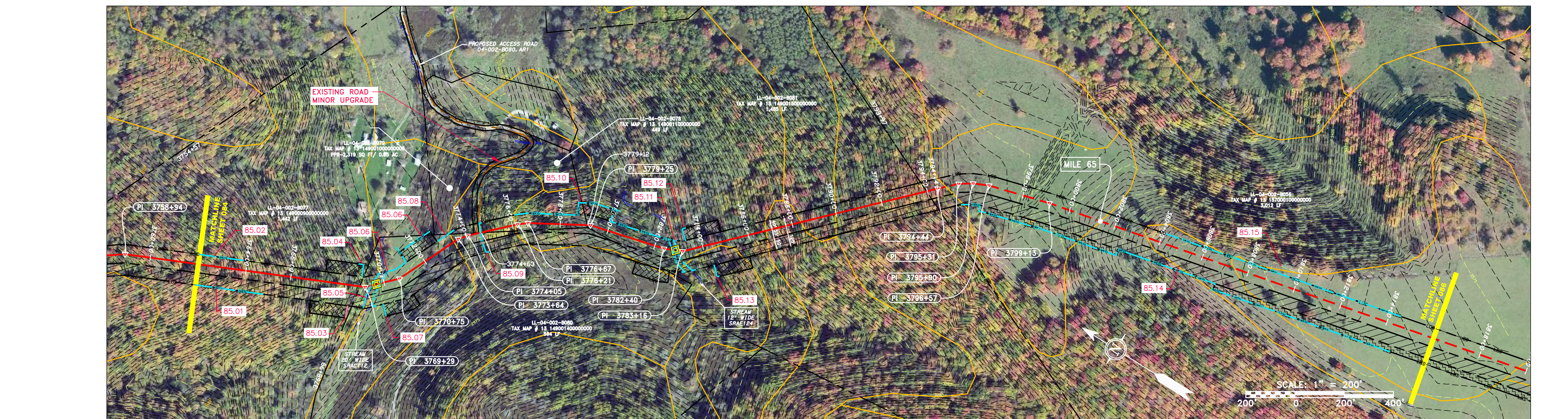
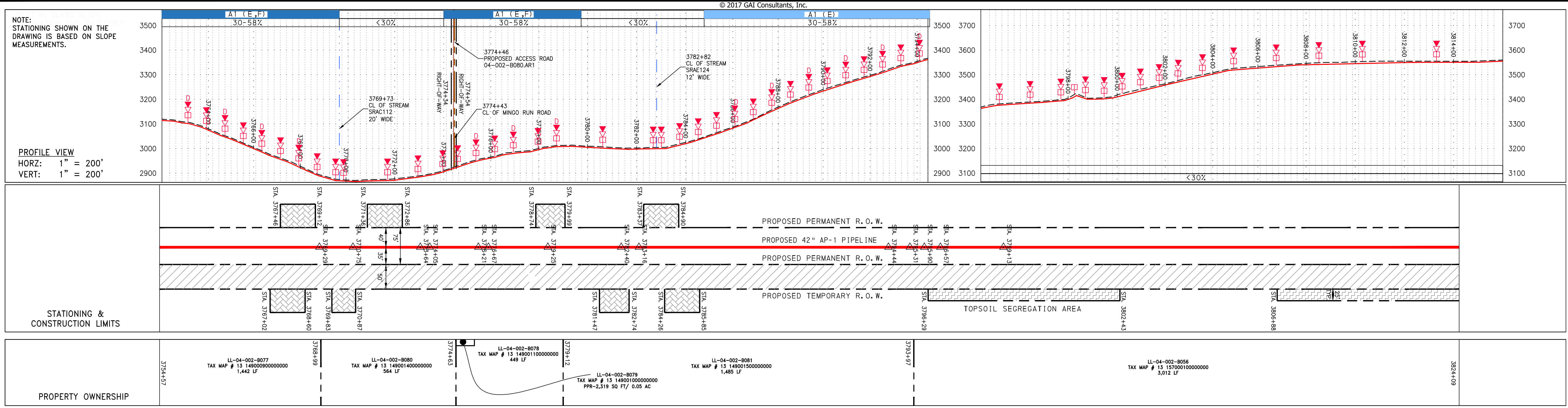
SOUTHPOINTE OFFICE
 6000 TOWN CENTER BLVD.
 CANONSBURG, PA 15317
 724-373-3545

300 BUSINESS CENTER DRIVE
 PITTSBURGH, PA 15205
 412-788-2433

PROJECT NO./DASH NO. 140468
 TASK NO. 005 SUB TASK NO. 00
 GROUP ID D DRAWING NO. E084
 084 OF 344

6/1/2017 11:08 AM

J:\2665 -GAI\WORK ORDER 02 - SOUTHEAST PIPELINE (SECTION 1)\1 - REROUTE 1A\ALIGNMENT SHEETS\2665-02_SPREAD_1A_SHEET_85.DWG



LEGEND

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

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REVISIONS

NO.	DATE	CHKD.	APPD.	DESCRIPTION

ERM

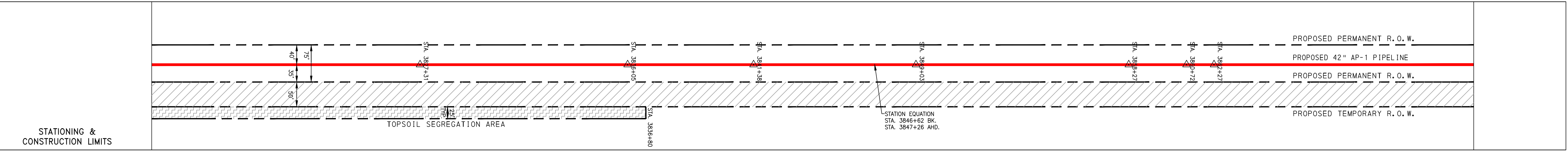
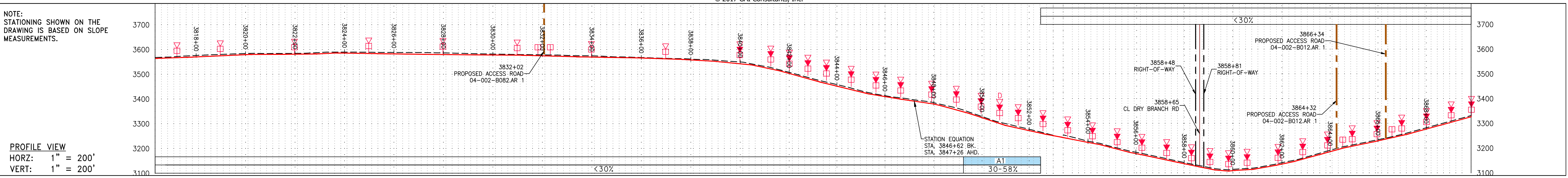
CONSTRUCTION ALIGNMENT STA. 3762+00 TO 3816+00

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

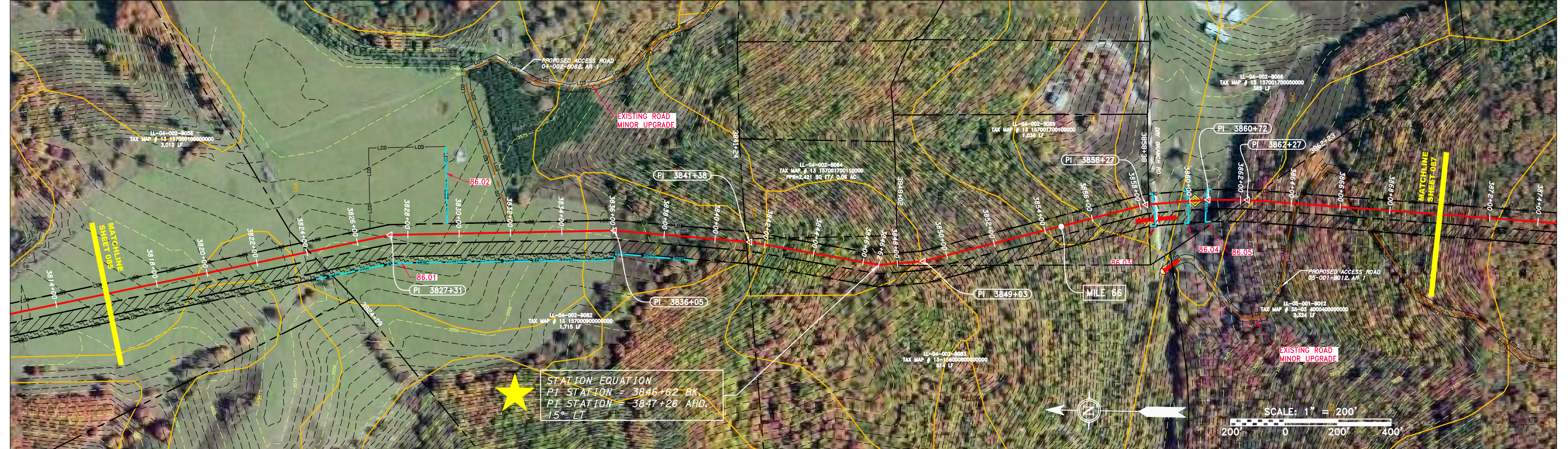
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DATE: 6/1/17
DRAWN: GOS
CHECKED: DLH
APPROVED: NET

PROJECT NO./DASH NO. 140468
TASK NO. SUB TASK NO. 005 00
GROUP ID DRAWING NO. D E085
085 OF 344

6/1/2017 10:58 AM



PROPERTY OWNERSHIP	STATIONING	TAX MAP #	AREA
3793+97	3824+09	LL-04-002-8056	3,012 LF
	3827+00	LL-04-002-8082	1,715 LF
	3832+00	LL-04-002-8084	PPR=2,421 SQ FT / 0.06 AC
	3841+24	LL-04-002-8083	614 LF
	3848+02	LL-04-002-8085	1,036 LF
	3858+38	LL-04-002-8086	385 LF
	3862+23	LL-04-002-8088	1,036 LF
	3866+34	LL-05-001-8012	3,324 LF
	3869+47		



PIPE SPECIFICATION	PIPE SIZE	DEPTH	LENGTH
42" AP-1 PIPELINE	42"	48"	504 LF



LEGEND

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

NOTES:

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REVISIONS

NO.	DATE	CHKD.	APP'D.	DESCRIPTION

ERM

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

CONSTRUCTION ALIGNMENT STA. 3816+00 TO 3870+00
 RANDOLPH COUNTY, WEST VIRGINIA

SCALE: AS SHOWN
 DATE: 6/1/17
 DRAWN: GOS
 CHECKED: DLH
 APPROVED: NET

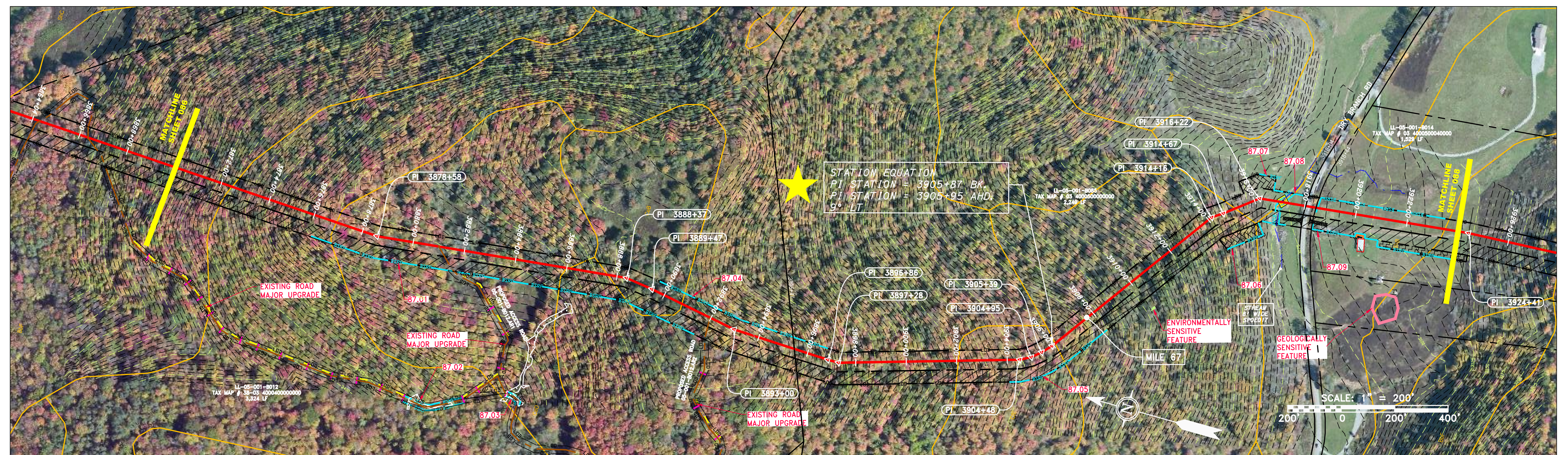
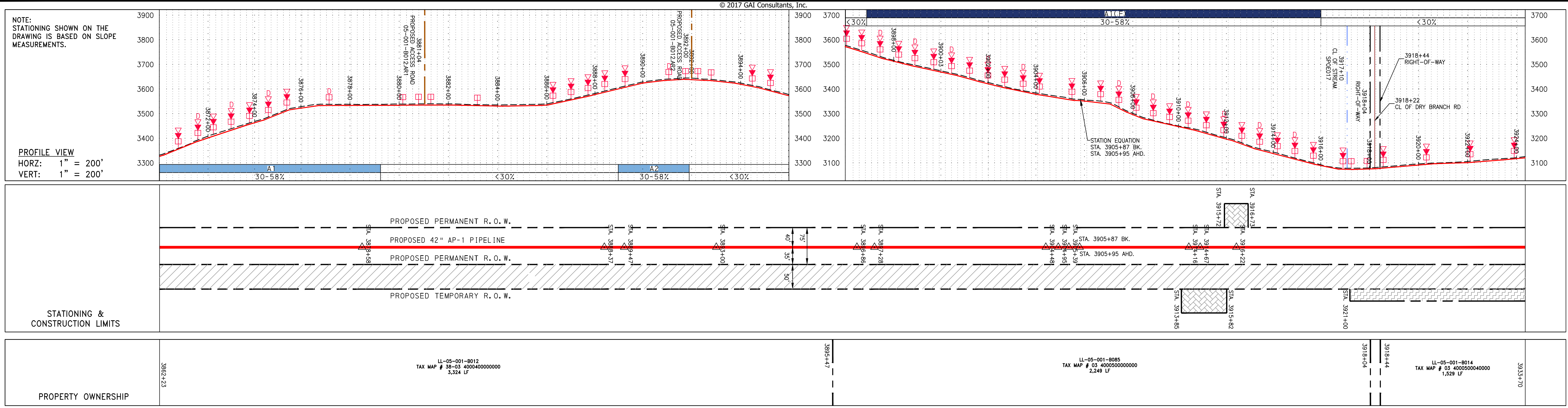
gai consultants
 SOUTHPOINTE OFFICE
 6000 TOWN CENTER BLVD.
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 724-873-3545

mbe monaloh basin engineers
 300 BUSINESS CENTER DRIVE
 PITTSBURGH, PA 15205
 412-788-2433

PROJECT NO./DASH NO. 140468
 TASK NO. SUB TASK NO. 005 00
 GROUP ID DRAWING NO. D E086
 086 OF 344

6/1/2017 10:55 AM

J:\2665-GAI\WORK ORDER 02 - SOUTHEAST PIPELINE (SECTION 1)\1 - REROUTE 1A\ALIGNMENT SHEETS\2665-02_SPREAD_1A_SHEET_87.DWG



PIPE SPECIFICATION

3872+00	3874+00	3876+00	3878+00	3880+00	3882+00	3884+00	3886+00	3888+00	3890+00	3892+00	3894+00	3896+00	3898+00	3900+00	3902+00	3904+00	3906+00	3908+00	3910+00	3912+00	3914+00	3916+00	3918+00	3920+00	3922+00	3924+00
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STRING VIEW BAND

LEGEND

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

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NO.	DATE	BY	CHKD.	APPROV.	DESCRIPTION

ERM

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

CONSTRUCTION ALIGNMENT STA. 3870+00 TO 3924+00

SCALE: AS SHOWN
 DATE: 6/1/17
 DRAWN: TJM
 CHECKED: DLH
 APPROVED: NET

gai consultants

SOUTHPOINTE OFFICE
 6000 TOWN CENTER BLVD.
 PITTSBURGH, PA 15205
 724-673-3545

mbe monaloh basin engineers

300 BUSINESS CENTER DRIVE
 PITTSBURGH, PA 15205
 412-788-2433

PROJECT NO./DASH NO.
 140468

TASK NO. SUB TASK NO.
 005 00

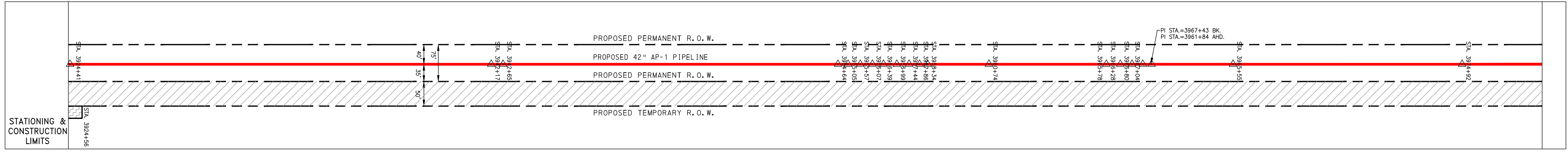
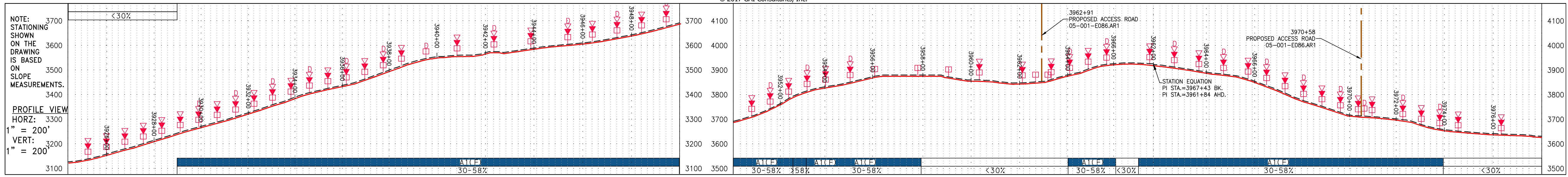
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087 OF 344

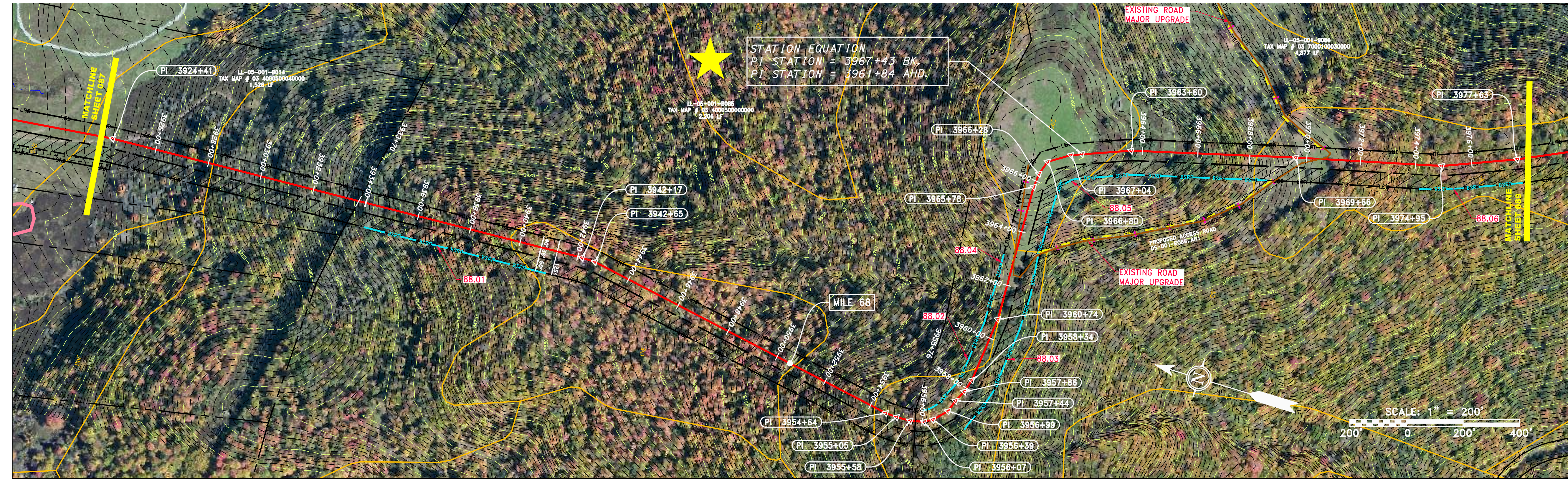
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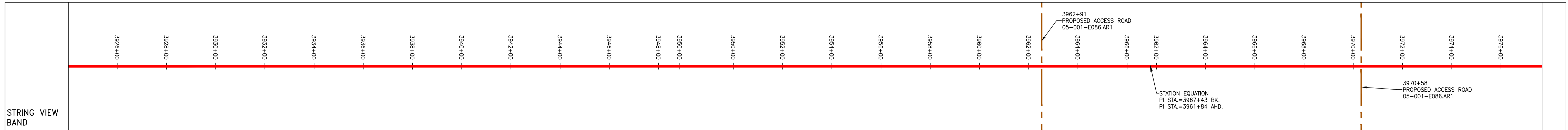
© 2017 GAI Consultants, Inc.



