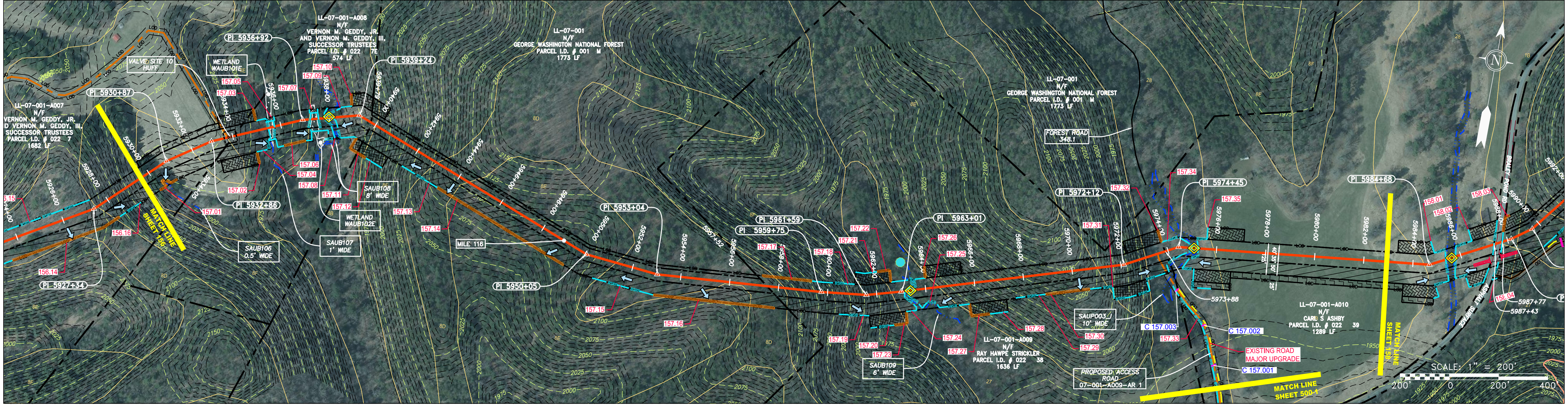


PROPERTY OWNERSHIP	STATIONING & CONSTRUCTION LIMITS
LL-07-001-A007 N/F VERNON M. GEDDY, JR. AND VERNON M. GEDDY, III, SUCCESSOR TRUSTEES PARCEL I.D. # 022 7 1682 LF	5933+30
LL-07-001-A008 N/F VERNON M. GEDDY, JR. AND VERNON M. GEDDY, III, SUCCESSOR TRUSTEES PARCEL I.D. # 022 7E 574 LF	5937+92
LL-07-001 N/F GEORGE WASHINGTON NATIONAL FOREST PARCEL I.D. # 001 M 1773 LF	5940+00
LL-07-001-A009 N/F RAY HAMPE STRICKLER PARCEL I.D. # 022 38 1636 LF	5972+12
LL-07-001-A010 N/F CARL S ASHBY PARCEL I.D. # 022 39 1289 LF	5974+34



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
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5983+00

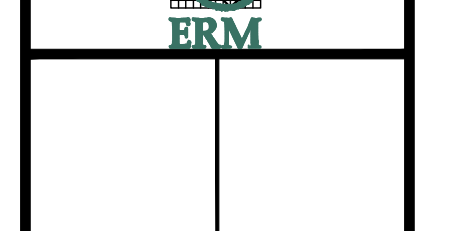
LEGEND

PROPERTY LINE	STORM SEWER	EXTRA WORK SPACE	LIMIT OF DISTURBANCE
FENCE	UNDERGROUND ELECTRIC	TOPSOIL SEGREGATION AREA	BELTED SILT RETENTION FENCE (BSRF)
STREAM	WATER LINE	AREA OF NO DISTURBANCE	COMPOSITE FILTER SOCK
EXISTING GAS PIPELINE	SANITARY SEWER	PROPOSED TEMPORARY R.O.W.	CULVERT IDENTIFICATION
OVERHEAD UTILITY LINES	EDGE OF GRAVEL	WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)	ORANGE SAFETY FENCE
ACCESS ROAD	PROPOSED PERMANENT EASEMENT	UTILITY POLE	ROADSIDE DITCH
PROPOSED GAS PIPELINE	PROPOSED GAS PIPELINE (NO GROUND SURVEY)	NOTE: THE PE SEAL AND SIGNATURE APPLIES ONLY TO THE E&S CONTROL DESIGN COMPLETED BY ERM (SEE NOTE 12).	SLOPE DIRECTION

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; DRAINAGE FEATURES WILL BE PROVIDED FOR ROADS IN CATEGORIES 3 AND 4.
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NO.	DATE	BY	CHKD.	APPD.	DESCRIPTION



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

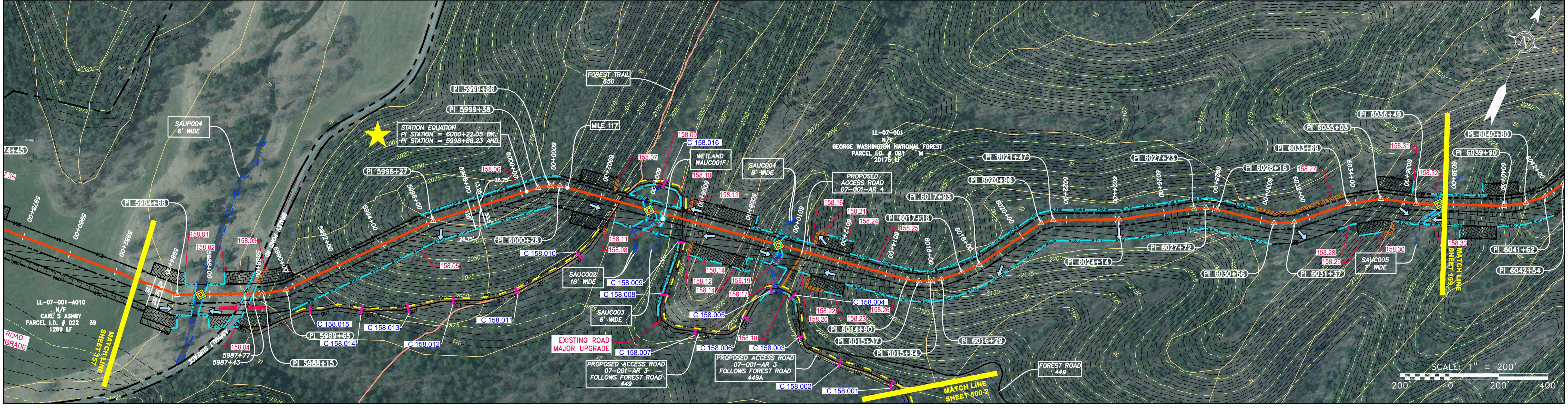
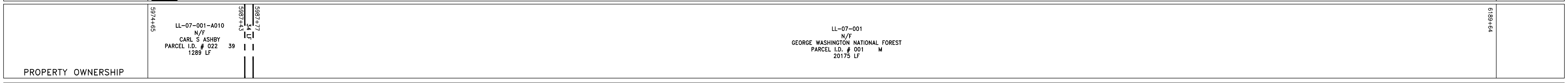
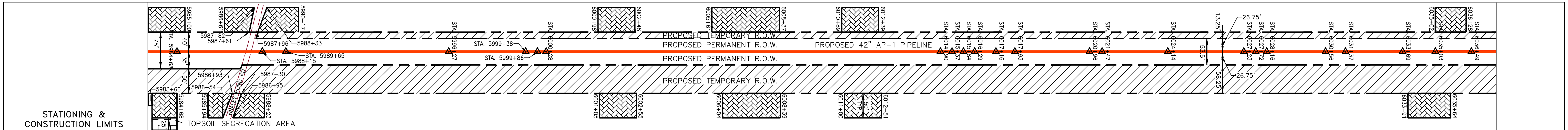
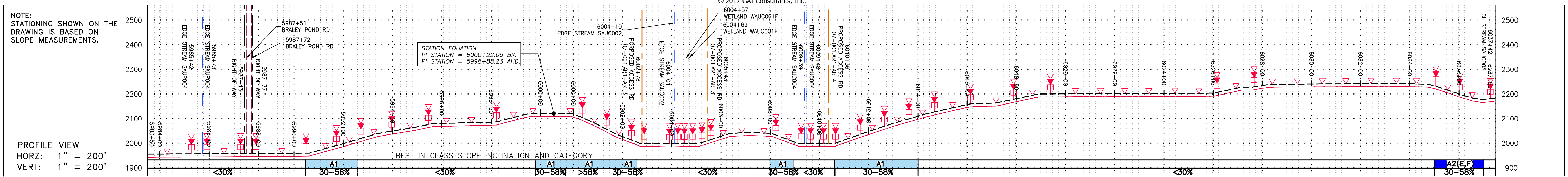
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DATE:	3/24/17
DRAWN:	GPT
CHECKED:	DLH
APPROVED:	NET



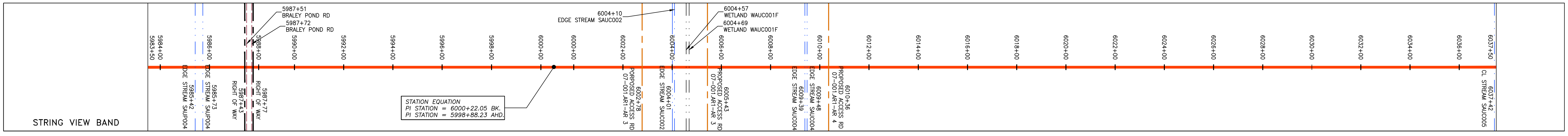
PROJECT NO./DASH NO.	140468
TASK NO. SUB TASK NO.	005 00
GROUP ID DRAWING NO.	D E157
157 OF 344	

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. \VTG-FS1\THRASHER\050-5159 - GIA, INC. - GAI - THRASHER - MAPPING SURVEY DRAWING SEC 3\RR SHEETS 156-158 (11-15).DWG



PIPE SPECIFICATION table with columns for pipe type, size, and material.



