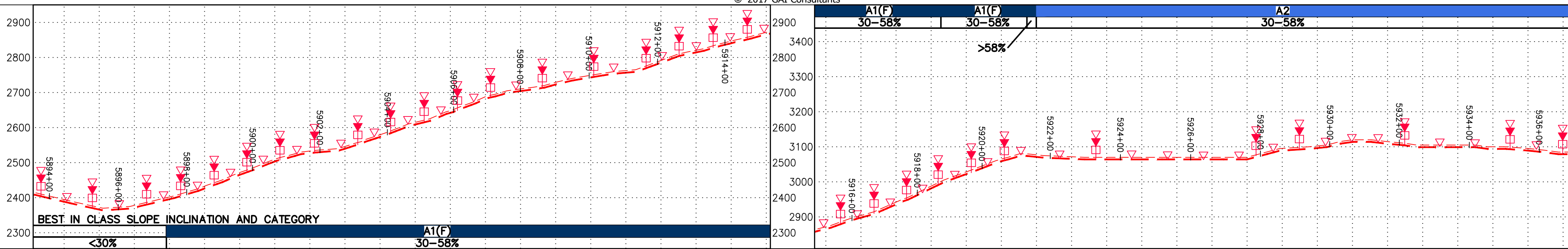


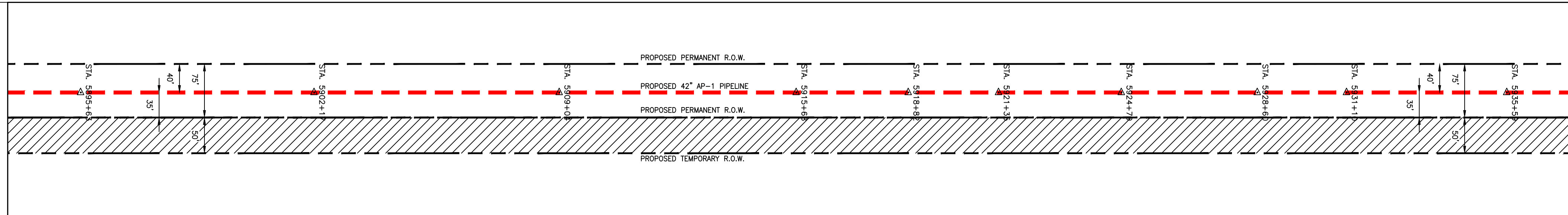
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NOTE:
STATIONING SHOWN ON THE
DRAWING IS BASED ON SLOPE
MEASUREMENTS.

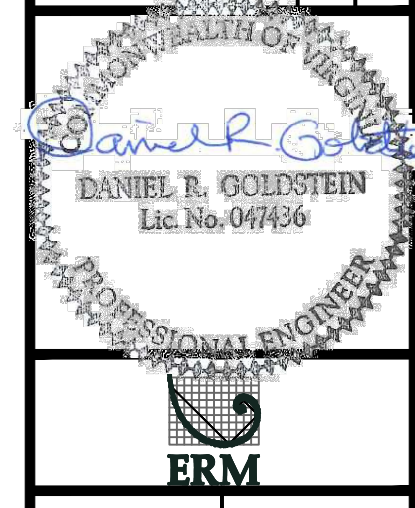
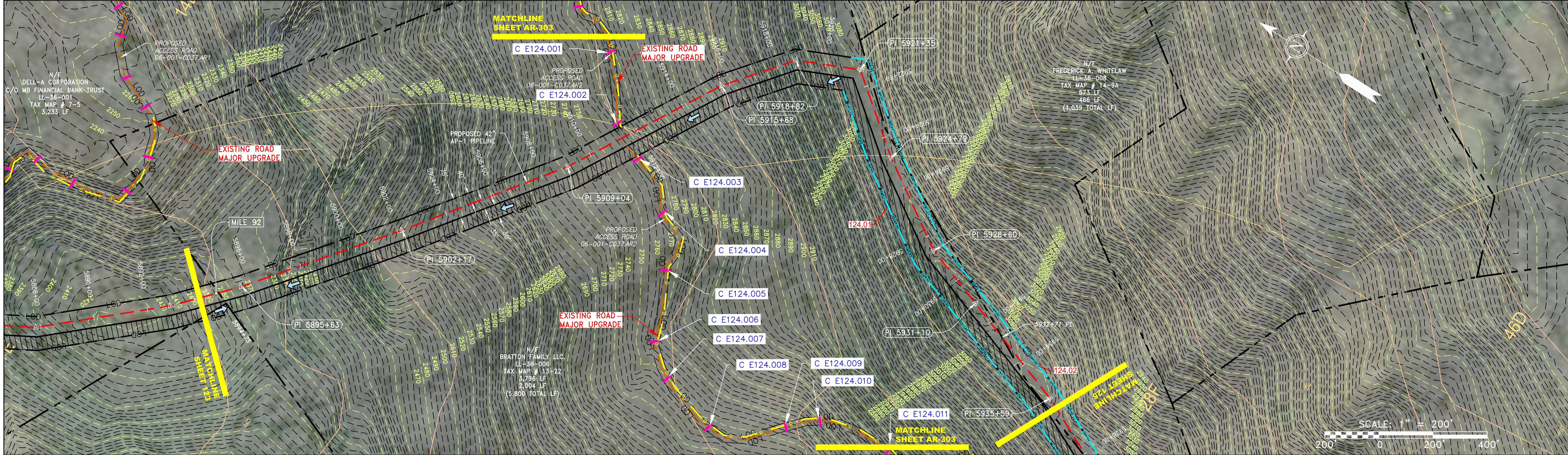
PROFILE VIEW
HORIZ: 1" = 200'
VERT: 1" = 200'



STATIONING &
CONSTRUCTION LIMITS



PROPERTY OWNERSHIP	STATIONING	AREA
N/F DELL-A CORPORATION C/O MB FINANCIAL BANK TRUST LL-36-001 TAX MAP # 7-5 3,233 LF	5894+00	5900+00
N/F BRATTON FAMILY LLC. LL-36-006 TAX MAP # 13-22 3,796 LF	5900+00	5922+00
N/F FREDERICK A. WHITELAW LL-36-008 TAX MAP # 14-9A 573 LF	5922+00	5936+00



42" AP-1 PIPELINE
CONSTRUCTION ALIGNMENT STA 5894+00 TO 5936+00
BATH COUNTY, VIRGINIA
ATLANTIC COAST PIPELINE, LLC
C/O DOMINION TRANSMISSION, INC.
925 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330

SCALE: AS SHOWN
DATE: 4/26/17
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

NOT TO SCALE
PIPE SPECIFICATION

PIPE LEGEND

A	42" x 0.600" WT-X70 DSAW, FBE
B	42" x 0.720" WT-X70 DSAW, FBE
C	42" x 0.864" WT-X70 DSAW, FBE
D	42" x 0.600" WT-X70 DSAW, 6" CC
E	42" x 0.720" WT-X70 DSAW, 5 1/2" CC
F	42" x 0.864" WT-X70 DSAW, 4 1/2" CC
G	42" x 0.864" WT-X70 DSAW, 40 MIL PC

STRING VIEW BAND

LEGEND

---	PROPERTY LINE	---	STORM SEWER
X-X	FENCE	---	UNDERGROUND ELECTRIC
---	STREAM	---	WATER LINE
G-G	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)

---	EXTRA WORK SPACE	---	TOPSOIL SEGREGATION AREA
---	AREA OF NO DISTURBANCE	---	PROPOSED TEMPORARY R.O.W.
---	WETLAND	---	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.
- 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.
- APPROPRIATE 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.

PROJECT NO./DASH NO.
140468

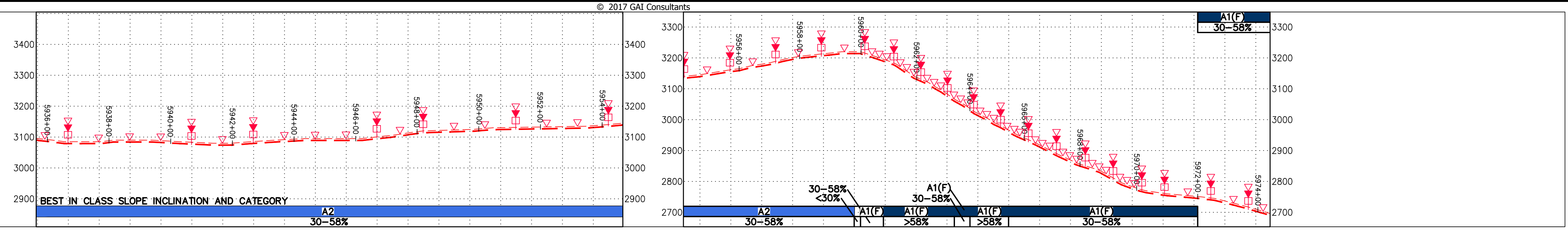
TASK NO.	SUB TASK NO.
005	00
GROUP ID	DRAWING NO.
D	E124

124 OF 344

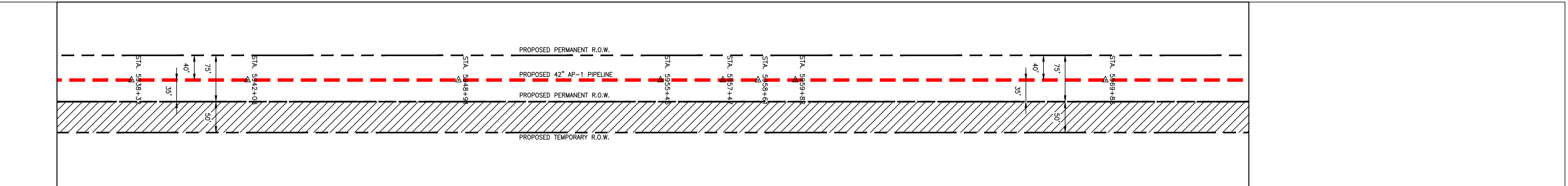
\\GAICONSULTANTS\LOCAL\BUPROJ\ENERGY\2014\C140468.00 - DOMINION - SOUTHEAST PIPE\CAD\MON FOREST REROUTE\DWG\PREVIOUS FERC FILING DWGS\ALIGNMENT SHEETS\C140468-00-000-00-E-E124-E128.DWG

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

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

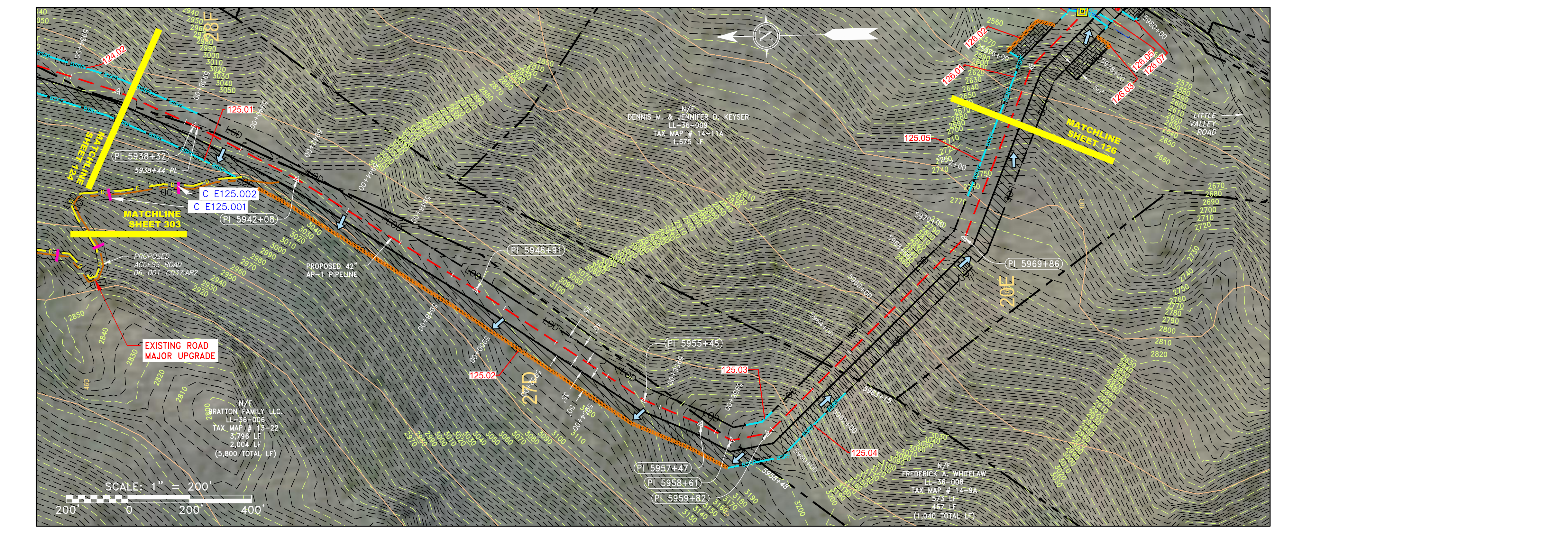


STATIONING &
CONSTRUCTION LIMITS



PROPERTY OWNERSHIP

N/F FREDERICK A. WHITELAW LL-36-008 TAX MAP # 14-9A 573 LF	N/F BRATTON FAMILY LLC. LL-36-006 TAX MAP # 13-22 2,004 LF	N/F FREDERICK A. WHITELAW LL-36-008 TAX MAP # 14-9A 467 LF	N/F DENNIS M. & JENNIFER D. KEYSER LL-36-009 TAX MAP # 14-11A 1,675 LF
--	--	--	--



NOT TO SCALE
PIPE SPECIFICATION

PIPE LEGEND

A	42" x 0.600" WT-X70 DSAW, FBE
B	42" x 0.720" WT-X70 DSAW, FBE
C	42" x 0.864" WT-X70 DSAW, FBE
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E	42" x 0.720" WT-X70 DSAW, 5 1/2" CC
F	42" x 0.864" WT-X70 DSAW, 4 1/2" CC
G	42" x 0.864" WT-X70 DSAW, 40 MIL PC

STRING VIEW BAND

LEGEND

	PROPERTY LINE		STORM SEWER
	FENCE		UNDERGROUND ELECTRIC
	STREAM		WATER LINE
	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)
	STORM SEWER		EXTRA WORK SPACE
	UNDERGROUND ELECTRIC		AREA OF NO DISTURBANCE
	WATER LINE		WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)
	SANITARY SEWER		UTILITY POLE
	EDGE OF GRAVEL		TOPSOIL SEGREGATION AREA
	PROPOSED PERMANENT EASEMENT		PROPOSED TEMPORARY R.O.W.

