

- 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 7-23-2014 TO 10-16-2014.
- IMAGERY DERIVED FROM GOOGLE MAPS.
- 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.
- ALL STATIONING SHOWN IS SLOPE STATIONING.
- ERM AND JAMES HEMME, WV P. E. NO. 12195 (HEREAFTER COLLECTIVELY REFERRED TO AS ERM) HAVE DEPICTED EROSION AND SEDIMENTATION CONTROL (E&SC) BEST MANAGEMENT PRACTICES (BMPs) ON THESE ALIGNMENT PLAN SHEETS PREPARED BY GAI CONSULTANTS, INC. FOR USE BY CONTRACTOR TO CONTROL EROSION AND SEDIMENTATION DURING CONSTRUCTION OF THIS PROJECT. 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 GENERAL NOTES SECTION OF THIS PLAN SET. NO RESPONSIBILITY IS ASSUMED FOR INACCURACIES OF SOURCE DATA PROVIDED BY OTHERS. ERM RETAINS NO RESPONSIBILITY OF LIABILITY FOR INFORMATION DEVELOPED, PREPARED OR OTHERWISE PROVIDED BY OTHER, OR FOR INACCURACIES OF SOURCE DATA PROVIDED BY OTHER. ERM ASSUMES NO RESPONSIBILITY OR LIABILITY FOR DESIGNS OR WORK PRODUCTS OF ANY TYPE TO THE EXTENT THAT THEY ARE BASED UPON OR DERIVED FROM SUCH INCORRECT INFORMATION OR DATA.

ONE CALL INFO



Atlantic Coast PipelineSM

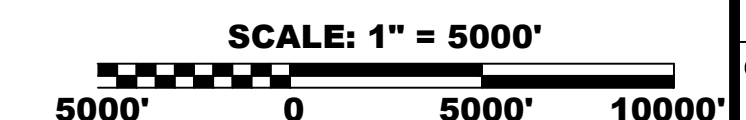
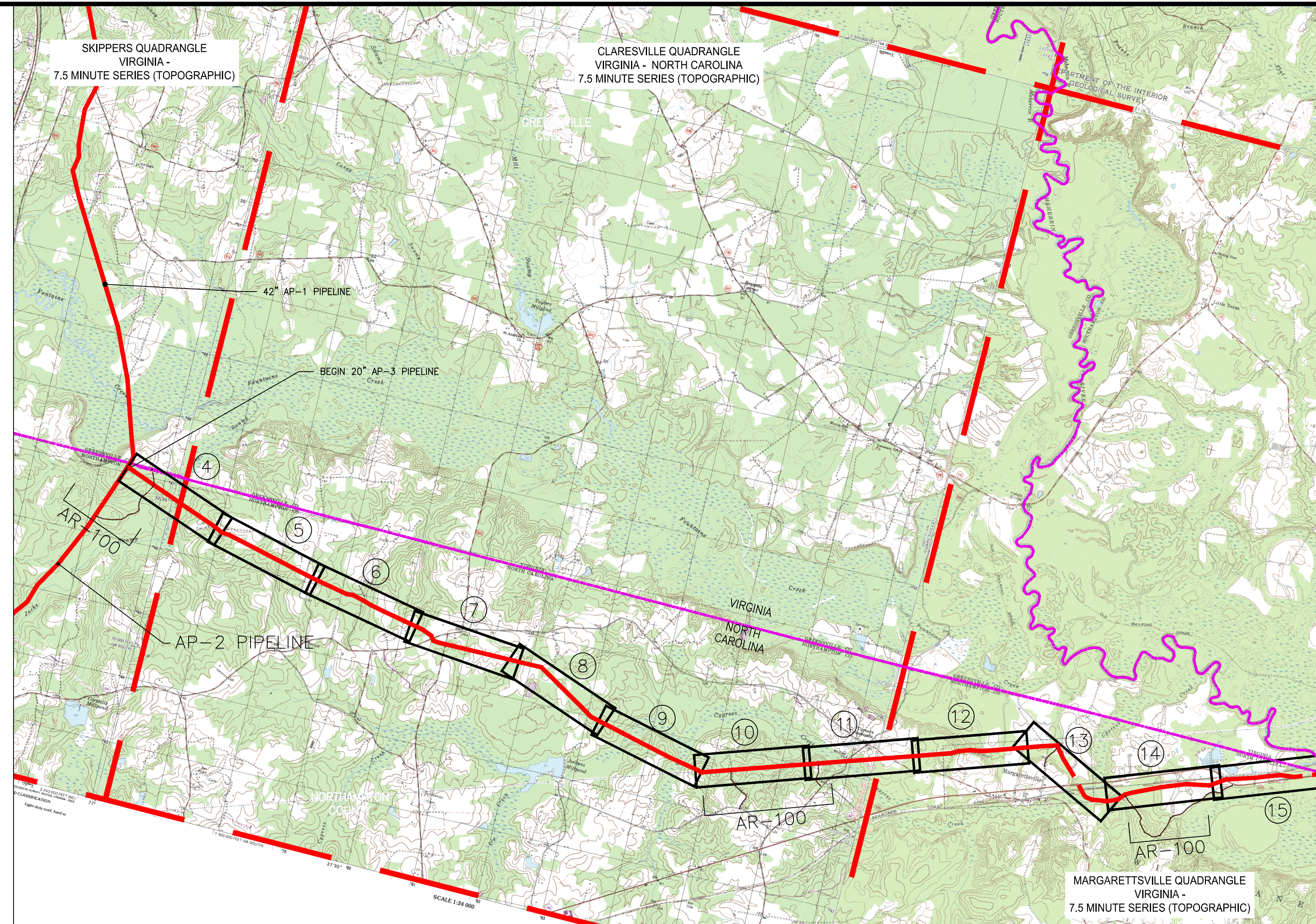
LEGEND

- PROPOSED GAS PIPELINE
- PROPOSED GAS PIPELINE (NO GROUND SURVEY)
- PROPOSED ACCESS ROAD
- COUNTY LINES
- USGS 7.5 MINUTE TOPOGRAPHICAL BOUNDARIES
- ALIGNMENT SHEET NUMBER
- ACCESS ROAD SHEET NUMBER

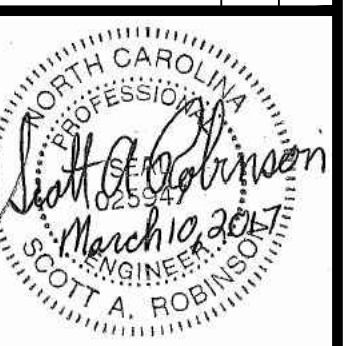
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SHEET NO.	REV.	SHEET TITLE
1		COVER SHEETS
2-3		INTENTIONALLY LEFT BLANK
4		CONSTRUCTION ALIGNMENT (STA 00+00 TO 54+00)
5		CONSTRUCTION ALIGNMENT (STA 54+00 TO 108+00)
6		CONSTRUCTION ALIGNMENT (STA 108+00 TO 162+00)
7		CONSTRUCTION ALIGNMENT (STA 162+00 TO 216+00)
8		CONSTRUCTION ALIGNMENT (STA 216+00 TO 270+00)
9		CONSTRUCTION ALIGNMENT (STA 270+00 TO 324+00)
10		CONSTRUCTION ALIGNMENT (STA 324+00 TO 378+00)
11		CONSTRUCTION ALIGNMENT (STA 378+00 TO 432+00)

AP-3 PIPELINE DRAWING INDEX		
SHEET NO.	REV.	SHEET TITLE
12		CONSTRUCTION ALIGNMENT (STA 432+00 TO 486+00)
13		CONSTRUCTION ALIGNMENT (STA 486+00 TO 540+00)
14		CONSTRUCTION ALIGNMENT (STA 540+00 TO 594+00)
15		CONSTRUCTION ALIGNMENT (STA 594+00 TO 648+00)

ATLANTIC COAST PIPELINE PROJECT 20" AP-3 PIPELINE



NO.	DATE	DWN.	CHKD.	APPVD.	DESCRIPTION



20" AP-3 PIPELINE
E & S CONTROLS COVER SHEET
NORTHAMPTON COUNTY, NORTH CAROLINA
GREENVILLE & SOUTHAMPTON COUNTIES, VIRGINIA
ATLANTIC COAST PIPELINE, LLC
C/O DOMINION TRANSMISSION, INC.
925 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330

