

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 7-23-2014 TO 10-16-2014.
- IMAGERY DERIVED FROM GOOGLE MAPS.
- 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.
- 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&S) 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

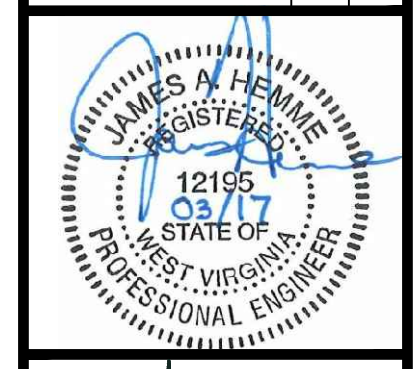


# Atlantic Coast Pipeline<sup>SM</sup>

LEGEND

- PROPOSED GAS PIPELINE
- - - - - 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

NO.	DATE	DWN.	CHKD.	APPRD.	DESCRIPTION



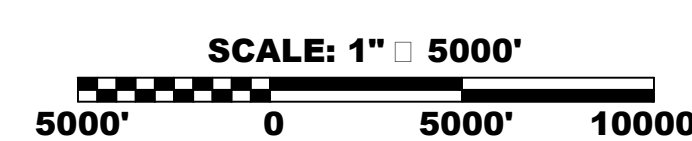
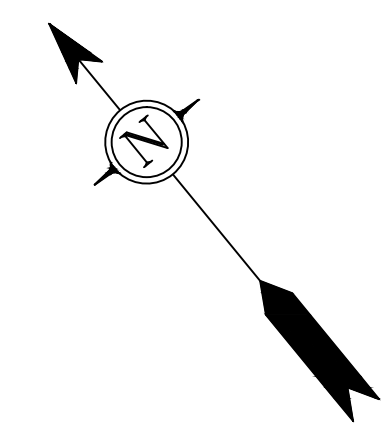
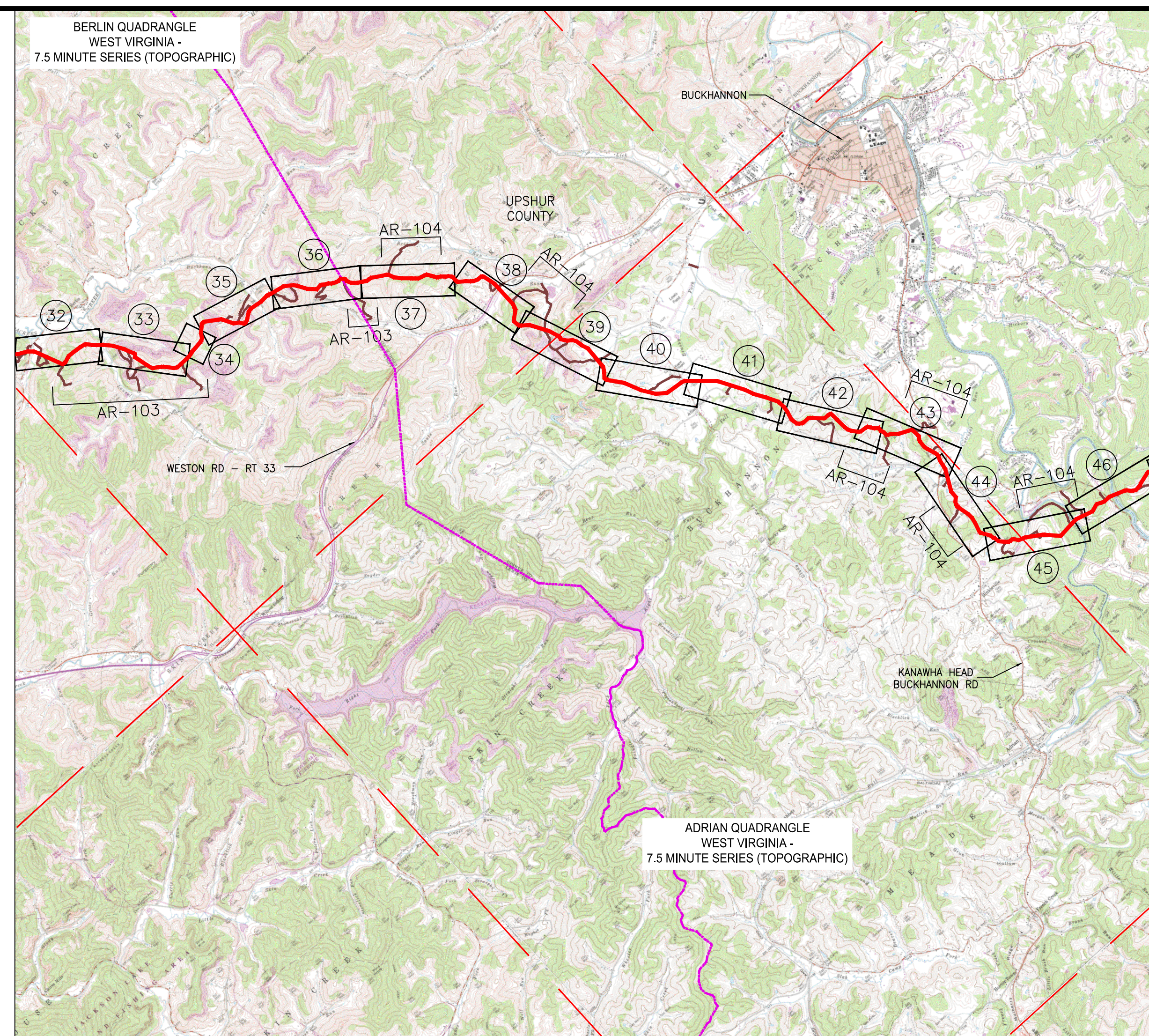
42" SPREAD 1-2 PIPELINE  
E & S CONTROLS COVER SHEET  
LEWIS & UPSHUR COUNTIES, WEST VIRGINIA

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

SPREAD 1-2 PIPELINE DRAWING INDEX	
SHEET NO.	SHEET TITLE
1	INTENTIONALLY LEFT BLANK
2	COVER SHEET
3-31	INTENTIONALLY LEFT BLANK
32	CONSTRUCTION ALIGNMENT (STA 896+00 TO 952+00)
33	CONSTRUCTION ALIGNMENT (STA 952+00 TO 1008+00)
34	CONSTRUCTION ALIGNMENT (STA 1008+00 TO 1008+00)
35	CONSTRUCTION ALIGNMENT (STA 1008+00 TO 1064+00)
36	CONSTRUCTION ALIGNMENT (STA 1064+00 TO 1120+00)
37	CONSTRUCTION ALIGNMENT (STA 1120+00 TO 1176+00)
38	CONSTRUCTION ALIGNMENT (STA 1176+00 TO 1232+00)
39	CONSTRUCTION ALIGNMENT (STA 1232+00 TO 1288+00)

SPREAD 1-2 PIPELINE DRAWING INDEX	
SHEET NO.	SHEET TITLE
40	CONSTRUCTION ALIGNMENT (STA 1288+00 TO 1344+00)
41	CONSTRUCTION ALIGNMENT (STA 1344+00 TO 1400+00)
42	CONSTRUCTION ALIGNMENT (STA 1400+00 TO 1456+00)
43	CONSTRUCTION ALIGNMENT (STA 1456+00 TO 1512+00)
44	CONSTRUCTION ALIGNMENT (STA 1512+00 TO 1568+00)
45	CONSTRUCTION ALIGNMENT (STA 1568+00 TO 1624+00)
46	CONSTRUCTION ALIGNMENT (STA 1624+00 TO 1680+00)

# ATLANTIC COAST PIPELINE PROJECT - 42" SPREAD 1-2



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

**gai consultants**

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

**mbe**  
monaloh basin engineers

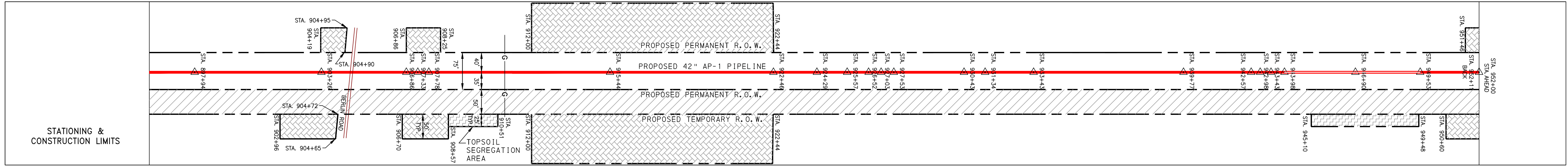
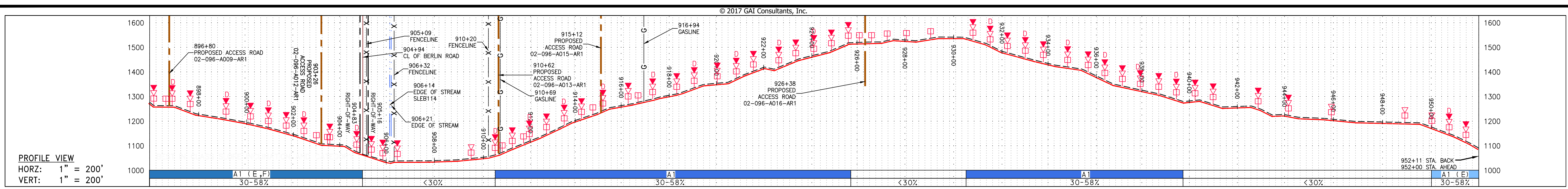
300 BUSINESS CENTER DRIVE  
PITTSBURGH, PA 15205  
412-788-2433

PROJECT NO./DASH NO.	140468
TASK NO. SUB TASK NO.	005 00
GROUP ID DRAWING NO.	D E002
002 OF 46	

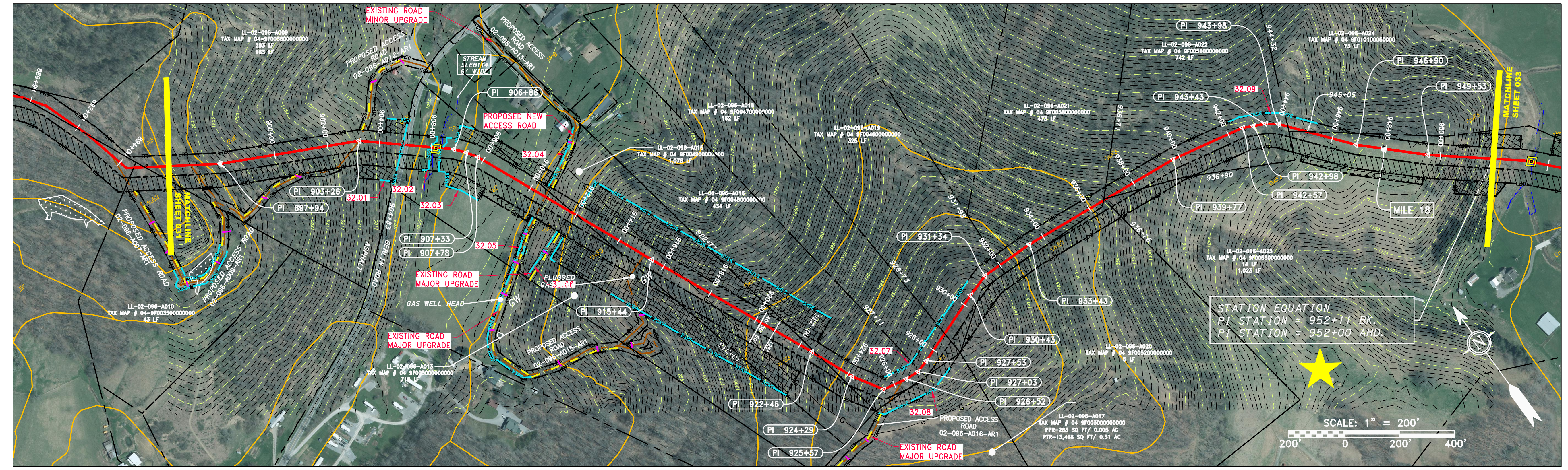
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GAI CAD FILE NO. J:\2665 - GAI\WORK ORDER 02 - SOUTHEAST PIPELINE (SECTION 1)\E&S COVER SHTS WV\E&S WV COVER FOR PLAN SHEETS (1-2).DWG

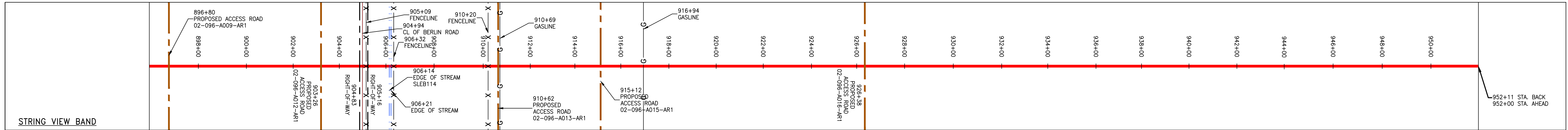
J:\2665 -GAI\WORK ORDER 02 - SOUTHEAST PIPELINE (SECTION 1)\ALIGNMENT SHEETS\2665-2 PLAN SHEETS (32).DWG



PROPERTY OWNERSHIP	LL-02-096-A009 TAX MAP # 04-9F033600000000 983 LF	LL-02-096-A013 TAX MAP # 04-9F005000000000 718 LF	LL-02-096-A015 TAX MAP # 04-9F004900000000 1,076 LF	LL-02-096-A017 TAX MAP # 04-9F003000000000 PTR-263 SQ FT / 0.005 AC PTR-13,468 SQ FT / 0.31 AC	LL-02-096-A018 TAX MAP # 04-9F004700000000 162 LF	LL-02-096-A019 TAX MAP # 04-9F004600000000 325 LF	LL-02-096-A021 TAX MAP # 04-9F003800000000 473 LF	LL-02-096-A022 TAX MAP # 04-9F005600000000 742 LF	LL-02-096-A024 TAX MAP # 04-9F010100000000 73 LF	LL-02-096-A023 TAX MAP # 04-9F005000000000 1,023 LF
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PIPE SPECIFICATION	896+80 PROPOSED ACCESS ROAD 02-096-A009-AR1	904+94 CL OF BERLIN ROAD	910+20 FENCELINE	910+69 GASLINE	916+94 GASLINE	922+00	924+00	926+00	928+00	930+00	932+00	934+00	936+00	938+00	940+00	942+00	944+00	946+00	952+11 STA. BACK 952+00 STA. AHEAD
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**LEGEND**

— X — X — FENCE	— E — UNDERGROUND ELECTRIC	— W — WATER LINE	— SAN — SANITARY SEWER	— OH — OVERHEAD UTILITY LINES	— ACCESS ROAD	— PROPOSED GAS PIPELINE	— PROPOSED GAS PIPELINE (NO GROUND SURVEY)	— STORM SEWER	— WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)	— 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	— 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	— 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:**

- 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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- 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 2, 3 AND 4. ROADS IN CATEGORIES 1 AND 2 HAVE ADEQUATE EXISTING DRAINAGE; DRAINAGE FEATURES WILL BE PROVIDED FOR ROADS IN CATEGORIES 3 AND 4.
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**REVISIONS**