LEGEND, NOTES, and REVISIONS section. Includes symbols for property lines, fences, streams, easements, and various engineering notes. The REVISIONS table shows a single revision for 'DATE' and 'CHKD.'.

Professional Engineer seal for Daniel R. Goldstein, License No. 047436, and the logo for Environmental Resource Management (ERM).

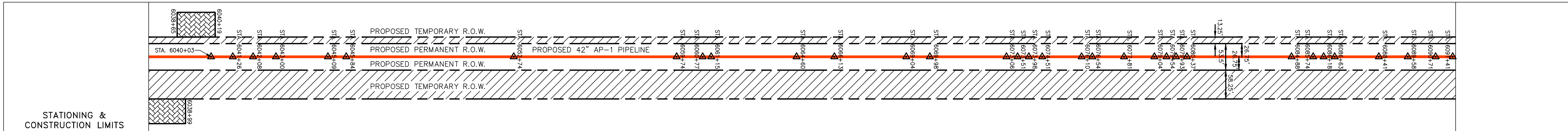
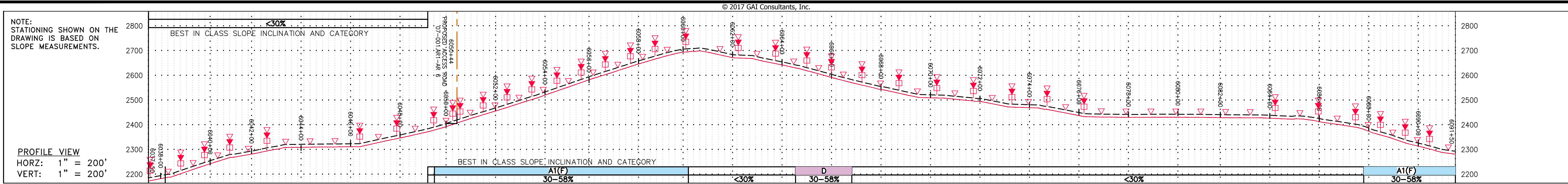
42" AP-1 PIPELINE
CONSTRUCTION ALIGNMENT STA 5983+50 TO 6037+50
ATLANTIC COAST PIPELINE, LLC
C/O DOMINION TRANSMISSION, INC.
925 WHITE OAKS BLVD., BRIDGEPORT, WV 26330

SCALE: AS SHOWN
DATE: 3/24/17
DRAWN: GPT
CHECKED: DLH
APPROVED: NET

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

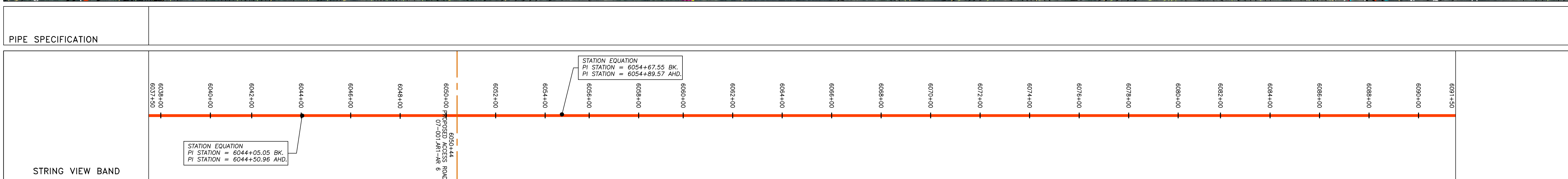
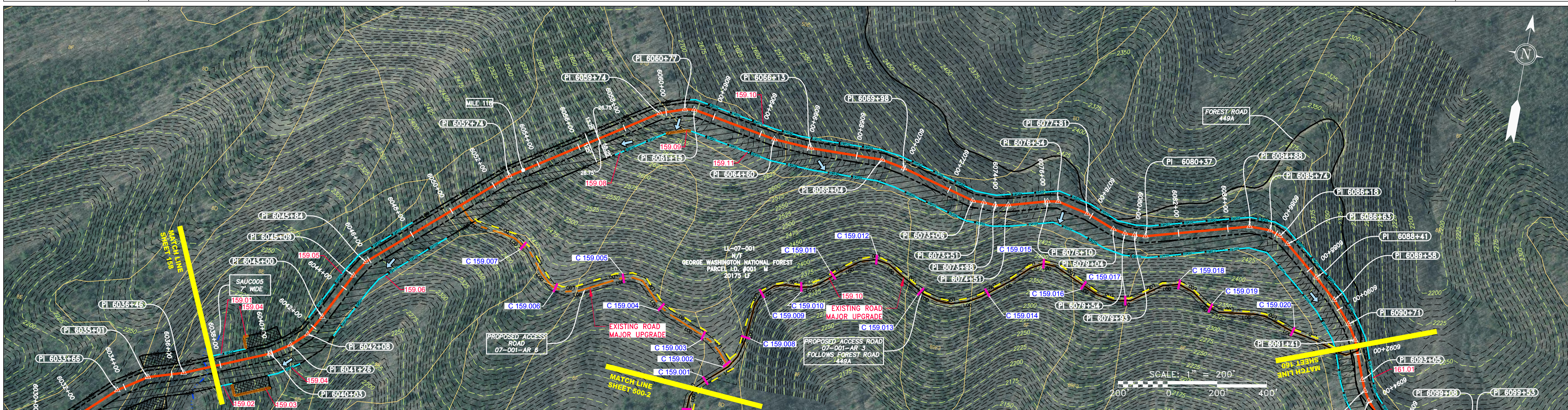
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158 OF 344

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



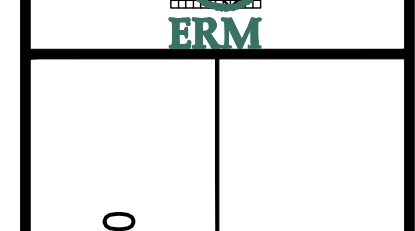
LEGEND

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	NOTE: THE PE SEAL AND SIGNATURE APPLIES ONLY TO THE E&S CONTROL DESIGN COMPLETED BY ERM (SEE NOTE 12).	
OVERHEAD UTILITY LINES	EDGE OF GRAVEL	PERMANENT WATERBAR/SLOPE BREAKER	TEMPORARY WATERBAR/SLOPE BREAKER
ACCESS ROAD	PROPOSED PERMANENT EASEMENT	STREAM CROSSING WITH ENHANCED CONTROLS	USFS STREAM CROSSING
PROPOSED GAS PIPELINE	PROPOSED GAS PIPELINE (NO GROUND SURVEY)	SLOPE DIRECTION	CULVERT WATERBAR
		LOD	BSRF
		LIMIT OF DISTURBANCE	BELTED SILT RETENTION FENCE (BSRF)
		COMPOST FILTER SOCK	SEDIMENT BARRIER IDENTIFICATION
		CULVERT IDENTIFICATION	ORANGE SAFETY FENCE
		ROADSIDE DITCH	SOIL TYPE
		TYPICAL BIG SLOPE CATEGORY SLOPE INCLINATION	

NOTES:

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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

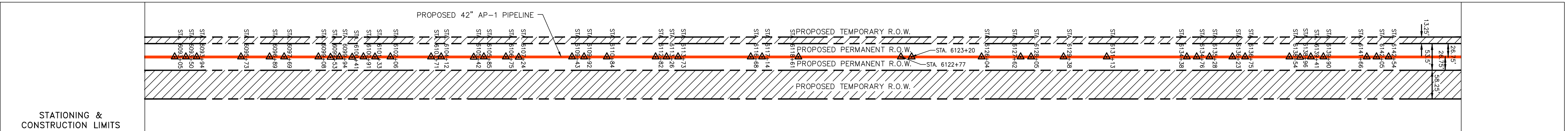
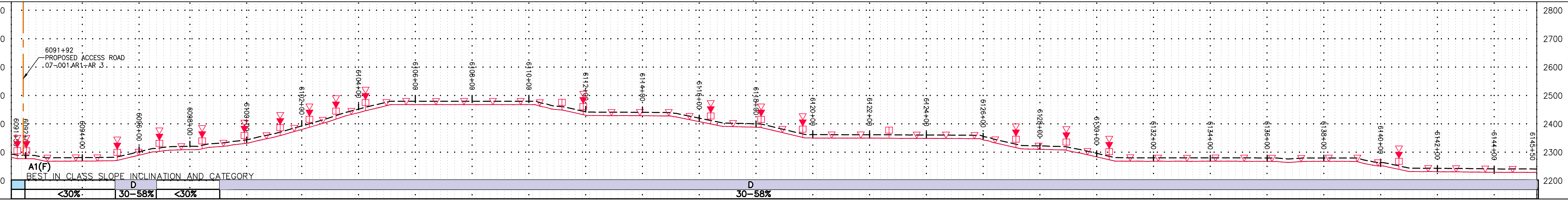
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DATE: 3/24/17
DRAWN: GPT
CHECKED: DLH
APPROVED: NET