	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 FILTER 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 SLOPE INCLUSION
	CULVERT WATERBAR		

NOTES:

- COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY - UTM WITH NAD83 DATUM, ZONE 17, US SURVEY FOOT, CENTRAL MERIDIAN 81° W.
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REVISIONS

NO.	DATE	BY	CHKD.	APPD.	DESCRIPTION

42" AP-1 PIPELINE
CONSTRUCTION ALIGNMENT STA 5936+00 TO 5974+00
BATH COUNTY, VIRGINIA

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

SCALE: AS SHOWN
DATE: 4/26/17
DRAWN: STM
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

PROJECT NO./DASH NO.
140468

TASK NO.	SUB TASK NO.
005	00

GROUP ID DRAWING NO.
D E125

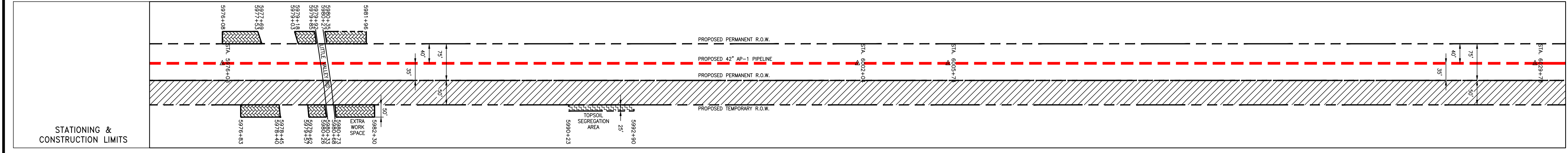
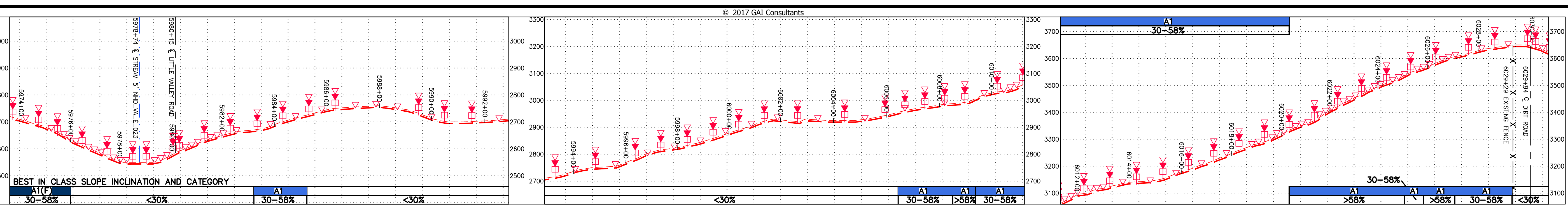
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\\GAICONSULTANTS\LOCAL\BUPROJ\ENERGY\2014\CAD\MON FOREST REROUTE\DWG_PREVIOUS FERC FILING DWGS_ALIGNMENT SHEETS\C140468-00-000-00-E-124-E128.DWG

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

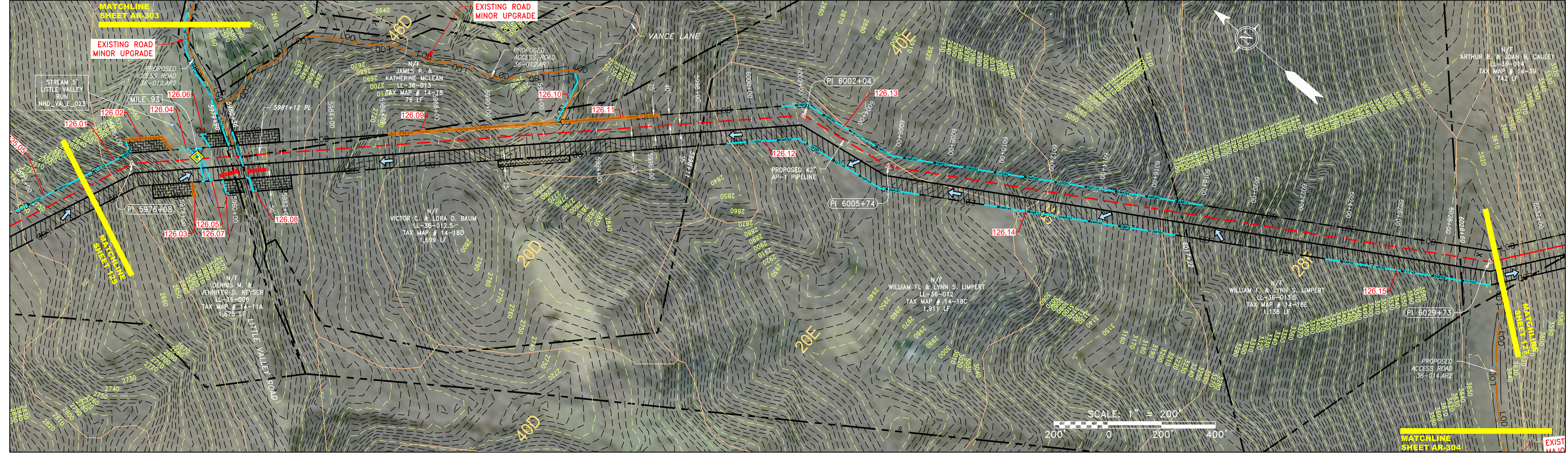
PROFILE VIEW
HORZ: 1" = 200'
VERT: 1" = 200'

BEST IN CLASS SLOPE INCLINATION AND CATEGORY



PROPERTY OWNERSHIP

DENNIS M. & JENNIFER D. KEYSER LL-36-009 TAX MAP # 14-11A 1,675 LF	N/F JAMES R. & KATHERINE MCLEAN LL-36-13 TAX MAP # 14-18 76 LF	VICTOR C. & LORA D. BAUM LL-36-012.5 TAX MAP # 14-18D 1,699 LF	WILLIAM F. & LYNN S. LIMPERT LL-36-013.5 TAX MAP # 14-18C 1,911 LF	WILLIAM F. & LYNN S. LIMPERT LL-36-013.5 TAX MAP # 14-18E 1,138 LF	ARTHUR B. & JOAN B. CAULEY LL-36-014 TAX MAP # 14-39 742 LF
---	--	---	---	---	--



PIPE SPECIFICATION

NOT TO SCALE
PIPE LEGEND
A 42" x 0.600" WT-X70 DSAW, FBE
B 42" x 0.720" WT-X70 DSAW, FBE
C 42" x 0.864" WT-X70 DSAW, FBE
D 42" x 0.600" WT-X70 DSAW, 6" CC
E 42" x 0.720" WT-X70 DSAW, 5 1/2" CC
F 42" x 0.864" WT-X70 DSAW, 4 1/2" CC
G 42" x 0.864" WT-X70 DSAW, 40 MIL PC

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
- UTILITY POLE
- TOPSOIL SEGREGATION AREA
- PROPOSED TEMPORARY R.O.W.
- LIMIT OF DISTURBANCE
- BELTED SILT RETENTION FENCE (BSRF)
- COMPOST FILTER SOCK
- SEDIMENT BARRIER IDENTIFICATION
- CULVERT IDENTIFICATION
- ORANGE SAFETY FENCE
- ROADSIDE DITCH
- SOIL TYPE
- TYPICAL BIC SLOPE CATEGORY SLOPE INCLINATION
- 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
- BSRF
- 111.03
- C 111.001
- ORANGE SAFETY FENCE
- ROADSIDE DITCH
- SOIL TYPE
- A1 (E)
- 30-58%

NOTES:

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REVISIONS

NO.	DATE	DWN.	CHKD.	APPRD.	DESCRIPTION

ERM

42" AP-1 PIPELINE
CONSTRUCTION ALIGNMENT STA 5974+00 TO 6030+00
BATH COUNTY, VIRGINIA

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

SCALE: AS SHOWN
DATE: 4/26/17
DRAWN: STM
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 DRAWING NO.
D E126

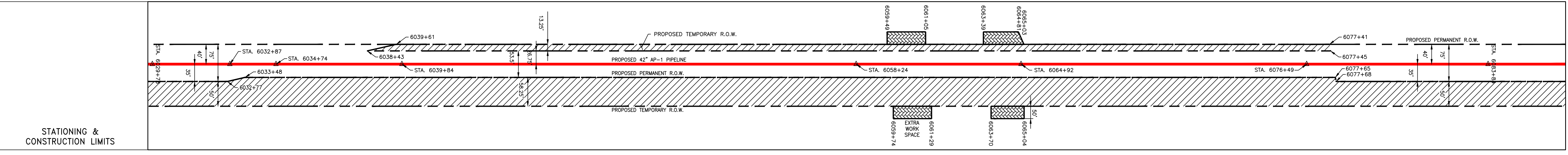
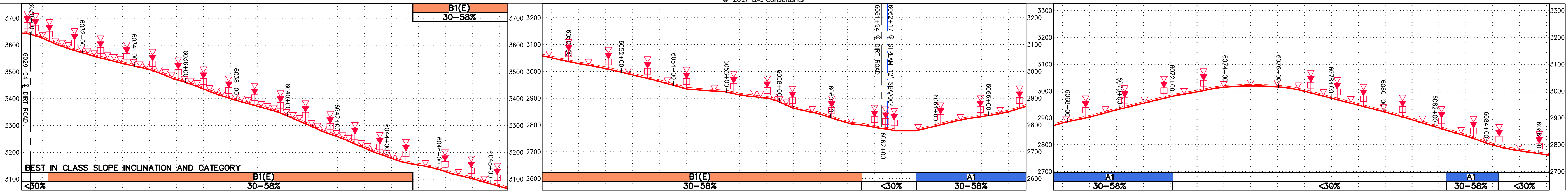
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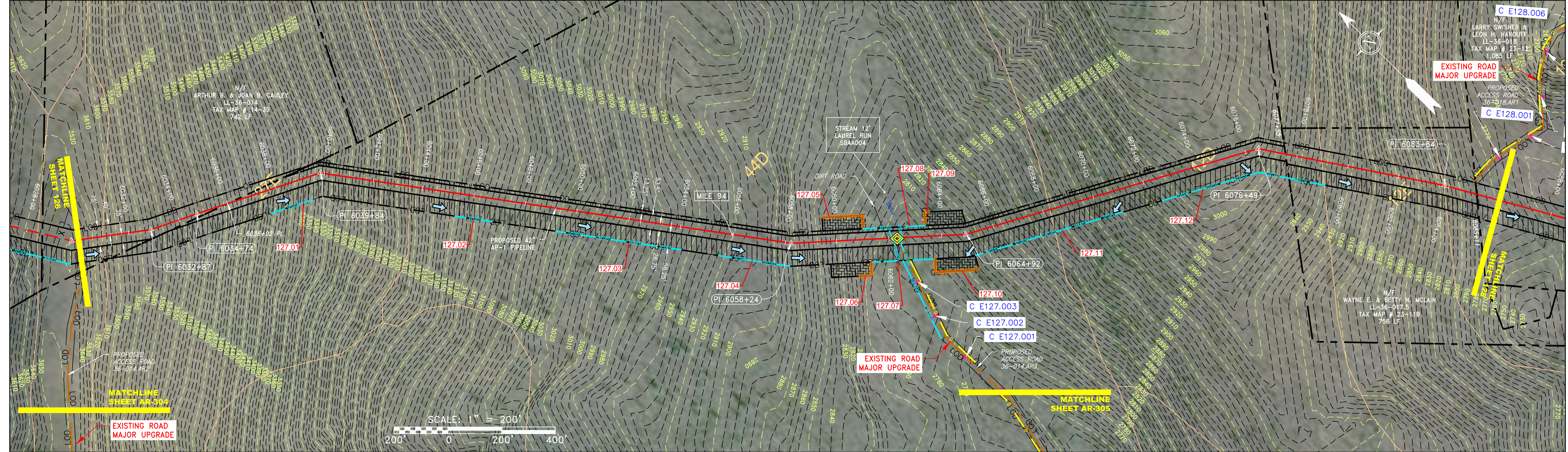
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NOTE:
STATIONING SHOWN ON THE
DRAWING IS BASED ON SLOPE
MEASUREMENTS.

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



PROPERTY OWNERSHIP	STATION	OWNER	AREA
ARTHUR B. & JOAN B. CAULEY LL-36-014 TAX MAP # 14-39 742 LF	STA 6030+00 TO 6032+00	N/A	
USDA FOREST SERVICE, SOUTHERN REGION (R8) LL-36-018 TAX MAP # GWNF 4,153 LF	STA 6032+00 TO 6077+45	N/A	
WAYNE E. & BETTY N. MCCLAIN LL-36-017.5 TAX MAP # 23-118 756 LF	STA 6077+45 TO 6078+11	N/A	
LARRY SWISHER & LEON H. HAROUFF LL-36-018 TAX MAP # 23-12 1,085 LF	STA 6078+11 TO 6080+00	N/A	



NOT TO SCALE
PIPE SPECIFICATION

PIPE LEGEND

A	42" x 0.600" WT-X70 DSAW, FBE
B	42" x 0.720" WT-X70 DSAW, FBE
C	42" x 0.864" WT-X70 DSAW, FBE
D	42" x 0.600" WT-X70 DSAW, 6" CC
E	42" x 0.720" WT-X70 DSAW, 5 1/2" CC
F	42" x 0.864" WT-X70 DSAW, 4 1/2" CC
G	42" x 0.864" WT-X70 DSAW, 40 MIL PC

STRING VIEW BAND

<p>LEGEND</p> <ul style="list-style-type: none"> PROPERTY LINE FENCE STREAM EXISTING GAS PIPELINE 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 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 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 BARRIER IDENTIFICATION CULVERT IDENTIFICATION ORANGE SAFETY FENCE ROADSIDE DITCH SOIL TYPE TYPICAL BIC SLOPE CATEGORY SLOPE INCLINATION 	<p>NOTES:</p> <ol style="list-style-type: none"> 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. ACCESS ROADS HAVE BEEN GROUPED INTO FOUR CATEGORIES: 1) EXISTING ROADS MINOR 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. 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.4.5 FEDERAL ENERGY REGULATORY COMMISSION (FERC) UPLAND EROSION CONTROL, VEGETATION, AND MAINTENANCE PLAN, SECTION V.4.5. 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	CHKD.	APPD.	DESCRIPTION