NO.	DATE	CHKD.	APPD.	DESCRIPTION

**ERM**

CONSTRUCTION ALIGNMENT STA 896+00 TO 952+00  
LEWIS COUNTY, WEST VIRGINIA

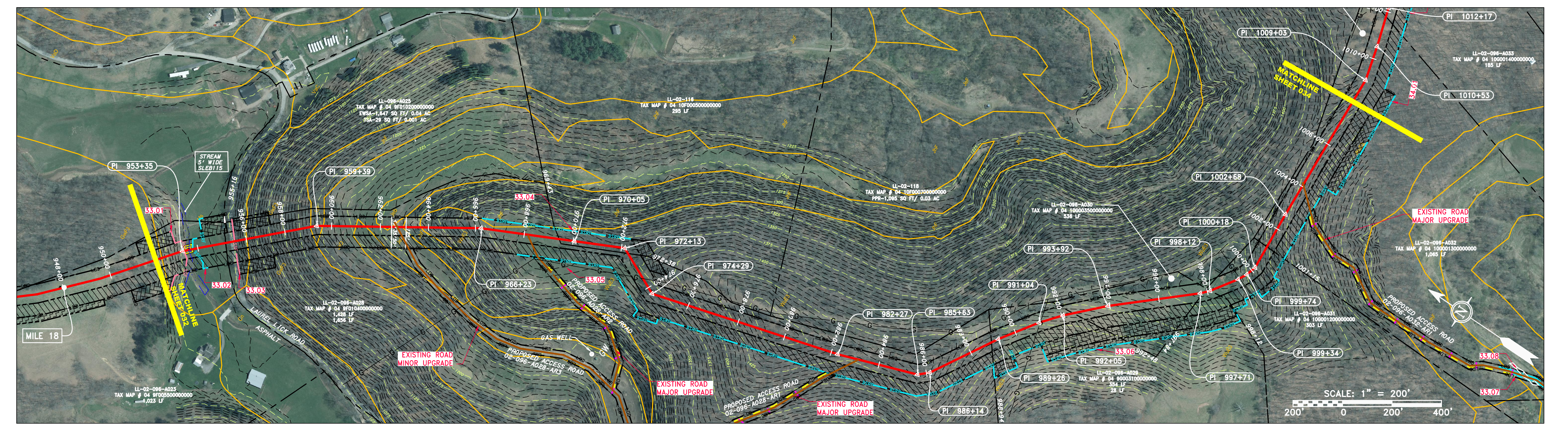
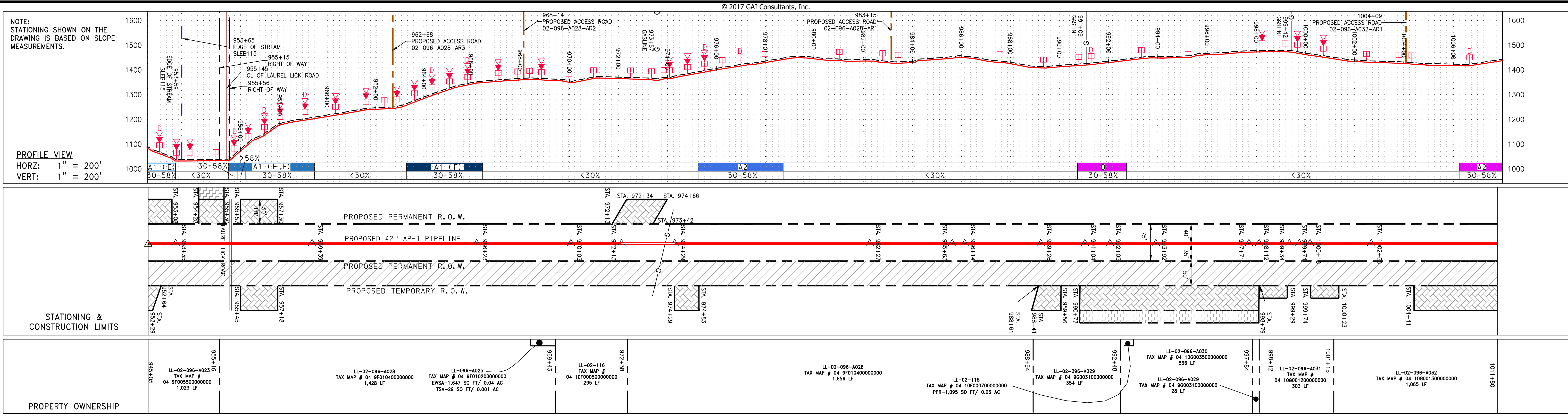
ATLANTIC COAST PIPELINE, LLC  
925 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330

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

PROJECT NO./DASH NO. 140468  
TASK NO. SUB TASK NO. 005 00  
GROUP ID DRAWING NO. D E032  
032 OF 344

5/31/2017 1:31 PM

J:\2665 - GAI\WORK ORDER 02 - SOUTHEAST PIPELINE (SECTION 1)\ALIGNMENT SHEETS\2665-2 PLAN SHEETS (33).DWG



**PIPE SPECIFICATION**

**STRING VIEW BAND**

**LEGEND**

— X — X —	PROPERTY LINE	— E —	STORM SEWER	▨	EXTRA WORK SPACE	▨	TOPSOIL SEGREGATION AREA
— W —	FENCE	— W —	UNDERGROUND ELECTRIC	▨	AREA OF NO DISTURBANCE	▨	PROPOSED TEMPORARY R.O.W.
— G — G —	STREAM	— SAN —	WATER LINE	▨	WETLAND	⊙	UTILITY POLE
— OH —	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	DWN.	CHKD.	APPD.	DESCRIPTION

**ERM**

**JAMES A. HEMME**  
REGISTERED PROFESSIONAL ENGINEER  
12195  
03/17  
STATE OF WEST VIRGINIA

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

**42" AP-1 PIPELINE**  
CONSTRUCTION ALIGNMENT STA 952+00 TO 1008+00  
LEWIS COUNTY, WEST VIRGINIA

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**  
monahon basin engineers  
300 BUSINESS CENTER DRIVE  
PITTSBURGH, PA 15205  
412-788-2433

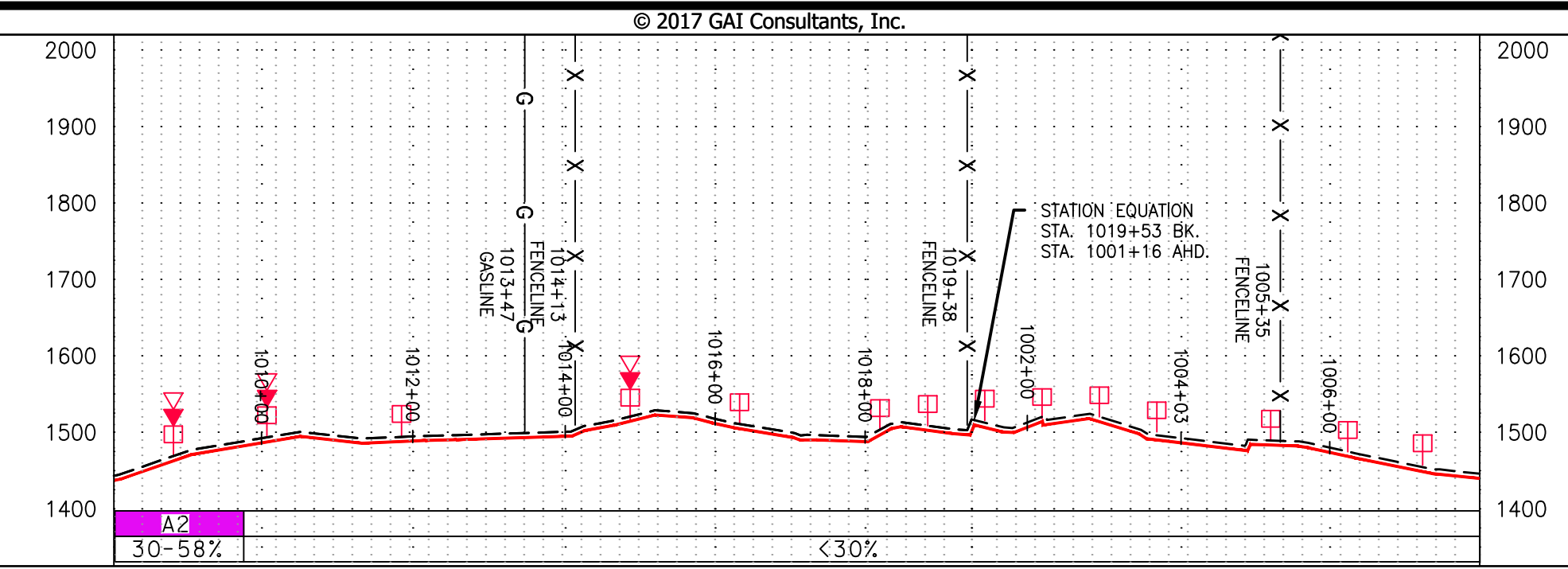
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140468  
TASK NO. SUB TASK NO.  
005 00  
GROUP ID DRAWING NO.  
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033 OF 344

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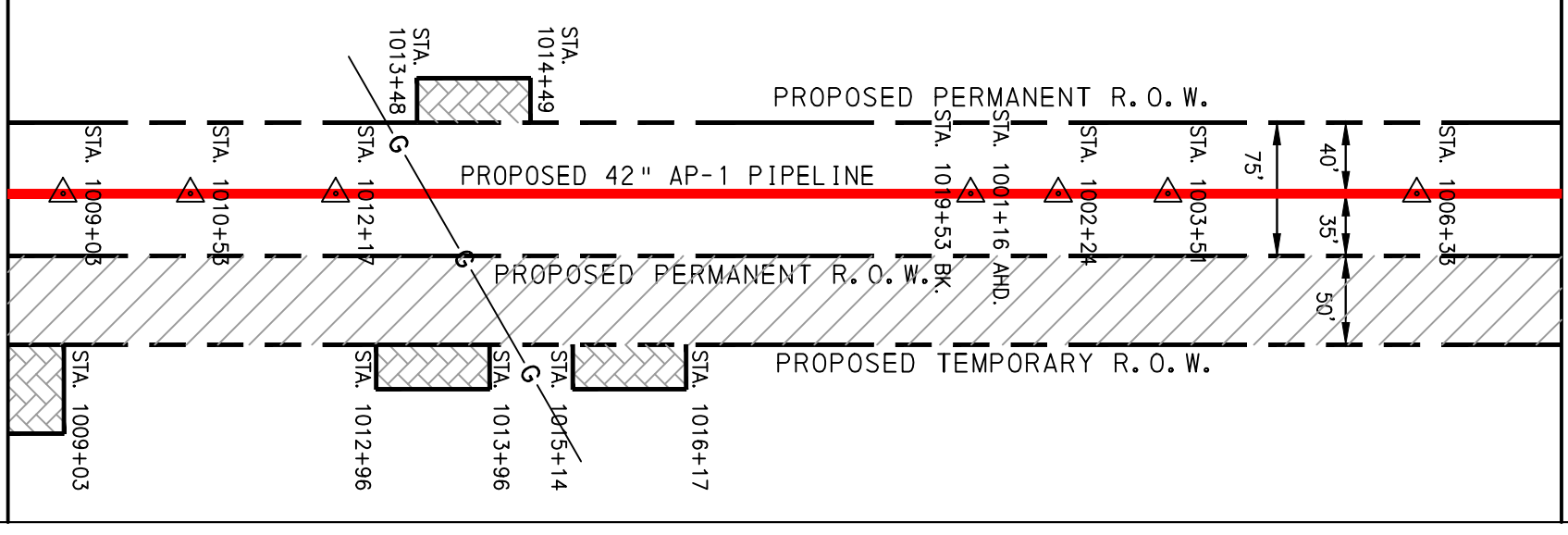
J:\2665 - GAI\WORK ORDER 02 - SOUTHEAST PIPELINE (SECTION 1)\ALIGNMENT SHEETS\2665-2 PLAN SHEETS (34).DWG

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

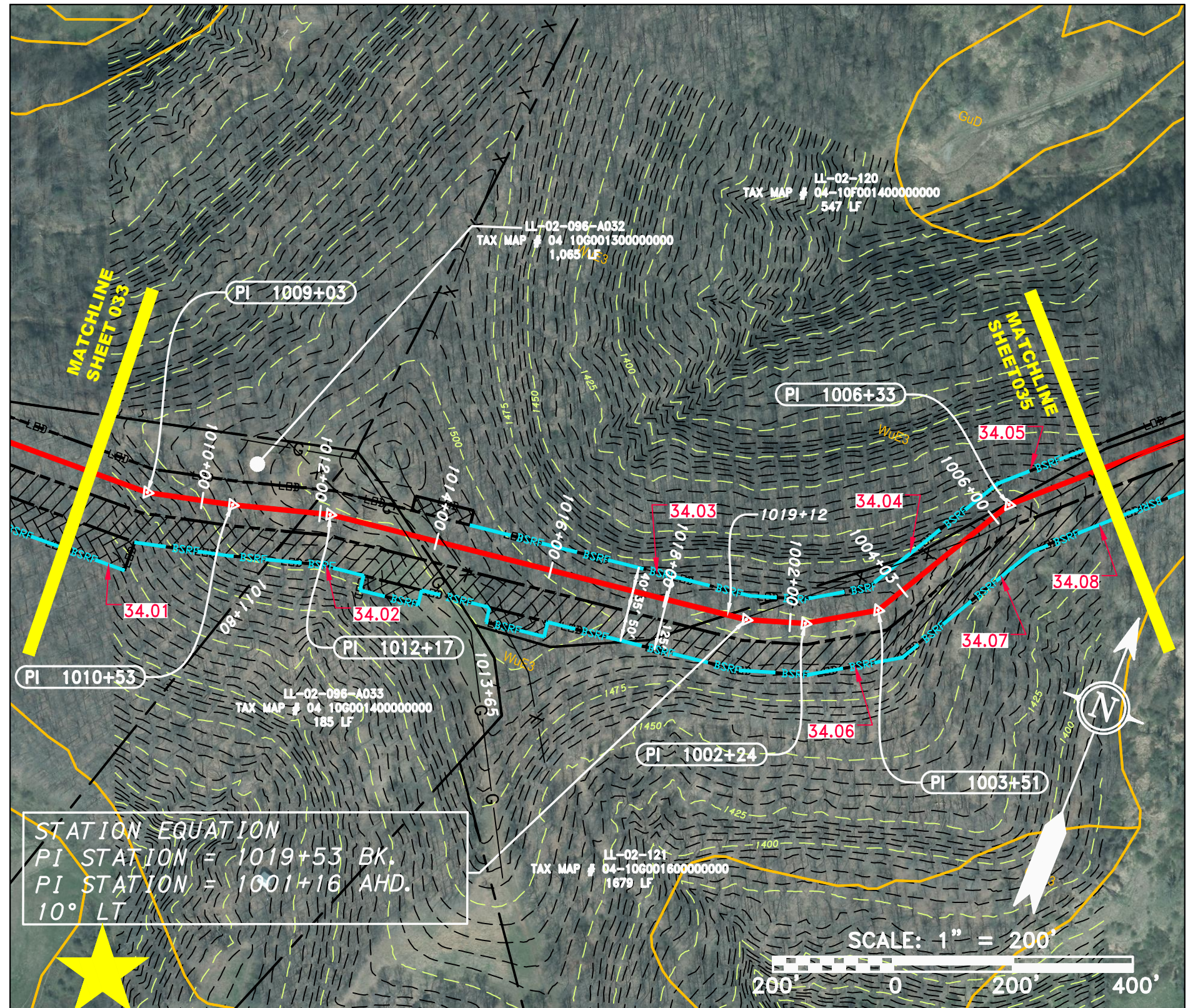
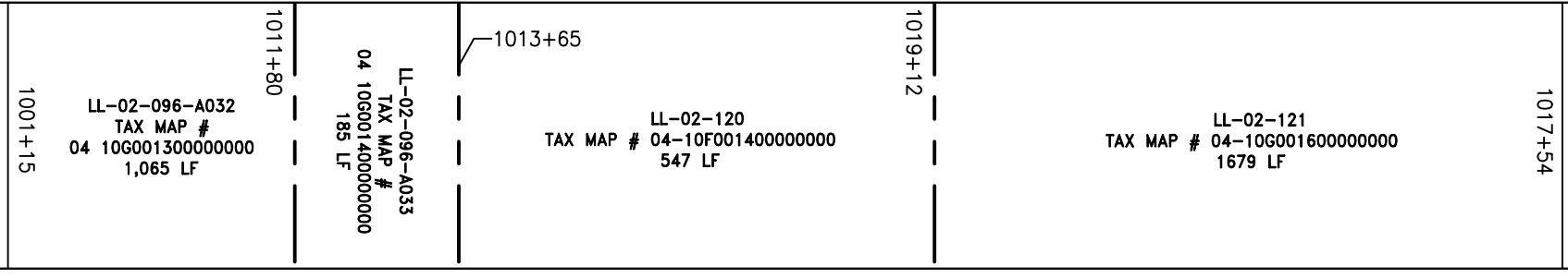
PROFILE VIEW  
HORZ: 1" = 200'  
VERT: 1" = 200'