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

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

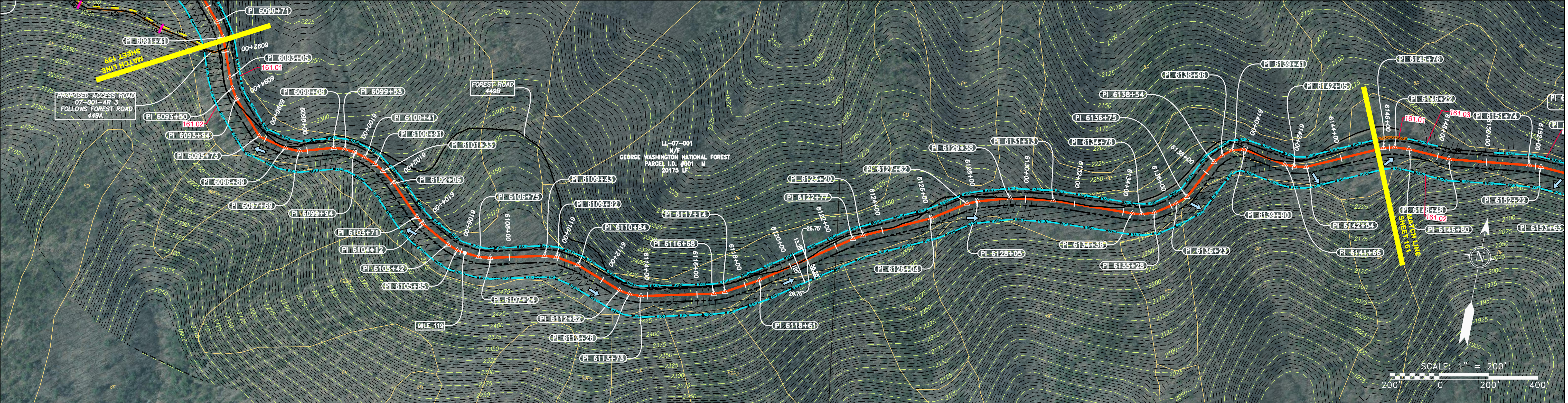
PROFILE VIEW
HORZ: 1" = 200'
VERT: 1" = 200'



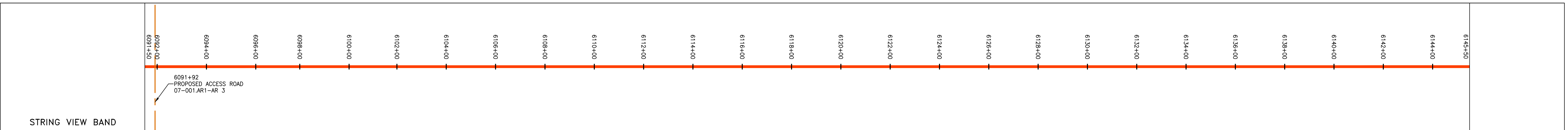
STATIONING & CONSTRUCTION LIMITS

PROPERTY OWNERSHIP

LL-07-001
N/F
GEORGE WASHINGTON NATIONAL FOREST
PARCEL I.D. #001 M
2017S LF



PIPE SPECIFICATION



LEGEND

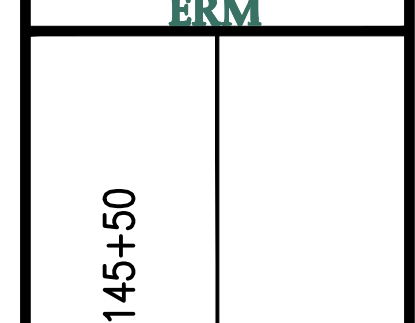
PROPERTY LINE	STORM SEWER	EXTRA WORK SPACE	TOPSOIL SEGREGATION AREA
FENCE	UNDERGROUND ELECTRIC	AREA OF NO DISTURBANCE	PROPOSED TEMPORARY R.O.W.
STREAM	WATER LINE	WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)	UTILITY POLE
EXISTING GAS PIPELINE	SANITARY SEWER		
OVERHEAD UTILITY LINES	EDGE OF GRAVEL		
ACCESS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

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

NOTES:

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NO.	DATE	DWN.	CHKD.	APPVD.	DESCRIPTION



42" AP-1 PIPELINE
CONSTRUCTION ALIGNMENT STA: 6091+50 TO 6145+50
AUGUSTA COUNTY, VIRGINIA

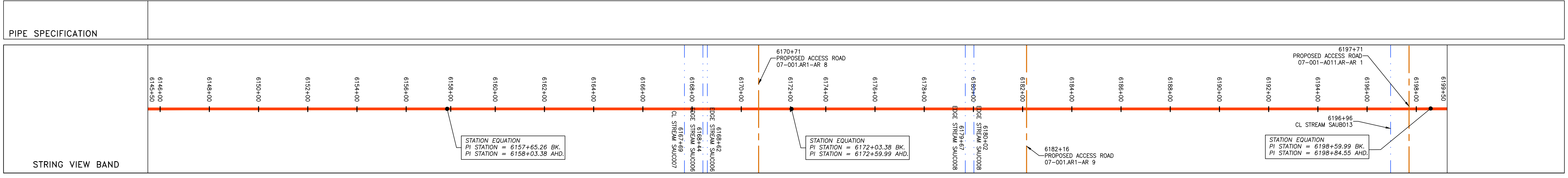
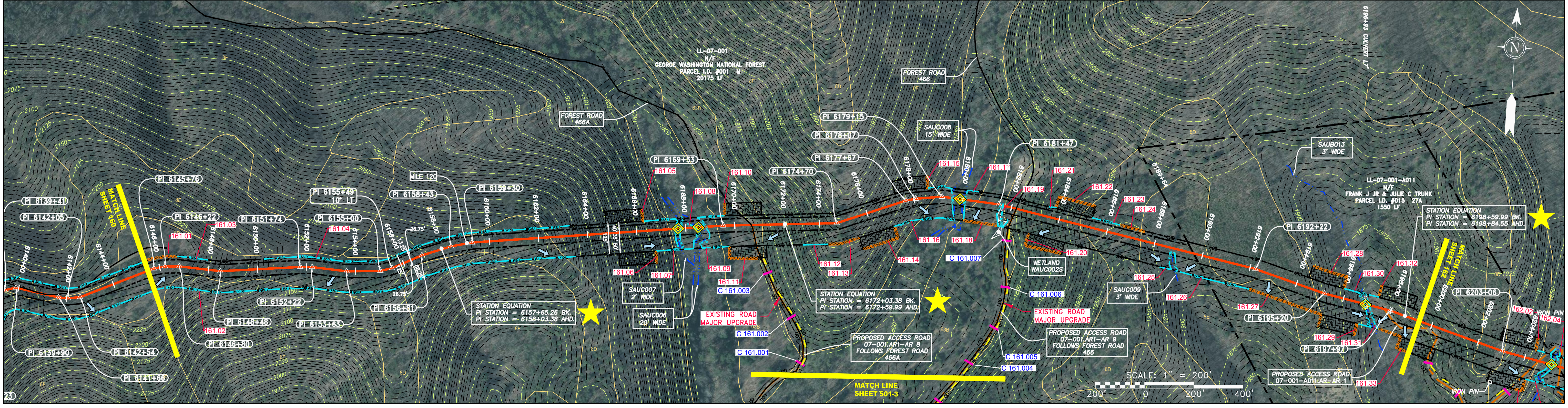
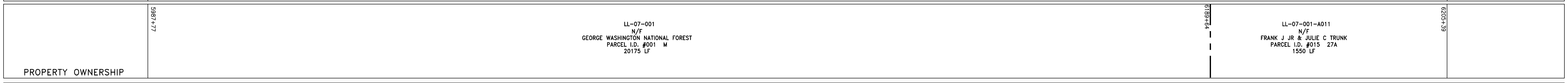
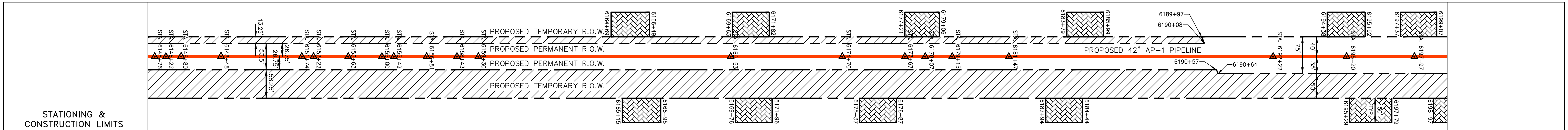
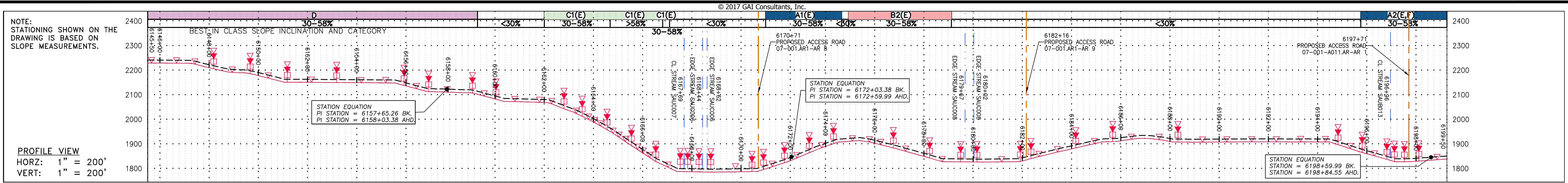
ATLANTIC COAST PIPELINE, LLC
C/O DOMINION TRANSMISSION, INC.
925 WHITE OAKS BLVD., BRIDGEPORT, WV 26330

SCALE: AS SHOWN
DATE: 3/24/17
DRAWN: GPT
CHECKED: DLH
APPROVED: NET



PROJECT NO./DASH NO.	140468
TASK NO. SUB TASK NO.	005 00
GROUP ID DRAWING NO.	D E160
160 OF 344	

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



LEGEND

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

NOTES:

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- EROSION CONTROL MATTING SHALL BE PLACED IN AREAS OF 30% SLOPE AND GREATER, WHICH ARE INDICATED ON THE BEST IN CLASS STEEP SLOPES BAND.
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REVISIONS