42" AP-1 PIPELINE
CONSTRUCTION ALIGNMENT STA 6030+00 TO 6080+00
BATH COUNTY, VIRGINIA

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

SCALE: AS SHOWN
DATE: 4/26/17
DRAWN: STM
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

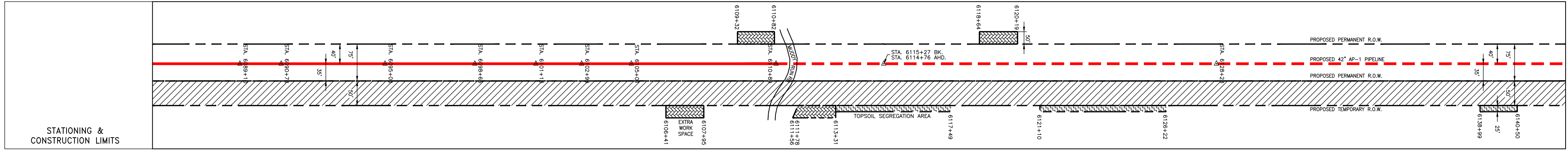
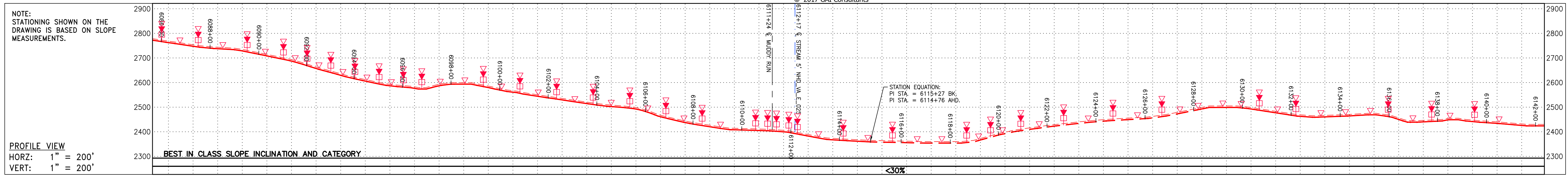
PROJECT NO./DASH NO.
140468

TASK NO.	SUB TASK NO.
005	00

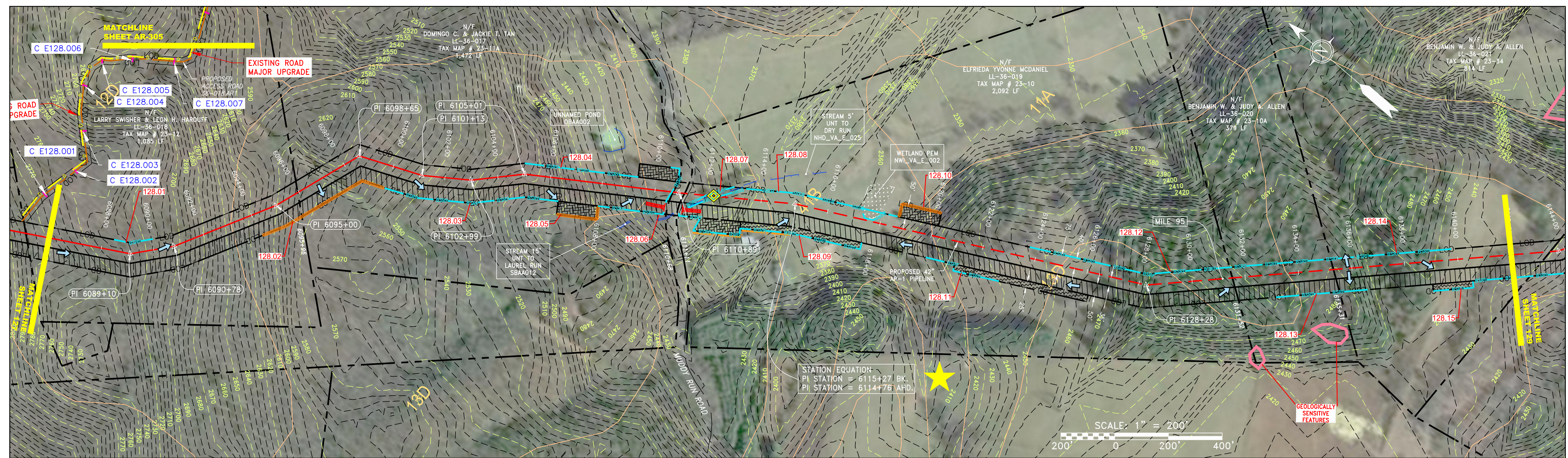
GROUP ID DRAWING NO.
D E127

127 OF 344

G:\CONSULTANTS\LOCAL\BUPRO\ENERGY\2014\C140468.00 - DOMINION - SOUTHEAST PIPE CAD\MON FOREST REROUTE.DWG - PREVIOUS FERC FILING DWGS - ALIGNMENT SHEETS\C140468-00-000-E-E124-E128.DWG



N/F LARRY SWISHER & LEON H. HAROFF LL-36-018 TAX MAP # 23-12 1,085 LF	N/F DOMINGO C. & JACKIE T. TAN LL-36-017 TAX MAP # 23-11A 1,472 LF	N/F ELFRIDA YVONNE MCDANIEL LL-36-019 TAX MAP # 23-10 2,092 LF	N/F BENJAMIN W. & JUDY A. ALLEN LL-36-020 TAX MAP # 23-10A 379 LF	N/F BENJAMIN W. & JUDY A. ALLEN LL-36-021 TAX MAP # 23-34 814 LF
---	--	--	---	--



NOT TO SCALE
 PIPE SPECIFICATION

PIPE LEGEND

A	42" x 0.600" WT-X70 DSAW, FBE
B	42" x 0.720" WT-X70 DSAW, FBE
C	42" x 0.864" WT-X70 DSAW, FBE
D	42" x 0.600" WT-X70 DSAW, 6" CC
E	42" x 0.720" WT-X70 DSAW, 5 1/2" CC
F	42" x 0.864" WT-X70 DSAW, 4 1/2" CC
G	42" x 0.864" WT-X70 DSAW, 40 MIL PC

STRING VIEW BAND

---	PROPERTY LINE	---	STORM SEWER
X-X	FENCE	---	UNDERGROUND ELECTRIC
---	STREAM	---	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)

LEGEND

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

NOTES:

- COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY - UTM WITH NAD83 DATUM, ZONE 17, US SURVEY FOOT, CENTRAL MERIDIAN 81° W, 11-07-2014.
- 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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- ACCESS ROADS HAVE BEEN GROUPED INTO FOUR CATEGORIES: 1) EXISTING ROADS MINOR 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.
- THE CONSTRUCTION RIGHT-OF-WAY (ROW) WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS IN ACCORDANCE WITH SECTION V.4.5 FEDERAL ENERGY REGULATORY COMMISSION (FERC) UPLAND EROSION CONTROL, REVEGETATION, AND MAINTENANCE PLAN, SECTION V.4.5. IN ADDITION, WETLAND AND WATERBODY CROSSINGS WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS IN ACCORDANCE WITH NATIONWIDE PERMIT 12 (NWP) ISSUED BY THE U.S. CORPS OF ENGINEERS.

NO.	DATE	BY	CHKD.	APPD.	DESCRIPTION

42" AP-1 PIPELINE
 CONSTRUCTION ALIGNMENT STA 6086+00 TO 6142+00
 BATH COUNTY, VIRGINIA

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

SCALE:	AS SHOWN
DATE:	4/26/17
DRAWN:	STM
CHECKED:	DLH
APPROVED:	NET

gai consultants

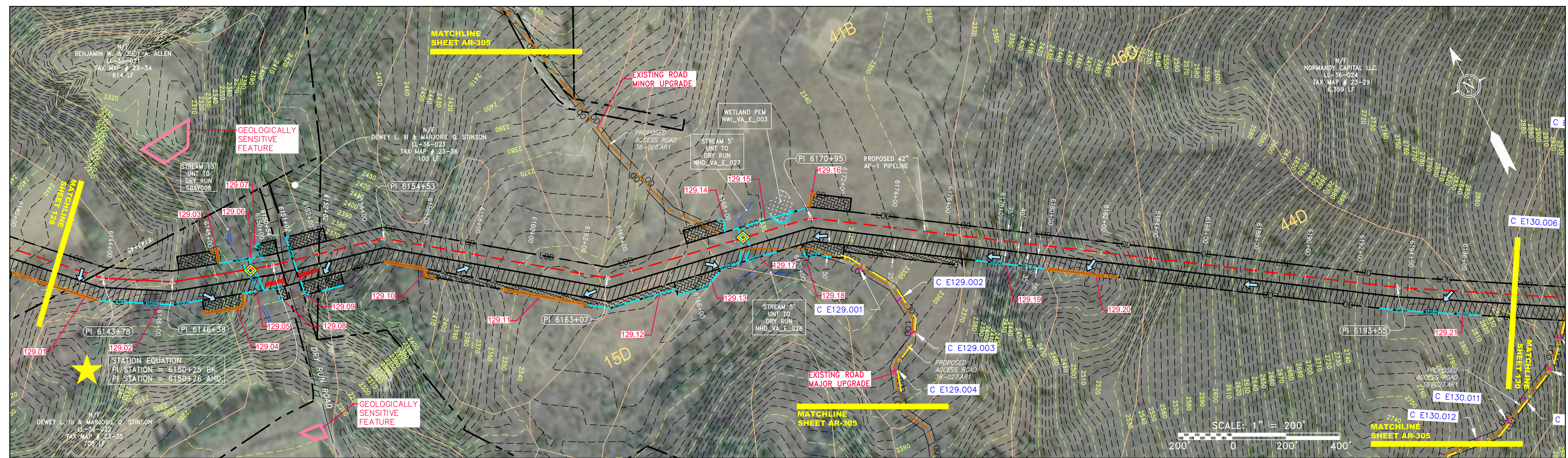
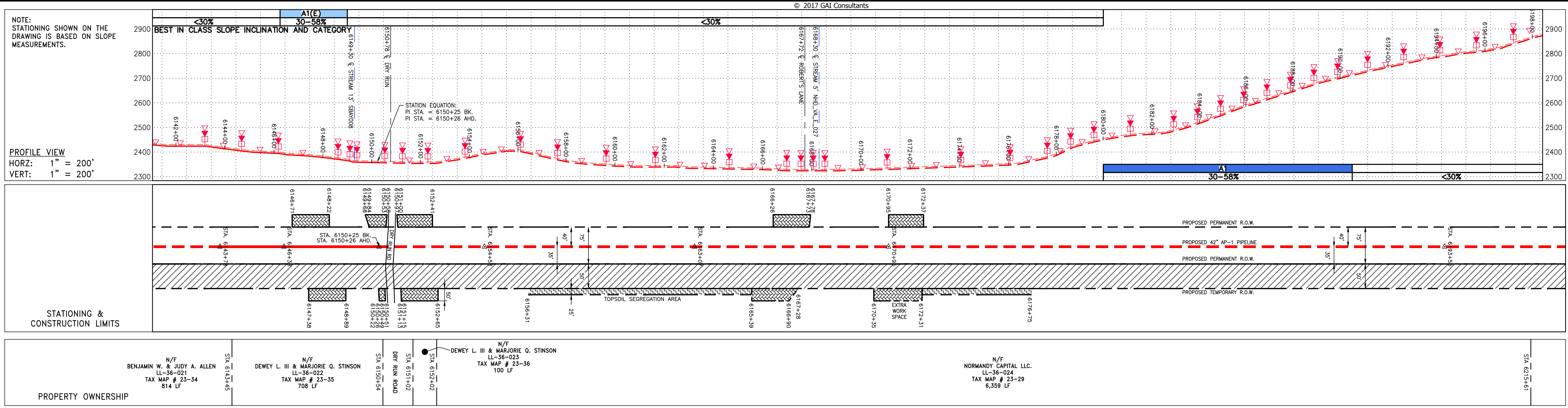
SOUTHPOINTE OFFICE
 6000 TOWN CENTER BLVD.
 SUITE 300 EAST
 CANONSBURG, PA 15317
 724-873-3545

mbe
 monaloh basin
 engineers

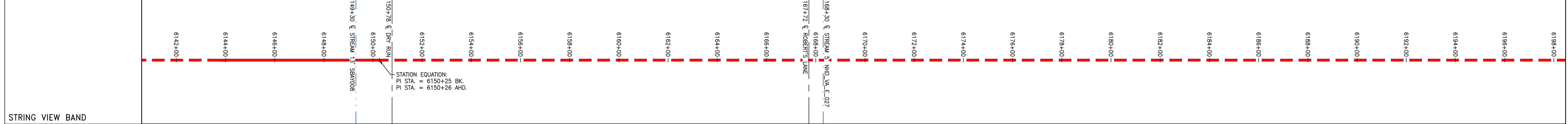
300 BUSINESS CENTER DRIVE
 PITTSBURGH, PA 15205
 412-788-2433

PROJECT NO./DASH NO.	140468	
TASK NO.	005	SUB TASK NO. 00
GROUP ID	D	DRAWING NO. E128
	128	OF 344

G:\CONSULTANTS\LOCAL\BUPROJ\ENERGY\2014\C140468.00 - DOMINION - SOUTHEAST PIPE\CAD\MON FOREST ROUTE\DWG_ALIGNMENT SHEETS\C140468-00-000-00-E-129-E133.DWG



NOT TO SCALE
PIPE SPECIFICATION



<p>LEGEND</p> <ul style="list-style-type: none"> — PROPERTY LINE X 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 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 LOO 3SRP 111.03 C 111.001 ORANGE SAFETY FENCE ROADSIDE DITCH SOIL TYPE TYPICAL BIC SLOPE CATEGORY SLOPE INCLINATION 	<p>NOTES:</p> <ol style="list-style-type: none"> 1. COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY - UTM WITH NAD83 DATUM, ZONE 17, US SURVEY FOOT, CENTRAL MERIDIAN 81° W. 2. CONTOURS AND TOPOGRAPHIC FEATURES WERE DERIVED FROM LIDAR DATA AND GPS SUB-METER GROUND SURVEY PERFORMED BY GAI CONSULTANTS, INC FROM 11-03-2014 THRU 11-07-2014. 3. IMAGERY TAKEN FROM GOOGLE EARTH. 4. THE PROPERTY LINES SHOWN 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 3) NEW ROADS. APPROPRIATE EROSION AND SEDIMENTATION CONTROLS WILL BE PROVIDED FOR ROADS IN CATEGORIES 1 AND 2. 10. EROSION CONTROL ELEMENTS SHALL BE PLACED IN AREAS OF 30% SLOPE AND GREATER, WHICH ARE INDICATED ON THE BEST IN CLASS STEEP SLOPES BAND. 11. BEST IN CLASS (BIC) STEEP SLOPE CATEGORY INFORMATION CAN BE FOUND IN THE APPENDIX OF THE STORMWATER POLLUTION PREVENTION PLAN. 12. HAVE ADEQUATE EXISTING DRAINAGE FEATURES WILL BE PROVIDED FOR ROADS IN CATEGORIES 3 AND 4. 13. 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. 14. 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.
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REVISIONS		DESCRIPTION
NO.	DATE	DWN. CHKD. APPD.

