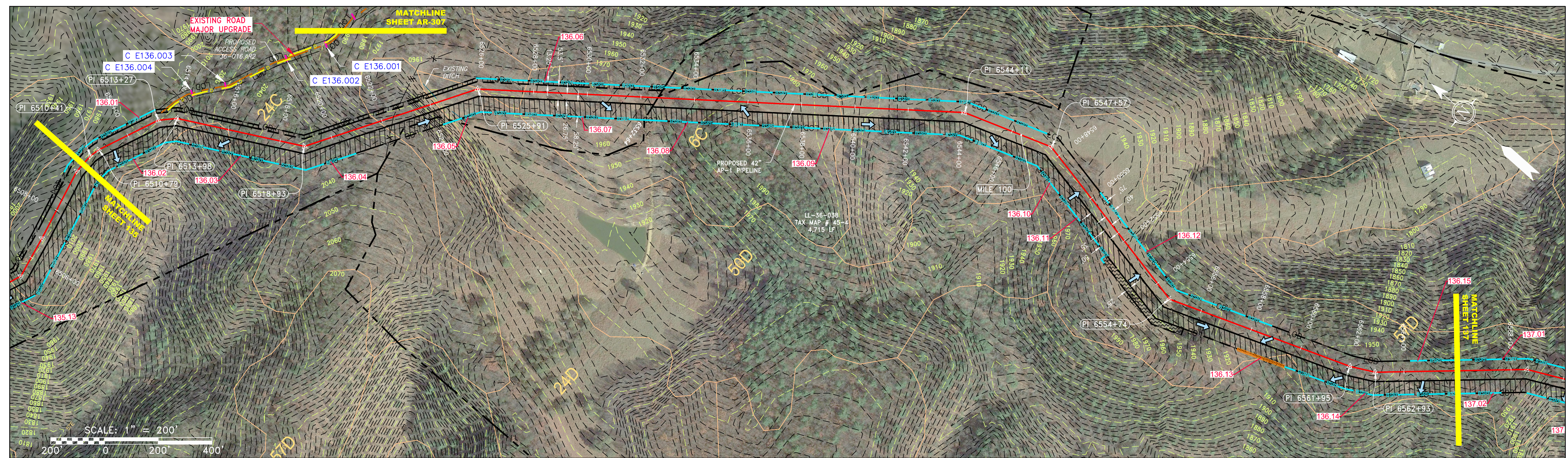
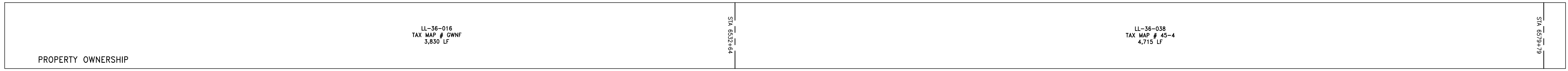
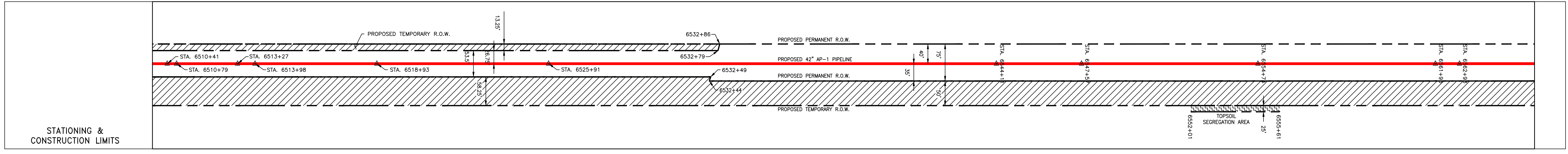
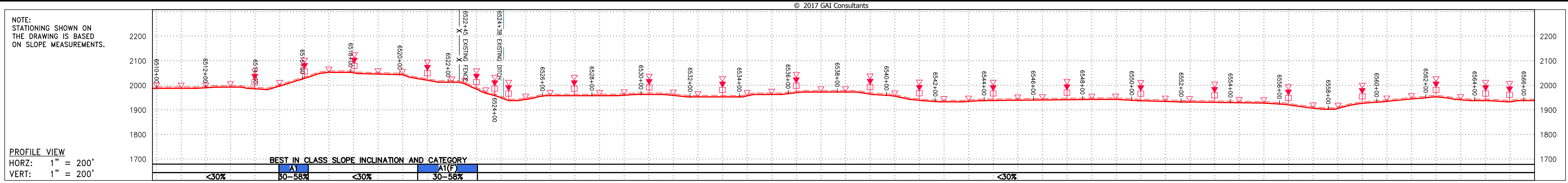
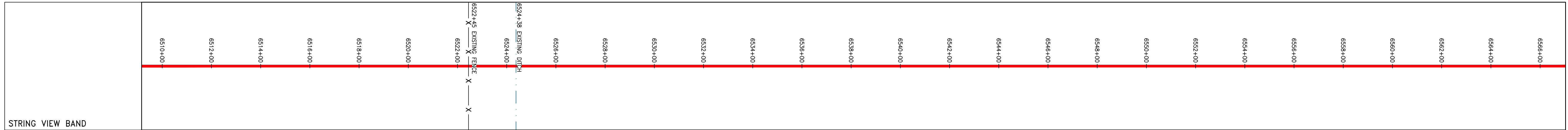


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NOT TO SCALE
PIPE SPECIFICATION



<p>LEGEND</p> <ul style="list-style-type: none"> — PROPERTY LINE X X FENCE — STREAM G G EXISTING GAS PIPELINE OH OVERHEAD UTILITY LINES — ACCESS ROAD — PROPOSED GAS PIPELINE — PROPOSED GAS PIPELINE (NO GROUND SURVEY) — STORM SEWER — UNDERGROUND ELECTRIC — WATER LINE SAN SANITARY SEWER — EDGE OF GRAVEL — PROPOSED PERMANENT EASEMENT 	<ul style="list-style-type: none"> EXTRA WORK SPACE AREA OF NO DISTURBANCE WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY) TOPSOIL SEGREGATION AREA PROPOSED TEMPORARY R.O.W. UTILITY POLE 	<ul style="list-style-type: none"> PERMANENT WATERBAR/SLOPE BREAKER TEMPORARY WATERBAR/SLOPE BREAKER TRENCH BREAKER/PLUG STREAM CROSSING USFWS STREAM CROSSING WITH ENHANCED CONTROLS SEEP SLOPE DIRECTION CONSTRUCTION ENTRANCE WITH DITCH CULVERT AS NEEDED CULVERT WATERBAR LOD 3SRP 111.03 C 111.001 ORANGE SAFETY FENCE ROADSIDE DITCH SOIL TYPE A1 (E) 30-58% 	<p>NOTES:</p> <ol style="list-style-type: none"> 1. COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY - UTM WITH NAD83 DATUM, ZONE 17, US SURVEY FOOT, CENTRAL MERIDIAN 81° W. 2. CONTOURS AND TOPOGRAPHIC FEATURES WERE DERIVED FROM LIDAR DATA AND GPS SUB-METER GROUND SURVEY PERFORMED BY GAI CONSULTANTS, INC FROM 11-03-2014 THRU 11-07-2014. 3. IMAGERY TAKEN FROM GOOGLE EARTH. 4. THE PROPERTY LINES SHOWN 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. 9. ACCESS ROADS HAVE BEEN GROUPED INTO FOUR CATEGORIES - 1) EXISTING ROADS NO IMPROVEMENTS, 2) EXISTING ROADS MAJOR IMPROVEMENTS AND 4) NEW ROADS. APPROPRIATE EROSION AND SEDIMENT CONTROLS WILL BE PROVIDED FOR ROADS IN CATEGORIES 1 AND 2. 10. EROSION CONTROL MATTING SHALL BE PLACED IN AREAS OF 30% SLOPE AND GREATER, WHICH ARE INDICATED ON THE BEST IN CLASS SLOPE BAND. 11. HAVE ADEQUATE EXISTING DRAINAGE; DRAINAGE FEATURES WILL BE PROVIDED FOR ROADS IN CATEGORIES 3 AND 4. 12. ERM IS SOLELY RESPONSIBLE FOR THE NATURE AND LOCATION OF THE DEPICTED BIMPS AS OF THE DATE SIGNED AND SEALED BASED ON THE SOURCE DATA PROVIDED AND AS DESCRIBED IN THE NOTES SECTION OF THE INDEX SHEET OF THIS PLAN SET. 13. THE CONSTRUCTION RIGHT-OF-WAY (ROW) WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS IN ACCORDANCE WITH SECTION V.A.5 FEDERAL ENERGY REGULATORY COMMISSION (FERC) UPLAND EROSION CONTROL, REVEGETATION, AND MAINTENANCE PLAN, SECTION V.A.5. IN ADDITION, WETLAND AND WATERBODY CROSSINGS WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS IN ACCORDANCE WITH NATIONWIDE PERMIT 12 (NWP) ISSUED BY THE U.S. CORPS OF ENGINEERS.
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REVISIONS		DESCRIPTION
NO.	DATE	DWN.

