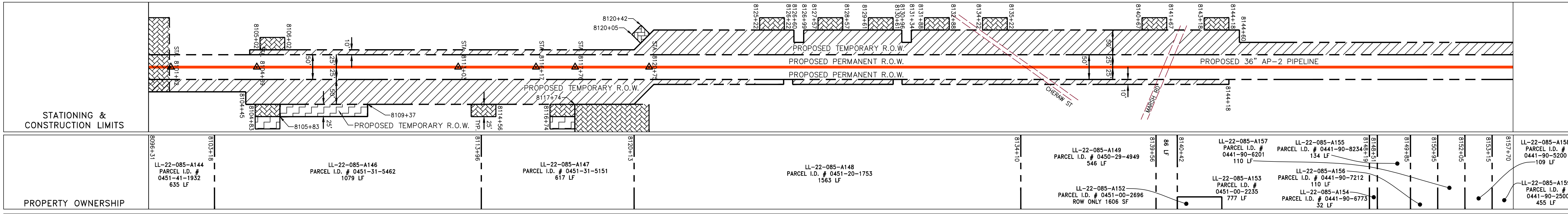
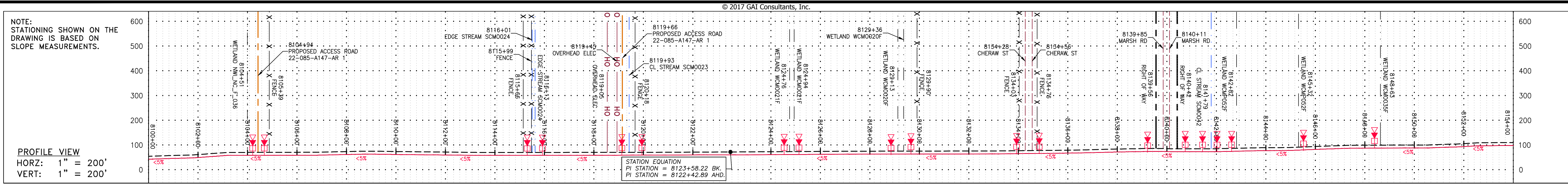
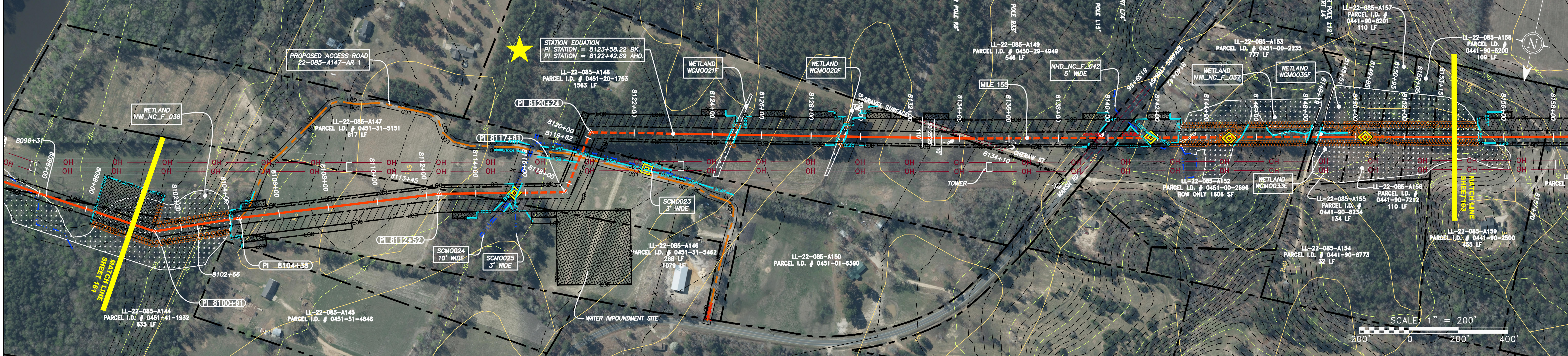


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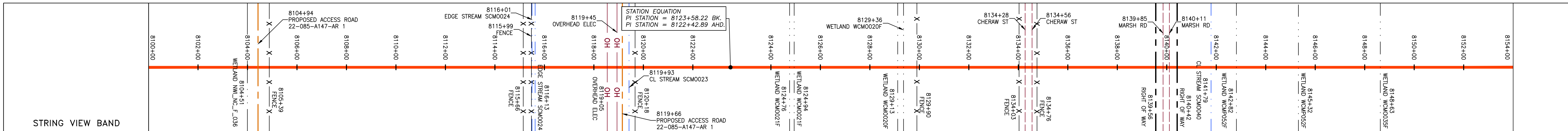
PROPERTY OWNERSHIP

