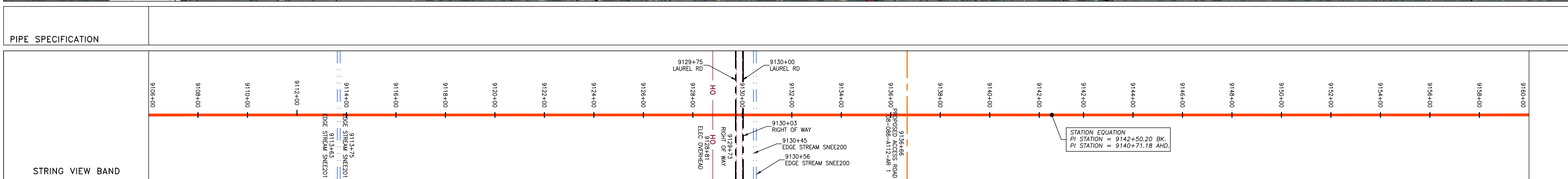
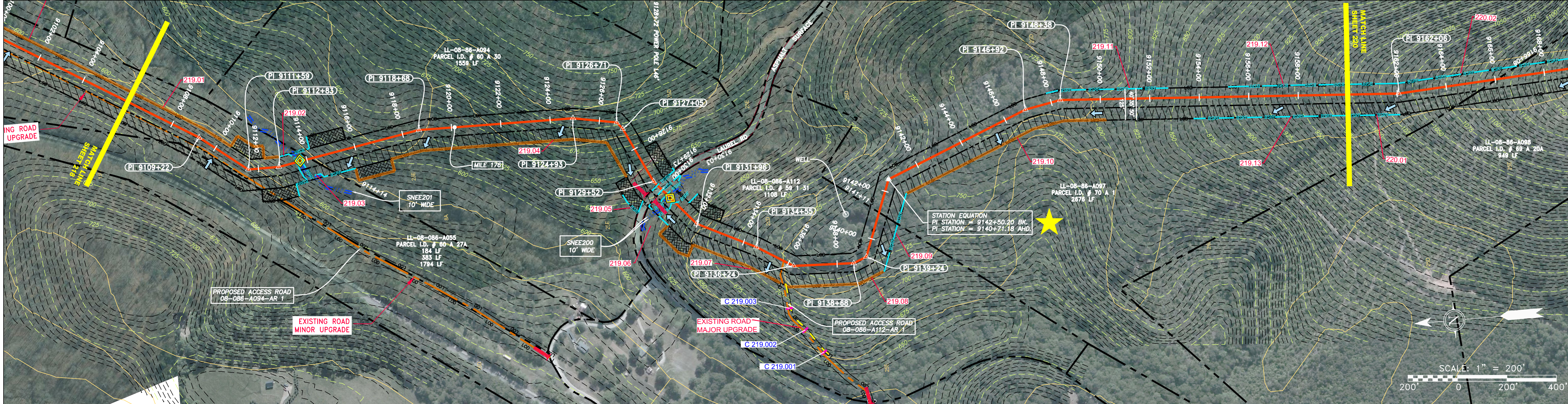
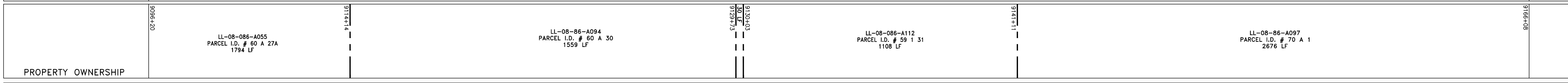
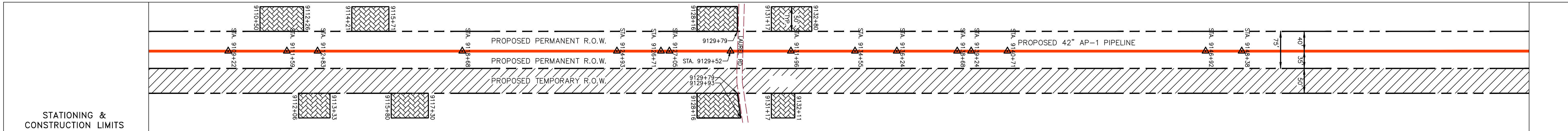
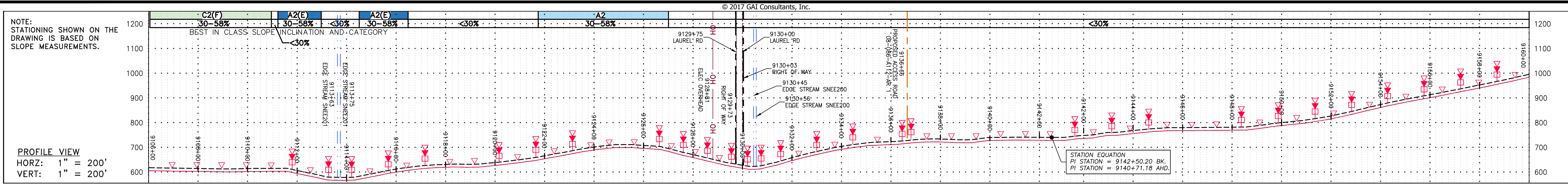


GAI CAD FILE NO. \VTG-FS1\THRASHER\050-5159 - GIA, INC. - SERP - MAPPING\SURVEY\DRAWING\SEC 4\BACKUP\SEC 4-25-16.DWG



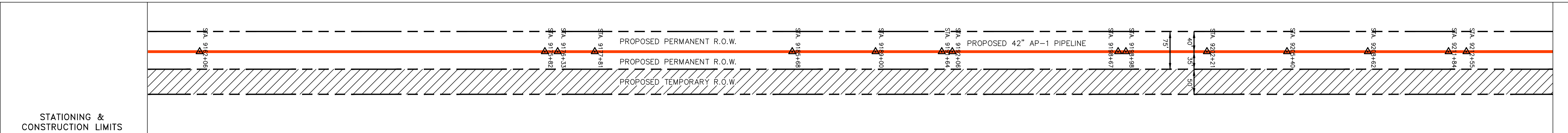
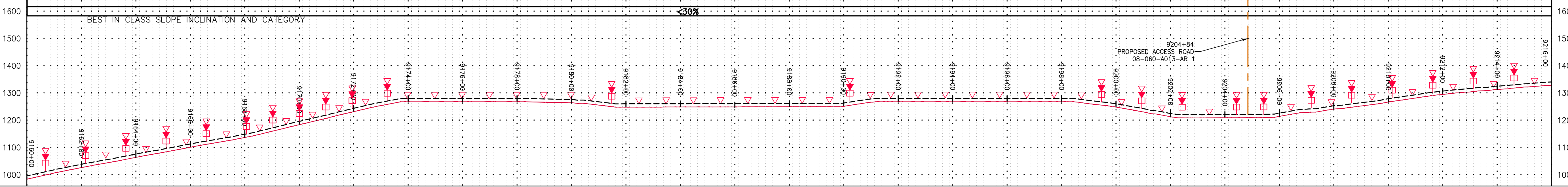
LEGEND	
	PROPERTY LINE
	FENCE
	STREAM
	EXISTING GAS PIPELINE
	OVERHEAD UTILITY LINES
	ACCESS ROAD
	PROPOSED GAS PIPELINE
	STORM SEWER
	UNDERGROUND ELECTRIC
	WATER LINE
	SANITARY SEWER
	EDGE OF GRAVEL
	PROPOSED PERMANENT EASEMENT
	PROPOSED GAS PIPELINE (NO GROUND SURVEY)
	EXTRA WORK SPACE
	AREA OF NO DISTURBANCE
	WETLAND (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
	STORM CROSSING
	USFS 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
	ORANGE SAFETY FENCE
	ROADSIDE DITCH
	SOIL TYPE
	TYPICAL BIG SLOPE CATEGORY
	TYPICAL INCLINE

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 GIA 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). GIA 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.	BEST IN CLASS (BIC) STEEP SLOPE CATEGORY INFORMATION CAN BE FOUND IN THE APPENDIX OF THE STORMWATER POLLUTION PREVENTION PLAN.
8.	ALL STATIONING SHOWN IS SLOPE STATIONING.
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.	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.	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.
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.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.