42" AP-1 PIPELINE
CONSTRUCTION ALIGNMENT STA 6142+00 TO 6198+00
BATH COUNTY, VIRGINIA

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

SCALE: AS SHOWN
DATE: 4/27/17
DRAWN: STM
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

PROJECT NO./DASH NO.
140468

TASK NO.	SUB TASK NO.
005	00

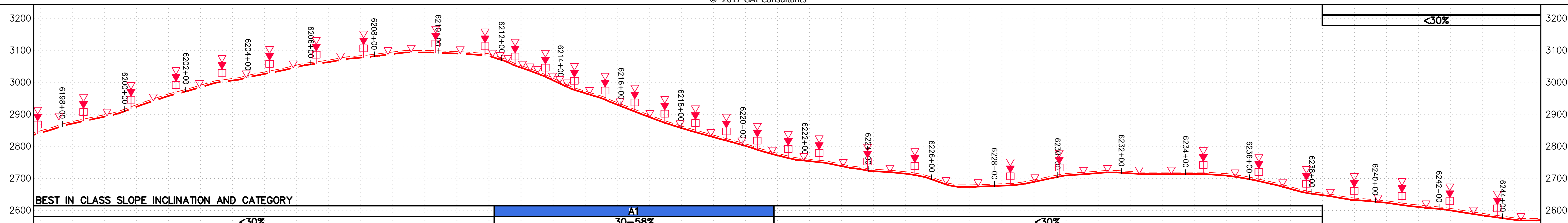
GROUP ID DRAWING NO.
D E129

129 OF 344

G:\CONSULTANTS\LOCAL\BUPROJ\ENERGY\2014\C140468.00 - DOMINION - SOUTHEAST PIPE\CAD\MON FOREST REROUTE\DWG_PREVIOUS FERC FILING DWGS_ALIGNMENT SHEETS\C140468-00-000-00-E-129-E-133.DWG

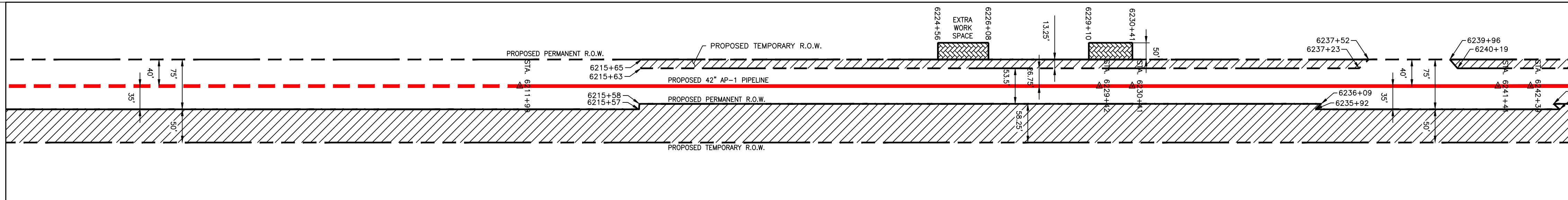
NOTE:
STATIONING SHOWN ON THE
DRAWING IS BASED ON SLOPE
MEASUREMENTS.

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

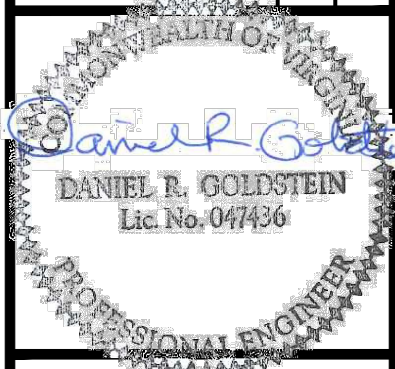
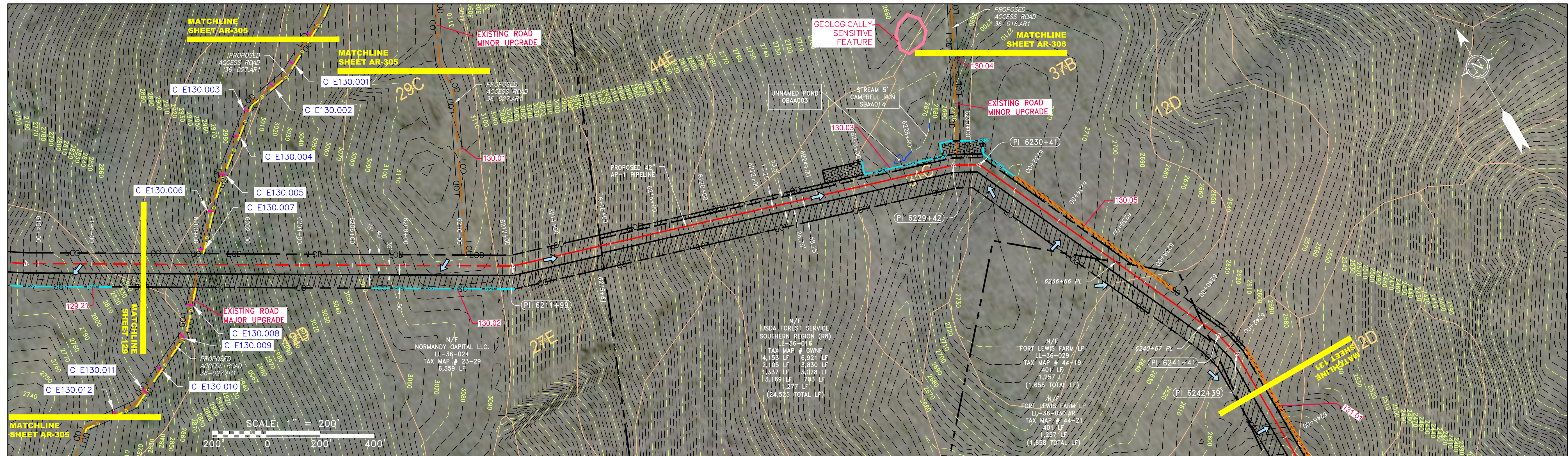


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STATIONING &
CONSTRUCTION LIMITS



PROPERTY OWNERSHIP	STATIONING	DESCRIPTION
N/F NORMANDY CAPITAL LLC. LL-36-024 TAX MAP # 23-29 6,359 LF	19+52.92	via
N/F USDA FOREST SERVICE, SOUTH REGION (RB) LL-36-016 TAX MAP # 09NF 2,105 LF	6215+00	6229+00
N/F USDA FOREST SERVICE, SOUTH REGION (RB) LL-36-016 TAX MAP # 09NF 1,149 LF	6229+00	6244+00



42" AP-1 PIPELINE
CONSTRUCTION ALIGNMENT STA 6198+00 TO 6244+00
BATH COUNTY, VIRGINIA
ATLANTIC COAST PIPELINE, LLC
C/O DOMINION TRANSMISSION, INC.
925 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330

SCALE: AS SHOWN
DATE: 4/27/17
DRAWN: STM
CHECKED: DLH
APPROVED: NET



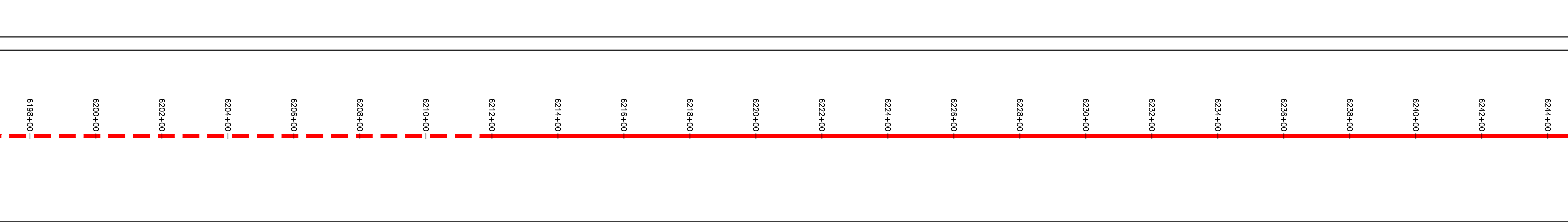
SOUTHPOINTE OFFICE
6000 TOWN CENTER BLVD.
SUITE 300 EAST
CANONSBURG, PA 15317
724-873-3545



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.	E130
130 OF 344	

NOT TO SCALE
PIPE SPECIFICATION



LEGEND

— X — X —	FENCE	— E —	UNDERGROUND ELECTRIC	— W —	WATER LINE	— G — G —	EXISTING GAS PIPELINE	— OH —	OVERHEAD UTILITY LINES	— A — A —	ACCESS ROAD	— P — P —	PROPOSED GAS PIPELINE	— W — W —	PROPOSED PERMANENT EASEMENT	— S — S —	SANITARY SEWER	— G — G —	EDGE OF GRAVEL	— P — P —	PROPOSED PERMANENT R.O.W.	— T — T —	TOPSOIL SEGREGATION AREA	— A — A —	AREA OF NO DISTURBANCE	— W — W —	WETLAND	— U — U —	UTILITY POLE
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▲	PERMANENT WATERBAR/SLOPE BREAKER	— L — L —	LIMIT OF DISTURBANCE
▲	TEMPORARY WATERBAR/SLOPE BREAKER	— B — B —	BELTED SILT RETENTION FENCE (BSRF)
— T — T —	TRENCH BREAKER/PLUG	— S — S —	SEDIMENT FILTER SOCK
— C — C —	STREAM CROSSING	— I — I —	COMPOST IDENTIFICATION
— E — E —	USFWS STREAM CROSSING WITH ENHANCED CONTROLS	— C — C —	CULVERT IDENTIFICATION
— S — S —	SEEP	— O — O —	ORANGE SAFETY FENCE
— D — D —	SLOPE DIRECTION	— R — R —	ROADSIDE DITCH
— C — C —	CONSTRUCTION ENTRANCE WITH DITCH	— S — S —	SOIL TYPE
— C — C —	CULVERT AS NEEDED	— T — T —	TYPICAL BIC SLOPE CATEGORY
— W — W —	CULVERT WATERBAR	— I — I —	SLOPE INCLINATION

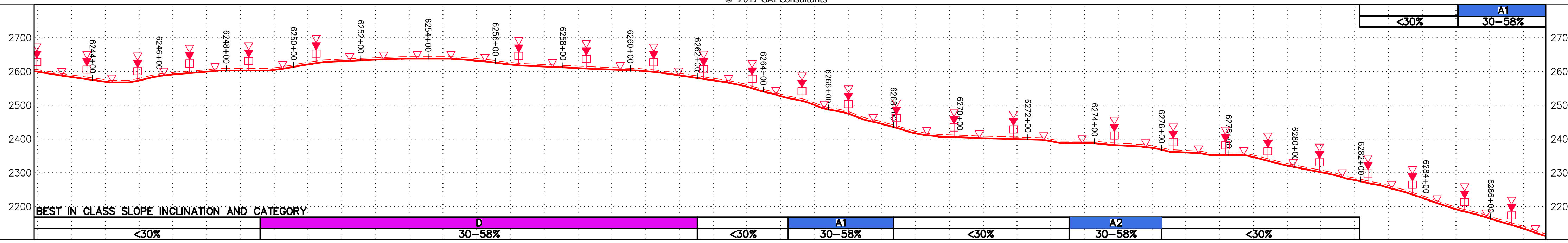
NOTES:

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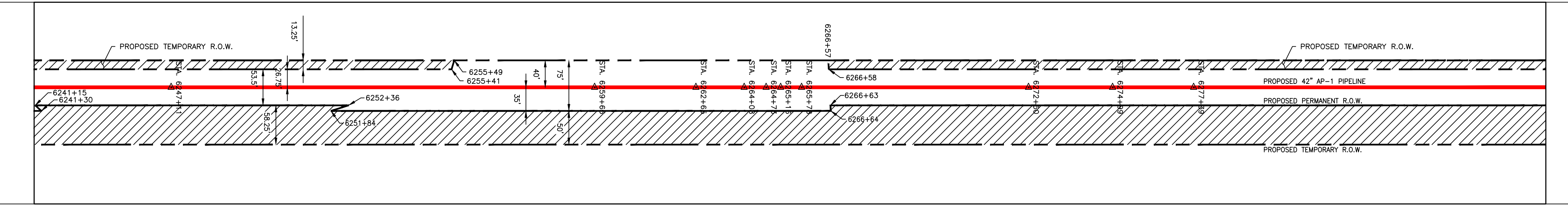
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NOTE:
STATIONING SHOWN ON THE
DRAWING IS BASED ON SLOPE
MEASUREMENTS.