PROPERTY OWNERSHIP	ADDRESS	TAX MAP #	ACRES
LL-05-001-8014	3924+00	03 4000500040000	1.528 LF
LL-05-001-8085	3933+70	03 4000500000000	2.208 LF
LL-05-001-8086	3955+76	03 7000100030000	4.877 LF
LL-05-001-8086	3978+00	03 7000100030000	4.877 LF



PIPE SPECIFICATION	PIPE SIZE
42" AP-1 PIPELINE	42"



<p>LEGEND</p> <ul style="list-style-type: none"> PROPERTY LINE FENCE STREAM EXISTING GAS PIPELINE OVERHEAD UTILITY LINES ACCESS ROAD PROPOSED GAS PIPELINE STORM SEWER UNDERGROUND ELECTRIC WATER LINE SANITARY SEWER EDGE OF GRAVEL PROPOSED PERMANENT EASEMENT PROPOSED GAS PIPELINE (NO GROUND SURVEY) EXTRA WORK SPACE AREA OF NO DISTURBANCE WETLAND TOPSOIL SEGREGATION AREA PROPOSED TEMPORARY R.O.W. UTILITY POLE PERMANENT WATERBAR/SLOPE BREAKER TEMPORARY WATERBAR/SLOPE BREAKER TRENCH BREAKER/PLUG TRENCH BREAKER/PLUG BLEEDER DRAIN AND OUTLET STREAM CROSSING USFWS STREAM CROSSING WITH ENHANCED CONTROLS SEEP CONSTRUCTION ENTRANCE WITH DITCH CULVERT WATERBAR LOD BSRF SSF 111.03 CUB A1 E 30-58% LIMIT OF DISTURBANCE BELTED SILT RETENTION FENCE (BSRF) SUPER SILT FENCE COMPOST FILTER SOCK SEDIMENT BARRIER IDENTIFICATION ORANGE SAFETY FENCE ROADSIDE DITCH SOIL TYPE TYPICAL BIC SLOPE CATEGORY SLOPE INCLINATION 	<p>NOTES:</p> <ol style="list-style-type: none"> 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. SILT FENCE AND FILTER SOCK SHALL BE INSTALLED PARALLEL TO CONTOUR TO EXTENT PRACTICABLE IN ACCORDANCE WITH STANDARD DETAIL. BEST IN CLASS (BIC) STEEP SLOPE CATEGORY INFORMATION CAN BE FOUND IN THE APPENDIX OF THE STORMWATER POLLUTION PREVENTION PLAN. EROSION CONTROL MATTING SHALL BE PLACED IN AREAS OF 30% SLOPE AND GREATER, WHICH ARE INDICATED ON THE BEST IN CLASS STEEP SLOPES BAND. ACCESS ROADS HAVE BEEN GROUPED INTO FOUR CATEGORIES: 1) EXISTING ROADS NO IMPROVEMENTS, 2) EXISTING ROADS MINOR IMPROVEMENTS, 3) EXISTING ROADS MAJOR IMPROVEMENTS AND 4) NEW ROADS. APPROPRIATE EROSION AND SEDIMENT CONTROLS WILL BE PROVIDED FOR ROADS IN CATEGORIES 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.
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NO.	DATE	CHKD.	APPD.	DESCRIPTION

ERM

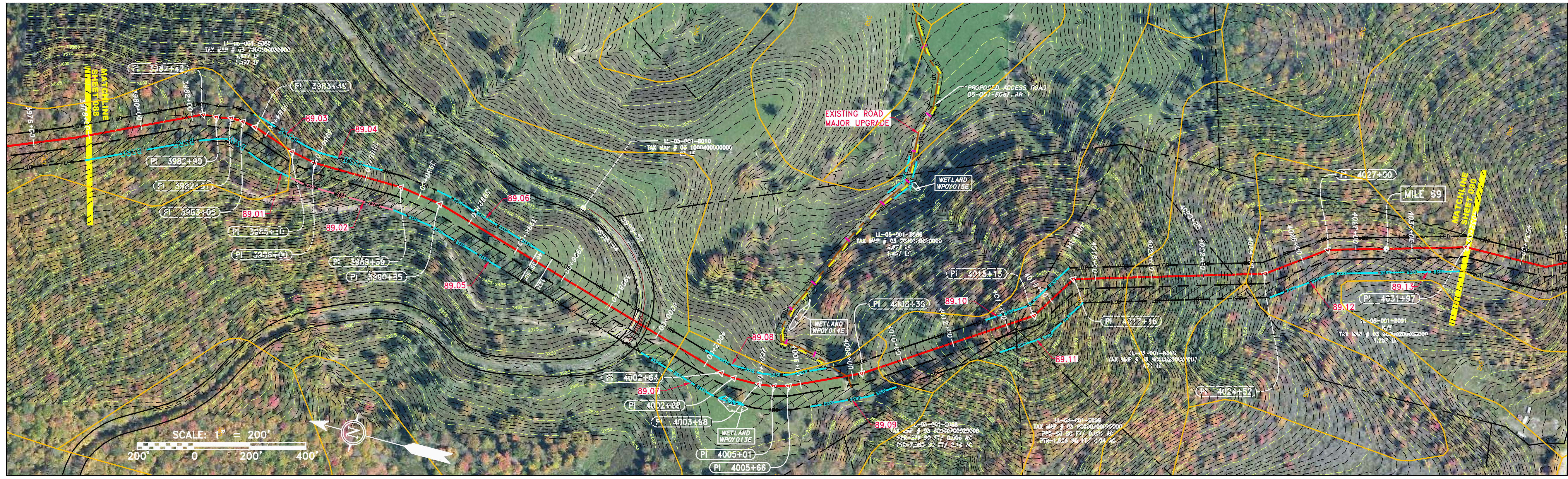
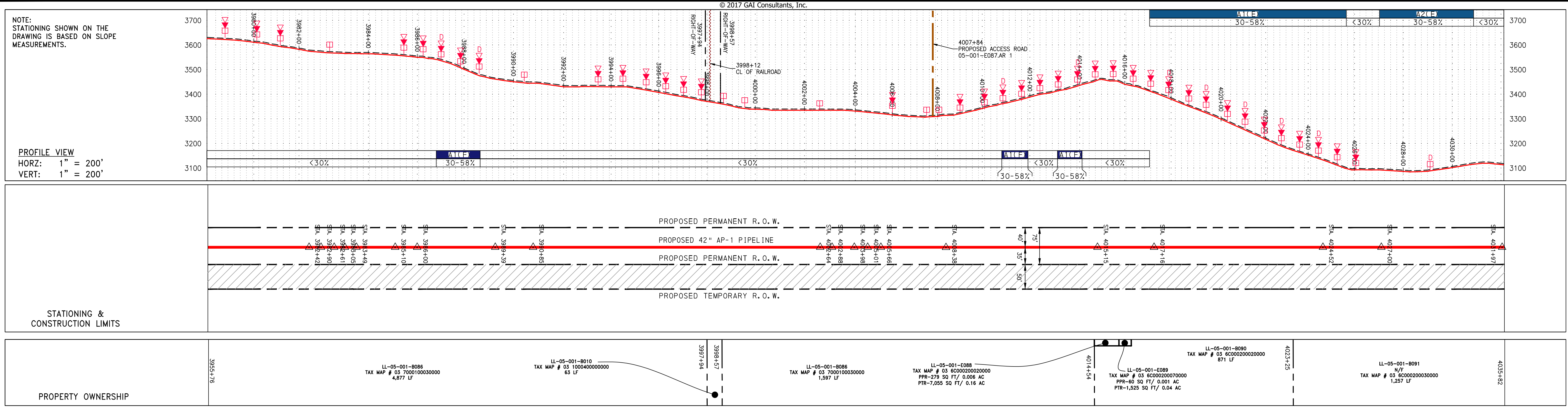
SCALE: AS SHOWN
 DATE: 6/1/17
 DRAWN: JMS
 CHECKED: DLH
 APPROVED: NET

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

300 BUSINESS CENTER DRIVE
 PITTSBURGH, PA 15205
 412-788-2433

PROJECT NO./DASH NO.	140468
TASK NO.	005
SUB TASK NO.	00
GROUP ID	D
DRAWING NO.	E088
088 OF 344	

J:\2665 -GAI\WORK ORDER 02 - SOUTHEAST PIPELINE (SECTION 1)\1 - REROUTE 1A\ALIGNMENT SHEETS\2665-02_SPREAD_1A_SHEET_89.DWG



PIPE SPECIFICATION	
3985+00	
3987+00	
3989+00	
3991+00	
3993+00	
3995+00	
3997+00	
3999+00	
4001+00	
4003+00	
4005+00	
4007+00	
4009+00	
4011+00	
4013+00	
4015+00	
4017+00	
4019+00	
4021+00	
4023+00	
4025+00	
4027+00	
4029+00	
4031+00	
4033+00	
4035+82	

STRING VIEW BAND

LEGEND

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

NOTES:

- COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY - UTM WITH NAD83 DATUM, ZONE 17, US SURVEY FOOT, CENTRAL MERIDIAN 81° W. CONTOURS AND TOPOGRAPHIC FEATURES WERE DERIVED FROM LIDAR DATA AND GPS SUB-METER GROUND SURVEY PERFORMED BY GAI CONSULTANTS, INC FROM 11-03-2014 THRU 11-07-2014.
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REVISIONS

NO.	DATE	CHKD.	APPD.	DESCRIPTION

ERM

CONSTRUCTION STA. 3978+00 TO 4032+00

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

SCALE: AS SHOWN
DATE: 6/1/17
DRAWN: TJM
CHECKED: DLH
APPROVED: NET

gai consultants

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

mbe monaloh basin engineers

300 BUSINESS CENTER DRIVE
PITTSBURGH, PA 15205
412-788-2433

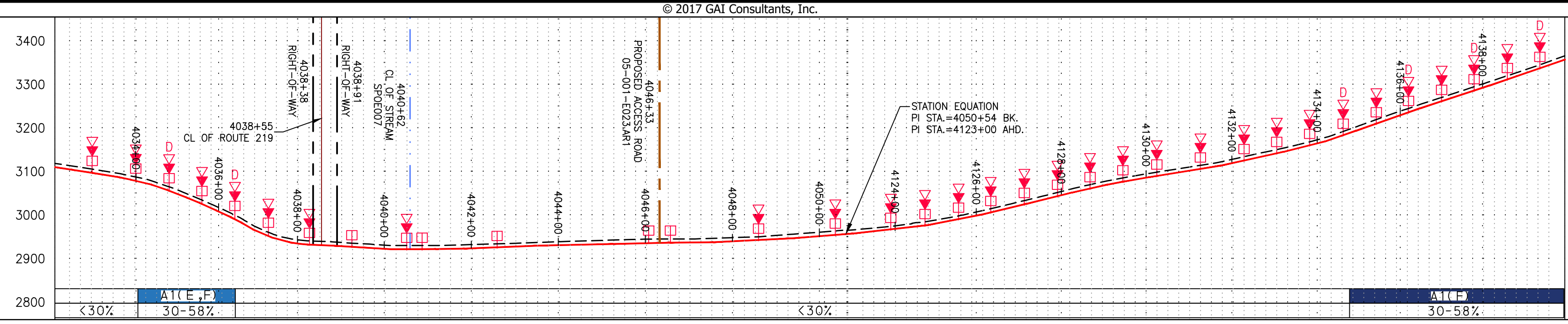
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TASK NO. SUB TASK NO. 005 00
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6/1/2017 10:34 AM

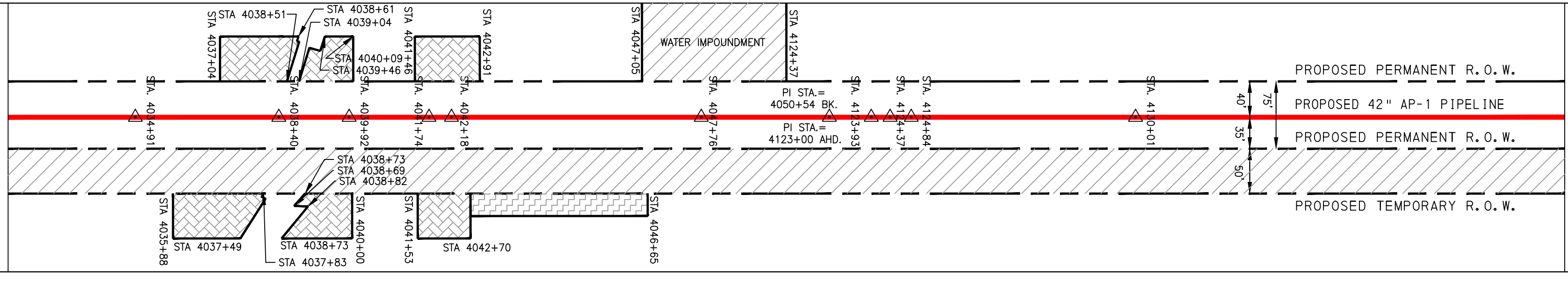
J:\2665-GAI\WORK ORDER 02 - SOUTHEAST PIPELINE (SECTION 1)\1 - REROUTE 1A\ALIGNMENT SHEETS\2665-02_SPREAD_1A_SHEET_90.DWG

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

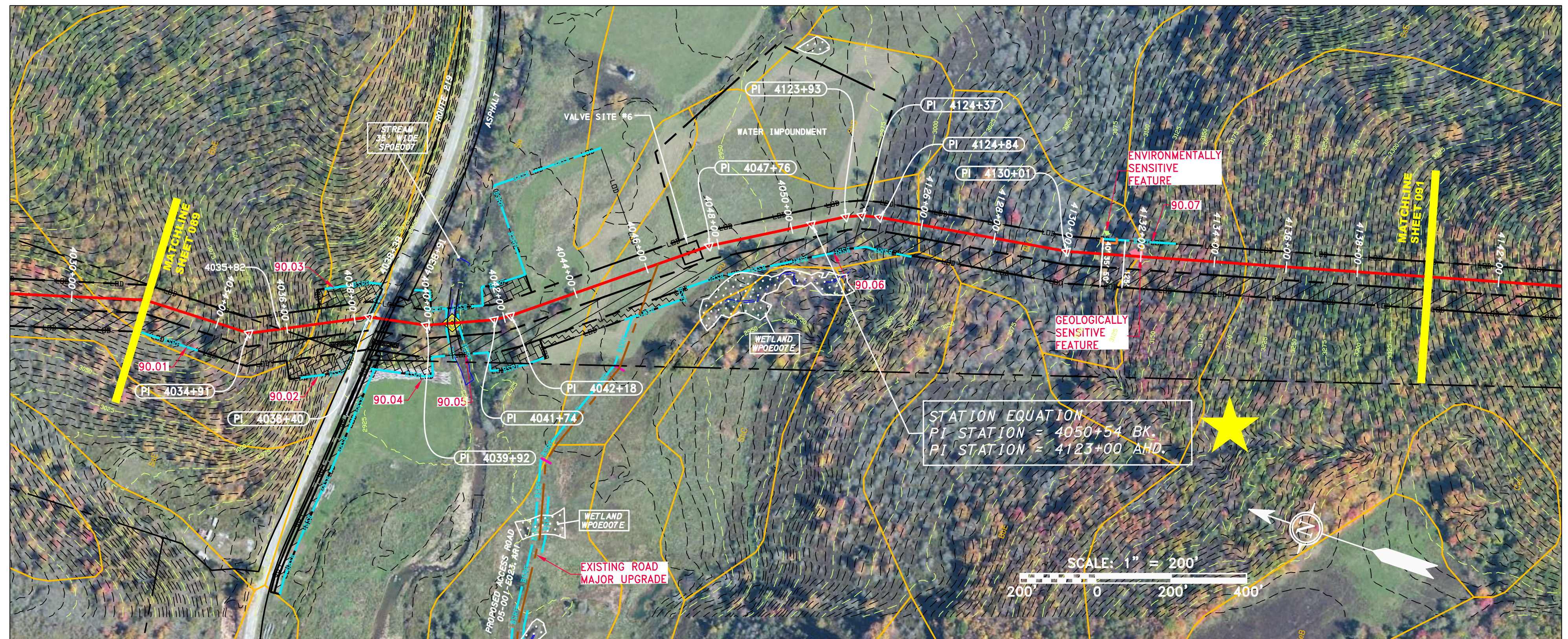
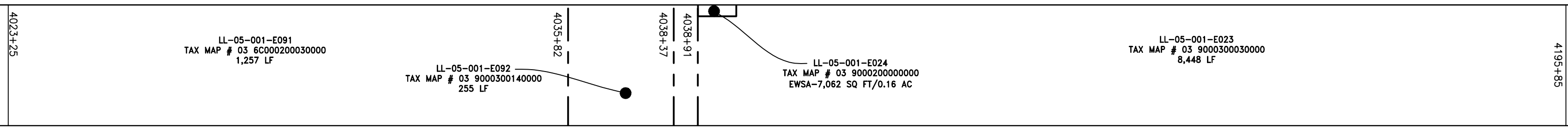
PROFILE VIEW
HORZ: 1" = 200'
VERT: 1" = 200'