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PIPE SPECIFICATION

8100+00	8102+00	8104+00	8106+00	8108+00	8110+00	8112+00	8114+00	8116+00	8118+00	8120+00	8122+00	8124+00	8126+00	8128+00	8130+00	8132+00	8134+00	8136+00	8138+00	8140+00	8142+00	8144+00	8146+00	8148+00	8150+00	8152+00	8154+00
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**LEGEND**

PROPERTY LINE	UNDERGROUND ELECTRIC	EXTRA WORK SPACE	TOPSOIL SEGREGATION AREA	PERMANENT WATERBAR/SLOPE BREAKER	LIMIT OF DISTURBANCE
FENCE	WATER LINE	AREA OF NO DISTURBANCE	PROPOSED TEMPORARY R.O.W.	TEMPORARY WATERBAR/SLOPE BREAKER	BELTED SILT RETENTION FENCE (BSRF)
STREAM	SANITARY SEWER	WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)	UTILITY POLE	TRENCH BREAKER/PLUG	COIR LOG
EXISTING GAS PIPELINE	EDGE OF GRAVEL			STREAM CROSSING	COMPOST FILTER SOCK
OVERHEAD UTILITY LINES	PROPOSED PERMANENT EASEMENT			USFWS STREAM CROSSING WITH ENHANCED CONTROLS	ORANGE SAFETY FENCE
ACCESS ROAD	PROPOSED GAS PIPELINE (NO GROUND SURVEY)			CONSTRUCTION ENTRANCE WITH DITCH	ROADSIDE DITCH
PROPOSED GAS PIPELINE				CULVERT WATERBAR	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.
  - 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 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.
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NO.	DATE	DWN.	CHKD.	APPD.	DESCRIPTION

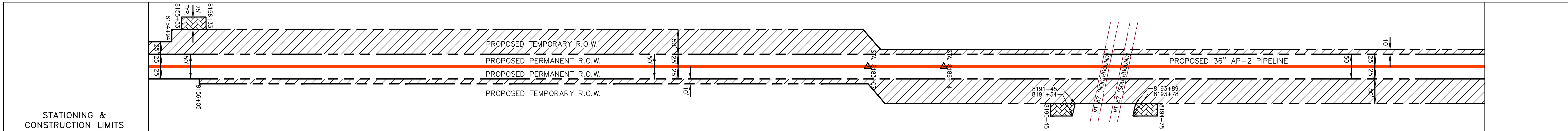
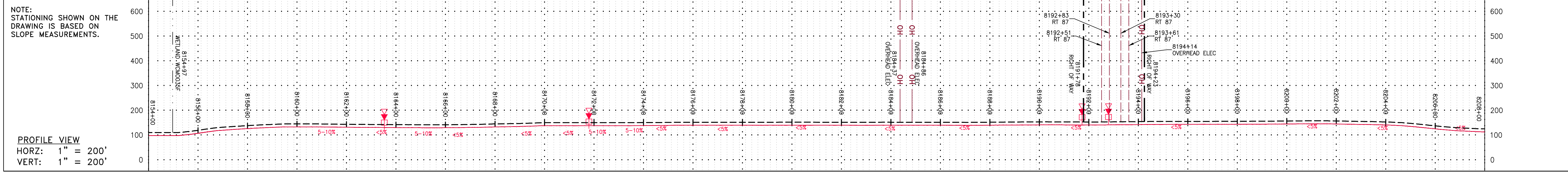
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TASK NO. SUB TASK NO. **005 00**