42" AP-1 PIPELINE
CONSTRUCTION ALIGNMENT STA 6510+00 TO 6566+00
BATH COUNTY, 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: STM
CHECKED: DLH
APPROVED: NET



SOUTHPOINTE OFFICE
6000 TOWN CENTER BLVD.
SUITE 300 EAST
CANONSBURG, PA 15317
724-873-3545



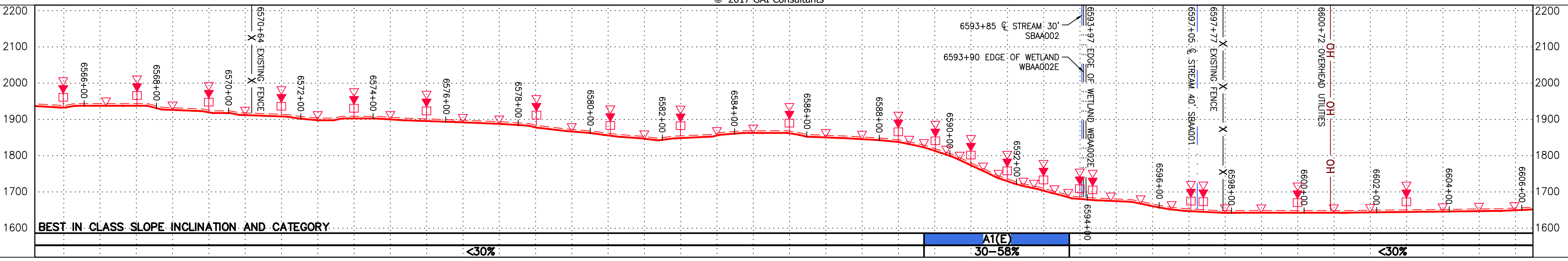
300 BUSINESS CENTER DRIVE
PITTSBURGH, PA 15205
412-788-2433

PROJECT NO./DASH NO.	140468	
TASK NO.	005	SUB TASK NO. 00
GROUP ID	D	DRAWING NO. E136
136	OF	344

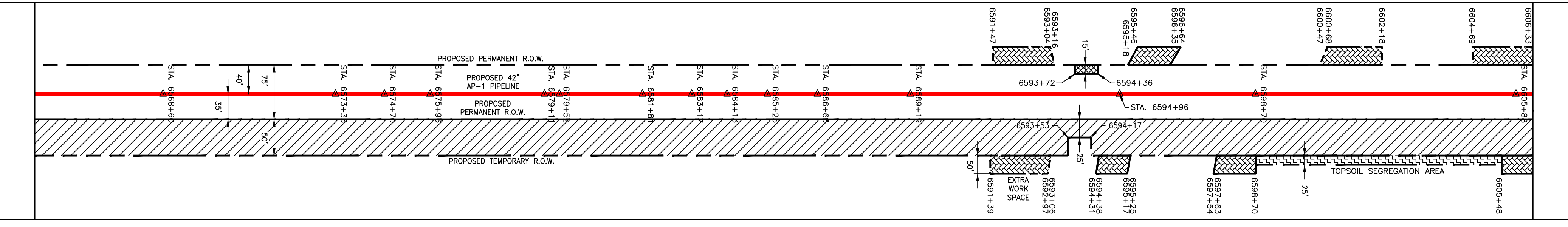
Z:\ENERGY\2014\CAD\MON FOREST_ROUTING\DWG\PREVIOUS FERC FILING DWGS\ALIGNMENT SHEETS\C140468-00-000-00-E-E-134-E-138.DWG

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

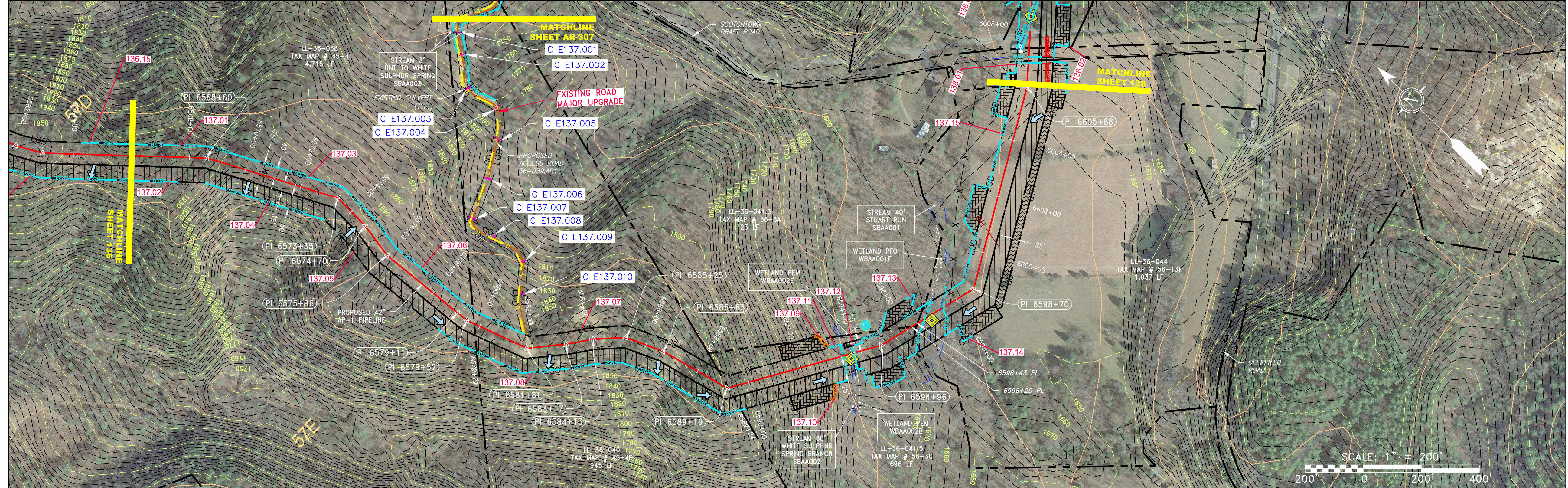
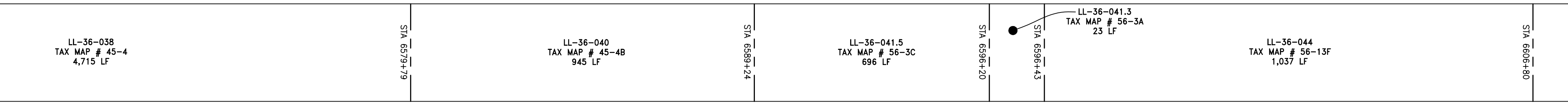
PROFILE VIEW
 HORIZ: 1" = 200'
 VERT: 1" = 200'



