

LEGEND - - - - - PROPERTY LINE X - X - FENCE - - - - - STREAM G - G - EXISTING GAS PIPELINE OH - OVERHEAD UTILITY LINES - - - - - ACCESS ROAD - - - - - PROPOSED GAS PIPELINE		- - - - - UNDERGROUND ELECTRIC W - WATER LINE SAN - SANITARY SEWER - - - - - EDGE OF GRAVEL - - - - - PROPOSED PERMANENT EASEMENT - - - - - PROPOSED GAS PIPELINE (NO GROUND SURVEY)		[Hatched Box] EXTRA WORK SPACE [Dotted Box] AREA OF NO DISTURBANCE [Green Box] WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)		[Hatched Box] TOPSOIL SEGREGATION AREA [Hatched Box] PROPOSED TEMPORARY R.O.W. [Circle with X] UTILITY POLE		[Triangle with X] PERMANENT WATERBAR/SLOPE BREAKER [Triangle with X] TEMPORARY WATERBAR/SLOPE BREAKER [Triangle] TRENCH BREAKER/PLUG [Diamond] STREAM CROSSING [Diamond with X] USFWS STREAM CROSSING WITH ENHANCED CONTROLS [Triangle with X] CONSTRUCTION ENTRANCE WITH DITCH [Triangle] CULVERT/WATERBAR		[Line] LOD - LIMIT OF DISTURBANCE [Line] BSRF - BELTED SILT RETENTION FENCE (BSRF) [Line] COIR LOG [Line] COMPOST FILTER SOCK [Line] ORANGE SAFETY FENCE [Line] ROADSIDE DITCH [Circle] SOIL TYPE		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. 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.	
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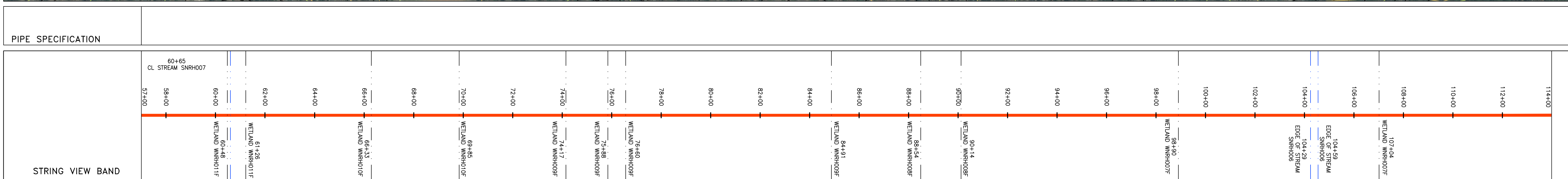
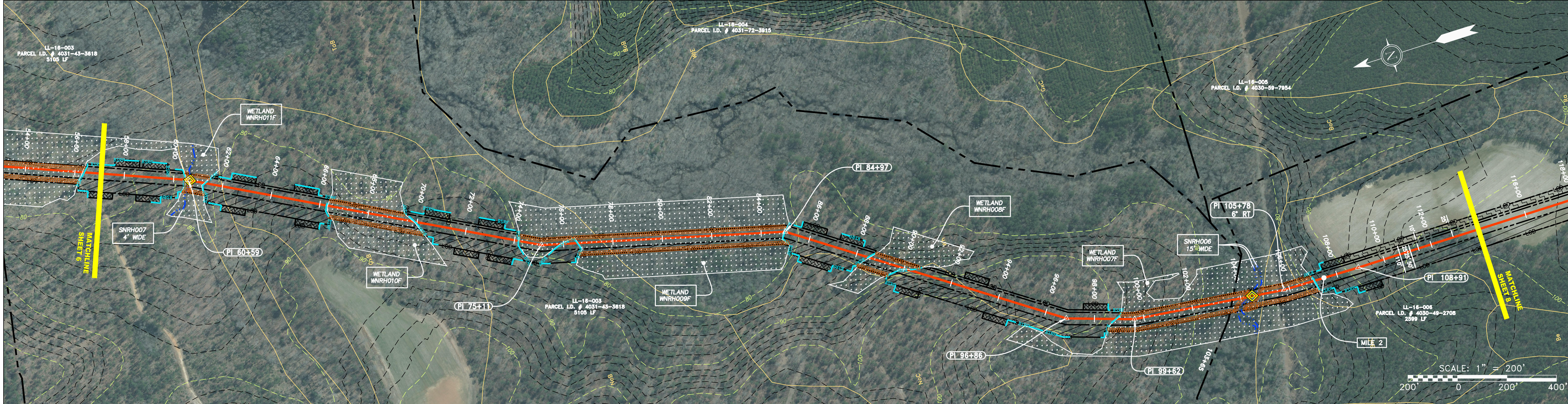
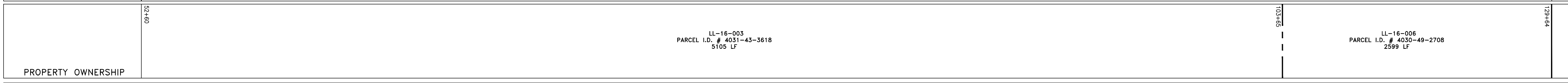
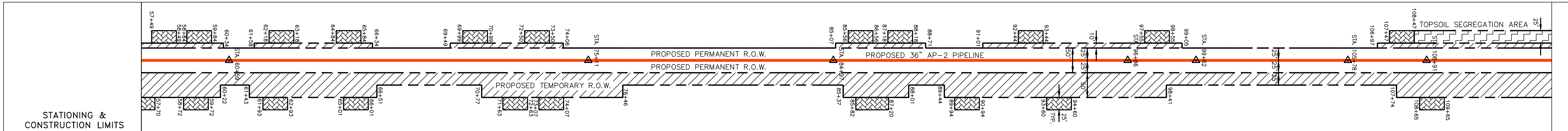
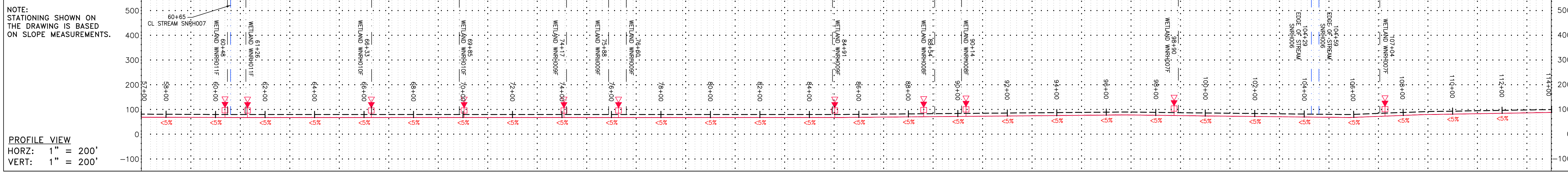
REVISIONS	
NO.	DATE

36" AP-2 PIPELINE
CONSTRUCTION ALIGNMENT STA 0+00 TO 57+00
 NORTHAMPTON COUNTY, NORTH CAROLINA
ATLANTIC COAST PIPELINE, LLC
 C/O DOMINION TRANSMISSION, INC.
 925 WHITE OAKS BLVD., BRIDGEPORT, WV 26330

SCALE:	AS SHOWN
DATE:	06/09/17
DRAWN:	GPT
CHECKED:	DLH
APPROVED:	NET

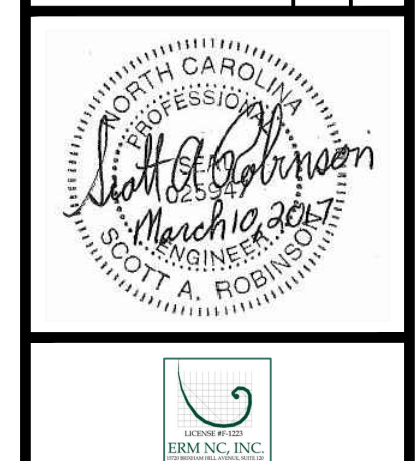
gai consultants - NC, inc.
 4198 COX ROAD
 SUITE 114
 GLEN ALLEN, VA 23060
 804-270-9357
 N.C. COL. #F-0269

PROJECT NO./DASH NO.	C140468	
TASK NO.	005	00
GROUP ID	D	E006
6 OF 189		



LEGEND - - - - - PROPERTY LINE X - X - FENCE - - - - - STREAM G - G - EXISTING GAS PIPELINE OH - OH - OVERHEAD UTILITY LINES --- --- ACCESS ROAD --- --- PROPOSED GAS PIPELINE --- --- PROPOSED GAS PIPELINE (NO GROUND SURVEY)		- - - - - UNDERGROUND ELECTRIC W - W - WATER LINE SAN - 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 (COLOR SHOWN TO PROVIDE CLARITY ONLY) [Symbol] UTILITY POLE [Symbol] TOPSOIL SEGREGATION AREA [Symbol] PROPOSED TEMPORARY R.O.W. [Symbol] PERMANENT WATERBAR/SLOPE BREAKER [Symbol] TEMPORARY WATERBAR/SLOPE BREAKER [Symbol] TRENCH BREAKER/PLUG [Symbol] STREAM CROSSING [Symbol] USFWS STREAM CROSSING WITH ENHANCED CONTROLS [Symbol] CONSTRUCTION ENTRANCE WITH DITCH [Symbol] CULVERT/ WATERBAR		--- LOD --- LIMIT OF DISTURBANCE --- BSRF --- BELTED SILT RETENTION FENCE (BSRF) --- COIR LOG --- COIR LOG --- COMPOST FILTER SOCK --- COMPOST FILTER SOCK --- ORANGE SAFETY FENCE --- ORANGE SAFETY FENCE --- ROADSIDE DITCH --- ROADSIDE DITCH (CuB) SOIL TYPE		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. ACCESS ROADS HAVE BEEN GROUPED INTO FOUR CATEGORIES - 1) EXISTING ROADS NO IMPROVEMENTS, 2) EXISTING ROADS MINOR IMPROVEMENTS, 3) EXISTING ROADS MAJOR IMPROVEMENTS AND 4) NEW ROADS. APPROPRIATE EROSION AND SEDIMENT CONTROLS WILL BE PROVIDED FOR ROADS IN CATEGORIES 2, 3 AND 4. ROADS IN CATEGORIES 1 AND 2 HAVE ADEQUATE EXISTING DRAINAGE FEATURES WILL BE PROVIDED FOR ROADS IN CATEGORIES 3 AND 4. 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.	
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NO.	DATE	DWN.	CHKD.	APPVD.	DESCRIPTION