SCALE: AS SHOWN
DATE: 3/10/17
DRAWN: GOS
CHECKED: DLH
APPROVED: NET

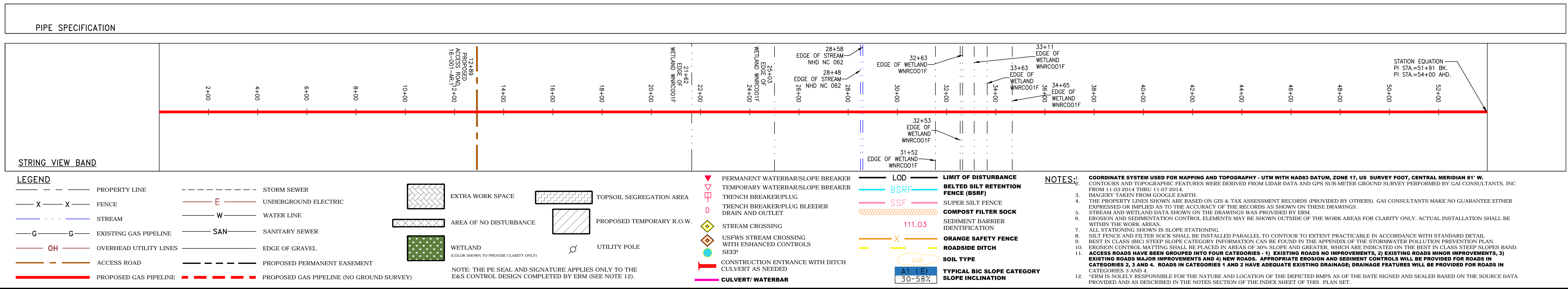
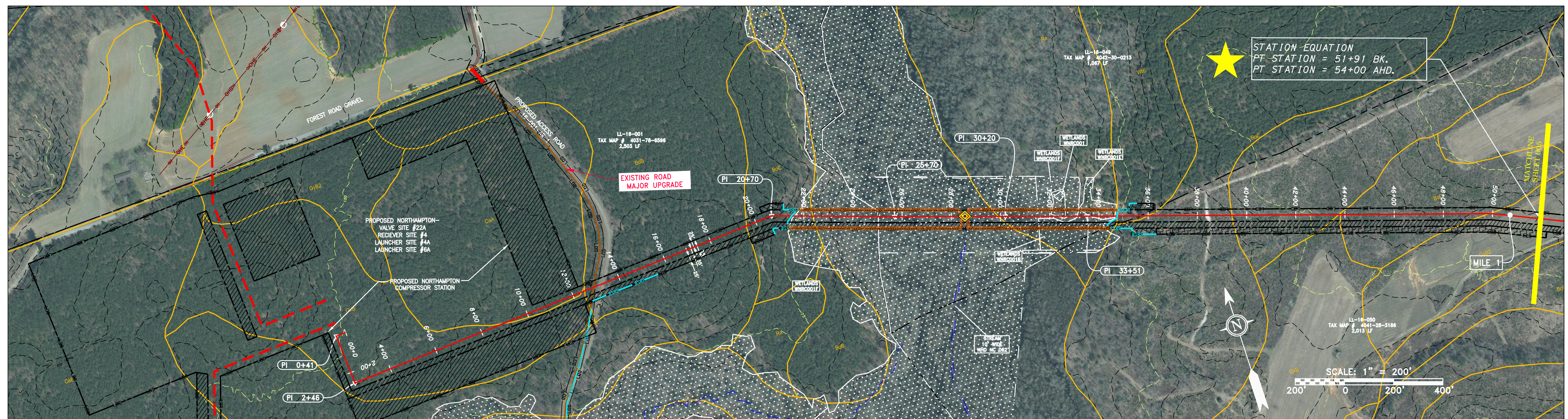
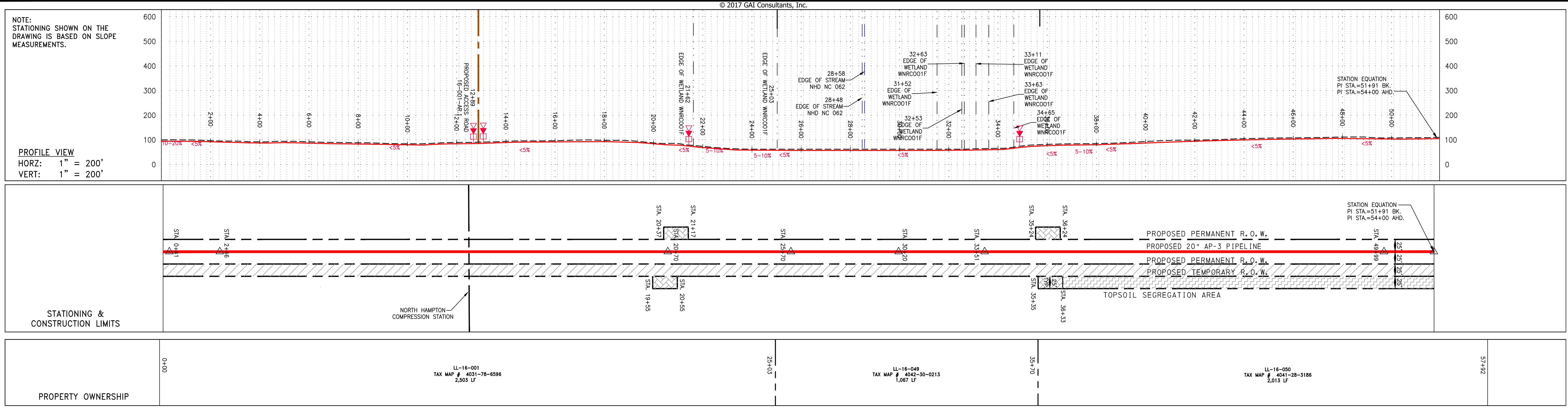
gai consultants - NC, inc.
4198 COX ROAD
SUITE 114
GLEN ALLEN, VA 23060
804-270-9357
N.C. COL #F-0269

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

PROJECT NO./DASH NO.
140468
TASK NO. SUB TASK NO.
005 00
GROUP ID DRAWING NO.
D E001
001 OF 15

3/10/2017 4:21 PM

GAI CAD FILE NO. J:\2665 - GAI\WORK ORDER 06 - SOUTHEAST PIPELINE (SECTION 7)\3 - CAD DRAWINGS\ALIGNMENT SHEETS\2665-6 SECTION 7 COVER FOR PLAN SHEETS (1-2) E & S.DWG



REVISIONS			
NO.	DATE	CHKD.	APPROV.

20" AP-3 PIPELINE
CONSTRUCTION ALIGNMENT STA 0+00 TO 54+00
NORTHAMPTON COUNTY, NORTH CAROLINA

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

ERM

SCALE:	AS SHOWN
DATE:	6/5/17
DRAWN:	CLM
CHECKED:	DLH
APPROVED:	NET

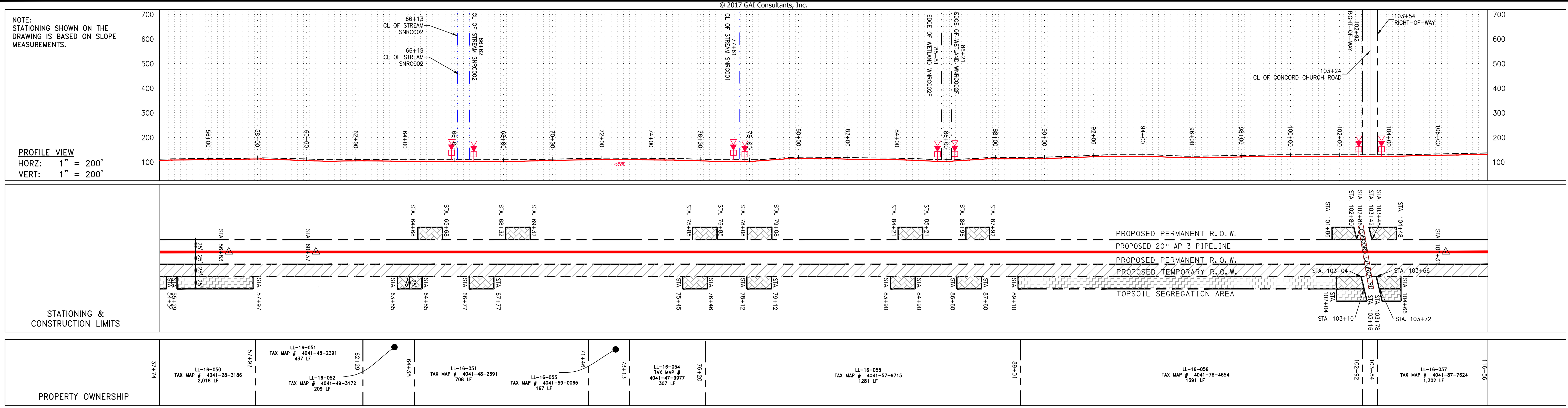
gai consultants - NC, inc.

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

mbe
monah basin
engineers

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

PROJECT NO./DASH NO.	140468	
TASK NO.	SUB TASK NO.	00
GROUP ID	DRAWING NO.	E004
004	OF	84



REVISIONS			
NO.	DATE	CHKD.	APPROV.

20" AP-3 PIPELINE
CONSTRUCTION ALIGNMENT STA 54+00 TO 108+00
 NORTHAMPTON COUNTY, NORTH CAROLINA
ATLANTIC COAST PIPELINE, LLC
 C/O DOMINION TRANSMISSION, INC.
 925 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330

SCALE:	AS SHOWN
DATE:	6/5/17
DRAWN:	CLM
CHECKED:	DLH
APPROVED:	NET

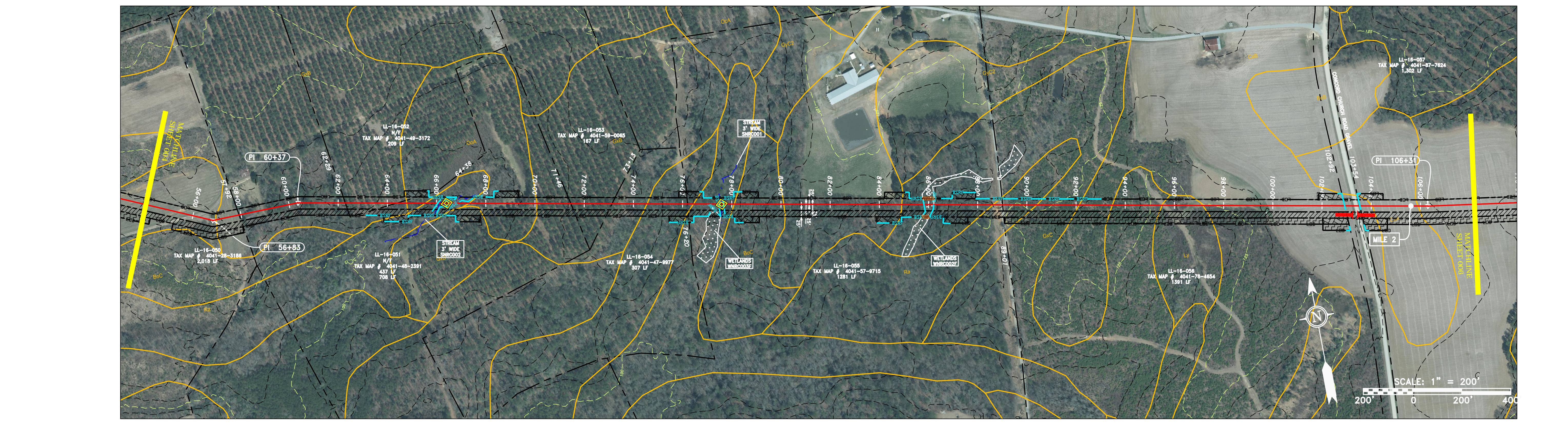
gai consultants - NC, inc.

