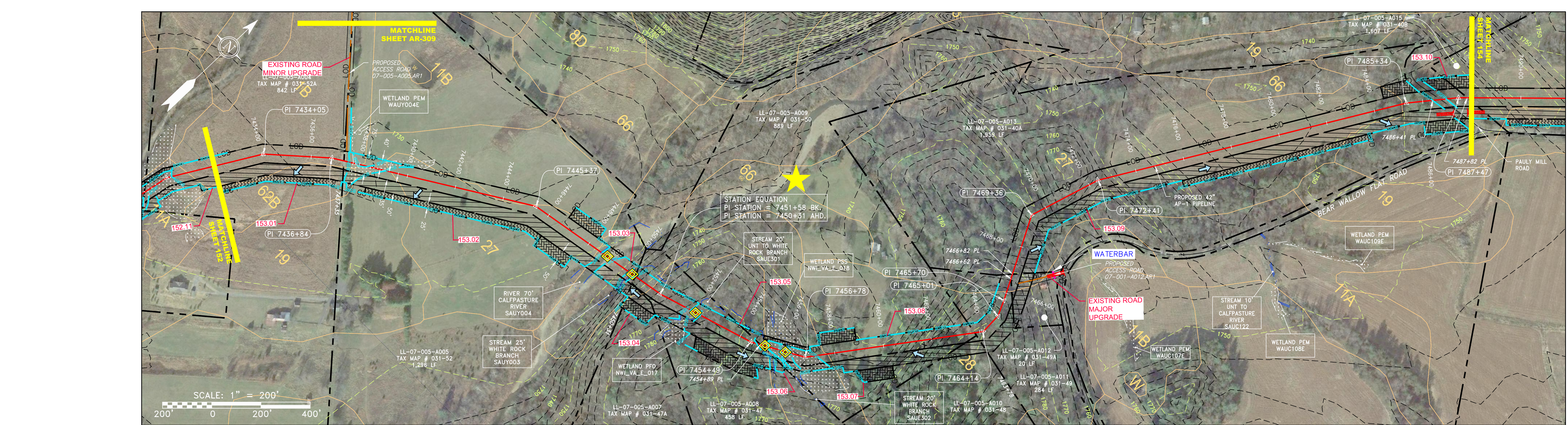
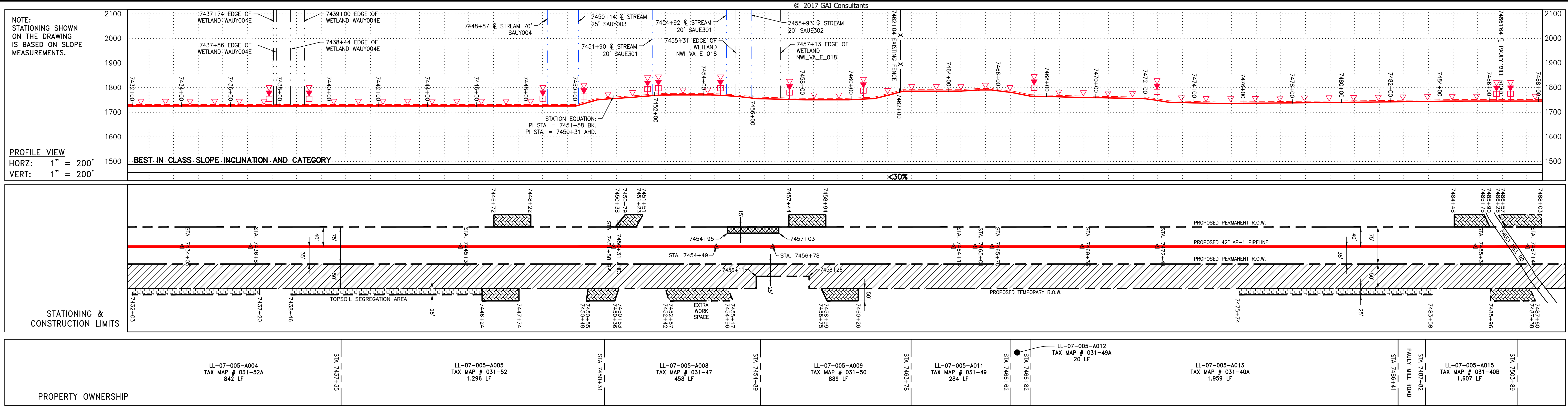
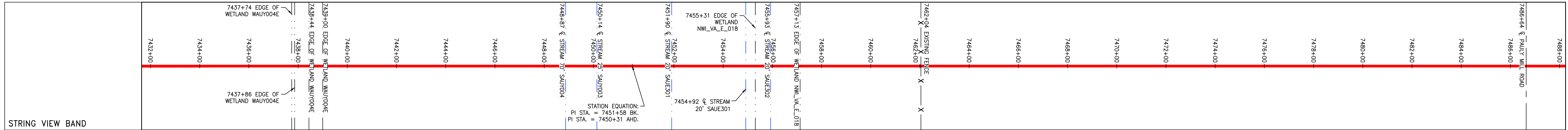


Z:\ENERGY\2014\CAD\MON FOREST\ROUTE\DWG\PREVIOUS FERC FILING DWGS\ALIGNMENT SHEETS\C140468-00-000-00-E-E-149-E153.DWG



NOT TO SCALE

PIPE SPECIFICATION



**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	[Circle]	UTILITY POLE
— OH —	OVERHEAD UTILITY LINES	—	EDGE OF GRAVEL				
—	ACCESS ROAD	—	PROPOSED PERMANENT EASEMENT				
—	PROPOSED GAS PIPELINE	—	PROPOSED GAS PIPELINE (NO GROUND SURVEY)				

**NOTES:**

- COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY - UTM WITH NAD83 DATUM, ZONE 17, US SURVEY FOOT, CENTRAL MERIDIAN 81° W.
- CONTOURS AND TOPOGRAPHIC FEATURES WERE DERIVED FROM LIDAR DATA AND GPS SUB-METER GROUND SURVEY PERFORMED BY GAI CONSULTANTS, INC FROM 11-03-2014 THRU 11-07-2014.
- IMAGERY TAKEN FROM GOOGLE EARTH.
- 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.
- EROSION CONTROL MATTING SHALL BE PLACED IN AREAS OF 30% SLOPE AND GREATER, WHICH ARE INDICATED ON THE BEST IN CLASS SLOPE BAND.
- 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 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.
- 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

**DANIEL R. GOLDSTEIN**  
 Lic. No. 047436

42" AP-1 PIPELINE  
 CONSTRUCTION ALIGNMENT STA 7432+00 TO 7488+00  
 AUGUSTA 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

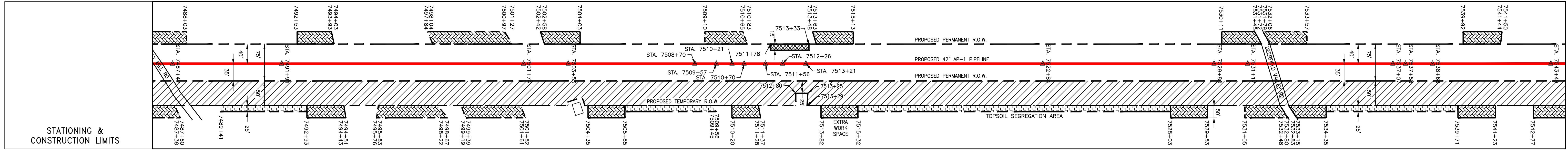
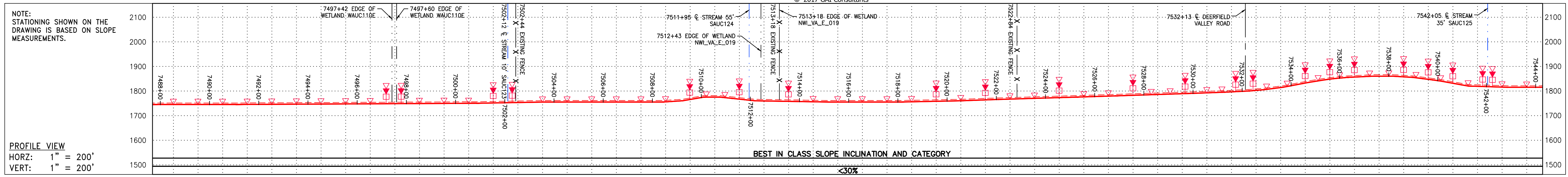
SOUTHPOINTE OFFICE  
 6000 TOWN CENTER BLVD.  
 SUITE 300 EAST  
 CANONSBURG, PA 15317  
 724-873-3545