STATIONING &
CONSTRUCTION LIMITS

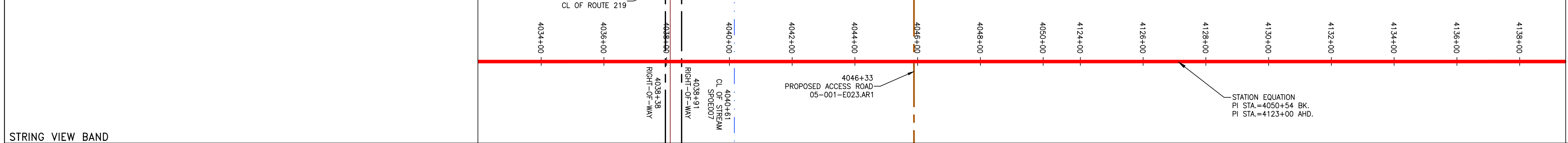


PROPERTY OWNERSHIP



PIPE SPECIFICATION

STRING VIEW BAND



<p>LEGEND</p> <p>— PROPERTY LINE</p> <p>X X FENCE</p> <p>— STREAM</p> <p>G G EXISTING GAS PIPELINE</p> <p>OH OVERHEAD UTILITY LINES</p> <p>— ACCESS ROAD</p> <p>— PROPOSED GAS PIPELINE</p> <p>— PROPOSED GAS PIPELINE (NO GROUND SURVEY)</p> <p>— STORM SEWER</p> <p>E UNDERGROUND ELECTRIC</p> <p>W WATER LINE</p> <p>SAN SANITARY SEWER</p> <p>— EDGE OF GRAVEL</p> <p>— PROPOSED PERMANENT EASEMENT</p> <p>— PROPOSED PERMANENT R.O.W.</p> <p>— PROPOSED TEMPORARY R.O.W.</p> <p>— UTILITY POLE</p> <p>EXTRA WORK SPACE</p> <p>AREA OF NO DISTURBANCE</p> <p>WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)</p> <p>TOPSOIL SEGREGATION AREA</p> <p>PROPOSED TEMPORARY R.O.W.</p> <p>UTILITY POLE</p> <p>NOTE: THE PE SEAL AND SIGNATURE APPLIES ONLY TO THE E&S CONTROL DESIGN COMPLETED BY ERM (SEE NOTE 12).</p>	<p>▲ PERMANENT WATERBAR/SLOPE BREAKER</p> <p>□ TEMPORARY WATERBAR/SLOPE BREAKER</p> <p>□ TRENCH BREAKER/PLUG</p> <p>□ TRENCH BREAKER/PLUG BLEEDER</p> <p>□ DRAIN AND OUTLET</p> <p>◇ STREAM CROSSING</p> <p>◇ USFWS STREAM CROSSING WITH ENHANCED CONTROLS</p> <p>◇ SEEP</p> <p>◇ CONSTRUCTION ENTRANCE WITH DITCH</p> <p>◇ CULVERT AS NEEDED</p> <p>◇ CULVERT WATERBAR</p> <p>— LIMIT OF DISTURBANCE</p> <p>— BELTED SILT RETENTION FENCE (BSRF)</p> <p>— SUPER SILT FENCE</p> <p>— COMPOST FILTER SOCK</p> <p>— SEDIMENT BARRIER IDENTIFICATION</p> <p>— ORANGE SAFETY FENCE</p> <p>— ROADSIDE DITCH</p> <p>— SOIL TYPE</p> <p>— TYPICAL BIC SLOPE CATEGORY SLOPE INCLINATION</p>	<p>NOTES:</p> <p>1. COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY - UTM WITH NAD83 DATUM, ZONE 17, US SURVEY FOOT, CENTRAL MERIDIAN 81° W.</p> <p>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.</p> <p>3. IMAGERY TAKEN FROM GOOGLE EARTH.</p> <p>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.</p> <p>5. STREAM AND WETLAND DATA SHOWN ON THE DRAWINGS WAS PROVIDED BY ERM.</p> <p>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.</p> <p>7. ALL STATIONING SHOWN IS SLOPE STATIONING.</p> <p>8. SILT FENCE AND FILTER SOCK SHALL BE INSTALLED PARALLEL TO CONTOUR TO EXTENT PRACTICABLE IN ACCORDANCE WITH STANDARD DETAIL.</p> <p>9. BEST IN CLASS (BIC) STEEP SLOPE CATEGORY INFORMATION CAN BE FOUND IN THE APPENDIX OF THE STORMWATER POLLUTION PREVENTION PLAN.</p> <p>10. EROSION CONTROL MATTING SHALL BE PLACED IN AREAS OF 30% SLOPE AND GREATER, WHICH ARE INDICATED ON THE BEST IN CLASS STEEP SLOPES BAND.</p> <p>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.</p> <p>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.</p>
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NO.	DATE	BY	CHKD.	APPROV.	DESCRIPTION

CONSTRUCTION ALIGNMENT STA. 4032+00 TO 4140+00
POCAHONTAS COUNTY, WEST VIRGINIA

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

SCALE: AS SHOWN
DATE: 6/1/17
DRAWN: GOS
CHECKED: DLH
APPROVED: NET

gai consultants

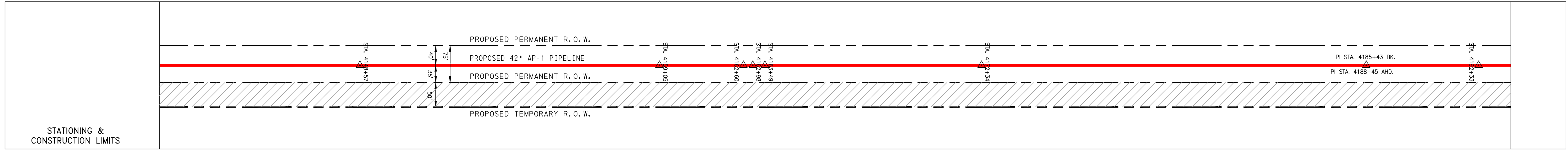
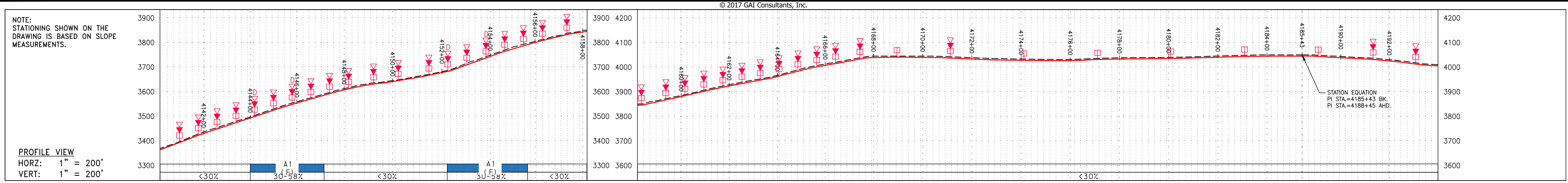
SOUTHPOINTE OFFICE
6000 TOWN CENTER BLVD.
CANONSBURG, PA 15317
724-673-3545

mbe
monahon basin
engineers

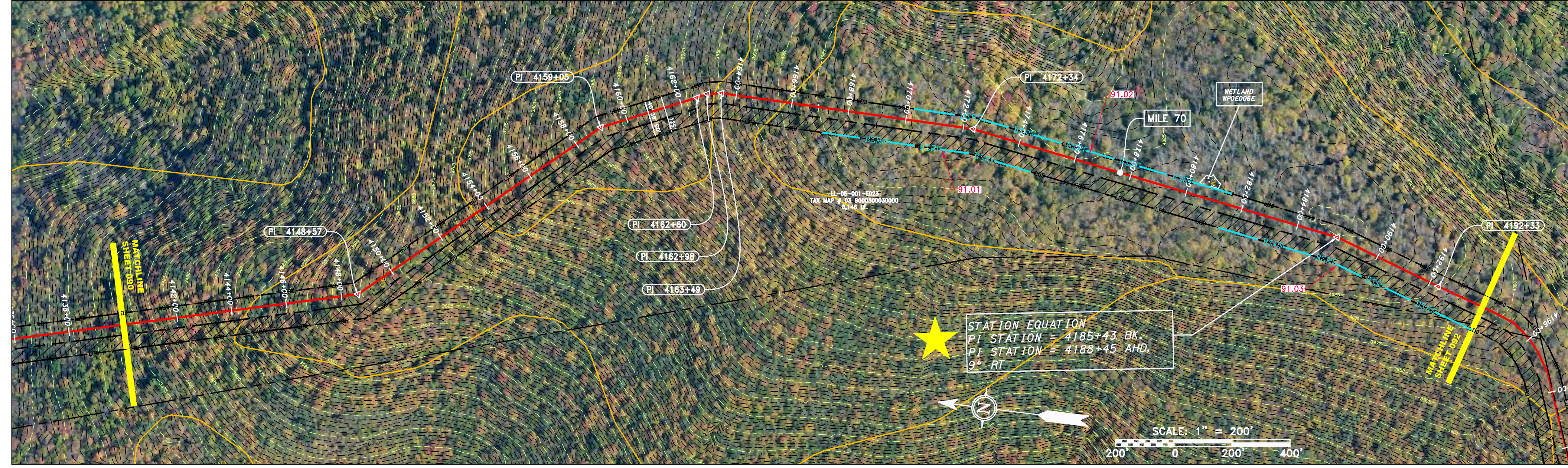
300 BUSINESS CENTER DRIVE
PITTSBURGH, PA 15205
412-788-2433

PROJECT NO./DASH NO.	140468	
TASK NO.	SUB TASK NO.	005 00
GROUP ID	DRAWING NO.	D E090
090	OF 344	

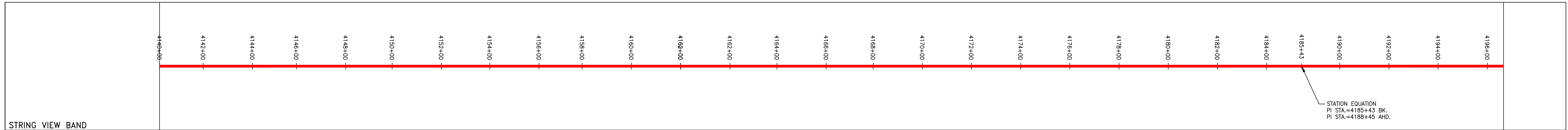
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PROPERTY OWNERSHIP
 4135+85
 4194+91
 LL-05-001-E023
 TAX MAP # 03 8000300030000
 8,146 LF



PIPE SPECIFICATION	
4140+00	4194+00



LEGEND

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

NOTES:

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REVISIONS

NO.	DATE	BY	CHKD.	APPROV.	DESCRIPTION

ERM

091 - CONSTRUCTION ALIGNMENT STA. 4140+00 TO 4194+00
 POCAHONTAS COUNTY, WEST VIRGINIA

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

SCALE: AS SHOWN
 DATE: 5/31/17
 DRAWN: GOS
 CHECKED: DLH
 APPROVED: NET

gai consultants

SOUTHPOINTE OFFICE
 6000 TOWN CENTER BLVD.
 CANONSBURG, PA 15317
 724-273-3545

mbe
 monaloh basin engineers

300 BUSINESS CENTER DRIVE
 PITTSBURGH, PA 15205
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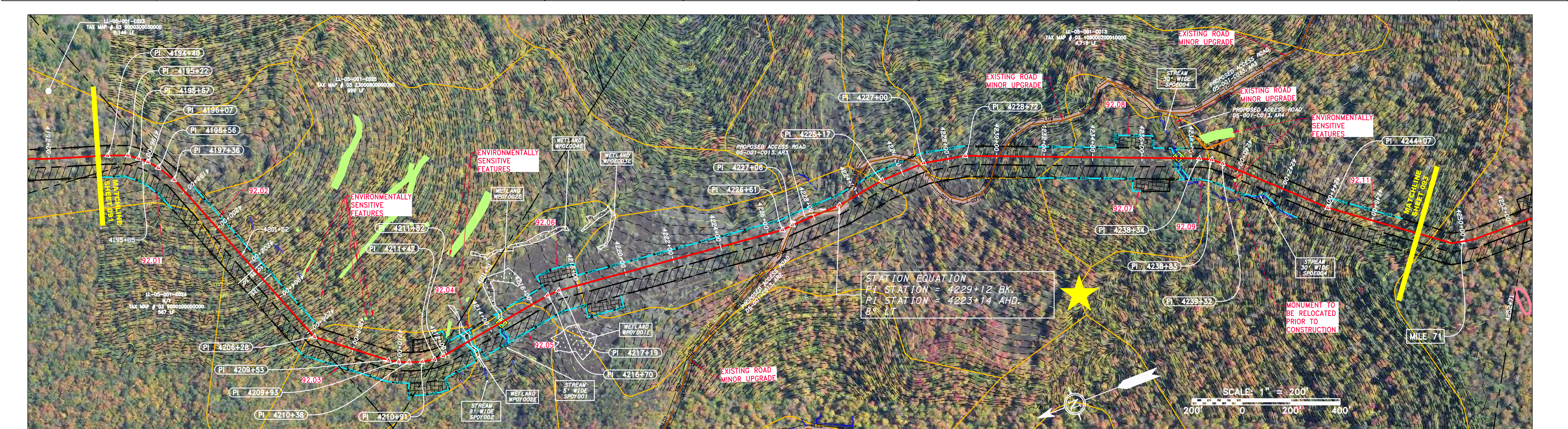
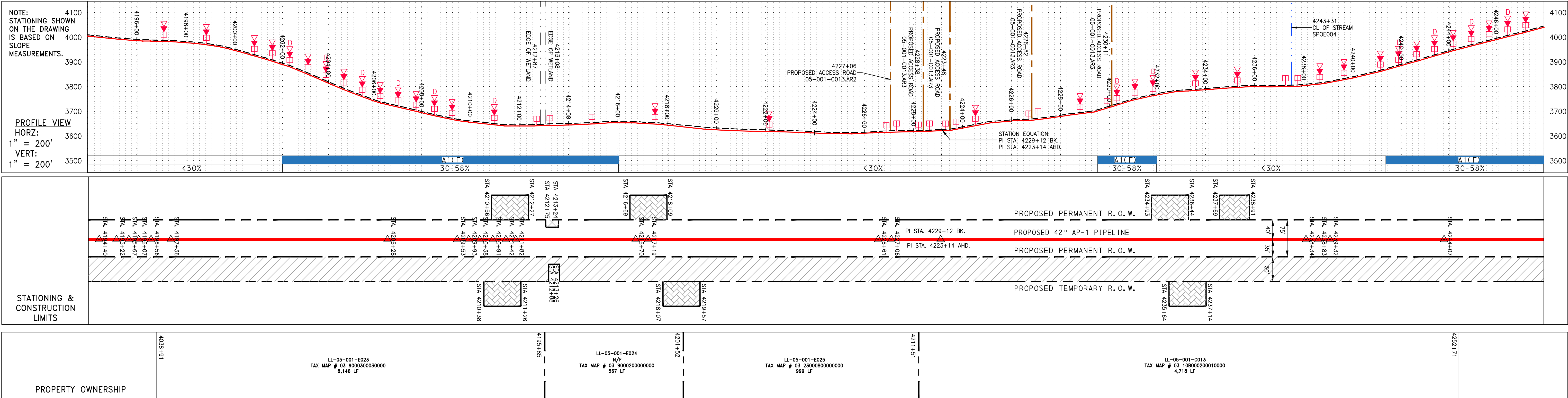
PROJECT NO./DASH NO.
 140468

TASK NO.	SUB TASK NO.
005	00

GROUP ID: D DRAWING NO.: E091

091 OF 344

5/31/2017 4:05 PM



PIPE SPECIFICATION

STRING VIEW BAND

LEGEND

—	PROPERTY LINE	—	STORM SEWER	▨	EXTRA WORK SPACE	▨	TOPSOIL SEGREGATION AREA	▨	PROPOSED TEMPORARY R.O.W.	▨	UTILITY POLE
-X-X-	FENCE	-E-	UNDERGROUND ELECTRIC	▨	AREA OF NO DISTURBANCE	▨	PROPOSED TEMPORARY R.O.W.	▨	UTILITY POLE	▨	UTILITY POLE
-G-G-	EXISTING GAS PIPELINE	-W-	WATER LINE	▨	WETLAND	▨	PROPOSED TEMPORARY R.O.W.	▨	UTILITY POLE	▨	UTILITY POLE
-OH-	OVERHEAD UTILITY LINES	-SAN-	SANITARY SEWER	▨	WETLAND	▨	PROPOSED TEMPORARY R.O.W.	▨	UTILITY POLE	▨	UTILITY POLE
-A1E-	ACCESS ROAD	-	EDGE OF GRAVEL	▨	WETLAND	▨	PROPOSED TEMPORARY R.O.W.	▨	UTILITY POLE	▨	UTILITY POLE
-GAS-	PROPOSED GAS PIPELINE (NO GROUND SURVEY)	-	PROPOSED PERMANENT EASEMENT	▨	WETLAND	▨	PROPOSED TEMPORARY R.O.W.	▨	UTILITY POLE	▨	UTILITY POLE
-		-	PROPOSED PERMANENT PIPELINE	▨	WETLAND	▨	PROPOSED TEMPORARY R.O.W.	▨	UTILITY POLE	▨	UTILITY POLE

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REVISIONS

NO.	DATE	CHKD.	APPROV.	DESCRIPTION

092 - CONSTRUCTION ALIGNMENT STA. 4194+00 TO 4248+00
POCAHONTAS COUNTY, WEST VIRGINIA

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

SCALE: AS SHOWN
DATE: 5/31/17
DRAWN: GOS
CHECKED: DLH
APPROVED: NET

gai consultants

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

mbe
monaloh basin
engineers

300 BUSINESS CENTER DRIVE
PITTSBURGH, PA 15205
412-788-2433

PROJECT NO./DASH NO.
140468

TASK NO.	SUB TASK NO.
005	00

GROUP ID
D

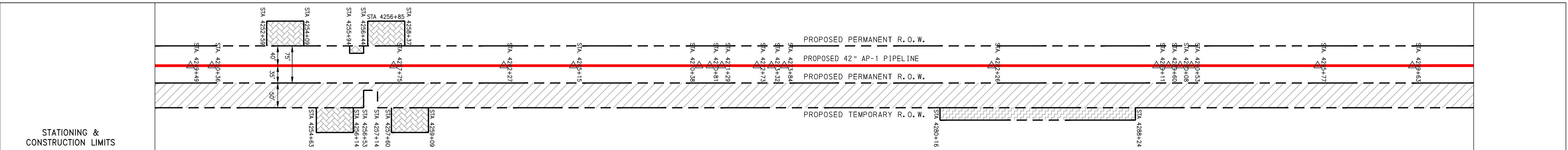
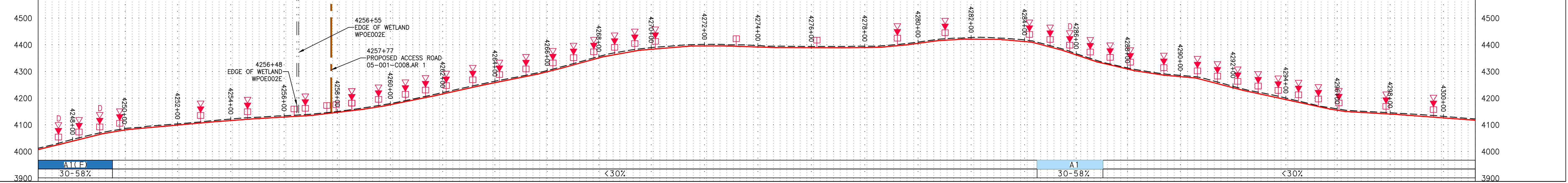
DRAWING NO.
E092

092 OF 344

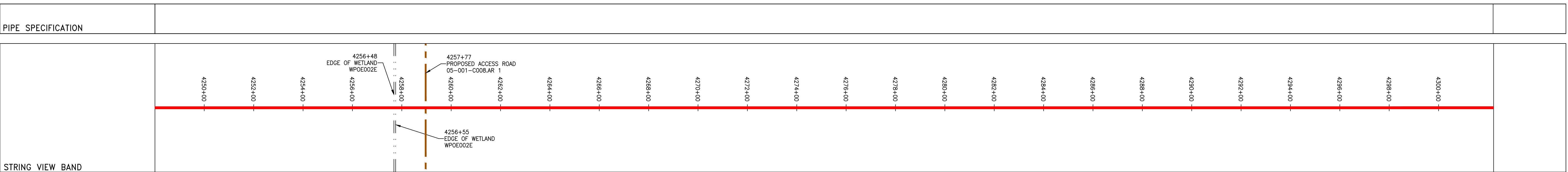
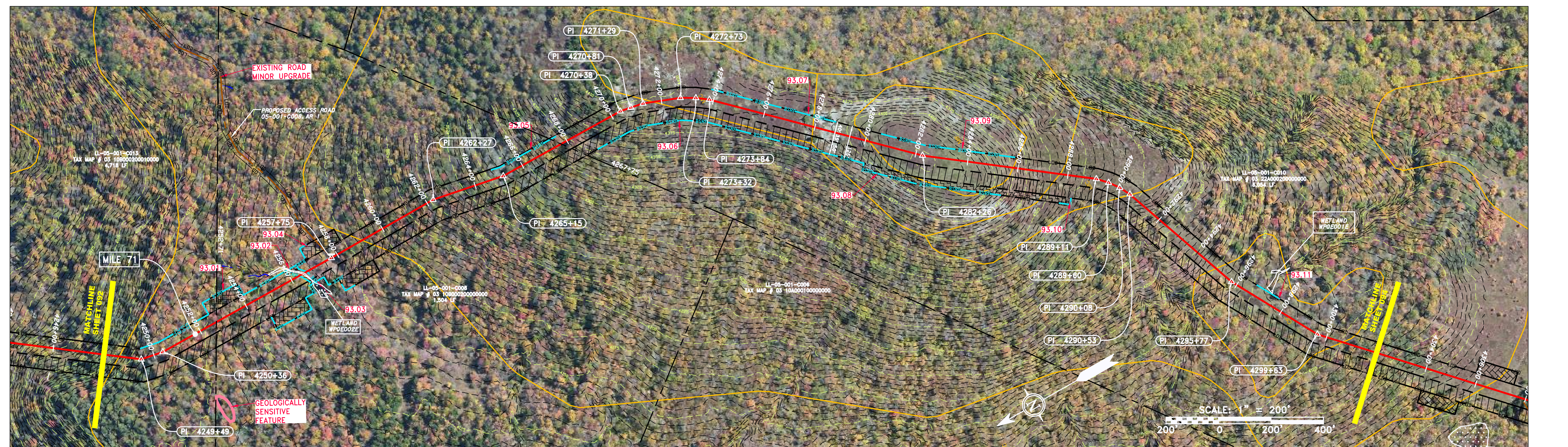
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NOTE: STATIONING SHOWN ON THE DRAWING IS BASED ON SLOPE MEASUREMENTS.