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

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

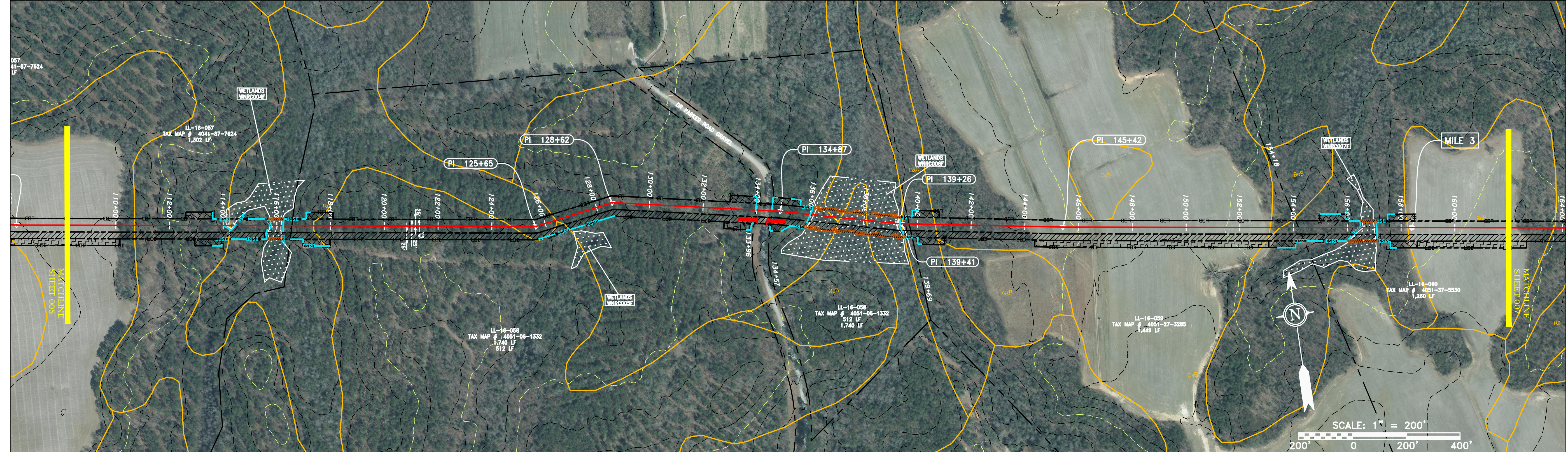
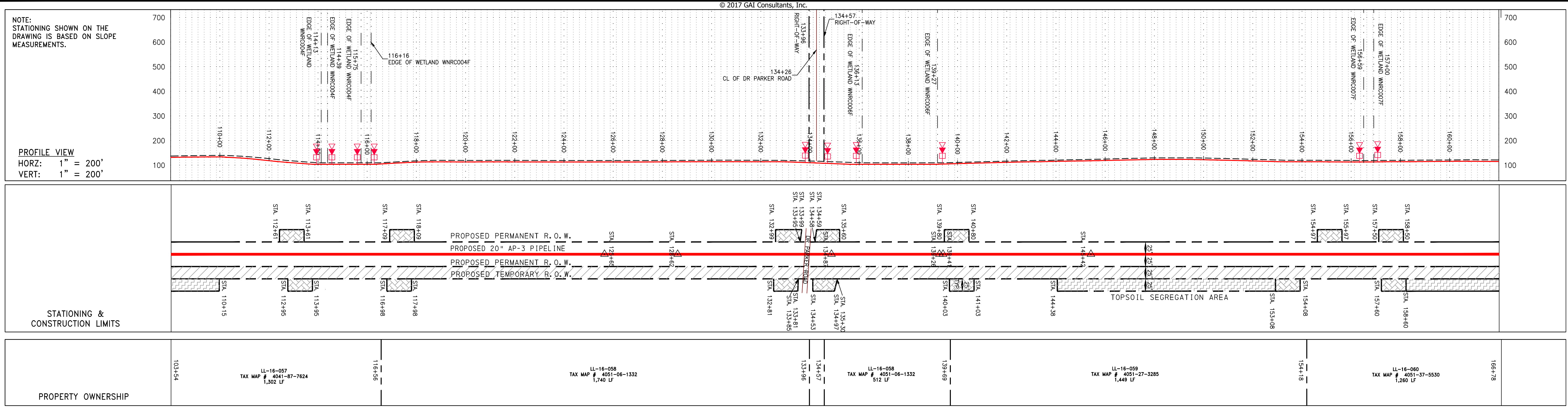
PROJECT NO./DASH NO.		140468	
TASK NO.	SUB TASK NO.	005	00
GROUP ID	DRAWING NO.	D	E005
005	OF	84	

6/5/2017 10:03 AM

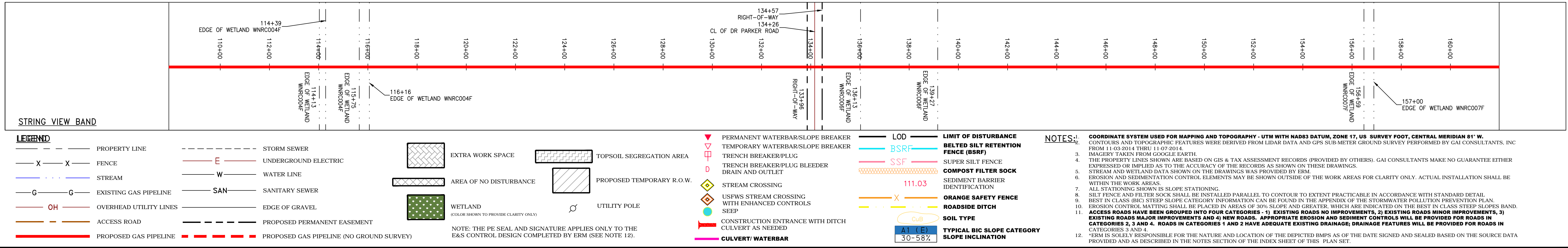


PIPE SPECIFICATION

LEGEND		NOTES:	
—	PROPERTY LINE	1.	COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY - UTM WITH NAD83 DATUM, ZONE 17, US SURVEY FOOT, CENTRAL MERIDIAN 81° W.
-X-X-	FENCE	2.	CONTOURS AND TOPOGRAPHIC FEATURES WERE DERIVED FROM LIDAR DATA AND GPS SUB METER GROUND SURVEY PERFORMED BY GAI CONSULTANTS, INC. FROM 11-03-2014 THRU 11-07-2014.
—	STREAM	3.	IMAGERY TAKEN FROM GOOGLE EARTH.
-G-G-	EXISTING GAS PIPELINE	4.	THE PROPERTY LINES SHOWN ARE BASED ON GIS & TAX ASSESSMENT RECORDS (PROVIDED BY OTHERS). GAI CONSULTANTS MAKE NO GUARANTEE EITHER EXPRESSED OR IMPLIED AS TO THE ACCURACY OF THE RECORDS AS SHOWN ON THESE DRAWINGS.
-OH-	OVERHEAD UTILITY LINES	5.	STREAM AND WETLAND DATA SHOWN ON THE DRAWINGS WAS PROVIDED BY ERM.
-	ACCESS ROAD	6.	EROSION AND SEDIMENTATION CONTROL ELEMENTS MAY BE SHOWN OUTSIDE OF THE WORK AREAS FOR CLARITY ONLY. ACTUAL INSTALLATION SHALL BE WITHIN THE WORK AREAS.
-	PROPOSED GAS PIPELINE	7.	ALL STATIONING SHOWN IS SLOPE STATIONING.
-	PROPOSED GAS PIPELINE (NO GROUND SURVEY)	8.	SILT FENCE AND FILTER SOCK SHALL BE INSTALLED PARALLEL TO CONTOUR TO EXTENT PRACTICABLE IN ACCORDANCE WITH STANDARD DETAIL.
-	STORM SEWER	9.	BEST IN CLASS (BIC) STEEP SLOPE INFORMATION CAN BE FOUND IN THE APPENDIX OF THE STORMWATER POLLUTION PREVENTION PLAN.
-	UNDERGROUND ELECTRIC	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.
-	WATER LINE	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 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.
-	SANITARY SEWER	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.
-	EDGE OF GRAVEL		
-	PROPOSED PERMANENT EASEMENT		
-	PROPOSED PERMANENT R.O.W.		
-	WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)		
-	UTILITY POLE		
-	EXTRA WORK SPACE		
-	TOPSOIL SEGREGATION AREA		
-	AREA OF NO DISTURBANCE		
-	PROPOSED TEMPORARY R.O.W.		
-	PERMANENT WATERBARS/SLOPE BREAKER		
-	TEMPORARY WATERBARS/SLOPE BREAKER		
-	TRENCH BREAKER/PLUG		
-	TRENCH BREAKER/PLUG BLEEDER		
-	DRAIN AND OUTLET		
-	STREAM CROSSING		
-	USFWS STREAM CROSSING WITH ENHANCED CONTROLS		
-	SEEP		
-	CONSTRUCTION ENTRANCE WITH DITCH CULVERT AS NEEDED		
-	CULVERT/WATERBAR		
-	LOD		
-	BELTED SILT RETENTION FENCE (BSRF)		
-	SUPER SILT FENCE		
-	COMPOST FILTER SOCK		
-	SEDIMENT BARRIER IDENTIFICATION		
-	ORANGE SAFETY FENCE		
-	ROADSIDE DITCH		
-	SOIL TYPE		
-	TYPICAL BIC SLOPE CATEGORY		
-	SLOPE INCLINATION		



PIPE SPECIFICATION



REVISIONS

NO.	DATE	BY	CHKD.	APPROV.	DESCRIPTION

ERM

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

20" AP-3 PIPELINE
 CONSTRUCTION ALIGNMENT STA 108+00 TO 162+00
 NORTHAMPTON COUNTY, NORTH CAROLINA

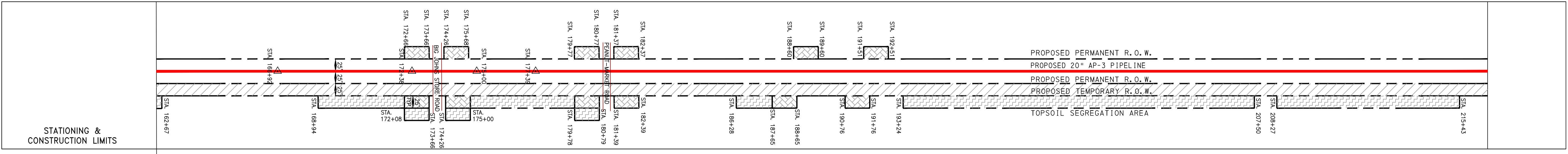
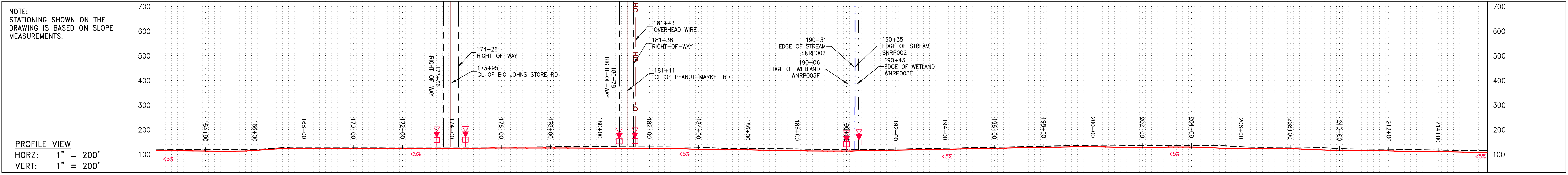
SCALE: AS SHOWN
 DATE: 6/5/17
 DRAWN: CLM
 CHECKED: DLH
 APPROVED: NET

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

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

PROJECT NO./DASH NO. 140468
 TASK NO. SUB TASK NO. 005 00
 GROUP ID DRAWING NO. D E006
 006 OF 84

6/5/2017 10:05 AM



PROPERTY OWNERSHIP	STATIONING & CONSTRUCTION LIMITS
LL-16-060 TAX MAP # 4051-37-5530 1,200 LF	STA. 164+00 to STA. 172+00
LL-16-061 TAX MAP # 4051-37-0970 688 LF	STA. 172+00 to STA. 177+00
LL-16-062 TAX MAP # 4051-45-9693 652 LF	STA. 177+00 to STA. 182+00
LL-16-063 TAX MAP # 4051-75-3457 2,603 LF	STA. 182+00 to STA. 207+50
LL-16-064 TAX MAP # 4051-86-8242 1,220 LF	STA. 207+50 to STA. 214+43



REVISIONS			
NO.	DATE	CHKD.	APPROV.