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

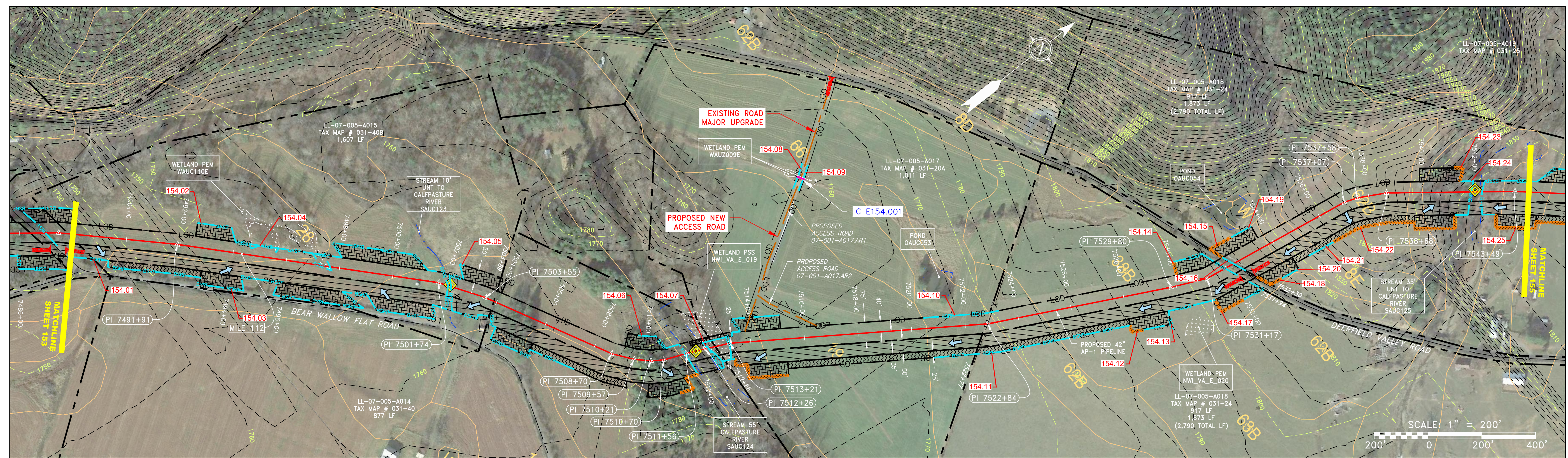
PROJECT NO./DASH NO.  
**140468**  
 TASK NO. SUB TASK NO.  
**005 00**  
 GROUP ID DRAWING NO.  
**D E153**  
**153 OF 344**

6/1/2017 4:26 PM

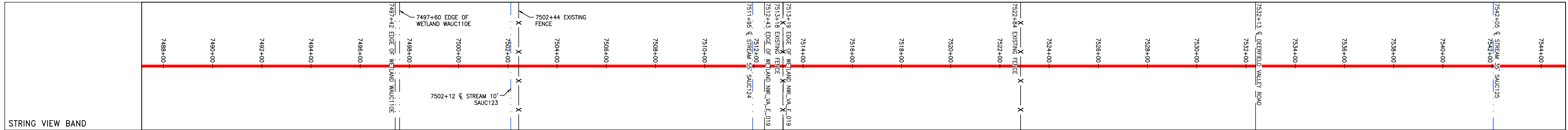
G:\CONSULTANTS\LOCAL\BUPROJ\ENERGY\2014\C140468.00 - DOMINION - SOUTHEAST PIPE\CAD\MON FOREST ROUTE\DWG\\_PREVIOUS FERC FILING DWGS\\_ALIGNMENT SHEETS\C140468-00-000-00-E-E154-E155C.DWG



PROPERTY OWNERSHIP	STATIONING & CONSTRUCTION LIMITS
LL-07-005-A015 TAX MAP # 031-40B 1,607 LF	7488+00 to 7504+00
LL-07-005-A014 TAX MAP # 031-40 877 LF	7504+00 to 7522+00
LL-07-005-A017 TAX MAP # 031-20A 1,011 LF	7522+00 to 7533+00
LL-07-005-A018 TAX MAP # 031-24 917 LF	7533+00 to 7544+00



NOT TO SCALE  
PIPE SPECIFICATION



LEGEND		NOTES:	
—	PROPERTY LINE	1.	COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY - UTM WITH NAD83 DATUM, ZONE 17, US SURVEY FOOT, CENTRAL MERIDIAN 81° W.
X-X	FENCE	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.
—	STREAM	3.	IMAGERY TAKEN FROM GOOGLE EARTH.
-C-	EXISTING GAS PIPELINE	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.
OH	OVERHEAD UTILITY LINES	5.	STREAM AND WETLAND DATA SHOWN ON THE DRAWINGS WAS PROVIDED BY ERM.
---	ACCESS ROAD	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.
---	PROPOSED GAS PIPELINE	7.	ALL STATIONING SHOWN IS SLOPE STATIONING.
---	PROPOSED GAS PIPELINE (NO GROUND SURVEY)	8.	SILT FENCE AND FILTER SOCK SHALL BE INSTALLED PARALLEL TO CONTOUR TO EXTENT PRACTICABLE IN ACCORDANCE WITH STANDARD DETAIL.
---	STORM SEWER	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.
---	UNDERGROUND ELECTRIC	10.	ACCESS ROADS HAVE BEEN GROUPED INTO FOUR CATEGORIES: 1) EXISTING ROADS NO IMPROVEMENTS, 2) EXISTING ROADS MINOR IMPROVEMENTS, 3) EXISTING ROADS MAJOR IMPROVEMENTS AND 4) NEW ROADS. APPROPRIATE EROSION AND SEDIMENTATION CONTROLS WILL BE PROVIDED FOR ROADS IN CATEGORIES 2, 3 AND 4. ROADS IN CATEGORIES 1 AND 2 HAVE ADEQUATE EXISTING DRAINAGE; DRAINAGE FEATURES WILL BE PROVIDED FOR ROADS IN CATEGORIES 3 AND 4.
---	WATER LINE	11.	"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."
---	SANITARY SEWER	12.	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.
---	EDGE OF GRAVEL		
---	PROPOSED PERMANENT EASEMENT		
---	PROPOSED PERMANENT R.O.W.		
---	EXTRA WORK SPACE		
---	TOPSOIL SEGREGATION AREA		
---	AREA OF NO DISTURBANCE		
---	WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)		
---	UTILITY POLE		

NO.	DATE	APPD.	DESCRIPTION



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

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

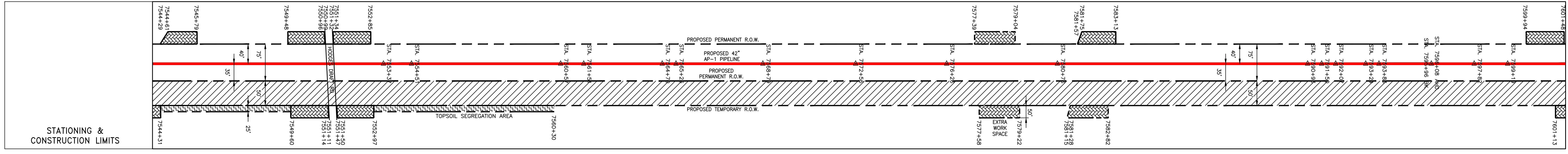
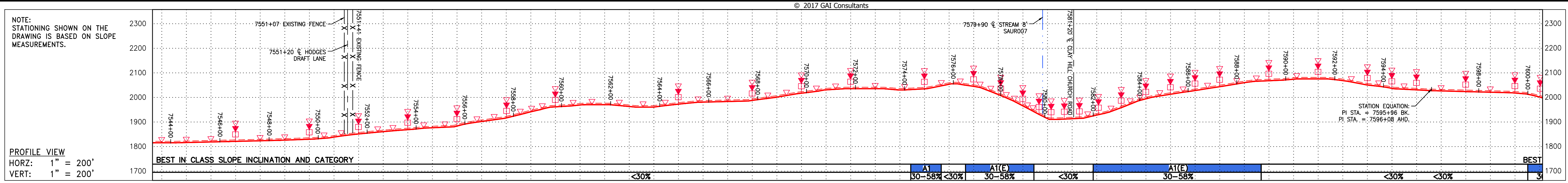
PROJECT NO./DASH NO.  
**140468**

TASK NO.	SUB TASK NO.
005	00

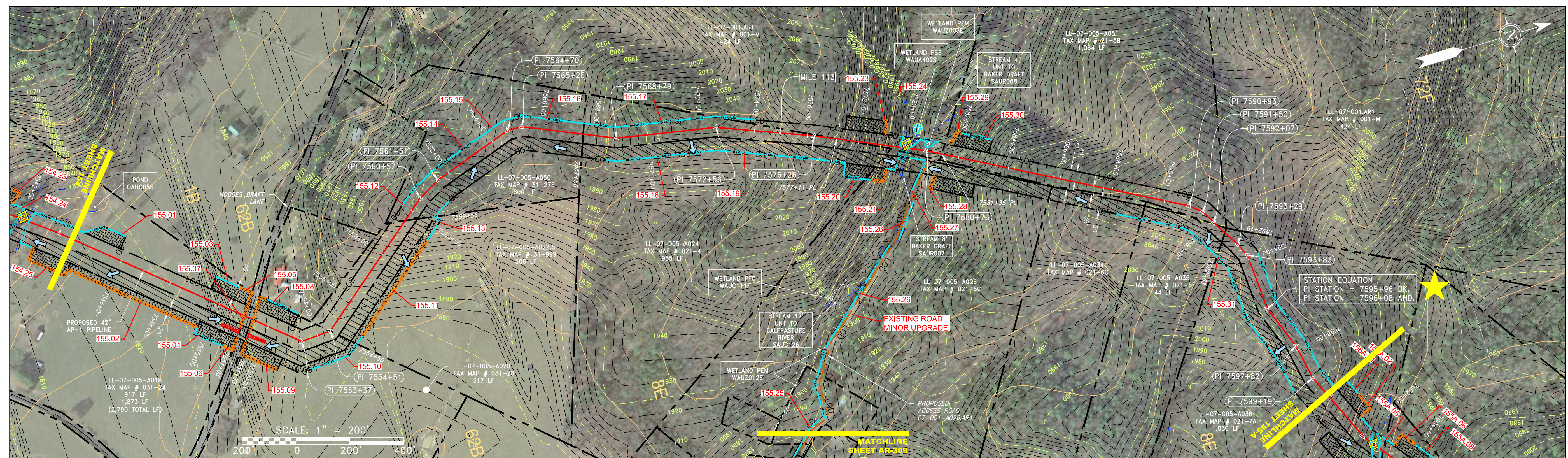
GROUP ID DRAWING NO.  
**D E154**

154 OF 344

GAICONCONSULTANTS\LOCAL\BUPROJ\ENERGY\2014\C140468.00 - DOMINION - SOUTHEAST PIPE\CAD\MON FOREST ROUTE\DWG\\_ALIGNMENT SHEETS\C140468-00-000-00-E-E154-E155C.DWG