ATLANTIC COAST PIPELINE, LLC C/O DOMINION TRANSMISSION, INC. 925 WHITE OAKS BLVD., BRIDGEPORT, WV 26330	
42" AP-1 PIPELINE CONSTRUCTION ALIGNMENT STA 9108+00 TO 9160+00 NELSON COUNTY, VIRGINIA	
SCALE:	AS SHOWN
DATE:	6/20/17
DRAWN:	GPT
CHECKED:	DLH
APPROVED:	NET
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 E219
219 OF	344

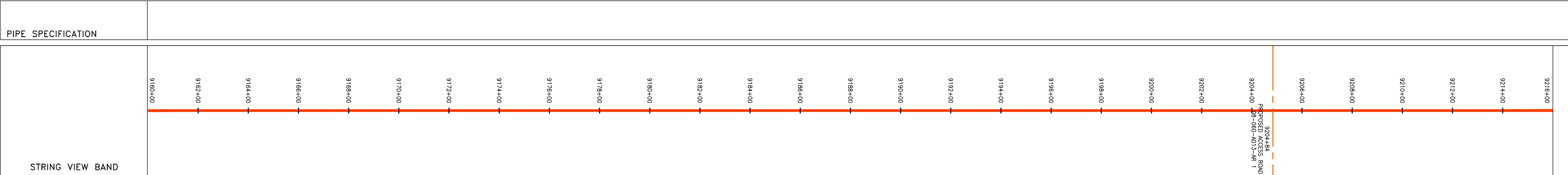
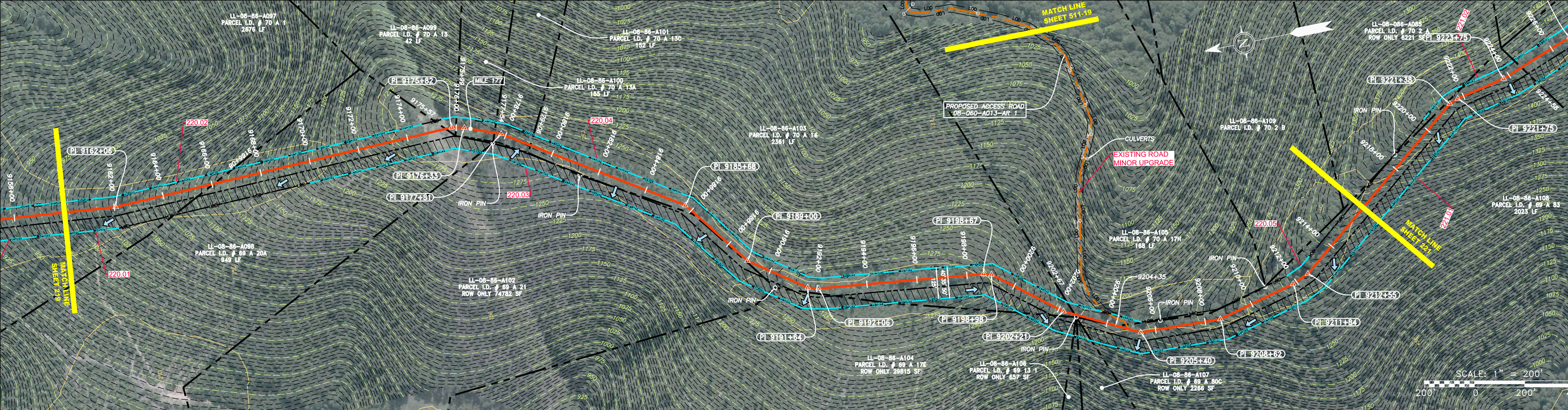
NOTE: STATIONING SHOWN ON THE DRAWING IS BASED ON SLOPE MEASUREMENTS.

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



PROPERTY OWNERSHIP table listing parcel IDs and owners:

LL-08-86-A097 PARCEL I.D. # 70 A 1 2676 LF	LL-08-86-A098 PARCEL I.D. # 69 A 20A 949 LF	LL-08-86-A099 PARCEL I.D. # 70 A 13 42 LF	LL-08-86-A100 PARCEL I.D. # 70 A 13A 155 LF	LL-08-86-A101 PARCEL I.D. # 70 A 13C 152 LF	LL-08-86-A102 PARCEL I.D. # 69 A 21 ROW ONLY 74782 SF	LL-08-86-A103 PARCEL I.D. # 70 A 14 2361 LF	LL-08-86-A104 PARCEL I.D. # 69 A 17E ROW ONLY 29815 SF	LL-08-86-A105 PARCEL I.D. # 70 A 17H 168 LF	LL-08-86-A106 PARCEL I.D. # 69 A 17C ROW ONLY 2266 SF	LL-08-86-A107 PARCEL I.D. # 69 A 80C ROW ONLY 2266 SF	LL-08-86-A108 PARCEL I.D. # 69 A 83 2023 LF
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LEGEND

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

NOTES:

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REVISIONS

NO.	DATE	BY	CHKD.	APPD.	DESCRIPTION

PROFESSIONAL ENGINEER
DANIEL R. GOLDSTEIN
Lic. No. 047436

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

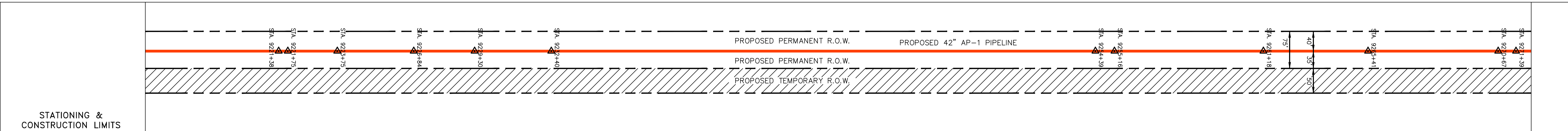
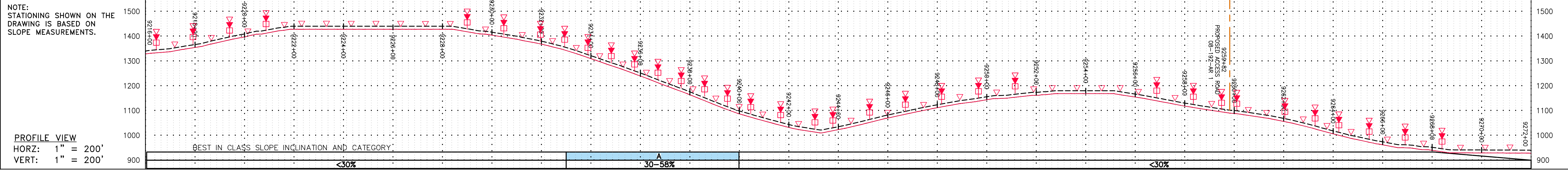
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DATE: 6/20/17
DRAWN: GPT
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APPROVED: NET