NO.	DATE	BY	CHKD.	APPD.	DESCRIPTION

Professional Engineer
 Daniel R. Goldstein
 Lic. No. 047436
 ERM

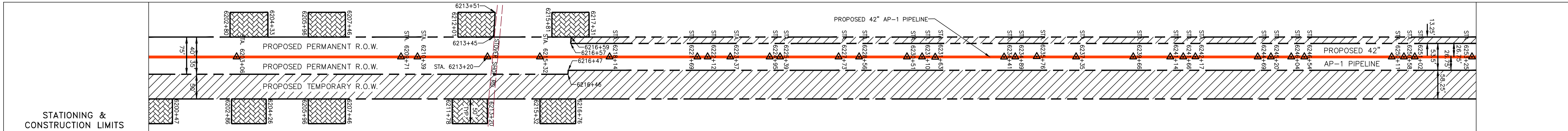
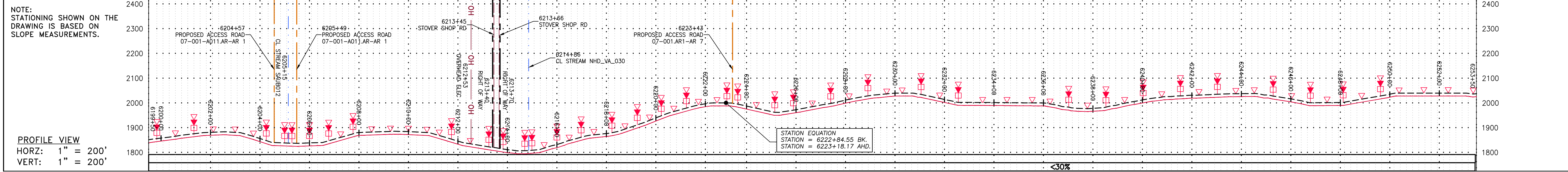
42" AP-1 PIPELINE
 CONSTRUCTION ALIGNMENT STA: 6145+50 TO 6199+50
 ATLANTIC COAST PIPELINE, LLC
 C/O DOMINION TRANSMISSION, INC.
 925 WHITE OAKS BLVD., BRIDGEPORT, WV 26330

SCALE: AS SHOWN
 DATE: 3/24/17
 DRAWN: GPT
 CHECKED: DLH
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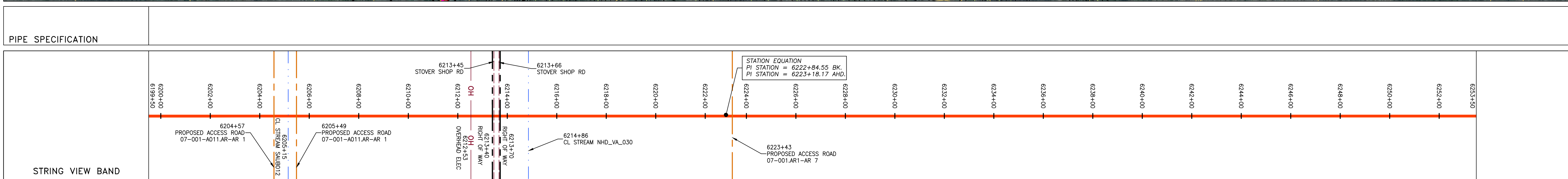
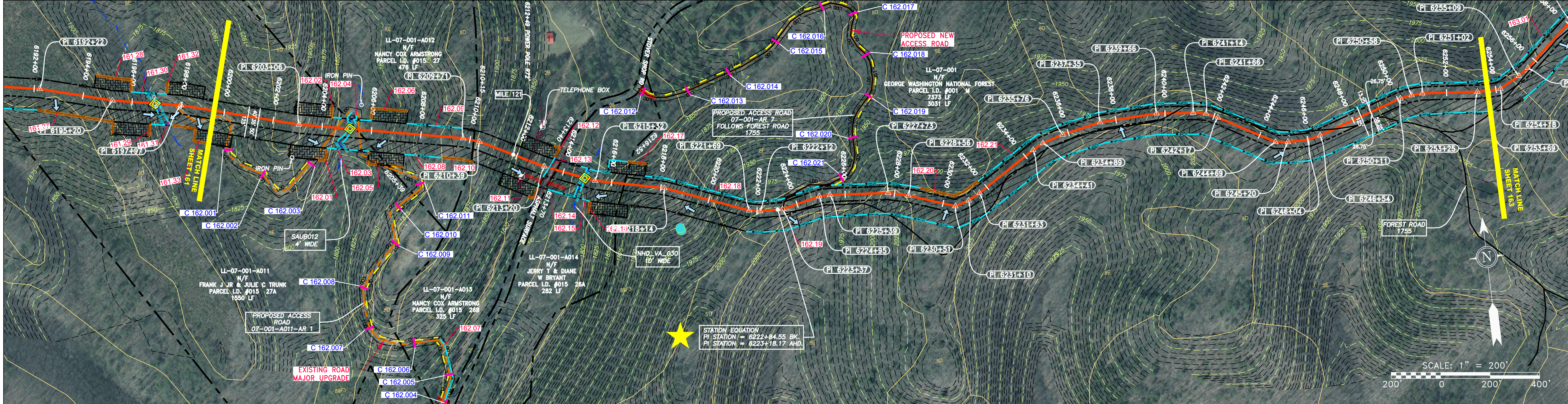
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GAI CAD FILE NO. \\\TTC-FS1\THRASHER\050-5159 - GAI, INC. - SERP - THRASHER - MAPPING SURVEY DRAWING SEC 3 RR SHEETS 159-163 (16-20).DWG

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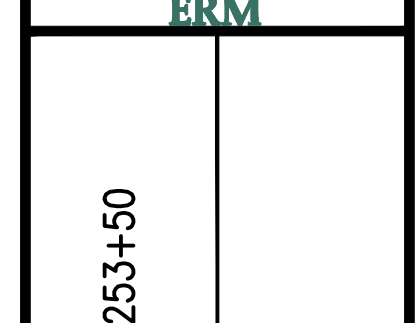


PROPERTY OWNERSHIP
LL-07-001-A011 N/F FRANK J JR & JULIE C TRUNK PARCEL I.D. #015 27A 1550 LF
LL-07-001-A012 N/F NANCY COX ARMSTRONG PARCEL I.D. #015 27 476 LF
LL-07-001-A013 N/F NANCY COX ARMSTRONG PARCEL I.D. #015 28B 325 LF
LL-07-001-A014 N/F JERRY T & DIANE W BRYANT PARCEL I.D. #015 26A 282 LF
LL-07-001 N/F GEORGE WASHINGTON NATIONAL FOREST PARCEL I.D. #001 M 7373 LF



<p>LEGEND</p> <p>PROPERTY LINE: Solid line with dashes</p> <p>FENCE: Dashed line with 'X' marks</p> <p>STREAM: Blue line with wavy dashes</p> <p>EXISTING GAS PIPELINE: Green line with 'G' marks</p> <p>OVERHEAD UTILITY LINES: Line with 'OH' marks</p> <p>ACCESS ROAD: Solid orange line</p> <p>PROPOSED GAS PIPELINE (NO GROUND SURVEY): Dashed orange line</p> <p>STORM SEWER: Dashed line with 'S' marks</p> <p>UNDERGROUND ELECTRIC: Dashed line with 'E' marks</p> <p>WATER LINE: Dashed line with 'W' marks</p> <p>SANITARY SEWER: Dashed line with 'SAN' marks</p> <p>EDGE OF GRAVEL: Dashed line with 'G' marks</p> <p>PROPOSED PERMANENT EASEMENT: Dashed line with 'PE' marks</p> <p>PROPOSED GAS PIPELINE (NO GROUND SURVEY): Dashed orange line</p>	<p>EXTRA WORK SPACE: Hatched area</p> <p>AREA OF NO DISTURBANCE: Cross-hatched area</p> <p>WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY): Green area</p> <p>TOPSOIL SEGREGATION AREA: Hatched area</p> <p>PROPOSED TEMPORARY R.O.W.: Hatched area</p> <p>UTILITY POLE: Circle with cross</p>	<p>PERMANENT WATERBAR/SLOPE BREAKER: Triangle with 'P'</p> <p>TEMPORARY WATERBAR/SLOPE BREAKER: Triangle with 'T'</p> <p>TRENCH BREAKER/PLUG: Triangle with 'TB'</p> <p>STREAM CROSSING: Triangle with 'SC'</p> <p>USFWS STREAM CROSSING WITH ENHANCED CONTROLS: Triangle with 'USFWS'</p> <p>SEEP: Circle with 'S'</p> <p>SLOPE DIRECTION: Arrow</p> <p>CONSTRUCTION ENTRANCE WITH DITCH: Triangle with 'CE'</p> <p>CULVERT AS NEEDED: Triangle with 'C'</p> <p>CULVERT WATERBAR: Triangle with 'CW'</p>	<p>LOD: Solid line</p> <p>BSRF: Dashed line</p> <p>COMPOST FILTER SOCK: Triangle with 'CFS'</p> <p>SEDIMENT BARRIER IDENTIFICATION: Triangle with 'SBI'</p> <p>CULVERT IDENTIFICATION: Triangle with 'CI'</p> <p>ORANGE SAFETY FENCE: Triangle with 'OSF'</p> <p>ROADSIDE DITCH: Triangle with 'RD'</p> <p>SOIL TYPE: Triangle with 'S'</p> <p>TYPICAL BIG SLOPE CATEGORY SLOPE INDICATION: Triangle with 'BS'</p>	<p>NOTES:</p> <p>1. COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY - UTM WITH NAD83 DATUM, ZONE 17, US SURVEY FOOT, CENTRAL MERIDIAN 81° W, 11-07-2014.</p> <p>2. CONTOURS AND TOPOGRAPHIC FEATURES WERE DERIVED FROM LIDAR DATA AND GPS SUB-METER GROUND SURVEY PERFORMED BY GAI CONSULTANTS, INC FROM 11-03-2014 THRU 11-07-2014.</p> <p>3. IMAGERY TAKEN FROM GOOGLE EARTH.</p> <p>4. THE PROPERTY LINES SHOWN ARE BASED ON GIS & TAX ASSESSMENT RECORDS (PROVIDED BY OTHERS). GAI CONSULTANTS MAKE NO GUARANTEE EITHER EXPRESSED OR IMPLIED AS TO THE ACCURACY OF THE RECORDS AS SHOWN ON THESE DRAWINGS.</p> <p>5. STREAM AND WETLAND DATA SHOWN ON THE DRAWINGS WAS PROVIDED BY ERM.</p> <p>6. EROSION AND SEDIMENTATION CONTROL ELEMENTS MAY BE SHOWN OUTSIDE OF THE WORK AREAS FOR CLARITY ONLY. ACTUAL INSTALLATION SHALL BE WITHIN THE WORK AREAS.</p> <p>7. ALL STATIONING SHOWN IS SLOPE STATIONING.</p> <p>8. SILT FENCE AND FILTER SOCK SHALL BE INSTALLED PARALLEL TO CONTOUR TO EXTENT PRACTICABLE IN ACCORDANCE WITH STANDARD DETAIL.</p> <p>9. BEST IN CLASS (BIC) STEEP SLOPE CATEGORY INFORMATION CAN BE FOUND IN THE APPENDIX OF THE STORMWATER POLLUTION PREVENTION PLAN.</p> <p>10. EROSION CONTROL MATTING SHALL BE PLACED IN AREAS OF 30% SLOPE AND GREATER, WHICH ARE INDICATED ON THE BEST IN CLASS STEEP SLOPES BAND.</p> <p>11. ACCESS ROADS HAVE BEEN GROUPED INTO FOUR CATEGORIES - 1) EXISTING ROADS NO IMPROVEMENTS, 2) EXISTING ROADS MINOR IMPROVEMENTS, 3) EXISTING ROADS MAJOR IMPROVEMENTS AND 4) NEW ROADS. APPROPRIATE EROSION AND SEDIMENT CONTROLS WILL BE PROVIDED FOR ROADS IN CATEGORIES 2, 3 AND 4. ROADS IN CATEGORIES 1 AND 2 HAVE ADEQUATE EXISTING DRAINAGE; DRAINAGE FEATURES WILL BE PROVIDED FOR ROADS IN CATEGORIES 3 AND 4.</p> <p>12. ERM IS SOLELY RESPONSIBLE FOR THE NATURE AND LOCATION OF THE DEPICTED BICMPS AS OF THE DATE SIGNED AND SEALED BASED ON THE SOURCE DATA PROVIDED AND AS DESCRIBED IN THE NOTES SECTION OF THE INDEX SHEET OF THIS PLAN SET.</p> <p>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.</p>
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NO.	DATE	BY	CHKD.	APPD.	DESCRIPTION