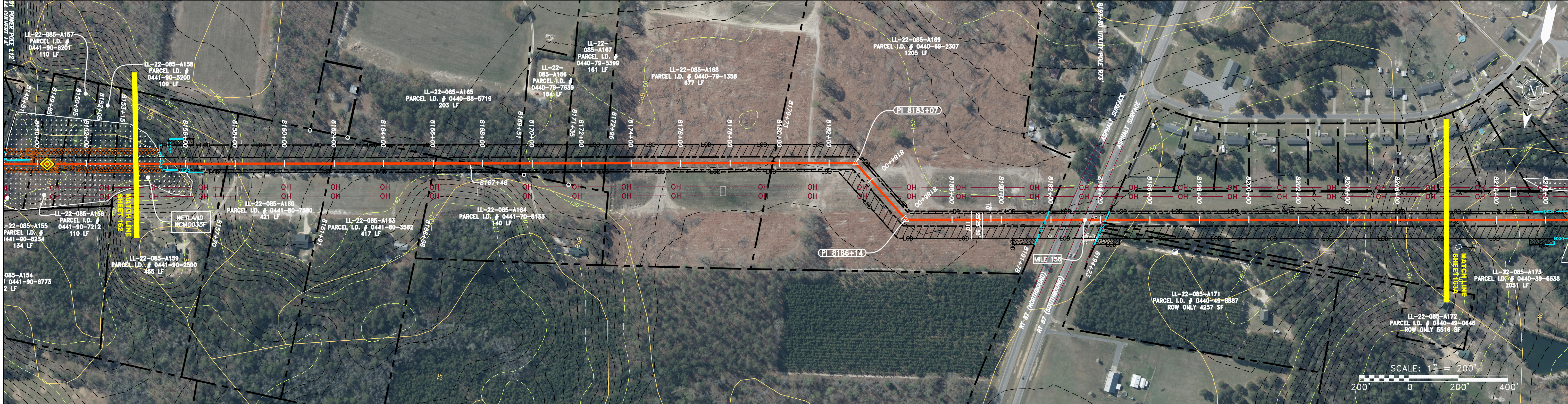
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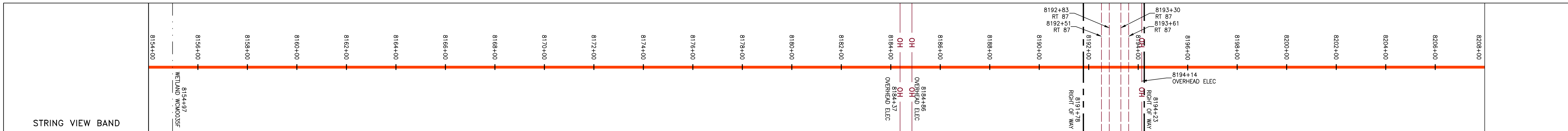




Stationing	Parcel ID	Area (LF)
8154+00	LL-22-085-A159	455 LF
8159+00	LL-22-085-A160	421 LF
8164+00	LL-22-085-A163	417 LF
8169+00	LL-22-085-A165	203 LF
8174+00	LL-22-085-A166	184 LF
8179+00	LL-22-085-A167	161 LF
8184+00	LL-22-085-A168	677 LF
8189+00	LL-22-085-A169	1205 LF
8194+00	LL-22-085-A171	4257 SF
8199+00	LL-22-085-A173	2051 LF
8204+00	LL-22-085-A172	5516 SF
8208+00		



Stationing	Parcel ID	Area (LF)
8154+00	LL-22-085-A157	110 LF
8159+00	LL-22-085-A158	109 LF
8164+00	LL-22-085-A159	455 LF
8169+00	LL-22-085-A160	421 LF
8174+00	LL-22-085-A163	417 LF
8179+00	LL-22-085-A165	203 LF
8184+00	LL-22-085-A166	184 LF
8189+00	LL-22-085-A167	161 LF
8194+00	LL-22-085-A168	677 LF
8199+00	LL-22-085-A169	1205 LF
8204+00	LL-22-085-A171	4257 SF
8208+00	LL-22-085-A173	2051 LF



LEGEND	
— X — X —	PROPERTY LINE
— — — — —	FENCE
— — — — —	STREAM
— G — G —	EXISTING GAS PIPELINE
— OH —	OVERHEAD UTILITY LINES
— — — — —	ACCESS ROAD
— — — — —	PROPOSED GAS PIPELINE
— — — — —	PROPOSED GAS PIPELINE (NO GROUND SURVEY)
— — — — —	UNDERGROUND ELECTRIC
— W —	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
— — — — —	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:**

- 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	CHKD.	APPD.	DESCRIPTION

**36" AP-2 PIPELINE**  
**CONSTRUCTION ALIGNMENT STA 8154+00 TO 8208+00**  
 CUMBERLAND 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