36" AP-2 PIPELINE
CONSTRUCTION ALIGNMENT STA 57+00 TO 114+00
 NORTHAMPTON COUNTY, NORTH CAROLINA
ATLANTIC COAST PIPELINE, LLC
 C/O DOMINION TRANSMISSION, INC.
 925 WHITE OAKS BLVD., BRIDGEPORT, WV 26330

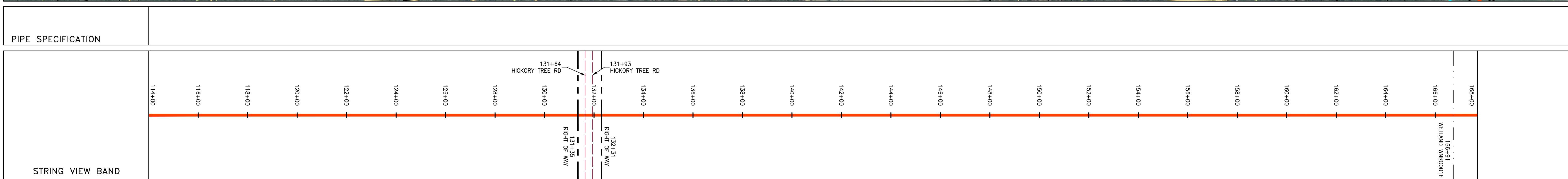
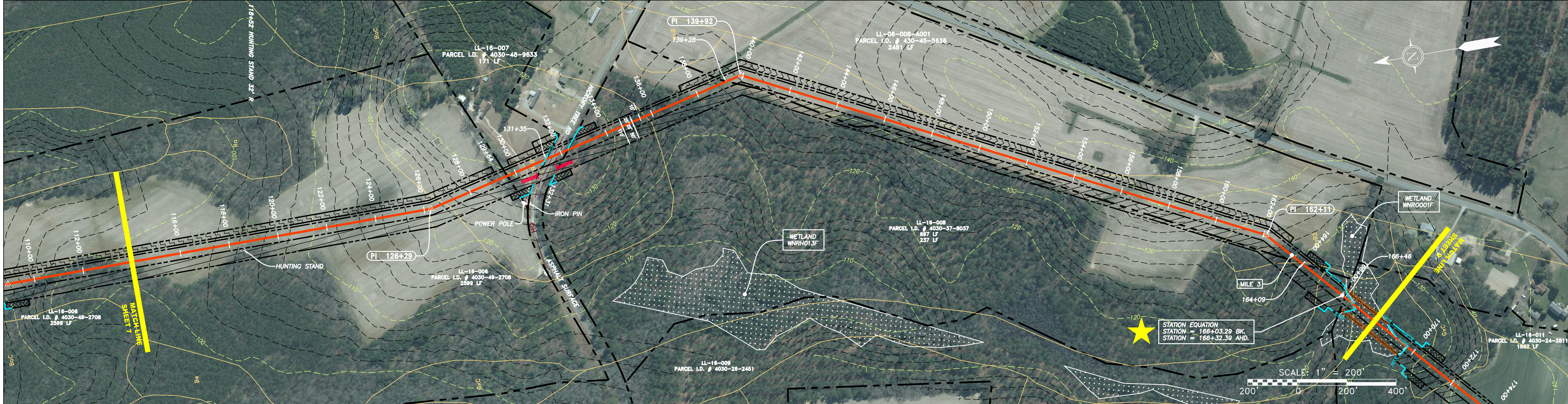
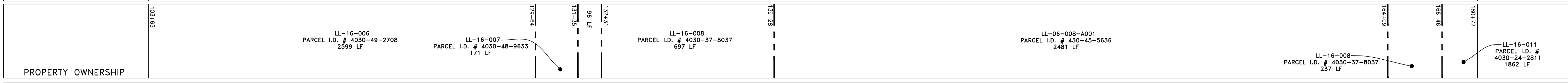
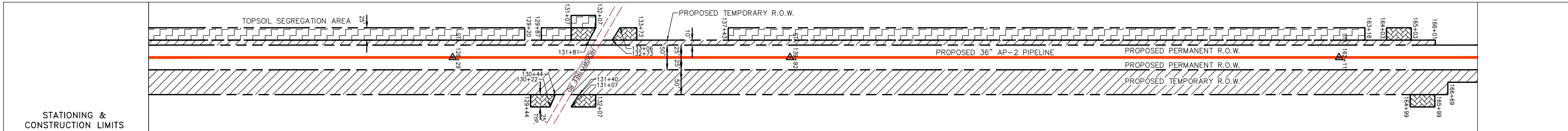
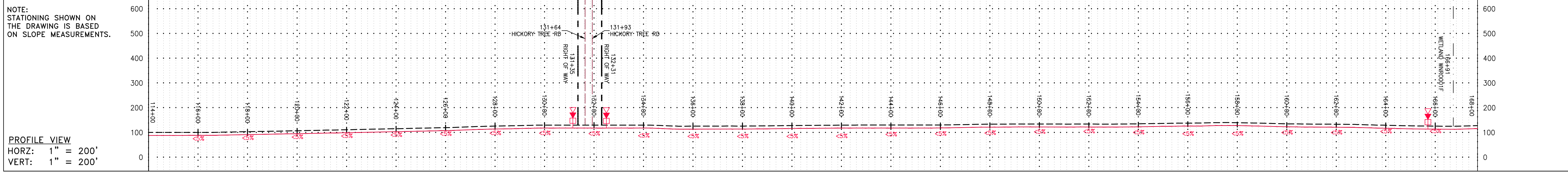
SCALE:	AS SHOWN
DATE:	06/09/17
DRAWN:	GPT
CHECKED:	DLH
APPROVED:	NET

gai consultants - NC, inc.
 4198 COX ROAD
 SUITE 114
 GLEN ALLEN, VA 23060
 804-270-9357
 N.C. COL. #10-0269

PROJECT NO./DASH NO.	C140468	
TASK NO.	005	00
GROUP ID	D	E007
7 OF 189		

GAI CAD FILE NO. \\\TTC-FS1\THRASHER\050-5159 - GAI, INC. - SERP - MAPPING\SURVEY\DRAWING\RESTORED SHEETS 1-13-17\SEC 9\FULL SET\SEC 9 SHEETS- 8 REV 12.DWG

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LEGEND - - - - - PROPERTY LINE X X FENCE --- STREAM G G EXISTING GAS PIPELINE OH OVERHEAD UTILITY LINES --- ACCESS ROAD --- PROPOSED GAS PIPELINE		- - - - - STORM SEWER E UNDERGROUND ELECTRIC W WATER LINE SAN 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 NOTE: THE PE SEAL AND SIGNATURE APPLIES ONLY TO THE E&S CONTROL DESIGN COMPLETED BY ERM (SEE NOTE 10).		PERMANENT WATERBAR/SLOPE BREAKER TEMPORARY WATERBAR/SLOPE BREAKER TRENCH BREAKER/PLUG STREAM CROSSING USFWS STREAM CROSSING WITH ENHANCED CONTROLS CONSTRUCTION ENTRANCE WITH DITCH CULVERT/ WATERBAR		--- LOD LIMIT OF DISTURBANCE BSRF BELTED SILT RETENTION FENCE (BSRF) COIR LOG COMPOST FILTER SOCK ORANGE SAFETY FENCE ROADSIDE DITCH SOIL TYPE		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. ACCESS ROADS HAVE BEEN GROUPED INTO FOUR CATEGORIES - 1) EXISTING ROADS NO IMPROVEMENTS, 2) EXISTING ROADS MINOR IMPROVEMENTS, 3) EXISTING ROADS MAJOR IMPROVEMENTS AND 4) NEW ROADS. APPROPRIATE EROSION AND SEDIMENT CONTROLS WILL BE PROVIDED FOR ROADS IN CATEGORIES 2, 3 AND 4. ROADS IN CATEGORIES 1 AND 2 HAVE ADEQUATE EXISTING DRAINAGE FEATURES WILL BE PROVIDED FOR ROADS IN CATEGORIES 3 AND 4. 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.	
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NO.	DATE	APPD.	CHKD.	DESCRIPTION

36" AP-2 PIPELINE
CONSTRUCTION ALIGNMENT STA 114+00 TO 168+00
 NORTHAMPTON COUNTY, NORTH CAROLINA
ATLANTIC COAST PIPELINE, LLC
 C/O DOMINION TRANSMISSION, INC.
 925 WHITE OAKS BLVD., BRIDGEPORT, WV 26330