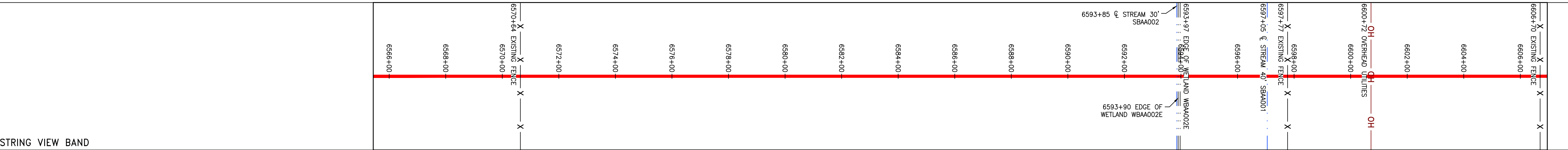
STATIONING & CONSTRUCTION LIMITS



PROPERTY OWNERSHIP



NOT TO SCALE
 PIPE SPECIFICATION



LEGEND

---	PROPERTY LINE	---	STORM SEWER
X-X	FENCE	E	UNDERGROUND ELECTRIC
- - -	STREAM	W	WATER LINE
- - -	EXISTING GAS PIPELINE	---	SANITARY SEWER
OH	OVERHEAD UTILITY LINES	---	EDGE OF GRAVEL
- - -	ACCESS ROAD	---	PROPOSED PERMANENT EASEMENT
---	PROPOSED GAS PIPELINE	---	PROPOSED GAS PIPELINE (NO GROUND SURVEY)

[Symbol]	PERMANENT WATERBAR/SLOPE BREAKER	[Symbol]	TOPSOIL SEGREGATION AREA
[Symbol]	TEMPORARY WATERBAR/SLOPE BREAKER	[Symbol]	AREA OF NO DISTURBANCE
[Symbol]	TRENCH BREAKER/PLUG	[Symbol]	WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)
[Symbol]	STREAM CROSSING	[Symbol]	UTILITY POLE
[Symbol]	USFWS STREAM CROSSING WITH ENHANCED CONTROLS	[Symbol]	EXTRA WORK SPACE
[Symbol]	SEEP	[Symbol]	PROPOSED TEMPORARY R.O.W.
[Symbol]	SLOPE DIRECTION	[Symbol]	NOTE: THE PE SEAL AND SIGNATURE APPLIES ONLY TO THE E&S CONTROL DESIGN COMPLETED BY ERM (SEE NOTE 12).
[Symbol]	CONSTRUCTION ENTRANCE WITH DITCH	[Symbol]	
[Symbol]	CULVERT AS NEEDED	[Symbol]	
[Symbol]	CULVERT WATERBAR	[Symbol]	

[Symbol]	LIMIT OF DISTURBANCE	[Symbol]	SOIL TYPE
[Symbol]	BELTED SILT RETENTION FENCE (BSRF)	[Symbol]	TYPICAL BIC SLOPE CATEGORY
[Symbol]	COMPOST FILTER SOCK	[Symbol]	SLOPE INCLINATION
[Symbol]	SEDIMENT BARRIER IDENTIFICATION	[Symbol]	
[Symbol]	CULVERT IDENTIFICATION	[Symbol]	
[Symbol]	ORANGE SAFETY FENCE	[Symbol]	
[Symbol]	Roadside Ditch	[Symbol]	

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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- 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.
- 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 FEATURES WILL BE PROVIDED FOR ROADS IN CATEGORIES 3 AND 4.
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NO.	DATE	APPD.	CHKD.	DWN.	DESCRIPTION



42" AP-1 PIPELINE
 CONSTRUCTION ALIGNMENT STA 6566+00 TO 6606+00
 BATH COUNTY, 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: CJF
 CHECKED: DLH
 APPROVED: NET



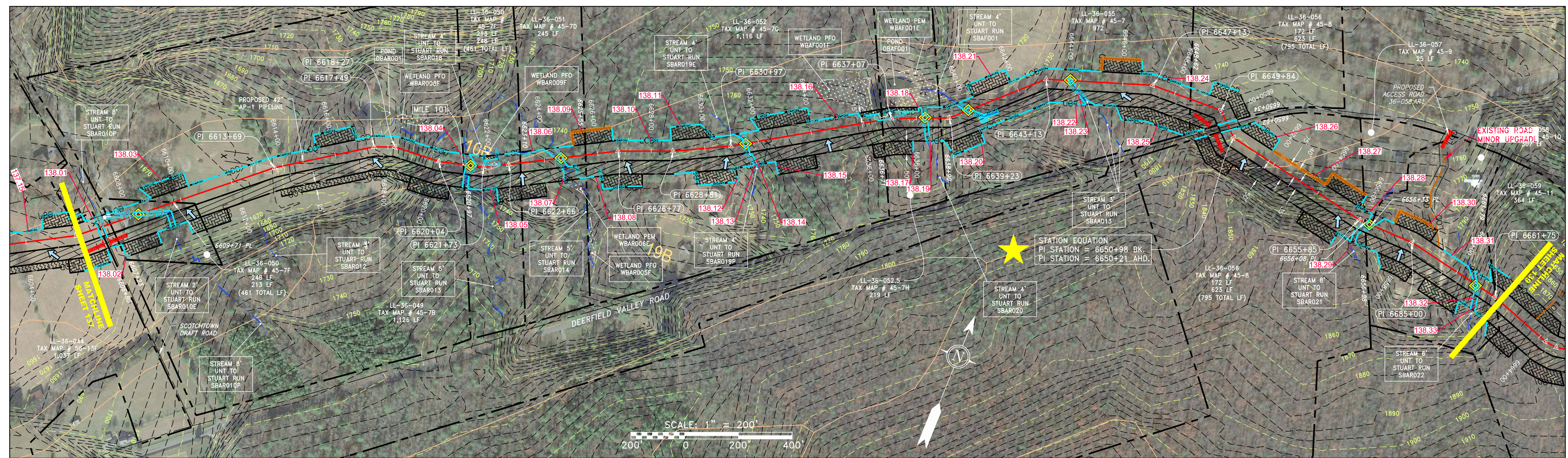
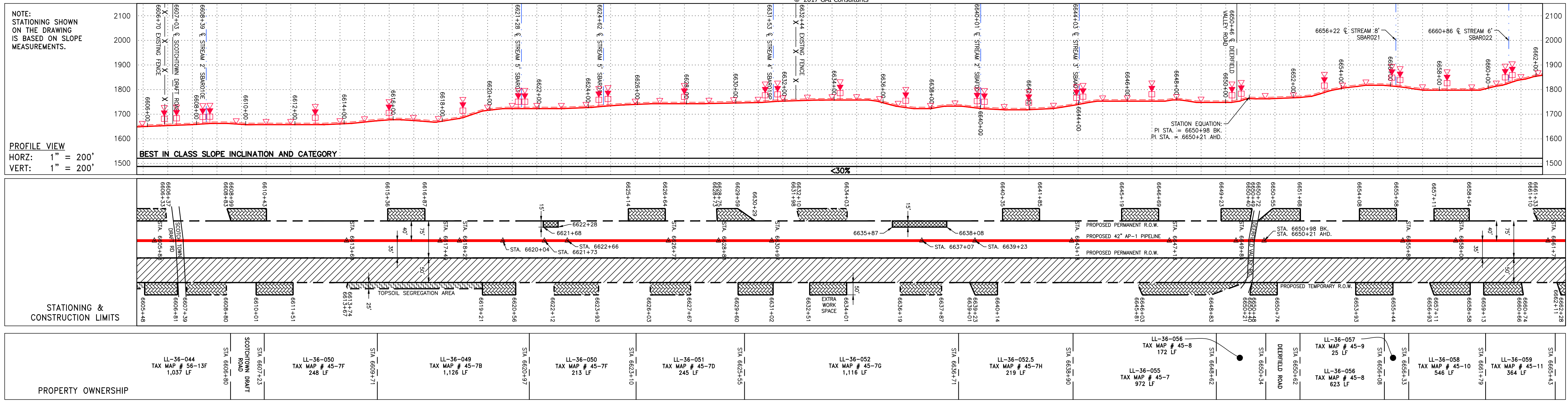
SOUTHPOINTE OFFICE
 6000 TOWN CENTER BLVD.
 SUITE 300 EAST
 CANONSBURG, PA 15317
 724-873-3545