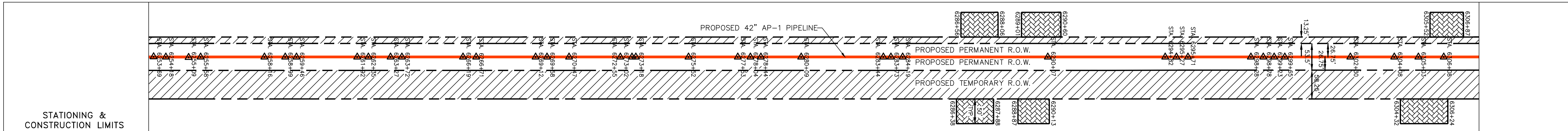
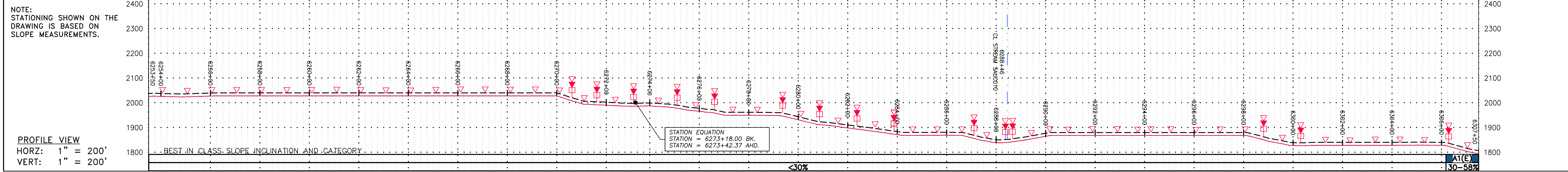


ATLANTIC COAST PIPELINE, LLC
 C/O DOMINION TRANSMISSION, INC.
 925 WHITE OAKS BLVD., BRIDGEPORT, WV 26330

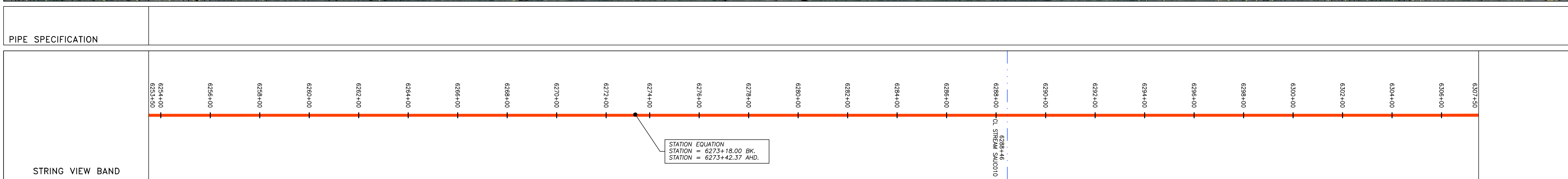
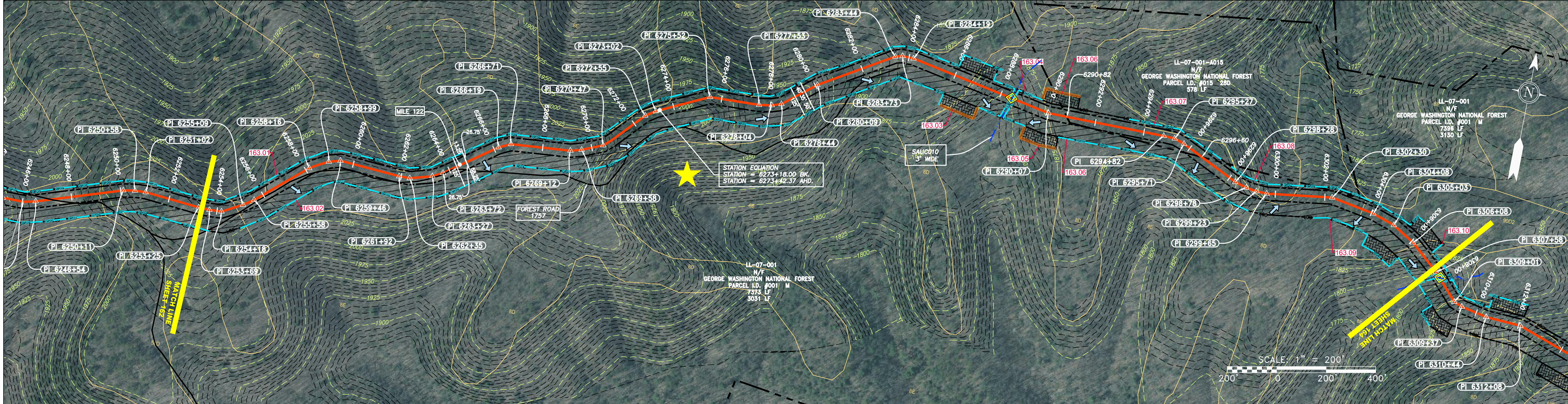
SCALE: AS SHOWN
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PROJECT NO./DASH NO.	140468
TASK NO. SUB TASK NO.	005 00
GROUP ID DRAWING NO.	D E162
162 OF 344	



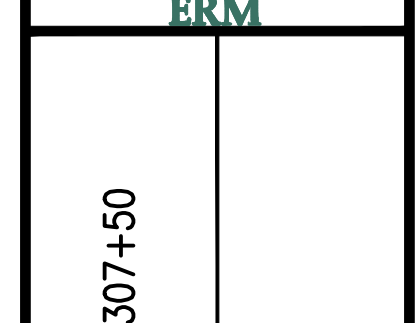
PROPERTY OWNERSHIP	STATIONING & CONSTRUCTION LIMITS
LL-07-001 N/F GEORGE WASHINGTON NATIONAL FOREST PARCEL I.D. #001 M 7373 LF	6250+00 to 6273+00
LL-07-001-015 N/F GEORGE WASHINGTON NATIONAL FOREST PARCEL I.D. #015 280 578 LF	6273+00 to 6296+00
LL-07-001 N/F GEORGE WASHINGTON NATIONAL FOREST PARCEL I.D. #001 M 3051 LF	6296+00 to 6300+00



LEGEND	
— X — X —	FENCE
— G — G —	EXISTING GAS PIPELINE
— OH —	OVERHEAD UTILITY LINES
—	ACCESS ROAD
—	PROPOSED GAS PIPELINE
—	PROPOSED GAS PIPELINE (NO GROUND SURVEY)
— E —	UNDERGROUND ELECTRIC
— W —	WATER LINE
— SAN —	SANITARY SEWER
—	EDGE OF GRAVEL
—	PROPOSED PERMANENT EASEMENT
—	PROPOSED PERMANENT R.O.W.
—	PROPOSED TEMPORARY R.O.W.
—	UTILITY POLE
—	EXTRA WORK SPACE
—	TOPSOIL SEGREGATION AREA
—	AREA OF NO DISTURBANCE
—	WETLAND
—	NOTE: THE PE SEAL AND SIGNATURE APPLIES ONLY TO THE E&S CONTROL DESIGN COMPLETED BY ERM (SEE NOTE 12).
—	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
—	COMPOST FILTER SOCK
—	SEDIMENT BARRIER IDENTIFICATION
—	CULVERT IDENTIFICATION
—	ORANGE SAFETY FENCE
—	ROADSIDE DITCH
—	SOIL TYPE
—	TYPICAL BIG SLOPE CATEGORY
—	SLOPE INCLINATION