STATIONING &  
CONSTRUCTION LIMITS

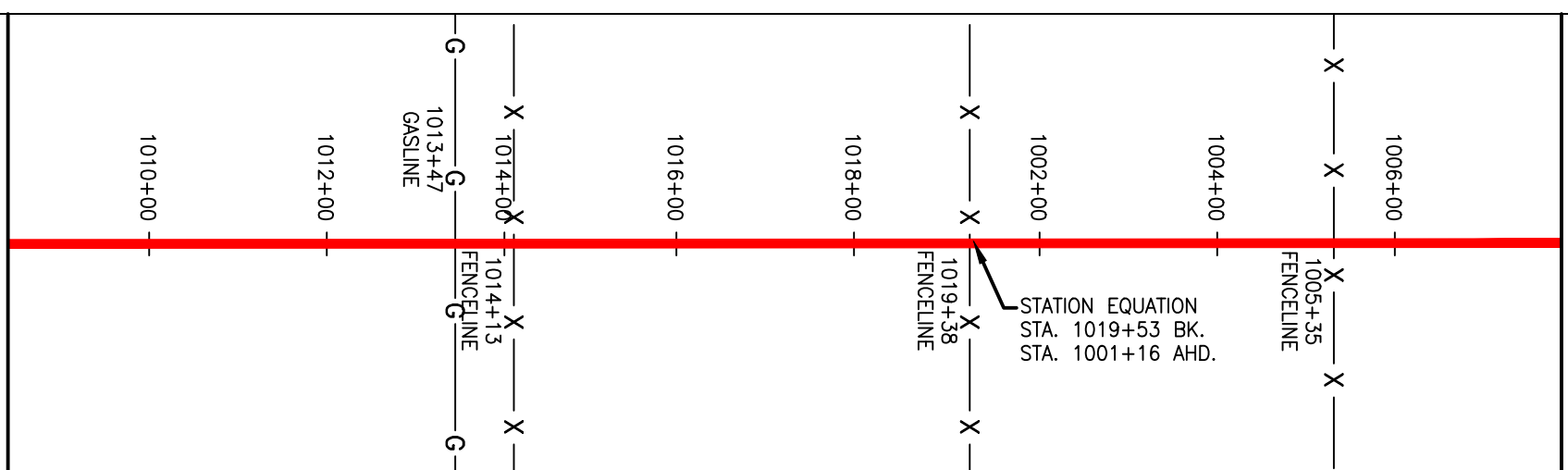


PROPERTY OWNERSHIP



PIPE SPECIFICATION

STRING VIEW BAND



**LEGEND**

— X — X —	PROPERTY LINE	— E —	STORM SEWER	[Hatched Box]	EXTRA WORK SPACE	[Hatched Box]	TOPSOIL SEGREGATION AREA
— W —	UNDERGROUND ELECTRIC	— W —	WATER LINE	[Dotted Box]	AREA OF NO DISTURBANCE	[Hatched Box]	PROPOSED TEMPORARY R.O.W.
— G — G —	EXISTING GAS PIPELINE	— SAN —	SANITARY SEWER	[Green Box]	WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)	[Circle]	UTILITY POLE
— OH —	OVERHEAD UTILITY LINES	—	EDGE OF GRAVEL	[Star]	NOTE: THE PE SEAL AND SIGNATURE APPLIES ONLY TO THE E&S CONTROL DESIGN COMPLETED BY ERM (SEE NOTE 12).	[Triangle]	PERMANENT WATERBAR/SLOPE BREAKER
—	ACCESS ROAD	—	PROPOSED PERMANENT EASEMENT	[Star]		[Triangle]	TEMPORARY WATERBAR/SLOPE BREAKER
—	PROPOSED GAS PIPELINE	—	PROPOSED GAS PIPELINE (NO GROUND SURVEY)	[Star]		[Triangle]	TRENCH BREAKER/PLUG

[Triangle]	TRENCH BREAKER/PLUG BLEEDER DRAIN AND OUTLET	[Line]	LOD	[Line]	LIMIT OF DISTURBANCE
[Triangle]	STREAM CROSSING	[Line]	BSRF	[Line]	BELTED SILT RETENTION FENCE (BSRF)
[Triangle]	USPWS STREAM CROSSING WITH ENHANCED CONTROLS	[Line]	SSF	[Line]	SUPER SILT FENCE
[Triangle]	SEEP	[Line]	111.03	[Line]	COMPOST FILTER SOCK
[Triangle]	CONSTRUCTION ENTRANCE WITH DITCH	[Line]	Soil Type	[Line]	SEDIMENT BARRIER IDENTIFICATION
[Triangle]	CULVERT/ WATERBAR	[Line]	Orange Safety Fence	[Line]	ROADSIDE DITCH
		[Line]	Soil Type	[Line]	TYPICAL BIC SLOPE CATEGORY SLOPE INCLINATION

**NOTES:**

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NO.	DATE	DWN.	CHKD.	APPROV.	DESCRIPTION



**ERM**

42" AP-1 PIPELINE  
CONSTRUCTION ALIGNMENT STA 1008+00 TO 1008+00  
LEWIS 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**

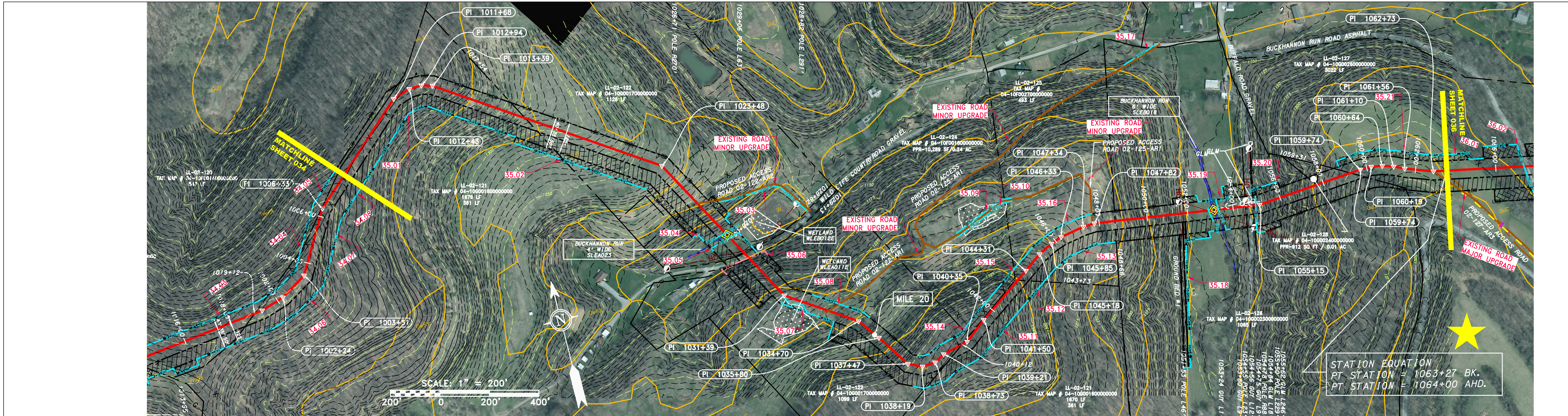
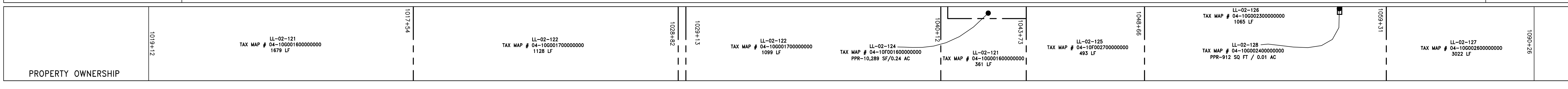
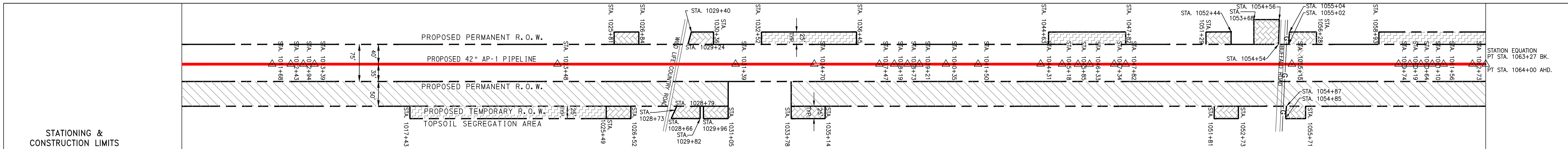
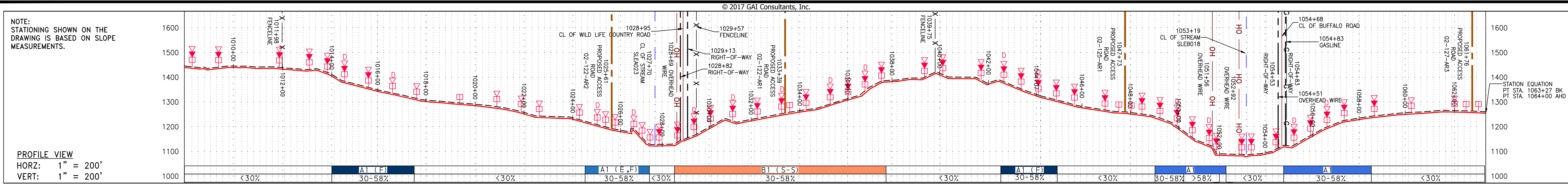
SOUTHPOINTE OFFICE  
6000 TOWN CENTER BLVD.  
CANONSBURG, PA 15317  
724-873-3545

**mbe**  
monahon basin engineers

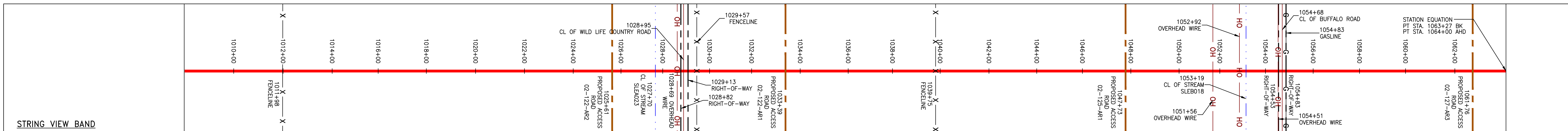
300 BUSINESS CENTER DRIVE  
PITTSBURGH, PA 15205  
412-788-2433

PROJECT NO./DASH NO.	140468
TASK NO. SUB TASK NO.	005 00
GROUP ID DRAWING NO.	D E034
034 OF 344	

J:\2665 - GAI\WORK ORDER 02 - SOUTHEAST PIPELINE (SECTION 1)\ALIGNMENT SHEETS\2665-2 PLAN SHEETS (35).DWG



PIPE SPECIFICATION NOT TO SCALE



LEGEND		NOTES:	
— X — X —	PROPERTY LINE	— E —	STORM SEWER
— W —	FENCE	— W —	UNDERGROUND ELECTRIC
— G — G —	STREAM	— S —	WATER LINE
— OH —	EXISTING GAS PIPELINE	— SAN —	SANITARY SEWER
—	OVERHEAD UTILITY LINES	—	EDGE OF GRAVEL
—	ACCESS ROAD	—	PROPOSED PERMANENT EASEMENT
—	PROPOSED GAS PIPELINE	—	PROPOSED GAS PIPELINE (NO GROUND SURVEY)
—	EXTRA WORK SPACE	—	TOPSOIL SEGREGATION AREA
—	AREA OF NO DISTURBANCE	—	PROPOSED TEMPORARY R.O.W.
—	WETLAND	—	UTILITY POLE
—	PERMANENT WATERBAR/SLOPE BREAKER	—	LIMIT OF DISTURBANCE
—	TEMPORARY WATERBAR/SLOPE BREAKER	—	BELTED SILT RETENTION FENCE (BSRF)
—	TRENCH BREAKER/PLUG	—	SUPER SILT FENCE
—	TRENCH BREAKER/PLUG BLEEDER	—	COMPOST FILTER SOCK
—	DRAIN AND OUTLET	—	SEDIMENT BARRIER IDENTIFICATION
—	STREAM CROSSING	—	ORANGE SAFETY FENCE
—	USFS W/ENHANCED CONTROLS	—	ROADSIDE DITCH
—	CONSTRUCTION ENTRANCE WITH DITCH	—	SOIL TYPE
—	CULVERT AS NEEDED	—	TYPICAL BIC SLOPE CATEGORY
—	CULVERT WATERBAR	—	SLOPE INCLINATION

REVISIONS		DESCRIPTION
NO.	DATE	

42" AP-1 PIPELINE  
CONSTRUCTION ALIGNMENT STA 1008+00 TO 1064+00  
LEWIS 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: JMS  
CHECKED: DLH  
APPROVED: NET

gai consultants

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

mbe  
monah basin  
engineers

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

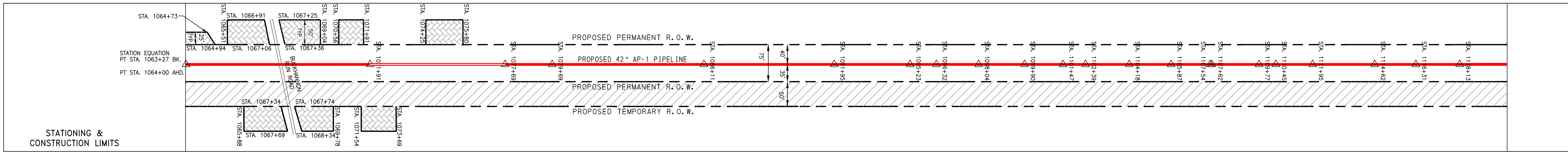
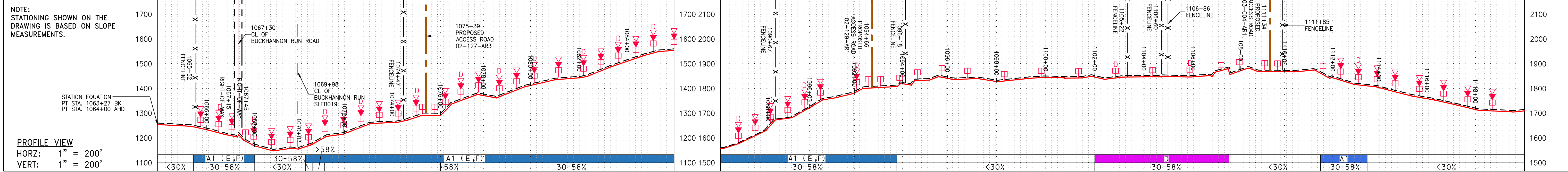
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140468