PROPERTY OWNERSHIP table listing tax maps and acreages for various parcels along the alignment.



NOT TO SCALE  
PIPE SPECIFICATION



LEGEND and NOTES section containing symbols for property lines, fences, streams, wetlands, and various engineering features. Includes notes on coordinate systems and construction requirements.

REVISIONS table with columns for NO., DATE, CHG., and DESCRIPTION.

Project title block: 42\"/>

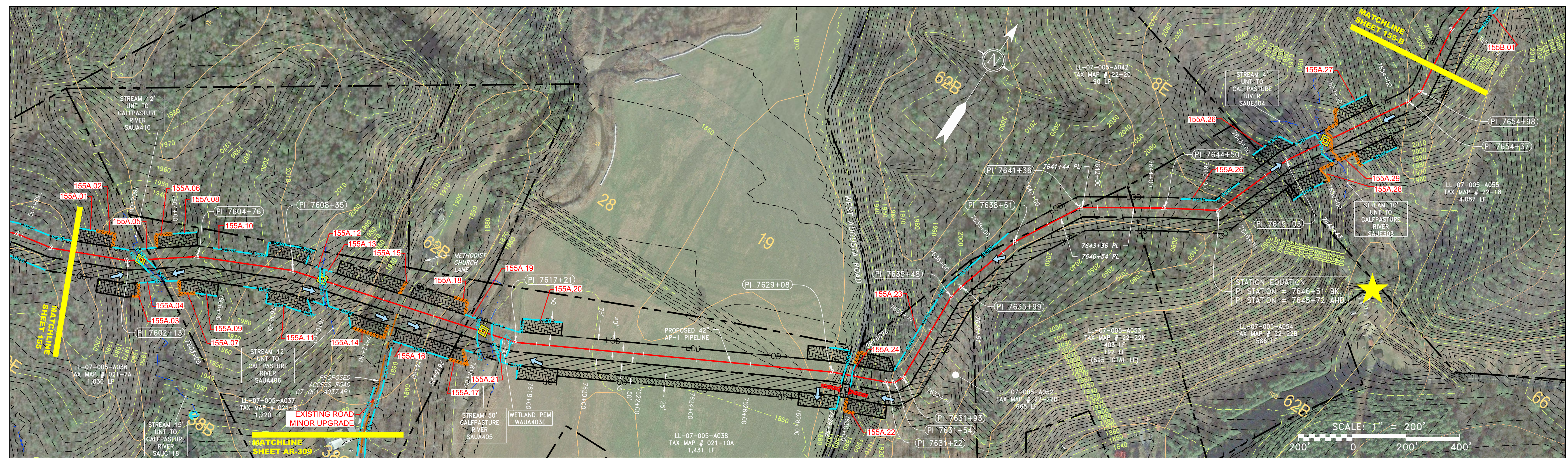
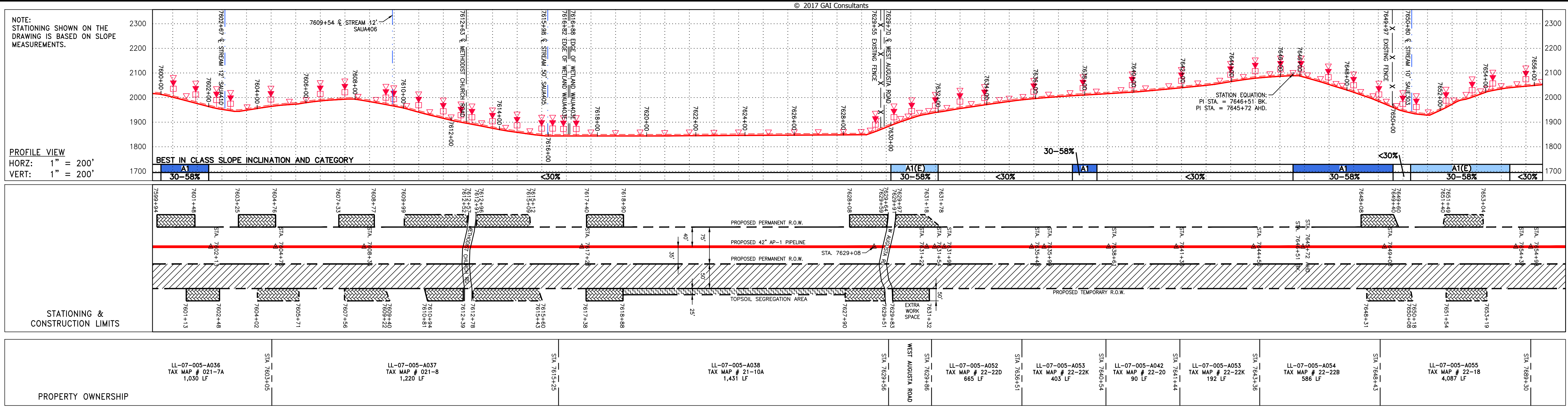
Scale and drawing information table: SCALE: AS SHOWN, DATE: 6/21/17, DRAWN: CJF, CHECKED: DLH, APPROVED: NET.

Logo for gai consultants.

Logo for mbe monaloh basin engineers.

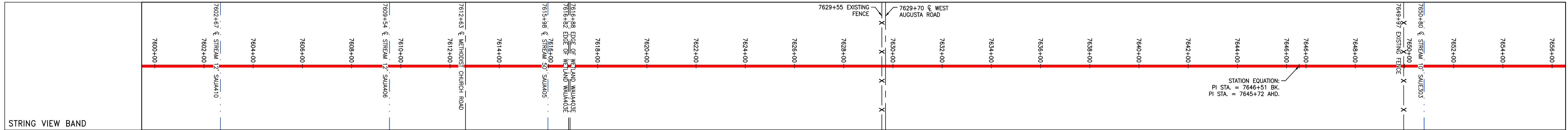
Project identification table: PROJECT NO./DASH NO. 140468, TASK NO. 005, SUB TASK NO. 00, GROUP ID D, DRAWING NO. E155, 155 OF 344.

G:\CONSULTANTS\LOCAL\BUPROJ\ENERGY\2014\C140468.00 - DOMINION - SOUTHEAST PIPE\CAD\MON FOREST REROUTE\DWG - ALIGNMENT SHEETS\C140468-00-000-00-E-E154-E155C.DWG



**PIPE SPECIFICATION**

NOT TO SCALE



**LEGEND**

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

**PERMANENT WATERBAR/SLOPE BREAKER**

**TEMPORARY WATERBAR/SLOPE BREAKER**

**TRENCH BREAKER/PLUG**

**STREAM CROSSING**

**USFS 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:**

- 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 WITH NO IMPROVEMENTS, 2) EXISTING ROADS WITH MINOR IMPROVEMENTS, 3) EXISTING ROADS WITH MAJOR IMPROVEMENTS AND 4) NEW ROADS. APPROPRIATE EROSION AND SEDIMENT CONTROLS WILL BE PROVIDED FOR ROADS IN CATEGORIES 1 AND 2.
- 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 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.