NOTES:	
1.	COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY - UTM WITH NAD83 DATUM, ZONE 17, US SURVEY FOOT, CENTRAL MERIDIAN 81° W.
2.	CONTOURS AND TOPOGRAPHIC FEATURES WERE DERIVED FROM LIDAR DATA AND GPS SUB-METER GROUND SURVEY PERFORMED BY GAI CONSULTANTS, INC FROM 11-03-2014 THRU 11-07-2014.
3.	IMAGERY TAKEN FROM GOOGLE EARTH.
4.	THE PROPERTY LINES SHOWN ARE BASED ON GIS & TAX ASSESSMENT RECORDS (PROVIDED BY OTHERS). GAI CONSULTANTS MAKE NO GUARANTEE EITHER EXPRESSED OR IMPLIED AS TO THE ACCURACY OF THE RECORDS AS SHOWN ON THESE DRAWINGS.
5.	STREAM AND WETLAND DATA SHOWN ON THE DRAWINGS WAS PROVIDED BY ERM.
6.	EROSION AND SEDIMENTATION CONTROL ELEMENTS MAY BE SHOWN OUTSIDE OF THE WORK AREAS FOR CLARITY ONLY. ACTUAL INSTALLATION SHALL BE WITHIN THE WORK AREAS.
7.	ALL STATIONING SHOWN IS SLOPE STATIONING.
8.	SILT FENCE AND FILTER SOCK SHALL BE INSTALLED PARALLEL TO CONTOUR TO EXTENT PRACTICABLE IN ACCORDANCE WITH STANDARD DETAIL.
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 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.
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.
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.5.5. 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



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

CONSTRUCTION ALIGNMENT STA: 6253+50 TO 6307+50
 AUGUSTA COUNTY, VIRGINIA

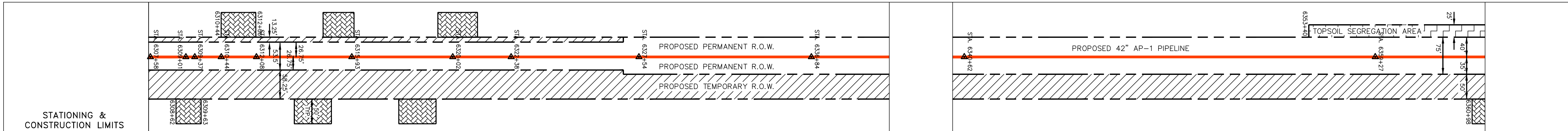
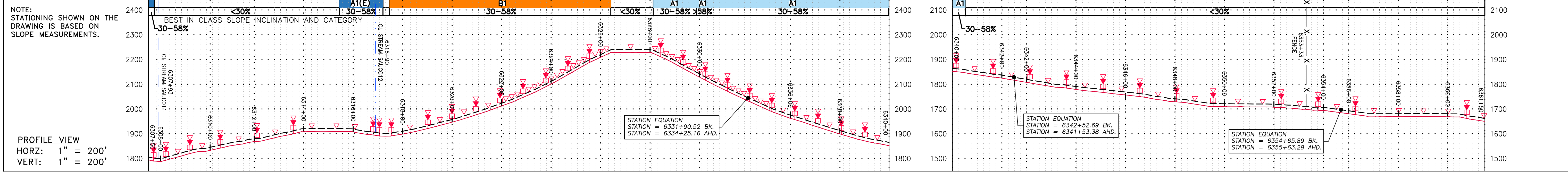
SCALE:	AS SHOWN
DATE:	3/24/17
DRAWN:	GPT
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APPROVED:	NET



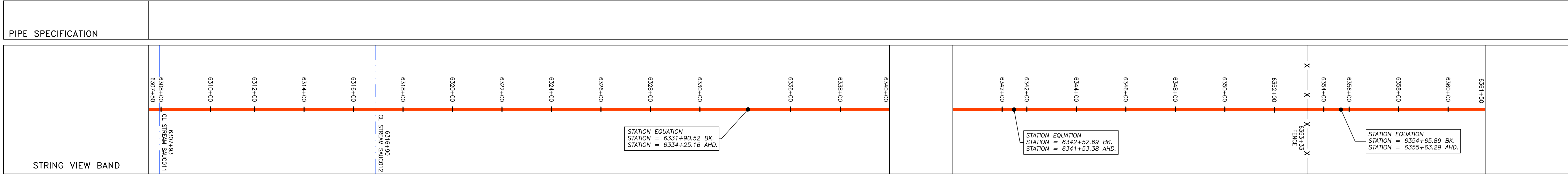
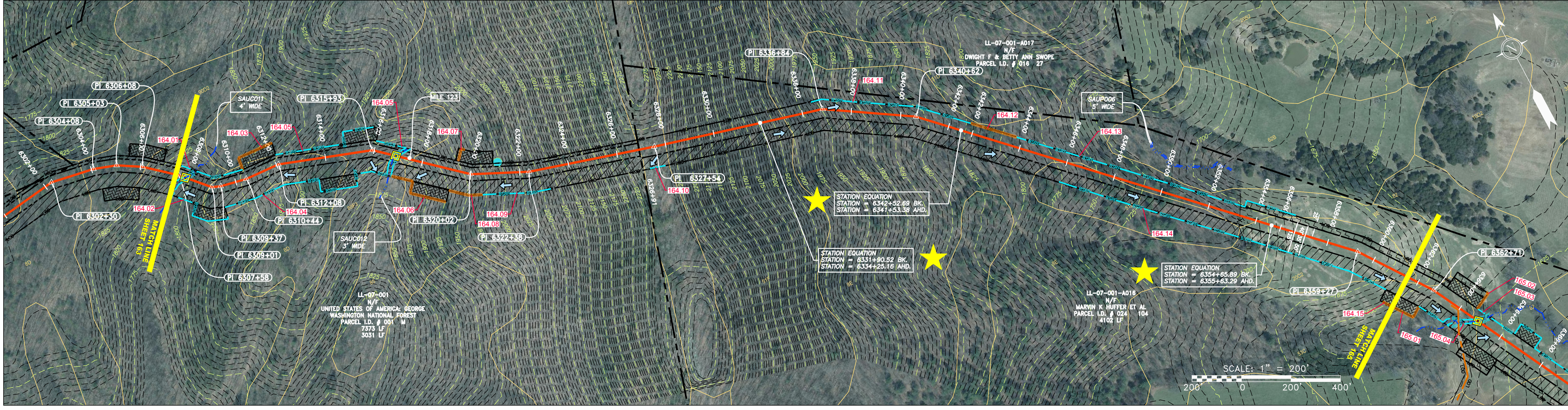
PROJECT NO./DASH NO.	140468
TASK NO. SUB TASK NO.	005 00
GROUP ID DRAWING NO.	D E163
163 OF 344	

GAI CAD FILE NO. R:\050-5159 - GAI - THRASHER - SERP - MAPPING\SURVEY DRAWING\SEC 3\RR SHEETS 164-168 (21-25).DWG

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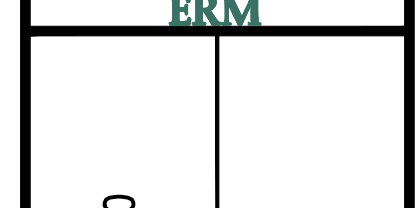


PROPERTY OWNERSHIP
LL-07-001 N/F UNITED STATES OF AMERICA: GEORGE WASHINGTON NATIONAL FOREST PARCEL I.D. # 001 M 3031 LF
LL-07-001-A016 N/F MARVIN K. HUFFER ET AL PARCEL I.D. # 024 104 4102 LF
LL-07-001-A016 N/F MARVIN K. HUFFER ET AL PARCEL I.D. # 024 104 4102 LF