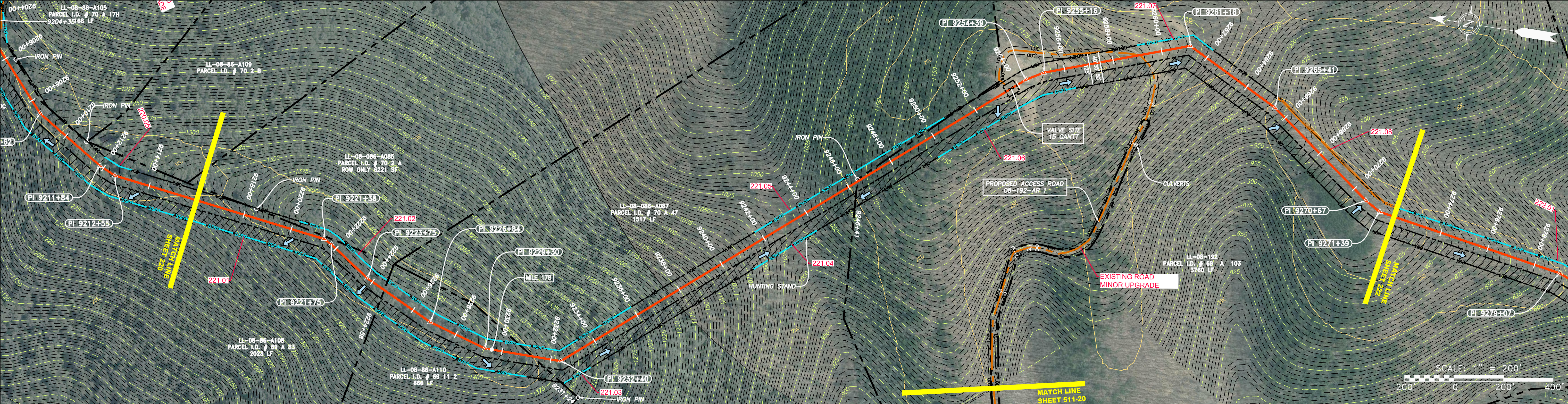
gai consultants
SOUTHPOINTE OFFICE
6000 TOWN CENTER BLVD.
CANONSBURG, PA 15317
724-873-3545

PROJECT NO./DASH NO. 140468
TASK NO. SUB TASK NO. 005 00
GROUP ID DRAWING NO. D E220
220 OF 344

GAI CAD FILE NO. \NTG-FS1\THRASHER\050-5159 - GIA, INC. - GAI - THRASHER - SERP - MAPPING\SURVEY\DRAWING\SEC 4 BACKUP\SEC 4 SHEETS - 217-222 (11-16) REROUTE 4-25-16.DWG



PROPERTY OWNERSHIP
LL-08-086-A085 PARCEL I.D. # 70 2 A ROW ONLY 6221 SF
LL-08-086-A108 PARCEL I.D. # 69 A 83 2023 LF
LL-08-086-A110 PARCEL I.D. # 69 11 2 666 LF
LL-08-086-A087 PARCEL I.D. # 70 A 47 1517 LF
LL-08-192 PARCEL I.D. # 69 A 103 3760 LF



PIPE SPECIFICATION
9216+00
9218+00
9220+00
9222+00
9224+00
9226+00
9228+00
9230+00
9232+00
9234+00
9236+00
9238+00
9240+00
9242+00
9244+00
9246+00
9248+00
9250+00
9252+00
9254+00
9256+00
9258+00
9260+00
9262+00
9264+00
9266+00
9268+00
9270+00
9272+00

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	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	COMPOSITE FILTER SOCK
		USFS STREAM CROSSING WITH ENHANCED CONTROLS	SEDIMENT BARRIER IDENTIFICATION
		SLOPE DIRECTION	CULVERT IDENTIFICATION
		CONSTRUCTION ENTRANCE WITH DITCH	ORANGE SAFETY FENCE
		CULVERT WATERBAR	ROADSIDE DITCH
			SOIL TYPE
			TYPICAL BIG SLOPE CATEGORY SLOPE INCLINATION

NOTES:

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REVISIONS	
NO.	DESCRIPTION

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

ERM

42" AP-1 PIPELINE
CONSTRUCTION ALIGNMENT STA 9216+00 TO 9272+00
 NELSON COUNTY, VIRGINIA

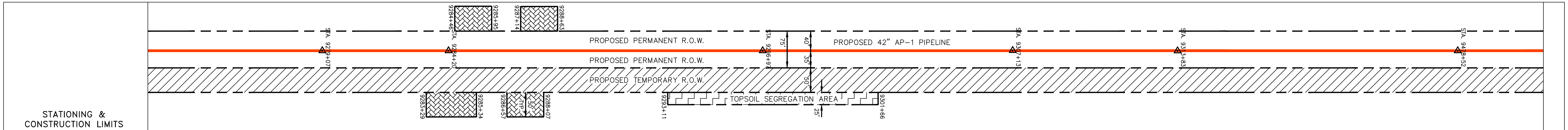
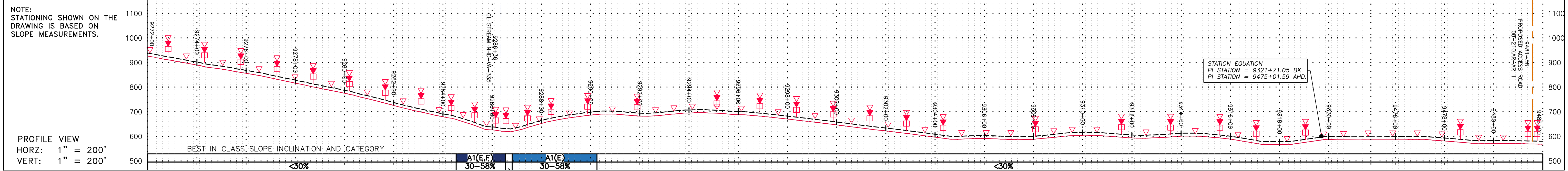
ATLANTIC COAST PIPELINE, LLC
 C/O DOMINION TRANSMISSION, INC.
 925 WHITE OAKS BLVD., BRIDGEPORT, WV 26330

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

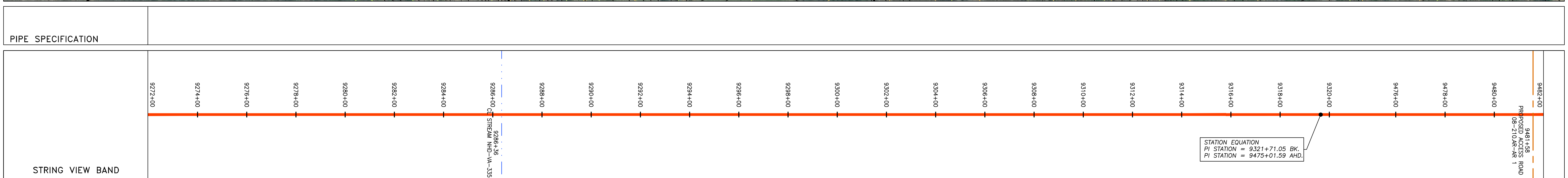
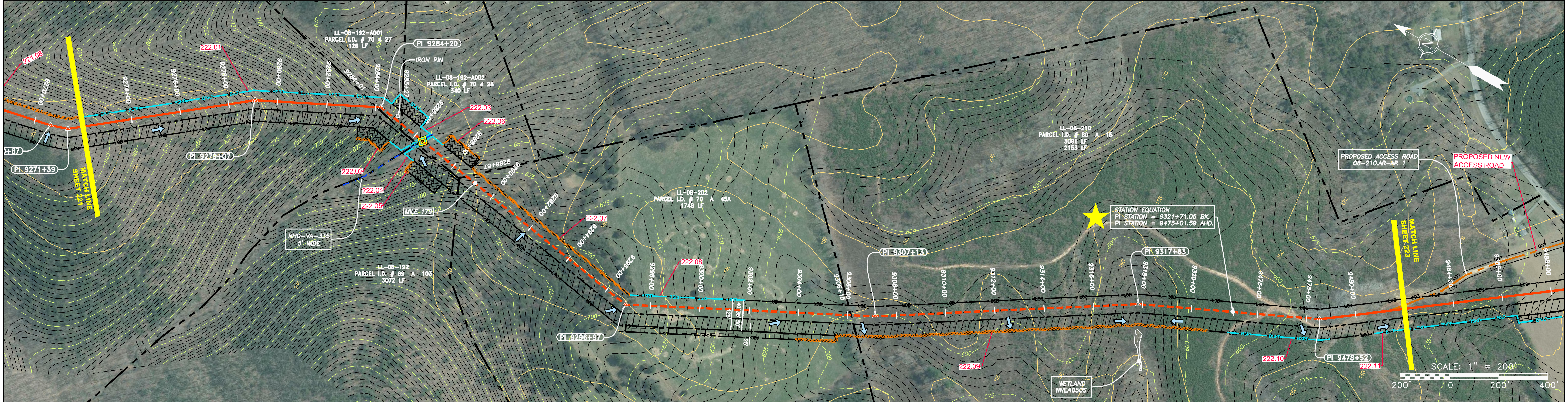
SOUTHPOINTE OFFICE
 6000 TOWN CENTER BLVD.
 CANONSBURG, PA 15317
 724-873-3545