TASK NO. SUB TASK NO.  
005 00

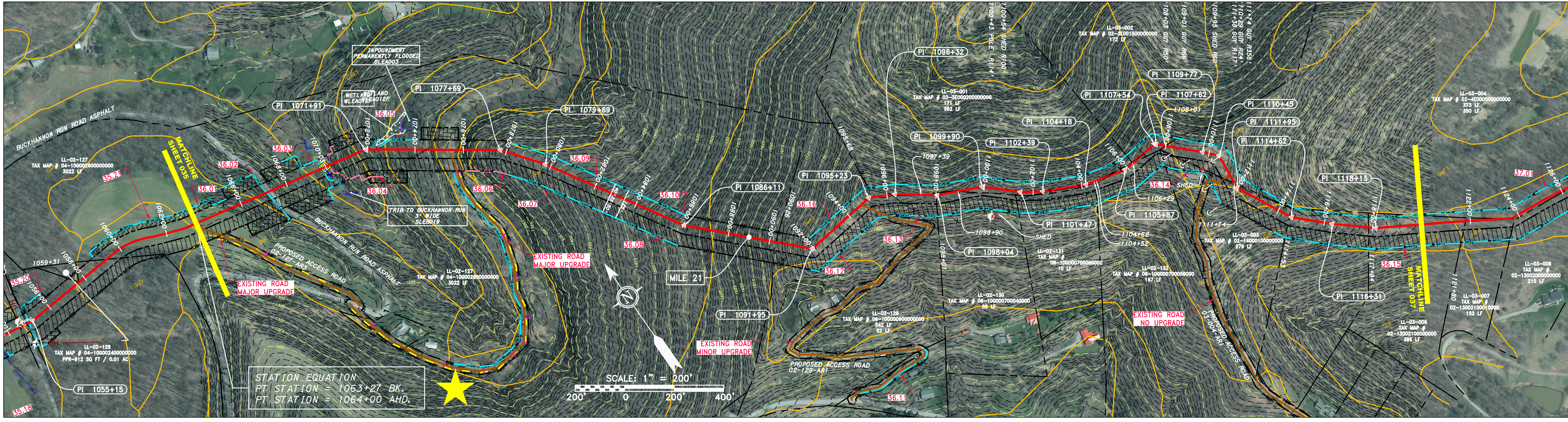
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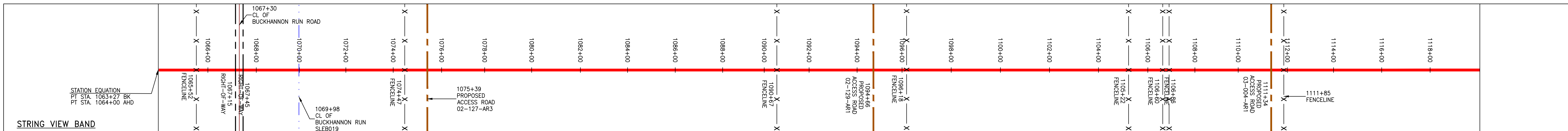
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Station Range	Property Owner	Tax Map #	Area (LF)
1064+00 - 1066+00	LL-02-127	04-100002600000000	3022 LF
1066+00 - 1067+00	LL-02-130	06-100000700040000	89 LF
1067+00 - 1068+00	LL-02-129	06-100000900000000	62 LF
1068+00 - 1069+00	LL-02-129	06-100000900000000	542 LF
1069+00 - 1070+00	LL-03-001	02-300020000000000	171 LF
1070+00 - 1071+00	LL-03-001	02-300020000000000	171 LF
1071+00 - 1072+00	LL-03-001	02-300020000000000	171 LF
1072+00 - 1073+00	LL-03-001	02-300020000000000	171 LF
1073+00 - 1074+00	LL-03-001	02-300020000000000	171 LF
1074+00 - 1075+00	LL-03-001	02-300020000000000	171 LF
1075+00 - 1076+00	LL-03-001	02-300020000000000	171 LF
1076+00 - 1077+00	LL-03-001	02-300020000000000	171 LF
1077+00 - 1078+00	LL-03-001	02-300020000000000	171 LF
1078+00 - 1079+00	LL-03-001	02-300020000000000	171 LF
1079+00 - 1080+00	LL-03-001	02-300020000000000	171 LF
1080+00 - 1081+00	LL-03-001	02-300020000000000	171 LF
1081+00 - 1082+00	LL-03-001	02-300020000000000	171 LF
1082+00 - 1083+00	LL-03-001	02-300020000000000	171 LF
1083+00 - 1084+00	LL-03-001	02-300020000000000	171 LF
1084+00 - 1085+00	LL-03-001	02-300020000000000	171 LF
1085+00 - 1086+00	LL-03-001	02-300020000000000	171 LF
1086+00 - 1087+00	LL-03-001	02-300020000000000	171 LF
1087+00 - 1088+00	LL-03-001	02-300020000000000	171 LF
1088+00 - 1089+00	LL-03-001	02-300020000000000	171 LF
1089+00 - 1090+00	LL-03-001	02-300020000000000	171 LF
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1091+00 - 1092+00	LL-03-001	02-300020000000000	171 LF
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1094+00 - 1095+00	LL-03-001	02-300020000000000	171 LF
1095+00 - 1096+00	LL-03-001	02-300020000000000	171 LF
1096+00 - 1097+00	LL-03-001	02-300020000000000	171 LF
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1101+00 - 1102+00	LL-03-001	02-300020000000000	171 LF
1102+00 - 1103+00	LL-03-001	02-300020000000000	171 LF
1103+00 - 1104+00	LL-03-001	02-300020000000000	171 LF
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1106+00 - 1107+00	LL-03-001	02-300020000000000	171 LF
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1108+00 - 1109+00	LL-03-001	02-300020000000000	171 LF
1109+00 - 1110+00	LL-03-001	02-300020000000000	171 LF
1110+00 - 1111+00	LL-03-001	02-300020000000000	171 LF
1111+00 - 1112+00	LL-03-001	02-300020000000000	171 LF
1112+00 - 1113+00	LL-03-001	02-300020000000000	171 LF
1113+00 - 1114+00	LL-03-001	02-300020000000000	171 LF
1114+00 - 1115+00	LL-03-001	02-300020000000000	171 LF
1115+00 - 1116+00	LL-03-001	02-300020000000000	171 LF
1116+00 - 1117+00	LL-03-001	02-300020000000000	171 LF
1117+00 - 1118+00	LL-03-001	02-300020000000000	171 LF
1118+00 - 1119+00	LL-03-001	02-300020000000000	171 LF
1119+00 - 1120+00	LL-03-001	02-300020000000000	171 LF
1120+00 - 1121+80	LL-03-006	02-150021000000000	396 LF



PIPE SPECIFICATION NOT TO SCALE



**LEGEND**

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

**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.
- BEST IN CLASS (BIC) STEEP SLOPE CATEGORY INFORMATION CAN BE FOUND IN THE APPENDIX OF THE STORMWATER POLLUTION PREVENTION PLAN.
- 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 2, 3 AND 4. ROADS IN CATEGORIES 1 AND 2 HAVE ADEQUATE EXISTING DRAINAGE; DRAINAGE FEATURES WILL BE PROVIDED FOR ROADS IN CATEGORIES 3 AND 4.
- ERM IS SOLELY RESPONSIBLE FOR THE NATURE AND LOCATION OF THE DEPICTED BMPs AS OF THE DATE SIGNED AND SEALED BASED ON THE SOURCE DATA PROVIDED AND AS DESCRIBED IN THE NOTES SECTION OF THE INDEX SHEET OF THIS PLAN SET.

**REVISIONS**

NO.	DATE	DWN.	CHKD.	APPD.	DESCRIPTION

**Professional Engineer Seal:** JAMES A. HEMMINGER, REGISTERED PROFESSIONAL ENGINEER, STATE OF WEST VIRGINIA, No. 12195, Exp. 03/17.

**ERM**

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

**CONSTRUCTION ALIGNMENT STA 1064+00 TO 1120+00**  
 LEWIS & UPSHUR COUNTIES, WEST VIRGINIA

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

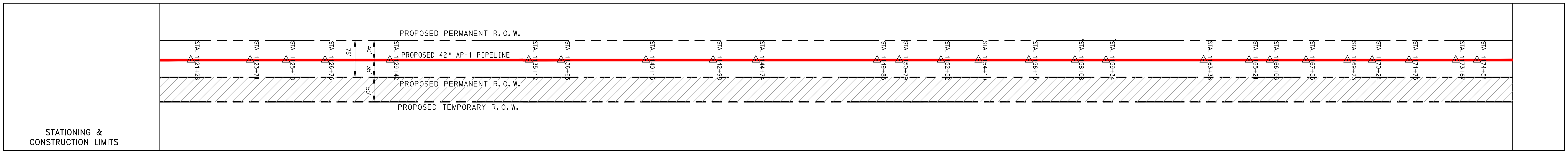
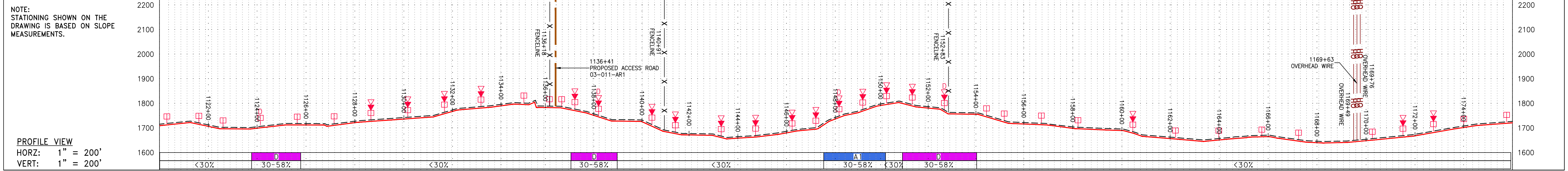
**gai consultants**  
 SOUTHPOINTE OFFICE  
 6000 TOWN CENTER BLVD.  
 CANONSBURG, PA 15317  
 724-873-3545

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

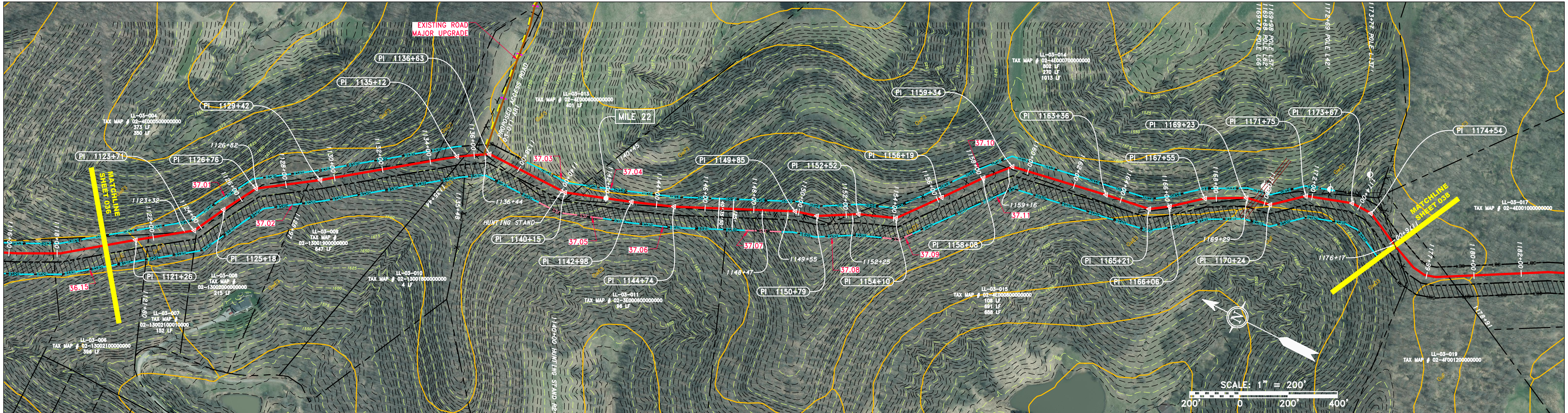
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**TASK NO. SUB TASK NO. 005 00**  
**GROUP ID DRAWING NO. D E036**  
**036 OF 344**

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J:\2665 - GAI\WORK ORDER 02 - SOUTHEAST PIPELINE (SECTION 1)\ALIGNMENT SHEETS\2665-2 PLAN SHEETS (36).DWG



Stationing	Property Owner	Tax Map	Area
1117+84	LL-03-006	TAX MAP # 02-13002100000000	396 LF
1121+80	LL-03-004	TAX MAP # 02-4E00050000000000	350 LF
1123+32	LL-03-007	TAX MAP # 02-13002100000000	152 LF
1128+97	LL-03-009	TAX MAP # 02-13001900000000	647 LF
1135+44	LL-03-010	TAX MAP # 02-13001800000000	4 LF
1136+44	LL-03-013	TAX MAP # 02-4E00060000000000	401 LF
1138+44	LL-03-011	TAX MAP # 02-3E00060000000000	96 LF
1140+45	LL-03-014	TAX MAP # 02-4E00070000000000	802 LF
1148+47	LL-03-015	TAX MAP # 02-4E00080000000000	108 LF
1149+55	LL-03-014	TAX MAP # 02-4E00070000000000	270 LF
1152+25	LL-03-015	TAX MAP # 02-4E00080000000000	691 LF
1159+16	LL-03-014	TAX MAP # 02-4E00070000000000	1013 LF
1169+29	LL-03-015	TAX MAP # 02-4E00080000000000	688 LF
1176+17	LL-03-015	TAX MAP # 02-4E00080000000000	688 LF



PIPE SPECIFICATION

42" AP-1 PIPELINE	CONSTRUCTION ALIGNMENT STA 1120+00 TO 1176+00
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**LEGEND**

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

**NOTES:**

- COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY - UTM WITH NAD83 DATUM, ZONE 17, US SURVEY FOOT, CENTRAL MERIDIAN 81° W. CONTOURS AND TOPOGRAPHIC FEATURES WERE DERIVED FROM LIDAR DATA AND GPS SUB-METER GROUND SURVEY PERFORMED BY GAI CONSULTANTS, INC FROM 11-03-2014 THRU 11-07-2014.
- 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.
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- EROSION AND SEDIMENTATION CONTROL ELEMENTS MAY BE SHOWN OUTSIDE OF THE WORK AREAS FOR CLARITY ONLY. ACTUAL INSTALLATION SHALL BE WITHIN THE WORK AREAS.
- 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 GROUDED INTO FOUR CATEGORIES: 1) EXISTING ROADS NO IMPROVEMENTS, 2) EXISTING ROADS MINOR IMPROVEMENTS, 3) EXISTING ROADS MAJOR IMPROVEMENTS AND 4) NEW ROADS. APPROPRIATE EROSION AND SEDIMENT CONTROLS WILL BE PROVIDED FOR ROADS IN CATEGORIES 2, 3 AND 4. ROADS IN CATEGORIES 1 AND 2 HAVE ADEQUATE EXISTING DRAINAGE; DRAINAGE FEATURES WILL BE PROVIDED FOR ROADS IN CATEGORIES 3 AND 4.
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**REVISIONS**

NO.	DATE	DWN.	CHKD.	APPD.	DESCRIPTION

**ERM**

**JAMES A. HEMMEL**  
REGISTERED PROFESSIONAL ENGINEER  
12195  
03/17  
STATE OF WEST VIRGINIA

42" AP-1 PIPELINE  
CONSTRUCTION ALIGNMENT STA 1120+00 TO 1176+00  
UPSHUR 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 BLD.  
CANONSBURG, PA 15317  
724-873-3545