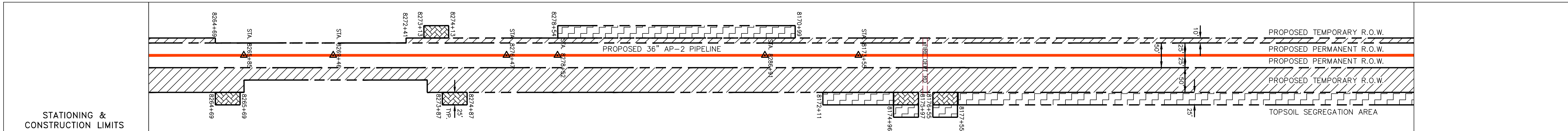
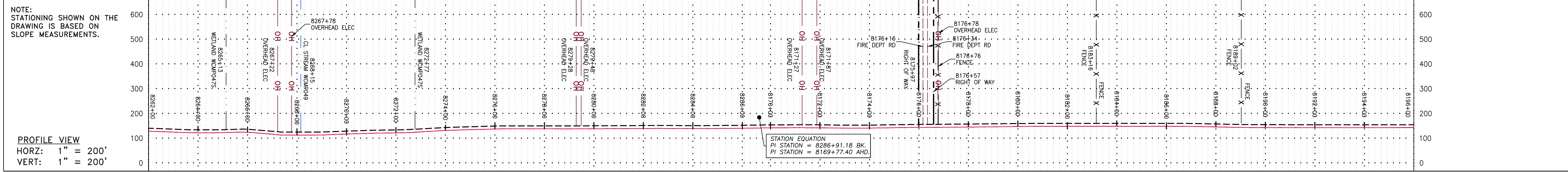
gai consultants - NC, inc.  
 4198 COX ROAD  
 SUITE 114  
 GLEN ALLEN, VA 23060  
 804-270-9357  
 N.C. COL #0269

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TASK NO. SUB TASK NO.	005 00
GROUP ID DRAWING NO.	D E163
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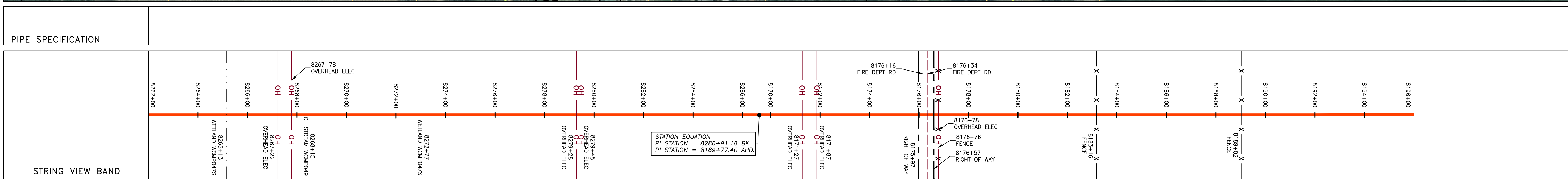
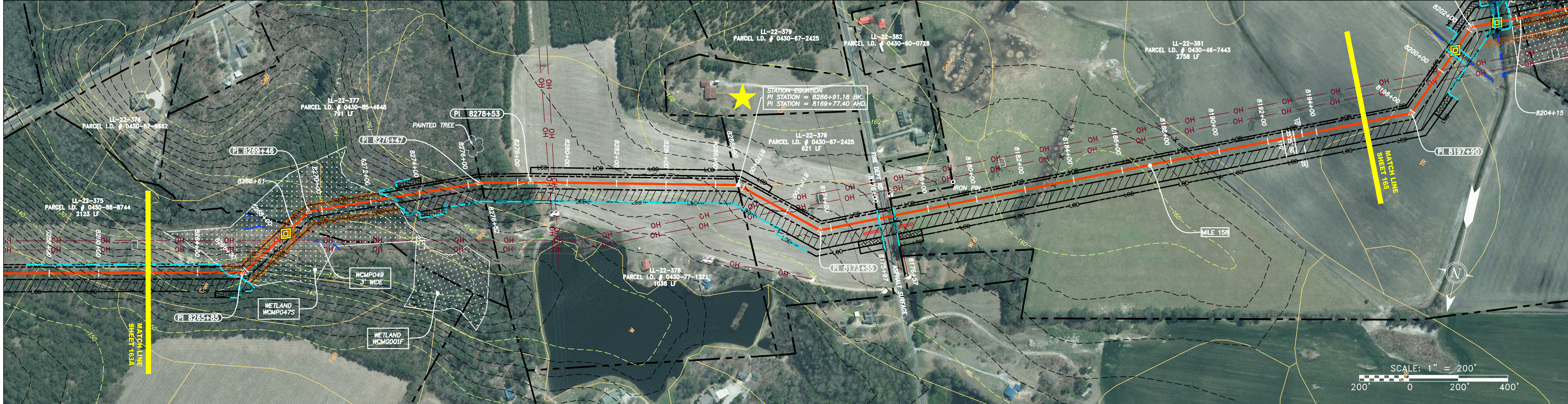