**REVISIONS**

NO.	DATE	DWN.	CHKD.	APPRO.	DESCRIPTION

**ERM**

**SCALE: AS SHOWN**

**DATE: 6/21/17**

**DRAWN: CJF**

**CHECKED: DLH**

**APPROVED: NET**

**PROJECT NO./DASH NO. 140468**

**TASK NO. 005 SUB TASK NO. 00**

**GROUP ID D DRAWING NO. E155-A**

**155-A OF 344**

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

**gai consultants**

**mbe monaloh basin engineers**

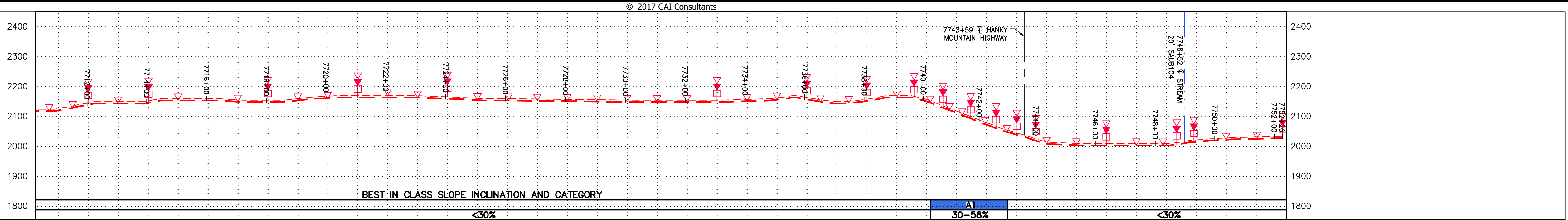
**9/21/2017 9:50 AM**



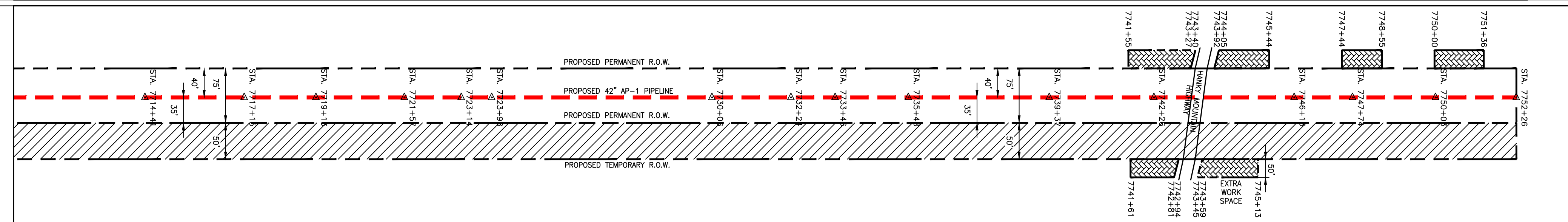
G:\CONSULTANTS\LOCAL\BUPROJ\ENERGY\2014\C140468.00 - DOMINION - SOUTHEAST PIPE\CAD\MON FOREST REROUTE\DWG\\_ALIGNMENT SHEETS\C140468-00-000-E-E154-E155C.DWG

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

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



STATIONING &  
CONSTRUCTION LIMITS



LL-07-005-A055.5  
TAX MAP # 22-13  
2,281 LF

S/A 7712+11

LL-07-001-A003  
TAX MAP # 022-2  
3,106 LF

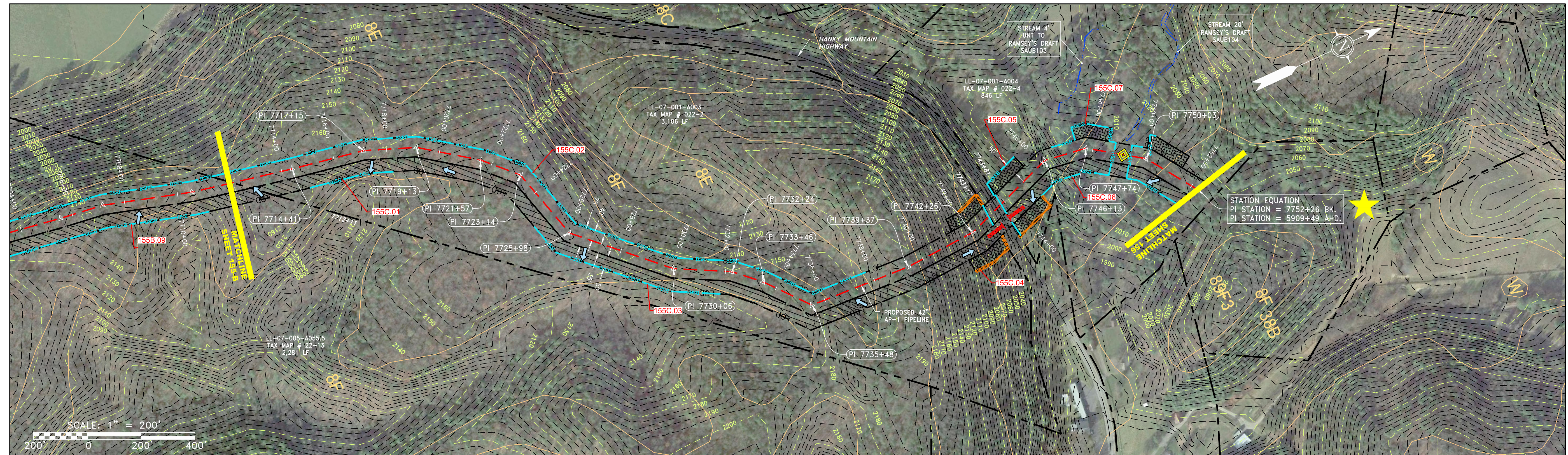
S/A 7743+17

HANKY MOUNTAIN HIGHWAY

S/A 7723+87

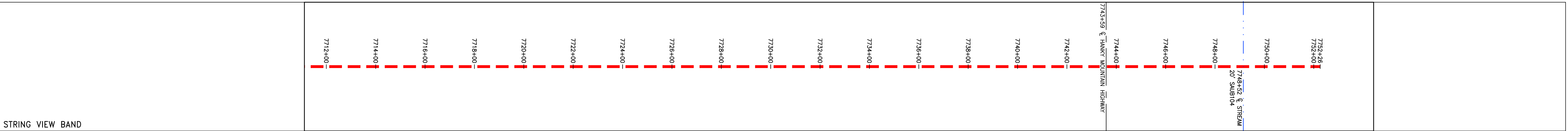
LL-07-001-A004  
TAX MAP # 022-4  
846 LF

PROPERTY OWNERSHIP



SCALE: 1" = 200'  
0 200' 400'

NOT TO SCALE  
PIPE SPECIFICATION



<p><b>LEGEND</b></p> <ul style="list-style-type: none"> <li>--- PROPERTY LINE</li> <li>X-X FENCE</li> <li>--- STREAM</li> <li>-C-C 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 PERMANENT R.O.W.</li> <li>--- PROPOSED TEMPORARY R.O.W.</li> <li>WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)</li> <li>UTILITY POLE</li> <li>EXTRA WORK SPACE</li> <li>TOPSOIL SEGREGATION AREA</li> <li>AREA OF NO DISTURBANCE</li> <li>NOTE: THE PE SEAL AND SIGNATURE APPLIES ONLY TO THE E&amp;S CONTROL DESIGN COMPLETED BY ERM (SEE NOTE 12).</li> </ul>	<ul style="list-style-type: none"> <li>▲ PERMANENT WATERBAR/SLOPE BREAKER</li> <li>▲ TEMPORARY WATERBAR/SLOPE BREAKER</li> <li>▲ TRENCH BREAKER/PLUG</li> <li>◆ STREAM CROSSING</li> <li>◆ USFWS STREAM CROSSING WITH ENHANCED CONTROLS</li> <li>◆ SEEP</li> <li>◆ SLOPE DIRECTION</li> <li>◆ CONSTRUCTION ENTRANCE WITH DITCH</li> <li>◆ CULVERT AS NEEDED</li> <li>◆ CULVERT WATERBAR</li> <li>LOD</li> <li>3SRP</li> <li>111.03</li> <li>C 111.001</li> <li>ORANGE SAFETY FENCE</li> <li>ROADSIDE DITCH</li> <li>SOIL TYPE</li> <li>A1 (E) 30-58%</li> <li>LIMIT OF DISTURBANCE</li> <li>BELTED SILT RETENTION FENCE (BSRF)</li> <li>COMPOST FILTER SOCK</li> <li>SEDIMENT IDENTIFICATION</li> <li>CULVERT IDENTIFICATION</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>1. COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY - UTM WITH NAD83 DATUM, ZONE 17, US SURVEY FOOT, CENTRAL MERIDIAN 81° W.</li> <li>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.</li> <li>3. IMAGERY TAKEN FROM GOOGLE EARTH.</li> <li>4. 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>5. STREAM AND WETLAND DATA SHOWN ON THE DRAWINGS WAS PROVIDED BY ERM.</li> <li>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.</li> <li>7. ALL STATIONING SHOWN IS SLOPE STATIONING.</li> <li>8. SLOPE INCLINATION SHALL BE INSTALLED PARALLEL TO CONTOUR TO EXTENT PRACTICABLE IN ACCORDANCE WITH STANDARD DETAIL.</li> <li>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.</li> <li>10. SILT FENCE AND FILTER SOCK SHALL BE INSTALLED PARALLEL TO CONTOUR TO EXTENT PRACTICABLE IN ACCORDANCE WITH STANDARD DETAIL.</li> <li>11. ACCESS ROADS HAVE BEEN GROUPED INTO FOUR CATEGORIES: 1) EXISTING ROADS NO IMPROVEMENTS, 2) EXISTING ROADS MINOR IMPROVEMENTS, 3) EXISTING ROADS MAJOR IMPROVEMENTS AND 4) NEW ROADS. APPROPRIATE EROSION AND SEDIMENT CONTROLS WILL BE PROVIDED FOR ROADS IN CATEGORIES 2, 3 AND 4. ROADS IN CATEGORIES 1 AND 2 HAVE ADEQUATE EXISTING DRAINAGE; DRAINAGE FEATURES WILL BE PROVIDED FOR ROADS IN CATEGORIES 3 AND 4.</li> <li>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.</li> <li>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.</li> </ol>
---	---	---