**mbe monahon basin engineers**

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

PROJECT NO./DASH NO.  
140468

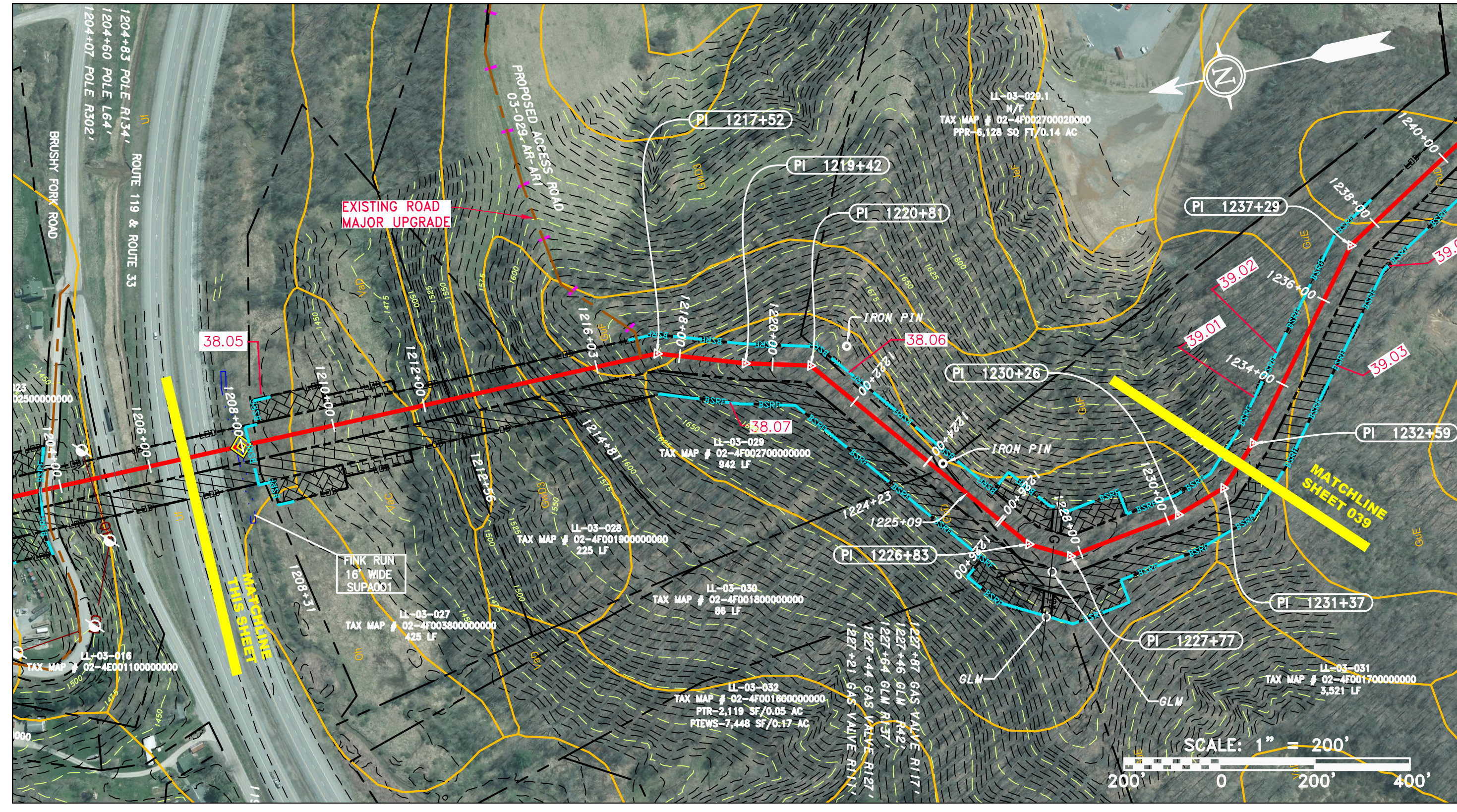
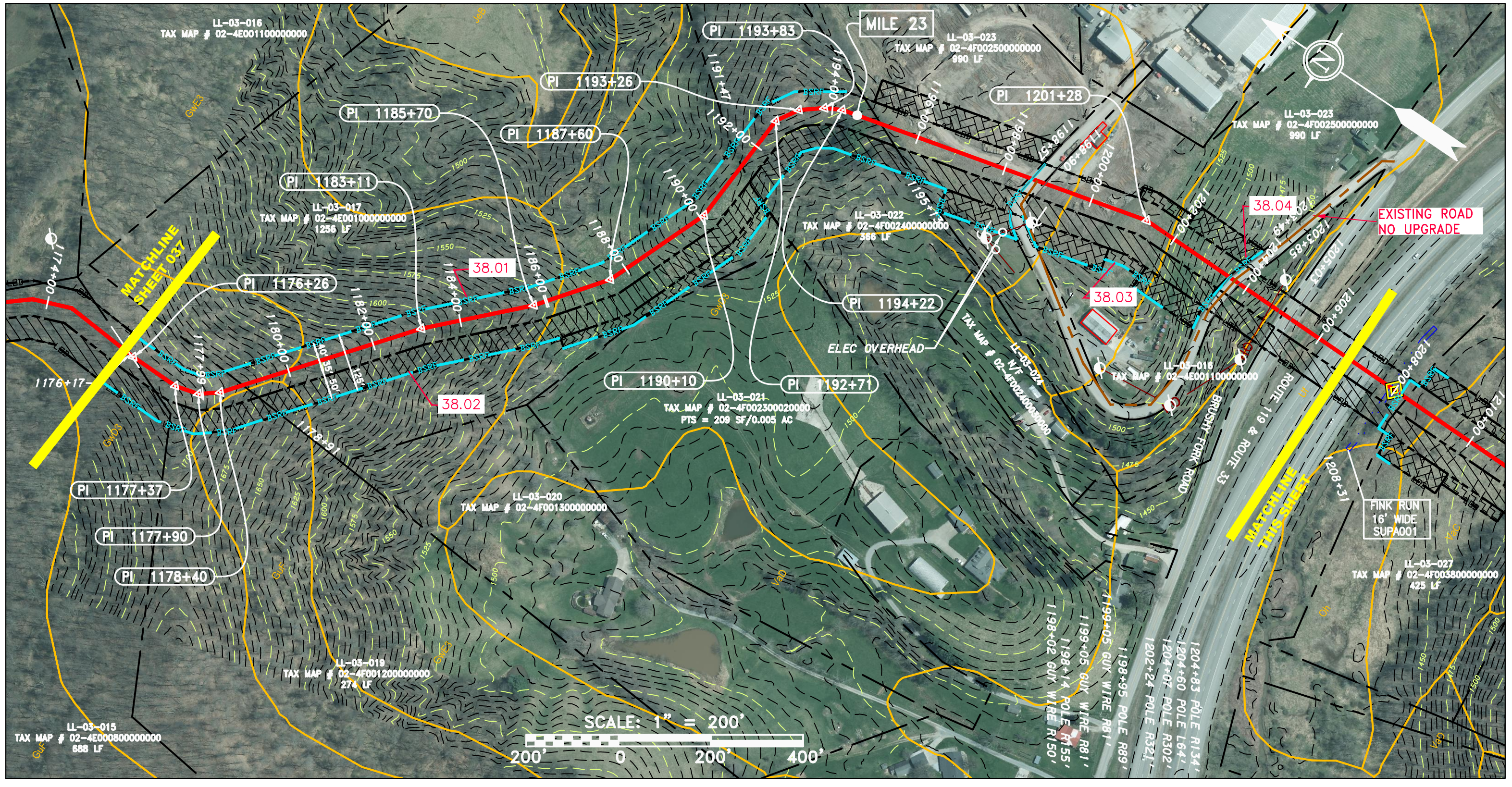
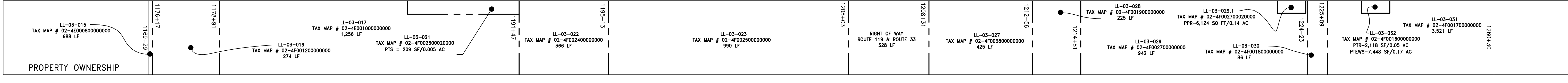
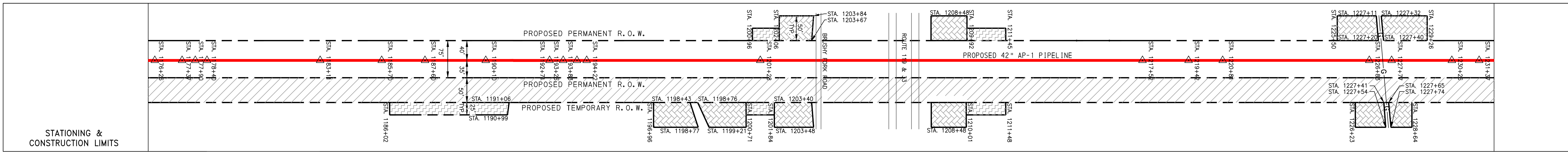
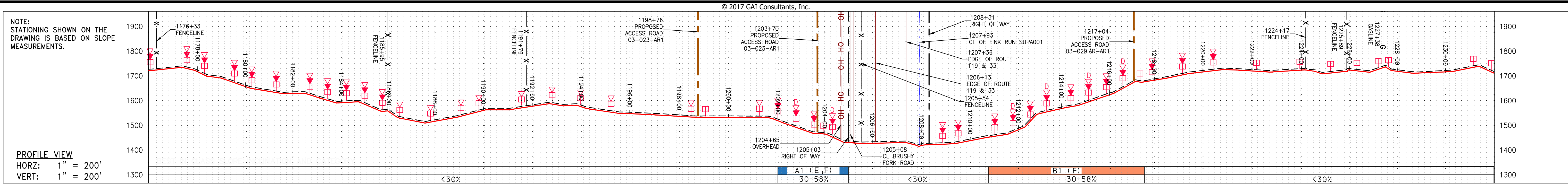
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GROUP ID DRAWING NO.  
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037 OF 344

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J:\2665 - GAI\WORK ORDER 02 - SOUTHEAST PIPELINE (SECTION 1)\ALIGNMENT SHEETS\2665-2 PLAN SHEETS (38).DWG



PIPE SPECIFICATION

1176+33 FENCELINE	1181+00	1182+00	1183+00	1184+00	1185+00	1186+00	1187+00	1188+00	1189+00	1190+00	1191+00	1192+00	1193+00	1194+00	1195+00	1196+00	1197+00	1198+00	1199+00	1200+00	1201+00	1202+00	1203+00	1204+00	1205+00	1206+00	1207+00	1208+00	1209+00	1210+00	1211+00	1212+00	1213+00	1214+00	1215+00	1216+00	1217+00	1218+00	1219+00	1220+00	1221+00	1222+00	1223+00	1224+00	1225+00	1226+00	1227+00	1228+00	1229+00	1230+00	1231+00	1232+00
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**LEGEND**

	PROPERTY LINE		STORM SEWER		EXTRA WORK SPACE		TOPSOIL SEGREGATION AREA
	FENCE		UNDERGROUND ELECTRIC		AREA OF NO DISTURBANCE		PROPOSED TEMPORARY R.O.W.
	STREAM		WATER LINE		WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)		UTILITY POLE
	EXISTING GAS PIPELINE		SANITARY SEWER				
	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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NO.	DATE	DWN.	CHKD.	APPD.	DESCRIPTION

**42" AP-1 PIPELINE**  
 CONSTRUCTION ALIGNMENT STA 1176+00 TO 1232+00  
 UPSHUR COUNTY, WEST VIRGINIA

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

SCALE: AS SHOWN  
 DATE: 02/22/17  
 DRAWN: GOS  
 CHECKED: DLH  
 APPROVED: NET

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

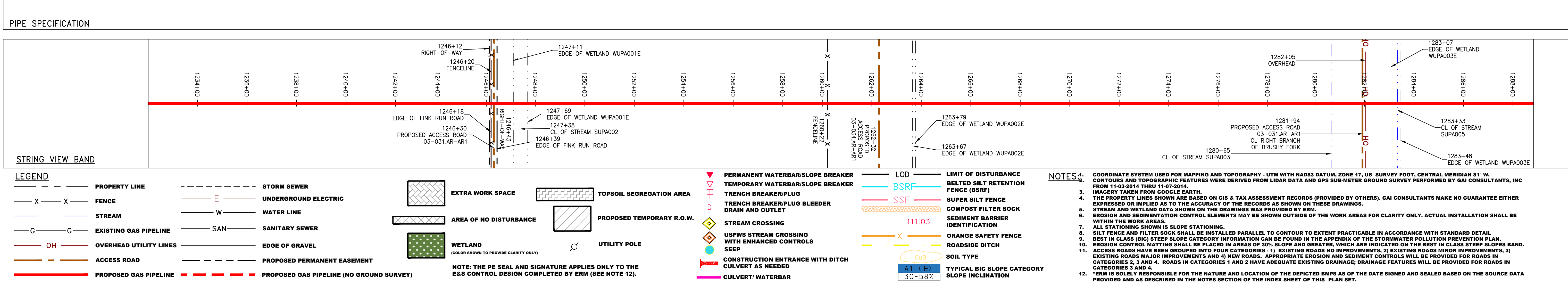
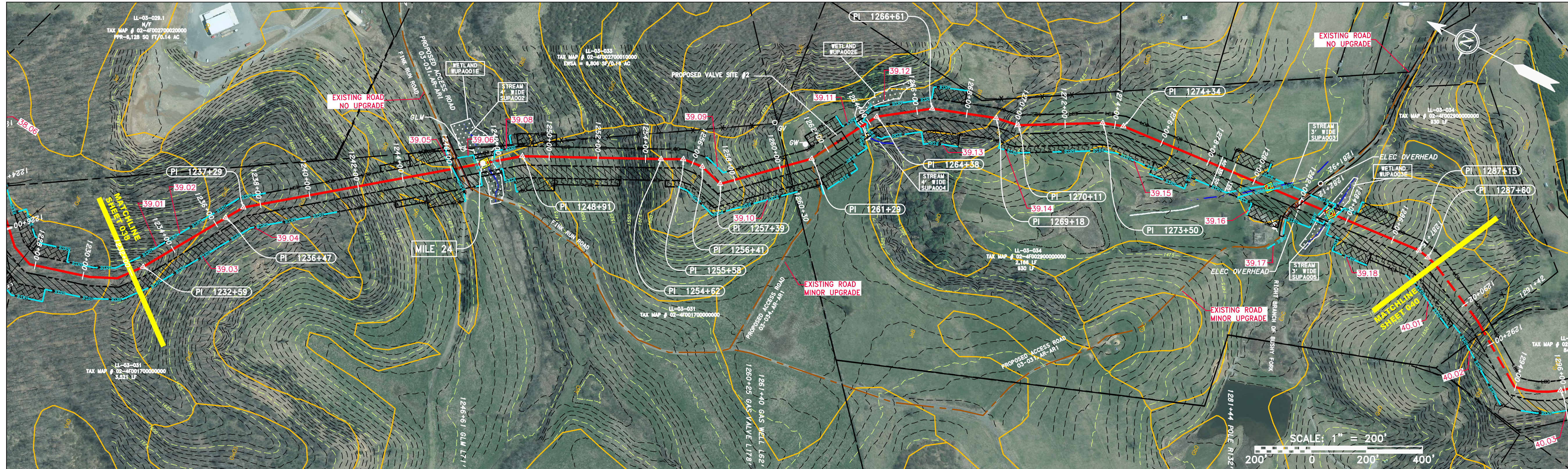
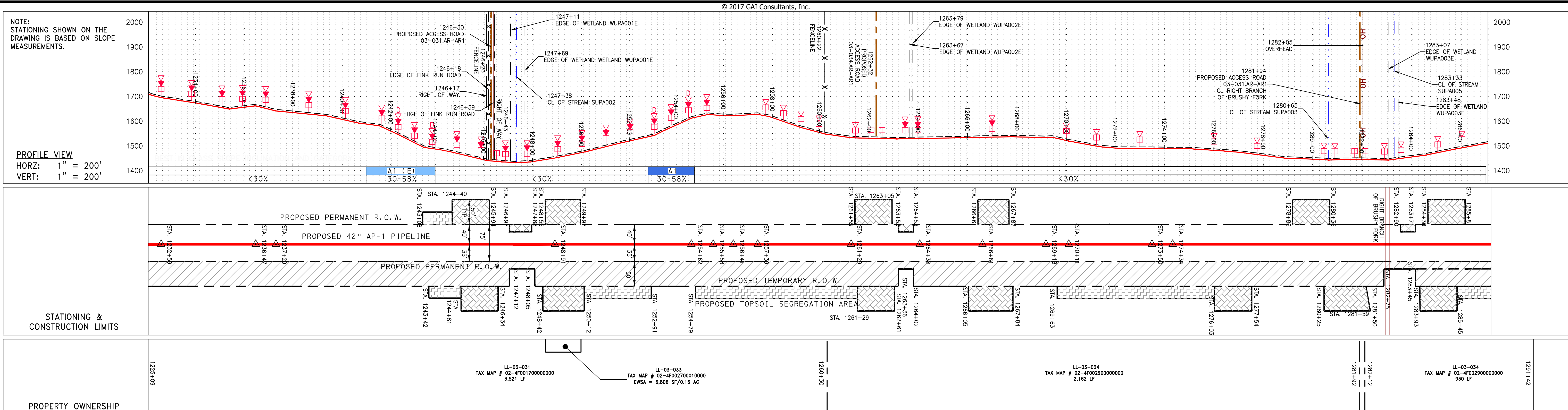
300 BUSINESS CENTER DRIVE  
 PITTSBURGH, PA 15205  
 412-788-2433

PROJECT NO./DASH NO.  
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 005 00  
 GROUP ID DRAWING NO.  
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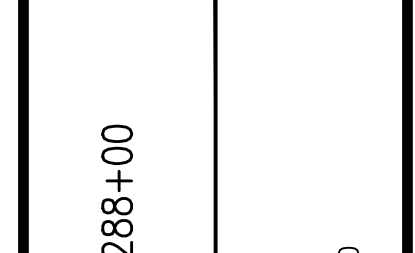
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J:\2665 - GAI\WORK ORDER 02 - SOUTHEAST PIPELINE (SECTION 1)\ALIGNMENT SHEETS\2665-2 PLAN SHEETS (39).DWG



NO.	DATE	DWN.	CHKD.	APPVD.	DESCRIPTION



ERM

42" AP-1 PIPELINE  
CONSTRUCTION ALIGNMENT STA 1232+00 TO 1288+00  
UPSHUR COUNTY, WEST VIRGINIA

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

SCALE: AS SHOWN  
DATE: 2/22/2017  
DRAWN: GOS  
CHECKED: DLH  
APPROVED: NET



SOUTHPOINTE OFFICE  
8000 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 E039
039 OF 344	