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

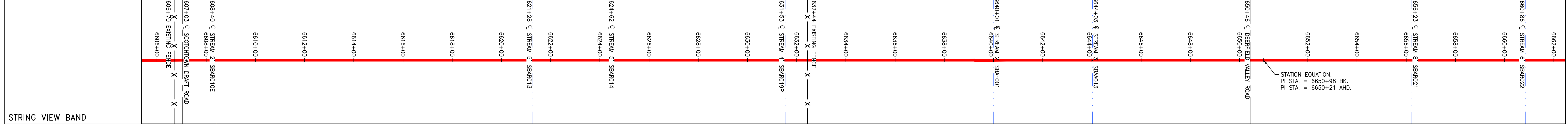
PROJECT NO./DASH NO.	140468	
TASK NO.	005	SUB TASK NO. 00
GROUP ID	D	DRAWING NO. E137
137	OF	344

Z:\ENERGY\2014\CAD\MON FOREST ROUTE\DWG\PREVIOUS FERC FILING DWGS\ALIGNMENT SHEETS\C140468-00-000-00-E-134-E1.38.DWG



NOT TO SCALE

PIPE SPECIFICATION



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 (COLOR SHOWN TO PROVIDE CLARITY ONLY)	— — — — — UTILITY POLE
— — — — — EXISTING GAS PIPELINE	— — — — — SANITARY SEWER	— — — — — PERMANENT WATERBAR/SLOPE BREAKER	— — — — — LIMIT OF DISTURBANCE
— — — — — OVERHEAD UTILITY LINES	— — — — — EDGE OF GRAVEL	— — — — — TEMPORARY WATERBAR/SLOPE BREAKER	— — — — — BELTED SILT RETENTION FENCE (BSRF)
— — — — — ACCESS ROAD	— — — — — PROPOSED PERMANENT EASEMENT	— — — — — TRENCH BREAKER/PLUG	— — — — — COMPOST FILTER SOCK
— — — — — PROPOSED GAS PIPELINE	— — — — — PROPOSED GAS PIPELINE (NO GROUND SURVEY)	— — — — — STREAM CROSSING	— — — — — SEDIMENT BARRIER IDENTIFICATION
		— — — — — USFWS STREAM CROSSING WITH ENHANCED CONTROLS	— — — — — CULVERT IDENTIFICATION
		— — — — — SEEP	— — — — — ORANGE SAFETY FENCE
		— — — — — SLOPE DIRECTION	— — — — — ROADSIDE DITCH
		— — — — — CONSTRUCTION ENTRANCE WITH DITCH	— — — — — TYPICAL BIC SLOPE CATEGORY
		— — — — — CULVERT WATERBAR	— — — — — SLOPE INCLINATION

NOTES:

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

NO.	DATE	BY	CHKD.	APPD.	DESCRIPTION
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ERM

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

gai consultants

SOUTHPOINTE OFFICE
 6000 TOWN CENTER BLVD.
 SUITE 300 EAST
 CANONSBURG, PA 15317
 724-873-3545

mbe monaloh basin engineers

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

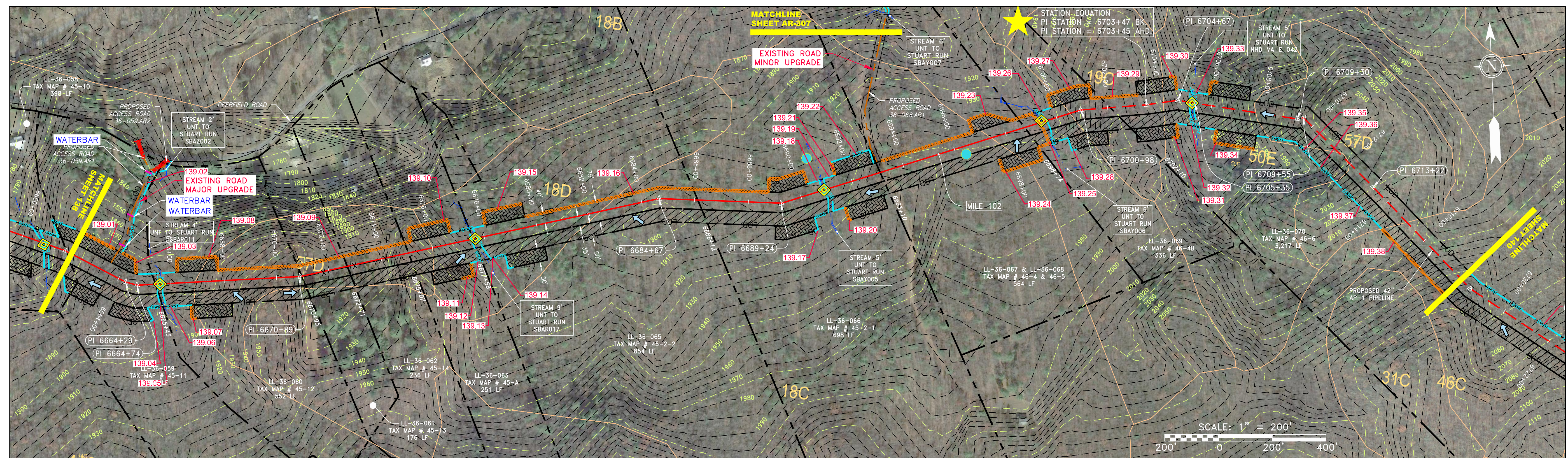
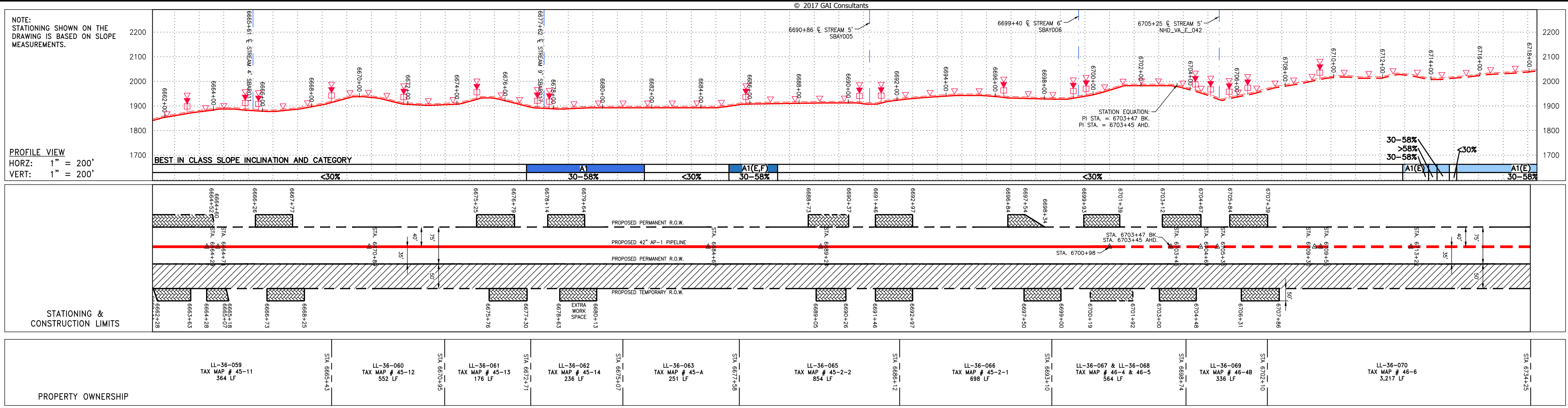
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GROUP ID D	DRAWING NO. E138