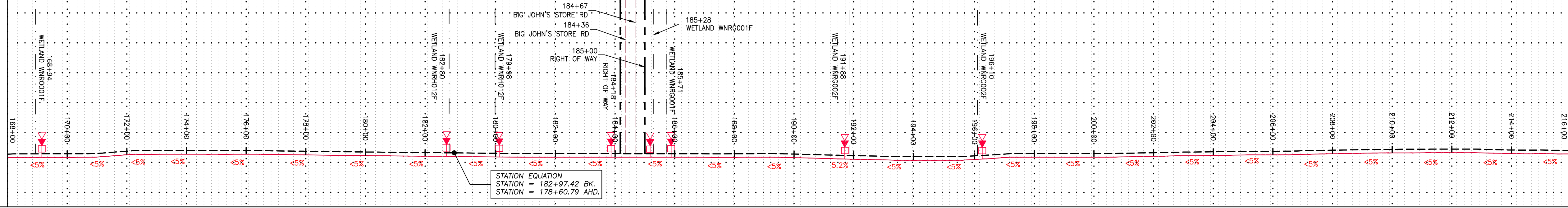
SCALE:	AS SHOWN
DATE:	06/09/17
DRAWN:	GPT
CHECKED:	DLH
APPROVED:	NET

gai consultants - NC, inc.
 4198 COX ROAD
 SUITE 114
 GLEN ALLEN, VA 23060
 804-270-9357
 N.C. COL #F-0269

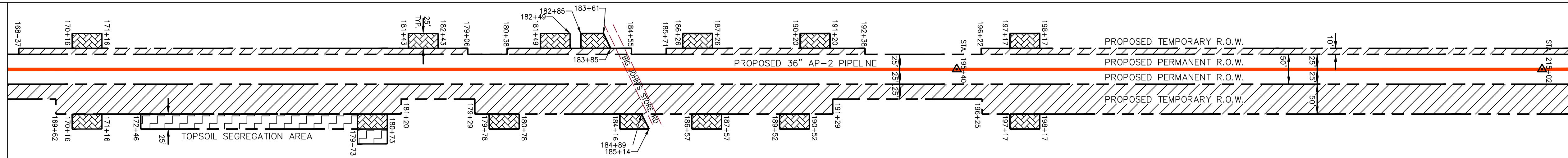
PROJECT NO./DASH NO.	C140468	
TASK NO.	005	00
GROUP ID	D	E008
8 OF 189		

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

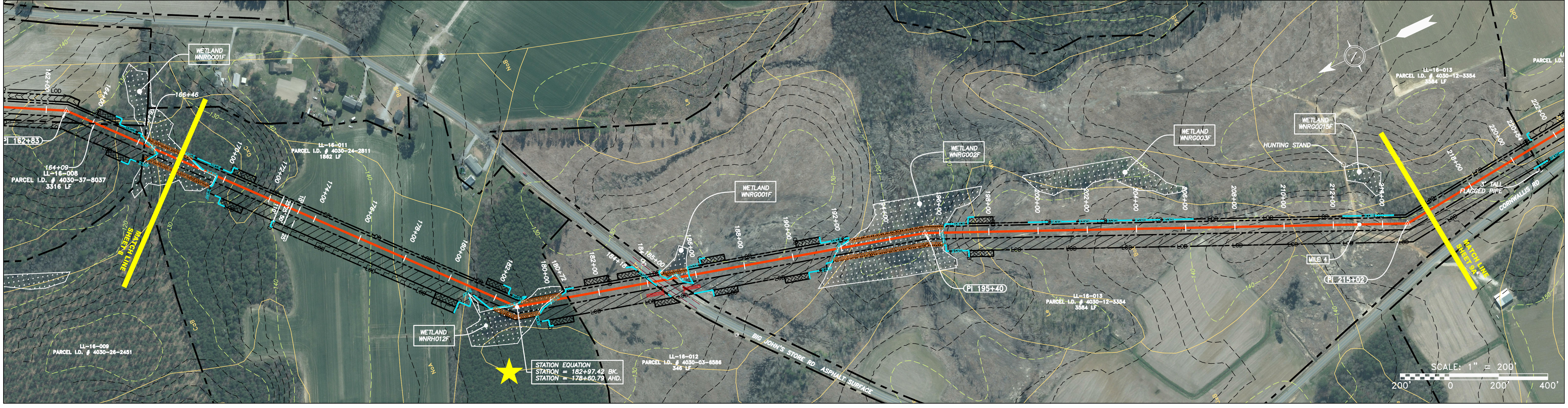
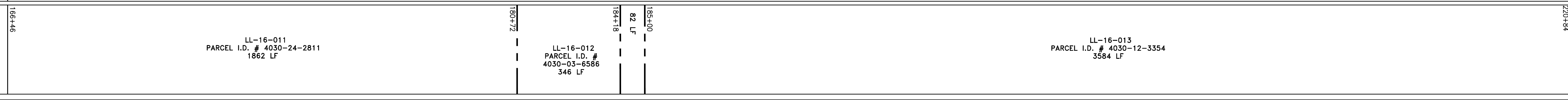
PROFILE VIEW
HORZ: 1" = 200'
VERT: 1" = 200'



STATIONING &
CONSTRUCTION LIMITS



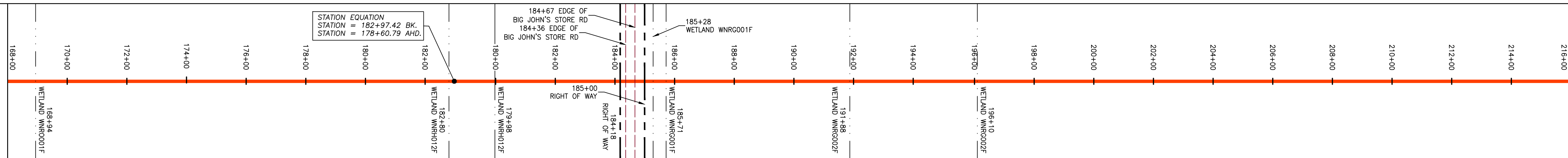
PROPERTY OWNERSHIP



PIPE SPECIFICATION

36" AP-2 PIPELINE

STRING VIEW BAND



LEGEND

<p>PROPERTY LINE</p> <p>FENCE</p> <p>STREAM</p> <p>EXISTING GAS PIPELINE</p> <p>OVERHEAD UTILITY LINES</p> <p>ACCESS ROAD</p> <p>PROPOSED GAS PIPELINE</p>	<p>UNDERGROUND ELECTRIC</p> <p>WATER LINE</p> <p>SANITARY SEWER</p> <p>EDGE OF GRAVEL</p> <p>PROPOSED PERMANENT EASEMENT</p> <p>PROPOSED GAS PIPELINE (NO GROUND SURVEY)</p>	<p>EXTRA WORK SPACE</p> <p>AREA OF NO DISTURBANCE</p> <p>WETLAND</p> <p>TOPSOIL SEGREGATION AREA</p> <p>PROPOSED TEMPORARY R.O.W.</p> <p>UTILITY POLE</p>	<p>PERMANENT WATERBAR/SLOPE BREAKER</p> <p>TEMPORARY WATERBAR/SLOPE BREAKER</p> <p>TRENCH BREAKER/PLUG</p> <p>STREAM CROSSING</p> <p>USFWS STREAM CROSSING WITH ENHANCED CONTROLS</p> <p>CONSTRUCTION ENTRANCE WITH DITCH</p> <p>CULVERT/WATERBAR</p>	<p>LOD</p> <p>BSRF</p> <p>COIR LOG</p> <p>COMPOST FILTER SOCK</p> <p>ORANGE SAFETY FENCE</p> <p>ROADSIDE DITCH</p> <p>SOIL TYPE</p>	<p>LIMIT OF DISTURBANCE</p> <p>BELTED SILT RETENTION FENCE (BSRF)</p> <p>COIR LOG</p> <p>COMPOST FILTER SOCK</p> <p>ORANGE SAFETY FENCE</p> <p>ROADSIDE DITCH</p> <p>SOIL TYPE</p>
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NOTE: THE PE SEAL AND SIGNATURE APPLIES ONLY TO THE E&S CONTROL DESIGN COMPLETED BY ERM (SEE NOTE 10).

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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NO.	DATE	BY	CHKD.	APPD.	DESCRIPTION

36" AP-2 PIPELINE
CONSTRUCTION ALIGNMENT STA 168+00 TO 216+00
NORTHAMPTON COUNTY, NORTH CAROLINA

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

SCALE:	AS SHOWN
DATE:	06/09/17
DRAWN:	GPT
CHECKED:	DLH
APPROVED:	NET

gai consultants - NC, inc.
4198 COX ROAD
SUITE 114
GLEN ALLEN, VA 23060
804-270-9357
N.C. COL. #F-0269