NO.	DATE	BY	CHKD.	APPD.	DESCRIPTION



42" AP-1 PIPELINE  
CONSTRUCTION ALIGNMENT STA 7712+00 TO 7752+26  
AUGUSTA 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



SOUTHPOINT 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 E155-C**

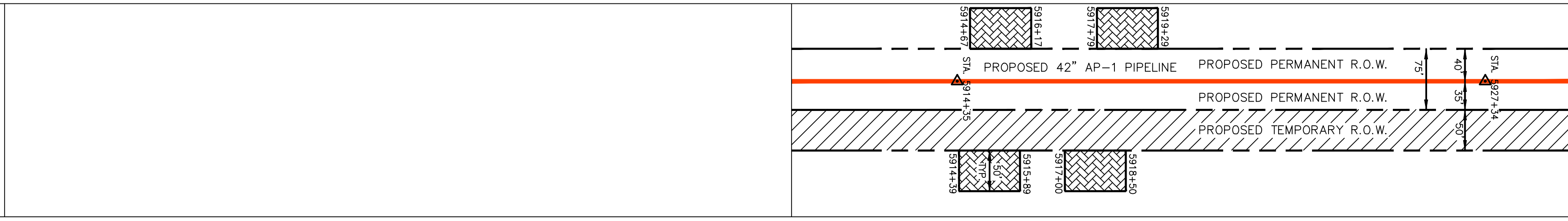
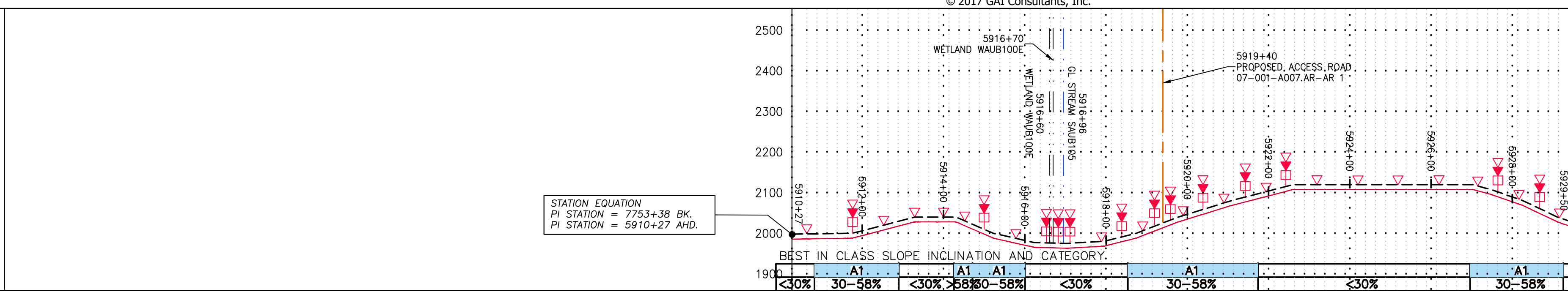
**155-C OF 344**

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

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

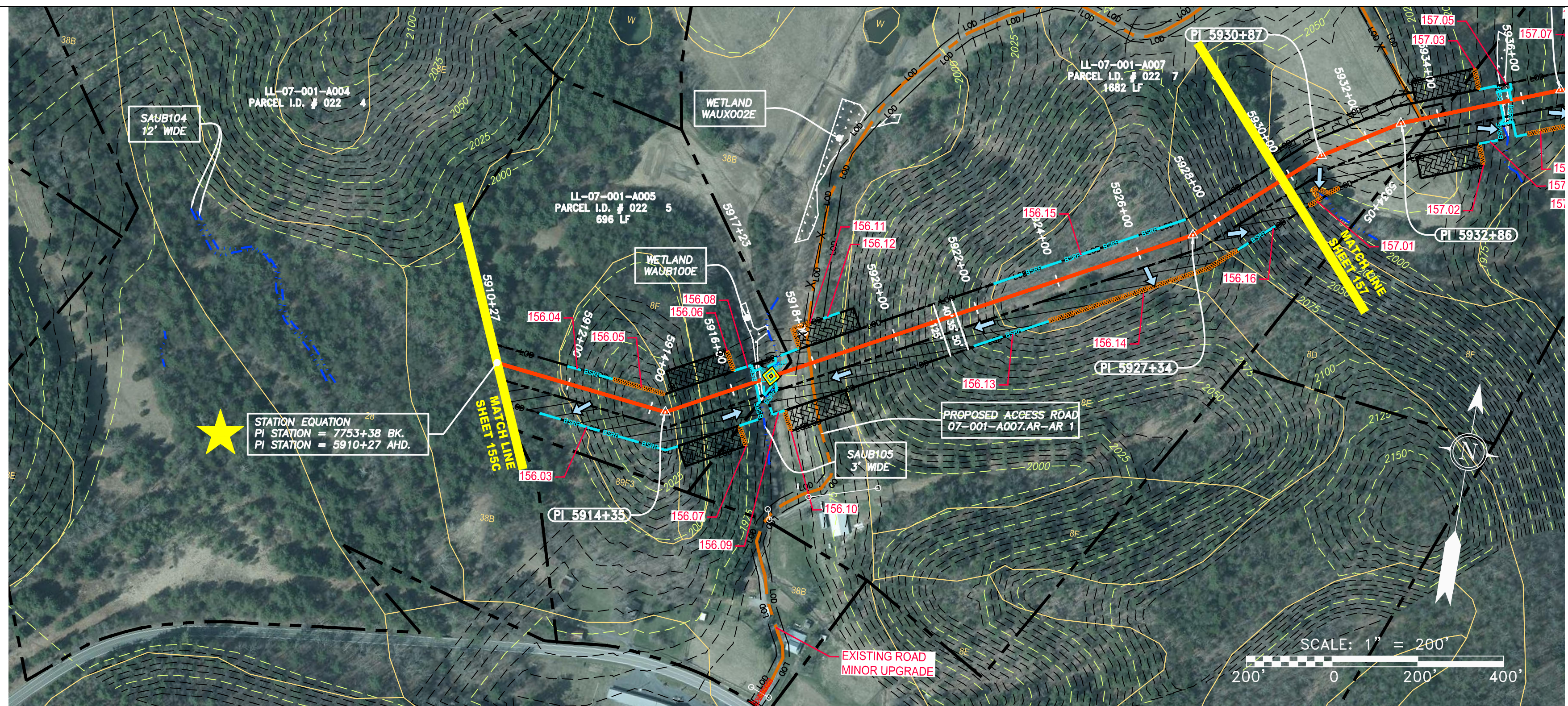
STATIONING &  
CONSTRUCTION LIMITS

PROPERTY OWNERSHIP



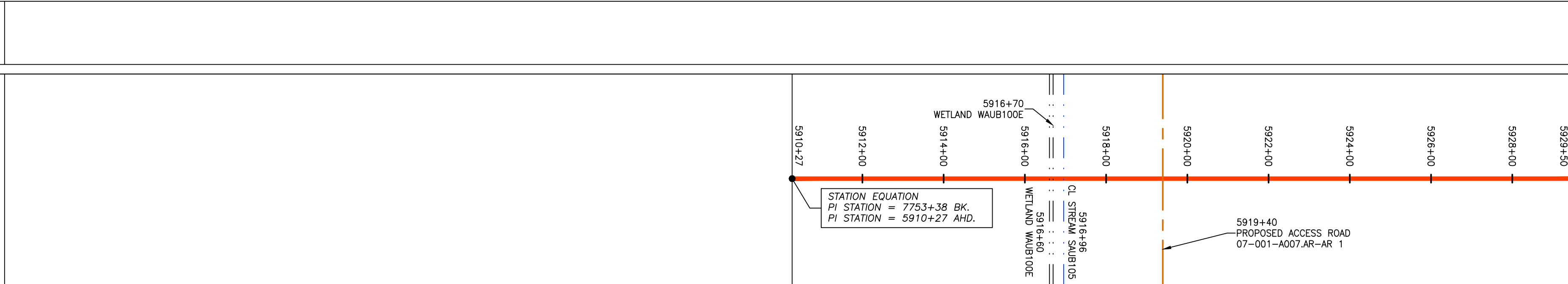
LL-07-001-A005  
PARCEL I.D. # 022 5  
696 LF

LL-07-001-A007  
PARCEL I.D. # 022 7  
1682 LF



PIPE SPECIFICATION

STRING VIEW BAND



**LEGEND**

— X — X —	PROPERTY LINE	— E —	STORM SEWER	▨	EXTRA WORK SPACE	▨	TOPSOIL SEGREGATION AREA
— X — X —	FENCE	— W —	UNDERGROUND ELECTRIC	▨	AREA OF NO DISTURBANCE	▨	PROPOSED TEMPORARY R.O.W.
— G — G —	EXISTING GAS PIPELINE	— S —	WATER LINE	▨	WETLAND	▨	UTILITY POLE
— OH —	OVERHEAD UTILITY LINES	—	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)	▨		▨	

▨	PERMANENT WATERBAR/SLOPE BREAKER	▨	LOD	▨	LIMIT OF DISTURBANCE
▨	TEMPORARY WATERBAR/SLOPE BREAKER	▨	BSRF	▨	BELTED SILT RETENTION FENCE (BSRF)
▨	TRENCH BREAKER/PLUG	▨	111.03	▨	COMPOST FILTER SOCK
▨	STREAM CROSSING	▨	C 111.001	▨	SEDIMENT BARRIER IDENTIFICATION
▨	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 BIG 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.
- 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.
- ALL ACCESS ROADS 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 BICMP 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.

