

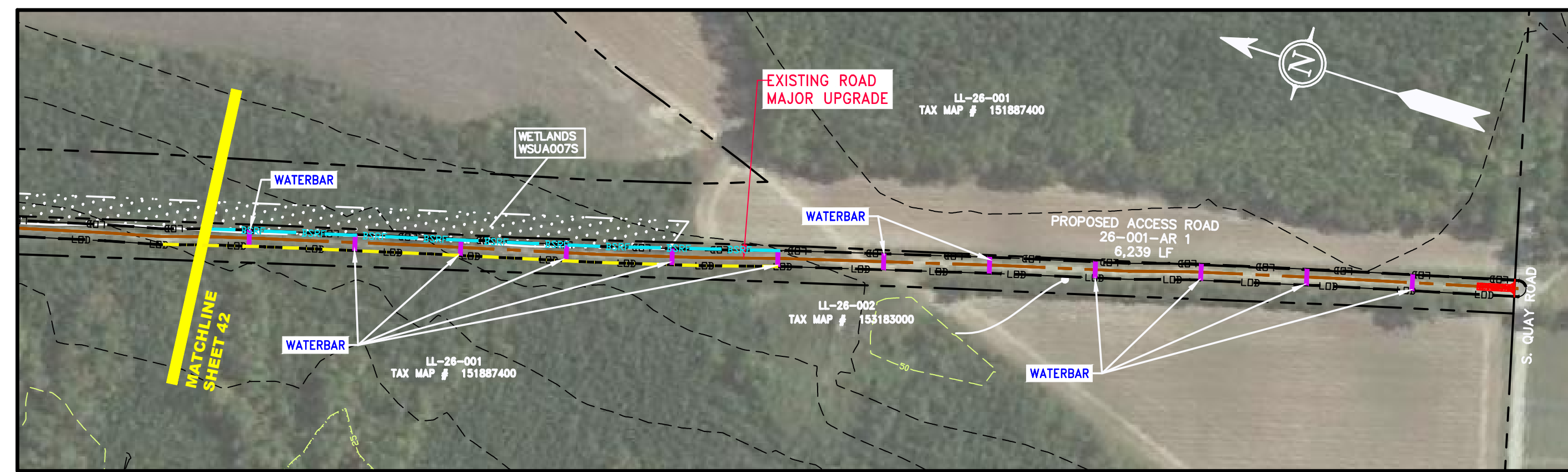




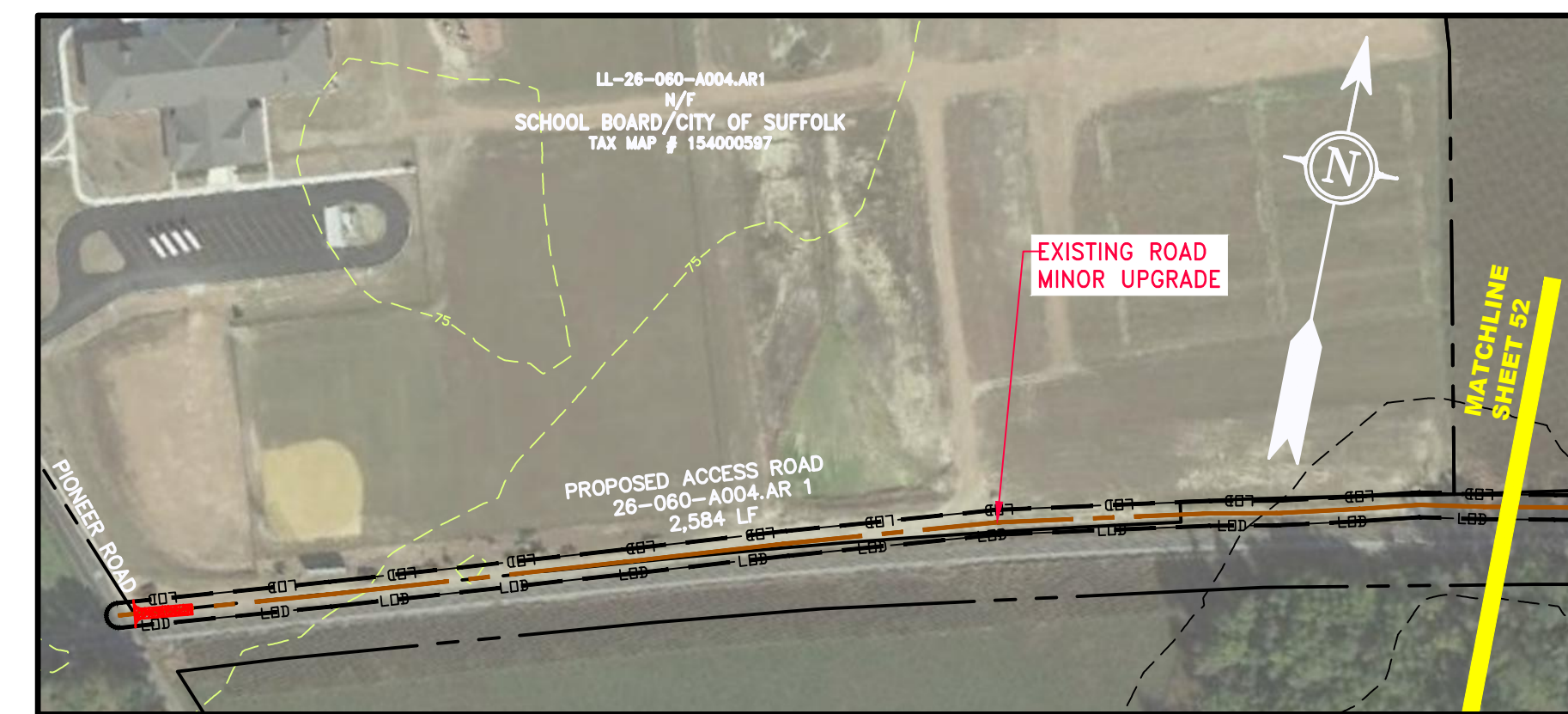
J:\2665 - GAI\WORK ORDER 06 - SOUTHEAST PIPELINE (SECTION 7)\3 - CAD DRAWINGS\ACCESS