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



PROPERTY OWNERSHIP table with columns for stationing (4211+51 to 4328+29) and tax map information (LL-05-001-C013, LL-05-001-C008, LL-05-001-C010).



LEGEND and NOTES section. Includes symbols for property lines, fences, streams, wetlands, and various engineering features. Contains 12 numbered notes regarding mapping, property lines, and construction details.

Professional Engineer seal for James A. Hammer, State of West Virginia, License No. 12195. Includes the ERM logo.

Project title block: 093 - CONSTRUCTION ALIGNMENT STA. 4248+00 TO 4302+00. 42" AP-1 PIPELINE. ATLANTIC COAST PIPELINE, LLC. Includes address and contact information.

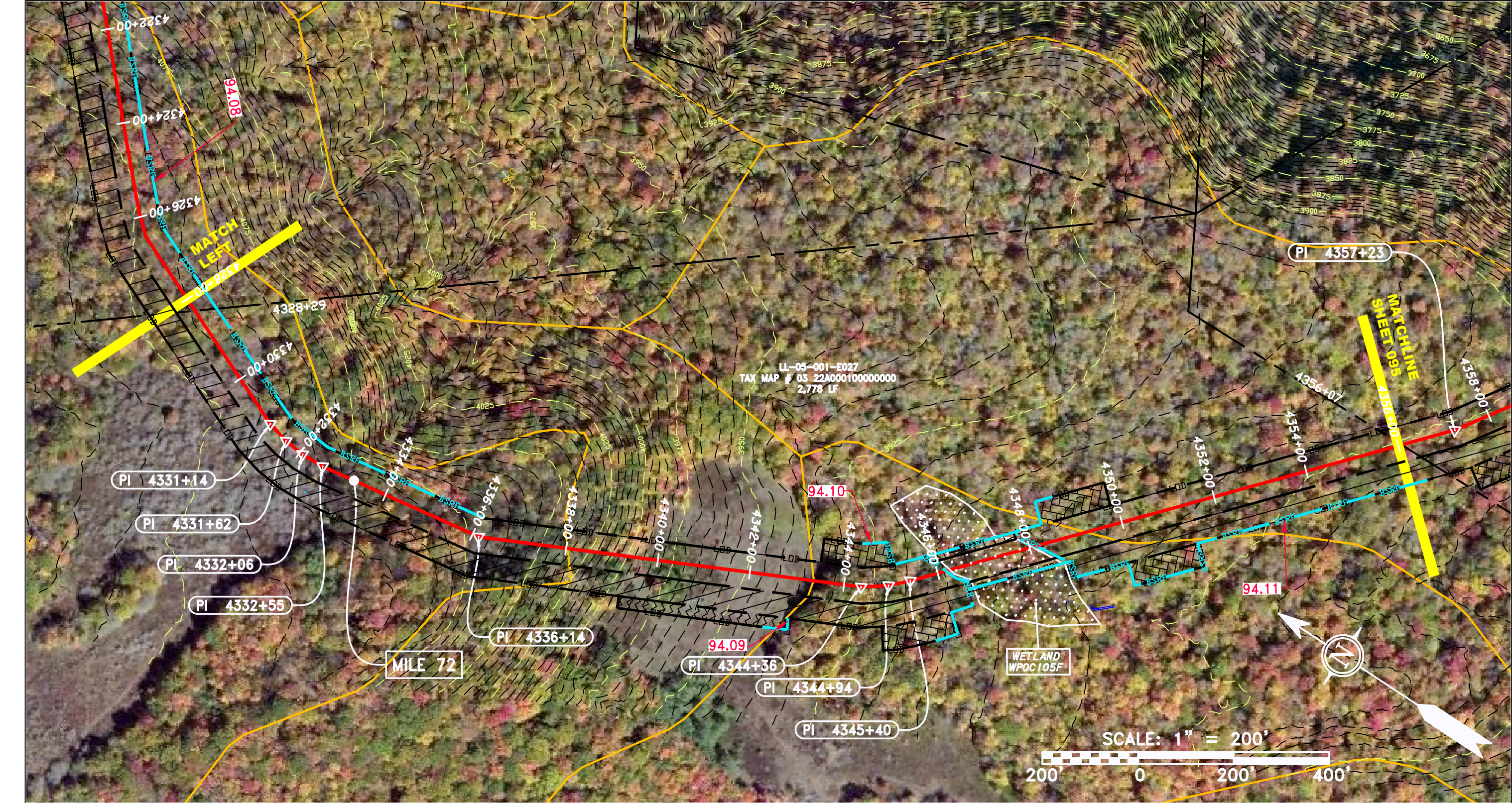
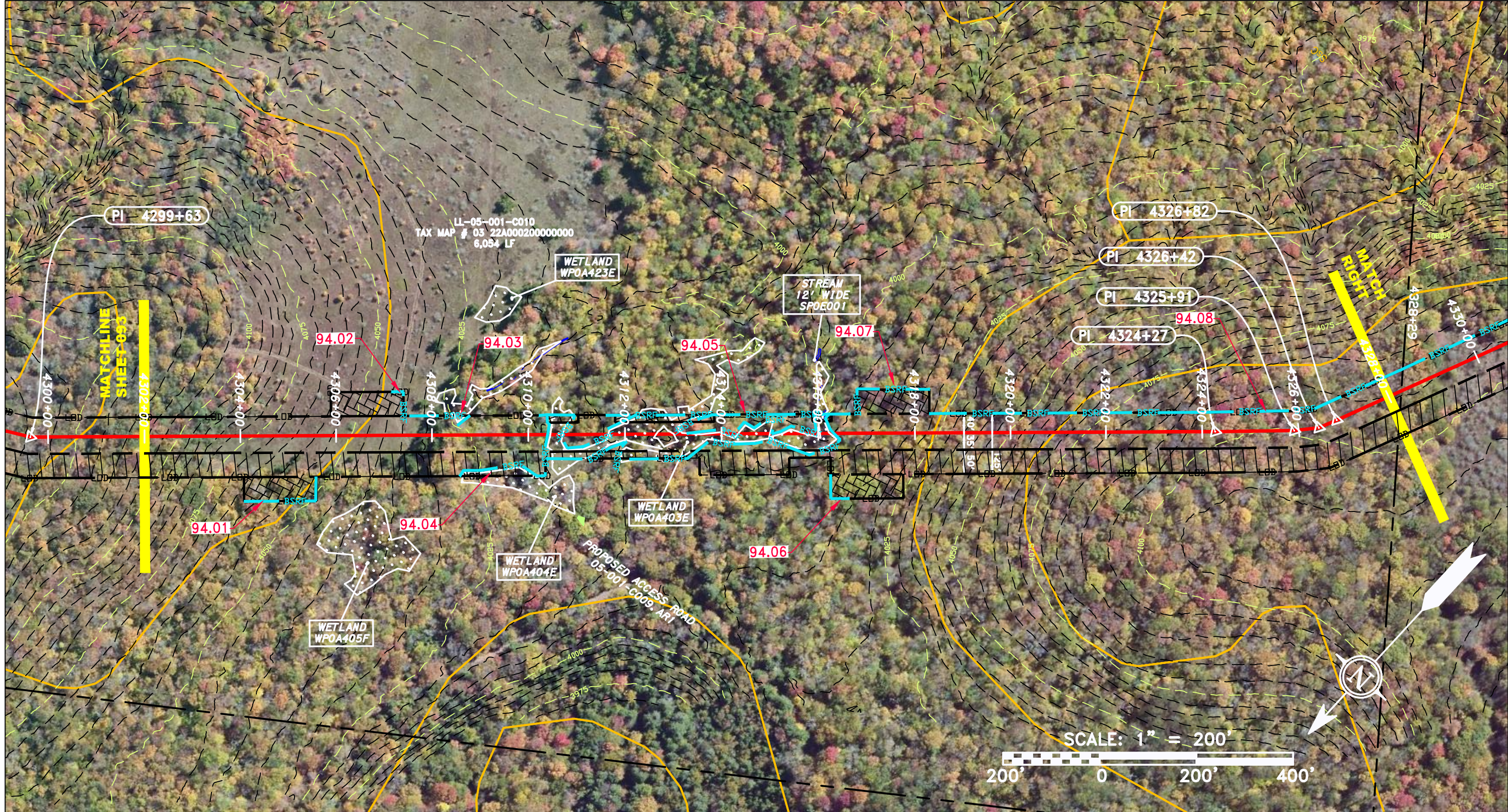
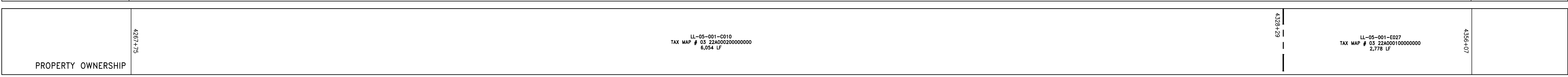
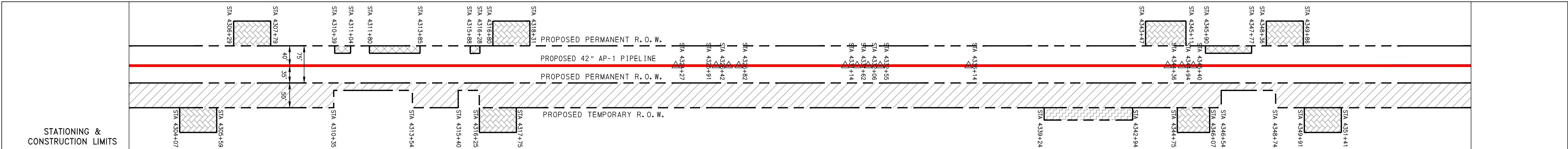
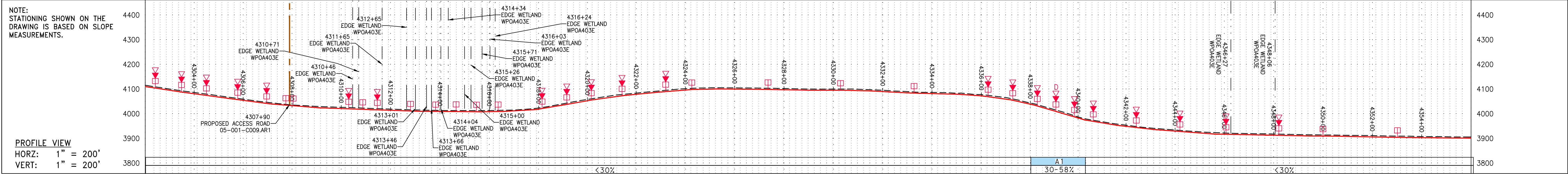
Scale: AS SHOWN. Date: 5/31/17. Drawn: TJM. Checked: DLH. Approved: NET.

gai consultants logo and address: 6000 TOWN CENTER BLVD., CANONSBURG, PA 15317.

mbe monaloh basin engineers logo and address: 300 BUSINESS CENTER DRIVE, PITTSBURGH, PA 15205.

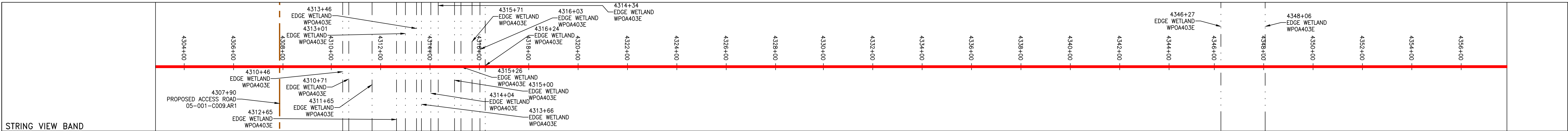
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J:\2665 -GAI\WORK ORDER 02 - SOUTHEAST PIPELINE (SECTION 1)\1 - REROUTE 1A\ALIGNMENT SHEETS\2665-02_SPREAD_1A_SHEET_93.DWG



PIPE SPECIFICATION

PIPE TYPE	AP-1 PIPELINE
DIAMETER	42 INCH
WALL THICKNESS	AS PER MANUFACTURER'S SPECIFICATIONS
COATING	AS PER MANUFACTURER'S SPECIFICATIONS
INSTALLATION	AS PER MANUFACTURER'S SPECIFICATIONS



LEGEND

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

NOTES:

- COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY - UTM WITH NAD83 DATUM, ZONE 17, US SURVEY FOOT, CENTRAL MERIDIAN 81° W. CONTOURS AND TOPOGRAPHIC FEATURES WERE DERIVED FROM LIDAR DATA AND GPS SUB-METER GROUND SURVEY PERFORMED BY GAI CONSULTANTS, INC FROM 11-03-2014 THRU 11-07-2014. IMAGERY TAKEN FROM GOOGLE EARTH.
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REVISIONS

NO.	DATE	BY	CHKD.	APPROV.	DESCRIPTION

094 - CONSTRUCTION ALIGNMENT STA. 4302+00 TO 4356+00
 ATLANTIC COAST PIPELINE, LLC
 C/O DOMINION TRANSMISSION, INC.
 925 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330

SCALE: AS SHOWN
 DATE: 5/31/17
 DRAWN: RLM
 CHECKED: DLH
 APPROVED: NET

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

PROJECT NO./DASH NO.
 140468

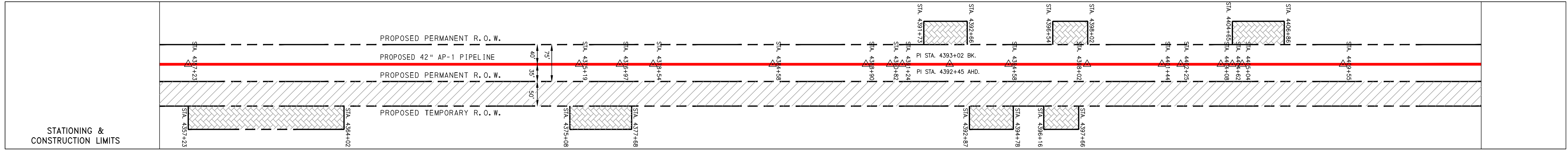
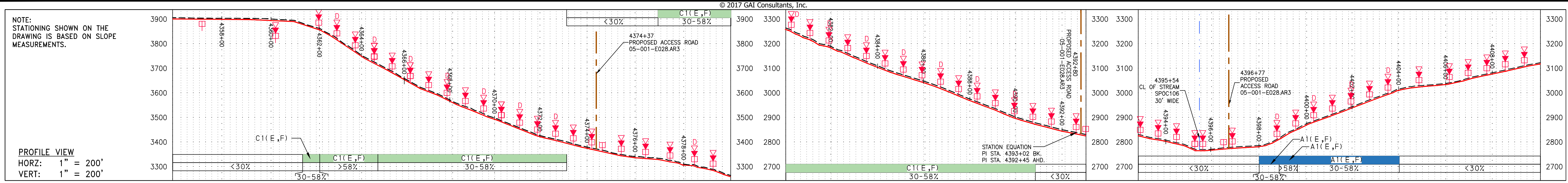
TASK NO.	SUB TASK NO.
005	00

GROUP ID: D
 DRAWING NO.: E094

094 OF 344

J:\2665 -GAI\WORK ORDER 02 - SOUTHEAST PIPELINE (SECTION 1)\1 - REROUTE 1A\ALIGNMENT SHEETS\2665-02_SPREAD_1A_SHEET_94.DWG

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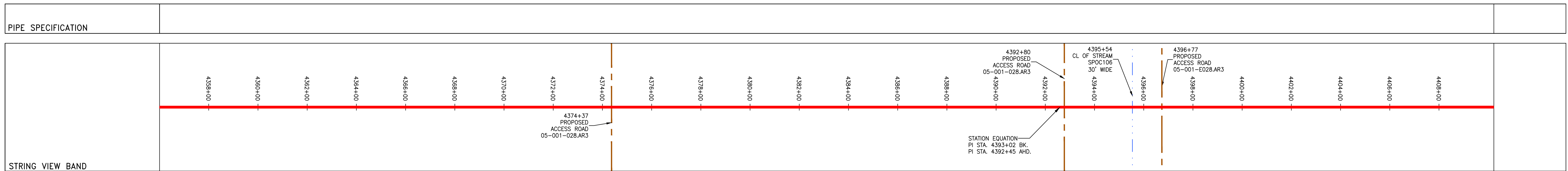
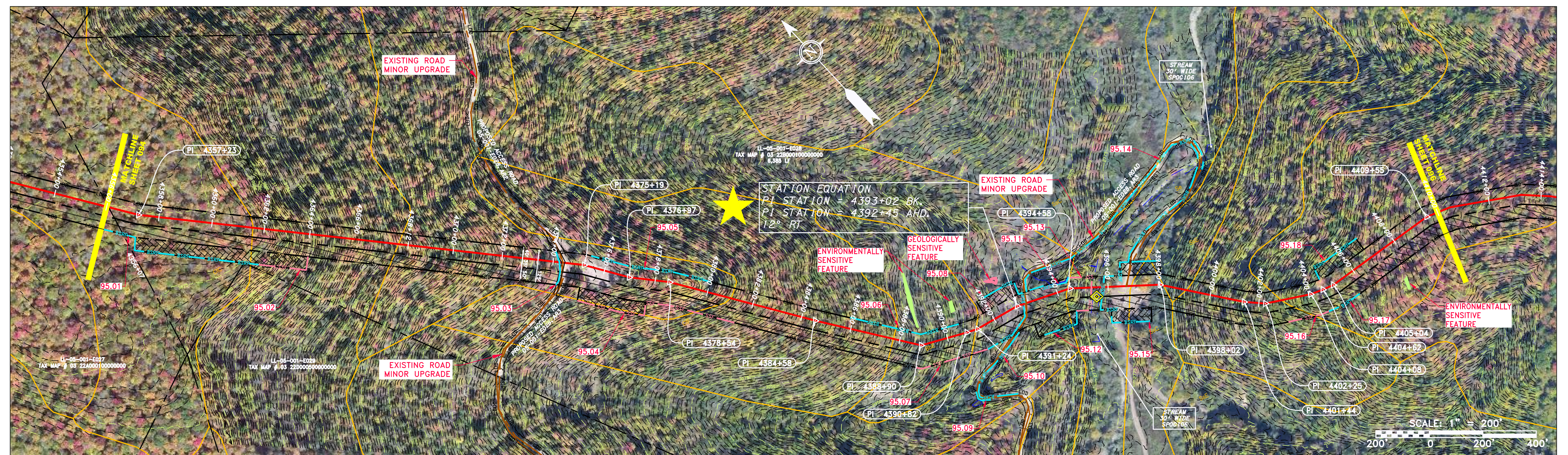


PROPERTY OWNERSHIP

LL-05-001-E028
TAX MAP # 03 220000100000000
6,385 LF

4355+07

4419+35



LEGEND

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

NOTES:

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NO.	DATE	CHKD.	APPD.	DESCRIPTION