PROJECT NO./DASH NO.	140468
TASK NO. SUB TASK NO.	005 00
GROUP ID DRAWING NO.	D E221
221 OF 344	

GAI CAD FILE NO. \NTG-FS1\THRASHER\050-5159 - GIA, INC. - GAI - THRASHER - SERP - MAPPING\SURVEY\DRAWING\SEC 4 BACKUP\SEC 4 SHEETS - 217-222 (11-16) REROUTE 4-25-16.DWG



STATIONING & CONSTRUCTION LIMITS	PROPERTY OWNERSHIP
9253+29	LL-08-192 PARCEL I.D. # 69 A 103 3072 LF
9284+01	LL-08-192-A001 PARCEL I.D. # 70 A 27 126 LF
9285+27	LL-08-192-A002 PARCEL I.D. # 70 A 28 340 LF
9286+11	LL-08-202 PARCEL I.D. # 70 A 45A 1748 LF
9300+15	LL-08-210 PARCEL I.D. # 80 A 15 3091 LF
9482+29	



LEGEND	
— X — X —	PROPERTY LINE
— E —	STORM SEWER
— W —	UNDERGROUND ELECTRIC
— G — G —	EXISTING GAS PIPELINE
— OH —	SANITARY SEWER
—	EDGE OF GRAVEL
—	PROPOSED PERMANENT EASEMENT
—	PROPOSED GAS PIPELINE (NO GROUND SURVEY)
—	FENCE
—	WATER LINE
—	SANITARY SEWER
—	OVERHEAD UTILITY LINES
—	PROPOSED PERMANENT EASEMENT
—	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
—	USFWS STREAM CROSSING WITH ENHANCED CONTROLS
—	SEEP
—	SLOPE DIRECTION
—	CONSTRUCTION ENTRANCE WITH DITCH
—	CULVERT DESIGN COMPLETED BY ERM (SEE NOTE 12)
—	CULVERT WATERBAR
—	LOD
—	BSRF
—	111.03
—	C 111.001
—	ORANGE SAFETY FENCE
—	ROADSIDE DITCH
—	SOIL TYPE
—	TYPICAL BIG SLOPE CATEGORY SLOPE INCLINATION

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GAI CAD FILE NO. \NTG-FS1\THRASHER\050-5159 - GIA, INC. - GAI - THRASHER - SERP - MAPPING\SURVEY\DRAWING\SEC 4\BACKUP\SEC 4 SHEETS - 217-222 (11-16) REROUTE 4-25-16.DWG

REVISIONS		DESCRIPTION
NO.	DATE	DWN.

Professional Engineer
Daniel R. Goldstein
 Lic. No. 047436

ERM

42" AP-1 PIPELINE
CONSTRUCTION ALIGNMENT STA 9272+00 TO 9482+00
 NELSON COUNTY, VIRGINIA

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

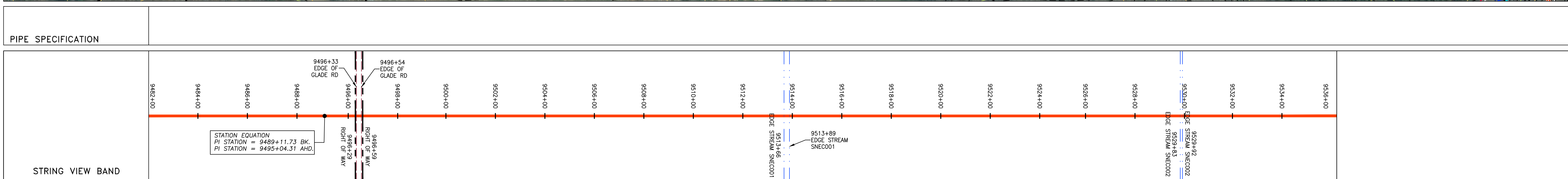
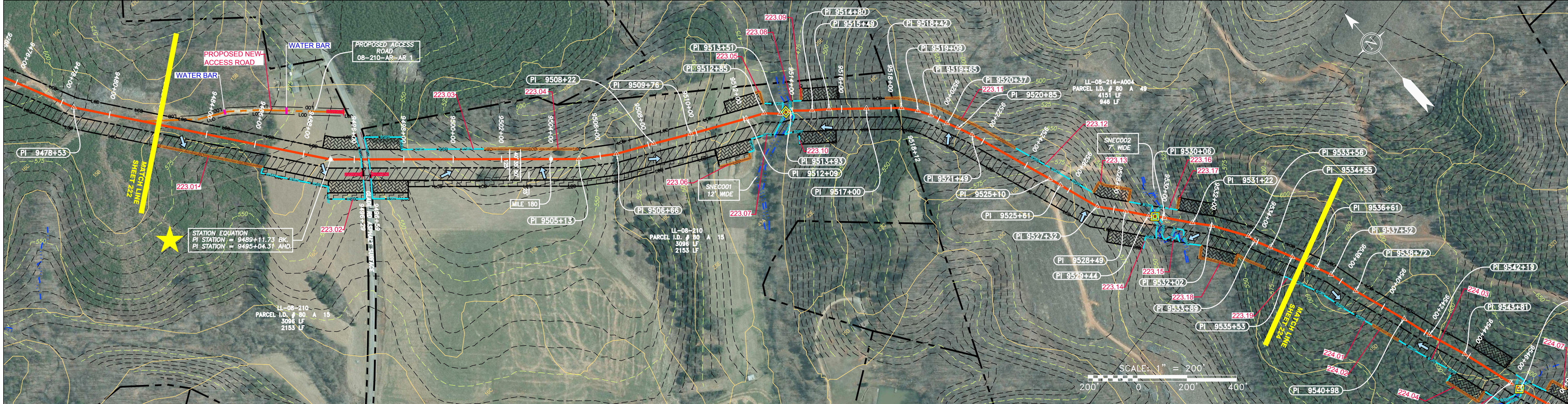
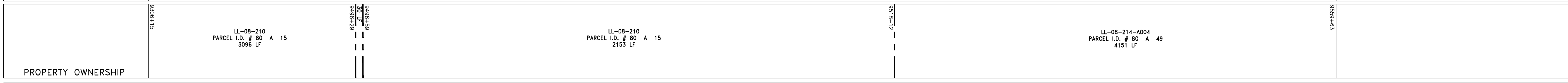
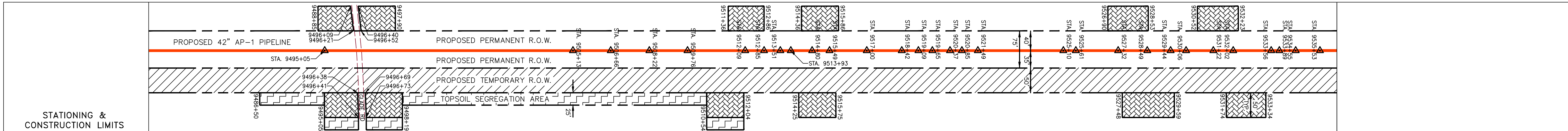
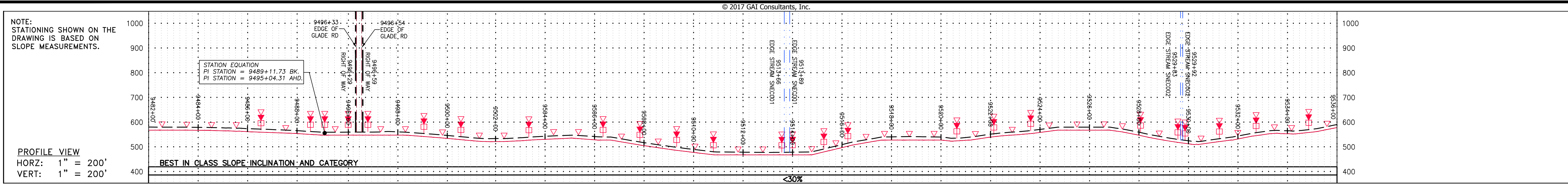
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DATE:	6/20/17
DRAWN:	GPT
CHECKED:	DLH
APPROVED:	NET