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

STATION EQUATION  
PI STATION = 7753+38 BK.  
PI STATION = 5910+27 AHD.

STATION EQUATION  
PI STATION = 7753+38 BK.  
PI STATION = 5910+27 AHD.

NO.	DATE	BY	CHKD.	APPVD.	DESCRIPTION

42" AP-1 PIPELINE  
CONSTRUCTION ALIGNMENT STA 5910+27 TO 5929+50  
AUGUSTA COUNTY, VIRGINIA

Daniel R. Goldstein  
DANIEL R. GOLDSTEIN  
Lic. No. 047436  
PROFESSIONAL ENGINEER

ERM

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

SCALE: AS SHOWN  
DATE: 6/20/17  
DRAWN: GPT  
CHECKED: DLH  
APPROVED: NET

gai consultants

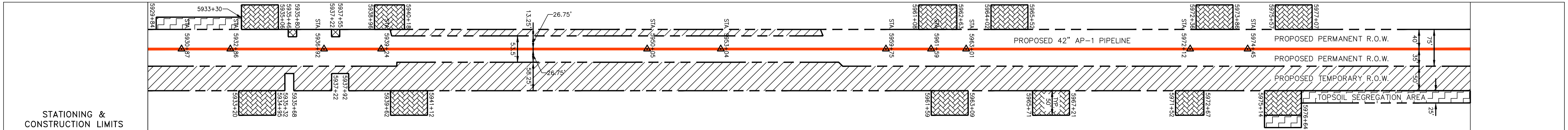
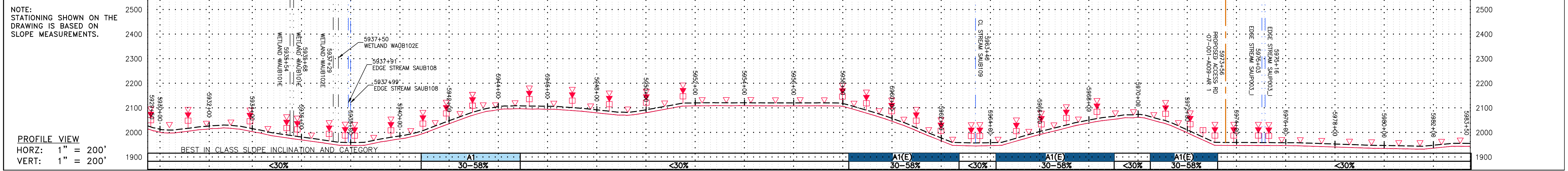
SOUTHPOINTE OFFICE  
6000 TOWN CENTER BLDG.  
CANONSBURG, PA 15317  
724-873-3545

PROJECT NO./DASH NO.  
140468

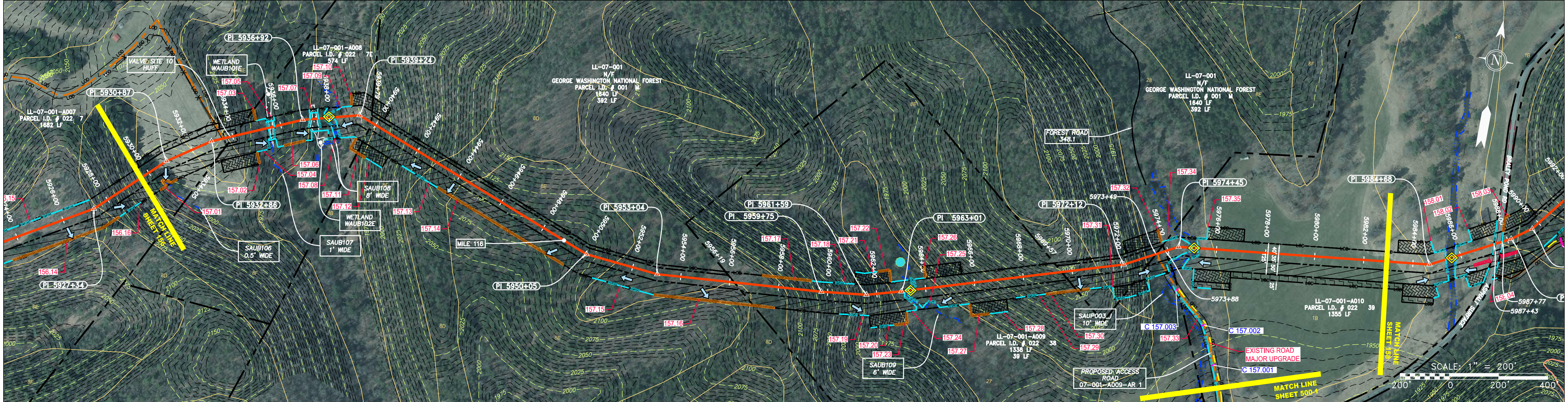
TASK NO. SUB TASK NO.  
005 00

GROUP ID DRAWING NO.  
D E156

156 OF 344



PROPERTY OWNERSHIP
LL-07-001-A007 PARCEL I.D. # 022 7 1682 LF
LL-07-001-A008 PARCEL I.D. # 022 7E 574 LF
LL-07-001 N/F GEORGE WASHINGTON NATIONAL FOREST PARCEL I.D. # 001 M 1640 LF
LL-07-001-A009 PARCEL I.D. # 022 38 1338 LF
LL-07-001 N/F GEORGE WASHINGTON NATIONAL FOREST PARCEL I.D. # 001 M 392 LF
LL-07-001-A009 PARCEL I.D. # 022 38 39 LF
LL-07-001-A010 PARCEL I.D. # 022 39 1355 LF



PIPE SPECIFICATION																											
5930+00	5932+00	5934+00	5936+00	5938+00	5940+00	5942+00	5944+00	5946+00	5948+00	5950+00	5952+00	5954+00	5956+00	5958+00	5960+00	5962+00	5964+00	5966+00	5968+00	5970+00	5972+00	5974+00	5976+00	5978+00	5980+00	5982+00	5983+00
<p>5937+99 EDGE STREAM SAUB108</p> <p>5937+91 EDGE STREAM SAUB108</p> <p>5937+50 WETLAND WAUB102E</p> <p>5935+88 WETLAND WAUB101E</p> <p>5935+54 WETLAND WAUB101E</p> <p>5935+30 WETLAND WAUB101E</p> <p>5933+46 WETLAND WAUB101E</p> <p>5933+30 WETLAND WAUB101E</p> <p>5933+22 WETLAND WAUB101E</p> <p>5933+18 WETLAND WAUB101E</p> <p>5933+14 WETLAND WAUB101E</p> <p>5933+10 WETLAND WAUB101E</p> <p>5933+06 WETLAND WAUB101E</p> <p>5933+02 WETLAND WAUB101E</p> <p>5932+58 WETLAND WAUB101E</p> <p>5932+54 WETLAND WAUB101E</p> <p>5932+50 WETLAND WAUB101E</p> <p>5932+46 WETLAND WAUB101E</p> <p>5932+42 WETLAND WAUB101E</p> <p>5932+38 WETLAND WAUB101E</p> <p>5932+34 WETLAND WAUB101E</p> <p>5932+30 WETLAND WAUB101E</p> <p>5932+26 WETLAND WAUB101E</p> <p>5932+22 WETLAND WAUB101E</p> <p>5932+18 WETLAND WAUB101E</p> <p>5932+14 WETLAND WAUB101E</p> <p>5932+10 WETLAND WAUB101E</p> <p>5932+06 WETLAND WAUB101E</p> <p>5932+02 WETLAND WAUB101E</p> <p>5931+58 WETLAND WAUB101E</p> <p>5931+54 WETLAND WAUB101E</p> <p>5931+50 WETLAND WAUB101E</p> <p>5931+46 WETLAND WAUB101E</p> <p>5931+42 WETLAND WAUB101E</p> <p>5931+38 WETLAND WAUB101E</p> <p>5931+34 WETLAND WAUB101E</p> <p>5931+30 WETLAND WAUB101E</p> <p>5931+26 WETLAND WAUB101E</p> <p>5931+22 WETLAND WAUB101E</p> <p>5931+18 WETLAND WAUB101E</p> <p>5931+14 WETLAND WAUB101E</p> <p>5931+10 WETLAND WAUB101E</p> <p>5931+06 WETLAND WAUB101E</p> <p>5931+02 WETLAND WAUB101E</p> <p>5930+58 WETLAND WAUB101E</p> <p>5930+54 WETLAND WAUB101E</p> <p>5930+50 WETLAND WAUB101E</p> <p>5930+46 WETLAND WAUB101E</p> <p>5930+42 WETLAND WAUB101E</p> <p>5930+38 WETLAND WAUB101E</p> <p>5930+34 WETLAND WAUB101E</p> <p>5930+30 WETLAND WAUB101E</p> <p>5930+26 WETLAND WAUB101E</p> <p>5930+22 WETLAND WAUB101E</p> <p>5930+18 WETLAND WAUB101E</p> <p>5930+14 WETLAND WAUB101E</p> <p>5930+10 WETLAND WAUB101E</p> <p>5930+06 WETLAND WAUB101E</p> <p>5930+02 WETLAND WAUB101E</p>																											