PROPERTY OWNERSHIP	STATIONING & CONSTRUCTION LIMITS
LL-22-375 PARCEL I.D. # 0430-88-8744 2123 LF	8274+38
LL-22-377 PARCEL I.D. # 0430-85-4648 791 LF	8288+61
LL-22-378 PARCEL I.D. # 0430-77-1321 1038 LF	8278+52
LL-22-379 PARCEL I.D. # 0430-67-2425 621 LF	8288+90
LL-22-381 PARCEL I.D. # 0430-46-7443 2758 LF	8174+55
	8204+15



### LEGEND

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

**36" AP-2 PIPELINE**  
**CONSTRUCTION ALIGNMENT STA 8262+00 TO 8199+00**  
 CUMBERLAND 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.

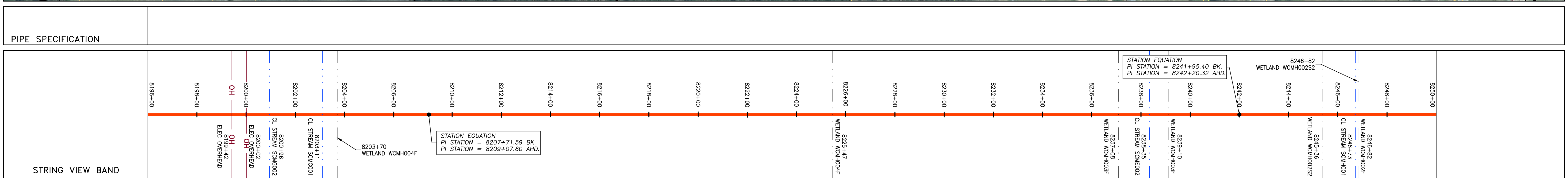
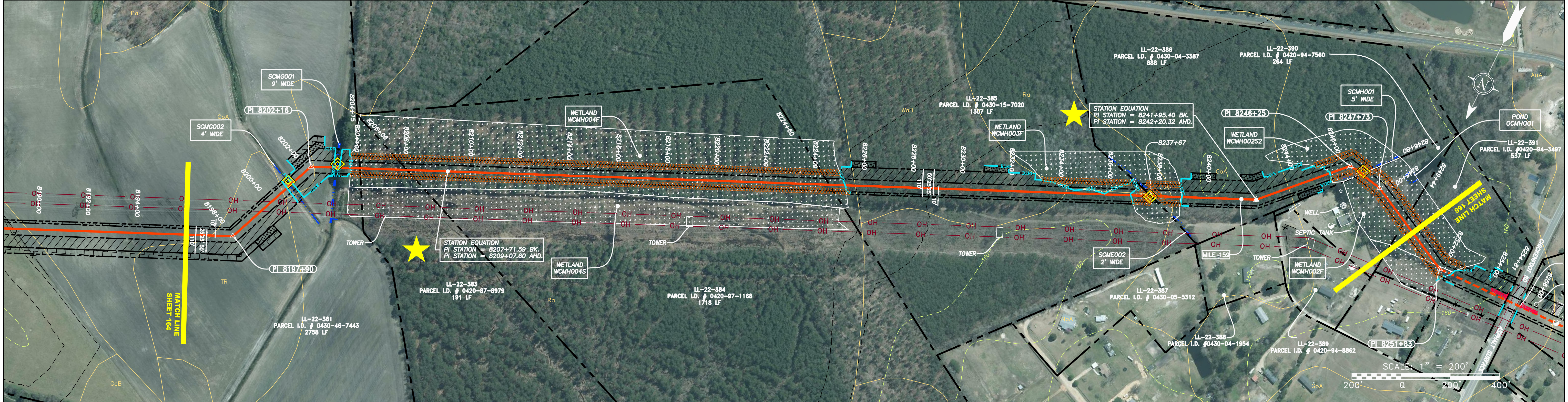
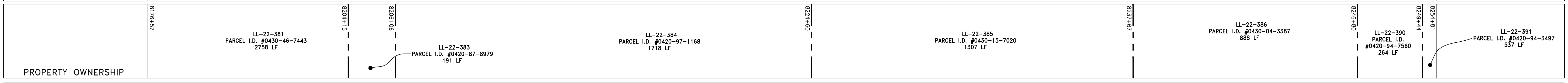
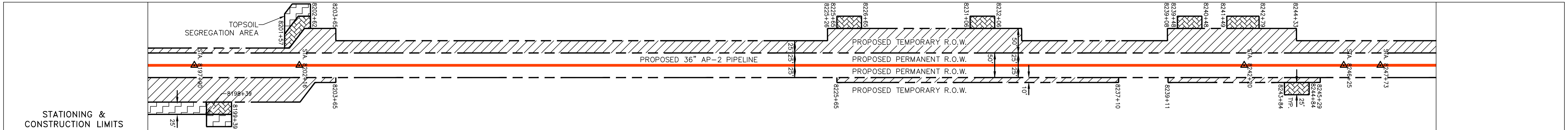
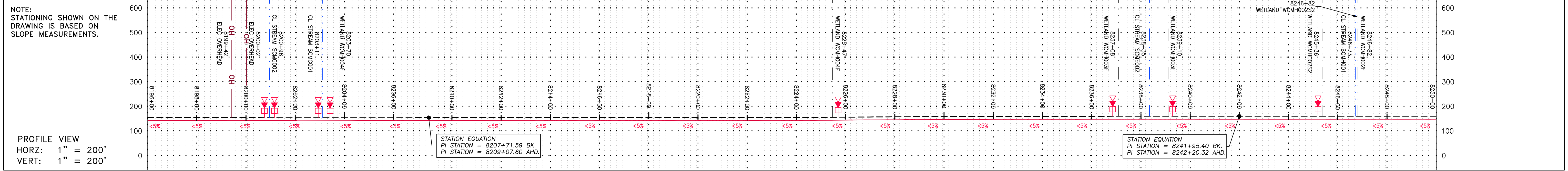
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 SUITE 114  
 GLEN ALLEN, VA 23060  
 804-270-9357  
 N.C. COL #P-0269