gai consultants

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

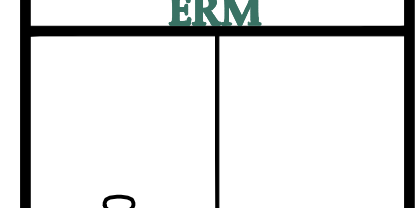
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TASK NO. SUB TASK NO.	005 00
GROUP ID DRAWING NO.	D E222
222 OF 344	

GAI CAD FILE NO. \VTG-FS1\THRASHER_050-5159 - GIA, INC. - GAI - THRASHER - SERP - MAPPING SURVEY DRAWING SEC 4, SEC. 4, SHEETS - 223-227 (17-21).DWG



LEGEND --- PROPERTY LINE --- FENCE --- STREAM --- G --- EXISTING GAS PIPELINE --- OH --- OVERHEAD UTILITY LINES --- ACCESS ROAD --- PROPOSED GAS PIPELINE		--- STORM SEWER --- UNDERGROUND ELECTRIC --- W --- 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 [Circle] UTILITY POLE [Triangle] PERMANENT WATERBAR/SLOPE BREAKER [Square] TEMPORARY WATERBAR/SLOPE BREAKER [Diamond] TRENCH BREAKER/PLUG [Star] STREAM CROSSING [Circle] USFS CROSSING WITH ENHANCED CONTROLS [Circle] SEEP [Arrow] SLOPE DIRECTION [Circle] CONSTRUCTION ENTRANCE WITH DITCH [Circle] CULVERT AS NEEDED [Circle] CULVERT WATERBAR		--- LOD --- BSRF --- 111.03 --- C 111.01 --- [Symbol] SOIL TYPE --- [Symbol] 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 SLOPE 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.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



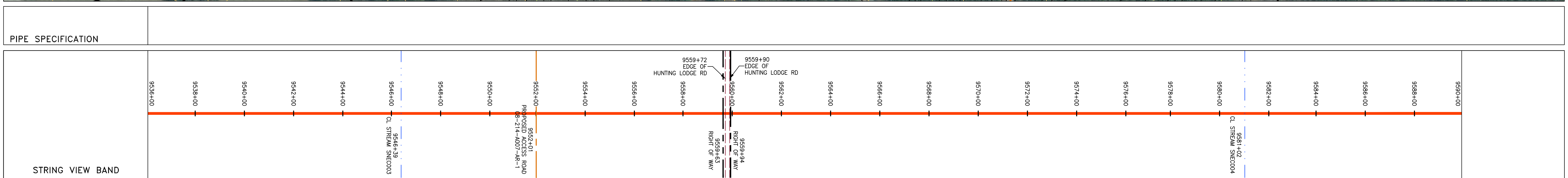
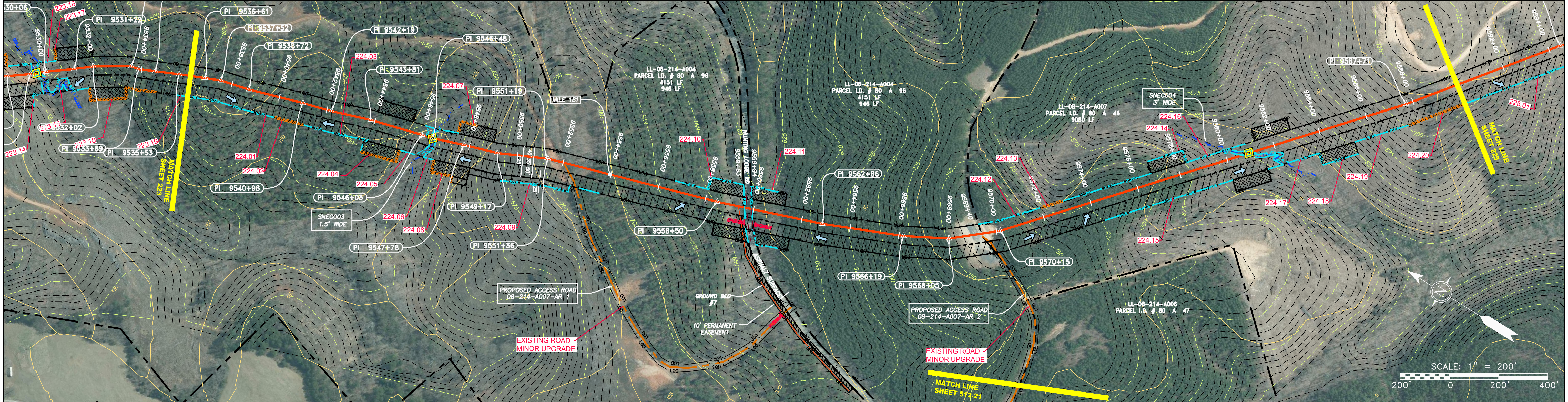
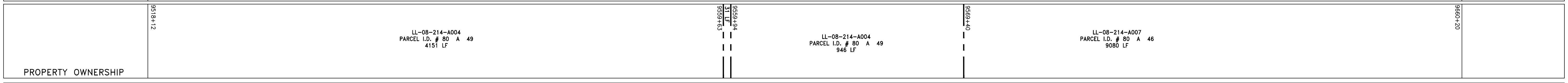
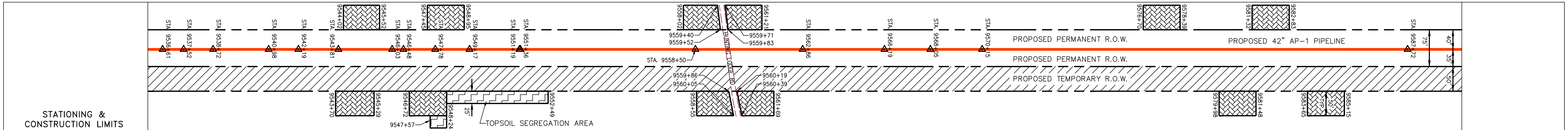
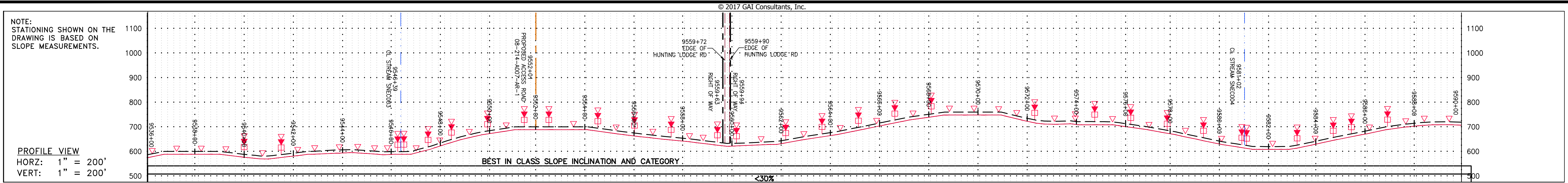
42" AP-1 PIPELINE
 CONSTRUCTION ALIGNMENT STA 9482+00 TO 9536+00
 NELSON COUNTY, VIRGINIA
 ATLANTIC COAST PIPELINE, LLC
 C/O DOMINION TRANSMISSION, INC.
 925 WHITE OAKS BLVD., BRIDGEPORT, WV 26330