**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	<b>NOTE: THE PE SEAL AND SIGNATURE APPLIES ONLY TO THE E&amp;S CONTROL DESIGN COMPLETED BY ERM (SEE NOTE 12).</b>	
OVERHEAD UTILITY LINES	EDGE OF GRAVEL	PERMANENT WATERBAR/SLOPE BREAKER	LIMIT OF DISTURBANCE
ACCESS ROAD	PROPOSED PERMANENT EASEMENT	TEMPORARY WATERBAR/SLOPE BREAKER	BELTED SILT RETENTION FENCE (BSRF)
PROPOSED GAS PIPELINE	PROPOSED GAS PIPELINE (NO GROUND SURVEY)	STREAM CROSSING	USFWS CROSS SYMBOL WITH ENHANCED CONTROLS
		SLOPE DIRECTION	CONSTRUCTION ENTRANCE WITH DITCH
		CULVERT WATERBAR	CULVERT AS NEEDED

**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 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.
- 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.

**REVISIONS**

NO.	DATE	BY	CHKD.	APPD.	DESCRIPTION

**Professional Engineer Seal:**  
Daniel R. Goldstein  
Lic. No. 047436  
ERM

**PROJECT NO./DASH NO.**  
140468

**TASK NO. SUB TASK NO.**  
005 00

**GROUP ID DRAWING NO.**  
D E157

**157 OF 344**

**42" AP-1 PIPELINE  
CONSTRUCTION ALIGNMENT 5929+50 TO 5983+50**  
AUGUSTA COUNTY, VIRGINIA

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

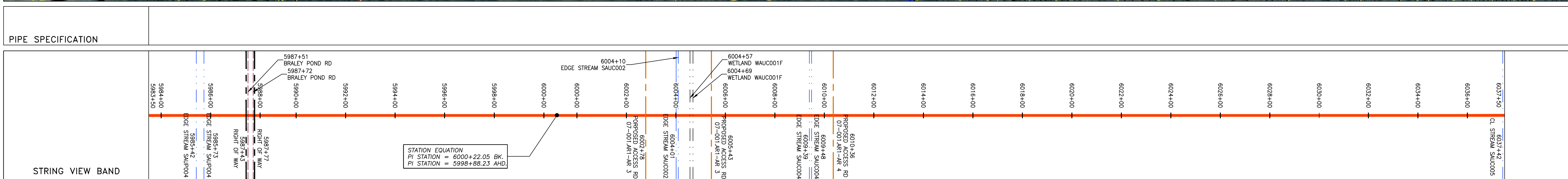
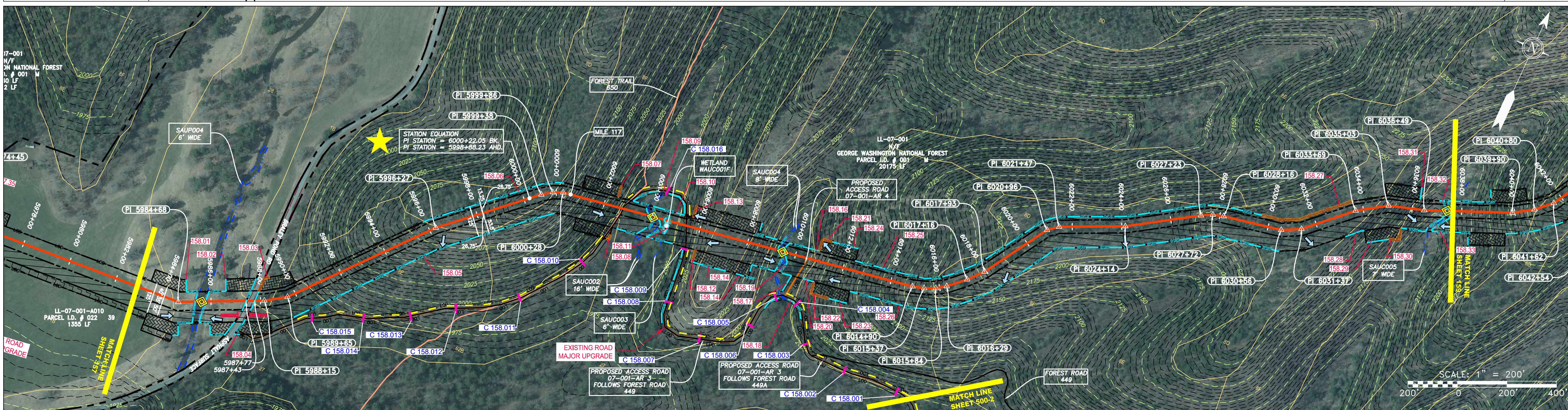
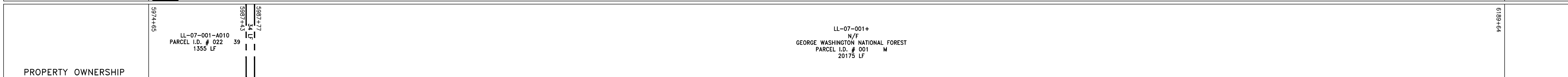
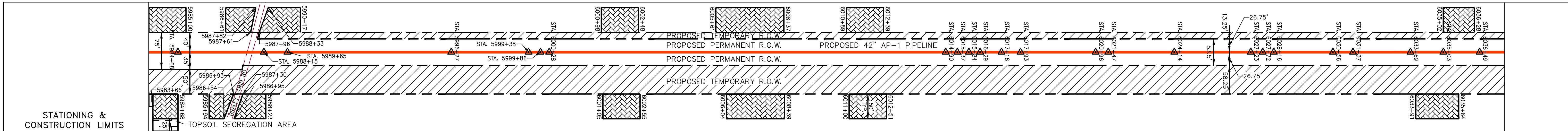
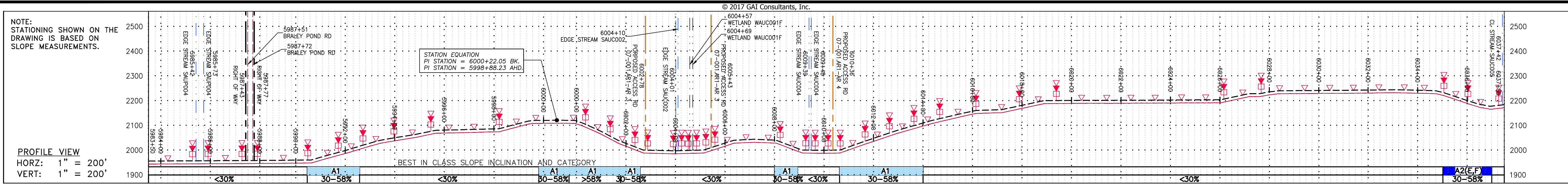
**SCALE:** AS SHOWN  
**DATE:** 6/20/17  
**DRAWN:** GPT  
**CHECKED:** DLH  
**APPROVED:** NET