PROJECT NO./DASH NO.	140468
TASK NO. SUB TASK NO.	005 00
GROUP ID DRAWING NO.	D E164
164 OF 189	



GAI CAD FILE NO. \NTG-FS1\THRASHER\050-5159 - GIA, INC. - GAI - THRASHER - SERP - MAPPING\SURVEY\DRAWING\RESTORED SHEETS 1-13-17\SEC 11\FULL SET\SHEETS 165-166 REV 12.DWG

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**LEGEND**

— X — X —	PROPERTY LINE	— F — F —	FENCE	— S — S —	STREAM	— G — G —	EXISTING GAS PIPELINE	— OH —	OVERHEAD UTILITY LINES	— A — A —	ACCESS ROAD	— P — P —	PROPOSED GAS PIPELINE	— W — W —	UNDERGROUND ELECTRIC	— W — W —	WATER LINE	— S — S —	SANITARY SEWER	— E — E —	EDGE OF GRAVEL	— P — P —	PROPOSED PERMANENT EASEMENT	— P — P —	PROPOSED GAS PIPELINE (NO GROUND SURVEY)																		
—	EXTRA WORK SPACE	—	TOPSOIL SEGREGATION AREA	—	AREA OF NO DISTURBANCE	—	PROPOSED TEMPORARY R.O.W.	—	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	—	LIMIT OF DISTURBANCE	—	BSRF	—	BELTED SILT RETENTION FENCE (BSRF)	—	COIR LOG	—	COMPOST FILTER SOCK	—	ORANGE SAFETY FENCE	—	ROADSIDE DITCH	—	CuB	—	SOIL TYPE

**NOTES:**

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

REVISIONS		DESCRIPTION
NO.	DATE	DWN.
CHKD.	APPD.	

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

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 GROUP ID DRAWING NO. D E165  
 165 OF 189