ERM

20" AP-3 PIPELINE
CONSTRUCTION ALIGNMENT STA 162+00 TO 216+00
 NORTHAMPTON COUNTY, NORTH CAROLINA

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

SCALE: AS SHOWN
 DATE: 6/5/17
 DRAWN: CLM
 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

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

PROJECT NO./DASH NO.	140468	
TASK NO.	SUB TASK NO.	005 / 00
GROUP ID	DRAWING NO.	D / E007
007	OF 84	

6/5/2017 10:08 AM

PIPE SPECIFICATION

STRING VIEW BAND

LEGEND

<ul style="list-style-type: none"> PROPERTY LINE FENCE EXISTING GAS PIPELINE OVERHEAD UTILITY LINES ACCESS ROAD PROPOSED GAS PIPELINE 	<ul style="list-style-type: none"> STORM SEWER UNDERGROUND ELECTRIC WATER LINE SANITARY SEWER EDGE OF GRAVEL PROPOSED PERMANENT EASEMENT PROPOSED GAS PIPELINE (NO GROUND SURVEY) 	<ul style="list-style-type: none"> EXTRA WORK SPACE AREA OF NO DISTURBANCE WETLAND TOPSOIL SEGREGATION AREA PROPOSED TEMPORARY R.O.W. UTILITY POLE 	<ul style="list-style-type: none"> PERMANENT WATERBARS/SLOPE BREAKER TEMPORARY WATERBARS/SLOPE BREAKER TRENCH BREAKER/PLUG DRAIN AND OUTLET STREAM CROSSING USFWS STREAM CROSSING WITH ENHANCED CONTROLS SEEP CONSTRUCTION ENTRANCE WITH DITCH CULVERT/ WATERBAR 	<ul style="list-style-type: none"> LOD - LIMIT OF DISTURBANCE BSRF - BELTED SILT RETENTION FENCE (BSRF) SSF - SUPER SILT FENCE COMPOST FILTER SOCK SEDIMENT BARRIER IDENTIFICATION ORANGE SAFETY FENCE ROADSIDE DITCH SOIL TYPE TYPICAL BIG SCALE CATEGORY SLOPE INCLINATION
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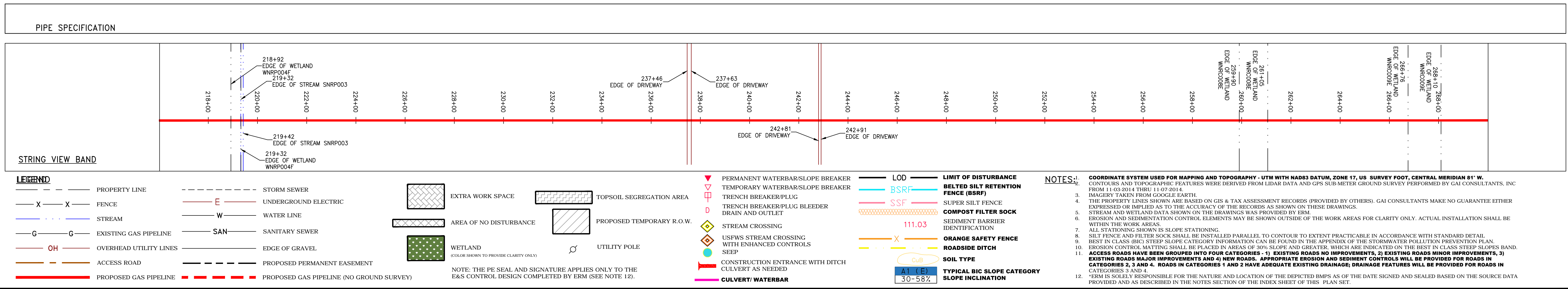
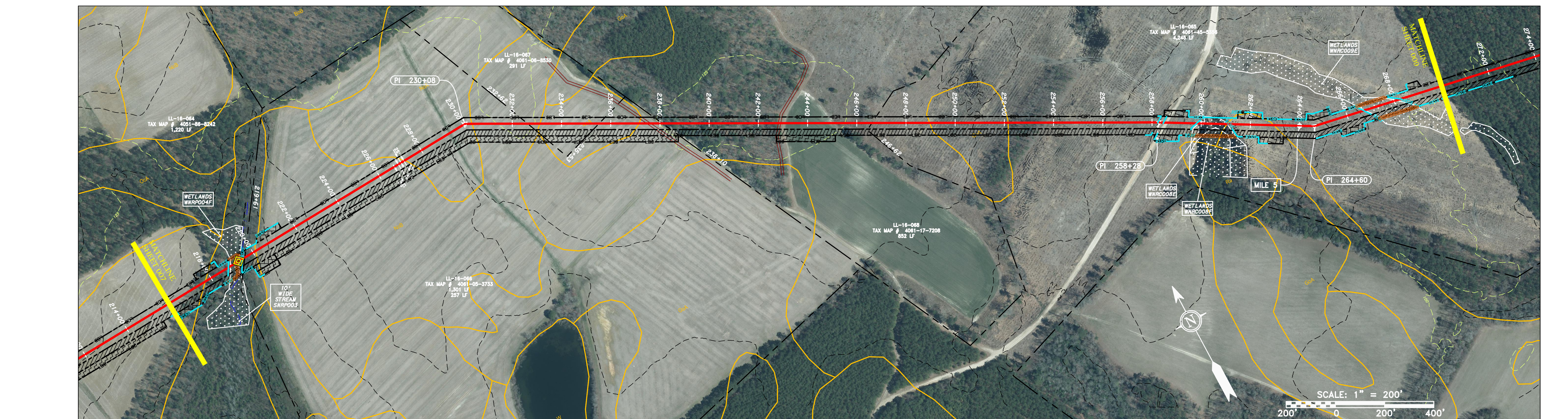
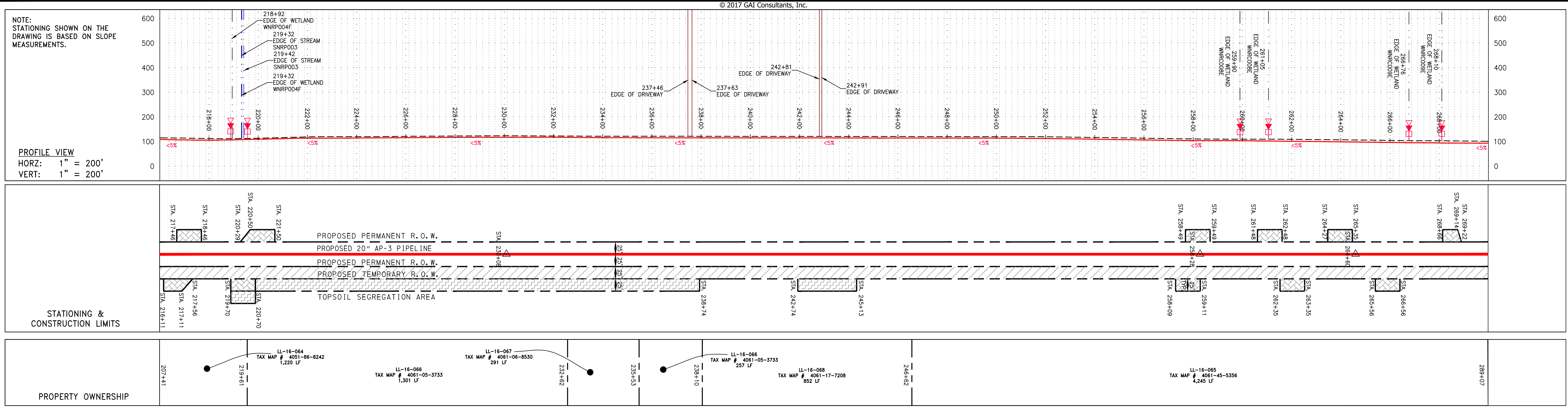
NOTES:

- 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 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 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.

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

THIS DRAWING WAS PRODUCED WITH COMPUTER AIDED DRAFTING TECHNOLOGY AND IS SUPPORTED BY ELECTRONIC DRAWING FILES. DO NOT REVISE THIS DRAWING VIA MANUAL DRAFTING METHODS.

J:\2665 -GAI WORK ORDER 06 - SOUTHEAST PIPELINE (SECTION 7)\3 - CAD DRAWINGS\ALIGNMENT SHEETS\2665-6 PLAN SHEETS (7-8).DWG



REVISIONS		DESCRIPTION
NO.	DATE	CHKD. APPD.

20" AP-3 PIPELINE
CONSTRUCTION ALIGNMENT STA 216+00 TO 270+00
 NORTHAMPTON COUNTY, NORTH CAROLINA

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

SCALE: AS SHOWN
 DATE: 6/5/17
 DRAWN: CLM
 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

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

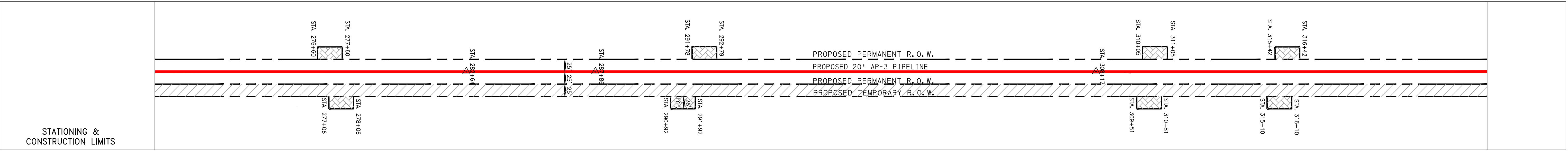
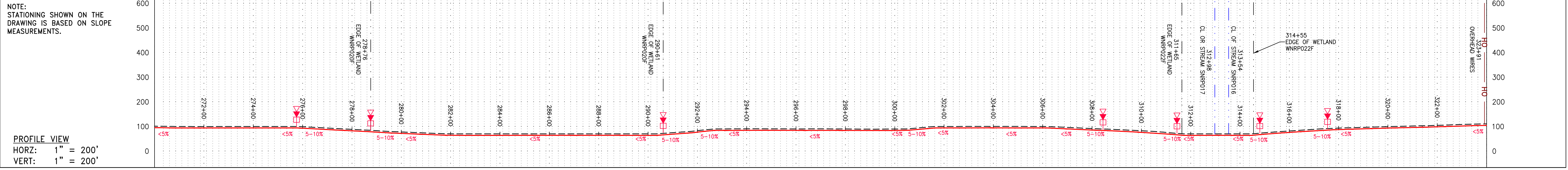
PROJECT NO./DASH NO.
 140468