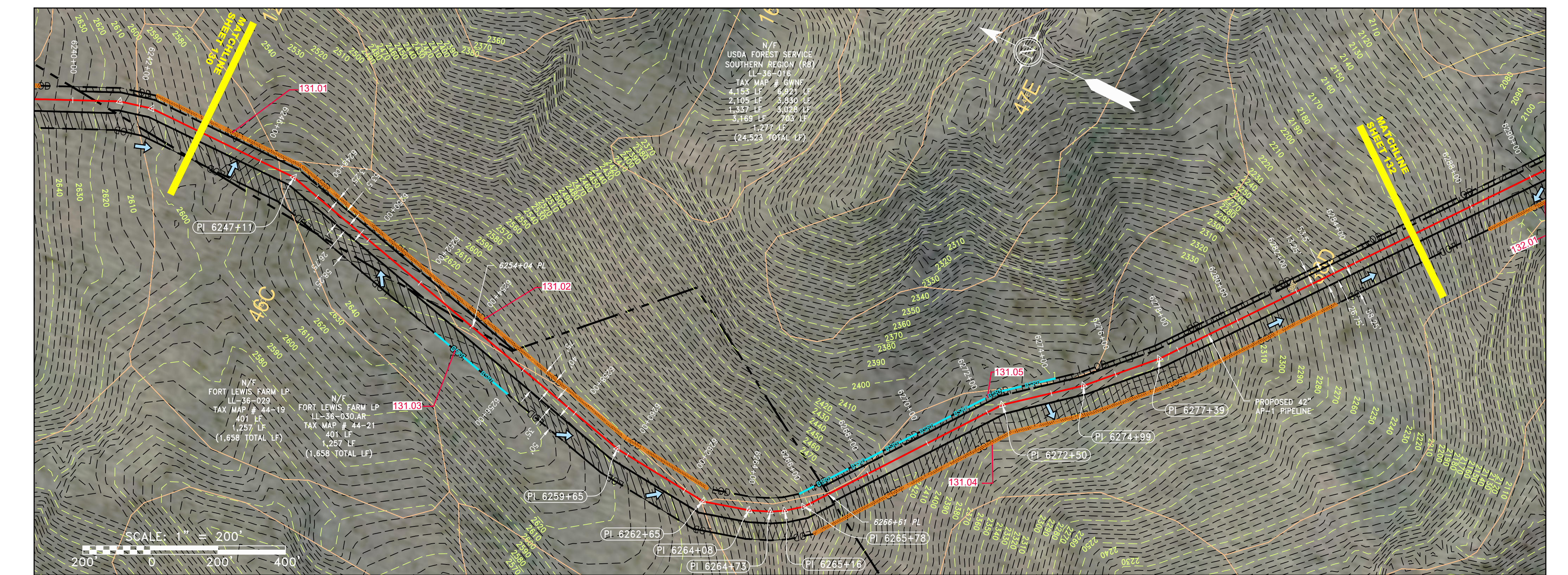
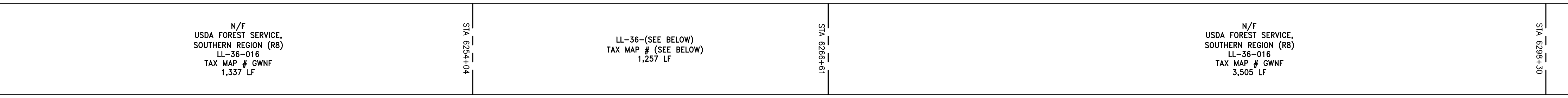
PROFILE VIEW
HORZ: 1" = 200'
VERT: 1" = 200'



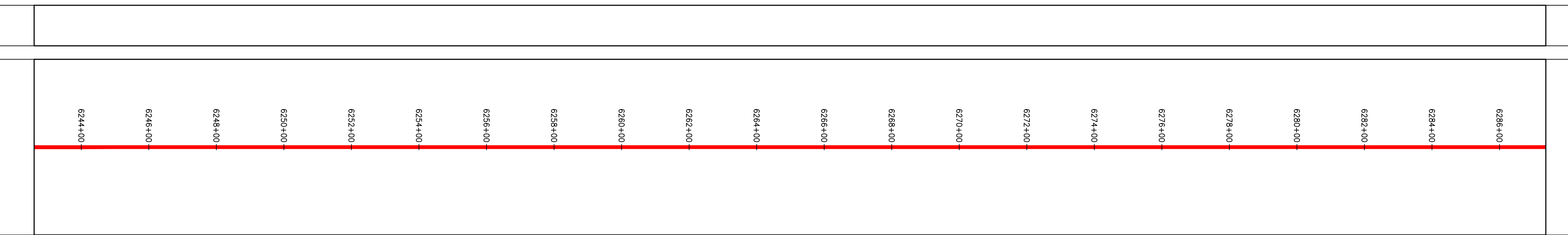
STATIONING &
CONSTRUCTION LIMITS



PROPERTY OWNERSHIP



NOT TO SCALE
PIPE SPECIFICATION



STRING VIEW BAND

LEGEND

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

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

PERMANENT WATERBAR/SLOPE BREAKER
 TEMPORARY WATERBAR/SLOPE BREAKER
 TRENCH BREAKER/PLUG
 STREAM CROSSING
 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

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 1 AND 2.
- HAVE ADEQUATE EXISTING DRAINAGE FEATURES 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.

NO.	DATE	CHKD.	APPD.	DESCRIPTION

Daniel L. Goldstein
 Daniel L. Goldstein
 Lic. No. 047436
 ERM

42" AP-1 PIPELINE
 CONSTRUCTION ALIGNMENT STA 6244+00 TO 6286+00
 BATH COUNTY, VIRGINIA

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

SCALE: AS SHOWN
 DATE: 4/27/17
 DRAWN: STM
 CHECKED: DLH
 APPROVED: NET

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

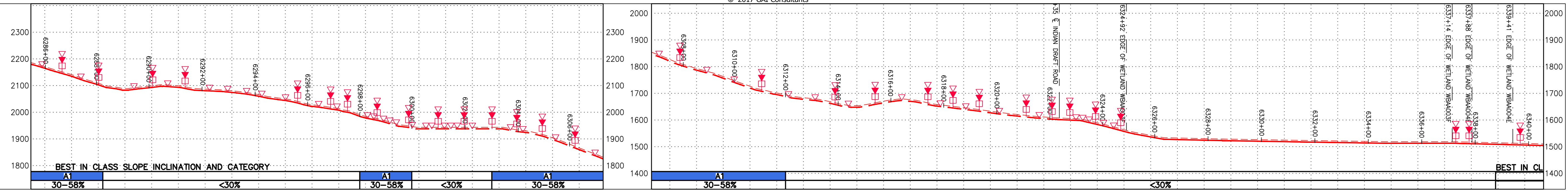
mbe
 monaloh basin
 engineers
 300 BUSINESS CENTER DRIVE
 PITTSBURGH, PA 15205
 412-788-2433

PROJECT NO./DASH NO.
 140468
 TASK NO. SUB TASK NO.
 005 00
 GROUP ID DRAWING NO.
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 131 OF 344

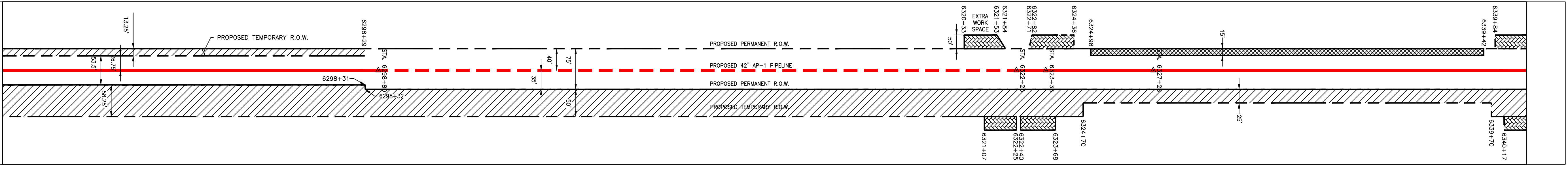
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NOTE:
STATIONING SHOWN ON THE
DRAWING IS BASED ON SLOPE
MEASUREMENTS.

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

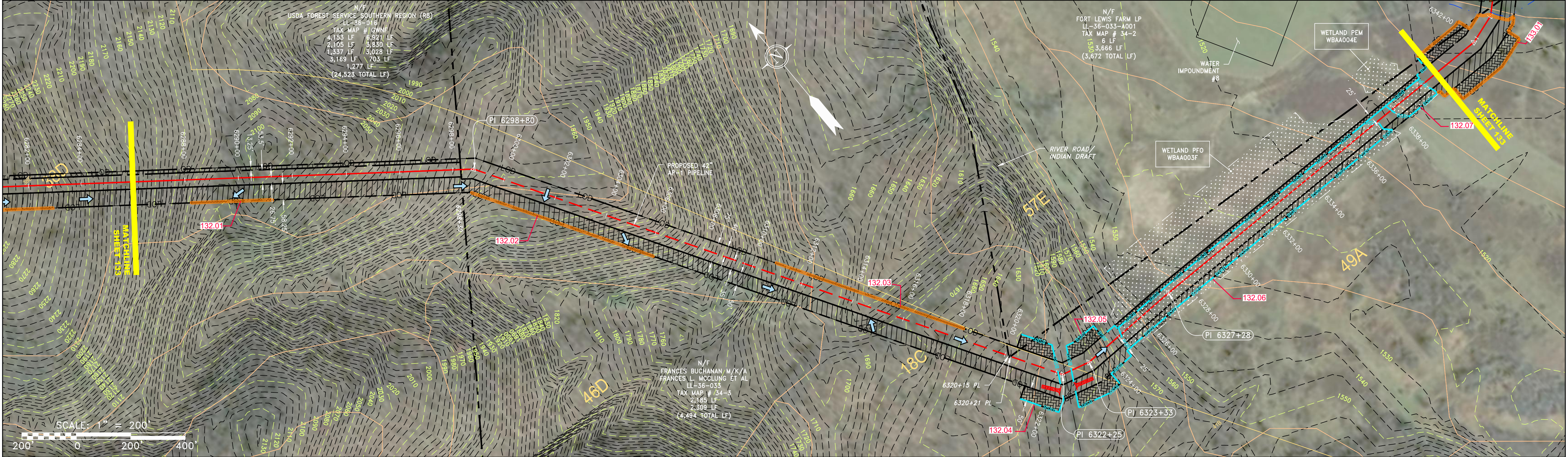


STATIONING &
CONSTRUCTION LIMITS

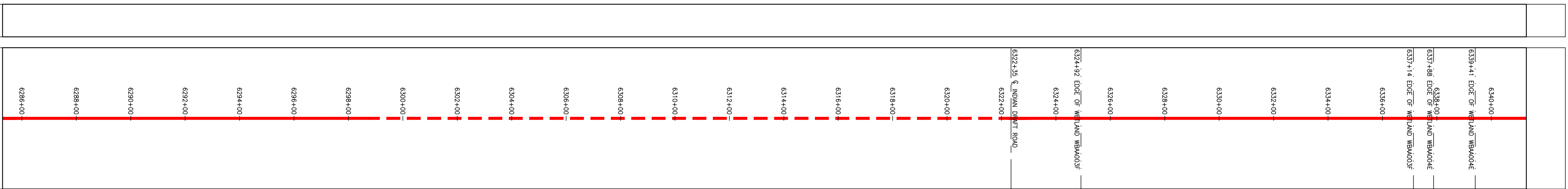


PROPERTY OWNERSHIP

USDA FOREST SERVICE, SOUTHERN REGION (RB) LL-36-016 TAX MAP # 04NF 3,169 LF	N/F FRANCES BUCHANAN M/K/A FRANCES L. MCCLUNG ET AL LL-36-033 TAX MAP # 34-3 2,185 LF	N/F FORT LEWIS FARM LP LL-36-033-A001 TAX MAP # 34-2 6 LF	N/F FRANCES BUCHANAN M/K/A FRANCES L. MCCLUNG ET AL LL-36-033 TAX MAP # 34-3 2,309 LF
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NOT TO SCALE
PIPE SPECIFICATION



LEGEND

<ul style="list-style-type: none"> PROPERTY LINE FENCE STREAM EXISTING GAS PIPELINE OVERHEAD UTILITY LINES ACCESS ROAD PROPOSED GAS PIPELINE 	<ul style="list-style-type: none"> STORM SEWER UNDERGROUND ELECTRIC WATER LINE SANITARY SEWER EDGE OF GRAVEL PROPOSED PERMANENT EASEMENT PROPOSED GAS PIPELINE (NO GROUND SURVEY) 	<ul style="list-style-type: none"> EXTRA WORK SPACE AREA OF NO DISTURBANCE WETLAND 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"> 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. ACCESS ROADS HAVE BEEN GROUPED INTO FOUR CATEGORIES - 1) EXISTING ROADS MINOR 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. ALL ROADS IN CATEGORIES 1 AND 2 SHALL BE RESTORED TO PRE-CONSTRUCTION CONTOURS IN ACCORDANCE WITH 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. ERM IS SOLELY RESPONSIBLE FOR THE NATURE AND LOCATION OF THE DEPICTED BMPs AS OF THE DATE SIGNED AND SEALED BASED ON THE SOURCE DATA PROVIDED AND AS DESCRIBED IN THE NOTES SECTION OF THE INDEX SHEET OF THIS PLAN SET. THE CONSTRUCTION RIGHT-OF-WAY (ROW) WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS IN ACCORDANCE WITH SECTION V.A.5. IN ADDITION, WETLAND AND WATERBODY CROSSINGS WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS IN ACCORDANCE WITH NATIONWIDE PERMIT 12 (NWP) ISSUED BY THE U.S. CORPS OF ENGINEERS.
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NO.	DATE	APPD.	CHKD.	DESCRIPTION

42" AP-1 PIPELINE
CONSTRUCTION ALIGNMENT STA 6286+00 TO 6340+00
BATH COUNTY, VIRGINIA

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

SCALE: AS SHOWN
DATE: 4/27/17
DRAWN: STM
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

PROJECT NO./DASH NO.
140468

TASK NO. SUB TASK NO.
005 00

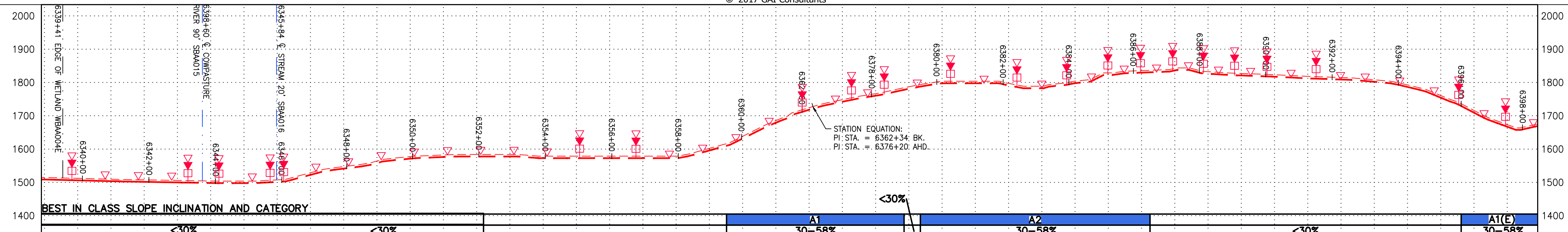
GROUP ID DRAWING NO.
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132 OF 344

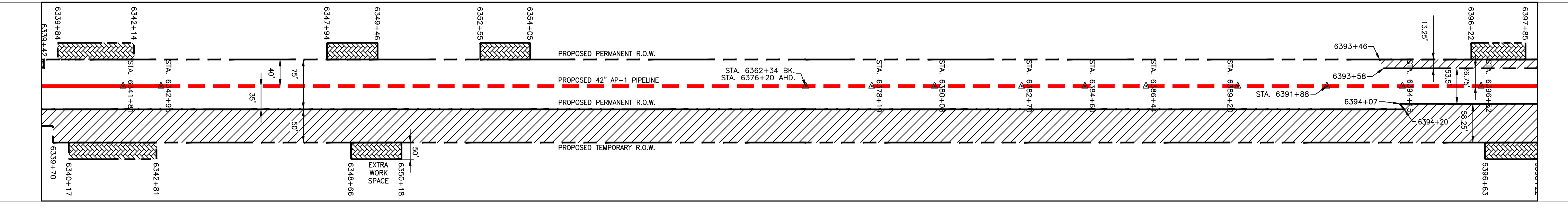
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NOTE: STATIONING SHOWN ON THE DRAWING IS BASED ON SLOPE MEASUREMENTS.