<p>LEGEND</p> <ul style="list-style-type: none"> — X — X — PROPERTY LINE — F — FENCE — G — G — EXISTING GAS PIPELINE — OH — OH — OVERHEAD UTILITY LINES — — — ACCESS ROAD — — — PROPOSED GAS PIPELINE — — — PROPOSED GAS PIPELINE (NO GROUND SURVEY) — — — STORM SEWER — — — UNDERGROUND ELECTRIC — W — W — WATER LINE — SAN — SAN — SANITARY SEWER — — — EDGE OF GRAVEL — — — PROPOSED PERMANENT EASEMENT — — — PROPOSED GAS PIPELINE — — — 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 — LOD — LIMIT OF DISTURBANCE — BSRF — BELTED SILT RETENTION FENCE (BSRF) — — — COMPOST FILTER SOCK — — — SEDIMENT BARRIER IDENTIFICATION — — — CULVERT IDENTIFICATION — — — ORANGE SAFETY FENCE — — — ROADSIDE DITCH — — — SOIL TYPE — — — TYPICAL BIG SLOPE CATEGORY SLOPE INCLINATION 	<p>NOTES:</p> <ol style="list-style-type: none"> COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY - UTM WITH NAD83 DATUM, ZONE 17, US SURVEY FOOT, CENTRAL MERIDIAN 81° W. CONTOURS AND TOPOGRAPHIC FEATURES WERE DERIVED FROM LIDAR DATA AND GPS SUB-METER GROUND SURVEY PERFORMED BY GAI CONSULTANTS, INC FROM 11-03-2014 THRU 11-07-2014. IMAGERY TAKEN FROM GOOGLE EARTH. THE PROPERTY LINES SHOWN ARE BASED ON GIS & TAX ASSESSMENT RECORDS (PROVIDED BY OTHERS). GAI CONSULTANTS MAKE NO GUARANTEE EITHER EXPRESSED OR IMPLIED AS TO THE ACCURACY OF THE RECORDS AS SHOWN ON THESE DRAWINGS. STREAM AND WETLAND DATA SHOWN ON THE DRAWINGS WAS PROVIDED BY ERM. EROSION AND SEDIMENTATION CONTROL ELEMENTS MAY BE SHOWN OUTSIDE OF THE WORK AREAS FOR CLARITY ONLY. ACTUAL INSTALLATION SHALL BE WITHIN THE WORK AREAS. ALL STATIONING SHOWN IS SLOPE STATIONING. SILT FENCE AND FILTER SOCK SHALL BE INSTALLED PARALLEL TO CONTOUR TO EXTENT PRACTICABLE IN ACCORDANCE WITH STANDARD DETAIL. BEST IN CLASS (BIC) STEEP SLOPE CATEGORY INFORMATION CAN BE FOUND IN THE APPENDIX OF THE STORMWATER POLLUTION PREVENTION PLAN. EROSION CONTROL MATTING SHALL BE PLACED IN AREAS OF 30% SLOPE AND GREATER, WHICH ARE INDICATED ON THE BEST IN CLASS STEEP SLOPES BAND. ACCESS ROADS HAVE BEEN GROUPED INTO FOUR CATEGORIES - 1) EXISTING ROADS NO IMPROVEMENTS, 2) EXISTING ROADS MINOR IMPROVEMENTS, 3) EXISTING ROADS MAJOR IMPROVEMENTS AND 4) NEW ROADS. APPROPRIATE EROSION AND SEDIMENT CONTROLS WILL BE PROVIDED FOR ROADS IN CATEGORIES 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.A.S. FEDERAL ENERGY REGULATORY COMMISSION (FERC) UPLAND EROSION CONTROL, REVEGETATION, AND MAINTENANCE PLAN, SECTION V.A.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.
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NO.	DATE	BY	CHKD.	APPVD.	DESCRIPTION



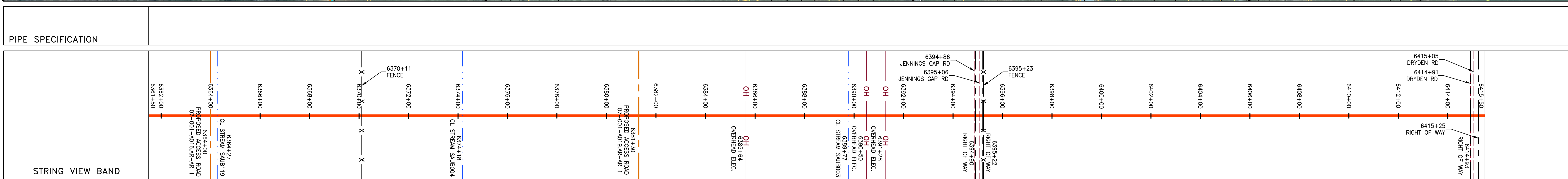
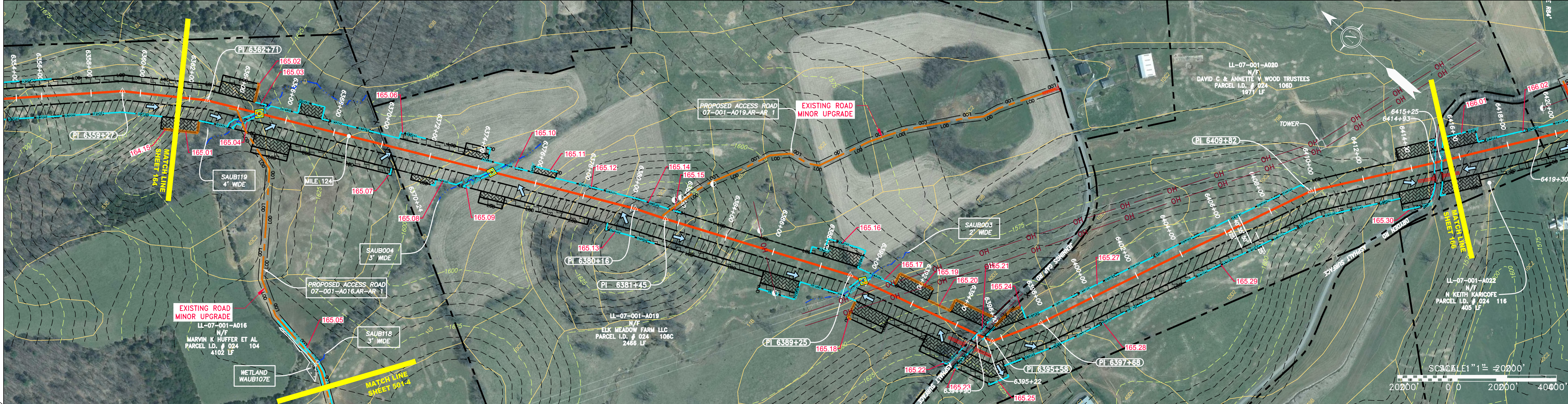
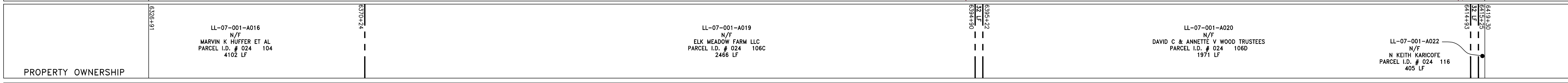
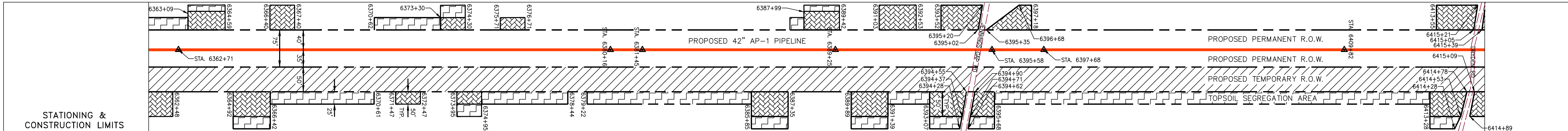
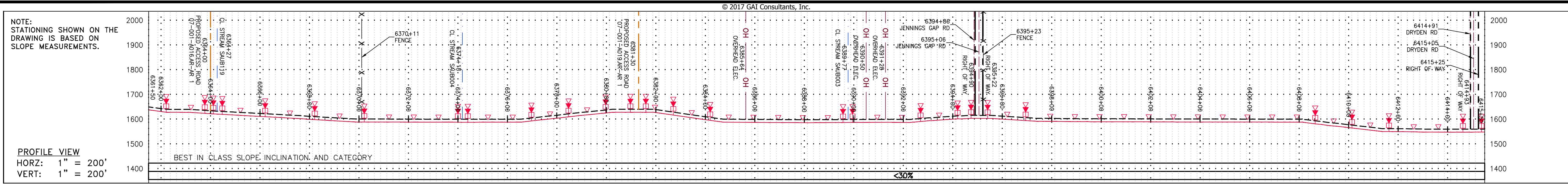
42" AP-1 PIPELINE
CONSTRUCTION ALIGNMENT STA 6307+50 TO 6361+50
ATLANTIC COAST PIPELINE, LLC
C/O DOMINION TRANSMISSION, INC.
925 WHITE OAKS BLVD., BRIDGEPORT, WV 26330

SCALE: AS SHOWN
DATE: 3/24/17
DRAWN: GPT
CHECKED: DLH
APPROVED: NET



PROJECT NO./DASH NO.	140468
TASK NO. SUB TASK NO.	005 00
GROUP ID DRAWING NO.	D E164
164 OF 344	

GAI CAD FILE NO. R:\050-5159 - SERP - THRASHER - GAI - INC. - GAI - THRASHER - SERP - MAPPING SURVEY DRAWING SEC 3 YR SHEETS 164-168 (21-25).DWG



LEGEND

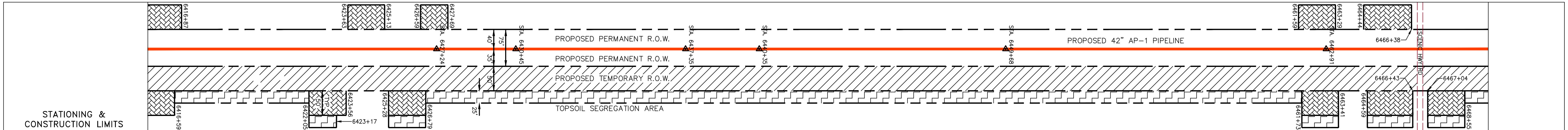
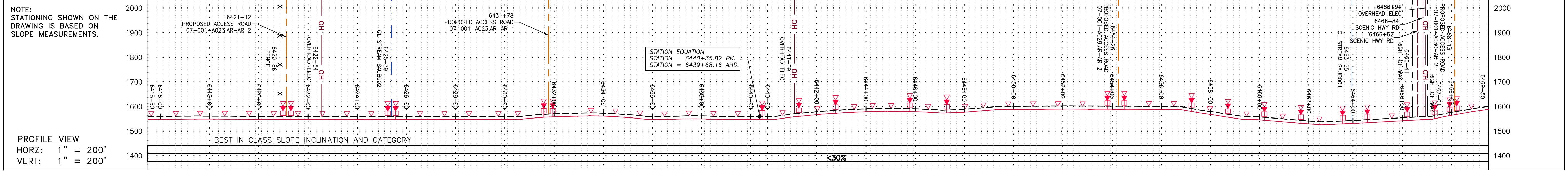
	PROPERTY LINE		STORM SEWER		EXTRA WORK SPACE
	FENCE		UNDERGROUND ELECTRIC		TOPSOIL SEGREGATION AREA
	STREAM		WATER LINE		AREA OF NO DISTURBANCE
	EXISTING GAS PIPELINE		SANITARY SEWER		PROPOSED TEMPORARY R.O.W.
	OVERHEAD UTILITY LINES		EDGE OF GRAVEL		WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)
	ACCESS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