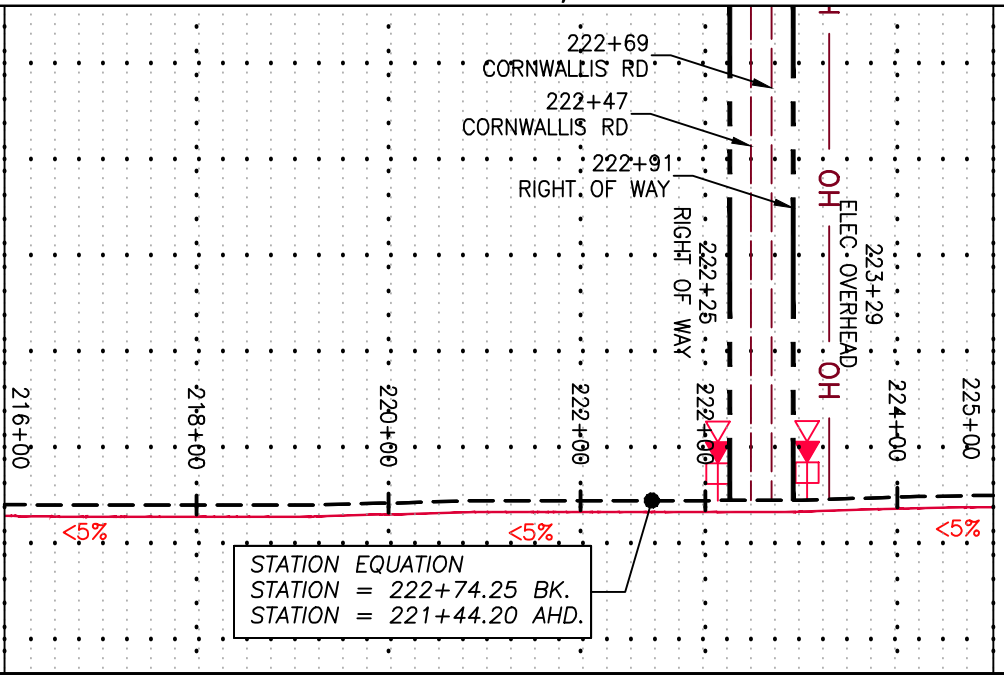
PROJECT NO./DASH NO.	C140468
TASK NO. SUB TASK NO.	005 00
GROUP ID DRAWING NO.	D E009
9 OF 189	

GAI CAD FILE NO. \ITG-FS\THRASHER\050-5159 - GAI, INC. - GAI - THRASHER - SERP - MAPPING\SURVEY\DRAWING\SEC 9\PLAN SHEETS\SEC 9 SHEETS- 6-9 (1-4) REROUTE.DWG

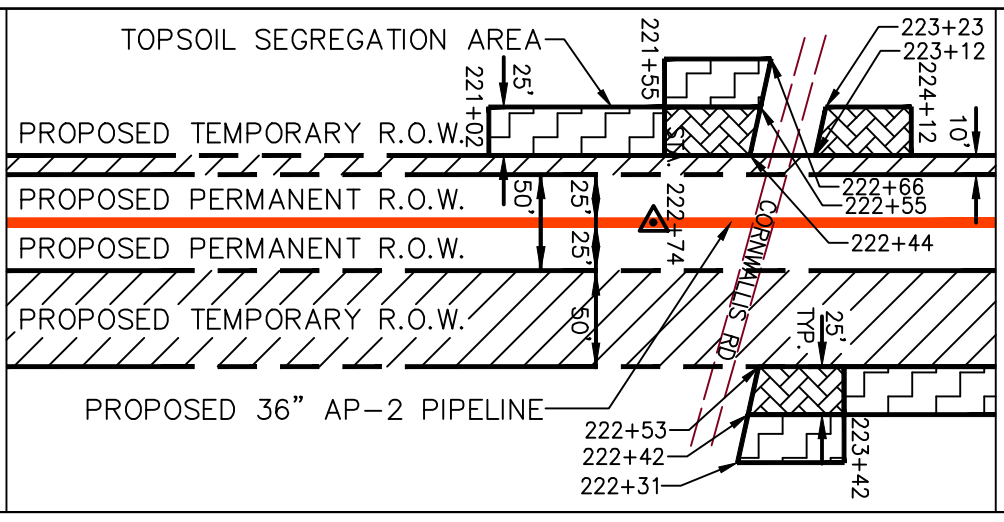
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NOTE:
STATIONING SHOWN ON
THE DRAWING IS BASED
ON SLOPE MEASUREMENTS.

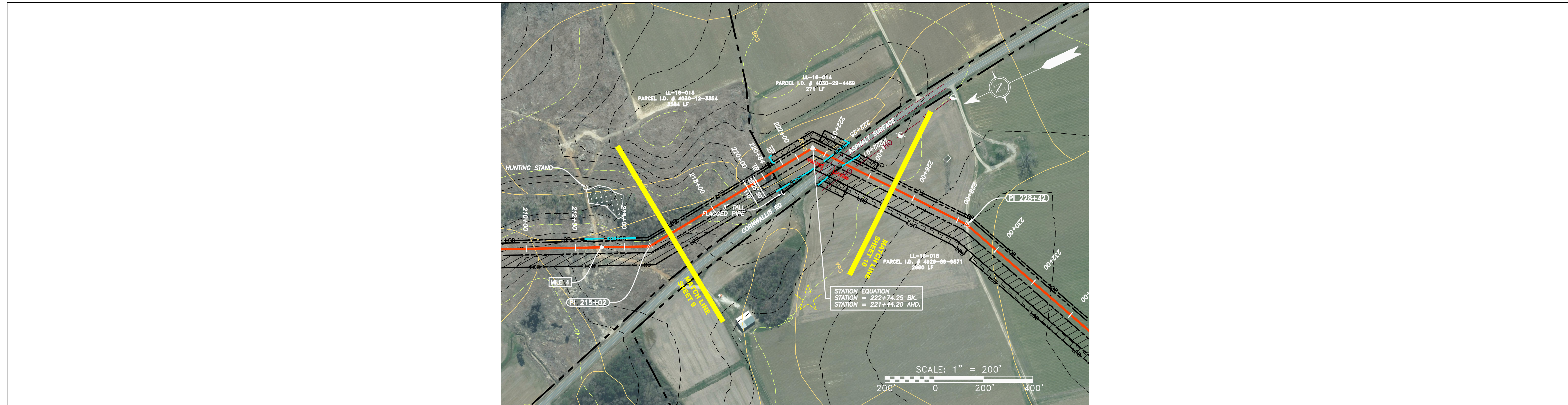
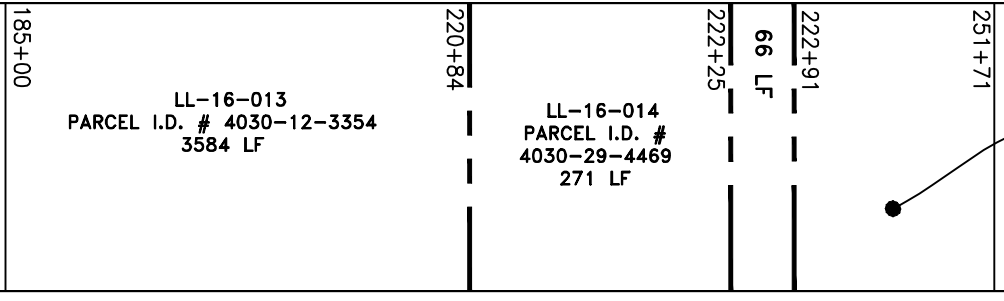
PROFILE VIEW
HORZ: 1" = 200'
VERT: 1" = 200'



STATIONING &
CONSTRUCTION LIMITS

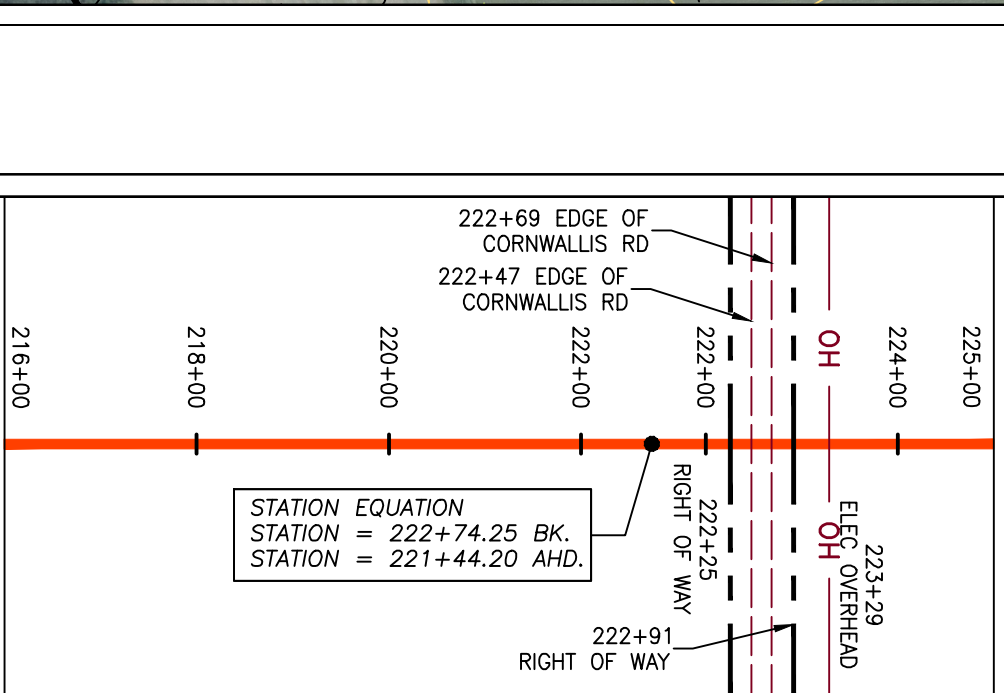


PROPERTY OWNERSHIP



PIPE SPECIFICATION

STRING VIEW BAND



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 — G —	STREAM	— SAN —	WATER LINE	[Green Box]	WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)	[Circle]	UTILITY POLE
— OH —	EXISTING GAS PIPELINE	— SAN —	SANITARY SEWER	[Green Box]	WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)	[Circle]	UTILITY POLE
— OH —	OVERHEAD UTILITY LINES	— E —	EDGE OF GRAVEL	[Green Box]	WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)	[Circle]	UTILITY POLE
— OH —	ACCESS ROAD	— E —	PROPOSED PERMANENT EASEMENT	[Green Box]	WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)	[Circle]	UTILITY POLE
— OH —	PROPOSED GAS PIPELINE	— E —	PROPOSED GAS PIPELINE (NO GROUND SURVEY)	[Green Box]	WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)	[Circle]	UTILITY POLE