CONSTRUCTION ALIGNMENT STA. 4356+00 TO 4410+00
POCAHONTAS COUNTY, WEST VIRGINIA

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

SCALE: AS SHOWN
DATE: 5/31/17
DRAWN: RDC
CHECKED: DLH
APPROVED: NET

gai consultants

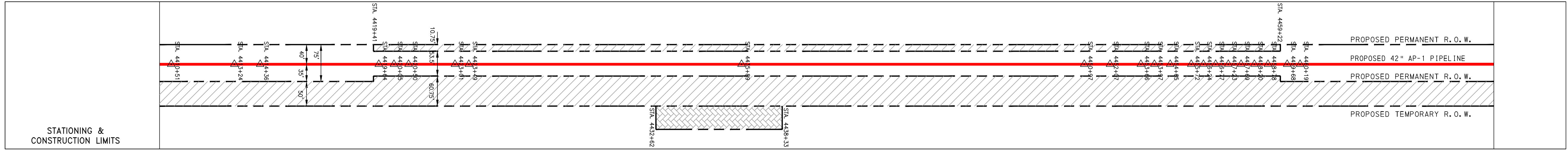
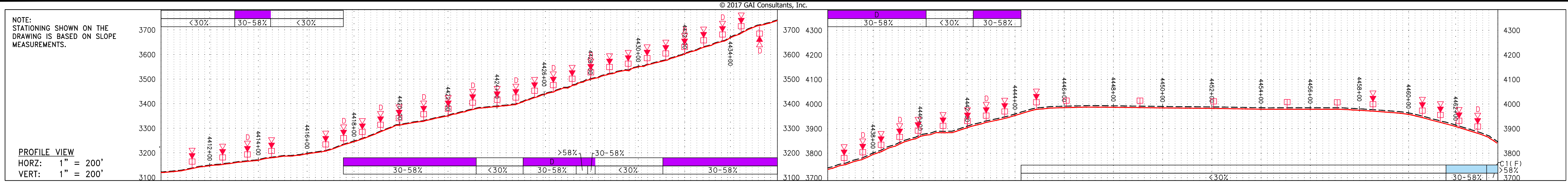
SOUTHPOINTE OFFICE
6000 TOWN CENTER BLVD.
CANONSBURG, PA 15317
724-873-3545

mbe
monaloh basin
engineers

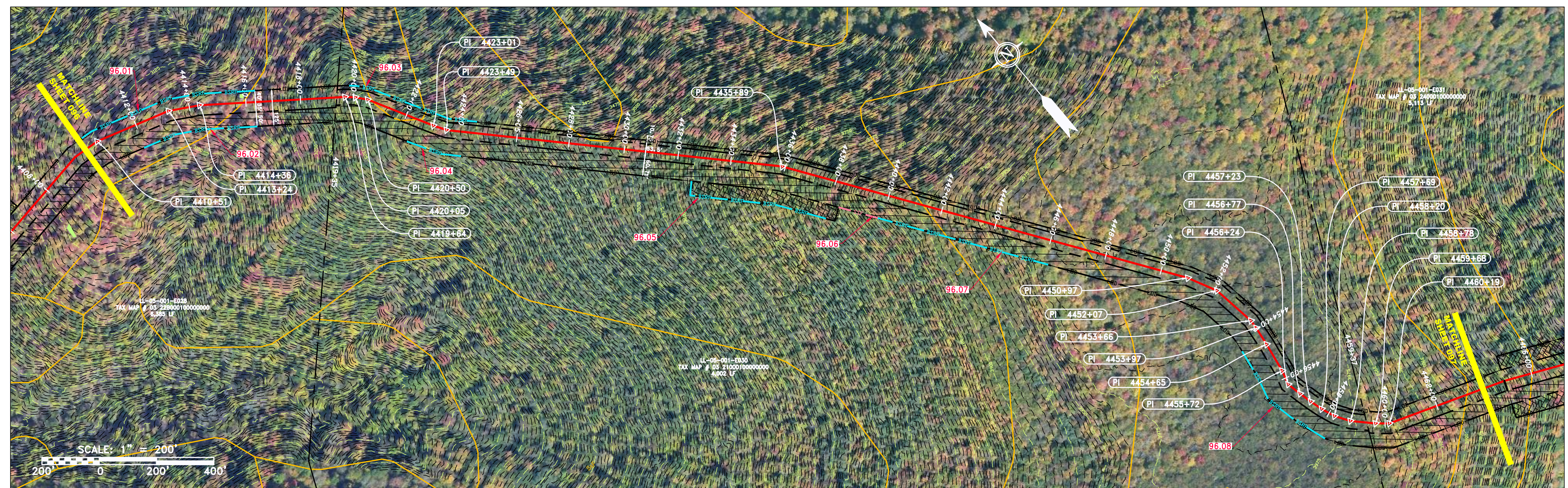
300 BUSINESS CENTER DRIVE
PITTSBURGH, PA 15205
412-788-2433

PROJECT NO./DASH NO.	140468	
TASK NO.	SUB TASK NO.	005 00
GROUP ID	DRAWING NO.	D E095
095	OF	344

J:\2665 -GAI\WORK ORDER 02 - SOUTHEAST PIPELINE (SECTION 1)\1 - REROUTE 1A\ALIGNMENT SHEETS\2665-02_SPREAD_1A_SHEET_96.DWG



Stationing	Property Ownership
4356+07	LL-05-001-E028 TAX MAP # 03 22800100000000 6,385 LF
4419+35	
4459+37	LL-05-001-E030 TAX MAP # 03 21000100000000 4,002 LF
4510+50	LL-05-001-E031 TAX MAP # 03 24000100000000 5,113 LF



Stationing	String View Band
4412+00	
4414+00	
4416+00	
4418+00	
4420+00	
4422+00	
4424+00	
4426+00	
4428+00	
4430+00	
4432+00	
4434+00	
4436+00	
4438+00	
4440+00	
4442+00	
4444+00	
4446+00	
4448+00	
4450+00	
4452+00	
4454+00	
4456+00	
4458+00	
4460+00	
4462+00	

LEGEND

— X — X — FENCE	— E — UNDERGROUND ELECTRIC	— W — WATER LINE	— SAN — SANITARY SEWER	— OH — OVERHEAD UTILITY LINES	— ACCESS ROAD	— PROPOSED PERMANENT EASEMENT	— PROPOSED GAS PIPELINE (NO GROUND SURVEY)	— STORM SEWER	— 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	— TRENCH BREAKER/PLUG BLEEDER DRAIN AND OUTLET	— STREAM CROSSING	— USFWS STREAM CROSSING WITH ENHANCED CONTROLS	— SEEP	— CONSTRUCTION ENTRANCE WITH DITCH CULVERT AS NEEDED	— CULVERT WATERBAR	— LOD	— BSRF	— SSF	— 111.03	— 111.03	— CUB	— A1 LE	— 30-58%	— LIMIT OF DISTURBANCE	— BELTED SILT RETENTION FENCE (BSRF)	— SUPER SILT FENCE	— COMPOST FILTER SOCK	— SEDIMENT BARRIER	— ORANGE SAFETY FENCE	— ROADSIDE DITCH	— SOIL TYPE	— TYPICAL BIC SLOPE CATEGORY SLOPE INCLINATION
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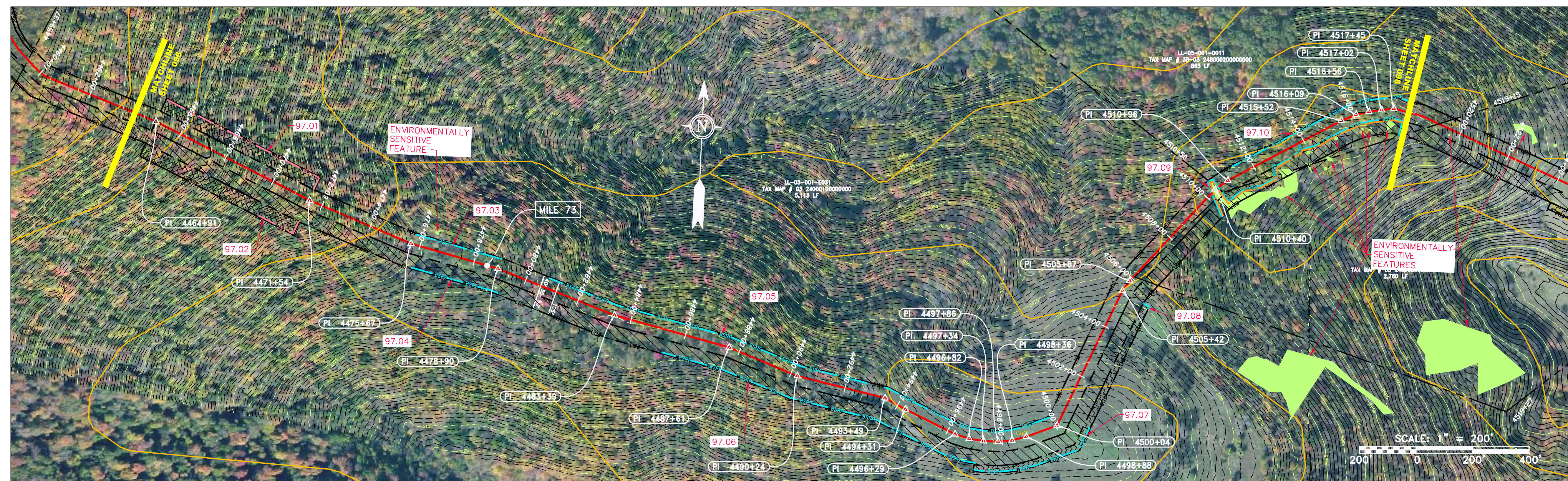
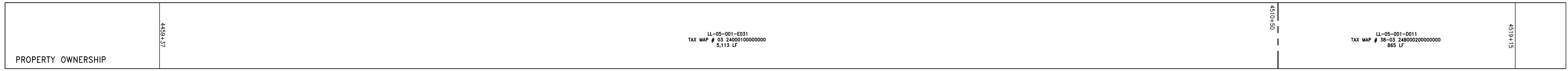
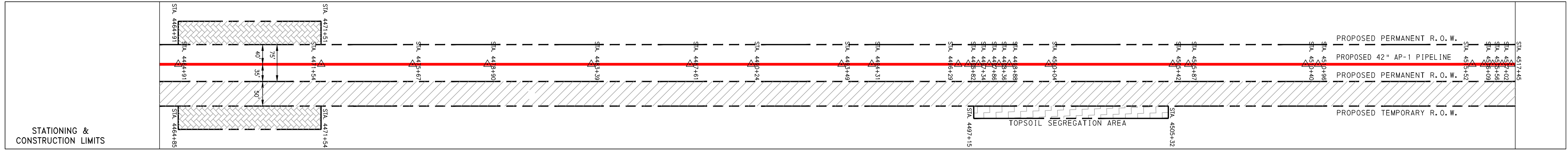
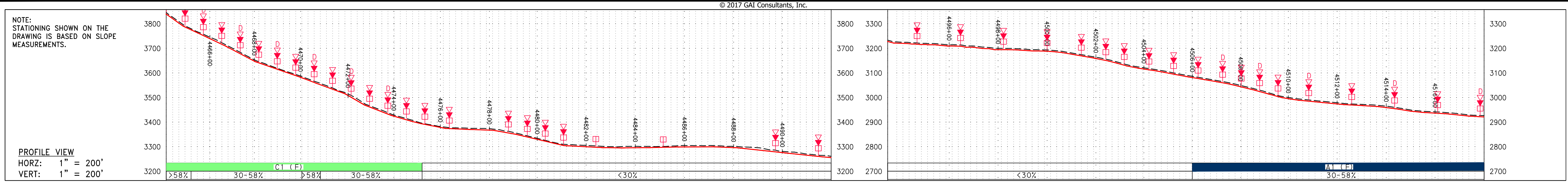
NO.	DATE	CHKD.	APPD.	DESCRIPTION

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 DATE: 5/31/17
 DRAWN: RLM
 CHECKED: DLH
 APPROVED: NET

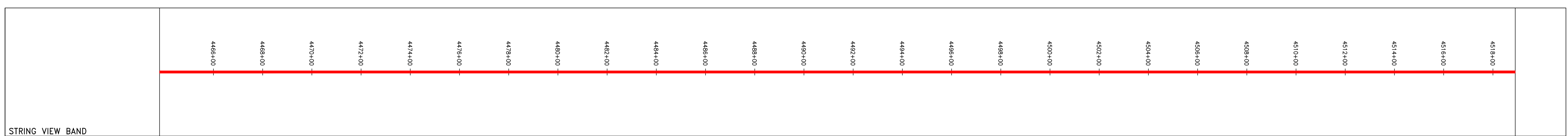
SOUTHPOINTE OFFICE
 6000 TOWN CENTER BLVD.
 CANONSBURG, PA 15317
 724-873-3545

PROJECT NO./DASH NO. 140468	
TASK NO. 005	SUB TASK NO. 00
GROUP ID D	DRAWING NO. E096
096	OF 344

J:\2665 -GAI\WORK ORDER 02 - SOUTHEAST PIPELINE (SECTION 1)\1 - REROUTE 1A\ALIGNMENT SHEETS\2665-02_SPREAD_1A_SHEET_97.DWG



PIPE SPECIFICATION



LEGEND

—	PROPERTY LINE	—	STORM SEWER	▨	EXTRA WORK SPACE	▨	TOPSOIL SEGREGATION AREA	▽	PERMANENT WATERBAR/SLOPE BREAKER	—	LIMIT OF DISTURBANCE
-X-X-	FENCE	—E—	UNDERGROUND ELECTRIC	▨	AREA OF NO DISTURBANCE	▨	PROPOSED TEMPORARY R.O.W.	▨	TEMPORARY WATERBAR/SLOPE BREAKER	—	BELTSILT RETENTION FENCE (BSRF)
—G—	STREAM	—W—	WATER LINE	▨	WETLAND	▨	UTILITY POLE	▨	TRENCH BREAKER/PLUG	—	SSF
—G—	EXISTING GAS PIPELINE	—S—	SANITARY SEWER	▨	NOTE: THE PE SEAL AND SIGNATURE APPLIES ONLY TO THE E&S CONTROL DESIGN COMPLETED BY ERM (SEE NOTE 12).	▨	UTILITY POLE	▨	TRENCH BREAKER/PLUG BLEEDER DRAIN AND OUTLET	—	COMPOST FILTER SOCK
—OH—	OVERHEAD UTILITY LINES	—	EDGE OF GRAVEL	▨		▨		▨	ORANGE SAFETY FENCE	—	SEDIMENT BARRIER IDENTIFICATION
—	ACCESS ROAD	—	PROPOSED PERMANENT EASEMENT	▨		▨		▨	ROADSIDE DITCH	—	111.03
—	PROPOSED GAS PIPELINE	—	PROPOSED GAS PIPELINE (NO GROUND SURVEY)	▨		▨		▨	SOIL TYPE	—	CUB
				▨		▨		▨	A1 (E)	—	30-58%
				▨		▨		▨	SOIL TYPE	—	TYPICAL BIC SLOPE CATEGORY SLOPE INCLINATION

NOTES:

- COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY - UTM WITH NAD83 DATUM, ZONE 17, US SURVEY FOOT, CENTRAL MERIDIAN 81° W.
- CONTOURS AND TOPOGRAPHIC FEATURES WERE DERIVED FROM LIDAR DATA AND GPS SUB-METER GROUND SURVEY PERFORMED BY GAI CONSULTANTS, INC FROM 11-03-2014 THRU 11-07-2014.
- IMAGERY TAKEN FROM GOOGLE EARTH.
- THE PROPERTY LINES SHOWN ARE BASED ON GIS & TAX ASSESSMENT RECORDS (PROVIDED BY OTHERS). GAI CONSULTANTS MAKE NO GUARANTEE EITHER EXPRESSED OR IMPLIED AS TO THE ACCURACY OF THE RECORDS AS SHOWN ON THESE DRAWINGS.
- STREAM AND WETLAND DATA SHOWN ON THE DRAWINGS WAS PROVIDED BY ERM.
- EROSION AND SEDIMENTATION CONTROL ELEMENTS MAY BE SHOWN OUTSIDE OF THE WORK AREAS FOR CLARITY ONLY. ACTUAL INSTALLATION SHALL BE WITHIN THE WORK AREAS.
- ALL STATIONING SHOWN IS SLOPE STATIONING.
- SILT FENCE AND FILTER SOCK SHALL BE INSTALLED PARALLEL TO CONTOUR TO EXTENT PRACTICABLE IN ACCORDANCE WITH STANDARD DETAIL.
- BEST IN CLASS (BIC) STEEP SLOPE CATEGORY INFORMATION CAN BE FOUND IN THE APPENDIX OF THE STORMWATER POLLUTION PREVENTION PLAN.
- EROSION CONTROL MATTING SHALL BE PLACED IN AREAS OF 30% SLOPE AND GREATER, WHICH ARE INDICATED ON THE BEST IN CLASS STEEP SLOPES BAND.
- ACCESS ROADS HAVE BEEN GROUPED INTO FOUR CATEGORIES - 1) EXISTING ROADS NO IMPROVEMENTS, 2) EXISTING ROADS MINOR IMPROVEMENTS, 3) EXISTING ROADS MAJOR IMPROVEMENTS AND 4) NEW ROADS. APPROPRIATE EROSION AND SEDIMENT CONTROLS WILL BE PROVIDED FOR ROADS IN CATEGORIES 3 AND 4. ROADS IN CATEGORIES 1 AND 2 HAVE ADEQUATE EXISTING DRAINAGE; DRAINAGE FEATURES WILL BE PROVIDED FOR ROADS IN CATEGORIES 3 AND 4.
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REVISIONS		DESCRIPTION
NO.	DATE	CHKD. APPVD.