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



PROJECT NO./DASH NO.	140468
TASK NO. SUB TASK NO.	005 00
GROUP ID DRAWING NO.	D E223
223 OF 344	

GAI CAD FILE NO. \ITG-FS1\THRASHER\050-5159 - GIA, INC. - GAI - THRASHER - MAPPING SURVEY DRAWING SEC 4, SEC 4 SHEETS - 223-227 (17-21).DWG



LEGEND 				NOTES: 1. COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY - UTM WITH NAD83 DATUM, ZONE 17, US SURVEY FOOT, CENTRAL MERIDIAN 81° W, 11-07-2014. 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.A.5 FEDERAL ENERGY REGULATORY COMMISSION (FERC) UPLAND EROSION CONTROL, REVEGETATION, AND MAINTENANCE PLAN, SECTION V.A.5. IN ADDITION, WETLAND AND WATERBODY CROSSINGS WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS IN ACCORDANCE WITH NATIONWIDE PERMIT 12 (NWP) ISSUED BY THE U.S. CORPS OF ENGINEERS.	
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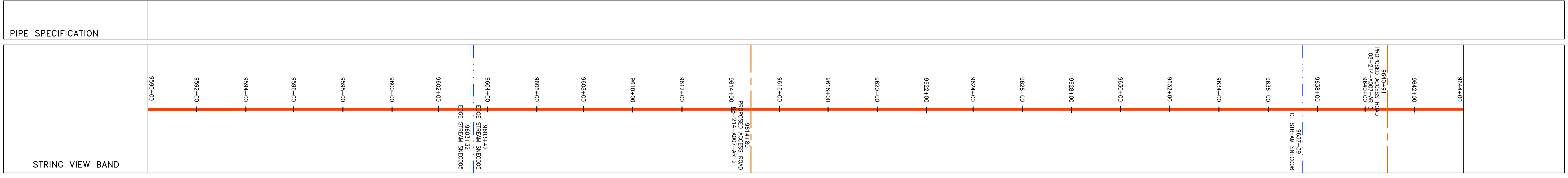
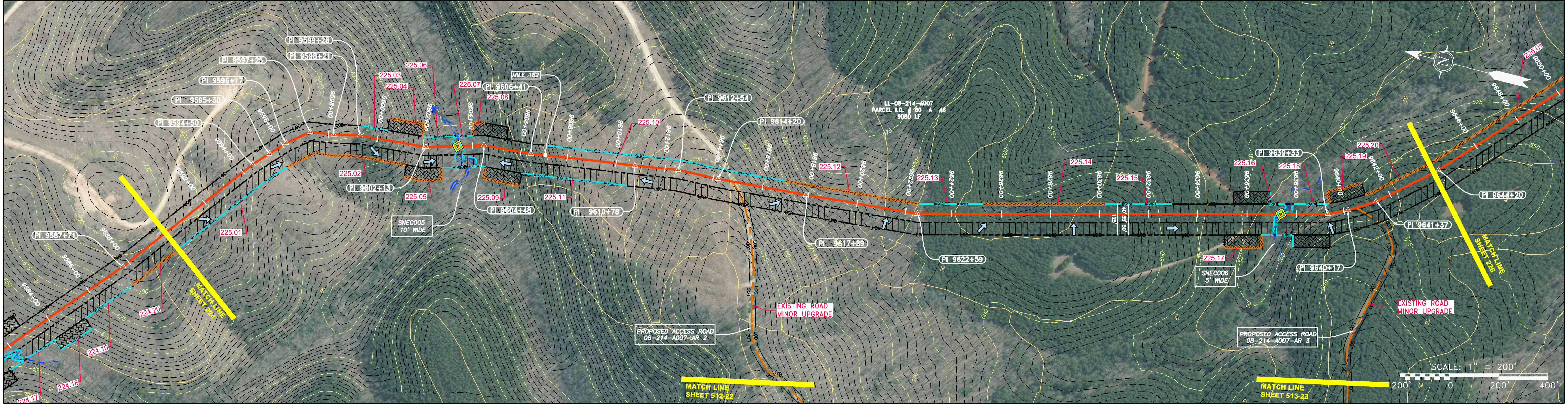
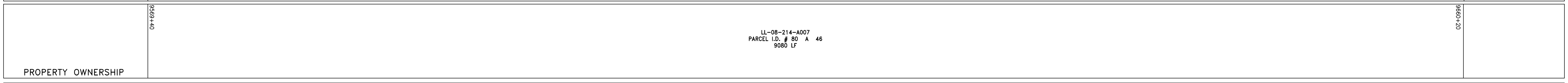
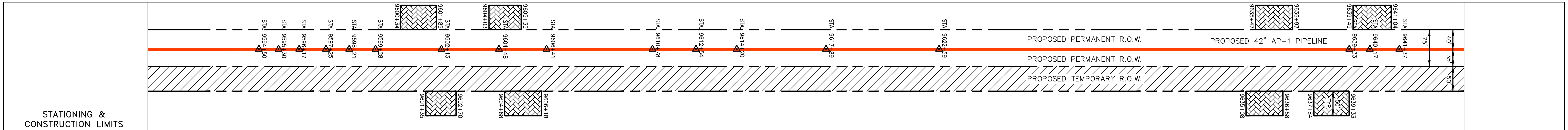
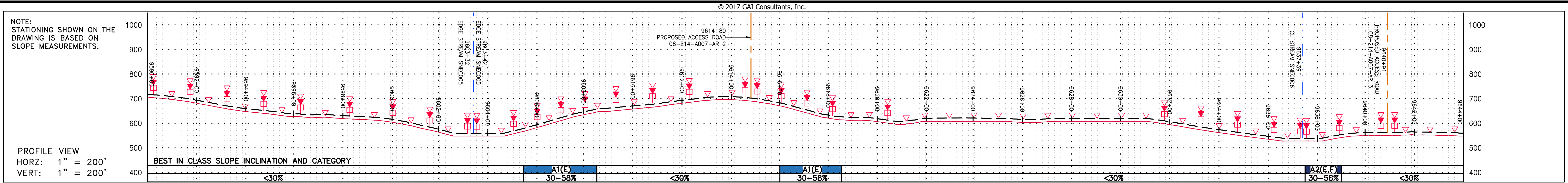
NO.	DATE	APPD.	CHKD.	DESCRIPTION

DANIEL R. GOLDSTEIN
 PROFESSIONAL ENGINEER

42" AP-1 PIPELINE
CONSTRUCTION ALIGNMENT STA 9536+00 TO 9590+00
 NELSON 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
 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 E224
224 OF 344	

GAI CAD FILE NO. \ITG-FS1\THRASHER\050-5159 - GIA, INC. - GAI - THRASHER - SERP - MAPPING\SURVEY\DRAWING\SEC 4\SEC 4 SHEETS - 223-227 (17-21).DWG



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		EDGE OF GRAVEL		SLOPE DIRECTION
	OVERHEAD UTILITY LINES		PROPOSED PERMANENT EASEMENT		CONSTRUCTION ENTRANCE WITH DITCH		CULVERT AS NEEDED
	ACCESS ROAD		PROPOSED GAS PIPELINE		CULVERT WATERBAR		LOD
	PROPOSED GAS PIPELINE (NO GROUND SURVEY)				BELTED SILT RETENTION FENCE (BSRF)		COMPOST FILTER SOCK

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

NOTES:

- COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY - UTM WITH NAD83 DATUM, ZONE 17, US SURVEY FOOT, CENTRAL MERIDIAN 81° W. CONTOURS AND TOPOGRAPHIC FEATURES WERE DERIVED FROM LIDAR DATA AND GPS SUB-METER GROUND SURVEY PERFORMED BY GAI CONSULTANTS, INC FROM 11-03-2014 THRU 11-07-2014.
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DESCRIPTION	REVISIONS
NO.	DATE
DWN.	CHKD.
APPD.	