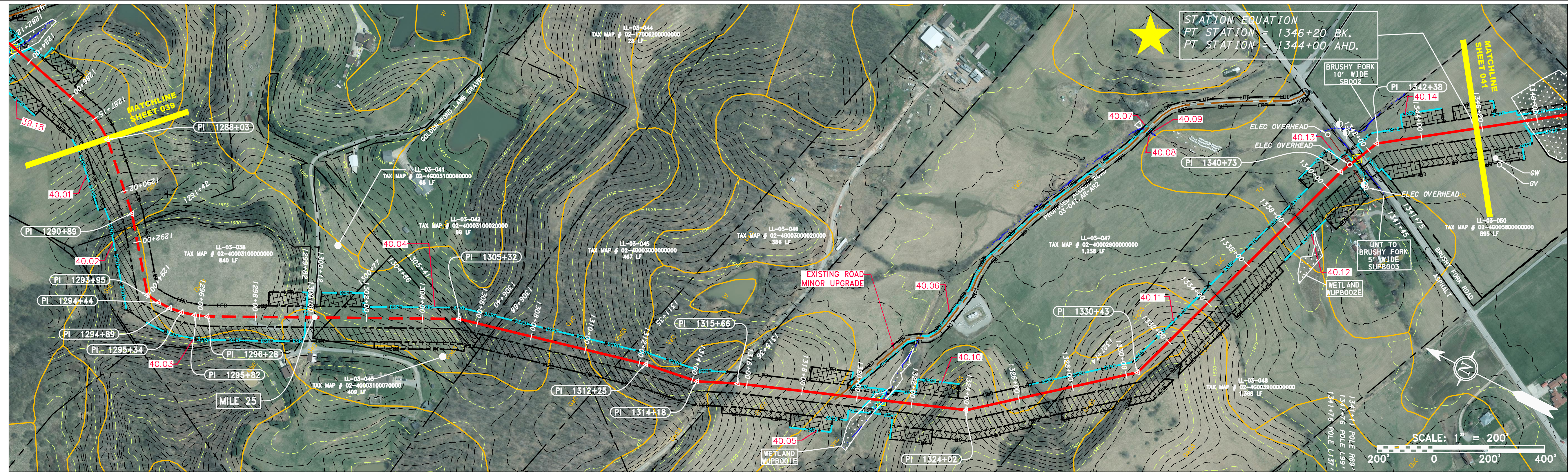
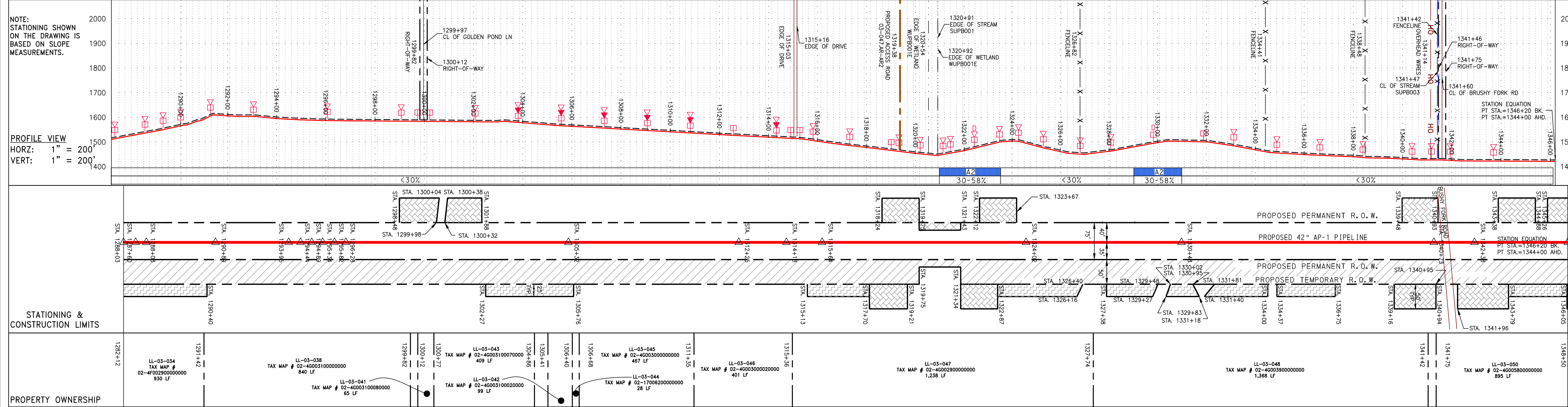
5/31/2017 2:16 PM

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

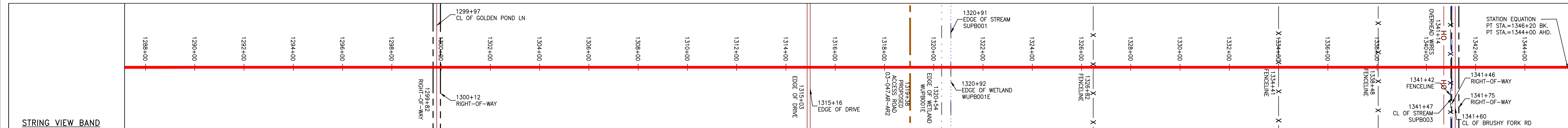
PROFILE VIEW  
 HORZ: 1" = 200'  
 VERT: 1" = 200'

STATIONING & CONSTRUCTION LIMITS

PROPERTY OWNERSHIP



PIPE SPECIFICATION



<p><b>LEGEND</b></p> <ul style="list-style-type: none"> <li>— PROPERTY LINE</li> <li>X X FENCE</li> <li>G G EXISTING GAS PIPELINE</li> <li>OH OVERHEAD UTILITY LINES</li> <li>ACCESS ROAD</li> <li>PROPOSED GAS PIPELINE</li> <li>PROPOSED GAS PIPELINE (NO GROUND SURVEY)</li> <li>STORM SEWER</li> <li>UNDERGROUND ELECTRIC</li> <li>WATER LINE</li> <li>SANITARY SEWER</li> <li>EDGE OF GRAVEL</li> <li>PROPOSED PERMANENT EASEMENT</li> <li>PROPOSED GAS PIPELINE (NO GROUND SURVEY)</li> <li>EXTRA WORK SPACE</li> <li>AREA OF NO DISTURBANCE</li> <li>WETLAND</li> <li>TOPSOIL SEGREGATION AREA</li> <li>PROPOSED TEMPORARY R.O.W.</li> <li>UTILITY POLE</li> </ul>	<p><b>NOTES:</b></p> <ol style="list-style-type: none"> <li>COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY - UTM WITH NAD83 DATUM, ZONE 17, US SURVEY FOOT, CENTRAL MERIDIAN 81° W.</li> <li>CONTOURS AND TOPOGRAPHIC FEATURES WERE DERIVED FROM LIDAR DATA AND GPS SUB-METER GROUND SURVEY PERFORMED BY GAI CONSULTANTS, INC. FROM 11-03-2014 TO 11-07-2014.</li> <li>IMAGERY TAKEN FROM GOOGLE EARTH.</li> <li>THE PROPERTY LINES SHOWN ARE BASED ON GIS &amp; 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.</li> <li>STREAM AND WETLAND DATA SHOWN ON THE DRAWINGS WAS PROVIDED BY ERM.</li> <li>EROSION AND SEDIMENTATION CONTROL ELEMENTS MAY BE SHOWN OUTSIDE OF THE WORK AREAS FOR CLARITY ONLY. ACTUAL INSTALLATION SHALL BE WITHIN THE WORK AREAS.</li> <li>ALL STATIONING SHOWN IS SLOPE STATIONING.</li> <li>SILT FENCE AND FILTER SOCK SHALL BE INSTALLED PARALLEL TO CONTOUR TO EXTENT PRACTICABLE IN ACCORDANCE WITH STANDARD DETAIL.</li> <li>BEST IN CLASS (BIC) STEEP SLOPE CATEGORY INFORMATION CAN BE FOUND IN THE APPENDIX OF THE STORMWATER POLLUTION PREVENTION PLAN.</li> <li>EROSION CONTROL MATTING SHALL BE PLACED IN AREAS OF 30% SLOPE AND GREATER, WHICH ARE INDICATED ON THE BEST IN CLASS STEEP SLOPES BAND.</li> <li>ACCESS ROADS HAVE BEEN GROUPED INTO FOUR CATEGORIES: 1) EXISTING ROADS MINOR IMPROVEMENTS, 2) EXISTING ROADS MAJOR 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.</li> <li>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.</li> </ol>
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NO.	DATE	CHKD.	APPD.	DESCRIPTION

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

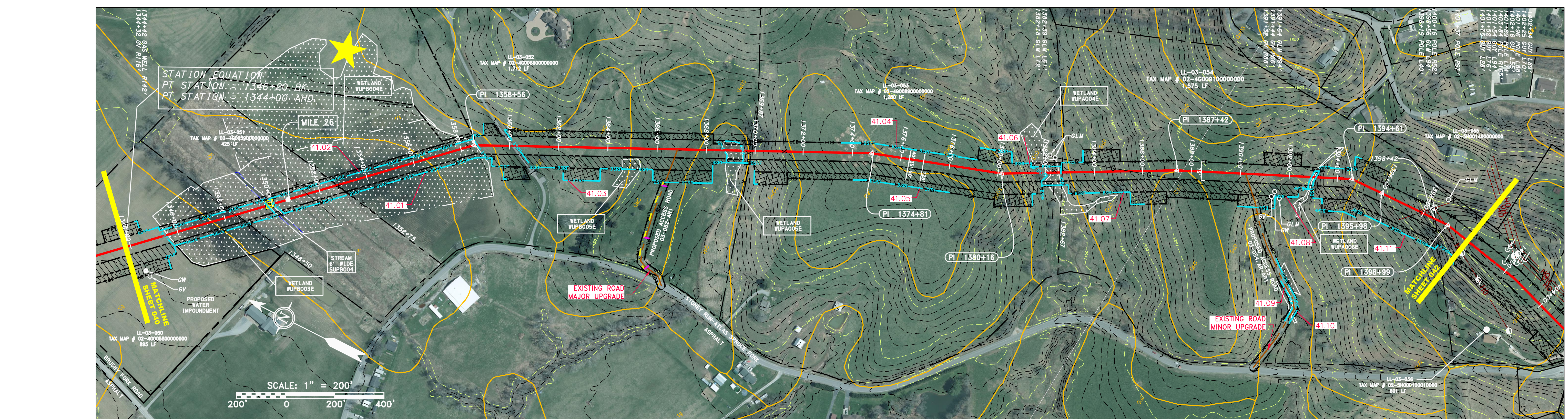
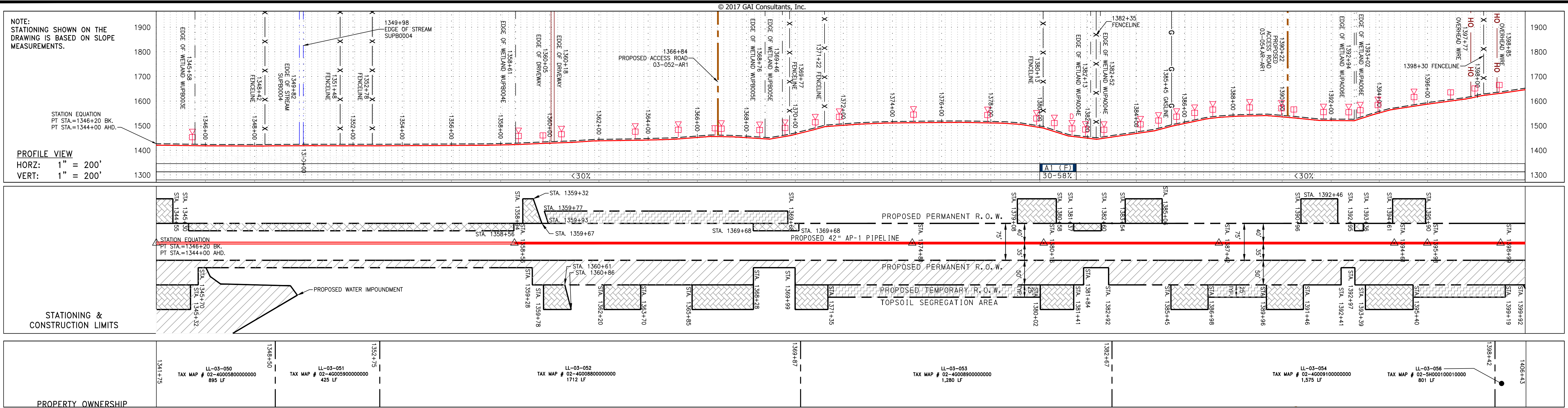
SCALE: AS SHOWN  
 DATE: 5/31/17  
 DRAWN: GOS  
 CHECKED: DLH  
 APPROVED: NET

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

PROJECT NO./DASH NO.	140468
TASK NO. / SUB TASK NO.	005 / 00
GROUP ID / DRAWING NO.	D / E040
040 OF 344	

J:\2665 -GAI\WORK ORDER 02 - SOUTHEAST PIPELINE (SECTION 1)\ALIGNMENT SHEETS\2665-2 PLAN SHEETS (40).DWG

J:\2665 - GAI\WORK ORDER 02 - SOUTHEAST PIPELINE (SECTION 1)\ALIGNMENT SHEETS\2665-2 PLAN SHEETS (41).DWG



**PIPE SPECIFICATION**

1345+58	EDGE OF WETLAND WUPBOO3E	1346+00	1349+82	EDGE OF STREAM SUPB004 & WETLAND WUPBOO3E	1350+00	1352+00	1353+75	1358+56	1359+00	1360+00	1366+84	PROPOSED ACCESS ROAD 03-052-AR1	1369+00	1370+00	1371+00	1372+00	1373+00	1374+00	1375+00	1376+00	1377+00	1378+00	1380+00	1381+00	1382+00	1383+00	1384+00	1385+00	1386+00	1387+00	1388+00	1389+00	1390+00	1391+00	1392+00	1393+00	1394+00	1395+00	1396+00	1397+00	1398+00	1399+00	1400+00	1401+00	1402+00	1403+00	1404+00	1405+00	1406+43
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**LEGEND**

--- X --- X ---	PROPERTY LINE	--- E ---	STORM SEWER	--- W ---	UNDERGROUND ELECTRIC	--- G --- G ---	EXISTING GAS PIPELINE	--- OH ---	OVERHEAD UTILITY LINES	---	ACCESS ROAD	---	PROPOSED PERMANENT EASEMENT	---	PROPOSED GAS PIPELINE (NO GROUND SURVEY)	--- X --- X ---	FENCE	---	STREAM	---	WETLAND	---	EXTRA WORK SPACE	---	TOPSOIL SEGREGATION AREA	---	AREA OF NO DISTURBANCE	---	PROPOSED TEMPORARY R.O.W.	---	UTILITY POLE	---	WETLAND	---	PERMANENT WATERBAR/SLOPE BREAKER	---	TEMPORARY WATERBAR/SLOPE BREAKER	---	TRENCH BREAKER/PLUG	---	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	---	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	---
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**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 SURVEY DATA PERFORMED BY GAI CONSULTANTS, INC. FROM 11-03-2014 THRU 11-07-2014.
- 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 PLAN.
- EXISTING ROADS HAVE BEEN GROUPED INTO FOUR CATEGORIES - 1) EXISTING ROADS WITH MINOR IMPROVEMENTS, 2) EXISTING ROADS WITH MAJOR IMPROVEMENTS AND 3) NEW ROADS. APPROPRIATE EROSION AND SEDIMENT CONTROLS WILL BE PROVIDED FOR ROADS IN CATEGORIES 2, 3 AND 4. ROADS IN CATEGORIES 1 AND 2 HAVE ADEQUATE EXISTING DRAINAGE; DRAINAGE FEATURES WILL BE PROVIDED FOR ROADS IN CATEGORIES 3 AND 4.
- ERM IS SOLELY RESPONSIBLE FOR THE NATURE AND LOCATION OF THE DEPICTED BMPs AS OF THE DATE SIGNED AND SEALED BASED ON THE SOURCE DATA PROVIDED AND AS DESCRIBED IN THE NOTES SECTION OF THE INDEX SHEET OF THIS PLAN SET.