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

GAI CAD FILE NO. R:\050-5159 - GAI - THRASHER - SERP - MAPPING\SURVEY\DRAWING\SEC 3\RR SHEETS 156-158 (11-15).DWG

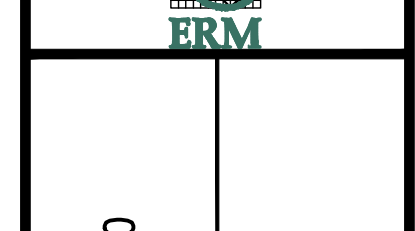


GAI CAD FILE NO. R:\050-5159 - GAI, INC. - SERP - THRASHER - DRAWING SEC 3\RR SHEETS 156-158 (11-15).DWG



<b>LEGEND</b> --- PROPERTY LINE --- FENCE --- STREAM --- EXISTING GAS PIPELINE --- OH --- ACCESS ROAD --- PROPOSED GAS PIPELINE		--- STORM SEWER --- UNDERGROUND ELECTRIC --- WATER LINE --- SAN --- SANITARY SEWER --- EDGE OF GRAVEL --- PROPOSED PERMANENT EASEMENT --- PROPOSED GAS PIPELINE (NO GROUND SURVEY)		[Hatched] EXTRA WORK SPACE [Dotted] AREA OF NO DISTURBANCE [Green] WETLAND [Hatched] TOPSOIL SEGREGATION AREA [Hatched] PROPOSED TEMPORARY R.O.W. [Circle] UTILITY POLE		[Triangle] PERMANENT WATERBAR/SLOPE BREAKER [Triangle] TEMPORARY WATERBAR/SLOPE BREAKER [Triangle] TRENCH BREAKER/PLUG [Circle] STREAM CROSSING [Circle] USFS STREAM CROSSING WITH ENHANCED CONTROLS [Circle] SEEP [Circle] SLOPE DIRECTION [Circle] CONSTRUCTION ENTRANCE WITH DITCH [Circle] CULVERT AS NEEDED [Circle] CULVERT WATERBAR		--- LOD --- BSRF --- 111.03 --- C 111.001 --- [Symbol] SOIL TYPE --- [Symbol] TYPICAL BIG SLOPE CATEGORY SLOPE INCLINATION		<b>NOTES:</b> 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. 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. 3. STREAM AND WETLAND DATA SHOWN ON THE DRAWINGS WAS PROVIDED BY ERM. 4. EROSION AND SEDIMENTATION CONTROL ELEMENTS MAY BE SHOWN OUTSIDE OF THE WORK AREAS FOR CLARITY ONLY. ACTUAL INSTALLATION SHALL BE WITHIN THE WORK AREAS. 5. ALL STATIONING SHOWN IS SLOPE STATIONING. 6. SILT FENCE AND FILTER SOCK SHALL BE INSTALLED PARALLEL TO CONTOUR TO EXTENT PRACTICABLE IN ACCORDANCE WITH STANDARD DETAIL. 7. BEST IN CLASS (BIC) SLOPE CATEGORY INFORMATION CAN BE FOUND IN THE APPENDIX OF THE STORMWATER POLLUTION PREVENTION PLAN. 8. EROSION CONTROL MATTING SHALL BE PLACED IN AREAS OF 30% SLOPE AND GREATER, WHICH ARE INDICATED ON THE BEST IN CLASS STEEP SLOPES BAND. 9. 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. 10. 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. 11. 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.5.5. 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



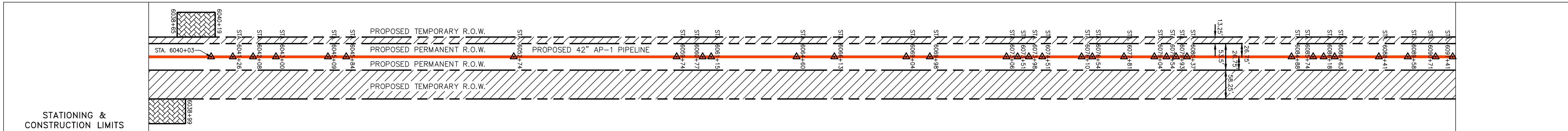
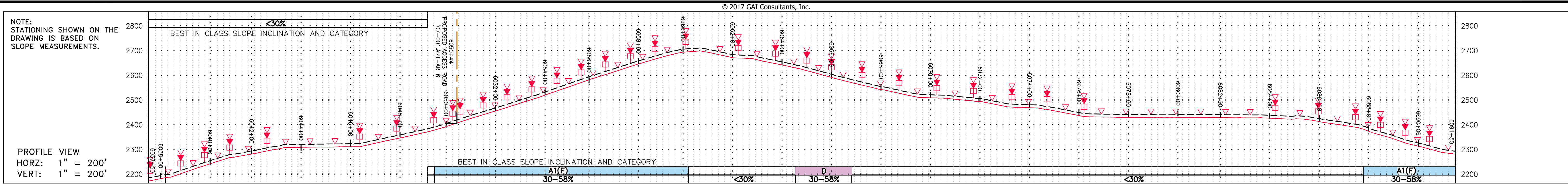
42" AP-1 PIPELINE  
 CONSTRUCTION ALIGNMENT STA 5983+50 TO 6037+50  
 ATLANTIC COAST PIPELINE, LLC  
 C/O DOMINION TRANSMISSION, INC.  
 925 WHITE OAKS BLVD., BRIDGEPORT, WV 26330

SCALE: AS SHOWN  
 DATE: 6/20/17  
 DRAWN: GPT  
 CHECKED: DLH  
 APPROVED: NET



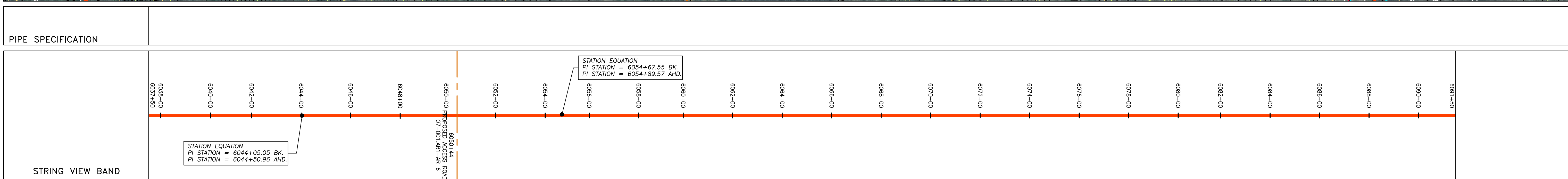
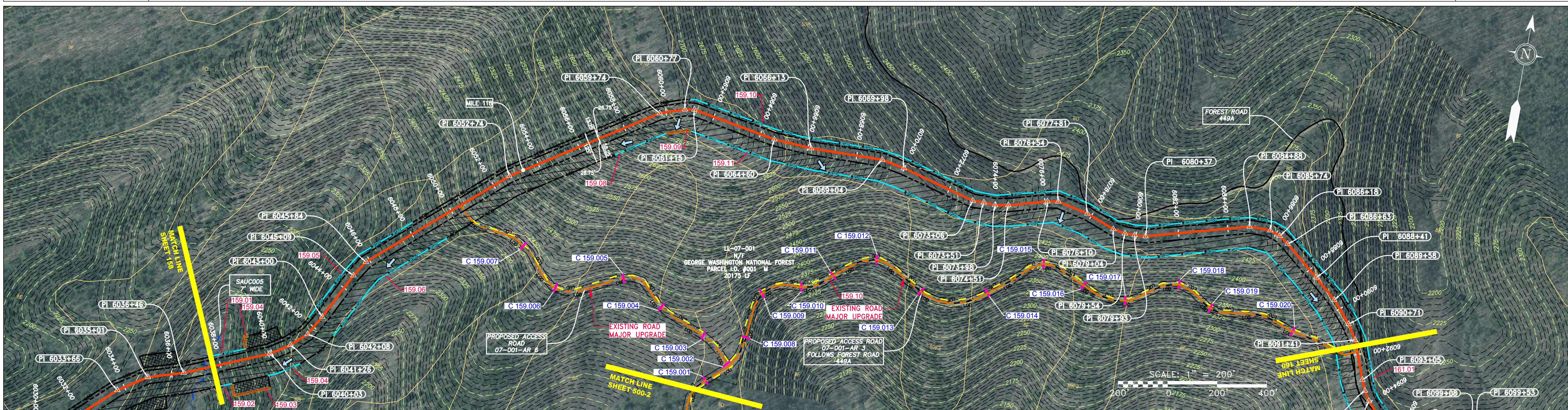
PROJECT NO./DASH NO.	140468
TASK NO. SUB TASK NO.	005 00
GROUP ID DRAWING NO.	D E158
158 OF 344	

GAI CAD FILE NO. R:\050-5159 - GAI - THRASHER - SERP - MAPPING SURVEY DRAWING SEC 3\RR SHEETS 159-163 (16-20).DWG



PROPERTY OWNERSHIP

LL-07-001  
N/F  
GEORGE WASHINGTON NATIONAL FOREST  
PARCEL I.D. #001 M  
20175 LF



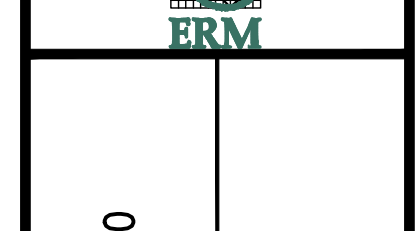
**LEGEND**

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	<b>NOTE: THE PE SEAL AND SIGNATURE APPLIES ONLY TO THE E&amp;S CONTROL DESIGN COMPLETED BY ERM (SEE NOTE 12).</b>	
OVERHEAD UTILITY LINES	EDGE OF GRAVEL	PERMANENT WATERBAR/SLOPE BREAKER	TEMPORARY WATERBAR/SLOPE BREAKER
ACCESS ROAD	PROPOSED PERMANENT EASEMENT	STREAM CROSSING	SLOPE DIRECTION
PROPOSED GAS PIPELINE	PROPOSED GAS PIPELINE (NO GROUND SURVEY)	SLOPE CROSSING WITH ENHANCED CONTROLS	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.
- 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 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.
- THE CONSTRUCTION RIGHT-OF-WAY (ROW) WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS IN ACCORDANCE WITH SECTION V.4.S FEDERAL ENERGY REGULATORY COMMISSION (FERC) UPLAND EROSION CONTROL, REVEGETATION, AND MAINTENANCE PLAN, SECTION V.4.S. 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	APPD.	CHKD.	DESCRIPTION



42" AP-1 PIPELINE  
CONSTRUCTION ALIGNMENT STA: 6037+50 TO 6091+50

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

SCALE: AS SHOWN  
DATE: 6/20/17  
DRAWN: GPT  
CHECKED: DLH  
APPROVED: NET



PROJECT NO./DASH NO.	140468
TASK NO. SUB TASK NO.	005 00
GROUP ID DRAWING NO.	D E159
159 OF 344	