ROAD SHEETS\AR-101.DWG



ACCESS ROAD  
DETAIL 1



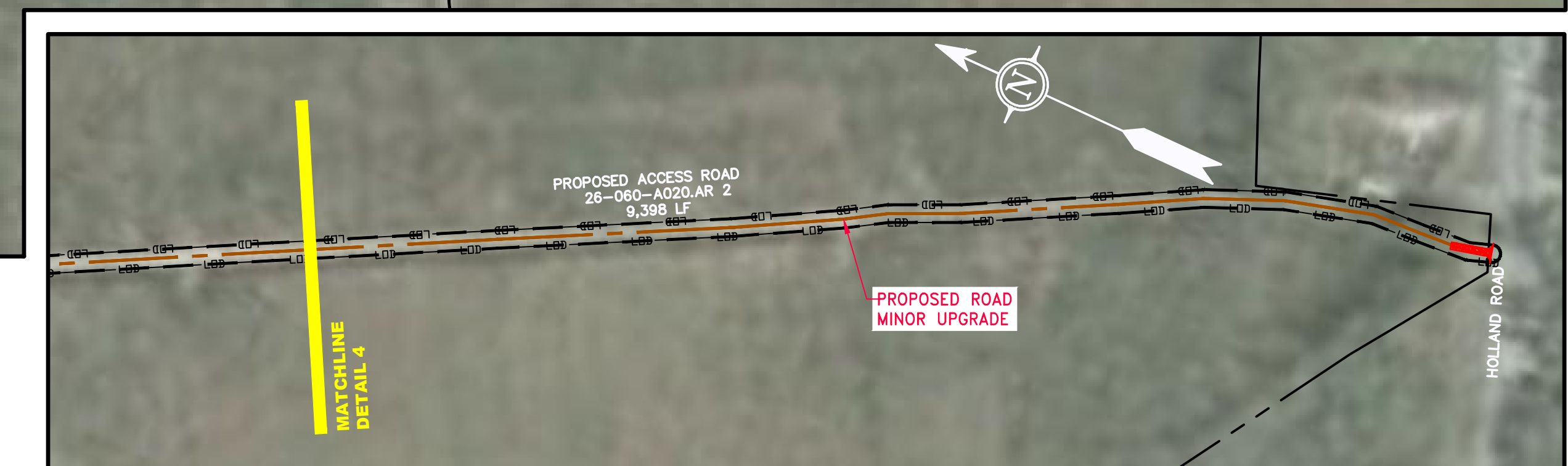
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DETAIL 2