[Triangle]	PERMANENT WATERBAR/SLOPE BREAKER	[Line]	LOD	[Line]	LIMIT OF DISTURBANCE
[Triangle]	TEMPORARY WATERBAR/SLOPE BREAKER	[Line]	BSRF	[Line]	BELTED SILT RETENTION FENCE (BSRF)
[Triangle]	TRENCH BREAKER/PLUG	[Line]	[Line]	[Line]	COIR LOG
[Triangle]	STREAM CROSSING	[Line]	[Line]	[Line]	COMPOST FILTER SOCK
[Triangle]	USFWS STREAM CROSSING WITH ENHANCED CONTROLS	[Line]	[Line]	[Line]	ORANGE SAFETY FENCE
[Triangle]	CONSTRUCTION ENTRANCE WITH DITCH	[Line]	[Line]	[Line]	ROADSIDE DITCH
[Triangle]	CULVERT/WATERBAR	[Line]	[Line]	[Line]	SOIL TYPE

NOTE: THE PE SEAL AND SIGNATURE APPLIES ONLY TO THE E&S CONTROL DESIGN COMPLETED BY ERM (SEE NOTE 10).

NOTES:

- COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY - UTM WITH NAD83 DATUM, ZONE 17, US SURVEY FOOT, CENTRAL MERIDIAN 81° W.
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NO.	DATE	DWN.	CHKD.	APPD.	DESCRIPTION

36" AP-2 PIPELINE
CONSTRUCTION ALIGNMENT STA 216+00 TO 225+00
NORTHAMPTON COUNTY, NORTH CAROLINA

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

SCALE:	AS SHOWN
DATE:	06/09/17
DRAWN:	GPT
CHECKED:	DLH
APPROVED:	NET

gai consultants - NC, inc.
4198 COX ROAD
SUITE 114
GLEN ALLEN, VA 23060
804-270-9357
N.C. COL. #P-0269

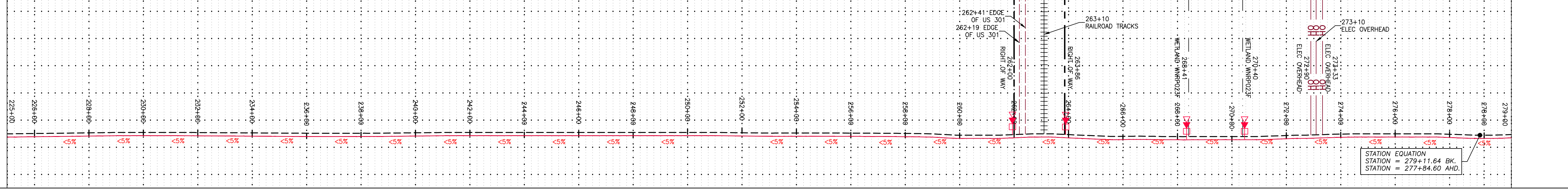
PROJECT NO./DASH NO.	C140468
TASK NO. SUB TASK NO.	005 00
GROUP ID DRAWING NO.	D E009A
9A OF 189	

GAI CAD FILE NO. \\ITG-FS1\THRASHER\050-5159 - GAI, INC. - GAI - THRASHER - SERP - MAPPING\SURVEY\DRAWING\SEC 9\PLAN SHEETS\SEC 9 SHEETS- 10-14 (5-8) REROUTE.DWG

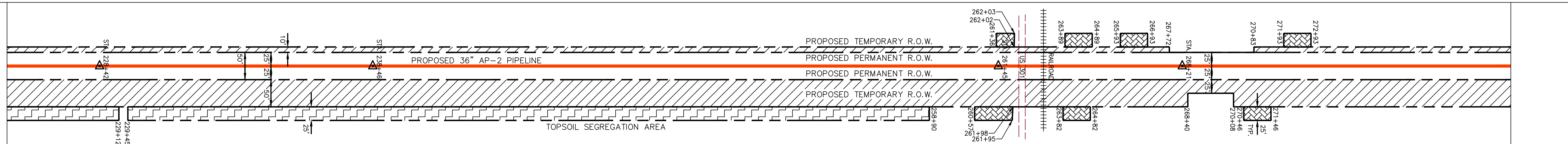
© 2017 GAI Consultants, Inc.

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

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



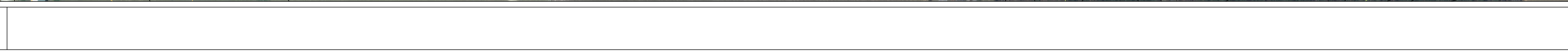
STATIONING & CONSTRUCTION LIMITS



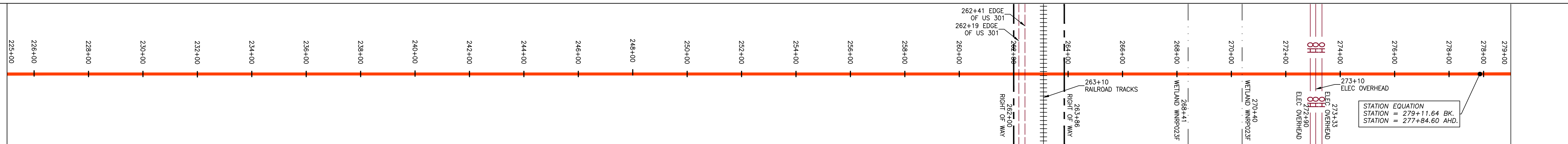
PROPERTY OWNERSHIP



PIPE SPECIFICATION



STRING VIEW BAND



LEGEND

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

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

[Symbol]	PERMANENT WATERBAR/SLOPE BREAKER	[Symbol]	LIMIT OF DISTURBANCE
[Symbol]	TEMPORARY WATERBAR/SLOPE BREAKER	[Symbol]	BELTED SILT RETENTION FENCE (BSRF)
[Symbol]	TRENCH BREAKER/PLUG	[Symbol]	COIR LOG
[Symbol]	STREAM CROSSING	[Symbol]	COMPOST FILTER SOCK
[Symbol]	USFWS STREAM CROSSING WITH ENHANCED CONTROLS	[Symbol]	ORANGE SAFETY FENCE
[Symbol]	CONSTRUCTION ENTRANCE WITH DITCH	[Symbol]	ROADSIDE DITCH
[Symbol]	CULVERT/WATERBAR	[Symbol]	SOIL TYPE

NOTE: THE PE SEAL AND SIGNATURE APPLIES ONLY TO THE E&S CONTROL DESIGN COMPLETED BY ERM (SEE NOTE 10).

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.
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REVISIONS