TASK NO.	SUB TASK NO.
005	00

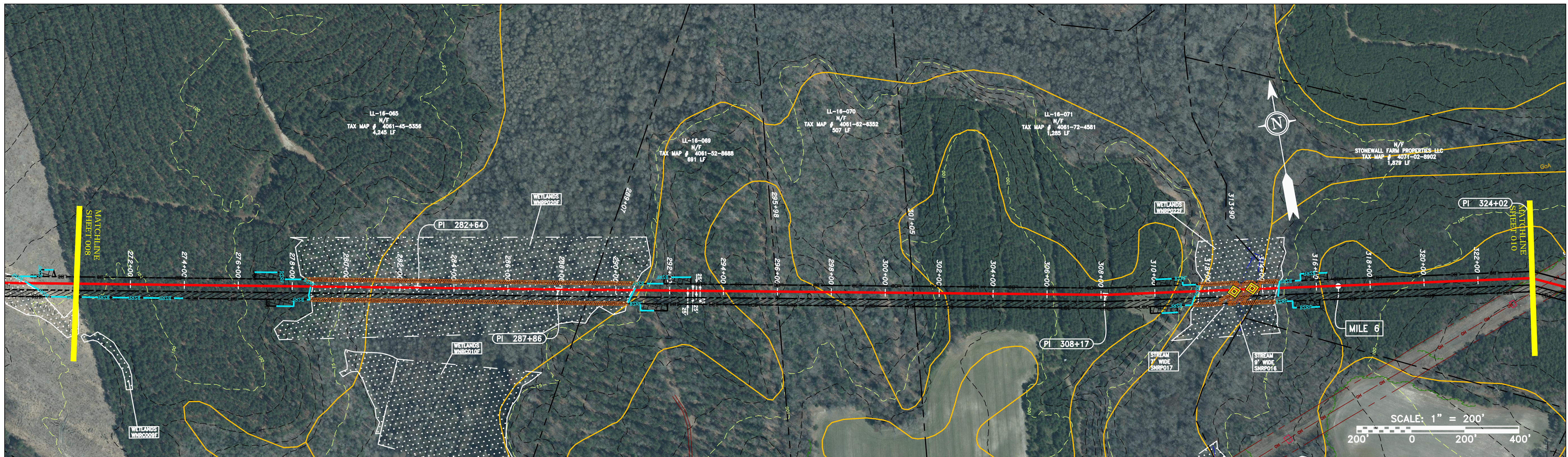
GROUP ID: D
 DRAWING NO.: E008

008 OF 84

6/5/2017 10:10 AM



PROPERTY OWNERSHIP table listing tax maps, acreage, and owner names for parcels along the pipeline alignment.



PIPE SPECIFICATION

STRING VIEW BAND and LEGEND section. Includes a string view band showing the pipeline profile and a detailed legend for symbols used in the drawing, such as property lines, fences, streams, wetlands, and various engineering features.

REVISIONS table with columns for NO., DATE, CHKD., and APPD., used for tracking design changes.

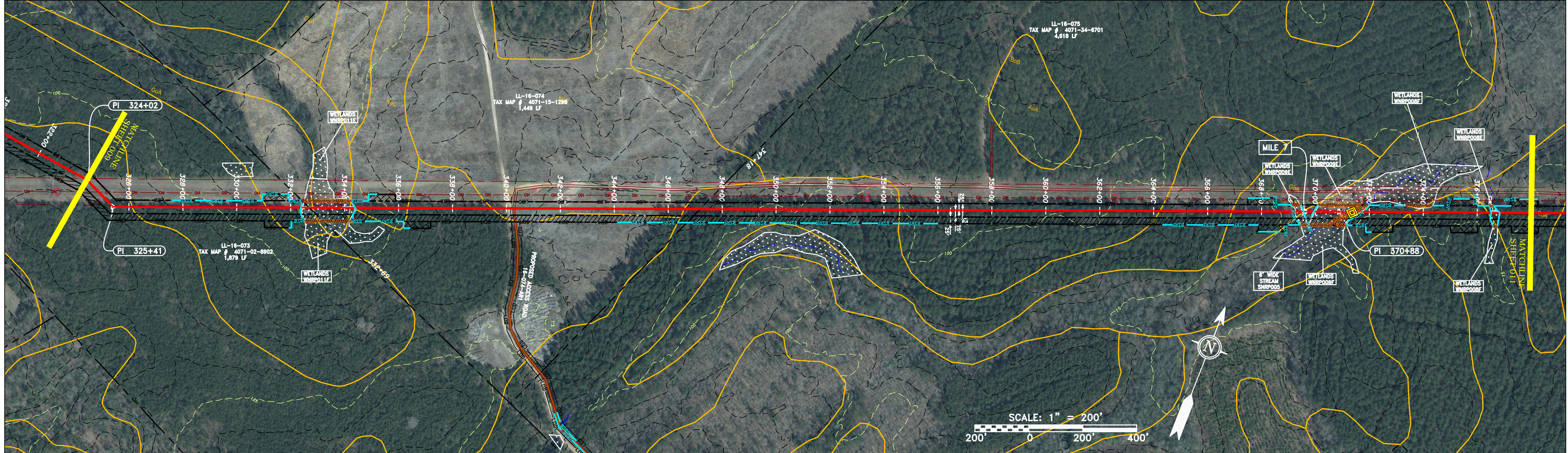
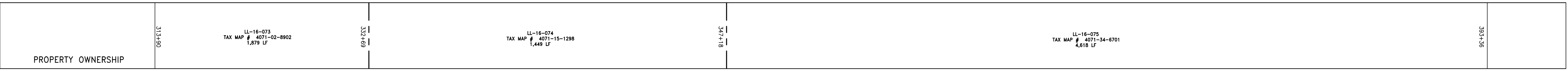
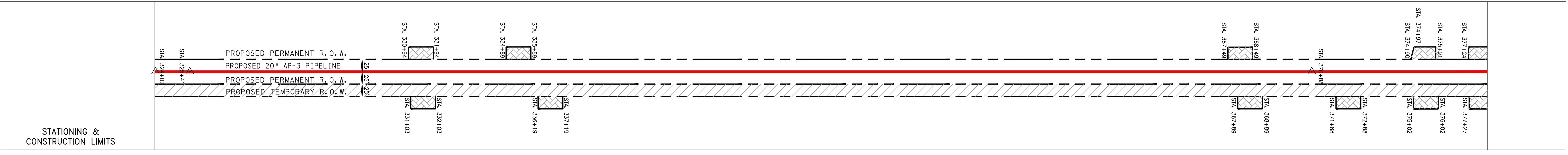
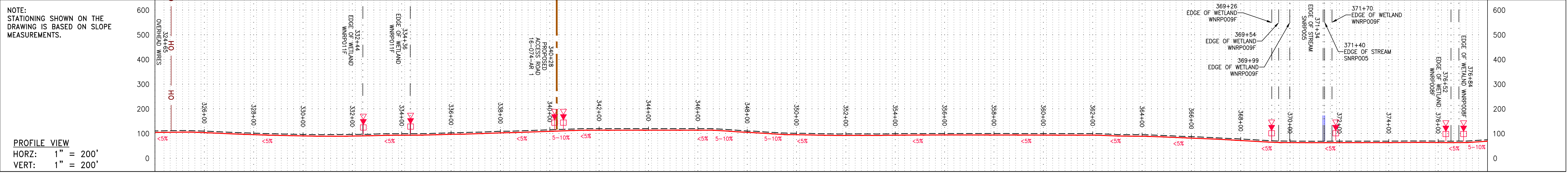
Project information block including the company logo (ERM), project name (20" AP-3 PIPELINE), construction alignment (STA 270+00 TO 324+00), and client information (ATLANTIC COAST PIPELINE, LLC).

Metadata table with fields for SCALE (AS SHOWN), DATE (6/5/17), DRAWN (NSD), CHECKED (DLH), and APPROVED (NET).

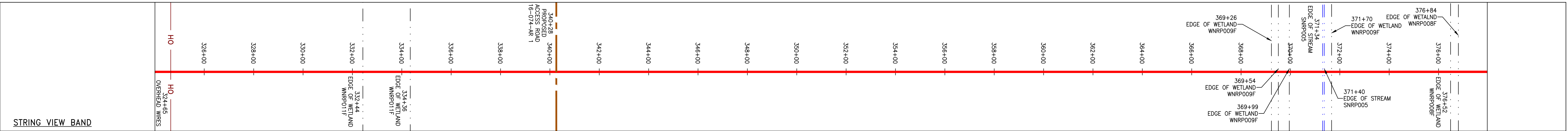
gai consultants - NC, inc. contact information: 4198 COX ROAD, SUITE 114, GLEN ALLEN, VA 23060.

mbe monaloh basin engineers logo and contact information: 300 BUSINESS CENTER DRIVE, PITTSBURGH, PA 15205.

Project identification table with fields for PROJECT NO./DASH NO. (140468), TASK NO. (005), SUB TASK NO. (00), GROUP ID (D), and DRAWING NO. (E009).



PIPE SPECIFICATION



LEGEND

—	PROPERTY LINE	—	STORM SEWER	—	LOD	—	LIMIT OF DISTURBANCE
X-X	FENCE	—	UNDERGROUND ELECTRIC	—	BSRF	—	BELTED SILT RETENTION FENCE (BSRF)
—	STREAM	—	WATER LINE	—	SSF	—	SUPER SILT FENCE
G-G	EXISTING GAS PIPELINE	—	SANITARY SEWER	—	111.03	—	COMPOST FILTER SOCK IDENTIFICATION
OH	OVERHEAD UTILITY LINES	—	EDGE OF GRAVEL	—	ORANGE SAFETY FENCE	—	ROADSIDE DITCH
—	ACCESS ROAD	—	PROPOSED PERMANENT EASEMENT	—	SOIL TYPE	—	TYPICAL BIC SLOPE CATEGORY SLOPE INCLINATION
—	PROPOSED GAS PIPELINE	—	PROPOSED GAS PIPELINE (NO GROUND SURVEY)	—	NOTE: THE PE SEAL AND SIGNATURE APPLIES ONLY TO THE E&S CONTROL SECTION 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.
- 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 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 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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REVISIONS			
NO.	DATE	CHKD.	APPROD.