Professional Engineer
 Daniel R. Goldstein
 Lic. No. 047436

ERM

42" AP-1 PIPELINE
 CONSTRUCTION ALIGNMENT STA 9590+00 TO 9644+00
 NELSON COUNTY, VIRGINIA

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

SCALE: AS SHOWN
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gai consultants

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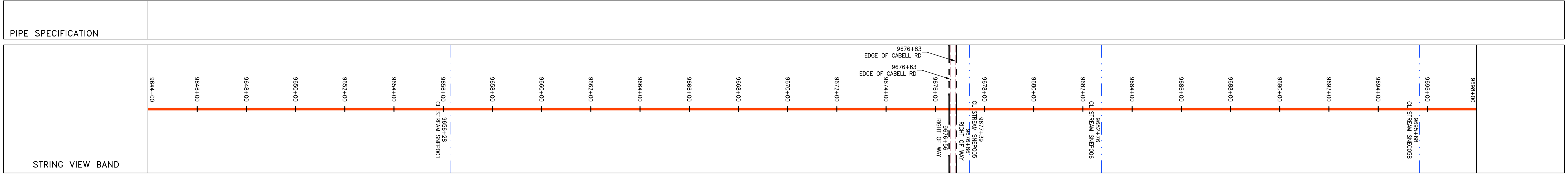
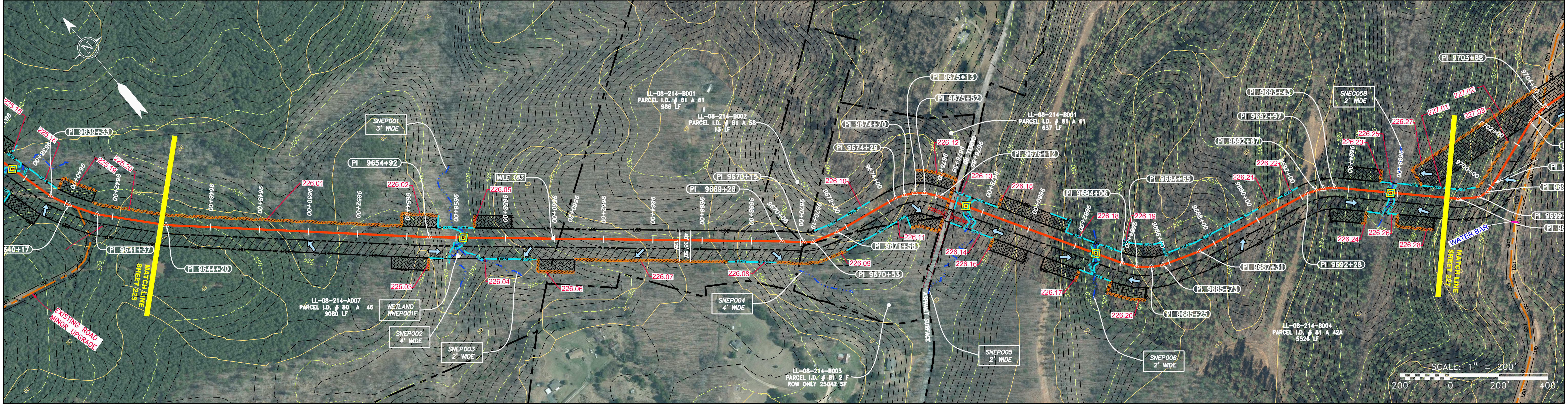
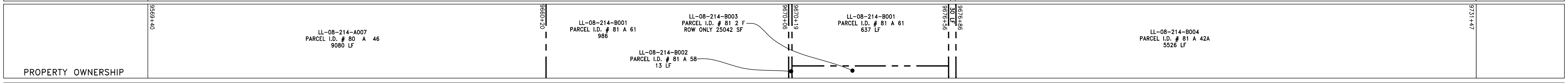
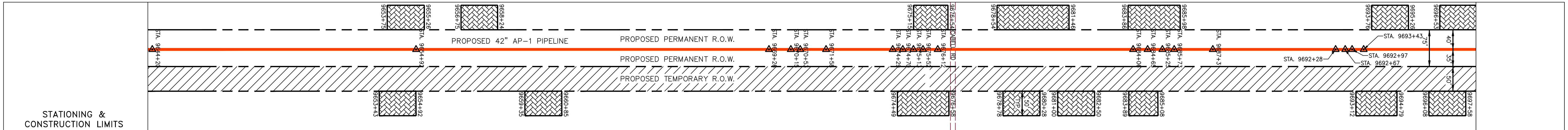
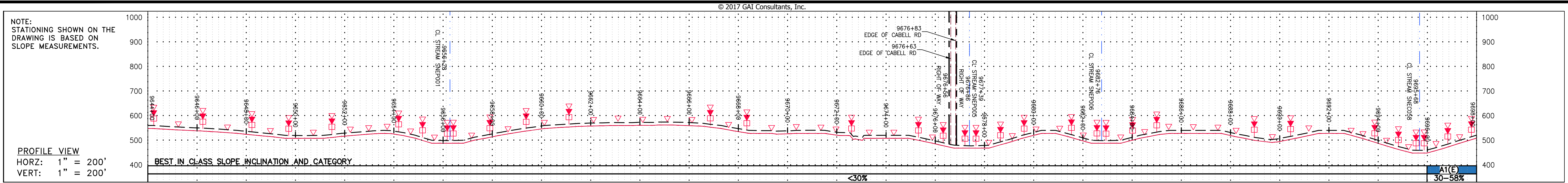
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TASK NO. SUB TASK NO.
005 00

GROUP ID DRAWING NO.
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225 OF 344

GAI CAD FILE NO. \ITG-FS1\THRASHER\050-5159 - GIA, INC. - GAI - THRASHER - SERP - MAPPING\SURVEY DRAWING\SEC 4\SEC 4 SHEETS - 223-227 (17-21).DWG