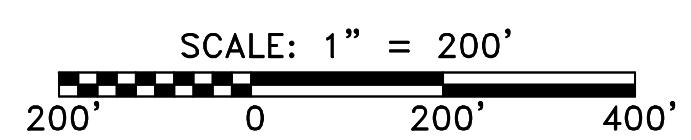
ACCESS ROAD  
DETAIL 3



ACCESS ROAD  
DETAIL 4



ACCESS ROAD  
DETAIL 5



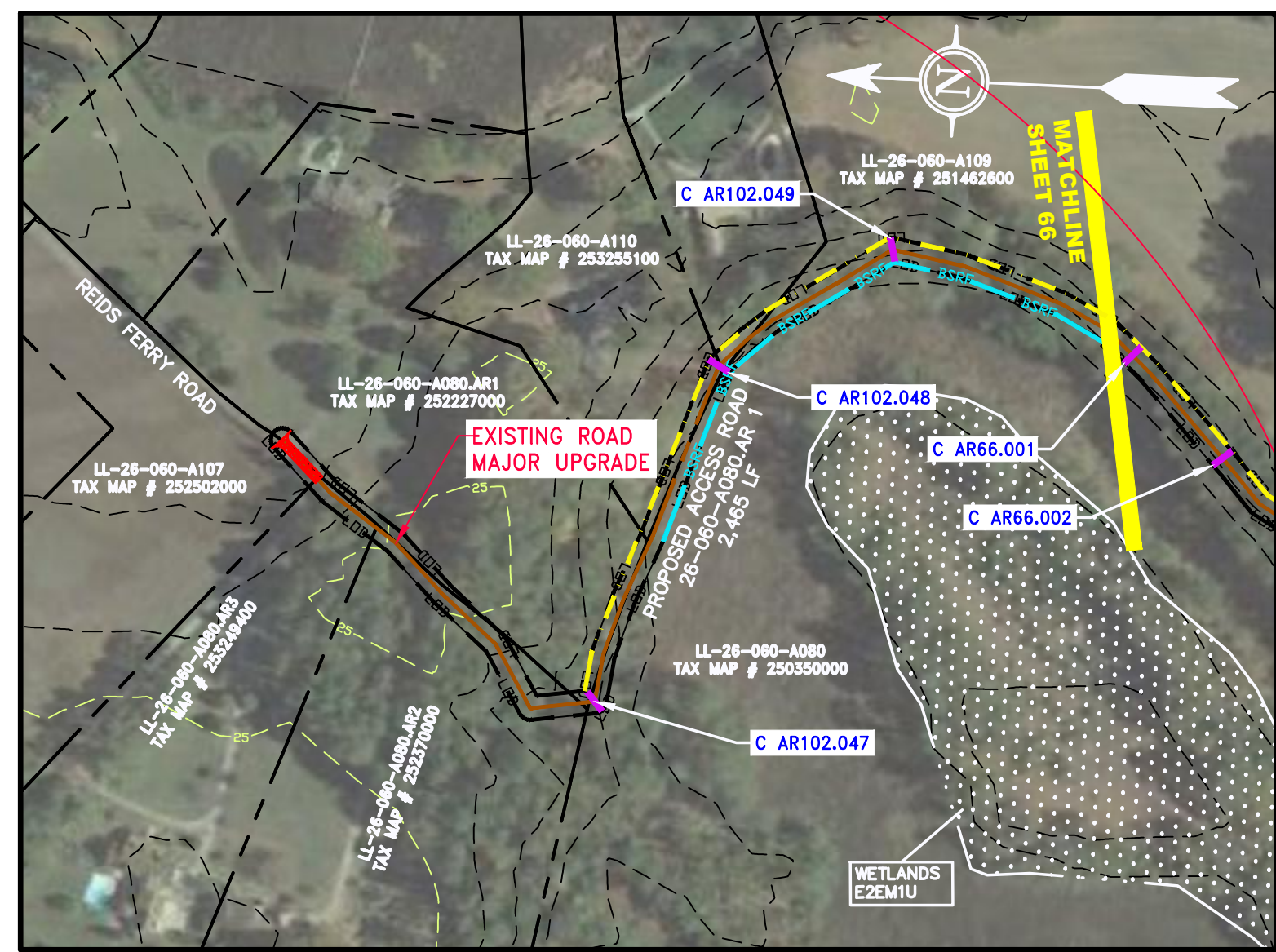
LEGEND	
	PROPERTY LINE
	STORM SEWER
	FENCE
	STREAM
	EXISTING GAS PIPELINE
	OVERHEAD UTILITY LINES
	ACCESS ROAD
	PROPOSED GAS PIPELINE
	UNDERGROUND ELECTRIC
	WATER LINE
	SANITARY SEWER
	EDGE OF GRAVEL
	PROPOSED PERMANENT EASEMENT
	PROPOSED GAS PIPELINE (NO GROUND SURVEY)
	EXTRA WORK SPACE
	AREA OF NO 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
	STREAM CROSSING
	USPFS STREAM CROSSING WITH ENHANCED CONTROLS
	SEEP
	SLOPE DIRECTION
	CONSTRUCTION ENTRANCE WITH DITCH
	CULVERT AS NEEDED
	CULVERT/WATERBAR
	LIMIT OF DISTURBANCE
	BELTED SILT RETENTION FENCE (BSRF)
	COMPOST FILTER SOCK
	SEDIMENT BARRIER IDENTIFICATION
	CULVERT IDENTIFICATION
	ORANGE SAFETY FENCE
	ROADSIDE DITCH
	SOIL TYPE
	TYPICAL BIC SLOPE CATEGORY SLOPE INCLINATION