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

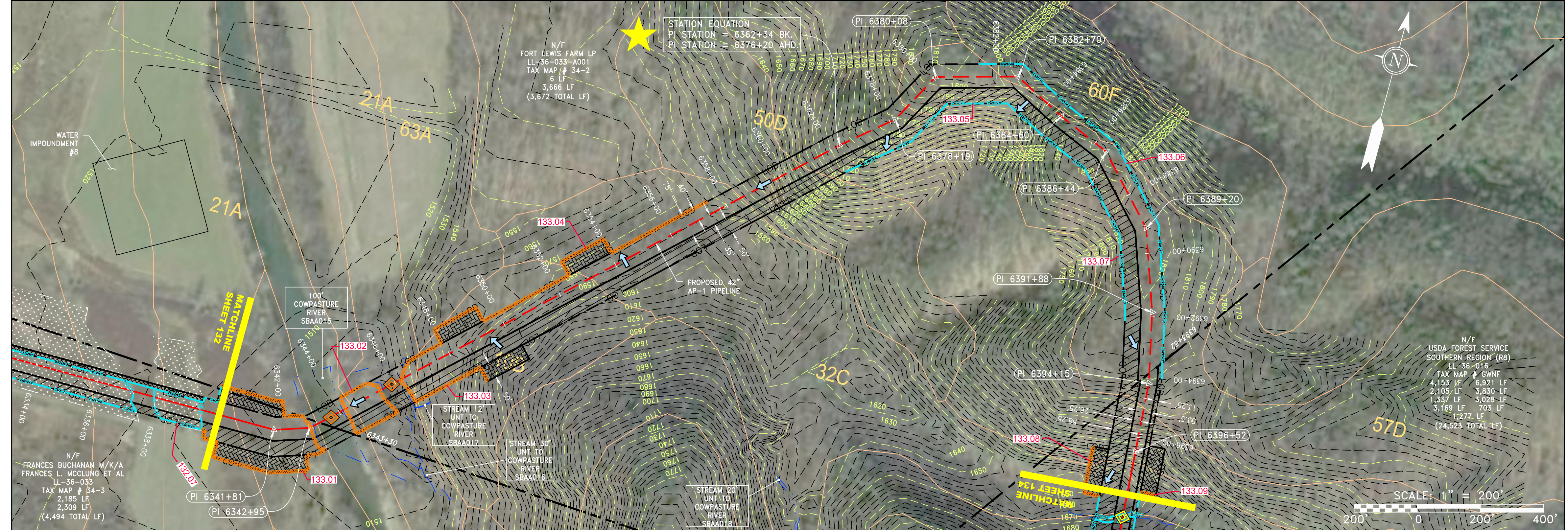


STATIONING & CONSTRUCTION LIMITS

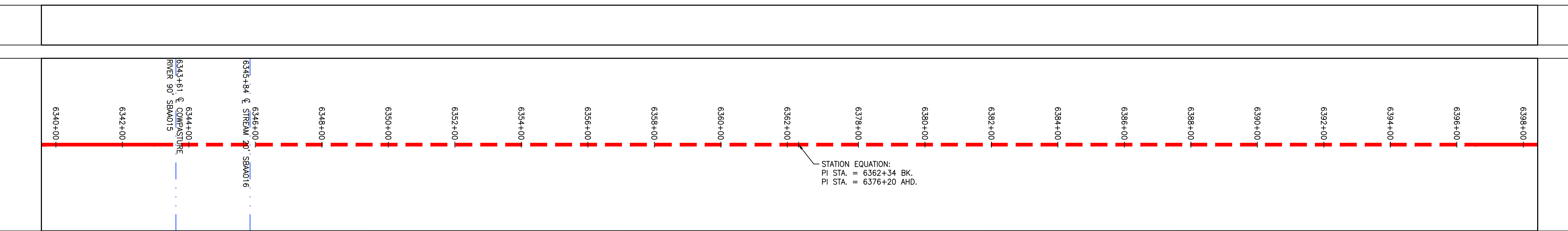


PROPERTY OWNERSHIP

Property ownership details including owner names and acreage: N/F FRANCES BUCHANAN M/K/A FRANCES L. MCCLUNG ET AL (2,309 LF), N/F FORT LEWIS FARM LP (3,666 LF), and N/F USDA FOREST SERVICE, SOUTHERN REGION (R8) (6,921 LF).



NOT TO SCALE
PIPE SPECIFICATION



LEGEND table with symbols for 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, UTILITY POLE, TOPSOIL SEGREGATION AREA, PROPOSED TEMPORARY R.O.W., 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 BARRIER IDENTIFICATION, CULVERT IDENTIFICATION, ORANGE SAFETY FENCE, ROADSIDE DITCH, SOIL TYPE, TYPICAL BIC SLOPE CATEGORY, SLOPE INCLINATION.

NOTES: 1. COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY... 2. CONTOURS AND TOPOGRAPHIC FEATURES WERE DERIVED FROM LIDAR DATA... 3. IMAGERY TAKEN FROM GOOGLE EARTH... 4. THE PROPERTY LINES SHOWN ARE BASED ON GIS & TAX ASSESSMENT RECORDS... 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... 7. ALL STATIONING SHOWN IS SLOPE STATIONING... 8. SILT FENCE AND FILTER SOCK SHALL BE INSTALLED PARALLEL TO CONTOUR TO EXTENT PRACTICABLE... 9. EROSION CONTROL MATTING SHALL BE PLACED IN AREAS OF 30% SLOPE AND GREATER... 10. ACCESS ROADS HAVE BEEN GROUPED INTO FOUR CATEGORIES... 11. ERM IS SOLELY RESPONSIBLE FOR THE NATURE AND LOCATION OF THE DEPICTED BIMPS... 12. THE CONSTRUCTION RIGHT-OF-WAY (ROW) WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS... 13. THE CONSTRUCTION RIGHT-OF-WAY (ROW) WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS...

NOTES: 1. COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY... 2. CONTOURS AND TOPOGRAPHIC FEATURES WERE DERIVED FROM LIDAR DATA... 3. IMAGERY TAKEN FROM GOOGLE EARTH... 4. THE PROPERTY LINES SHOWN ARE BASED ON GIS & TAX ASSESSMENT RECORDS... 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... 7. ALL STATIONING SHOWN IS SLOPE STATIONING... 8. SILT FENCE AND FILTER SOCK SHALL BE INSTALLED PARALLEL TO CONTOUR TO EXTENT PRACTICABLE... 9. EROSION CONTROL MATTING SHALL BE PLACED IN AREAS OF 30% SLOPE AND GREATER... 10. ACCESS ROADS HAVE BEEN GROUPED INTO FOUR CATEGORIES... 11. ERM IS SOLELY RESPONSIBLE FOR THE NATURE AND LOCATION OF THE DEPICTED BIMPS... 12. THE CONSTRUCTION RIGHT-OF-WAY (ROW) WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS... 13. THE CONSTRUCTION RIGHT-OF-WAY (ROW) WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS...

REVISIONS table with columns for NO., DATE, DWN., CHKD., APPD., and DESCRIPTION.

42" AP-1 PIPELINE
CONSTRUCTION ALIGNMENT STA 6340+00 TO 6398+00
BATH COUNTY, VIRGINIA
ATLANTIC COAST PIPELINE, LLC
C/O DOMINION TRANSMISSION, INC.
925 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330

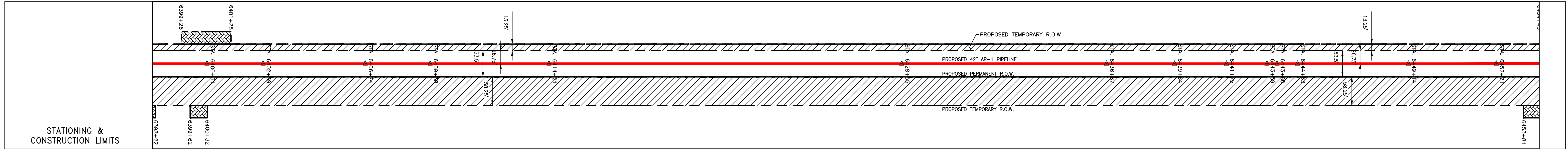
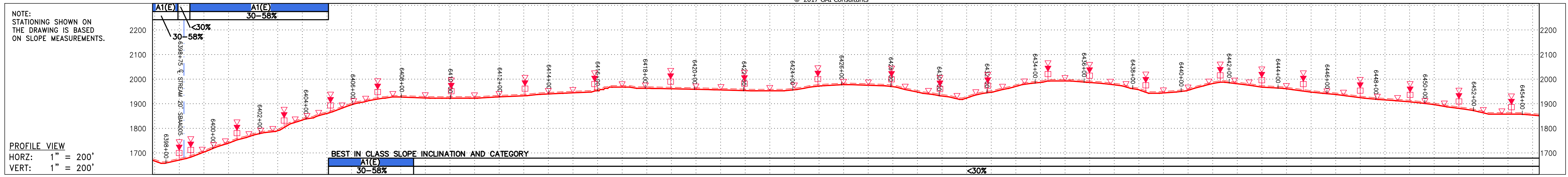
SCALE: AS SHOWN
DATE: 4/27/17
DRAWN: STM
CHECKED: DLH
APPROVED: NET

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

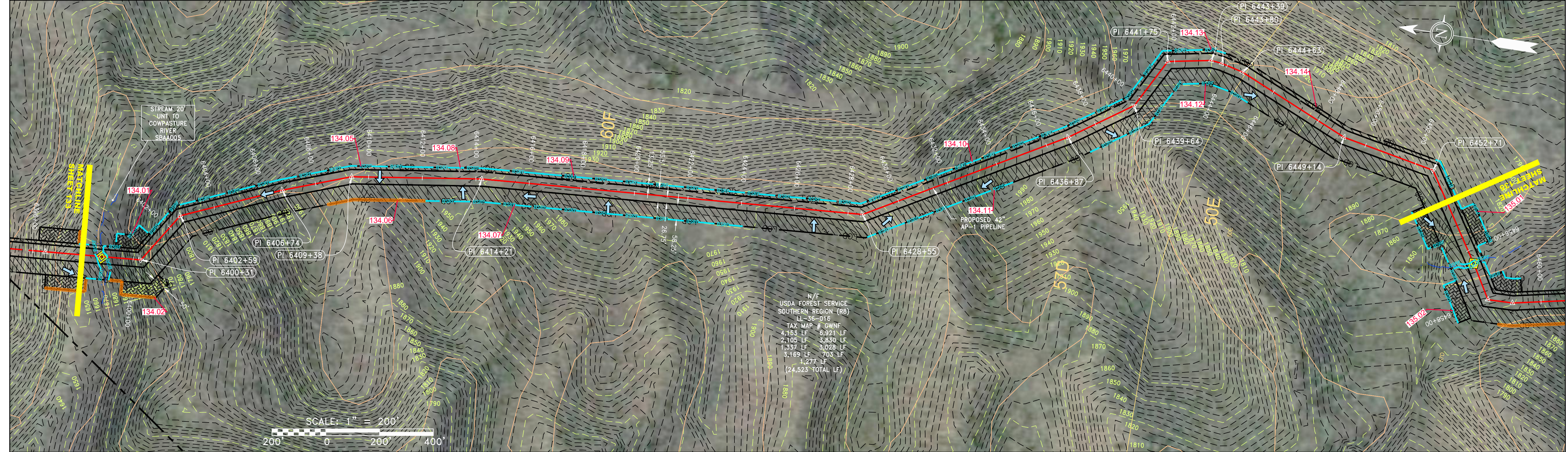
mbe
monahon basin
engineers
300 BUSINESS CENTER DRIVE
PITTSBURGH, PA 15205
412-788-2433

PROJECT NO./DASH NO.
140468
TASK NO. SUB TASK NO.
005 00
GROUP ID DRAWING NO.
D E133
133 OF 344

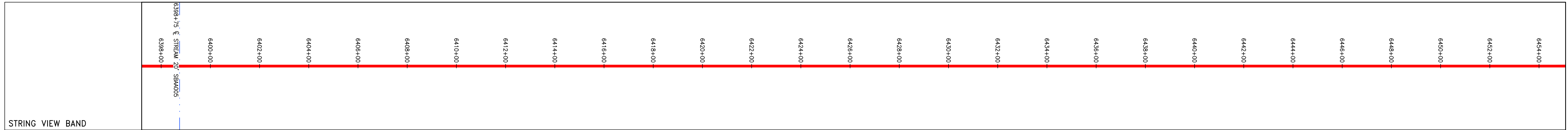
GAICONCONSULTANTS\LOCAL\BUPROJ\ENERGY\2014\CAD\MON FOREST REROUTE\DWG_PREVIOUS FERC FILING DWGS_ALIGNMENT SHEETS\C140468-00-000-00-E-E134-E138.DWG



PROPERTY OWNERSHIP: N/F USDA FOREST SERVICE, SOUTHERN REGION (R8) LL-36-016 TAX MAP # GWNF 6,921 LF



NOT TO SCALE PIPE SPECIFICATION



LEGEND table with columns for symbols and descriptions. Includes categories for PROPERTY LINE, FENCE, STREAM, EXISTING GAS PIPELINE, OVERHEAD UTILITY LINES, ACCESS ROAD, PROPOSED GAS PIPELINE, STORM SEWER, UNDERGROUND ELECTRIC, WATER LINE, SANITARY SEWER, EDGE OF GRAVEL, PROPOSED PERMANENT EASEMENT, PROPOSED GAS PIPELINE (NO GROUND SURVEY), EXTRA WORK SPACE, TOPSOIL SEGREGATION AREA, AREA OF NO DISTURBANCE, 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 BARRIER IDENTIFICATION, CULVERT IDENTIFICATION, ORANGE SAFETY FENCE, ROADSIDE DITCH, SOIL TYPE, TYPICAL BIC SLOPE CATEGORY SLOPE INCLINATION.