LEGEND --- 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 [Diamond] STREAM CROSSING [Diamond] W/ ENHANCED CONTROLS [Diamond] SEE P [Arrow] SLOPE DIRECTION [Arrow] CONSTRUCTION ENTRANCE WITH DITCH [Arrow] CULVERT AS NEEDED [Arrow] CULVERT WATERBAR		--- LOD --- BSRF --- 111.03 --- C 111.01 --- X --- 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 GIA 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). GIA 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 SLOPE 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.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.	
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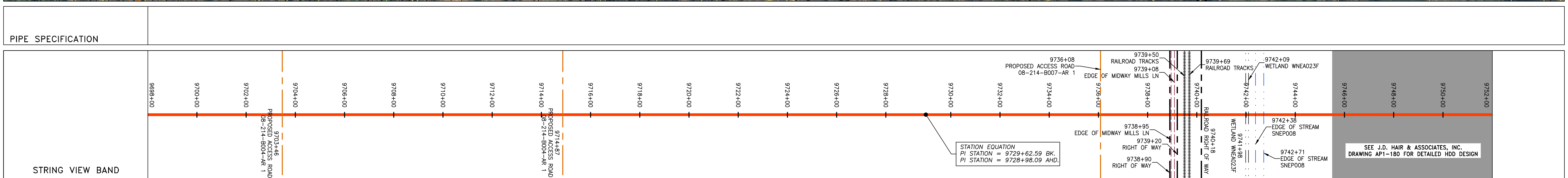
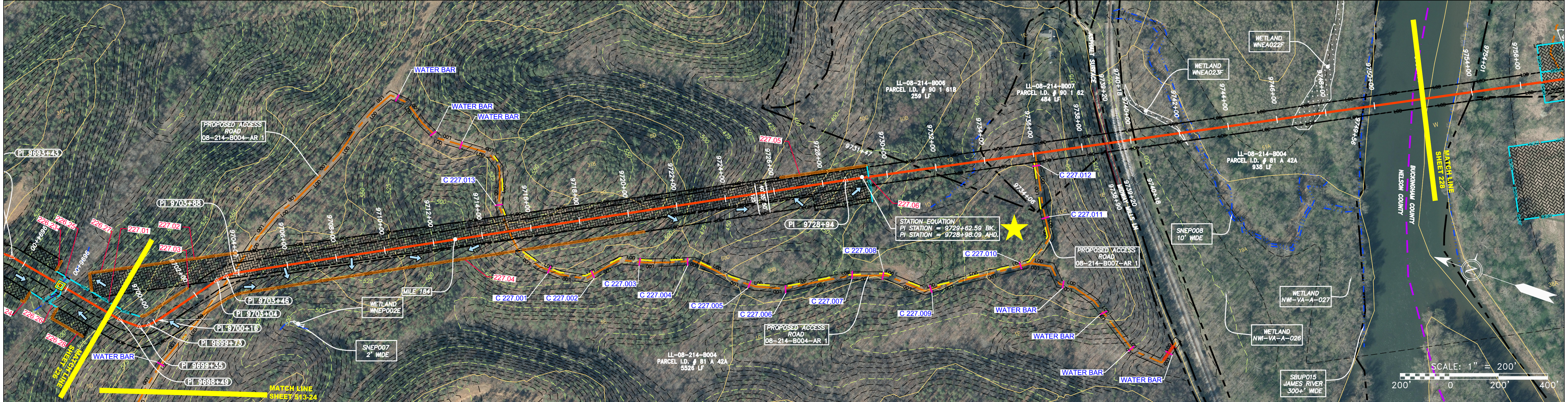
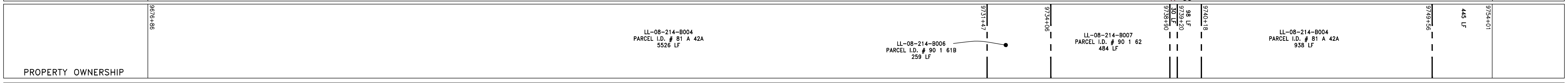
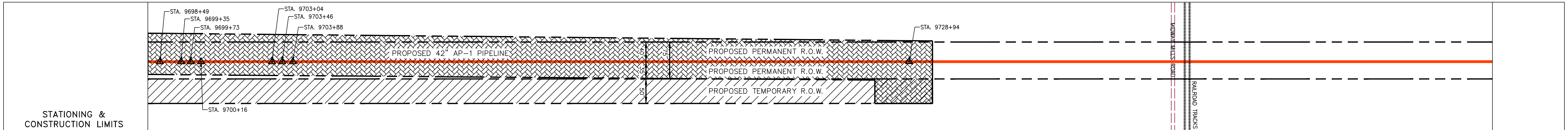
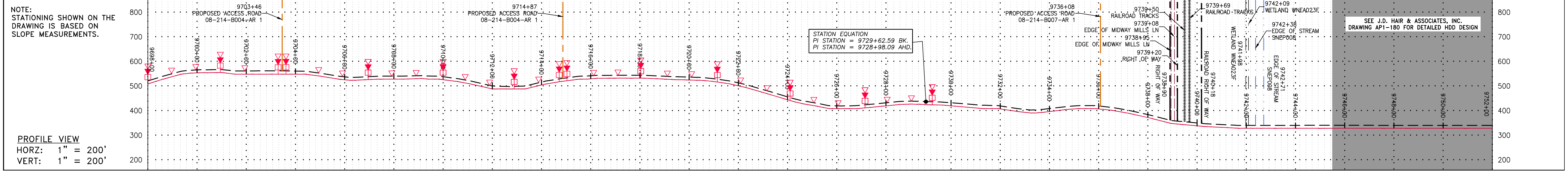
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 DATE: 6/20/17
 DRAWN: GPT
 CHECKED: DLH
 APPROVED: NET

42" AP-1 PIPELINE
 CONSTRUCTION ALIGNMENT STA 9644+00 TO 9698+00
 NELSON COUNTY, VIRGINIA
 ATLANTIC COAST PIPELINE, LLC
 C/O DOMINION TRANSMISSION, INC.
 925 WHITE OAKS BLVD., BRIDGEPORT, WV 26330

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

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



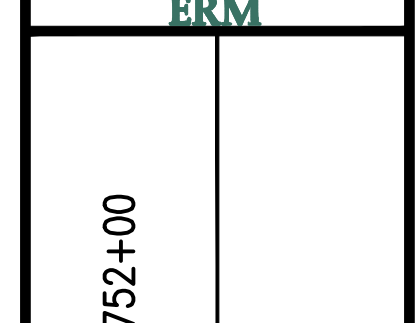
LEGEND

— X — X —	PROPERTY LINE	— E —	STORM SEWER	[Hatched Box]	EXTRA WORK SPACE	— LOD —	LIMIT OF DISTURBANCE
— W —	FENCE	— W —	UNDERGROUND ELECTRIC	[Dotted Box]	TOPSOIL SEGREGATION AREA	— BSRF —	BELTED SILT RETENTION FENCE (BSRF)
— G —	STREAM	— SAN —	WATER LINE	[Cross-hatched Box]	AREA OF NO DISTURBANCE	[Orange Box]	COMPOST FILTER SOCK
— OH —	EXISTING GAS PIPELINE	—	SANITARY SEWER	[Diagonal Lines]	PROPOSED TEMPORARY R.O.W.	[Green Box]	SEDIMENT BARRIER IDENTIFICATION
—	OVERHEAD UTILITY LINES	—	EDGE OF GRAVEL	[Green Box]	WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)	[Blue Box]	CULVERT IDENTIFICATION
—	ACCESS ROAD	—	PROPOSED PERMANENT EASEMENT	[Green Box]	UTILITY POLE	[Yellow Box]	ORANGE SAFETY FENCE
—	PROPOSED GAS PIPELINE	—	PROPOSED GAS PIPELINE (NO GROUND SURVEY)	[Green Box]	NOTE: THE PE SEAL AND SIGNATURE APPLIES ONLY TO THE E&S CONTROL DESIGN COMPLETED BY ERM (SEE NOTE 12).	[Blue Box]	ROADSIDE DITCH
						[Green Box]	SOIL TYPE
						[Blue Box]	TYPICAL BIG 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, 11 07 2014.
- 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.
- 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 SEDIMENT 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 MANAGEMENT PRACTICES (BMP) SLOPE CATEGORY INFORMATION CAN BE FOUND IN THE APPENDIX OF THE STORMWATER POLLUTION PREVENTION PLAN.
- EROSION CONTROL MATTEPING 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.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	BY	CHKD.	APPD.	DESCRIPTION



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PROJECT NO./DASH NO.	140468
TASK NO. SUB TASK NO.	005 00
GROUP ID DRAWING NO.	D E227
227 OF 344	