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

CONSTRUCTION ALIGNMENT STA. 4464+00 TO 4518+00
 POCAHONTAS COUNTY, WEST VIRGINIA

SCALE: AS SHOWN
 DATE: 5/31/17
 DRAWN: CLM
 CHECKED: DLH
 APPROVED: NET

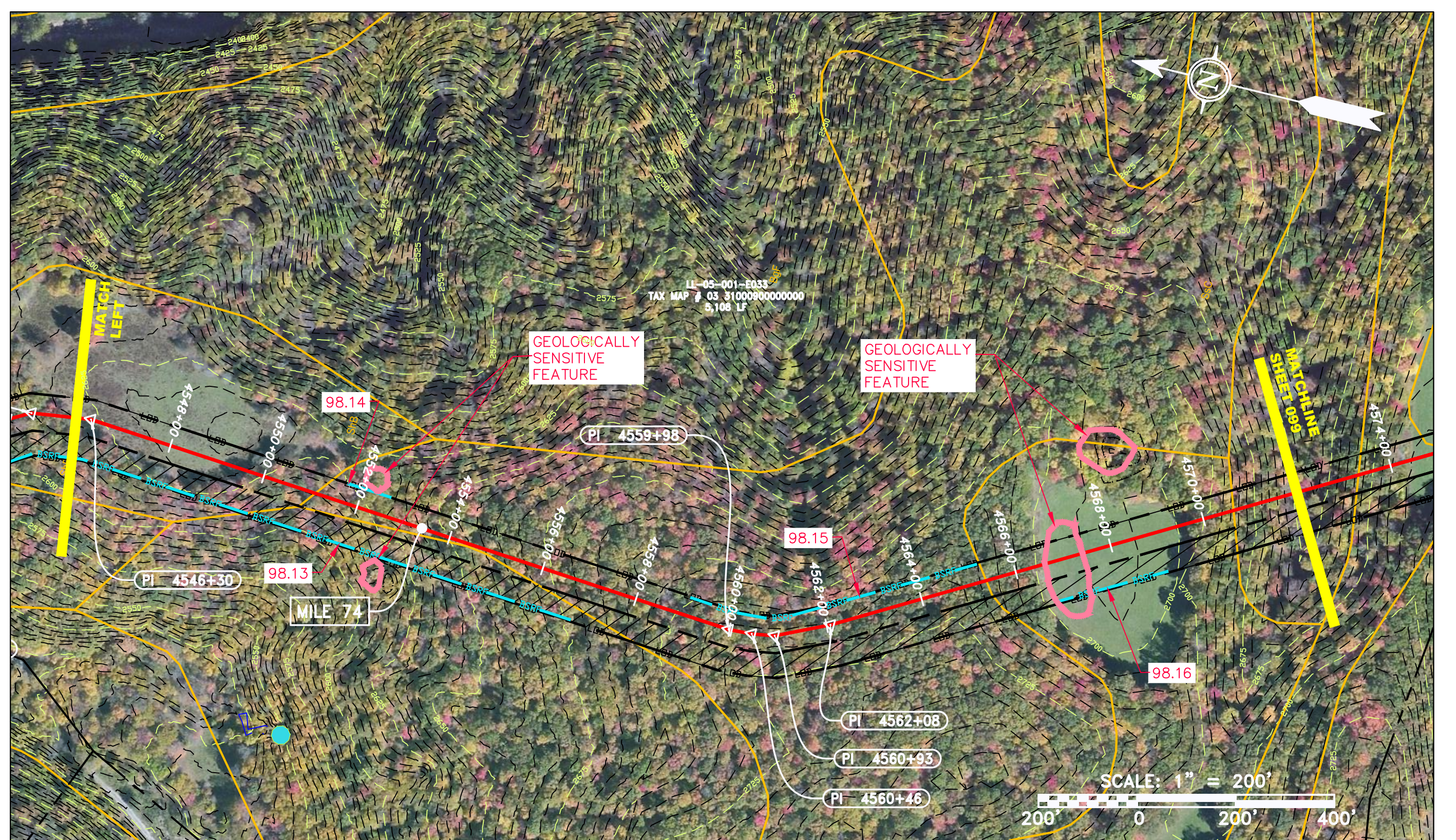
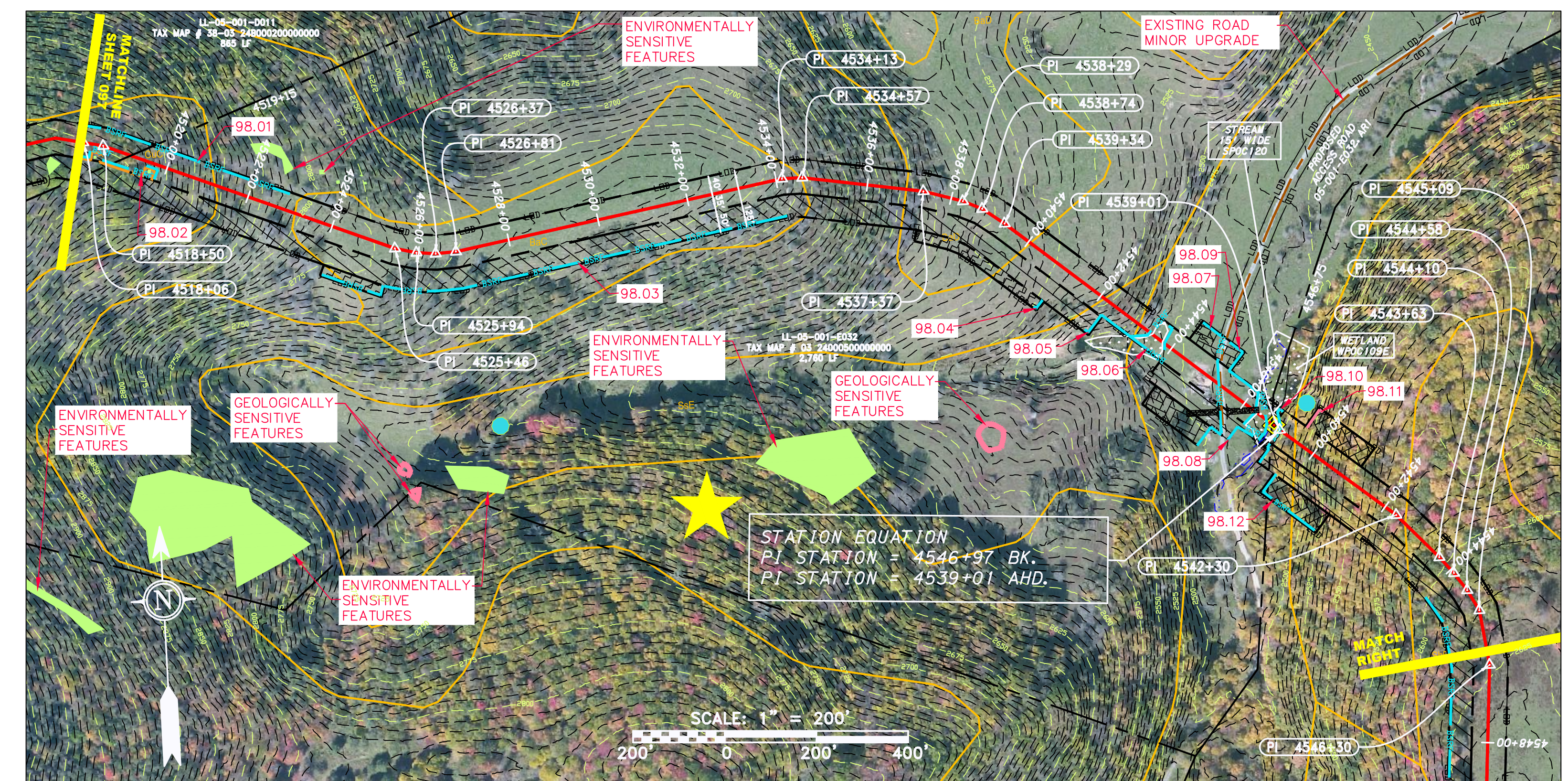
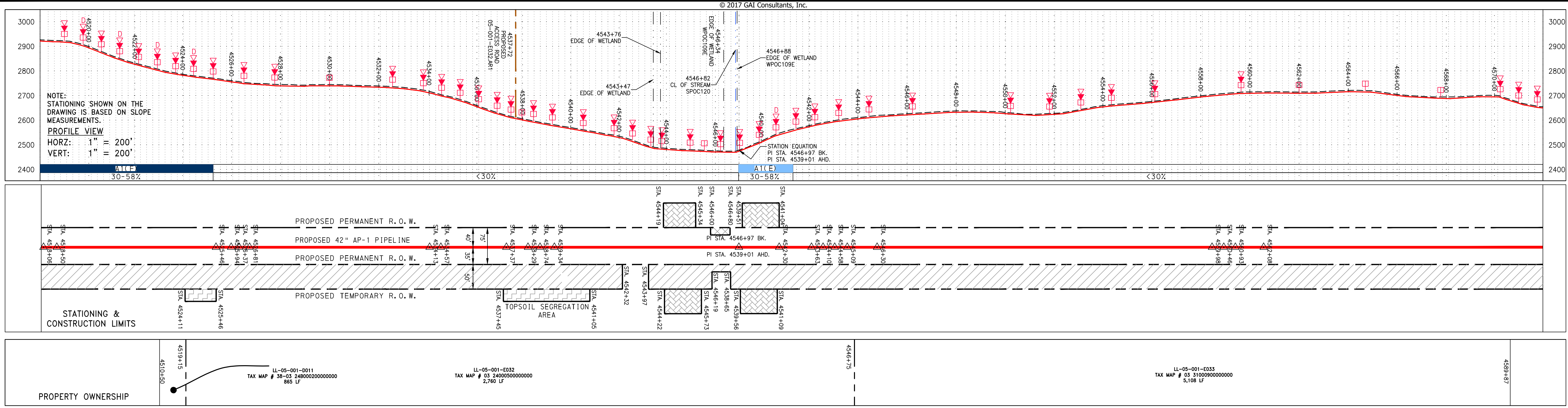
SOUTHPOINT OFFICE
 6000 TOWN CENTER BLVD.
 CANONSBURG, PA 15317
 724-873-3545

300 BUSINESS CENTER DRIVE
 PITTSBURGH, PA 15205
 412-788-2433

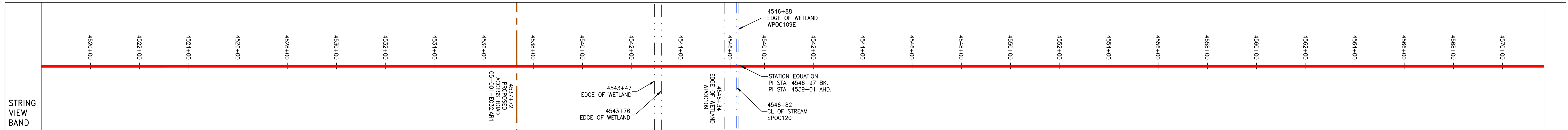
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 TASK NO. SUB TASK NO. 005 00
 GROUP ID DRAWING NO. D E097
 097 OF 344

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J:\2665 - GAI WORK ORDER 02 - SOUTHEAST PIPELINE (SECTION 1)\1 - REROUTE 1A\ALIGNMENT SHEETS\2665-02_SPREAD_1A_SHEET_98.DWG



PIPE SPECIFICATION



LEGEND

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

NOTES:

- COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY - UTM WITH NAD83 DATUM, ZONE 17, US SURVEY FOOT, CENTRAL MERIDIAN 81° W. CONTOURS AND TOPOGRAPHIC FEATURES WERE DERIVED FROM LIDAR DATA AND GPS SUB-METER GROUND SURVEY PERFORMED BY GAI CONSULTANTS, INC FROM 11-03-2014 THRU 11-07-2014. IMAGERY TAKEN FROM GOOGLE EARTH.
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REVISIONS

NO.	DATE	BY	CHKD.	APPROV.	DESCRIPTION

ERM

CONSTRUCTION ALIGNMENT STA. 4518+00 TO 4572+00
POCAHONTAS COUNTY, WEST VIRGINIA

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

SCALE: AS SHOWN
DATE: 5/31/17
DRAWN: CLM
CHECKED: DLH
APPROVED: NET

gai consultants

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

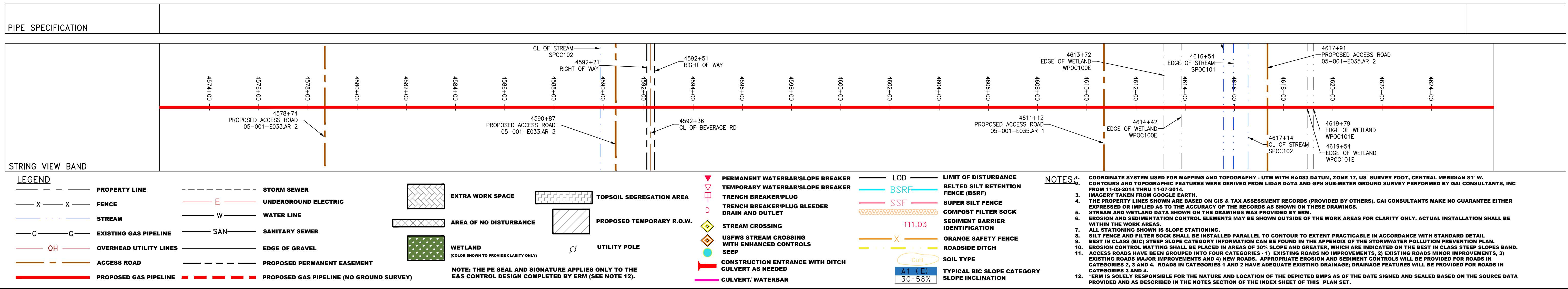
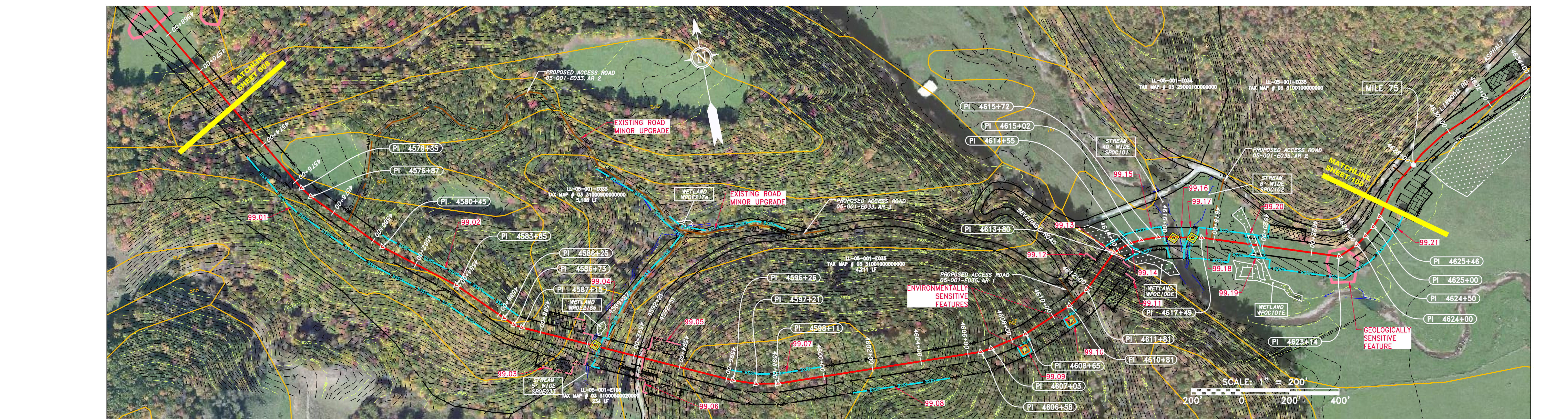
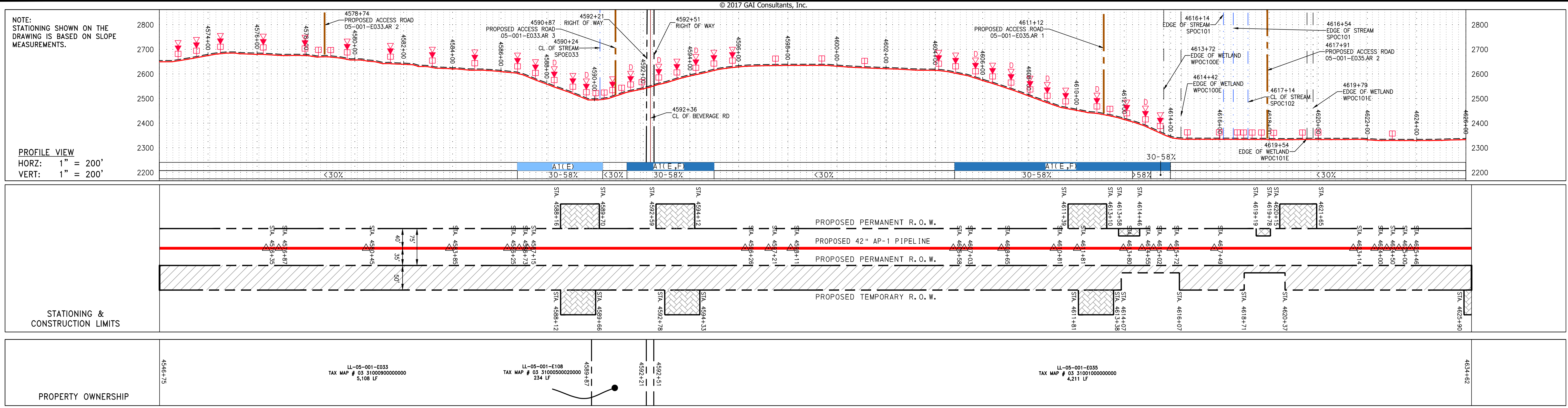
mbe monaloh basin engineers

300 BUSINESS CENTER DRIVE
PITTSBURGH, PA 15205
412-788-2433

PROJECT NO./DASH NO. 140468
TASK NO. SUB TASK NO. 005 00
GROUP ID DRAWING NO. D E098
098 OF 344

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J:\2665 -GAI\WORK ORDER 02 - SOUTHEAST PIPELINE (SECTION 1)\1 - REROUTE 1A\ALIGNMENT SHEETS\2665-02_SPREAD_1A_SHEET_99.DWG



REVISIONS		DESCRIPTION
NO.	DATE	CHKD. APPD.

ERM

CONSTRUCTION ALIGNMENT STA. 4572+00 TO 4626+00
 POCAHONTAS COUNTY, WEST VIRGINIA

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

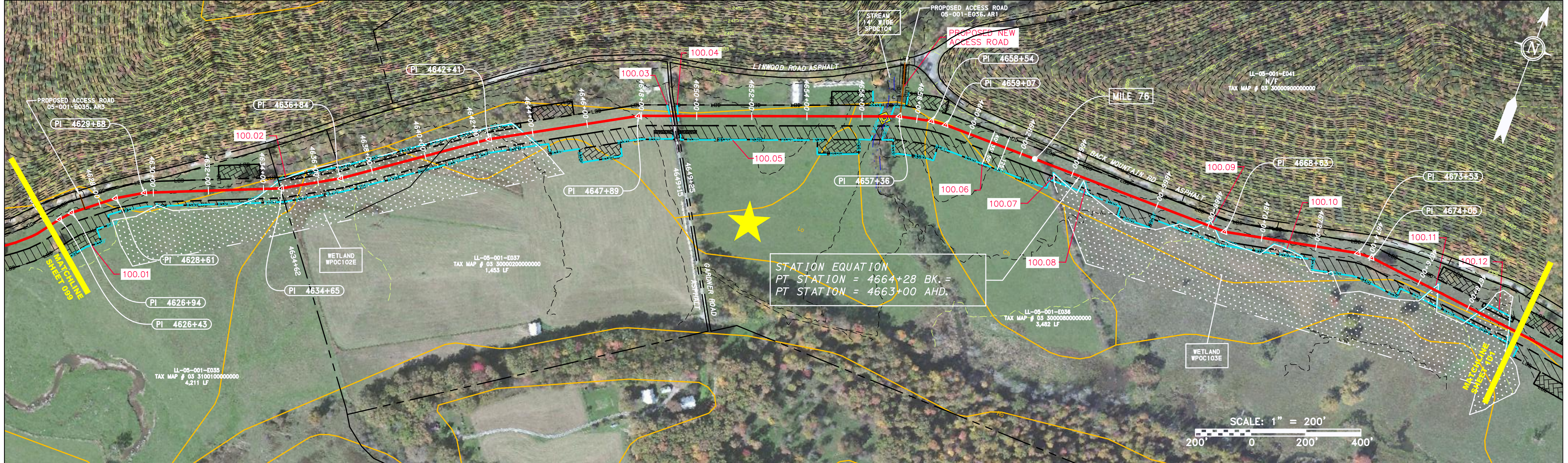
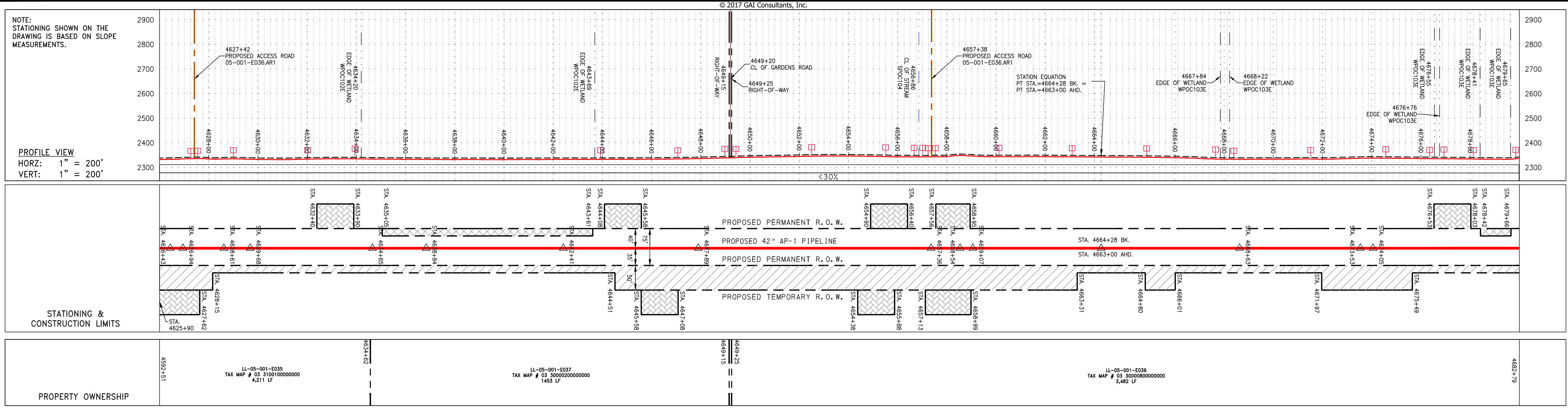
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 DATE: 5/31/17
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 CHECKED: DLH
 APPROVED: NET