	PERMANENT WATERBAR/SLOPE BREAKER		LOD		LIMIT OF DISTURBANCE
	TEMPORARY WATERBAR/SLOPE BREAKER		BSRF		BELTED SILT RETENTION FENCE (BSRF)
	TRENCH BREAKER/PLUG		111.03 C 111.001		COMPOST FILTER SOCK
	STREAM CROSSING				SEDIMENT BARRIER IDENTIFICATION
	USFS STREAM CROSSING WITH ENHANCED CONTROLS				CULVERT IDENTIFICATION
	ORANGE SAFETY FENCE				ROADSIDE DITCH
	SLOP				SOIL TYPE
	SLOPE DIRECTION		A1 (E) 30-58%		TYPICAL BIG SLOPE CATEGORY SLOPE INCLINATION
	CONSTRUCTION ENTRANCE WITH DITCH				
	CULVERT AS NEEDED				
	CULVERT WATERBAR				

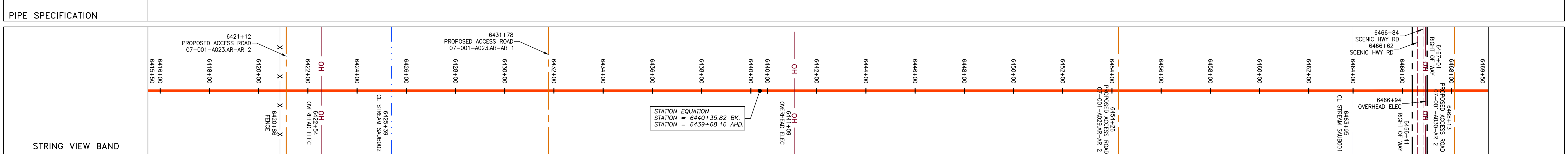
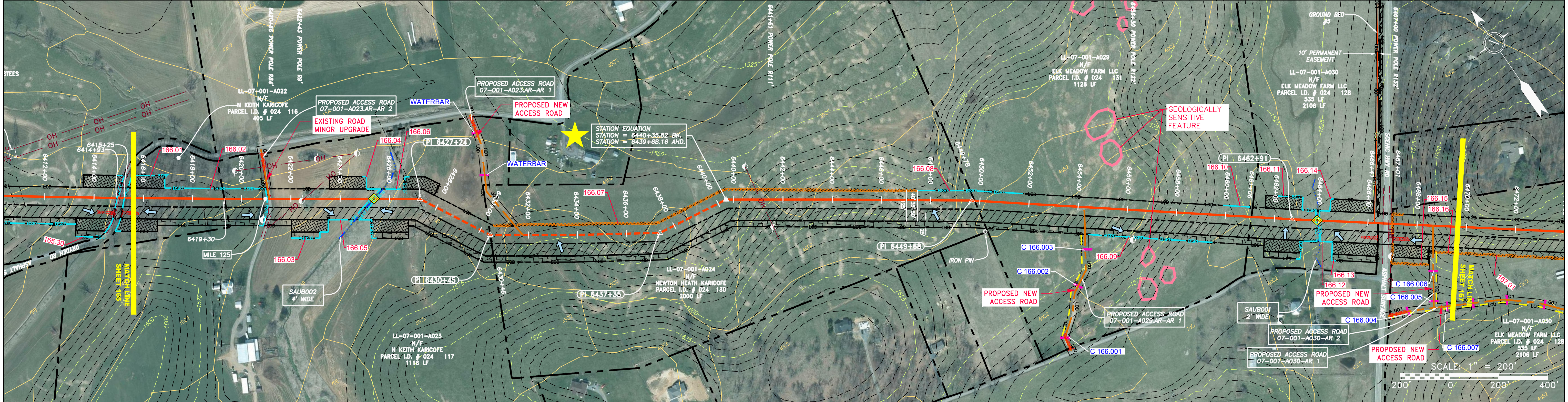
NOTES:

- COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY - UTM WITH NAD83 DATUM, ZONE 17, US SURVEY FOOT, CENTRAL MERIDIAN 81° W.
- 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.
- BEST IN CLASS SLOPE CATEGORY INFORMATION CAN BE FOUND IN THE APPENDIX OF THE STORMWATER POLLUTION PREVENTION PLAN.
- ALL STATIONING SHOWN IS SLOPE STATIONING.
- SILT FENCE AND FILTER SOCK SHALL BE INSTALLED 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.A.5 FEDERAL ENERGY REGULATORY COMMISSION (FERC) UPLAND EROSION CONTROL, VEGETATION, 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.

<p>PROJECT NO./DASH NO. 140468</p> <p>TASK NO. SUB TASK NO. 005 00</p> <p>GROUP ID DRAWING NO. D E165</p> <p>165 OF 344</p>	<p>REVISIONS</p> <table border="1"> <tr> <th>NO.</th> <th>DATE</th> <th>BY</th> <th>CHKD.</th> <th>APPD.</th> <th>DESCRIPTION</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	NO.	DATE	BY	CHKD.	APPD.	DESCRIPTION						
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<p>SCALE: AS SHOWN</p> <p>DATE: 3/24/17</p> <p>DRAWN: GPT</p> <p>CHECKED: DLH</p> <p>APPROVED: NET</p>													
<p>gai consultants</p> <p>SOUTHPOINTE OFFICE 6000 TOWN CENTER BLDG. CANONSBURG, PA 15317 724-873-3545</p>													
<p>42" AP-1 PIPELINE CONSTRUCTION ALIGNMENT STA 6361+50 TO 6415+50</p> <p>ATLANTIC COAST PIPELINE, LLC C/O DOMINION TRANSMISSION, INC. 925 WHITE OAKS BLVD., BRIDGEPORT, WV 26330</p>													



PROPERTY OWNERSHIP	LL-07-001-A022	LL-07-001-A023	LL-07-001-A024	LL-07-001-A029	LL-07-001-A030	LL-07-001-A030
N KEITH KARICOFFE PARCEL I.D. # 024 116 405 LF	N KEITH KARICOFFE PARCEL I.D. # 024 117 1116 LF	NEWTON HEATH KARICOFFE PARCEL I.D. # 024 130 2000 LF	ELK MEADOW FARM LLC PARCEL I.D. # 024 131 1128 LF	ELK MEADOW FARM LLC PARCEL I.D. # 024 128 535 LF	ELK MEADOW FARM LLC PARCEL I.D. # 024 128 335 LF	ELK MEADOW FARM LLC PARCEL I.D. # 024 128 2106 LF



LEGEND

PROPERTY LINE	STORM SEWER	EXTRA WORK SPACE	LIMIT OF DISTURBANCE
FENCE	UNDERGROUND ELECTRIC	TOPSOIL SEGREGATION AREA	BELTED SILT RETENTION FENCE (BSRF)
STREAM	WATER LINE	AREA OF NO DISTURBANCE	COMPOST FILTER SOCK
EXISTING GAS PIPELINE	SANITARY SEWER	PROPOSED TEMPORARY R.O.W.	SEDIMENT BARRIER IDENTIFICATION
OVERHEAD UTILITY LINES	EDGE OF GRAVEL	WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)	CULVERT IDENTIFICATION
ACCESS ROAD	PROPOSED PERMANENT EASEMENT	UTILITY POLE	ORANGE SAFETY FENCE
PROPOSED GAS PIPELINE	PROPOSED GAS PIPELINE (NO GROUND SURVEY)		ROADSIDE DITCH

NOTES:

- COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY - UTM WITH NAD83 DATUM, ZONE 17, US SURVEY FOOT, CENTRAL MERIDIAN 81° W.
- CONTOURS AND TOPOGRAPHIC FEATURES WERE DERIVED FROM LIDAR DATA AND GPS SUB-METER GROUND SURVEY PERFORMED BY GAI CONSULTANTS, INC FROM 11-03-2014 THRU 11-07-2014.
- IMAGERY TAKEN FROM GOOGLE EARTH.
- THE PROPERTY LINES SHOWN ARE BASED ON GIS & TAX ASSESSMENT RECORDS (PROVIDED BY OTHERS). GAI CONSULTANTS MAKE NO GUARANTEE EITHER EXPRESSED OR IMPLIED AS TO THE ACCURACY OF THE RECORDS AS SHOWN ON THESE DRAWINGS.
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- CONSTRUCTION ENTRANCES SHALL BE INSTALLED PARALLEL TO CONTOUR TO EXTENT PRACTICABLE IN ACCORDANCE WITH STANDARD DETAIL.
- SILT FENCE AND FILTER SOCK SHALL BE INSTALLED PARALLEL TO CONTOUR TO EXTENT PRACTICABLE IN ACCORDANCE WITH STANDARD DETAIL.
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- EROSION CONTROL MATTING SHALL BE PLACED IN AREAS OF 30% SLOPE OR GREATER, WHICH ARE INDICATED ON THE BEST IN CLASS STEEP SLOPES BAND.
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REVISIONS

NO.	DATE	BY	CHKD.	APPD.	DESCRIPTION

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

CONSTRUCTION ALIGNMENT STA 6415+50 TO 6469+50

SCALE: AS SHOWN
 DATE: 3/24/17
 DRAWN: GPT
 CHECKED: DLH
 APPROVED: NET

gai consultants

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

PROJECT NO./DASH NO.
140468

TASK NO. SUB TASK NO.
005 00

GROUP ID DRAWING NO.
D E166

16 OF 344

GAI CAD FILE NO. R:\050-5159 - GAI - THRASHER - SERP - MAPPING\SURVEY\DRAWING\SEC 3\RR SHEETS 164-168 (21-25).DWG