REVISIONS	
NO.	DESCRIPTION

**42" AP-1 PIPELINE**  
**CONSTRUCTION ALIGNMENT STA 1346+00 TO 1400+00**  
 UPSHUR 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

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

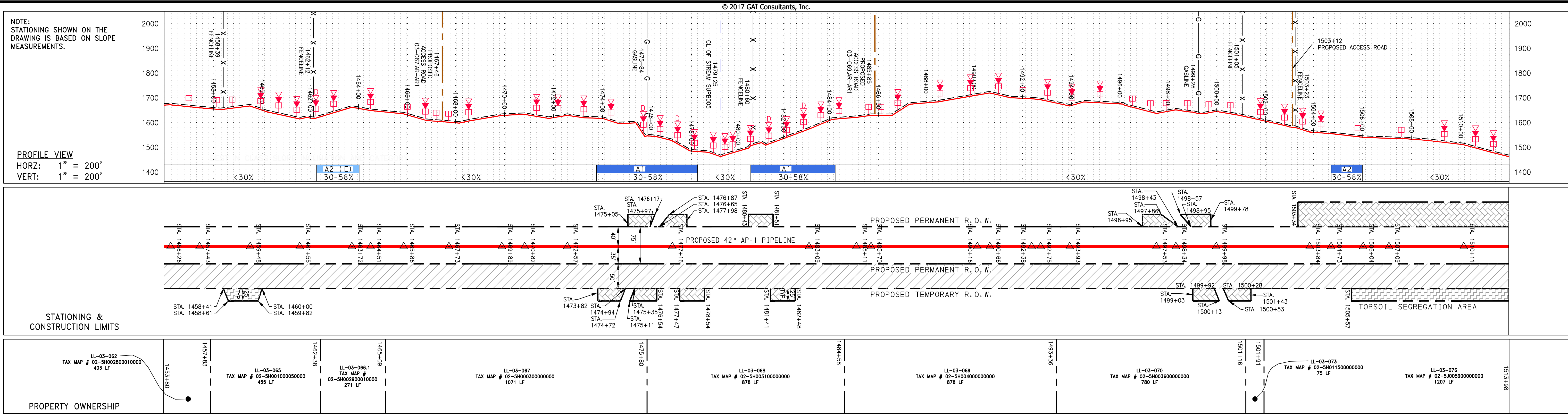
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041 OF 344

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J:\2665 - GAI\WORK ORDER 02 - SOUTHEAST PIPELINE (SECTION 1)\ALIGNMENT SHEETS\2665-2 PLAN SHEETS (43).DWG



REVISIONS		DESCRIPTION
NO.	DATE	DWN.
CHKD.	APPD.	

**ERM**

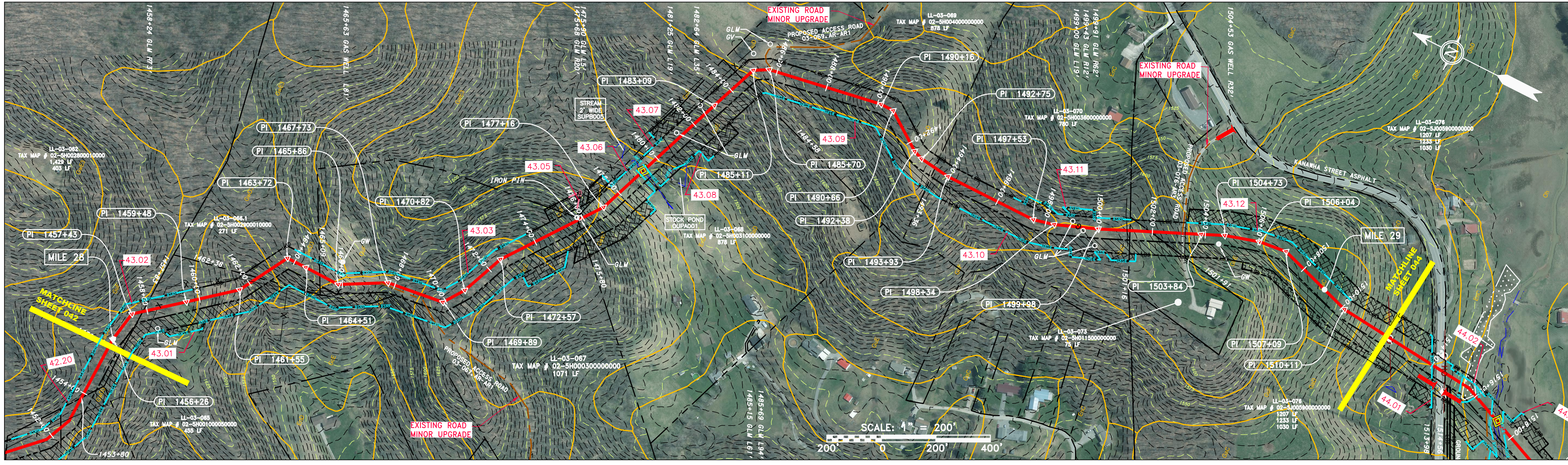
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PROJECT NO./DASH NO.  
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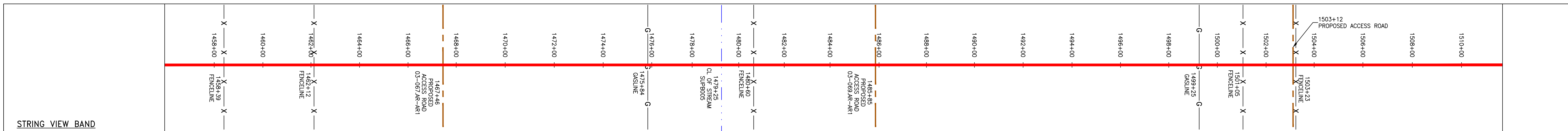
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GROUP ID DRAWING NO.  
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043 OF 344



PIPE SPECIFICATION

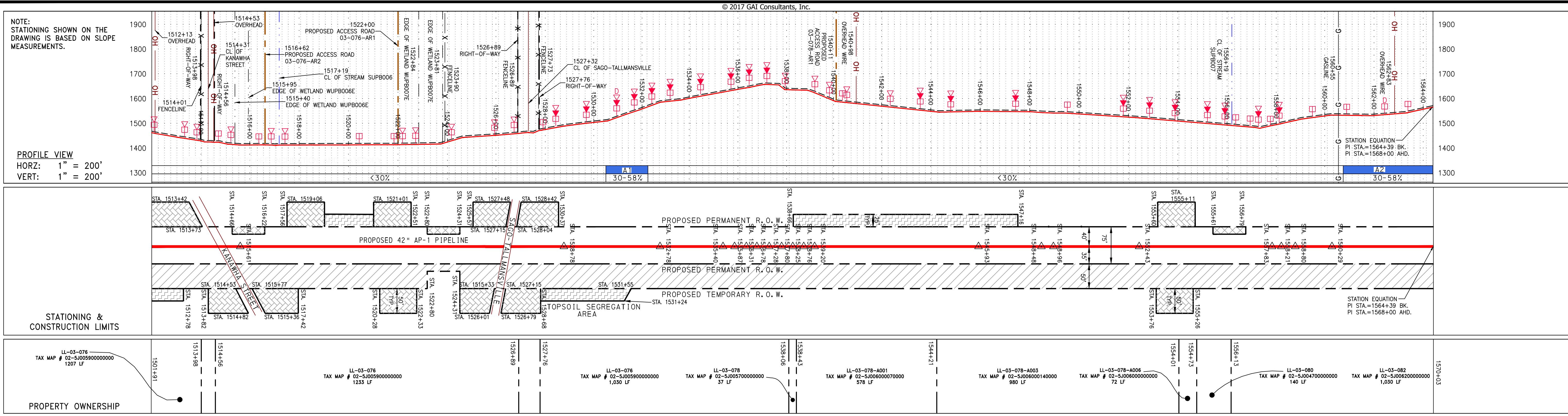


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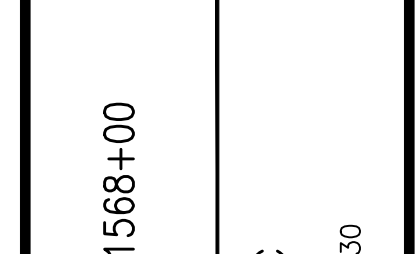
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— X — X —	FENCE	— W —	WATER LINE	— S —	SANITARY SEWER	— G —	EXISTING GAS PIPELINE	— OH —	OVERHEAD UTILITY LINES	— A —	ACCESS ROAD	— P —	PROPOSED GAS PIPELINE	— P —	PROPOSED GAS PIPELINE (NO GROUND SURVEY)
— G —	STREAM	— S —	SANITARY SEWER	— G —	EXISTING GAS PIPELINE	— OH —	OVERHEAD UTILITY LINES	— A —	ACCESS ROAD	— P —	PROPOSED GAS PIPELINE	— P —	PROPOSED GAS PIPELINE (NO GROUND SURVEY)		
— G —	EXISTING GAS PIPELINE	— OH —	OVERHEAD UTILITY LINES	— A —	ACCESS ROAD	— P —	PROPOSED GAS PIPELINE	— P —	PROPOSED GAS PIPELINE (NO GROUND SURVEY)						

**NOTES:**  
 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.  
 2. BEST IN CLASS (BIC) STEEP SLOPE CATEGORY INFORMATION CAN BE FOUND IN THE APPENDIX OF THE STORMWATER POLLUTION PREVENTION PLAN.  
 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 ON THESE DRAWINGS.  
 4. STREAM AND WETLAND DATA SHOWN ON THE DRAWINGS WAS PROVIDED BY ERM.  
 5. EROSION AND SEDIMENTATION CONTROL ELEMENTS MAY BE SHOWN OUTSIDE OF THE WORK AREAS FOR CLARITY ONLY. ACTUAL INSTALLATION SHALL BE WITHIN THE WORK AREAS.  
 6. ALL STATIONING SHOWN IS SLOPE STATIONING.  
 7. SILT FENCE AND FILTER SOCK SHALL BE INSTALLED PARALLEL TO CONTOUR TO EXTENT PRACTICABLE IN ACCORDANCE WITH STANDARD DETAIL.  
 8. 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. EXISTING ROADS HAVE BEEN GROUPED INTO FOUR CATEGORIES: 1) EXISTING ROADS NO IMPROVEMENTS, 2) EXISTING ROADS MINOR IMPROVEMENTS, 3) EXISTING ROADS MAJOR IMPROVEMENTS AND 4) NEW ROADS. APPROPRIATE EROSION AND SEDIMENT CONTROLS 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. 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.

J:\2665 - GAI\WORK ORDER 02 - SOUTHEAST PIPELINE (SECTION 1)\ALIGNMENT SHEETS\2665-2 PLAN SHEETS (44).DWG



NO.	DATE	DWN.	CHKD.	APPD.	DESCRIPTION



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

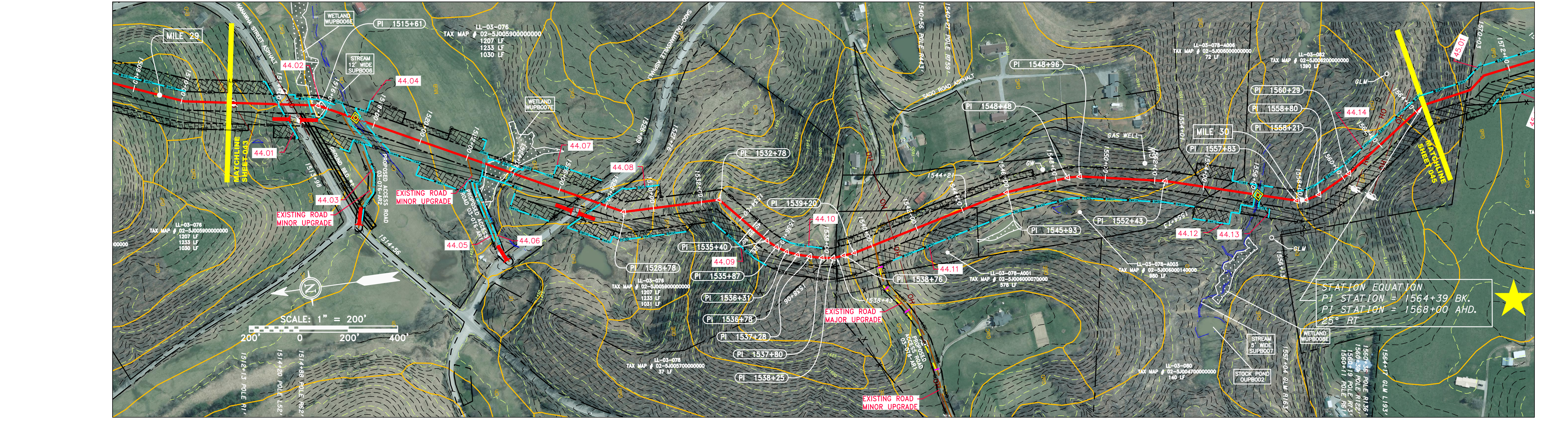
SCALE: AS SHOWN  
 DATE: 5/31/17  
 DRAWN: CLM  
 CHECKED: DLH  
 APPROVED: NET

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

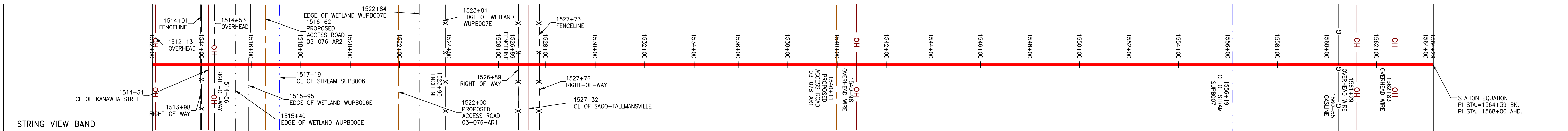
mbe monahon basin engineers

PROJECT NO./DASH NO. 140468  
 TASK NO. SUB TASK NO. 005 00  
 GROUP ID DRAWING NO. D E044  
 044 OF 344

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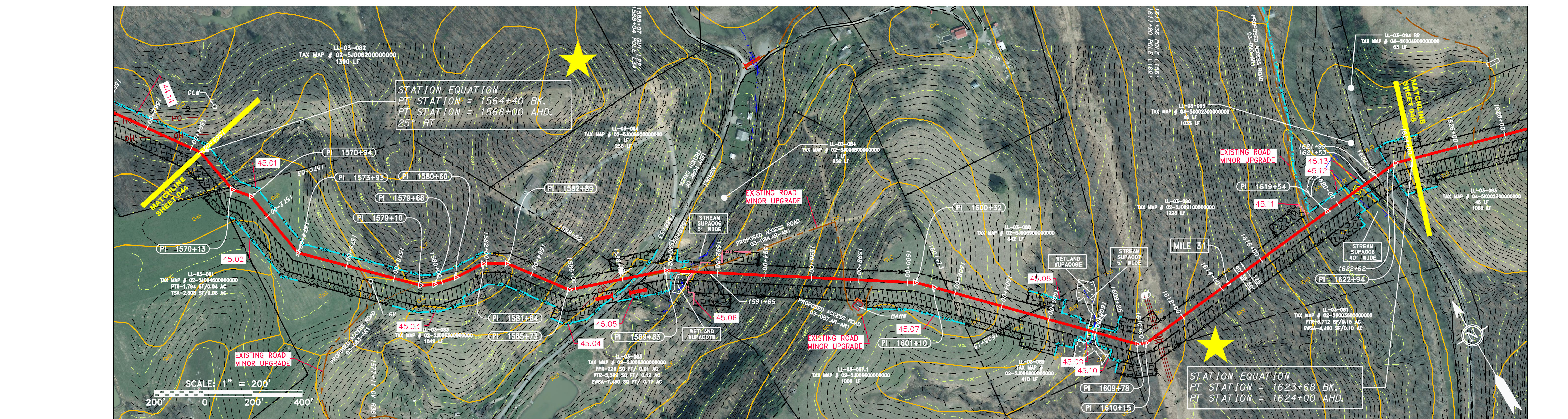
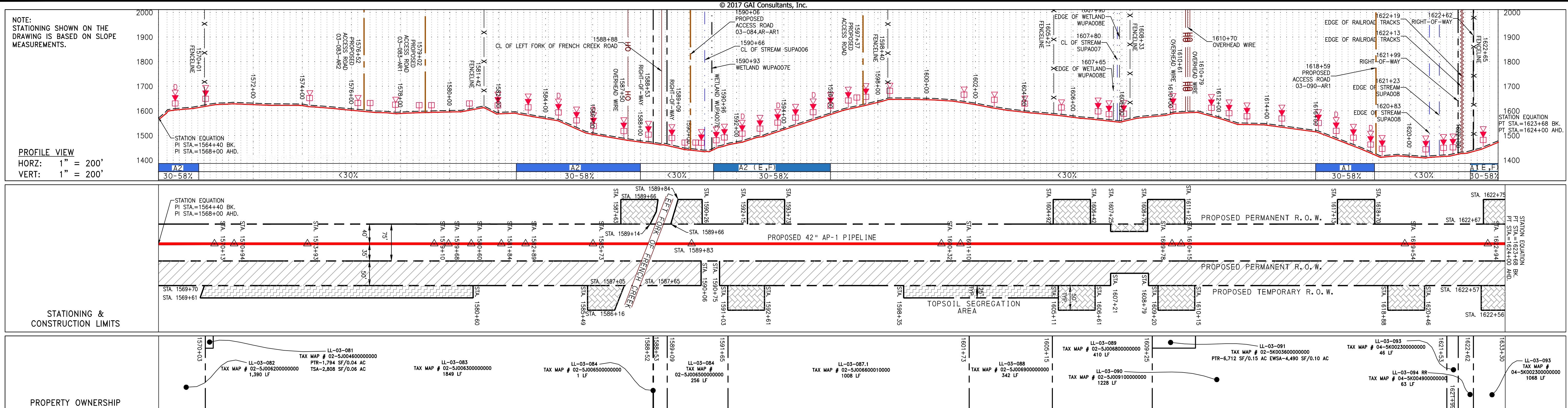