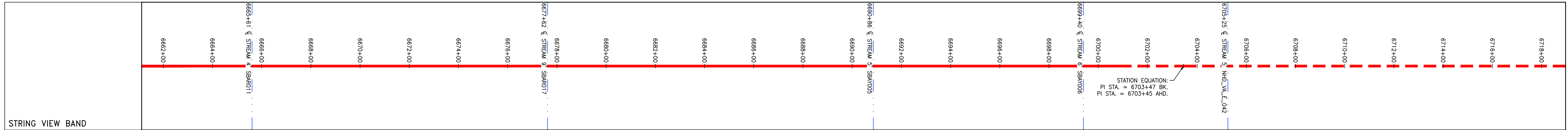
138 OF 344

6/1/2017 3:26 PM

G:\CONSULTANTS\LOCAL\BUPROJ\ENERGY\2014\C140468.00 - DOMINION - SOUTHEAST PIPE\CAD\MON FOREST ROUTE\DWG - ALIGNMENT SHEETS\C140468-00-000-E-E139-E143.DWG



NOT TO SCALE
PIPE SPECIFICATION



<p>LEGEND</p> <ul style="list-style-type: none"> — PROPERTY LINE X — FENCE — STREAM G — EXISTING GAS PIPELINE OH — OVERHEAD UTILITY LINES — ACCESS ROAD — PROPOSED GAS PIPELINE — PROPOSED GAS PIPELINE (NO GROUND SURVEY) — STORM SEWER — UNDERGROUND ELECTRIC — WATER LINE — SANITARY SEWER — EDGE OF GRAVEL — PROPOSED PERMANENT EASEMENT — PROPOSED PERMANENT R.O.W. — EXTRA WORK SPACE — AREA OF NO DISTURBANCE — WETLAND — UTILITY POLE — PERMANENT WATERBAR/SLOPE BREAKER — TEMPORARY WATERBAR/SLOPE BREAKER — TRENCH BREAKER/PLUG — STREAM CROSSING — USFWS STREAM CROSSING WITH ENHANCED CONTROLS — SEEP — SLOPE DIRECTION — CONSTRUCTION ENTRANCE WITH DITCH — CULVERT AS NEEDED — CULVERT WATERBAR — LIMIT OF DISTURBANCE — BELTED SILT RETENTION FENCE (BSRF) — COMPOST FILTER SOCK — SEDIMENT IDENTIFICATION — CULVERT IDENTIFICATION — ORANGE SAFETY FENCE — ROADSIDE DITCH — SOIL TYPE — TYPICAL BIC SLOPE CATEGORY SLOPE INCLINATION 	<p>NOTES:</p> <ol style="list-style-type: none"> 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 SLOPE BAND. ACCESS ROADS HAVE BEEN GROUPED INTO FOUR CATEGORIES: 1) EXISTING ROADS MINOR IMPROVEMENTS, 2) EXISTING ROADS MAJOR IMPROVEMENTS AND 3) NEW ROADS. APPROPRIATE EROSION AND SEDIMENT CONTROLS WILL BE PROVIDED FOR ROADS IN CATEGORIES 2, 3 AND 4. ROADS IN CATEGORIES 1 AND 2 HAVE ADEQUATE EXISTING DRAINAGE; DRAINAGE FEATURES WILL BE PROVIDED FOR ROADS IN CATEGORIES 3 AND 4. ERM IS SOLELY RESPONSIBLE FOR THE NATURE AND LOCATION OF THE DEPICTED BMP'S AS OF THE DATE SIGNED AND SEALED BASED ON THE SOURCE DATA PROVIDED AND AS DESCRIBED IN THE NOTES SECTION OF THE INDEX SHEET OF THIS PLAN SET. THE CONSTRUCTION RIGHT-OF-WAY (ROW) WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS IN ACCORDANCE WITH SECTION V.5 FEDERAL ENERGY REGULATORY COMMISSION (FERC) UPLAND EROSION CONTROL, REVEGETATION, AND MAINTENANCE PLAN, SECTION V.5. IN ADDITION, WETLAND AND WATERBODY CROSSINGS WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS IN ACCORDANCE WITH NATIONWIDE PERMIT 12 (NWP) ISSUED BY THE U.S. CORPS OF ENGINEERS.
---	---

NO.	DATE	BY	CHKD.	APPROV.	DESCRIPTION

42" AP-1 PIPELINE
CONSTRUCTION ALIGNMENT STA 6662+00 TO 6718+00
BATH COUNTY, VIRGINIA

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

SCALE: AS SHOWN
DATE: 6/21/17
DRAWN: CJF
CHECKED: DLH
APPROVED: NET

gai consultants

SOUTHPOINTE OFFICE
6000 TOWN CENTER BLVD.
SUITE 300 EAST
CANONSBURG, PA 15317
724-873-3545

mbe
monaloh basin
engineers

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

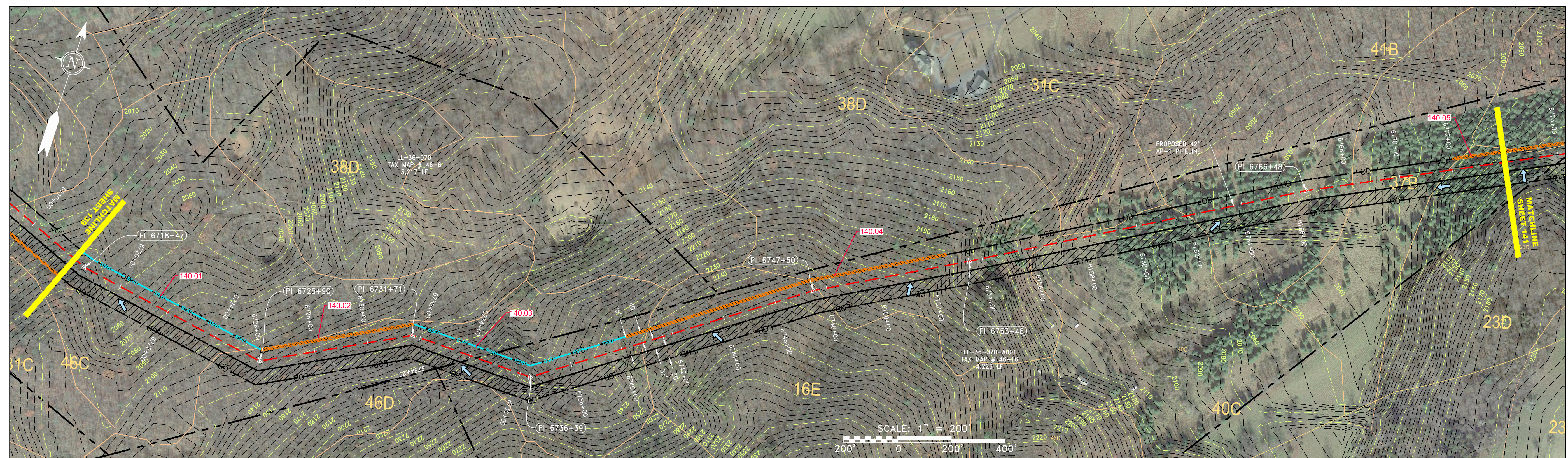
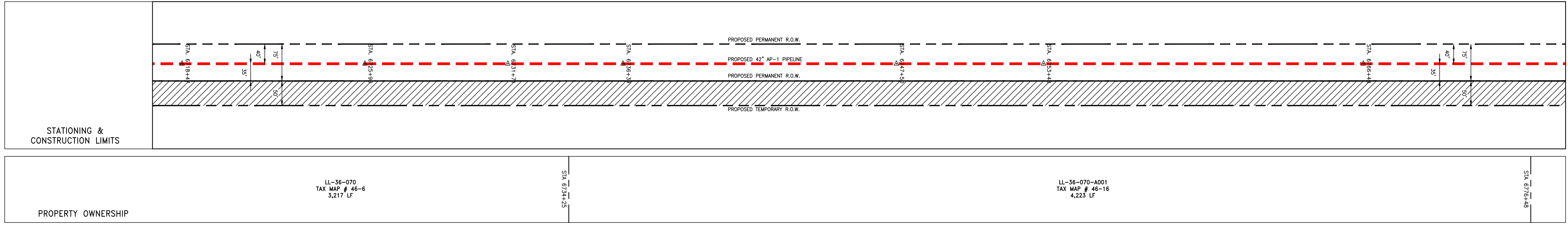
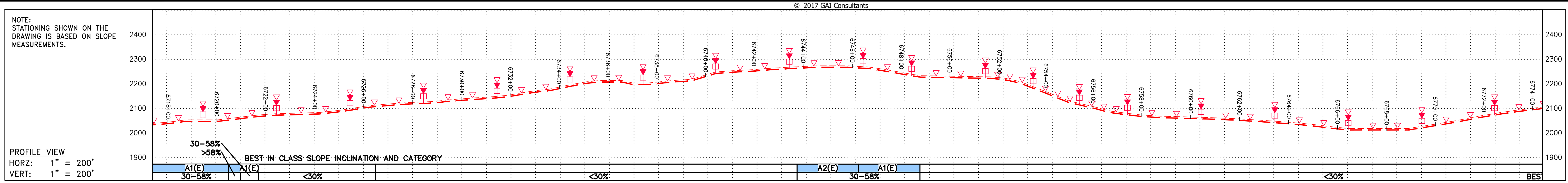
PROJECT NO./DASH NO.
140468