NOTES: 1. COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY... 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. BEST IN CLASS (BIC) STEEP SLOPE CATEGORY INFORMATION CAN BE FOUND IN THE APPENDIX OF THE STORMWATER POLLUTION PREVENTION PLAN. 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. 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 1 AND 2. HAVE ADEQUATE EXISTING DRAINAGE; DRAINAGE FEATURES WILL BE PROVIDED FOR ROADS IN CATEGORIES 3 AND 4. 12. ERM IS SOLELY RESPONSIBLE FOR THE NATURE AND LOCATION OF THE DEPICTED 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.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.

REVISIONS table with columns for NO., DATE, DWN., CHKD., APPVD., DESCRIPTION.

42" AP-1 PIPELINE
CONSTRUCTION ALIGNMENT STA 6398+00 TO 6454+00
BATH COUNTY, VIRGINIA
ATLANTIC COAST PIPELINE, LLC
C/O DOMINION TRANSMISSION, INC.
925 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330

SCALE: AS SHOWN
DATE: 4/26/17
DRAWN: STM
CHECKED: DLH
APPROVED: NET

gai consultants

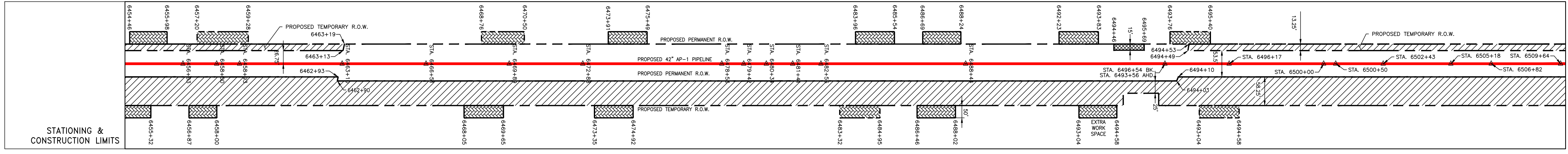
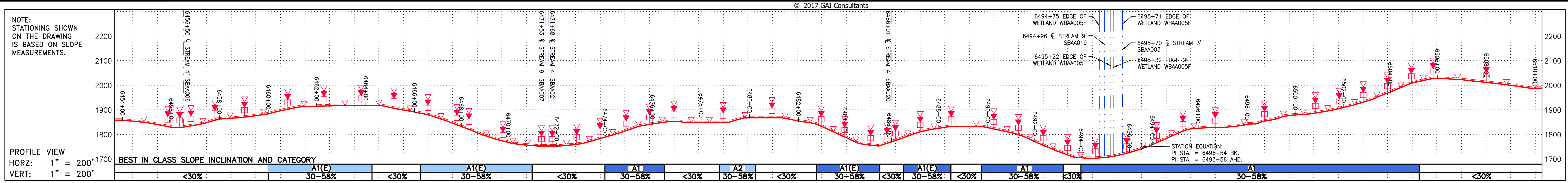
SOUTHPOINTE OFFICE
6000 TOWN CENTER BLVD.
SUITE 300 EAST
CANONSBURG, PA 15317
724-873-3545

mbe monaloh basin engineers

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

PROJECT NO./DASH NO. 140468
TASK NO. 005 SUB TASK NO. 00
GROUP ID D DRAWING NO. E134
134 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-E134-E138.DWG

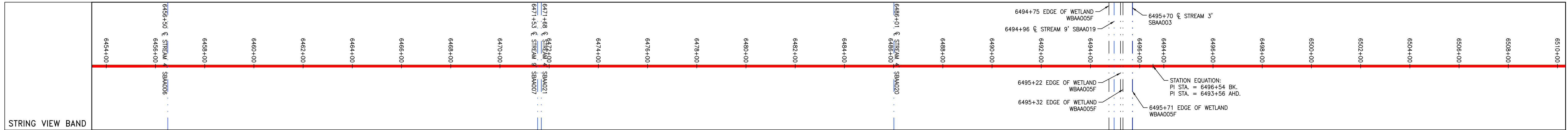


PROPERTY OWNERSHIP	USDA FOREST SERVICE, SOUTHERN REGION (R8) LL-36-016 TAX MAP # GWNF 6,921 LF	FORT LEWIS FARM LP. LL-36-029 TAX MAP # 44-19 3,429 LF	USDA FOREST SERVICE, SOUTHERN REGION (R8) LL-36-016 TAX MAP # GWNF 3,850 LF
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NOT TO SCALE

PIPE SPECIFICATION



LEGEND

— — — — —	PROPERTY LINE	— — — — —	STORM SEWER	▨	EXTRA WORK SPACE	▨	TOPSOIL SEGREGATION AREA
X — 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	— — — — —	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.
- 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 FEATURES WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS IN CATEGORIES 3 AND 4.
- ERM IS SOLELY RESPONSIBLE FOR THE NATURE AND LOCATION OF THE DEPICTED BMPs AS OF THE DATE SIGNED AND SEALED BASED ON THE SOURCE DATA PROVIDED AND AS DESCRIBED IN THE NOTES SECTION OF THE INDEX SHEET OF THIS PLAN SET.
- THE CONSTRUCTION RIGHT-OF-WAY (ROW) WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS IN ACCORDANCE WITH SECTION V.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.

REVISIONS

NO.	DATE	BY	CHKD.	APPD.	DESCRIPTION

ERM

SCALE: AS SHOWN
 DATE: 4/26/17
 DRAWN: STM
 CHECKED: DLH
 APPROVED: NET

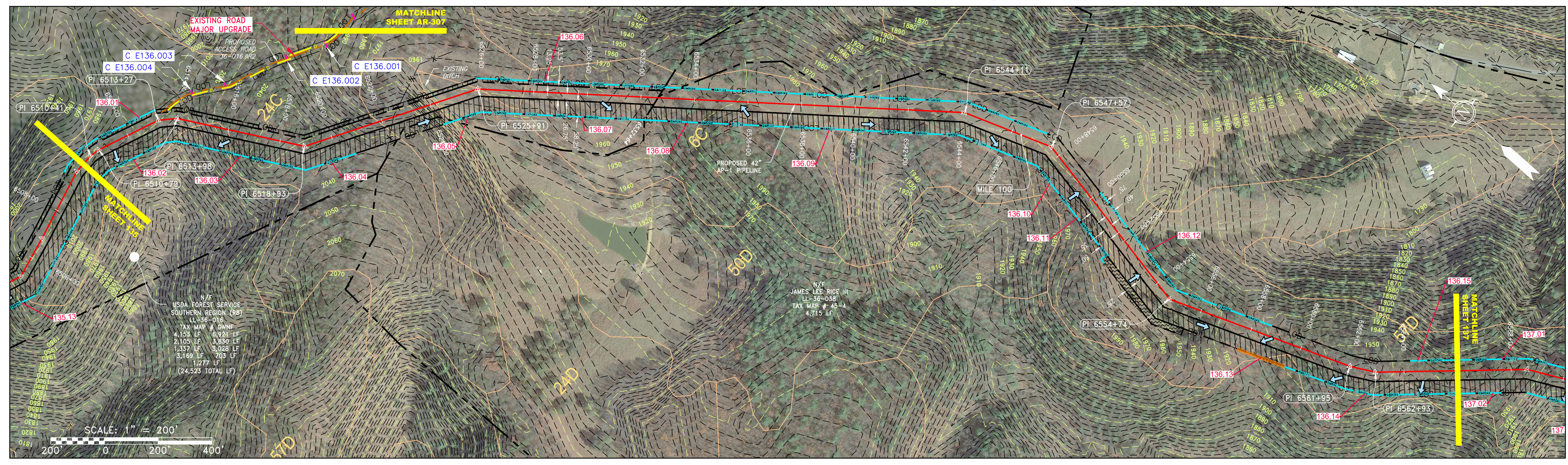
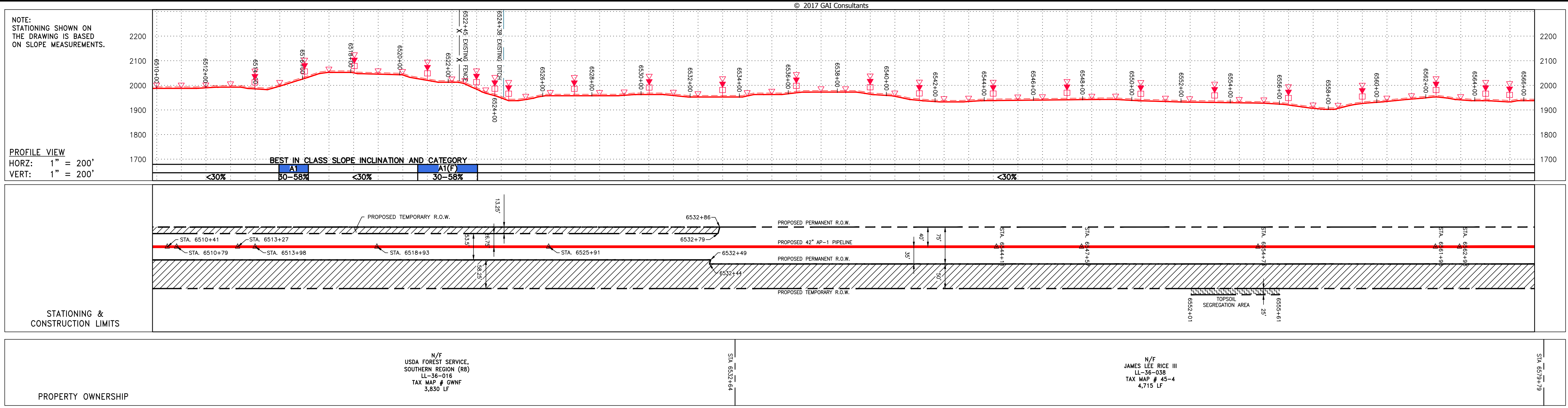
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140468

TASK NO. SUB TASK NO.
005 00

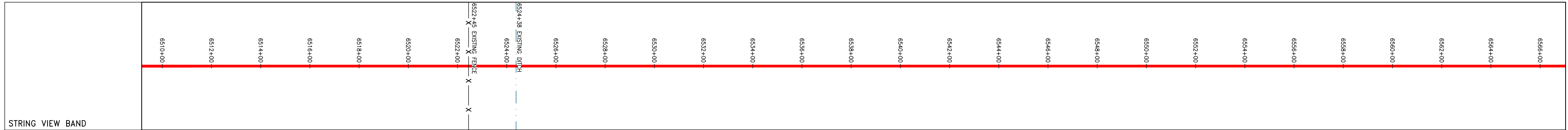
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D E135

135 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-134-E-138.DWG



NOT TO SCALE
PIPE SPECIFICATION



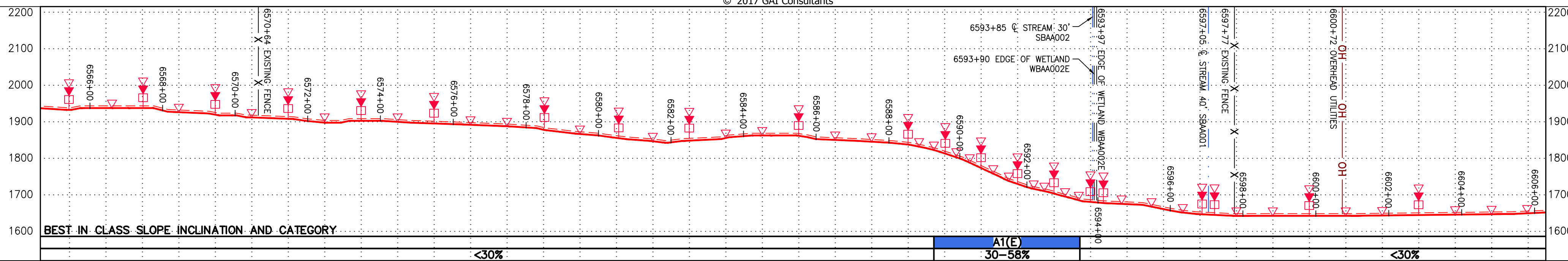
<p>LEGEND</p> <ul style="list-style-type: none"> --- PROPERTY LINE X-X FENCE --- STREAM -C- EXISTING GAS PIPELINE OH OVERHEAD UTILITY LINES --- ACCESS ROAD --- PROPOSED GAS PIPELINE --- STORM SEWER --- UNDERGROUND ELECTRIC --- WATER LINE --- SANITARY SEWER --- EDGE OF GRAVEL --- PROPOSED PERMANENT EASEMENT --- PROPOSED GAS PIPELINE (NO GROUND SURVEY) 	<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 3SRP 111.03 C 111.001 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. 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. 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. ERM IS SOLELY RESPONSIBLE FOR THE NATURE AND LOCATION OF THE DEPICTED BICPS 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.4.5 FEDERAL ENERGY REGULATORY COMMISSION (FERC) UPLAND EROSION CONTROL, REVEGETATION, AND MAINTENANCE PLAN, SECTION V.4.5. 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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<p>© 2017 GAI Consultants</p>	<p>REVISIONS</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>BY</th> <th>CHKD.</th> <th>APPD.</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	NO.	DATE	BY	CHKD.	APPD.	DESCRIPTION						
NO.	DATE	BY	CHKD.	APPD.	DESCRIPTION								
<p>ERM</p>													
<p>CONSTRUCTION ALIGNMENT STA 6510+00 TO 6566+00 BATH COUNTY, VIRGINIA</p>													
<p>ATLANTIC COAST PIPELINE, LLC C/O DOMINION TRANSMISSION, INC. 925 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330</p>													
<p>SCALE: AS SHOWN DATE: 4/26/17 DRAWN: STM CHECKED: DLH APPROVED: NET</p>													
<p>SOUTHPOINTE OFFICE 6000 TOWN CENTER BLVD. SUITE 300 EAST CANONSBURG, PA 15317 724-873-3545</p>													
<p>300 BUSINESS CENTER DRIVE PITTSBURGH, PA 15205 412-788-2433</p>													
<p>PROJECT NO./DASH NO. 140468</p>													
<p>TASK NO. SUB TASK NO. 005 00</p>													
<p>GROUP ID DRAWING NO. D E136</p>													
<p>136 OF 344</p>													