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

300 BUSINESS CENTER DRIVE
 PITTSBURGH, PA 15205
 412-788-2433

PROJECT NO./DASH NO.	140468	
TASK NO.	SUB TASK NO.	005 00
GROUP ID	DRAWING NO.	D E099
099	OF 344	

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PIPE SPECIFICATION

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
- AREA OF NO DISTURBANCE
- WETLAND
- TOPSOIL SEGREGATION AREA
- PROPOSED TEMPORARY R.O.W.
- UTILITY POLE
- PERMANENT WATERBAR/SLOPE BREAKER
- TEMPORARY WATERBAR/SLOPE BREAKER
- TRENCH BREAKER/PLUG
- TRENCH BREAKER/PLUG BLEEDER
- DRAIN AND OUTLET
- STREAM CROSSING
- USFWS STREAM CROSSING WITH ENHANCED CONTROLS
- SEEP
- CONSTRUCTION ENTRANCE WITH DITCH
- CULVERT AS NEEDED
- CULVERT WATERBAR
- LOD
- BRSF
- SSF
- 111.03
- CUB
- A1 E1
- 30-58Z
- LIMIT OF DISTURBANCE
- BELTED SILT RETENTION FENCE (BSRF)
- SUPER SILT FENCE
- COMPOST FILTER SOCK
- SEDIMENT BARRIER
- IDENTIFICATION FENCE
- ORANGE SAFETY FENCE
- ROADSIDE DITCH
- SOIL TYPE
- TYPICAL BIC SLOPE CATEGORY
- SLOPE INCLINATION

NOTES:

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REVISIONS

NO.	DATE	CHKD.	APPROV.	DESCRIPTION

ERM

CONSTRUCTION ALIGNMENT STA. 4626+00 TO 4680+00
 POCAHONTAS COUNTY, WEST VIRGINIA

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

SCALE: AS SHOWN
DATE: 5/31/17
DRAWN: RDC
CHECKED: DLH
APPROVED: NET

gai consultants

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

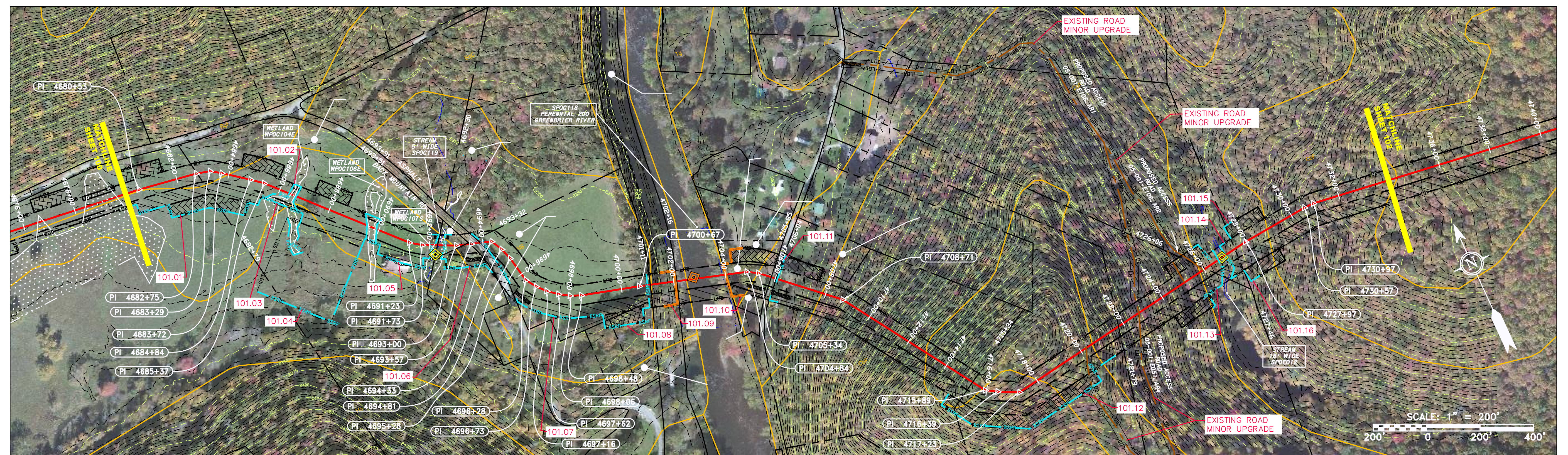
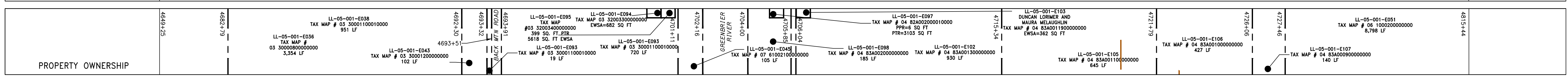
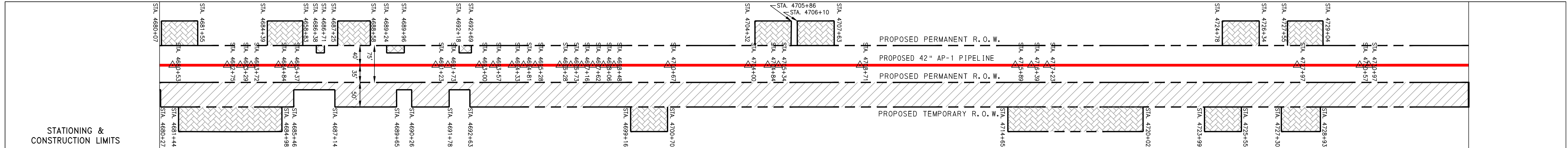
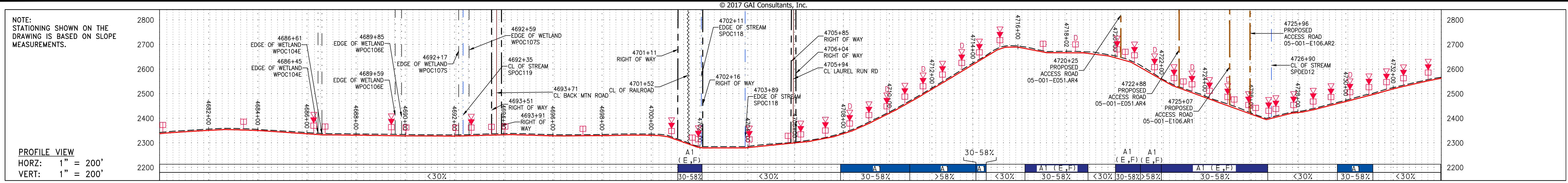
mbe monaloh basin engineers

300 BUSINESS CENTER DRIVE
 PITTSBURGH, PA 15205
 412-788-2433

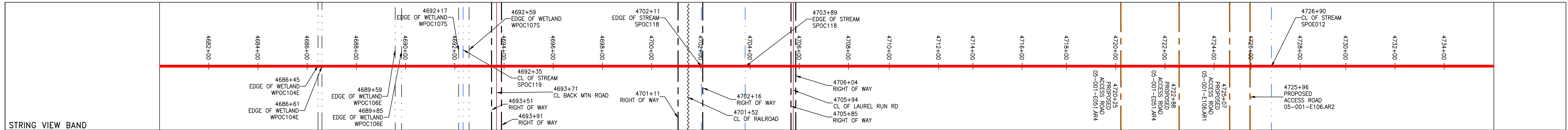
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TASK NO. SUB TASK NO. 005 00
GROUP ID DRAWING NO. D E100
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J:\2665 -GAI\WORK ORDER 02 - SOUTHEAST PIPELINE (SECTION 1)\1 - REROUTE 1A\ALIGNMENT SHEETS\2665-02_SPREAD_1A_SHEET_101.DWG



PIPE SPECIFICATION	PIPE SPECIFICATION
42" AP-1 PIPELINE	42" AP-1 PIPELINE



<p>LEGEND</p> <p>— PROPERTY LINE</p> <p>X X FENCE</p> <p>— STREAM</p> <p>G G EXISTING GAS PIPELINE</p> <p>OH OVERHEAD UTILITY LINES</p> <p>— ACCESS ROAD</p> <p>— PROPOSED GAS PIPELINE</p> <p>— STORM SEWER</p> <p>— UNDERGROUND ELECTRIC</p> <p>— WATER LINE</p> <p>— SAN</p> <p>— SANITARY SEWER</p> <p>— EDGE OF GRAVEL</p> <p>— PROPOSED PERMANENT EASEMENT</p> <p>— PROPOSED GAS PIPELINE (NO GROUND SURVEY)</p>	<p>EXTRA WORK SPACE</p> <p>AREA OF NO DISTURBANCE</p> <p>WETLAND</p> <p>TOPSOIL SEGREGATION AREA</p> <p>PROPOSED TEMPORARY R.O.W.</p> <p>UTILITY POLE</p>	<p>PERMANENT WATERBAR/SLOPE BREAKER</p> <p>TEMPORARY WATERBAR/SLOPE BREAKER</p> <p>TRENCH BREAKER/PLUG</p> <p>TRENCH BREAKER/PLUG BLEEDER</p> <p>DRAIN AND OUTLET</p> <p>STREAM CROSSING</p> <p>USFWS STREAM CROSSING WITH ENHANCED CONTROLS</p> <p>SEEP</p> <p>CONSTRUCTION ENTRANCE WITH DITCH</p> <p>CULVERT AS NEEDED</p> <p>CULVERT WATERBAR</p>	<p>LOD</p> <p>BSRF</p> <p>SSF</p> <p>111.03</p> <p>ORANGE SAFETY FENCE</p> <p>ROADSIDE DITCH</p> <p>SOIL TYPE</p> <p>A1 E1</p> <p>30-58%</p> <p>LIMIT OF DISTURBANCE</p> <p>BELTED SILT RETENTION FENCE (BSRF)</p> <p>SUPER SILT FENCE</p> <p>COMPOST FILTER SOCK</p> <p>SEDIMENT BARRIER IDENTIFICATION</p>	<p>NOTES:</p> <p>1. 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.</p> <p>2. IMAGERY TAKEN FROM GOOGLE EARTH.</p> <p>3. 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 IN THESE DRAWINGS.</p> <p>4. STREAM AND WETLAND DATA SHOWN ON THE DRAWINGS WAS PROVIDED BY ERM.</p> <p>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.</p> <p>6. ALL STATIONING SHOWN IS SLOPE STATIONING.</p> <p>7. SILT FENCE AND FILTER SOCK SHALL BE INSTALLED PARALLEL TO CONTOUR TO EXTENT PRACTICABLE IN ACCORDANCE WITH STANDARD DETAIL.</p> <p>8. BEST IN CLASS (BIC) STEEP SLOPE INFORMATION CAN BE FOUND IN THE APPENDIX OF THE STORMWATER POLLUTION PREVENTION PLAN.</p> <p>9. EROSION CONTROL MATTING SHALL BE PLACED IN AREAS OF 30% SLOPE AND GREATER, WHICH ARE INDICATED ON THE BEST IN CLASS STEEP SLOPES BAND.</p> <p>10. ACCESS ROADS HAVE BEEN GROUPED INTO FOUR CATEGORIES: 1) EXISTING ROADS WITH NO IMPROVEMENTS, 2) EXISTING ROADS WITH MINOR IMPROVEMENTS, 3) EXISTING ROADS WITH MAJOR IMPROVEMENTS AND 4) NEW ROADS. APPROPRIATE EROSION AND SEDIMENT CONTROLS WILL BE PROVIDED FOR ROADS IN CATEGORIES 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.</p> <p>11. ERM IS SOLELY RESPONSIBLE FOR THE NATURE AND LOCATION OF THE EXISTING 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.</p>
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NO.	DATE	CHKD.	APPROV.	DESCRIPTION

ERM

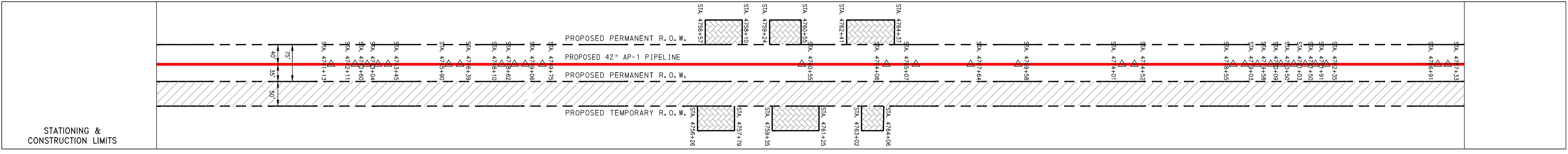
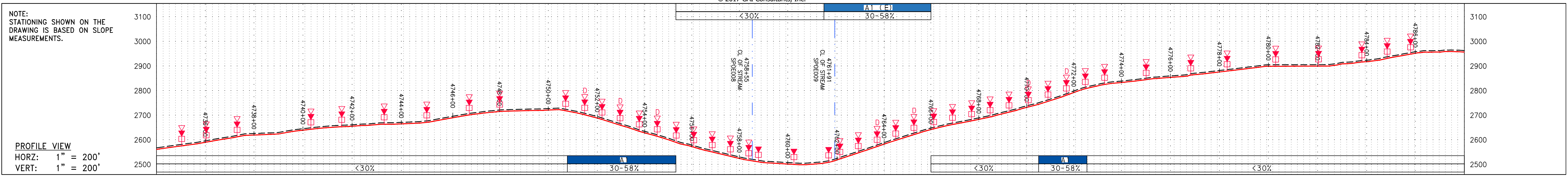
ATLANTIC COAST PIPELINE, LLC
 C/O DOMINION TRANSMISSION, INC.
 925 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330

SCALE:	AS SHOWN
DATE:	5/31/17
DRAWN:	GOS
CHECKED:	DLH
APPROVED:	NET

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

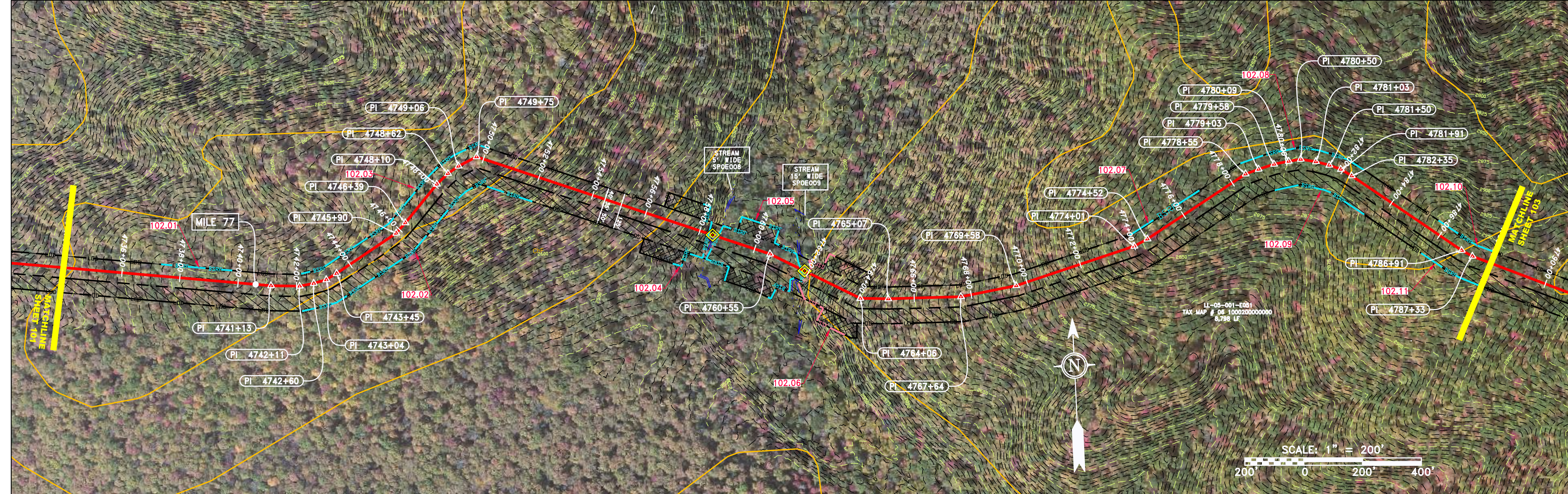
300 BUSINESS CENTER DRIVE
 PITTSBURGH, PA 15205
 412-788-2433

PROJECT NO./DASH NO.	140468	
TASK NO.	SUB TASK NO.	005 00
GROUP ID	DRAWING NO.	D E101
101	OF	344



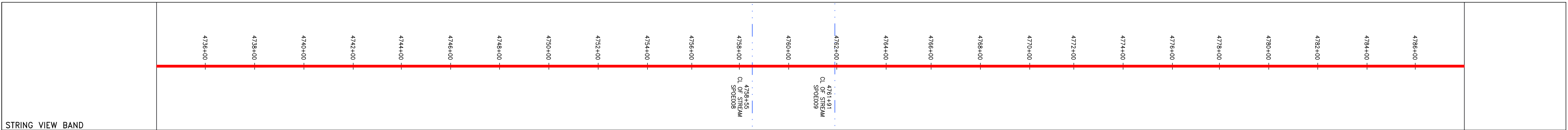
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LL-05-001-E001
 TAX MAP # 08 1000200000000
 8,798 LF



PIPE SPECIFICATION

4738+00	4738+00	4740+00	4742+00	4744+00	4746+00	4748+00	4750+00	4752+00	4754+00	4756+00	4758+00	4760+00	4762+00	4764+00	4766+00	4768+00	4770+00	4772+00	4774+00	4776+00	4778+00	4780+00	4782+00	4784+00	4786+00	4788+00
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LEGEND

— — — — —	PROPERTY LINE	— — — — —	STORM SEWER	[Hatched Box]	EXTRA WORK SPACE	[Hatched Box]	TOPSOIL SEGREGATION AREA	[Red Triangle]	PERMANENT WATERBAR/SLOPE BREAKER	[Blue Line]	LOD	LIMIT OF DISTURBANCE
-X-X-	FENCE	— — — — —	UNDERGROUND ELECTRIC	[Dotted Box]	AREA OF NO DISTURBANCE	[Hatched Box]	PROPOSED TEMPORARY R.O.W.	[Red Triangle]	TEMPORARY WATERBAR/SLOPE BREAKER	[Blue Line]	BSRF	BELTED SILT RETENTION FENCE (BSRF)
— — — — —	STREAM	— — — — —	WATER LINE	[Green Box]	WETLAND	[Circle]	UTILITY POLE	[Red Triangle]	TRENCH BREAKER/PLUG	[Blue Line]	SSF	SUPER SILT FENCE
— — — — —	EXISTING GAS PIPELINE	— — — — —	SANITARY SEWER	[Green Box]	WETLAND	[Circle]	UTILITY POLE	[Red Triangle]	TRENCH BREAKER/PLUG BLEEDER	[Blue Line]	111.03	COMPOST FILTER SOCK
— — — — —	OVERHEAD UTILITY LINES	— — — — —	EDGE OF GRAVEL	[Green Box]	WETLAND	[Circle]	UTILITY POLE	[Red Triangle]	DRAIN AND OUTLET	[Blue Line]	111.03	SEDIMENT BARRIER
— — — — —	ACCESS ROAD	— — — — —	PROPOSED PERMANENT EASEMENT	[Green Box]	WETLAND	[Circle]	UTILITY POLE	[Red Triangle]	USFWS STREAM CROSSING WITH ENHANCED CONTROLS	[Blue Line]	111.03	ORANGE SAFETY FENCE
— — — — —	PROPOSED GAS PIPELINE	— — — — —	PROPOSED GAS PIPELINE (NO GROUND SURVEY)	[Green Box]	WETLAND	[Circle]	UTILITY POLE	[Red Triangle]	CONSTRUCTION ENTRANCE WITH DITCH	[Blue Line]	111.03	ROADSIDE DITCH
				[Green Box]	WETLAND	[Circle]	UTILITY POLE	[Red Triangle]	CULVERT WATERBAR	[Blue Line]	111.03	SOIL TYPE
				[Green Box]	WETLAND	[Circle]	UTILITY POLE	[Red Triangle]		[Blue Line]	111.03	TYPICAL BIC SLOPE CATEGORY
				[Green Box]	WETLAND	[Circle]	UTILITY POLE	[Red Triangle]		[Blue Line]	111.03	SLOPE INCLINATION