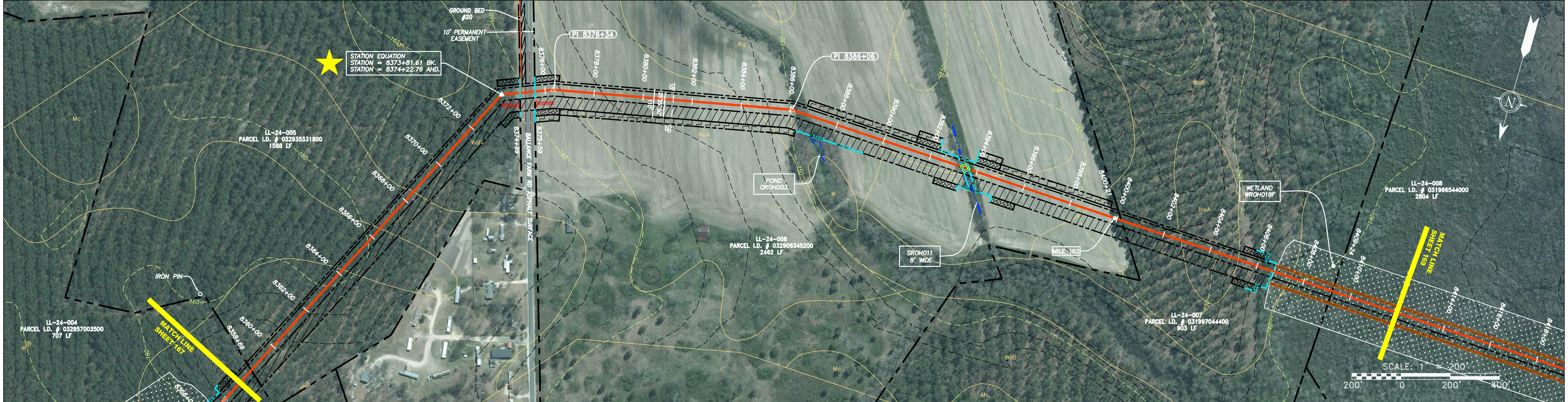
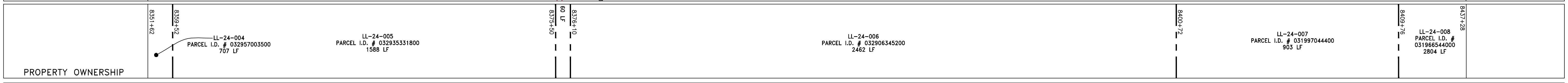
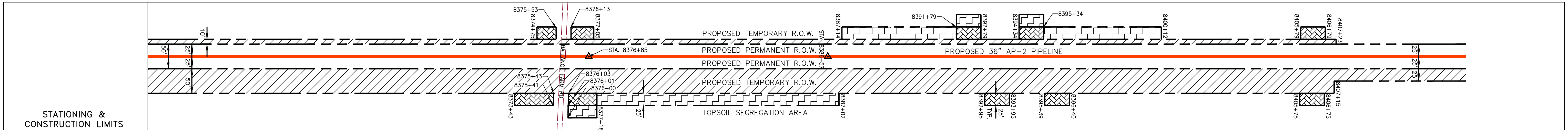
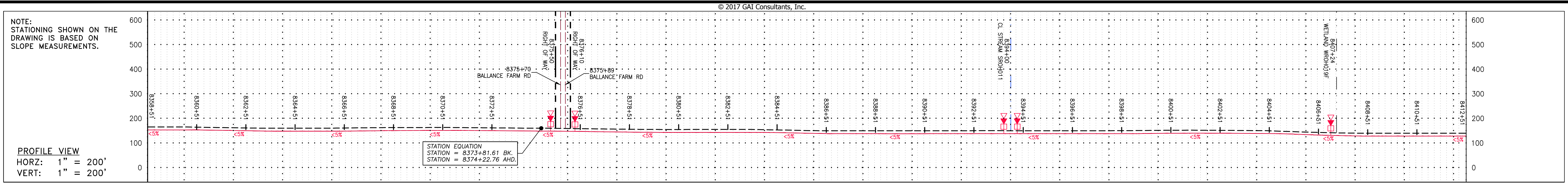