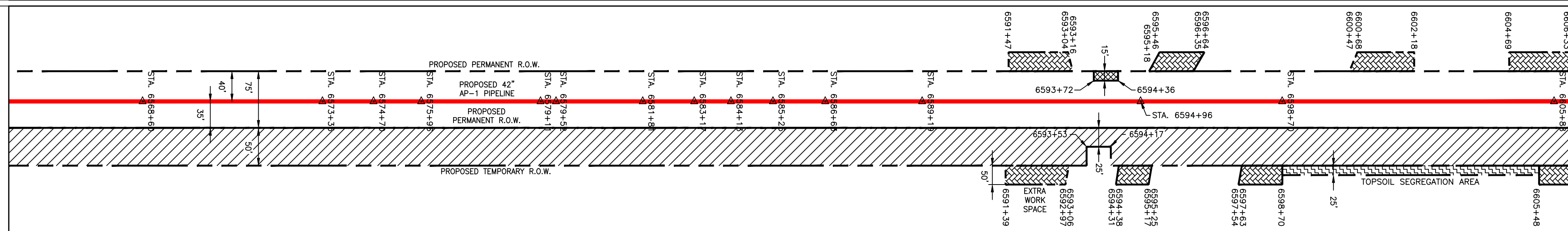
G:\CONSULTANTS\LOCAL\BUPROJ\ENERGY\2014\C140468.00 - DOMINION - SOUTHEAST PIPE\CAD\MON FOREST ROUTE\DWG_PREVIOUS FERC FILING DWGS_ALIGNMENT SHEETS\C140468-00-000-00-E-134-E-138.DWG

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

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

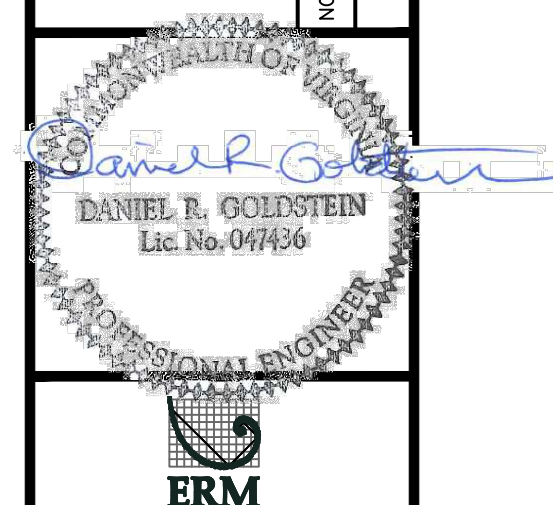
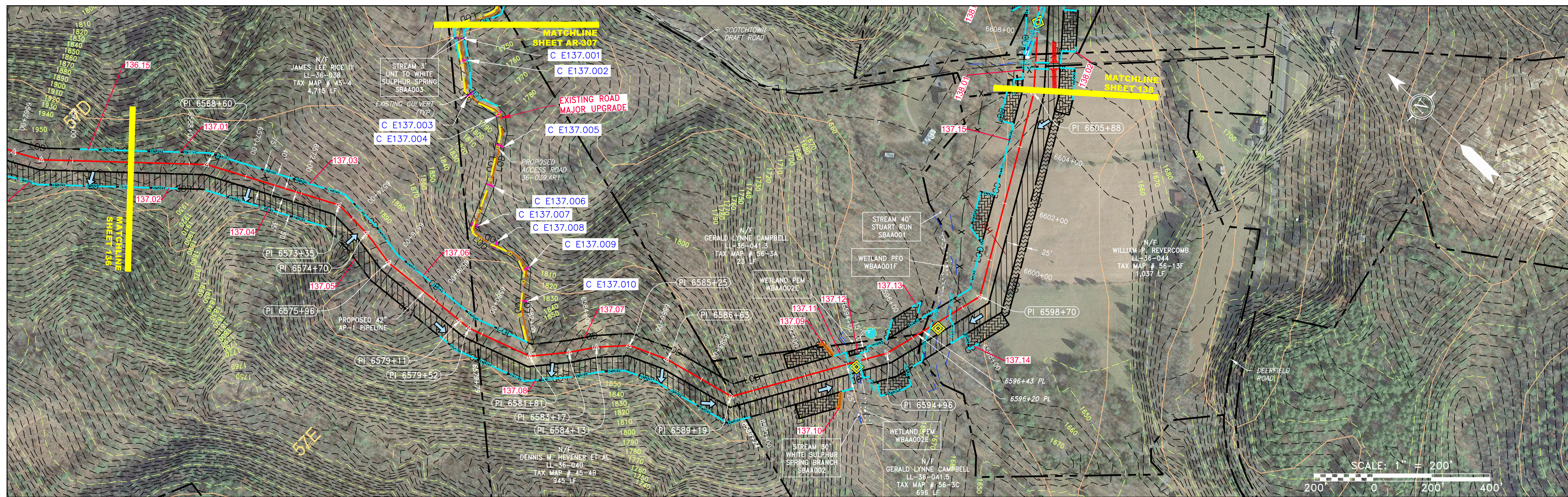


STATIONING &
CONSTRUCTION LIMITS



PROPERTY OWNERSHIP

N/F JAMES LEE RICE III LL-36-038 TAX MAP # 45-4 4,715 LF	SIA 6573+79	N/F DENNIS M. HEVENER ET AL LL-36-040 TAX MAP # 45-4B 945 LF	SIA 6589+24	N/F GERALD LYNNE CAMPBELL LL-36-041.5 TAX MAP # 56-3C 696 LF	SIA 6596+20	N/F GERALD LYNNE CAMPBELL LL-36-041.3 TAX MAP # 56-3A 23 LF	SIA 6596+43	N/F WILLIAM P. REVERCOMB LL-36-044 TAX MAP # 56-13F 1,037 LF	SIA 6600+00
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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

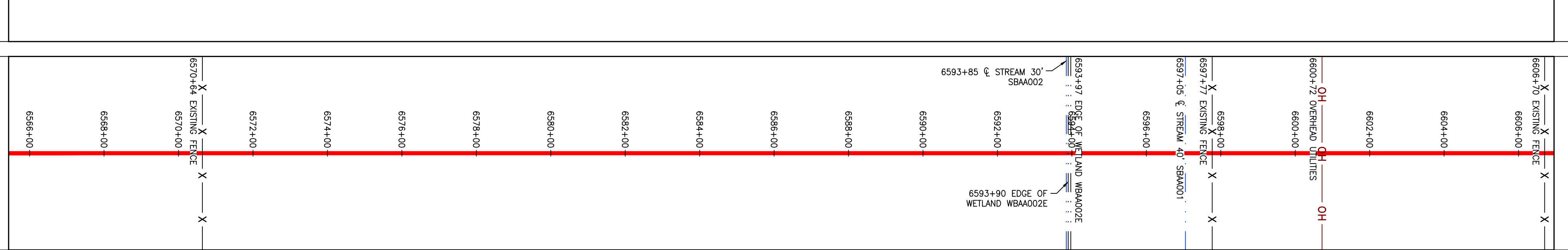
SCALE: AS SHOWN
DATE: 4/26/17
DRAWN: CJF
CHECKED: DLH
APPROVED: NET

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

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

NOT TO SCALE
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.
--- STREAM	W WATER LINE	--- WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)	--- UTILITY POLE
G-G EXISTING GAS PIPELINE	SAN SANITARY SEWER		
OH OVERHEAD UTILITY LINES	--- EDGE OF GRAVEL		
--- ACCESS ROAD	--- PROPOSED PERMANENT EASEMENT		
--- PROPOSED GAS PIPELINE	--- PROPOSED GAS PIPELINE (NO GROUND SURVEY)		

▲ PERMANENT WATERBAR/SLOPE BREAKER	▲ 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 BARRIER IDENTIFICATION	--- CULVERT IDENTIFICATION	--- ORANGE SAFETY FENCE	--- ROADSIDE DITCH	--- SOIL TYPE	--- TYPICAL BIC SLOPE CATEGORY	--- SLOPE INCLINATION

NOTES:

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GAICONCONSULTANTS.LOCAL\BUPROJ\ENERGY\2014\C140468.00 - DOMINION - SOUTHEAST PIPE CAD\MON FOREST ROUTE\DWG - PREVIOUS FERC FILING DWGS - ALIGNMENT SHEETS\C140468-00-000-E-E134-E138.DWG

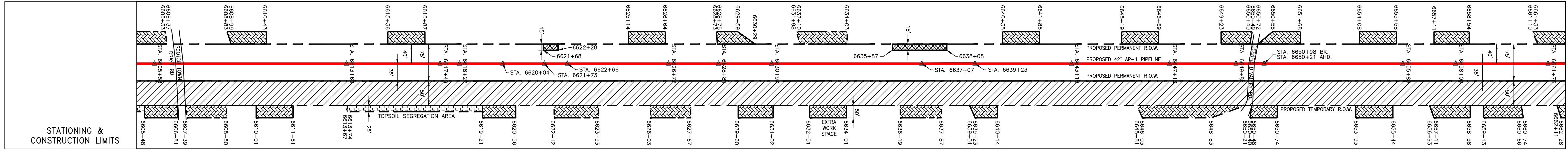
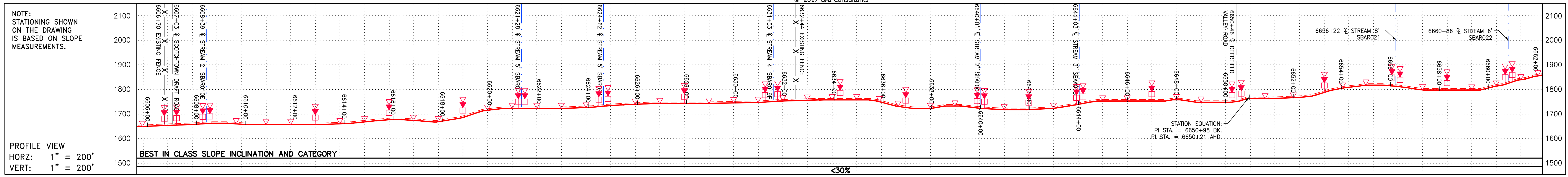
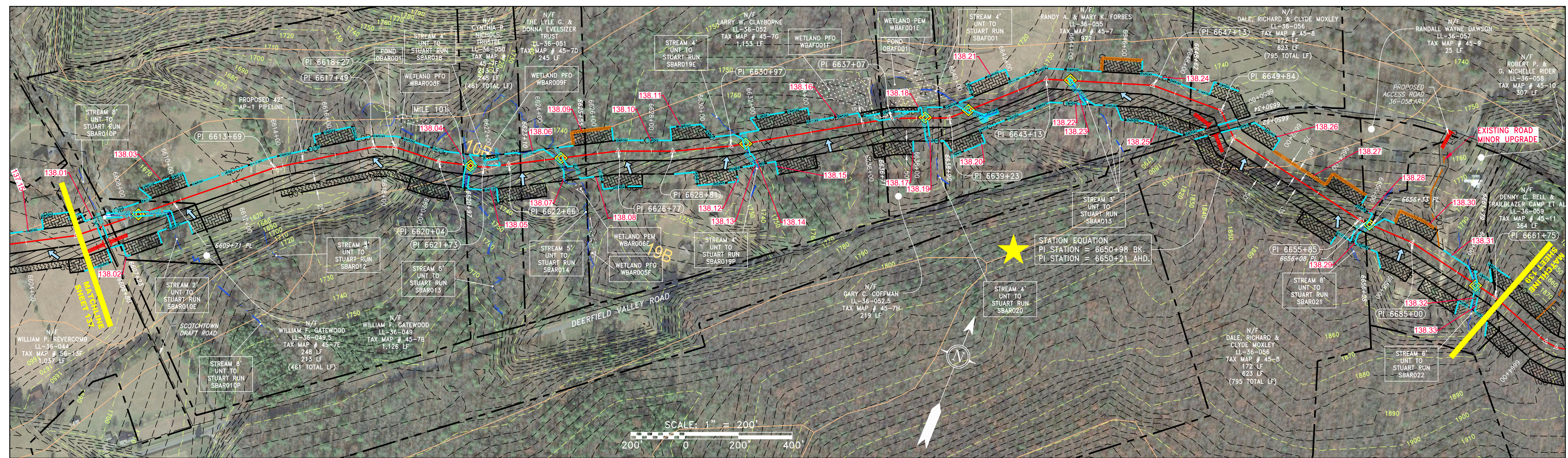
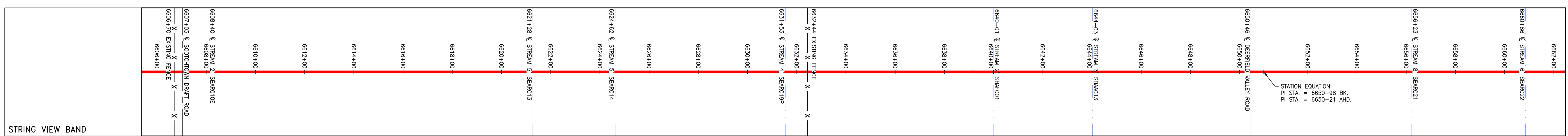


Table of Property Ownership with columns for owner name, address, and acreage. Owners include William F. Gatewood, Cynthia P. Nicholas, The Lyle G. & Donna Evelsizer Trust, Larry W. Clayborne, Gary C. Coffman, Dale, Richard & Clyde Moxley, Randall Wayne Dawson, Robert P. & G. Michelle Rider, and Denny C. Bell & Trailblazer Camp et al.



NOT TO SCALE PIPE SPECIFICATION



Legend and Notes section containing symbols for property lines, fences, streams, easements, and various engineering features. Includes notes on coordinate system, property lines, and construction requirements.

Revisions table with columns for No., Date, and Description. Includes a signature for Daniel L. Goldstein, Lic. No. 04740.

42" AP-1 PIPELINE
CONSTRUCTION ALIGNMENT STA 6606+00 TO 6662+00
BATH COUNTY, VIRGINIA
ATLANTIC COAST PIPELINE, LLC
C/O DOMINION TRANSMISSION, INC.
925 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330

SCALE: AS SHOWN
DATE: 4/26/17
DRAWN: CJF
CHECKED: DLH
APPROVED: NET

Logos for gai consultants and mbe monaloh basin engineers. Includes contact information for MBE: 300 BUSINESS CENTER DRIVE, PITTSBURGH, PA 15205, 412-788-2433.

Project and Drawing Information table with columns for Project No./Dash No., Task No., Sub Task No., Group ID, and Drawing No. Values include 140468, 005, 00, D, and E138.