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

20" AP-3 PIPELINE
 CONSTRUCTION ALIGNMENT STA 324+00 TO 378+00
 NORTHAMPTON COUNTY, NORTH CAROLINA

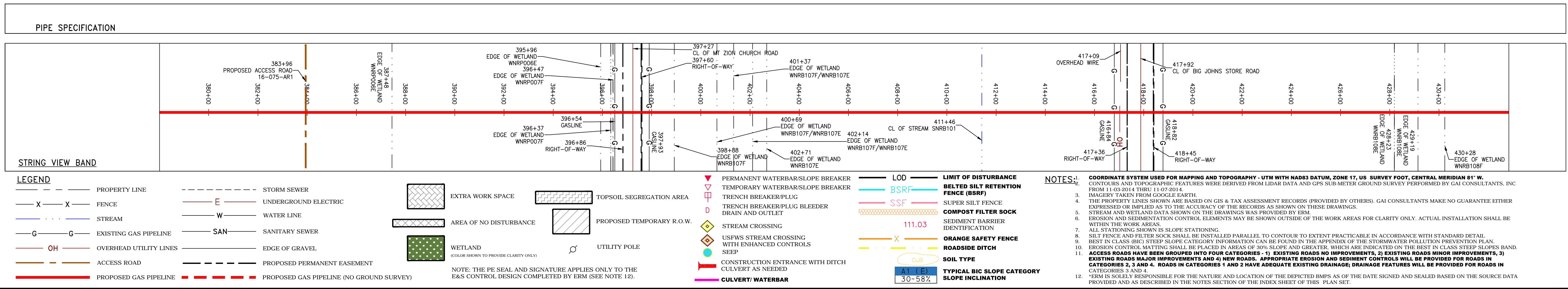
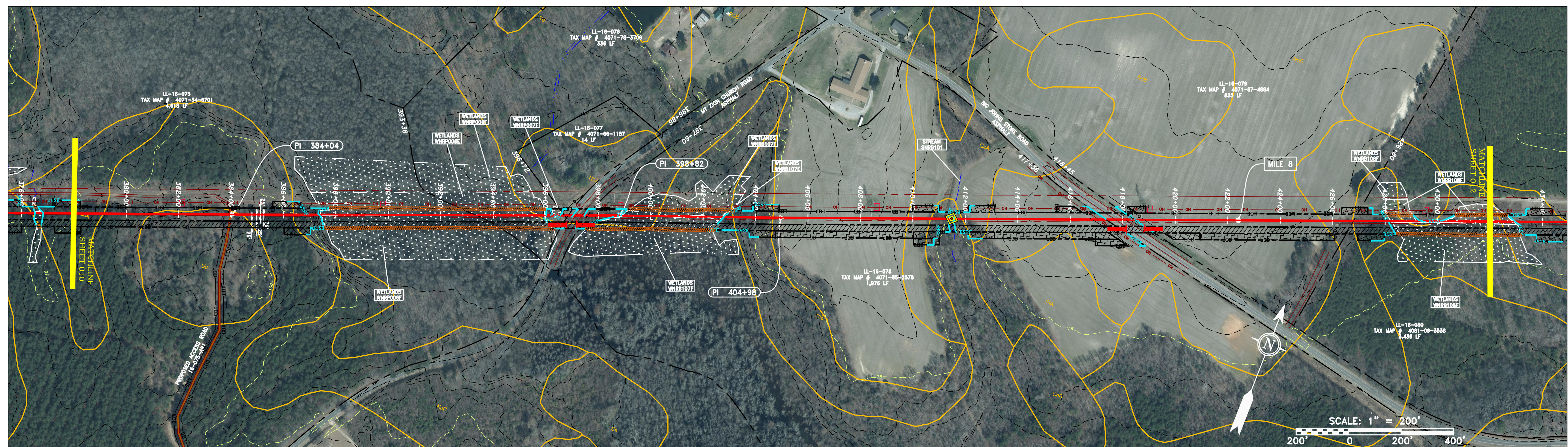
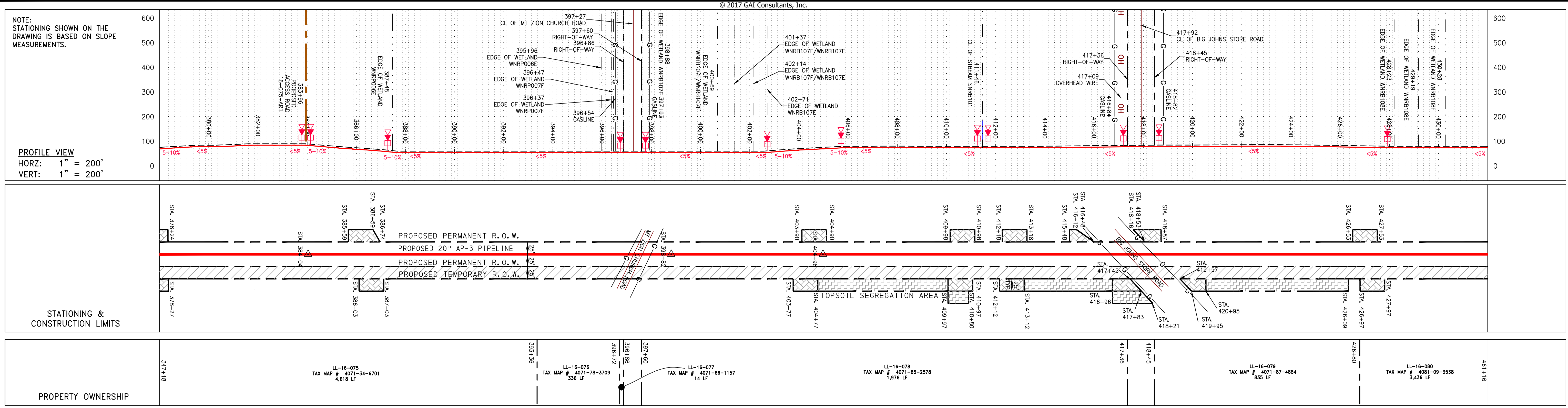
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 DATE: 6/5/17
 DRAWN: NSD
 CHECKED: DLH
 APPROVED: NET

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

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

PROJECT NO./DASH NO. 140468
 TASK NO. SUB TASK NO. 005 00
 GROUP ID DRAWING NO. D E010
 010 OF 84

6/5/2017 10:53 AM



REVISIONS			
NO.	DATE	CHKD.	DESCRIPTION

20" AP-3 PIPELINE
CONSTRUCTION ALIGNMENT STA 378+00 TO 432+00
 NORTHAMPTON COUNTY, NORTH CAROLINA

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

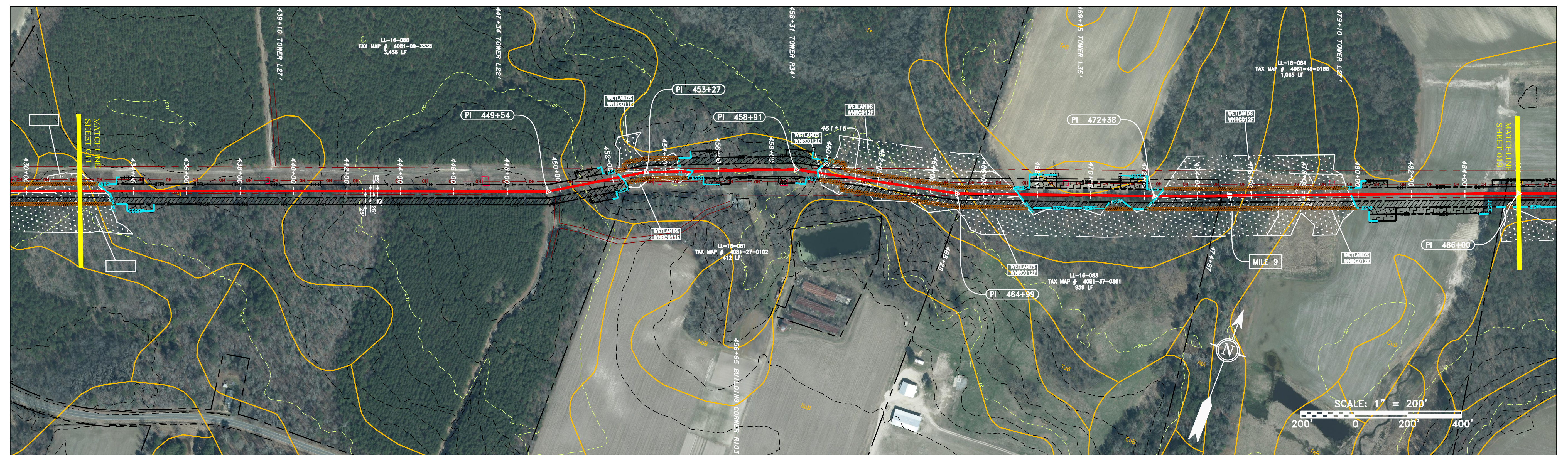
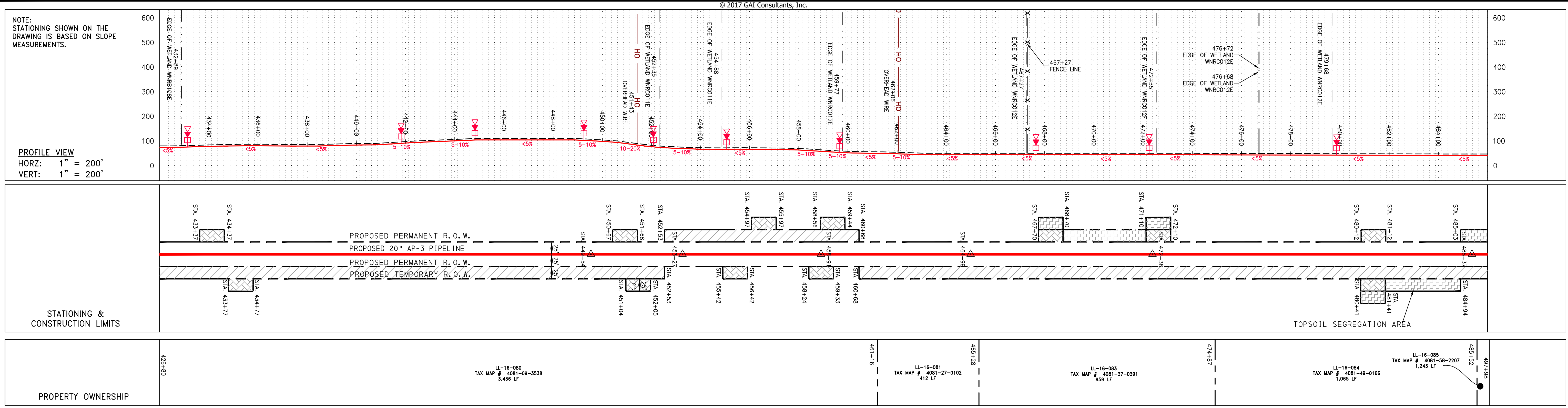
SCALE: AS SHOWN
 DATE: 6/5/17
 DRAWN: NSD
 CHECKED: DLH
 APPROVED: NET

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

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

PROJECT NO./DASH NO.	140468
TASK NO.	005
SUB TASK NO.	00
GROUP ID	D
DRAWING NO.	E011
011 OF 84	

6/5/2017 11:03 AM



PIPE SPECIFICATION

STRING VIEW BAND

LEGEND

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

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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THIS DRAWING WAS PRODUCED WITH COMPUTER AIDED DRAFTING TECHNOLOGY AND IS SUPPORTED BY ELECTRONIC DRAWING FILES. DO NOT REVISE THIS DRAWING VIA MANUAL DRAFTING METHODS.