TASK NO.	SUB TASK NO.
005	00

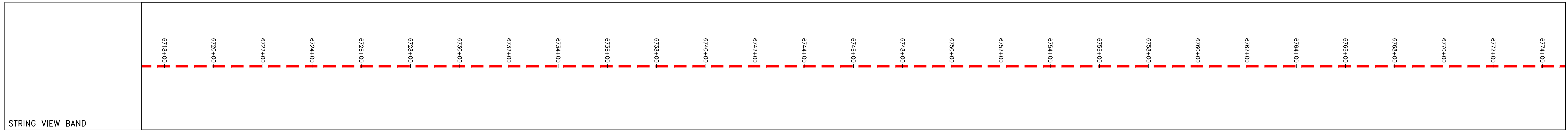
GROUP ID: **D** DRAWING NO.: **E139**

139 OF 344

G:\CONSULTANTS\LOCAL\BUPROJ\ENERGY\2014\C140468.00 - DOMINION - SOUTHEAST PIPE\CAD\MON FOREST\ROUTE\DWG_PREVIOUS FERC FILING DWGS_ALIGNMENT SHEETS\C140468-00-000-00-E-139-E-143.DWG



NOT TO SCALE
PIPE SPECIFICATION



LEGEND

<ul style="list-style-type: none"> — PROPERTY LINE X X FENCE — STREAM G G EXISTING GAS PIPELINE OH OVERHEAD UTILITY LINES — ACCESS ROAD — PROPOSED GAS PIPELINE 	<ul style="list-style-type: none"> E UNDERGROUND ELECTRIC W WATER LINE SAN SANITARY SEWER — EDGE OF GRAVEL — PROPOSED PERMANENT EASEMENT — PROPOSED GAS PIPELINE (NO GROUND SURVEY) 	<ul style="list-style-type: none"> EXTRA WORK SPACE AREA OF NO DISTURBANCE WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY) TOPSOIL SEGREGATION AREA PROPOSED TEMPORARY R.O.W. UTILITY POLE 	<ul style="list-style-type: none"> PERMANENT WATERBAR/SLOPE BREAKER TEMPORARY WATERBAR/SLOPE BREAKER TRENCH BREAKER/PLUG STREAM CROSSING USFWS STREAM CROSSING WITH ENHANCED CONTROLS SEEP SLOPE DIRECTION CONSTRUCTION ENTRANCE WITH DITCH CULVERT AS NEEDED CULVERT WATERBAR 	<ul style="list-style-type: none"> LOD LIMIT OF DISTURBANCE BSRF BELTED SILT RETENTION FENCE (BSRF) CSF COMPOST FILTER SOCK SID SEDIMENT BARRIER IDENTIFICATION C CULVERT IDENTIFICATION OSF ORANGE SAFETY FENCE RD ROADSIDE DITCH SOIL TYPE A1(E) TYPICAL BIC SLOPE CATEGORY 30-58% 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. ACCESS ROADS HAVE BEEN GROUPED INTO FOUR CATEGORIES - 1) EXISTING ROADS NO IMPROVEMENTS, 2) EXISTING ROADS MAJOR IMPROVEMENTS AND 4) NEW ROADS. APPROPRIATE EROSION AND SEDIMENT CONTROLS WILL BE PROVIDED FOR ROADS IN CATEGORIES 1 AND 2. EROSION CONTROL MATTING SHALL BE PLACED IN AREAS OF 30% SLOPE AND GREATER, WHICH ARE INDICATED ON THE BEST IN CLASS STEEP SLOPES BAND. 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. ADDITIONAL EROSION AND SEDIMENT CONTROLS WILL BE PROVIDED FOR ROADS IN CATEGORIES 3 AND 4. ERM IS SOLELY RESPONSIBLE FOR THE NATURE AND LOCATION OF THE DEPICTED BICMS AS OF THE DATE SIGNED AND SEALED BASED ON THE SOURCE DATA PROVIDED AND AS DESCRIBED IN THE NOTES SECTION OF THE INDEX SHEET OF THIS PLAN SET. THE CONSTRUCTION RIGHT-OF-WAY (ROW) WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS IN ACCORDANCE WITH SECTION V.A.5 FEDERAL ENERGY REGULATORY COMMISSION (FERC) UPLAND EROSION CONTROL, REVEGETATION, AND MAINTENANCE PLAN, SECTION V.A.5. IN ADDITION, WETLAND AND WATERBODY CROSSINGS WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS IN ACCORDANCE WITH NATIONWIDE PERMIT 12 (NWP) ISSUED BY THE U.S. CORPS OF ENGINEERS.
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REVISIONS		DESCRIPTION
NO.	DATE	CHKD. APPD.

ERM
 42" AP-1 PIPELINE
 CONSTRUCTION ALIGNMENT STA 6718+00 TO 6774+00
 BATH COUNTY, VIRGINIA
 ATLANTIC COAST PIPELINE, LLC
 C/O DOMINION TRANSMISSION, INC.
 925 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330

SCALE:	AS SHOWN
DATE:	6/21/17
DRAWN:	CJF
CHECKED:	DLH
APPROVED:	NET

SOUTHPOINTE OFFICE
 6000 TOWN CENTER BLVD.
 SUITE 300 EAST
 CANONSBURG, PA 15317
 724-873-3545

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

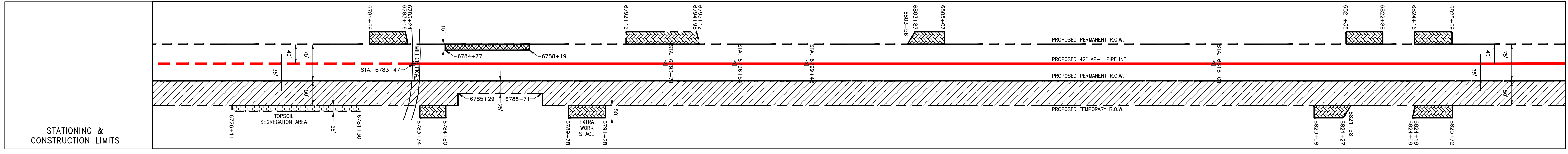
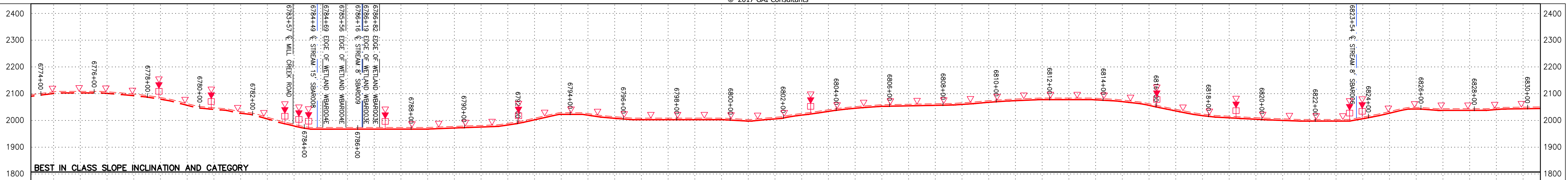
PROJECT NO./DASH NO.	140468	
TASK NO.	005	SUB TASK NO. 00
GROUP ID	D	DRAWING NO. E140
140 OF 344		6/21/2017 9:20 AM