PIPE SPECIFICATION



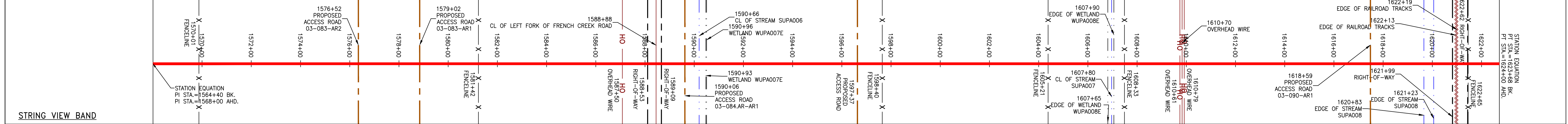
<p><b>LEGEND</b></p> <ul style="list-style-type: none"> <li>— X — X — PROPERTY LINE</li> <li>— X — X — FENCE</li> <li>— G — G — EXISTING GAS PIPELINE</li> <li>— OH — OH — OVERHEAD UTILITY LINES</li> <li>— — — ACCESS ROAD</li> <li>— — — PROPOSED GAS PIPELINE</li> <li>— E — UNDERGROUND ELECTRIC</li> <li>— W — WATER LINE</li> <li>— SAN — SANITARY SEWER</li> <li>— — — EDGE OF GRAVEL</li> <li>— — — PROPOSED PERMANENT EASEMENT</li> <li>— — — PROPOSED GAS PIPELINE (NO GROUND SURVEY)</li> </ul>	<ul style="list-style-type: none"> <li>— — — EXTRA WORK SPACE</li> <li>— — — AREA OF NO DISTURBANCE</li> <li>— — — WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)</li> <li>— — — TOPSOIL SEGREGATION AREA</li> <li>— — — PROPOSED TEMPORARY R.O.W.</li> <li>— — — UTILITY POLE</li> </ul> <p>NOTE: THE PE SEAL AND SIGNATURE APPLIES ONLY TO THE E&amp;S CONTROL DESIGN COMPLETED BY ERM (SEE NOTE 12).</p>	<ul style="list-style-type: none"> <li>▲ PERMANENT WATERBAR/SLOPE BREAKER</li> <li>▲ TEMPORARY WATERBAR/SLOPE BREAKER</li> <li>▲ TRENCH BREAKER/PLUG</li> <li>▲ TRENCH BREAKER/PLUG BLEEDER DRAIN AND OUTLET</li> <li>▲ STREAM CROSSING</li> <li>▲ USFS STREAM CROSSING WITH ENHANCED CONTROLS</li> <li>▲ CONSTRUCTION ENTRANCE WITH DITCH</li> <li>▲ CULVERT WATERBAR</li> <li>— — — LOD</li> <li>— — — BSRF</li> <li>— — — SSF</li> <li>— — — 111.03</li> <li>— — — ORANGE SAFETY FENCE</li> <li>— — — ROADSIDE DITCH</li> <li>— — — SOIL TYPE</li> <li>— — — TYPICAL BIC SLOPE CATEGORY SLOPE INCLINATION</li> </ul>	<p><b>NOTES:</b></p> <ol style="list-style-type: none"> <li>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.</li> <li>BEST IN CLASS (BIC) STEEP SLOPE CATEGORY INFORMATION CAN BE FOUND IN THE APPENDIX OF THE STORMWATER POLLUTION PREVENTION PLAN.</li> <li>EROSION CONTROL MATTING SHALL BE PLACED IN AREAS OF 30% SLOPE AND GREATER, WHICH ARE INDICATED ON THE BEST IN CLASS STEEP SLOPES BAND.</li> <li>EXISTING ROADS HAVE BEEN GROUPED INTO FOUR CATEGORIES - 1) EXISTING ROADS MINOR IMPROVEMENTS, 2) EXISTING ROADS MAJOR IMPROVEMENTS AND 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.</li> <li>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.</li> </ol>
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J:\2665 -GAI WORK ORDER 02 - SOUTHEAST PIPELINE (SECTION 1)\ALIGNMENT SHEETS\2665-2 PLAN SHEETS (45).DWG



PIPE SPECIFICATION

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**LEGEND**

—	PROPERTY LINE	—	STORM SEWER	—	PERMANENT WATERBAR/SLOPE BREAKER	—	LOD	—	LIMIT OF DISTURBANCE
X X	FENCE	—	UNDERGROUND ELECTRIC	—	TEMPORARY WATERBAR/SLOPE BREAKER	—	BSRF	—	BELTED SILT RETENTION FENCE (BSRF)
—	STREAM	—	WATER LINE	—	TRENCH BREAKER/PLUG	—	SSF	—	SUPER SILT FENCE
G G	EXISTING GAS PIPELINE	—	SAN	—	TRENCH BREAKER/PLUG BLEEDER	—	111.03	—	COMPOST FILTER SOCK
OH	OVERHEAD UTILITY LINES	—	SANITARY SEWER	—	DRAIN AND OUTLET	—	—	—	SEDIMENT BARRIER IDENTIFICATION
—	ACCESS ROAD	—	EDGE OF GRAVEL	—	—	—	—	—	ORANGE SAFETY FENCE
—	PROPOSED GAS PIPELINE (NO GROUND SURVEY)	—	PROPOSED PERMANENT EASEMENT	—	—	—	—	—	ROADSIDE DITCH
—	PROPOSED GAS PIPELINE (SLOPE SURVEY)	—	—	—	—	—	—	—	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.
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- 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 SLOPE BAND.
- ACCESS ROADS HAVE BEEN GROUPED INTO FOUR CATEGORIES: 1) EXISTING ROADS MINOR 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.

**REVISIONS**

NO.	DATE	CHKD.	APPD.	DESCRIPTION

**ERM**

**CONSTRUCTION ALIGNMENT STA 1568+00 TO 1624+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: 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

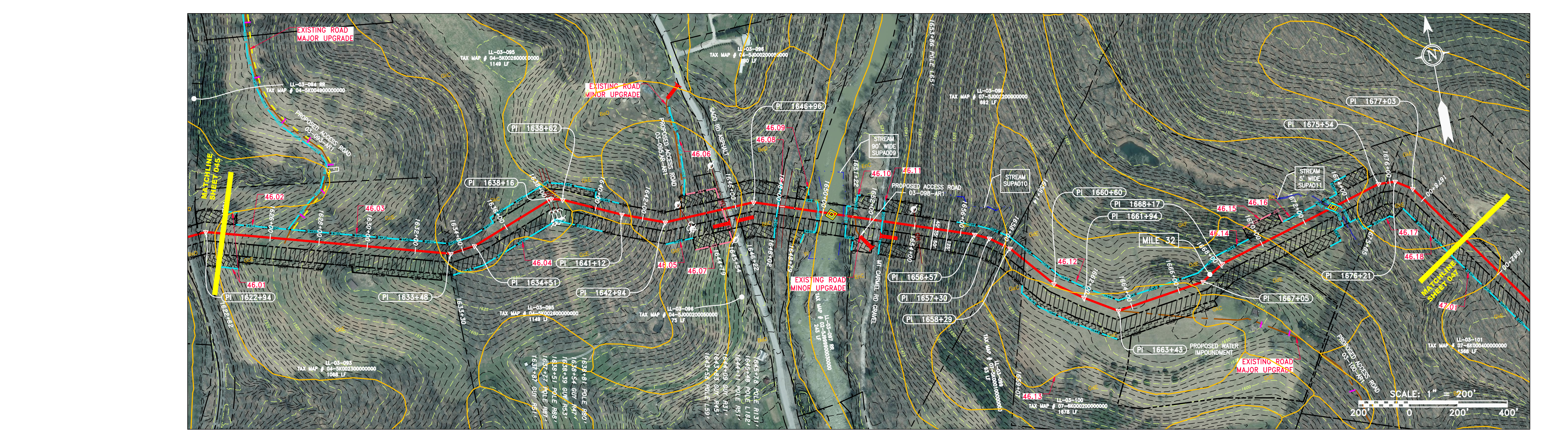
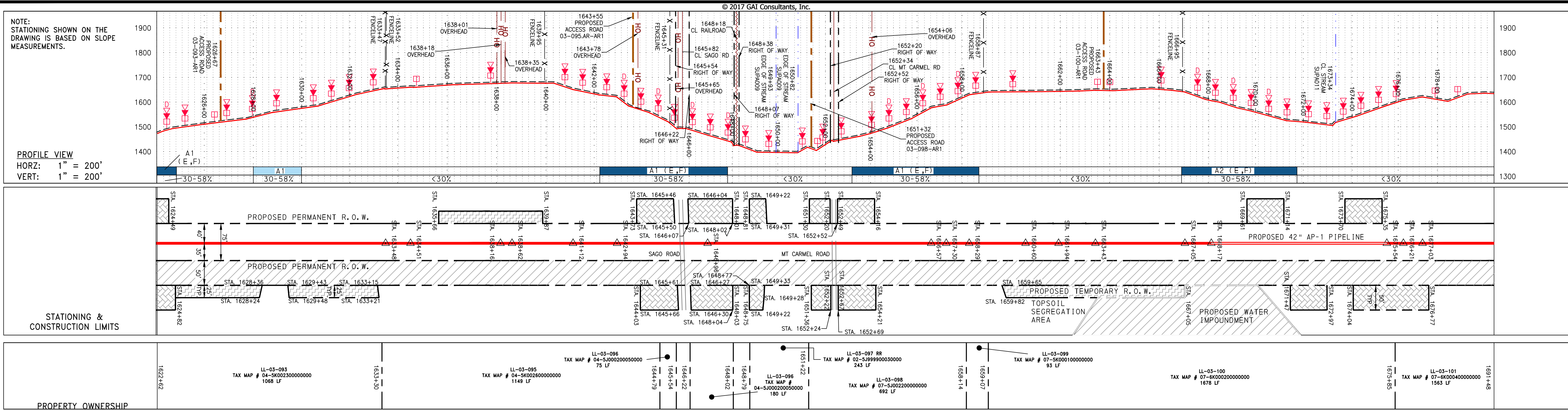
TASK NO.	SUB TASK NO.
005	00

GROUP ID: D DRAWING NO.: E045

045 OF 344

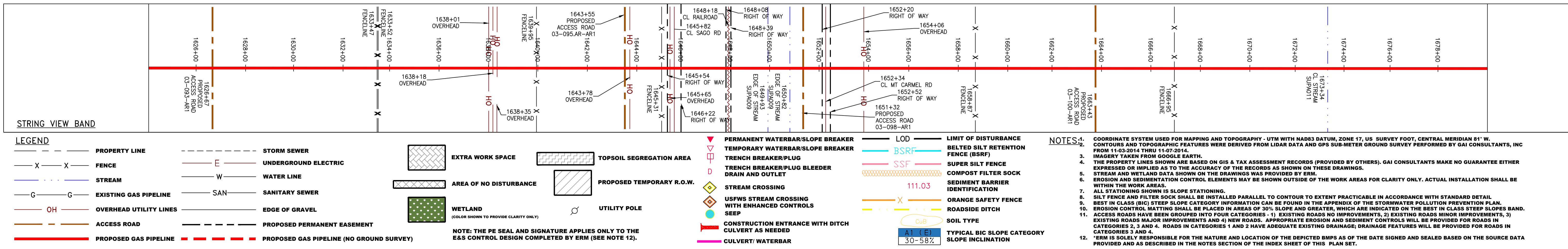
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J:\2665 - GAI\WORK ORDER 02 - SOUTHEAST PIPELINE (SECTION 1)\ALIGNMENT SHEETS\2665-2 PLAN SHEETS (46).DWG



PIPE SPECIFICATION

1622+82	1633+30	1644+02	1654+79	1665+14	1675+85	1686+48
TAX MAP # 04-5002300000000 1068 LF	TAX MAP # 04-5002300000000 1149 LF	TAX MAP # 04-5002300000000 75 LF	TAX MAP # 04-5002300000000 243 LF	TAX MAP # 07-5002200000000 892 LF	TAX MAP # 07-5002200000000 1678 LF	TAX MAP # 07-8000400000000 1568 LF



LEGEND

PROPERTY LINE	STORM SEWER	EXTRA WORK SPACE	PERMANENT WATERBAR/SLOPE BREAKER	LOD	LIMIT OF DISTURBANCE
FENCE	UNDERGROUND ELECTRIC	TOPSOIL SEGREGATION AREA	TEMPORARY WATERBAR/SLOPE BREAKER	BSRF	BELTED SILT RETENTION FENCE (BSRF)
STREAM	WATER LINE	AREA OF NO DISTURBANCE	TRENCH BREAKER/PLUG	SSF	SUPER SILT FENCE
EXISTING GAS PIPELINE	SANITARY SEWER	PROPOSED TEMPORARY R.O.W.	TRENCH BREAKER/PLUG BLEEDER	111.03	COMPOST FILTER SOCK
OVERHEAD UTILITY LINES	EDGE OF GRAVEL	UTILITY POLE	DRAIN AND OUTLET	SOIL TYPE	SEDIMENT BARRIER IDENTIFICATION
ACCESS ROAD	PROPOSED PERMANENT EASEMENT	WETLAND	STREAM CROSSING	ORANGE SAFETY FENCE	ROADSIDE DITCH
PROPOSED GAS PIPELINE	PROPOSED GAS PIPELINE (NO GROUND SURVEY)	NOTE: THE PE SEAL AND SIGNATURE APPLIES ONLY TO THE E&S CONTROL DESIGN COMPLETED BY ERM (SEE NOTE 12).	USFS W/TH ENHANCED CONTROLS	SOIL TYPE	TYPICAL BIC SLOPE CATEGORY SLOPE INCLINATION
			CONSTRUCTION ENTRANCE WITH DITCH		
			CULVERT WATERBAR		

REVISIONS

NO.	DATE	DWN.	CHKD.	APPD.	DESCRIPTION

42" AP-1 PIPELINE  
CONSTRUCTION ALIGNMENT STA 1624+00 TO 1680+00  
UPSHUR 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

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300 BUSINESS CENTER DRIVE  
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PROJECT NO./DASH NO.  
140468

TASK NO. SUB TASK NO.  
005 00

GROUP ID DRAWING NO.  
D E046

046 OF 344

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