REVISIONS

NO.	DATE	BY	CHKD.	APPROV.	DESCRIPTION

ERM

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

CONSTRUCTION ALIGNMENT STA 432+00 TO 486+00
 NORTHAMPTON COUNTY, NORTH CAROLINA

SCALE: AS SHOWN
 DATE: 6/5/17
 DRAWN: NSD
 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

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

PROJECT NO./DASH NO.
140468

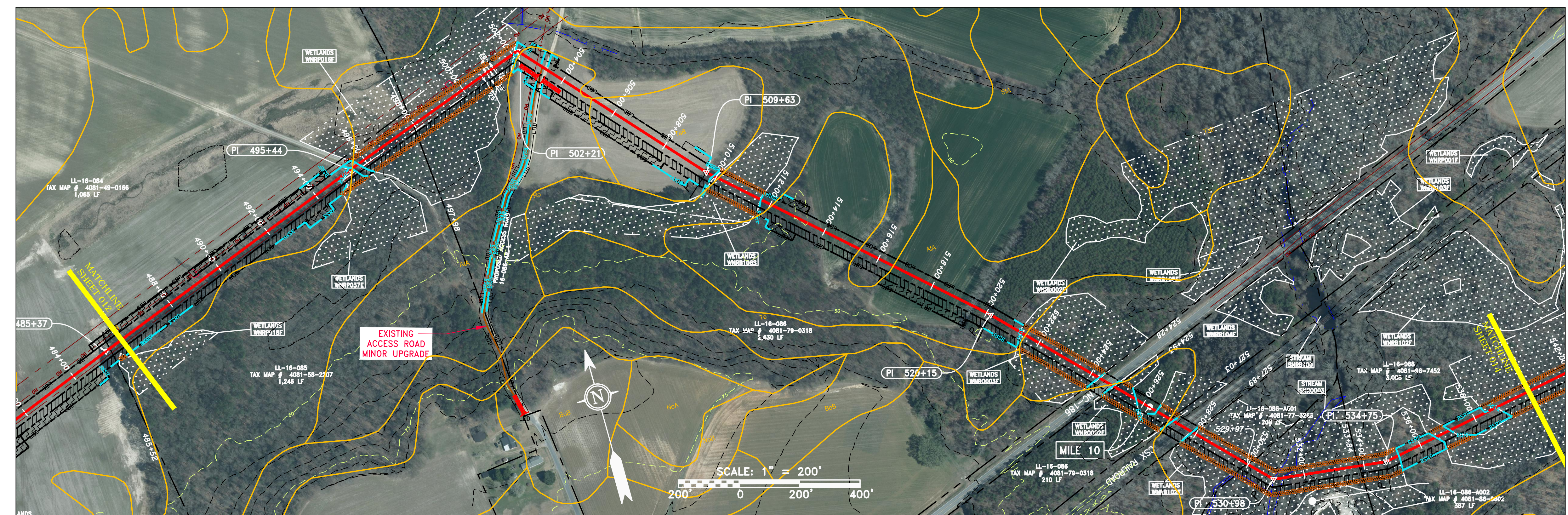
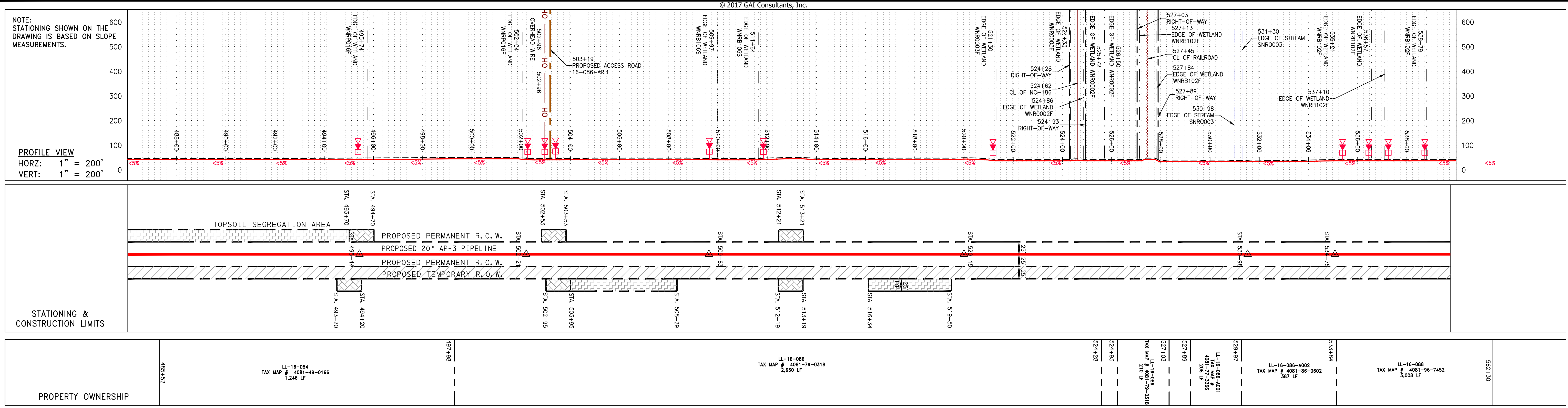
TASK NO.	SUB TASK NO.
005	00

GROUP ID: D DRAWING NO.: E012

012 OF 84

6/5/2017 12:59 PM

J:\2665 -GAI WORK ORDER 06 - SOUTHEAST PIPELINE (SECTION 7)\3 - CAD DRAWINGS\ALIGNMENT SHEETS\E & S_REV.12_SHEETS & XREF\2665-6 PLAN SHEETS (12-14).DWG



PIPE SPECIFICATION

STRING VIEW BAND

LEGEND

—	PROPERTY LINE	—	STORM SEWER	▨	EXTRA WORK SPACE	▨	TOPSOIL SEGREGATION AREA	▨	LOD	▨	LIMIT OF DISTURBANCE
X—X	FENCE	E	UNDERGROUND ELECTRIC	▨	AREA OF NO DISTURBANCE	▨	PROPOSED TEMPORARY R.O.W.	▨	BSRF	▨	BELTED SILT RETENTION FENCE (BSRF)
—	STREAM	W	WATER LINE	▨	WETLAND	▨	UTILITY POLE	▨	SSF	▨	SUPER SILT FENCE
G—G	EXISTING GAS PIPELINE	SAN	SANITARY SEWER	▨	WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)	▨	PROPOSED PERMANENT R.O.W.	▨	111.03	▨	COMPOST FILTER SOCK
OH	OVERHEAD UTILITY LINES	—	EDGE OF GRAVEL	▨	WETLAND	▨	PROPOSED PERMANENT R.O.W.	▨	ORANGE SAFETY FENCE	▨	SEDIMENT BARRIER IDENTIFICATION
—	ACCESS ROAD	—	PROPOSED PERMANENT EASEMENT	▨	WETLAND	▨	PROPOSED PERMANENT R.O.W.	▨	ROADSIDE DITCH	▨	SOIL TYPE
—	PROPOSED GAS PIPELINE	—	PROPOSED PERMANENT R.O.W. (NO GROUND SURVEY)	▨	WETLAND	▨	PROPOSED PERMANENT R.O.W.	▨	SOIL TYPE	▨	SOIL TYPE

NOTES:

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REVISIONS

NO.	DATE	CHKD.	APPD.	DESCRIPTION

ERM

20" AP-3 PIPELINE
CONSTRUCTION ALIGNMENT STA 486+00 TO 540+00
 NORTHAMPTON COUNTY, NORTH CAROLINA

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

SCALE: AS SHOWN
 DATE: 6/6/17
 DRAWN: JMS
 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

mbe
monaloh basin
engineers

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

PROJECT NO./DASH NO.
140468

TASK NO. SUB TASK NO.
005 00

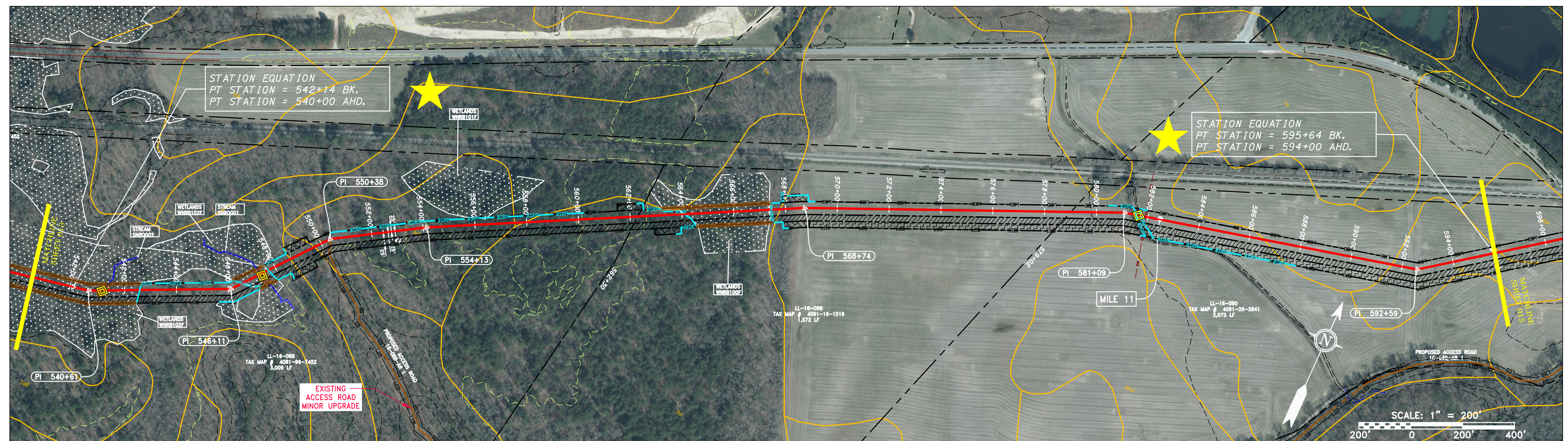
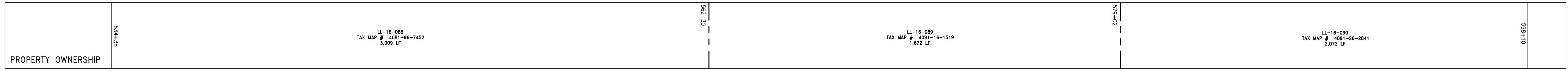
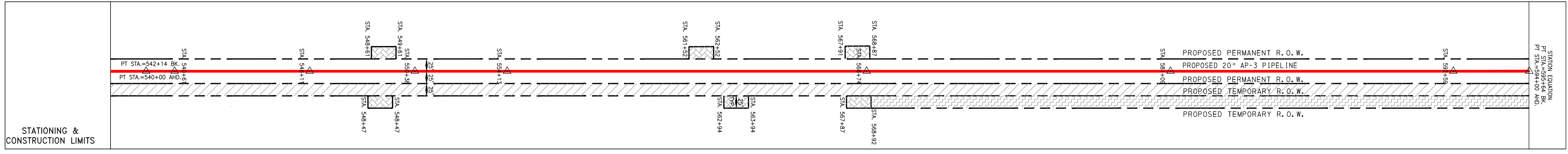
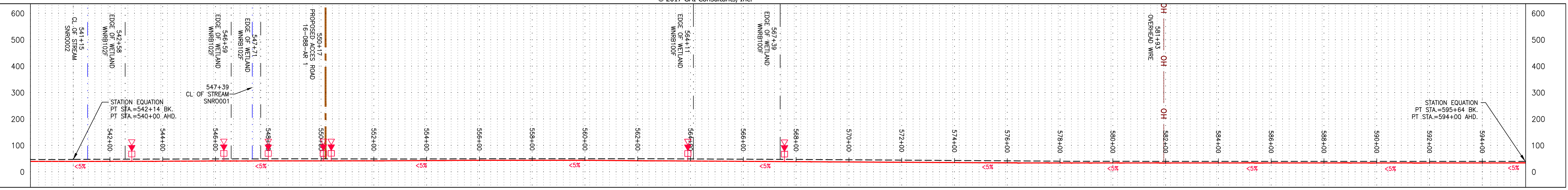
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013 OF 84