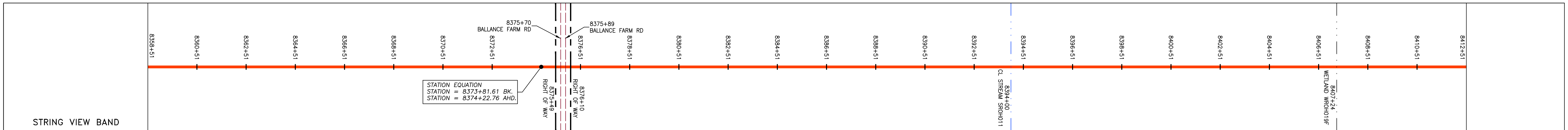




GAI CAD FILE NO. R:\050-5159 - GAI - THRASHER - SERP - MAPPING\SURVEY DRAWING\SEC 11\SHEETS - 168-172 (51-55).DWG



PIPE SPECIFICATION	



<p><b>LEGEND</b></p> <ul style="list-style-type: none"> <li>— X — X — PROPERTY LINE</li> <li>— E — UNDERGROUND ELECTRIC</li> <li>— W — WATER LINE</li> <li>— G — EXISTING GAS PIPELINE</li> <li>— OH — OVERHEAD UTILITY LINES</li> <li>— — ACCESS ROAD</li> <li>— — PROPOSED GAS PIPELINE</li> <li>— — SAN — SANITARY SEWER</li> <li>— — EDGE OF GRAVEL</li> <li>— — PROPOSED PERMANENT EASEMENT</li> <li>— — PROPOSED GAS PIPELINE (NO GROUND SURVEY)</li> <li>□ — EXTRA WORK SPACE</li> <li>□ — AREA OF NO DISTURBANCE</li> <li>□ — WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)</li> <li>□ — TOPSOIL SEGREGATION AREA</li> <li>□ — PROPOSED TEMPORARY R.O.W.</li> <li>□ — UTILITY POLE</li> <li>▲ — PERMANENT WATERBAR/SLOPE BREAKER</li> <li>▲ — TEMPORARY WATERBAR/SLOPE BREAKER</li> <li>▲ — TRENCH BREAKER/PLUG</li> <li>◆ — STREAM CROSSING</li> <li>◆ — USFWS STREAM CROSSING WITH ENHANCED CONTROLS</li> <li>◆ — CONSTRUCTION ENTRANCE WITH DITCH</li> <li>◆ — CULVERT/ WATERBAR</li> <li>— — LOD — LIMIT OF DISTURBANCE</li> <li>— — BSRF — BELTED SILT RETENTION FENCE (BSRF)</li> <li>— — COIR LOG</li> <li>— — COMPOST FILTER SOCK</li> <li>— — ORANGE SAFETY FENCE</li> <li>— — ROADSIDE DITCH</li> <li>○ — CuB — SOIL TYPE</li> </ul>	<p><b>NOTES:</b></p> <ol style="list-style-type: none"> <li>COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY - UTM WITH NAD83 DATUM, ZONE 17, US SURVEY FOOT, CENTRAL MERIDIAN 81° W.</li> <li>CONTOURS AND TOPOGRAPHIC FEATURES WERE DERIVED FROM LIDAR DATA AND GPS SUB-METER GROUND SURVEY PERFORMED BY GAI CONSULTANTS, INC FROM 11-03-2014 THRU 11-07-2014.</li> <li>IMAGERY TAKEN FROM GOOGLE EARTH.</li> <li>THE PROPERTY LINES SHOWN ARE BASED ON GIS &amp; TAX ASSESSMENT RECORDS (PROVIDED BY OTHERS). GAI CONSULTANTS MAKE NO GUARANTEE EITHER EXPRESSED OR IMPLIED AS TO THE ACCURACY OF THE RECORDS AS SHOWN ON THESE DRAWINGS.</li> <li>STREAM AND WETLAND DATA SHOWN ON THE DRAWINGS WAS PROVIDED BY ERM.</li> <li>EROSION AND SEDIMENTATION CONTROL ELEMENTS MAY BE SHOWN OUTSIDE OF THE WORK AREAS FOR CLARITY ONLY. ACTUAL INSTALLATION SHALL BE WITHIN THE WORK AREAS.</li> <li>ALL STATIONING SHOWN IS SLOPE STATIONING.</li> <li>SILT FENCE AND FILTER SOCK SHALL BE INSTALLED PARALLEL TO CONTOUR TO EXTENT PRACTICABLE IN ACCORDANCE WITH STANDARD DETAIL.</li> <li>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.</li> <li>ERM IS SOLELY RESPONSIBLE FOR THE NATURE AND LOCATION OF THE DEPICTED BMPs AS OF THE DATE SIGNED AND SEALED BASED ON THE SOURCE DATA PROVIDED AND AS DESCRIBED IN THE NOTES SECTION OF THE INDEX SHEET OF THIS PLAN SET.</li> </ol>
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REVISIONS		DESCRIPTION
NO.	DATE	

**36" AP-2 PIPELINE**  
**CONSTRUCTION ALIGNMENT STA 8358+00 TO 8412+00**  
 ROBESON 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.	140468
TASK NO. SUB TASK NO.	005 00
GROUP ID DRAWING NO.	D E168
168 OF 189	