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

NOTES:

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- SILT FENCE AND FILTER SOCK SHALL BE INSTALLED PARALLEL TO CONTOUR TO EXTENT PRACTICABLE IN ACCORDANCE WITH STANDARD DETAIL.
- BEST IN CLASS (BIC) STEEP SLOPE INFORMATION CAN BE FOUND IN THE APPENDIX OF THE STORMWATER POLLUTION PREVENTION PLAN.
- EROSION CONTROL MATTING SHALL BE PLACED IN AREAS OF 30% SLOPE AND GREATER, WHICH ARE INDICATED ON THE BEST IN CLASS STEEP SLOPES BAND.
- ACCESS ROADS HAVE BEEN GROUPED INTO FOUR CATEGORIES - 1) EXISTING ROADS NO IMPROVEMENTS, 2) EXISTING ROADS MINOR IMPROVEMENTS, 3) EXISTING ROADS MAJOR IMPROVEMENTS AND 4) NEW ROADS. APPROPRIATE EROSION AND SEDIMENT CONTROLS WILL BE PROVIDED FOR ROADS IN CATEGORIES 3 AND 4. ROADS IN CATEGORIES 1 AND 2 HAVE ADEQUATE EXISTING DRAINAGE; DRAINAGE FEATURES WILL BE PROVIDED FOR ROADS IN CATEGORIES 3 AND 4.
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REVISIONS

NO.	DATE	BY	CHKD.	APPROV.	DESCRIPTION
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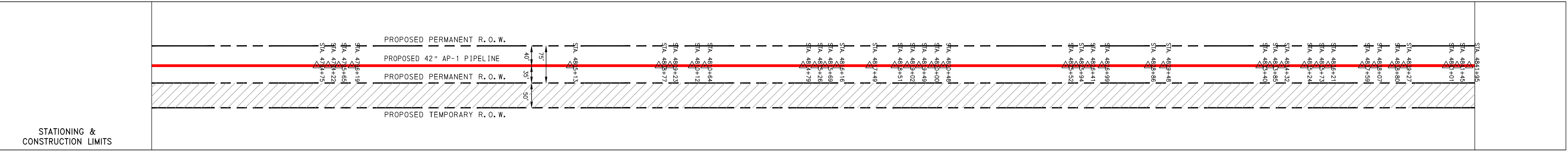
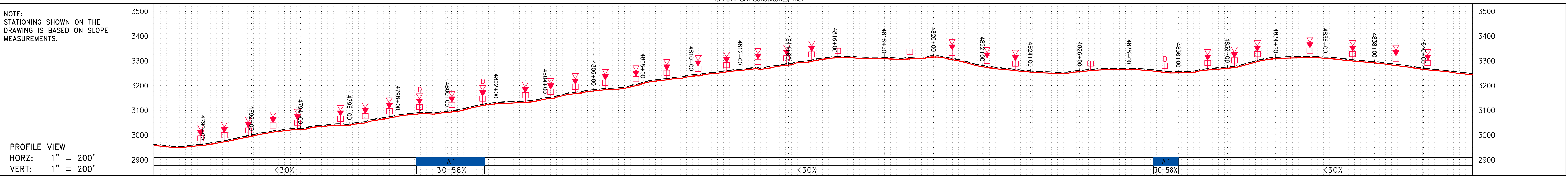
CONSTRUCTION ALIGNMENT STA. 4734+00 TO 4788+00
 POCAHONTAS COUNTY, WEST VIRGINIA
 ATLANTIC COAST PIPELINE, LLC
 C/O DOMINION TRANSMISSION, INC.
 925 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330

SCALE: AS SHOWN
 DATE: 5/31/17
 DRAWN: RDC
 CHECKED: DLH
 APPROVED: NET

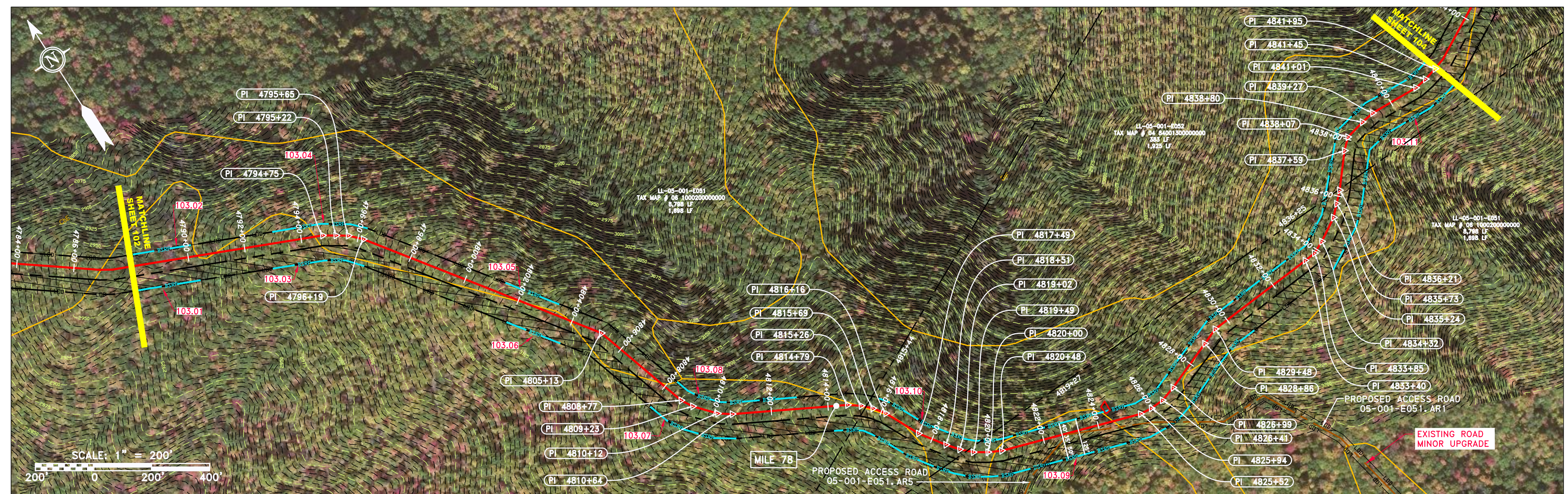
SOUTHPOINTE OFFICE
 6000 TOWN CENTER BLVD.
 CANONSBURG, PA 15317
 724-273-3545

300 BUSINESS CENTER DRIVE
 PITTSBURGH, PA 15205
 412-788-2433

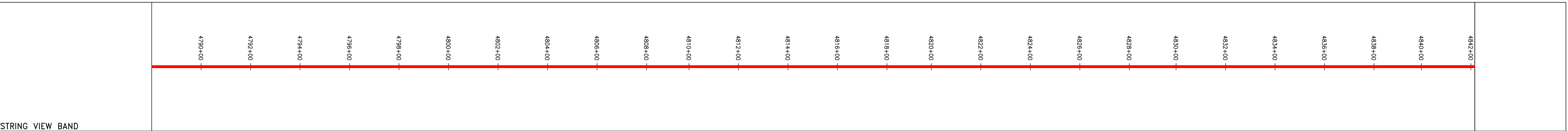
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 140468
 TASK NO. SUB TASK NO.
 005 00
 GROUP ID DRAWING NO.
 D E103
 102 OF 344
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PROPERTY OWNERSHIP	STATIONING & CONSTRUCTION LIMITS
4727+46	PROPOSED PERMANENT R. O. W.
LL-05-001-E051 TAX MAP # 06 1000200000000 8,798 LF	PROPOSED 42" AP-1 PIPELINE
LL-05-001-E052 TAX MAP # 04 840013000000000 383 LF	PROPOSED PERMANENT R. O. W.
LL-05-001-E051 TAX MAP # 06 1000200000000 1,698 LF	PROPOSED TEMPORARY R. O. W.
LL-05-001-E052 TAX MAP # 04 840013000000000 1,925 LF	
4855+50	



PIPE SPECIFICATION
4798+00
4799+00
4799+00
4799+00
4799+00
4800+00
4802+00
4804+00
4806+00
4808+00
4810+00
4812+00
4814+00
4816+00
4818+00
4820+00
4822+00
4824+00
4826+00
4828+00
4830+00
4832+00
4834+00
4836+00
4838+00
4840+00



LEGEND

— X — X — FENCE	— E — UNDERGROUND ELECTRIC	— W — WATER LINE	— SAN — SANITARY SEWER	— OH — OVERHEAD UTILITY LINES	— ACCESS ROAD	— PROPOSED PERMANENT EASEMENT	— PROPOSED GAS PIPELINE (NO GROUND SURVEY)	EXTRA WORK SPACE	TOPSOIL SEGREGATION AREA	AREA OF NO DISTURBANCE	PROPOSED TEMPORARY R.O.W.	UTILITY POLE	PERMANENT WATERBAR/SLOPE BREAKER	TEMPORARY WATERBAR/SLOPE BREAKER	TRENCH BREAKER/PLUG	TRENCH BREAKER/PLUG BLEEDER DRAIN AND OUTLET	STREAM CROSSING	USFWS STREAM CROSSING WITH ENHANCED CONTROLS	SEEP	CONSTRUCTION ENTRANCE WITH DITCH	CULVERT/ WATERBAR	LOD	BSRF	SSF	111.03	CUB	A1 LE	30-58%	LIMIT OF DISTURBANCE	BELTED SILT RETENTION FENCE (BSRF)	SUPER SILT FENCE	COMPOST FILTER SOCK	SEDIMENT BARRIER IDENTIFICATION	ORANGE SAFETY FENCE	ROADSIDE DITCH	SOIL TYPE	TYPICAL BIC SLOPE CATEGORY	SLOPE INCLINATION
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NOTES:

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REVISIONS		DESCRIPTION
NO.	DATE	CHKD. APPVD.

ERM

CONSTRUCTION ALIGNMENT STA. 4788+00 TO 4842+00
POCAHONTAS COUNTY, WEST VIRGINIA

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

SCALE: AS SHOWN
DATE: 5/31/17
DRAWN: RLM
CHECKED: DLH
APPROVED: NET

gai consultants
SOUTHPOINTE OFFICE
6000 TOWN CENTER BLVD.
CANONSBURG, PA 15317
724-273-3545

PROJECT NO./DASH NO.
140468

TASK NO.	SUB TASK NO.
005	00

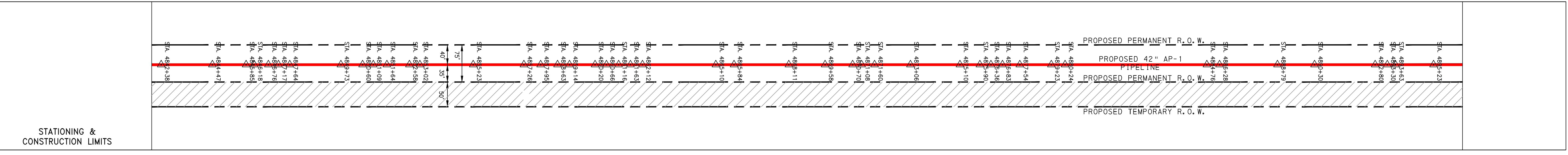
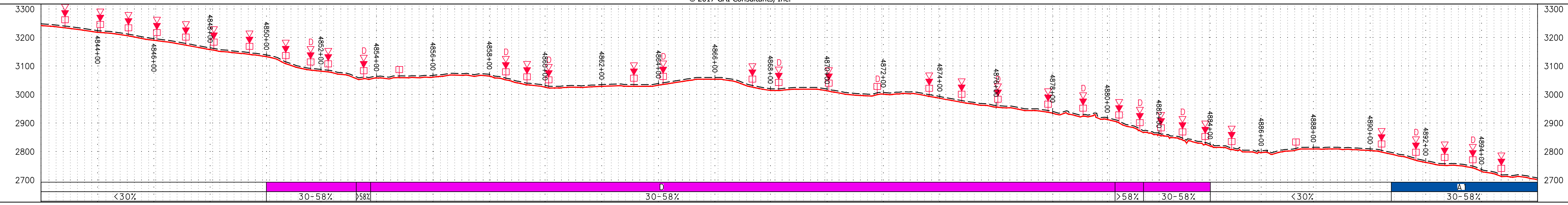
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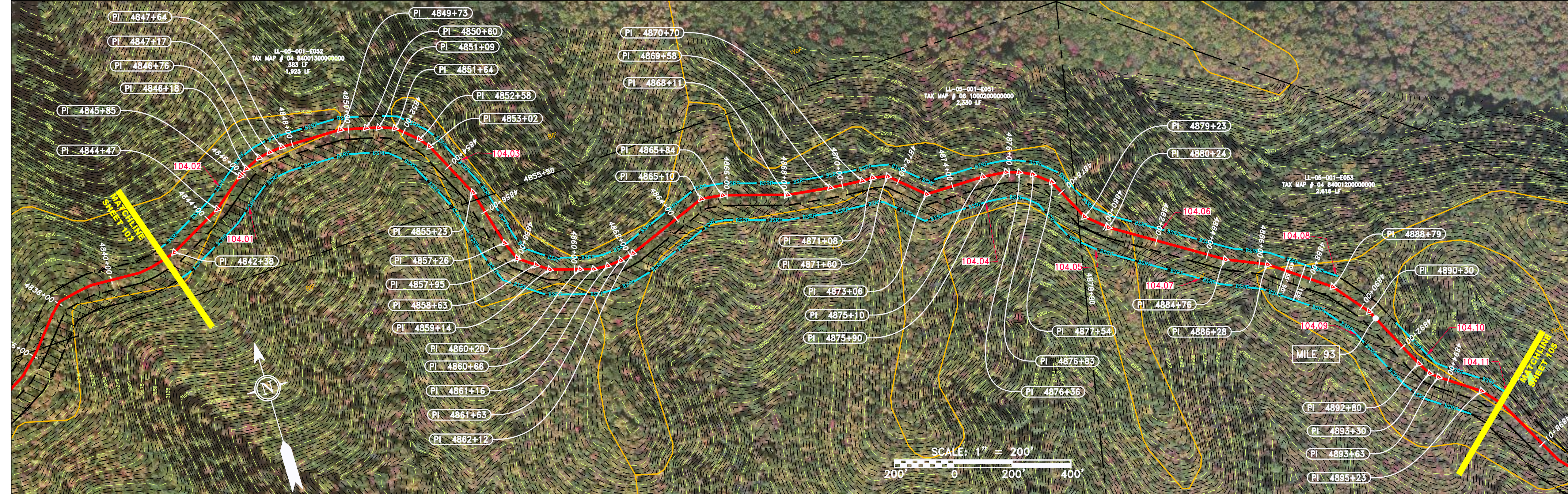
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NOTE:
STATIONING SHOWN ON THE
DRAWING IS BASED ON SLOPE
MEASUREMENTS.

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



PROPERTY OWNERSHIP	STATIONING & CONSTRUCTION LIMITS
4836+25 LL-05-001-E052 TAX MAP # 04 84001200000000 1,925 LF	4851+50 LL-05-001-E051 TAX MAP # 06 10002000000000 2,330 LF
	4878+80 LL-05-001-E053 TAX MAP # 04 84001200000000 2,616 LF
	86+069



PIPE SPECIFICATION
4834+00
4844+00
4846+00
4848+00
4850+00
4852+00
4854+00
4856+00
4858+00
4860+00
4862+00
4864+00
4866+00
4868+00
4870+00
4872+00
4874+00
4876+00
4878+00
4880+00
4882+00
4884+00
4886+00
4888+00
4890+00
4892+00
4894+00



LEGEND - - - - - 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)	E 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 TOPSOIL SEGREGATION AREA PROPOSED TEMPORARY R.O.W. UTILITY POLE	PERMANENT WATERBAR/SLOPE BREAKER TEMPORARY WATERBAR/SLOPE BREAKER TRENCH BREAKER/PLUG TRENCH BREAKER/PLUG BLEEDER DRAIN AND OUTLET STREAM CROSSING USFWS STREAM CROSSING WITH ENHANCED CONTROLS SEEP CONSTRUCTION ENTRANCE WITH DITCH CULVERT AS NEEDED CULVERT WATERBAR	LOD LIMIT OF DISTURBANCE BSRF BELTED SILT RETENTION FENCE (BSRF) SSF SUPER SILT FENCE COMPOST FILTER SOCK SEDIMENT BARRIER IDENTIFICATION ORANGE SAFETY FENCE ROADSIDE DITCH SOIL TYPE TYPICAL BIC SLOPE CATEGORY SLOPE INCLINATION	NOTES: 1. COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY - UTM WITH NAD83 DATUM, ZONE 17, US SURVEY FOOT, CENTRAL MERIDIAN 81° W. 2. CONTOURS AND TOPOGRAPHIC FEATURES WERE DERIVED FROM LIDAR DATA AND GPS SUB-METER GROUND SURVEY PERFORMED BY GAI CONSULTANTS, INC FROM 11-03-2014 THRU 11-07-2014. 3. IMAGERY TAKEN FROM GOOGLE EARTH. 4. THE PROPERTY LINES SHOWN ARE BASED ON GIS & TAX ASSESSMENT RECORDS (PROVIDED BY OTHERS). GAI CONSULTANTS MAKE NO GUARANTEE EITHER EXPRESSED OR IMPLIED AS TO THE ACCURACY OF THE RECORDS AS SHOWN ON THESE DRAWINGS. 5. STREAM AND WETLAND DATA SHOWN ON THE DRAWINGS WAS PROVIDED BY ERM. 6. EROSION AND SEDIMENTATION CONTROL ELEMENTS MAY BE SHOWN OUTSIDE OF THE WORK AREAS FOR CLARITY ONLY. ACTUAL INSTALLATION SHALL BE WITHIN THE WORK AREAS. 7. ALL STATIONING SHOWN IS SLOPE STATIONING. 8. SILT FENCE AND FILTER SOCK SHALL BE INSTALLED PARALLEL TO CONTOUR TO EXTENT PRACTICABLE IN ACCORDANCE WITH STANDARD DETAIL. BEST IN CLASS (BIC) STEEP SLOPE CATEGORY INFORMATION CAN BE FOUND IN THE APPENDIX OF THE STORMWATER POLLUTION PREVENTION PLAN. 9. EROSION CONTROL MATTING SHALL BE PLACED IN AREAS OF 30% SLOPE AND GREATER, WHICH ARE INDICATED ON THE BEST IN CLASS STEEP SLOPES BAND. 10. ACCESS ROADS HAVE BEEN GROUPED INTO FOUR CATEGORIES - 1) EXISTING ROADS NO IMPROVEMENTS, 2) EXISTING ROADS MINOR IMPROVEMENTS, 3) EXISTING ROADS MAJOR IMPROVEMENTS AND 4) NEW ROADS. APPROPRIATE EROSION AND SEDIMENT CONTROLS WILL BE PROVIDED FOR ROADS IN CATEGORIES 2, 3 AND 4. ROADS IN CATEGORIES 1 AND 2 HAVE ADEQUATE EXISTING DRAINAGE; DRAINAGE FEATURES WILL BE PROVIDED FOR ROADS IN CATEGORIES 3 AND 4. 11. *ERM IS SOLELY RESPONSIBLE FOR THE NATURE AND LOCATION OF THE DEPICTED BMPs AS OF THE DATE SIGNED AND SEALED BASED ON THE SOURCE DATA PROVIDED AND AS DESCRIBED IN THE NOTES SECTION OF THE INDEX SHEET OF THIS PLAN SET. 12.
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NO.	DATE	CHKD.	APP'D.	DESCRIPTION

ERM
 CONSTRUCTION ALIGNMENT STA. 4842+00 TO 4896+00
 POCAHONTAS COUNTY, WEST VIRGINIA
ATLANTIC COAST PIPELINE, LLC
 C/O DOMINION TRANSMISSION, INC.
 925 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330

SCALE: AS SHOWN
 DATE: 5/31/17
 DRAWN: RDH
 CHECKED: DLH
 APPROVED: NET

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

 300 BUSINESS CENTER DRIVE
 PITTSBURGH, PA 15205
 412-788-2433

PROJECT NO./DASH NO.	140468	
TASK NO.	SUB TASK NO.	
005	00	
GROUP ID	DRAWING NO.	
D	E104	
104	OF	344