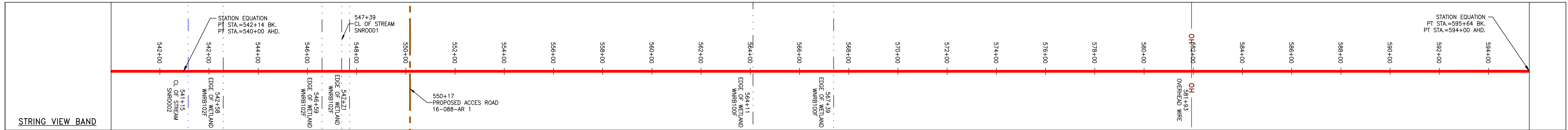
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NOTE:
STATIONING SHOWN ON
THIS DRAWING IS BASED
ON SLOPE MEASUREMENTS.

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



PIPE SPECIFICATION



<p>LEGEND</p> <ul style="list-style-type: none"> — PROPERTY LINE X X FENCE G G EXISTING GAS PIPELINE OH OH OVERHEAD UTILITY LINES — ACCESS ROAD — PROPOSED GAS PIPELINE - - - STORM SEWER - - - UNDERGROUND ELECTRIC - - - WATER LINE - - - SANITARY SEWER - - - EDGE OF GRAVEL - - - PROPOSED PERMANENT EASEMENT - - - PROPOSED PERMANENT R.O.W. - - - PROPOSED TEMPORARY R.O.W. □ EXTRA WORK SPACE □ AREA OF NO DISTURBANCE □ WETLAND □ TOPSOIL SEGREGATION AREA □ PROPOSED TEMPORARY R.O.W. □ UTILITY POLE ▲ PERMANENT WATERBAR/SLOPE BREAKER ▲ TEMPORARY WATERBAR/SLOPE BREAKER ▲ TRENCH BREAKER/PLUG ▲ TRENCH BREAKER/PLUG BLEEDER ▲ DRAIN AND OUTLET ▲ STREAM CROSSING ▲ USFWS STREAM CROSSING WITH ENHANCED CONTROLS ▲ SEEP ▲ CONSTRUCTION ENTRANCE WITH DITCH ▲ CULVERT/ WATERBAR — LOD — BELTED SILT RETENTION FENCE (BSRF) — SUPER SILT FENCE — COMPOST FILTER SOCK — SEDIMENT BARRIER IDENTIFICATION — ORANGE SAFETY FENCE — ROADSIDE DITCH — SOIL TYPE — TYPICAL BIC SLOPE CATEGORY — SLOPE INCLINATION 	<p>NOTES:</p> <ol style="list-style-type: none"> COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY - UTM WITH NAD83 DATUM, ZONE 17, US SURVEY FOOT, CENTRAL MERIDIAN 81° W. CONTOURS AND TOPOGRAPHIC FEATURES WERE DERIVED FROM LIDAR DATA AND GPS SUB-METER GROUND SURVEY PERFORMED BY GAI CONSULTANTS, INC. FROM 11-03-2014 THRU 11-07-2014. IMAGERY TAKEN FROM GOOGLE EARTH. THE PROPERTY LINES SHOWN ARE BASED ON GIS & TAX ASSESSMENT RECORDS (PROVIDED BY OTHERS). GAI CONSULTANTS MAKE NO GUARANTEE EITHER EXPRESSED OR IMPLIED AS TO THE ACCURACY OF THE RECORDS AS SHOWN ON THESE DRAWINGS. STREAM AND WETLAND DATA SHOWN ON THE DRAWINGS WAS PROVIDED BY ERM. EROSION AND SEDIMENTATION CONTROL ELEMENTS MAY BE SHOWN OUTSIDE OF THE WORK AREAS FOR CLARITY ONLY. ACTUAL INSTALLATION SHALL BE WITHIN THE WORK AREAS. ALL STATIONING SHOWN IS SLOPE STATIONING. SILT FENCE AND FILTER SOCK SHALL BE INSTALLED PARALLEL TO CONTOUR TO EXTENT PRACTICABLE IN ACCORDANCE WITH STANDARD DETAIL. BEST IN CLASS (BIC) STEEP SLOPE 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 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.
--	---

REVISIONS	
NO.	DESCRIPTION

20" AP-3 PIPELINE
CONSTRUCTION ALIGNMENT STA 540+00 TO 594+00
NORTHAMPTON COUNTY, NORTH CAROLINA

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

SCALE: AS SHOWN
DATE: 6/5/17
DRAWN: GOS
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

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

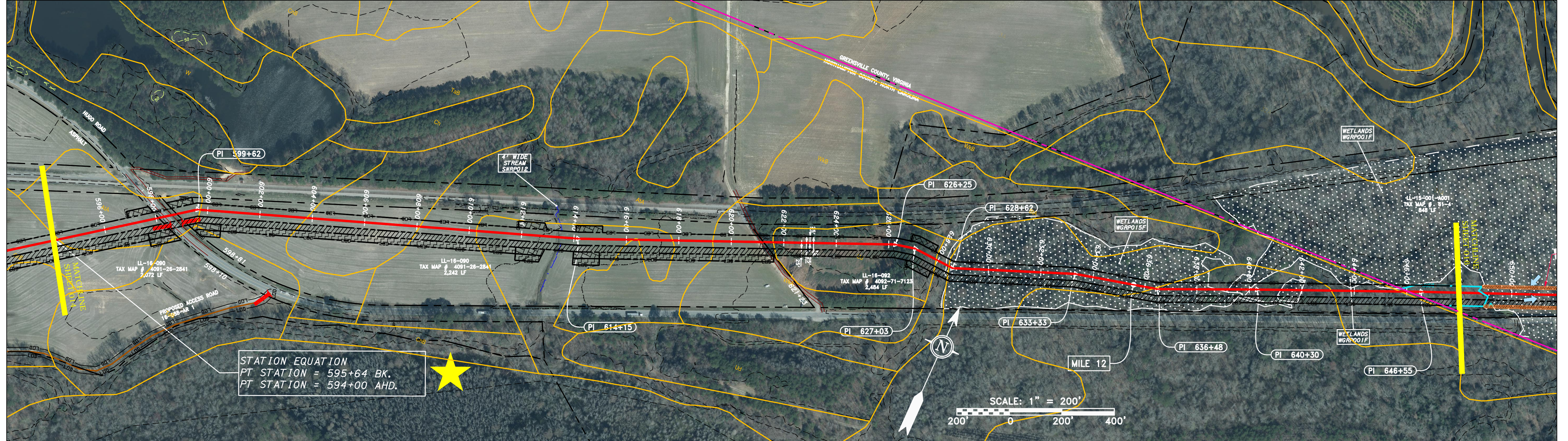
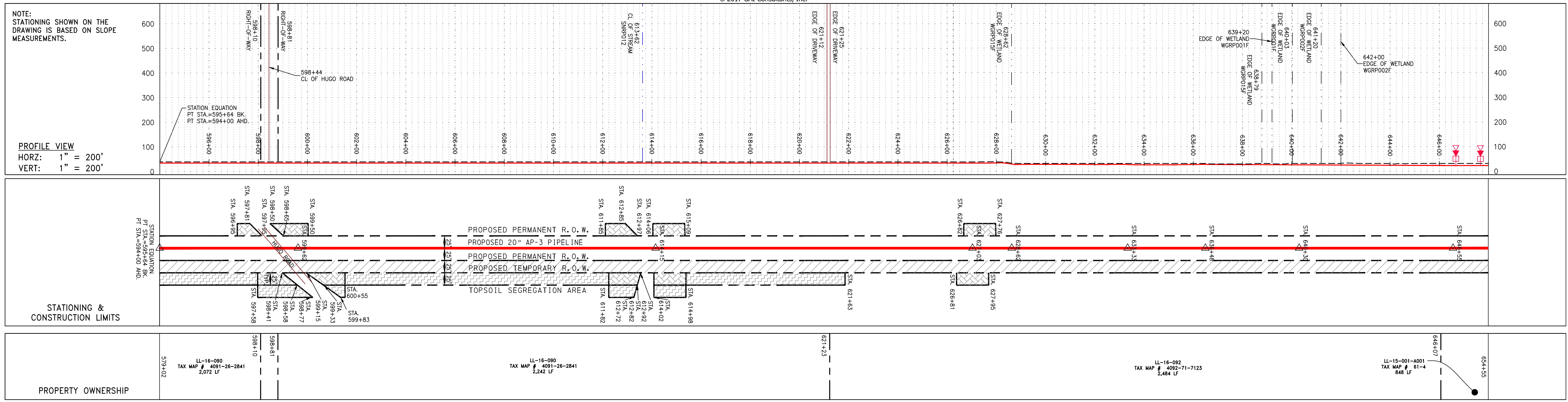
PROJECT NO./DASH NO.
140468

TASK NO.	SUB TASK NO.
005	00

GROUP ID: D DRAWING NO.: E014

014 OF 84

6/5/2017 1:12 PM



PIPE SPECIFICATION

STRING VIEW BAND

LEGEND

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

NOTES:

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REVISIONS			
NO.	DATE	CHKD.	APPROV.

20" AP-3 PIPELINE
CONSTRUCTION ALIGNMENT STA 594+00 TO 648+00
 NORTHAMPTON COUNTY, NORTH CAROLINA
 & GREENSVILLE COUNTY, VIRGINIA

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

SCALE: AS SHOWN
 DATE: 6/5/17
 DRAWN: JMS
 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

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

PROJECT NO./DASH NO.
140468

TASK NO.	SUB TASK NO.
005	00

GROUP ID: D DRAWING NO.: E015

015 OF 84

6/5/2017 1:36 PM