NO.	DATE	BY	CHKD.	APPD.	DESCRIPTION

36" AP-2 PIPELINE
CONSTRUCTION ALIGNMENT STA 225+00 TO 279+00
NORTHAMPTON COUNTY, NORTH CAROLINA

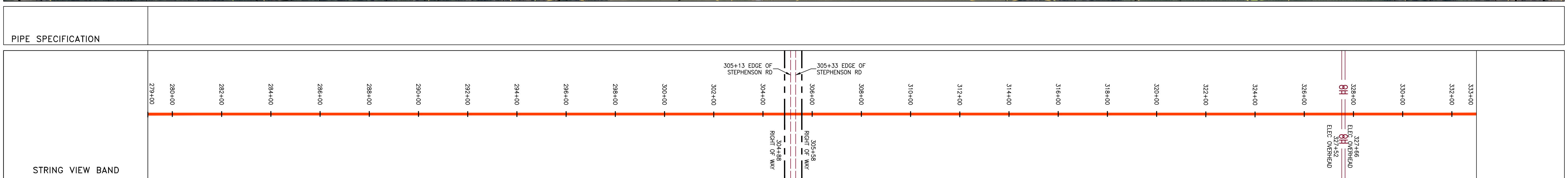
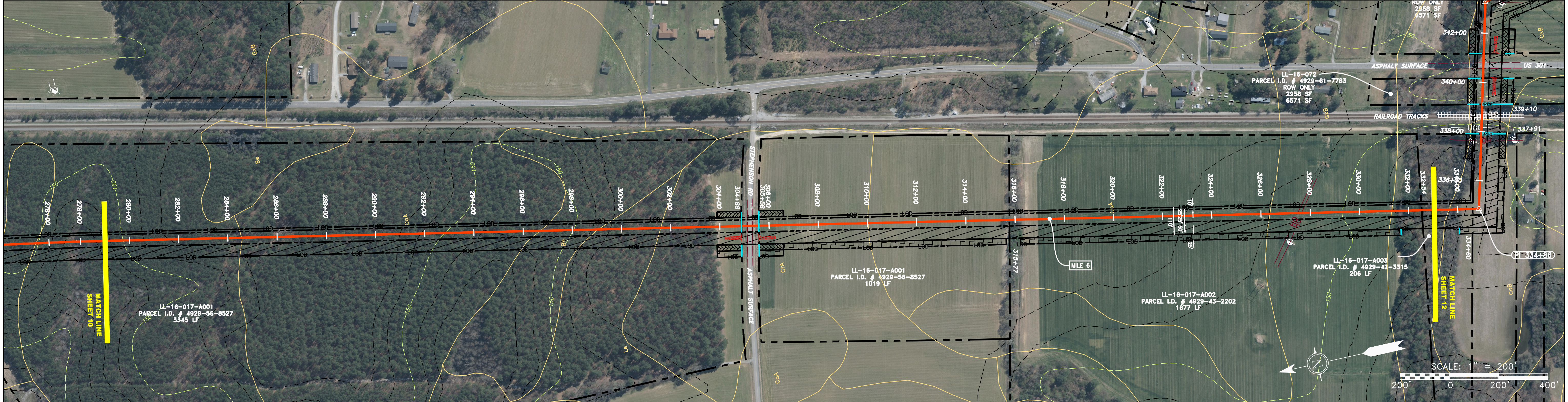
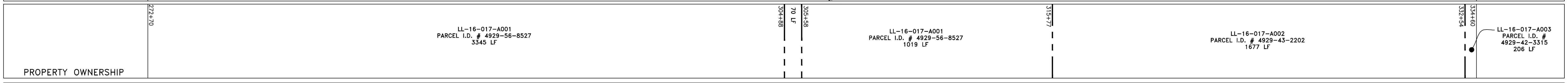
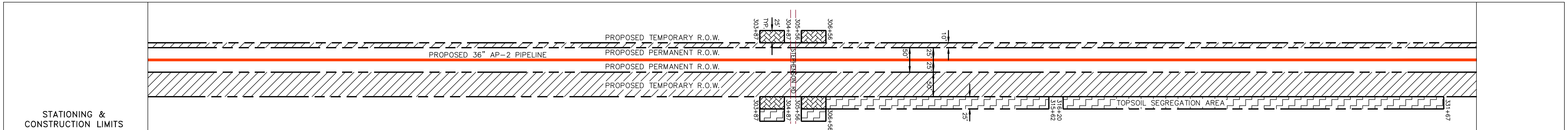
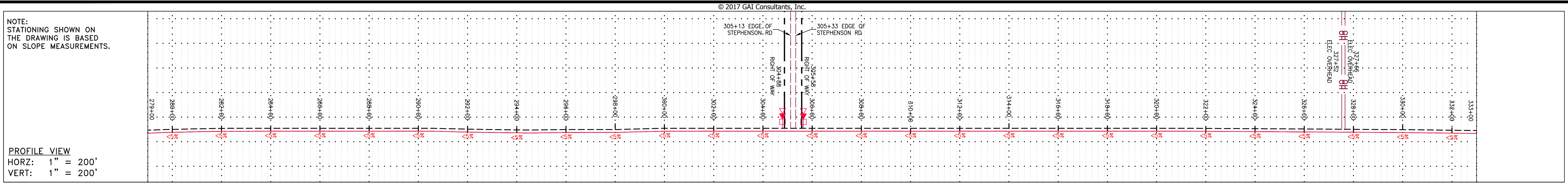
ATLANTIC COAST PIPELINE, LLC
C/O DOMINION TRANSMISSION, INC.
925 WHITE OAKS BLVD., BRIDGEPORT, WV 26330

SCALE:	AS SHOWN
DATE:	06/09/17
DRAWN:	GPT
CHECKED:	DLH
APPROVED:	NET

gai consultants - NC, inc.
4198 COX ROAD
SUITE 114
GLEN ALLEN, VA 23060
804-270-9357
N.C. COL #0269

PROJECT NO./DASH NO.	C140468	
TASK NO.	005	00
GROUP ID	D	E010
10	OF 189	

GAI CAD FILE NO. \ITG-FS\THRASHER\050-5159 - GIA, INC. - GAI - THRASHER - SERP - MAPPING\SURVEY\DRAWING\SEC 9\PLAN SHEETS\SEC 9 SHEETS- 10-14 (5-8) REROUTE.DWG



LEGEND

— X — X —	PROPERTY LINE	— E —	UNDERGROUND ELECTRIC	[Hatched Box]	EXTRA WORK SPACE	[Hatched Box]	TOPSOIL SEGREGATION AREA	[Triangle]	PERMANENT WATERBAR/SLOPE BREAKER	[Line]	LOD	LIMIT OF DISTURBANCE
— W —	STREAM	— W —	WATER LINE	[Hatched Box]	AREA OF NO DISTURBANCE	[Hatched Box]	PROPOSED TEMPORARY R.O.W.	[Triangle]	TEMPORARY WATERBAR/SLOPE BREAKER	[Line]	BSRF	BELTED SILT RETENTION FENCE (BSRF)
— G — G —	EXISTING GAS PIPELINE	— SAN —	SANITARY SEWER	[Hatched Box]	UTILITY POLE	[Hatched Box]	WETLAND	[Triangle]	TRENCH BREAKER/PLUG	[Line]	[Line]	COIR LOG
— OH —	OVERHEAD UTILITY LINES	— E —	EDGE OF GRAVEL	[Hatched Box]	WETLAND	[Hatched Box]	UTILITY POLE	[Triangle]	STREAM CROSSING	[Line]	[Line]	COMPOST FILTER SOCK
—	ACCESS ROAD	—	PROPOSED PERMANENT EASEMENT	[Hatched Box]	WETLAND	[Hatched Box]	UTILITY POLE	[Triangle]	USFWS STREAM CROSSING WITH ENHANCED CONTROLS	[Line]	[Line]	ORANGE SAFETY FENCE
—	PROPOSED GAS PIPELINE	—	PROPOSED GAS PIPELINE (NO GROUND SURVEY)	[Hatched Box]	WETLAND	[Hatched Box]	UTILITY POLE	[Triangle]	CONSTRUCTION ENTRANCE WITH DITCH	[Line]	[Line]	ROADSIDE DITCH
				[Hatched Box]	WETLAND	[Hatched Box]	UTILITY POLE	[Triangle]	CULVERT/ WATERBAR	[Line]	[Line]	SOIL TYPE

NOTES:

- COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY - UTM WITH NAD83 DATUM, ZONE 17, US SURVEY FOOT, CENTRAL MERIDIAN 81° W.
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REVISIONS	
NO.	DATE
CHKD.	DWN.
APPD.	DESCRIPTION

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

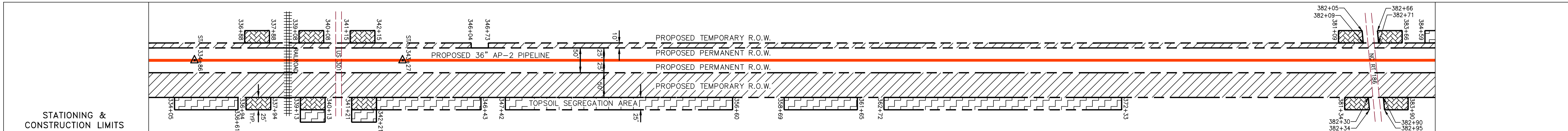
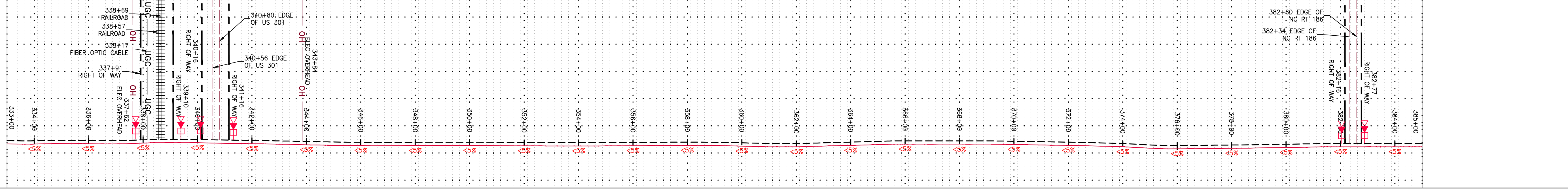
36" AP-2 PIPELINE
 CONSTRUCTION ALIGNMENT STA 279+00 TO 333+00
 NORTHAMPTON COUNTY, NORTH CAROLINA

SCALE: AS SHOWN
 DATE: 06/09/17
 DRAWN: GPT
 CHECKED: DLH
 APPROVED: NET

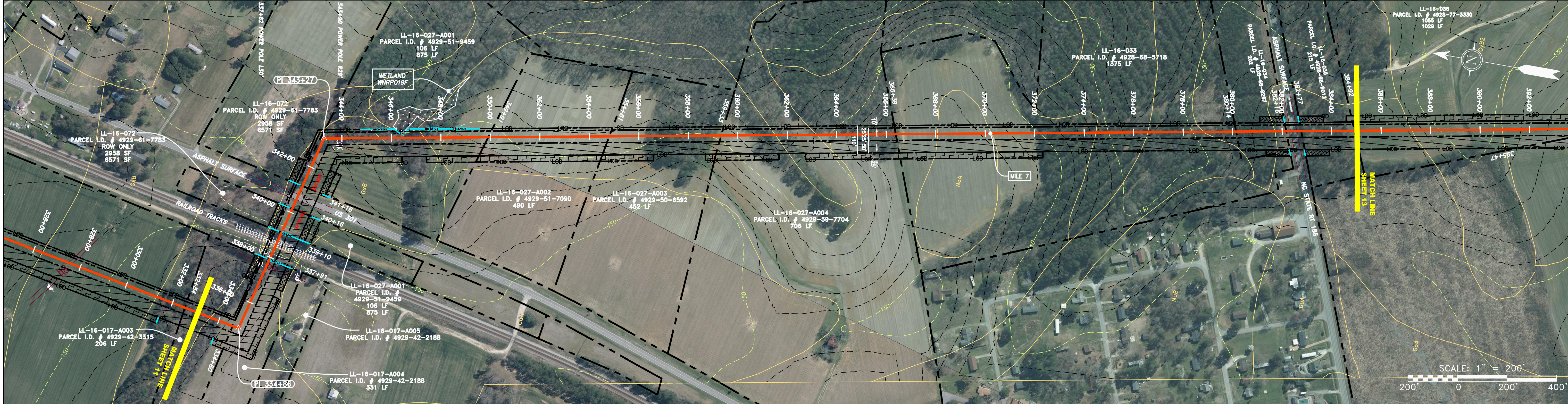
PROJECT NO./DASH NO. **C140468**
 TASK NO. SUB TASK NO. **005 00**
 GROUP ID DRAWING NO. **D E011**
 11 OF 189