GAICONCONSULTANTS\LOCAL\BUPROJ\ENERGY\2014\C140468.00 - DOMINION - SOUTHEAST PIPE\CAD\MON FOREST REROUTE\DWG_PREVIOUS FERC FILING DWGS_ALIGNMENT SHEETS\C140468-00-000-E-E139-E143.DWG

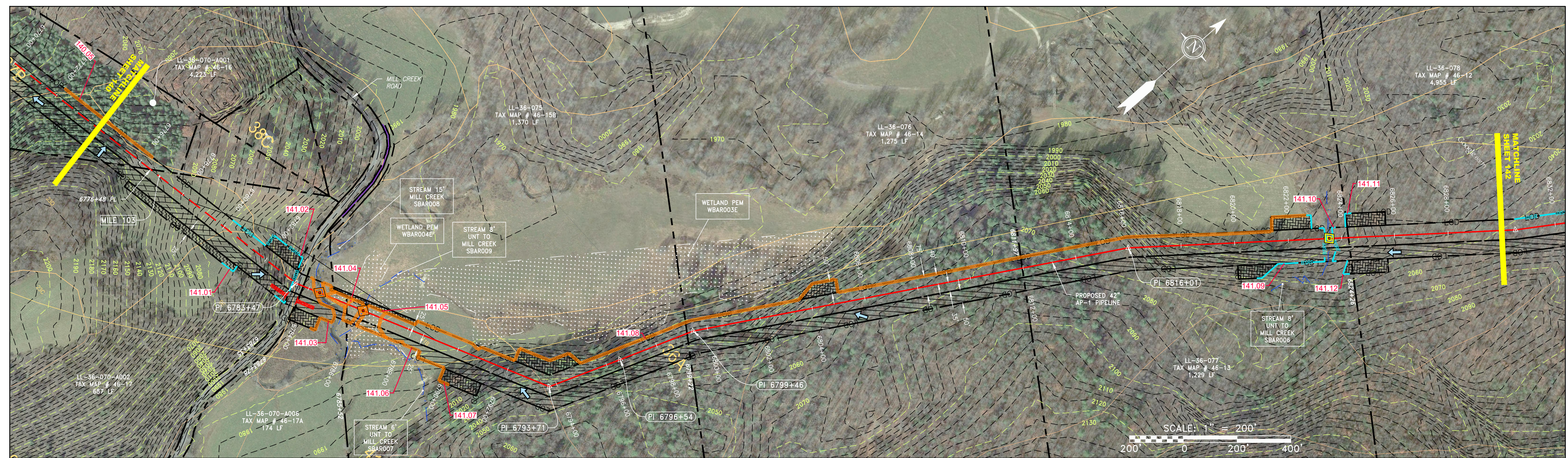
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NOTE: STATIONING SHOWN ON THE DRAWING IS BASED ON SLOPE MEASUREMENTS.

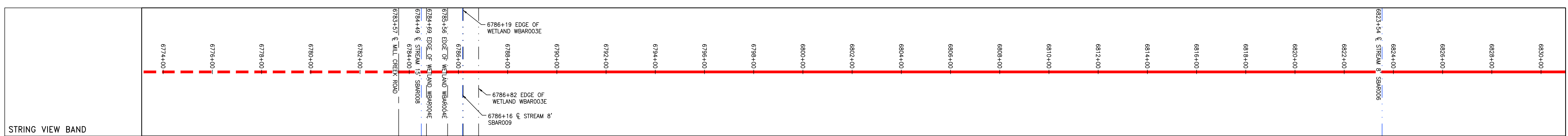
PROFILE VIEW
HORZ: 1" = 200'
VERT: 1" = 200'



PROPERTY OWNERSHIP
LL-36-070-A001 TAX MAP # 46-16 4,223 LF SIA 6776+48
LL-36-070-A002 TAX MAP # 46-17 687 LF SIA 6783+35
LL-36-070-A006 TAX MAP # 46-17A 174 LF SIA 6783+78
LL-36-075 TAX MAP # 46-15B 1,370 LF SIA 6795+52
LL-36-076 TAX MAP # 46-14 1,275 LF SIA 6811+97
LL-36-077 TAX MAP # 46-13 1,229 LF SIA 6824+26
LL-36-078 TAX MAP # 46-12 4,955 LF SIA 6873+81



NOT TO SCALE
PIPE SPECIFICATION



LEGEND

—	PROPERTY LINE	—	STORM SEWER
X—X	FENCE	—E—	UNDERGROUND ELECTRIC
—	STREAM	—W—	WATER LINE
—G—G	EXISTING GAS PIPELINE	—SAN—	SANITARY SEWER
—OH—	OVERHEAD UTILITY LINES	—	EDGE OF GRAVEL
—	ACCESS ROAD	—	PROPOSED PERMANENT EASEMENT
—	PROPOSED GAS PIPELINE	—	PROPOSED GAS PIPELINE (NO GROUND SURVEY)

—	EXTRA WORK SPACE	—	TOPSOIL SEGREGATION AREA
—	AREA OF NO DISTURBANCE	—	PROPOSED TEMPORARY R.O.W.
—	WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)	—	UTILITY POLE

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

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

NOTES:

- COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY: UTM WITH NAD83 DATUM, ZONE 17, US SURVEY FOOT, CENTRAL MERIDIAN 81° W.
- CONTOURS AND TOPOGRAPHIC FEATURES WERE DERIVED FROM LIDAR DATA AND GPS SUB-METER GROUND SURVEY PERFORMED BY GAI CONSULTANTS, INC FROM 11-03-2014 THRU 11-07-2014.
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- STREAM AND WETLAND DATA SHOWN ON THE DRAWINGS WAS PROVIDED BY ERM.
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- ALL STATIONING SHOWN IS SLOPE STATIONING.
- ACCESS ROADS HAVE BEEN GROUPED INTO FOUR CATEGORIES: 1) EXISTING ROADS NO IMPROVEMENTS, 2) EXISTING ROADS MINOR IMPROVEMENTS, 3) EXISTING ROADS MAJOR IMPROVEMENTS AND 4) NEW ROADS. APPROPRIATE EROSION AND SEDIMENTATION CONTROLS WILL BE PROVIDED FOR ROADS IN CATEGORIES 1 AND 2.
- HAVE ADEQUATE EXISTING DRAINAGE DRAINAGE FEATURES WILL BE PROVIDED FOR ROADS IN CATEGORIES 3 AND 4.
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- THE CONSTRUCTION RIGHT-OF-WAY (ROW) WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS IN ACCORDANCE WITH SECTION 5.4.5 FEDERAL ENERGY REGULATORY COMMISSION (FERC) UPLAND EROSION CONTROL, REVEGETATION, AND MAINTENANCE PLAN, SECTION V.A.5. IN ADDITION, WETLAND AND WATERBODY CROSSINGS WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS IN ACCORDANCE WITH NATIONWIDE PERMIT 12 (NWP) ISSUED BY THE U.S. CORPS OF ENGINEERS.

THIS DRAWING WAS PRODUCED WITH COMPUTER AIDED DRAFTING TECHNOLOGY AND IS SUPPORTED BY ELECTRONIC DRAWING FILES. DO NOT REVISE THIS DRAWING VIA MANUAL DRAFTING METHODS.