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

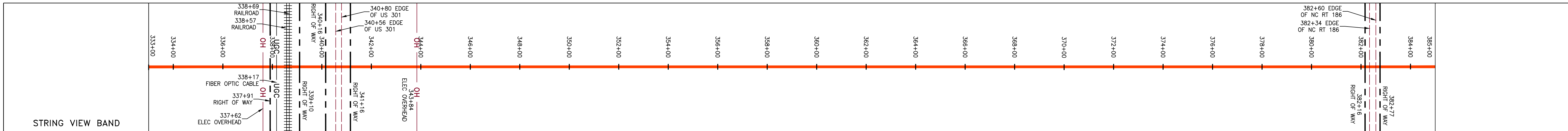
PROFILE VIEW
HORZ: 1" = 200'
VERT: 1" = 200'



PROPERTY OWNERSHIP table listing parcel IDs and acreages for various land parcels along the alignment.



PIPE SPECIFICATION



LEGEND table defining symbols for property lines, fences, streams, gas pipelines, easements, storm sewers, water lines, sanitary sewers, edge of gravel, access roads, underground electric, water lines, sanitary sewer, edge of gravel, proposed permanent easement, proposed gas pipeline, extra work space, topsoil segregation area, area of no disturbance, wetland, utility pole, permanent waterbar/slope breaker, temporary waterbar/slope breaker, trench breaker/plug, stream crossing, USFWS stream crossing with enhanced controls, construction entrance with ditch, culvert/waterbar, LOD, BSRF, coir log, compost filter sock, orange safety fence, roadside ditch, soil type.

- 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. 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 CONTROL ELEMENTS WILL BE PROVIDED FOR ROADS IN CATEGORIES 2, 3 AND 4. ROADS IN CATEGORIES 1 AND 2 HAVE ADEQUATE EXISTING DRAINAGE FEATURES WILL BE PROVIDED FOR ROADS IN CATEGORIES 3 AND 4. 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.

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

Professional Engineer seal for GAI CONSULTANTS, INC. and project information: 36" AP-2 PIPELINE, CONSTRUCTION ALIGNMENT STA 333+00 TO 385+00, ATLANTIC COAST PIPELINE, LLC, C/O DOMINION TRANSMISSION, INC., 925 WHITE OAKS BLVD., BRIDGEPORT, WV 26330.

Scale: AS SHOWN, Date: 06/09/17, Drawn: GPT, Checked: DLH, Approved: NET.

gai consultants - NC, inc. 4198 COX ROAD SUITE 114 GLEN ALLEN, VA 23060 804-270-9357 N.C. COL #0269

PROJECT NO./DASH NO. C140468, TASK NO. 005, SUB TASK NO. 00, GROUP ID D, DRAWING NO. E012, 12 OF 189.

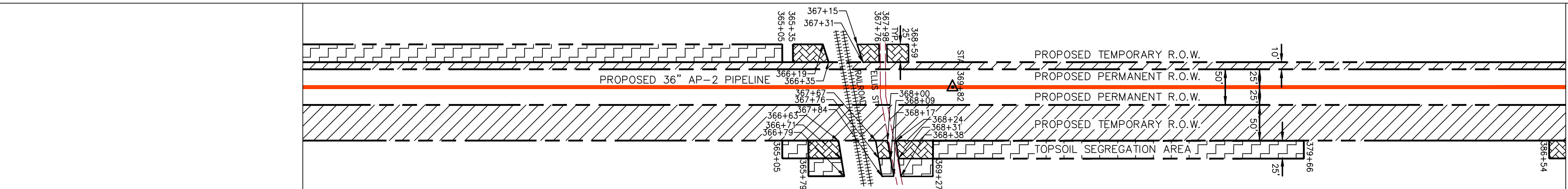
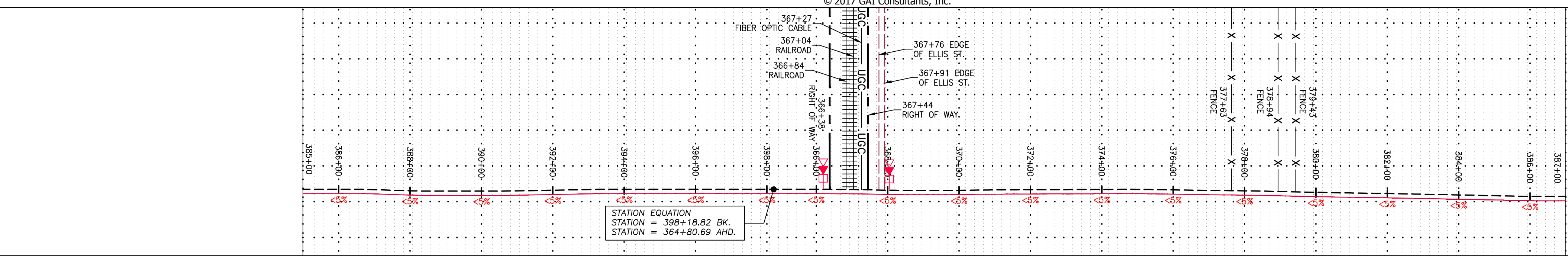
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NOTE:
STATIONING SHOWN ON
THE DRAWING IS BASED
ON SLOPE MEASUREMENTS.

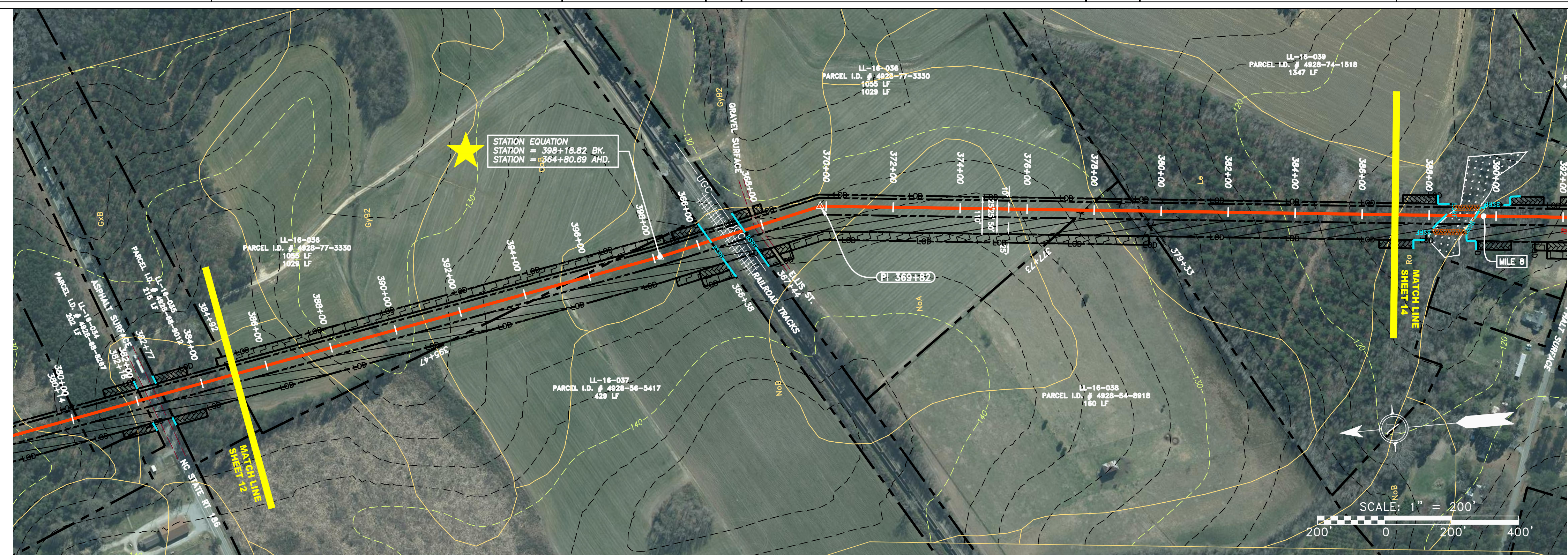
PROFILE VIEW
HORZ: 1" = 200'
VERT: 1" = 200'

STATIONING &
CONSTRUCTION LIMITS

PROPERTY OWNERSHIP

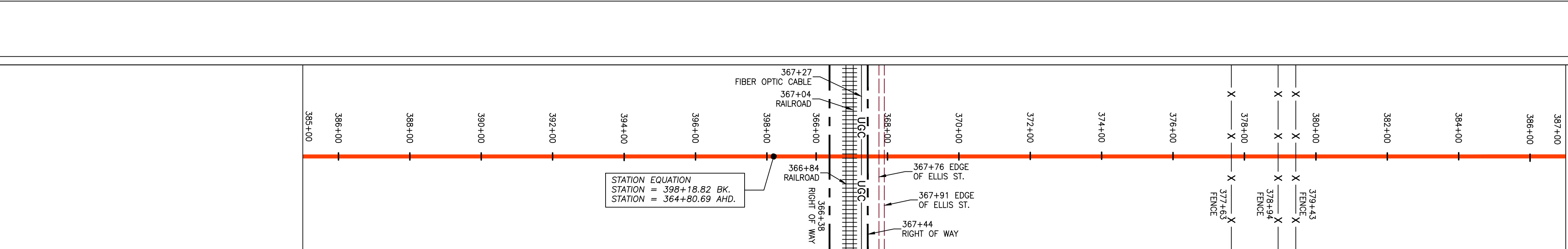


LL-16-036 PARCEL I.D. # 4928-77-3330 1055 LF	LL-16-037 PARCEL I.D. # 4928-56-5417 429 LF	LL-16-036 PARCEL I.D. # 4928-77-3330 1029 LF	LL-16-038 PARCEL I.D. # 4928-54-8918 160 LF	LL-16-039 PARCEL I.D. # 4928-74-1518 1347 LF
--	---	--	---	--