REVISIONS			
NO.	DATE	BY	DESCRIPTION

ERM
Daniel J. Goldstein
DANIEL J. GOLDSTEIN
Lic. No. 047436

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

42" AP-1 PIPELINE
CONSTRUCTION ALIGNMENT STA 6774+00 TO 6830+00
BATH COUNTY, VIRGINIA

SCALE: AS SHOWN
DATE: 6/21/17
DRAWN: CJF
CHECKED: DLH
APPROVED: NET

gai consultants

SOUTHPOINTE OFFICE
6000 TOWN CENTER BLVD.
SUITE 300 EAST
CANONSBURG, PA 15317
724-873-3545

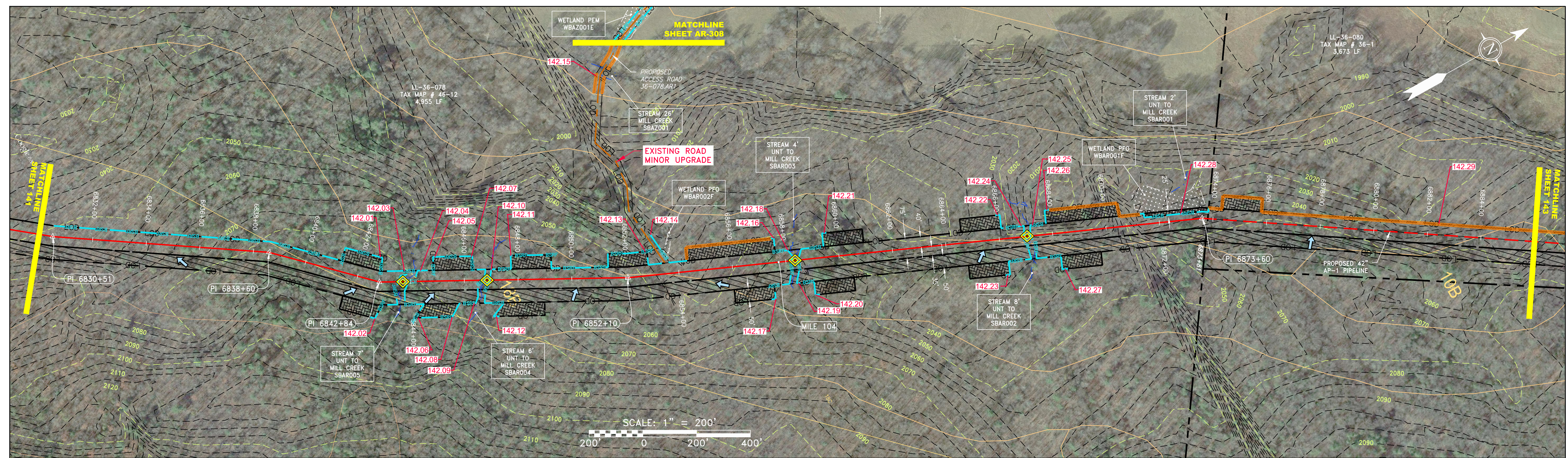
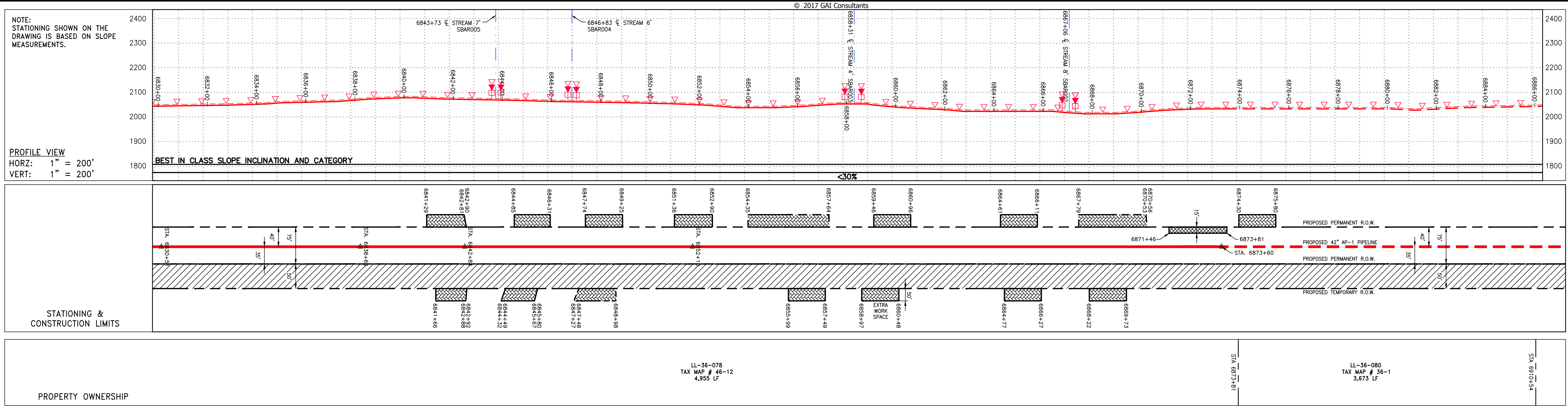
mbe
monahon basin
engineers

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

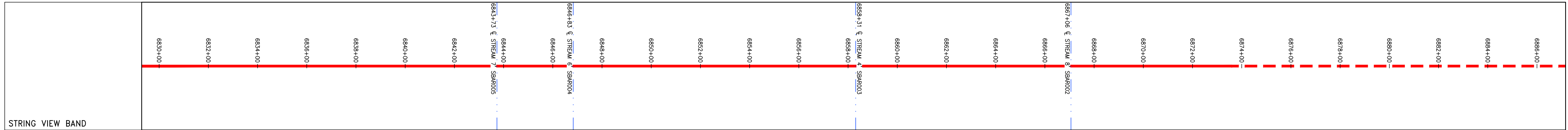
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TASK NO. SUB TASK NO. 005 00
GROUP ID DRAWING NO. D E141
141 OF 344

6/21/2017 9:21 AM

\\GAI\CONSULTANTS\LOCAL\BUPROJ\ENERGY\2014\C140468.00 - DOMINION - SOUTHEAST PIPE\CAD\MON FOREST\ROUTE\DWG_PREVIOUS FERC FILING DWGS_ALIGNMENT SHEETS\C140468-00-000-00-E-E139-E143.DWG



NOT TO SCALE
PIPE SPECIFICATION



LEGEND		NOTES:	
	PROPERTY LINE		LIMIT OF DISTURBANCE
	FENCE		BELTED SILT RETENTION FENCE (BSRF)
	STREAM		COMPOST FILTER SOCK
	EXISTING GAS PIPELINE		CULVERT IDENTIFICATION
	OVERHEAD UTILITY LINES		ORANGE SAFETY FENCE
	ACCESS ROAD		ROADSIDE DITCH
	PROPOSED GAS PIPELINE		SOIL TYPE
	PROPOSED GAS PIPELINE (NO GROUND SURVEY)		TYPICAL BIC SLOPE CATEGORY
	STORM SEWER		SLOPE INCLINE
	UNDERGROUND ELECTRIC		PERMANENT WATERBAR/SLOPE BREAKER
	WATER LINE		TEMPORARY WATERBAR/SLOPE BREAKER
	SANITARY SEWER		TRENCH BREAKER/PLUG
	EDGE OF GRAVEL		STREAM CROSSING
	PROPOSED PERMANENT EASEMENT		USFWS STREAM CROSSING WITH ENHANCED CONTROLS
	PROPOSED GAS PIPELINE		SEEP
	EXTRA WORK SPACE		SLOPE DIRECTION
	AREA OF NO DISTURBANCE		CONSTRUCTION ENTRANCE WITH DITCH
	WETLAND		CULVERT AS NEEDED
	TOPSOIL SEGREGATION AREA		CULVERT WATERBAR
	PROPOSED TEMPORARY R.O.W.		
	UTILITY POLE		

REVISIONS	
NO.	DESCRIPTION

42" AP-1 PIPELINE
CONSTRUCTION ALIGNMENT STA 6830+00 TO 6886+00
BATH COUNTY, VIRGINIA

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

SCALE: AS SHOWN
DATE: 6/21/17
DRAWN: CJF
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gai consultants
SOUTHPOINTE OFFICE
6000 TOWN CENTER BLVD.
SUITE 300 EAST
CANONSBURG, PA 15317
724-873-3545

PROJECT NO./DASH NO.
140468

TASK NO. SUB TASK NO.
005 00

GROUP ID DRAWING NO.
D E142

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

142 OF 344