PIPE SPECIFICATION

STRING VIEW BAND



LEGEND

— X — X —	FENCE	— E —	UNDERGROUND ELECTRIC	[Hatched Box]	EXTRA WORK SPACE	[Hatched Box]	TOPSOIL SEGREGATION AREA	[Triangle]	PERMANENT WATERBAR/SLOPE BREAKER	[Line]	LOD	LIMIT OF DISTURBANCE
— G — G —	EXISTING GAS PIPELINE	— W —	WATER LINE	[Hatched Box]	AREA OF NO DISTURBANCE	[Hatched Box]	PROPOSED TEMPORARY R.O.W.	[Diamond]	TEMPORARY WATERBAR/SLOPE BREAKER	[Line]	BSRF	BELTED SILT RETENTION FENCE (BSRF)
— OH —	OVERHEAD UTILITY LINES	— SAN —	SANITARY SEWER	[Hatched Box]	WETLAND	[Hatched Box]	UTILITY POLE	[Diamond]	TRENCH BREAKER/PLUG	[Line]	COIR LOG	COIR LOG
—	PROPOSED GAS PIPELINE	—	PROPOSED PERMANENT EASEMENT	[Hatched Box]	NOTE: THE PE SEAL AND SIGNATURE APPLIES ONLY TO THE E&S CONTROL DESIGN COMPLETED BY ERM (SEE NOTE 10).			[Diamond]	STREAM CROSSING WITH ENHANCED CONTROLS	[Line]	COMPOST FILTER SOCK	COMPOST FILTER SOCK
—	PROPOSED GAS PIPELINE (NO GROUND SURVEY)							[Triangle]	USFWS STREAM CROSSING	[Line]	ORANGE SAFETY FENCE	ORANGE SAFETY FENCE
								[Triangle]	CONSTRUCTION ENTRANCE WITH DITCH	[Line]	ROADSIDE DITCH	ROADSIDE DITCH
								[Triangle]	CULVERT/ WATERBAR	[Line]	CuB	SOIL TYPE

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REVISIONS		DESCRIPTION
NO.	DATE	DWN.
CHKD.	APPD.	

36" AP-2 PIPELINE
CONSTRUCTION ALIGNMENT STA 385+00 TO 387+00
NORTHAMPTON COUNTY, NORTH CAROLINA

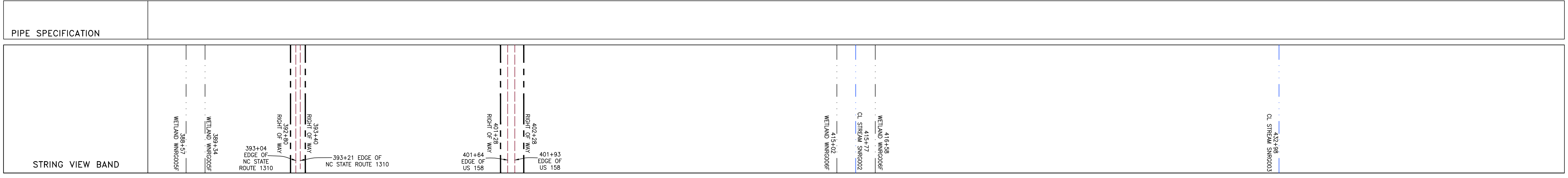
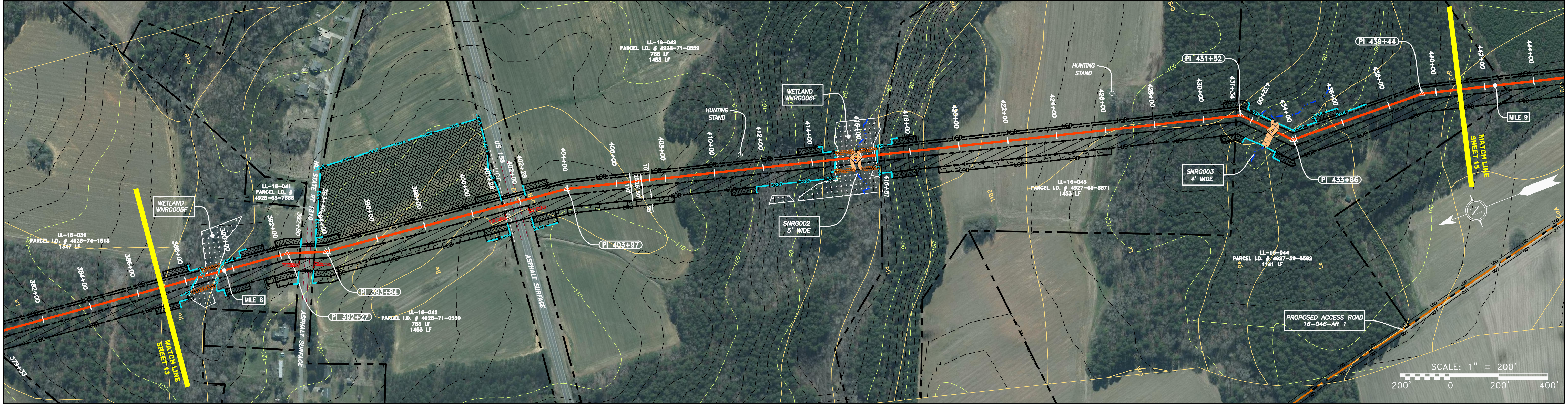
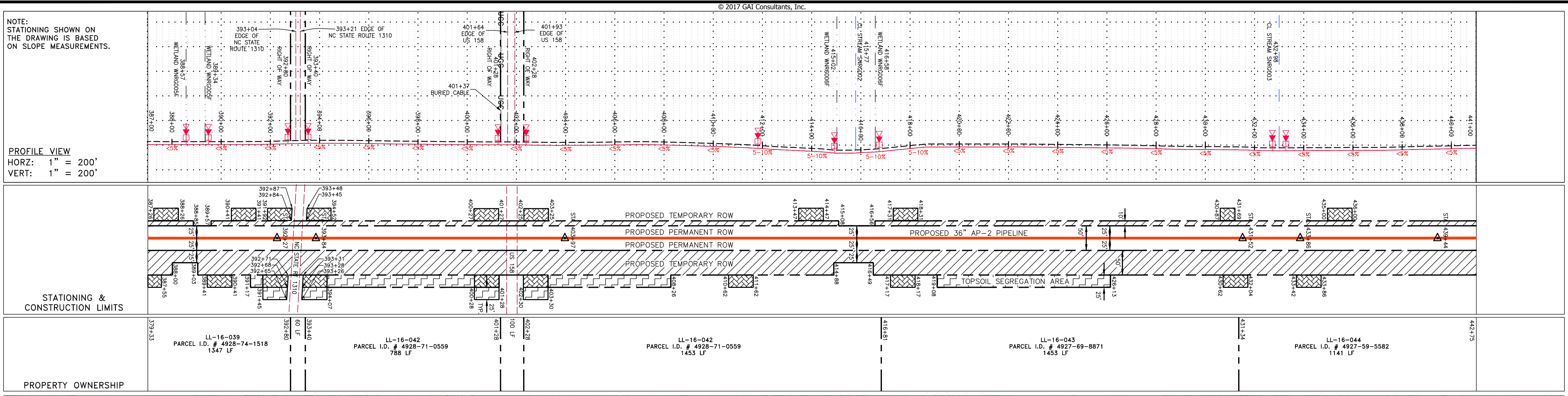
ATLANTIC COAST PIPELINE, LLC
C/O DOMINION TRANSMISSION, INC.
925 WHITE OAKS BLVD., BRIDGEPORT, WV 26330

SCALE: AS SHOWN
DATE: 06/09/17
DRAWN: GPT
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gai consultants - NC, inc.
4198 COX ROAD
SUITE 114
GLEN ALLEN, VA 23060
804-270-9357
N.C. COL #F-0269

PROJECT NO./DASH NO.	C140468
TASK NO. SUB TASK NO.	005 00
GROUP ID DRAWING NO.	D E013
13 OF 189	

GAI CAD FILE NO. \\\TTC-FS1\THRASHER\050-5159 - GAI, INC. - GAI - THRASHER - SERP - MAPPING\SURVEY\DRAWING\SEC 9\PLAN SHEETS\SEC 9 SHEETS- 10-14 (5-8) REROUTE.DWG



LEGEND

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

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.
- 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 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.

REVISIONS		DESCRIPTION
NO.	DATE	DWN.
CHKD.	APPD.	

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SCALE: AS SHOWN
 DATE: 06/09/17
 DRAWN: GPT
 CHECKED: DLH
 APPROVED: NET

PROJECT NO./DASH NO.
C140468

TASK NO. SUB TASK NO.
005 00

GROUP ID DRAWING NO.
D E014

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