**NOTES:**

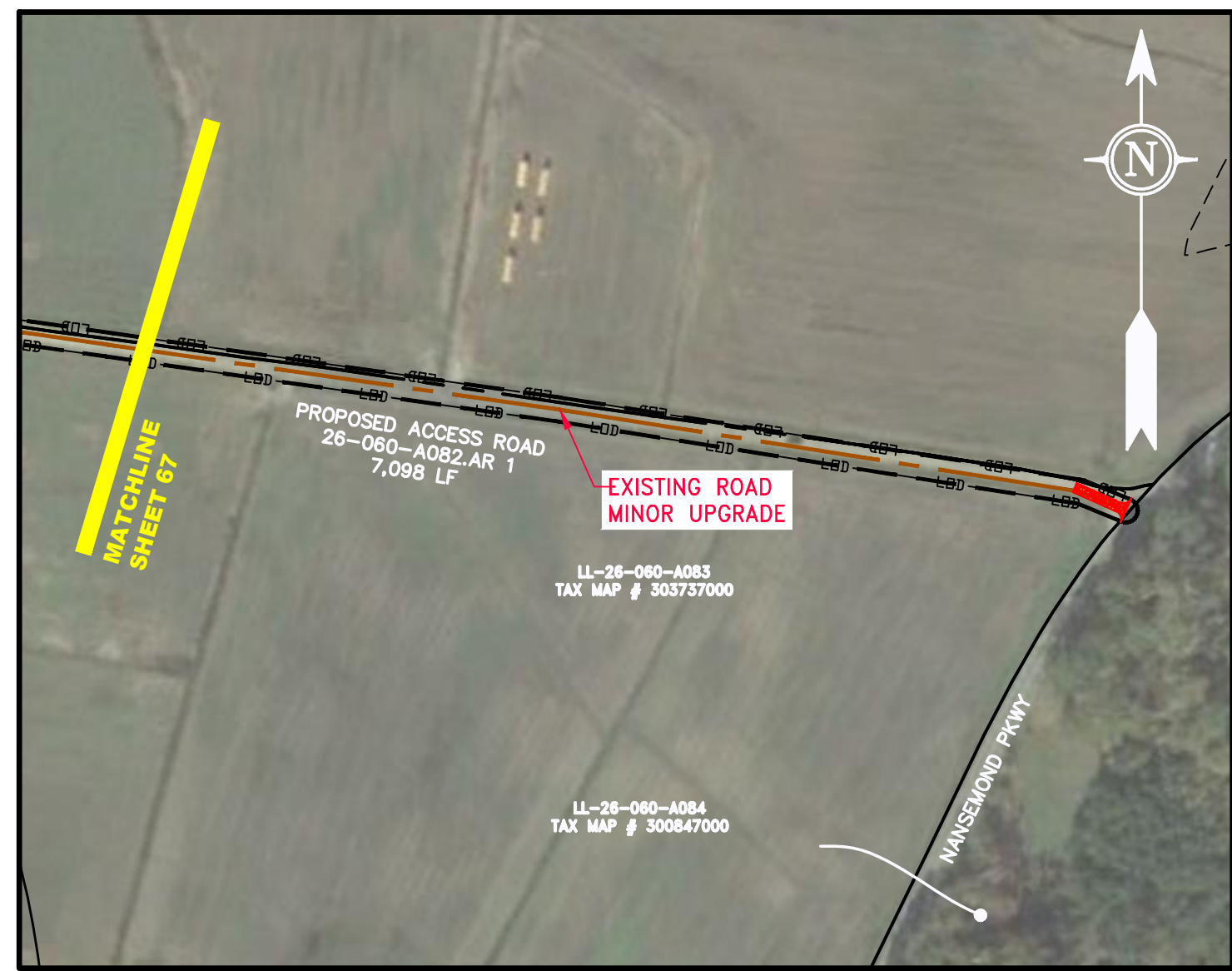
- COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY - UTM WITH NAD83 DATUM, ZONE 17, US SURVEY FOOT, CENTRAL MERIDIAN 81° W.
- CONTOURS AND TOPOGRAPHIC FEATURES WERE DERIVED FROM LIDAR DATA AND GPS SUB-METER GROUND SURVEY PERFORMED BY GAI CONSULTANTS, INC FROM 11-03-2014 THRU 11-07-2014.
- IMAGERY TAKEN FROM GOOGLE EARTH.
- THE PROPERTY LINES SHOWN ARE BASED ON GIS & TAX ASSESSMENT RECORDS (PROVIDED BY OTHERS). GAI CONSULTANTS MAKE NO GUARANTEE EITHER EXPRESSED OR IMPLIED AS TO THE ACCURACY OF THE RECORDS AS SHOWN ON THESE DRAWINGS.
- STREAM AND WETLAND DATA SHOWN ON THE DRAWINGS WAS PROVIDED BY ERM.
- EROSION AND SEDIMENTATION CONTROL ELEMENTS MAY BE SHOWN OUTSIDE OF THE WORK AREAS FOR CLARITY ONLY. ACTUAL INSTALLATION SHALL BE WITHIN THE WORK AREAS.
- ALL STATIONING SHOWN IS SLOPE STATIONING.
- SILT FENCE AND FILTER SOCK SHALL BE INSTALLED PARALLEL TO CONTOUR TO EXTENT PRACTICABLE IN ACCORDANCE WITH STANDARD DETAIL BEST IN CLASS (BIC) STEEP SLOPE CATEGORY INFORMATION CAN BE FOUND IN THE APPENDIX OF THE STORMWATER POLLUTION PREVENTION PLAN.
- EROSION CONTROL MATTING SHALL BE PLACED IN AREAS OF 30% SLOPE AND GREATER, WHICH ARE INDICATED ON THE BEST IN CLASS STEEP SLOPE 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.4.5 FEDERAL ENERGY REGULATORY COMMISSION (FERC) UPLAND EROSION CONTROL, VEGETATION, AND MAINTENANCE PLAN, SECTION V.4.5. 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.

AP-3 PIPELINE ACCESS ROADS 25-081-AR1, 26-001-AR1, 26-060-A004-AR1 & 26-060-A020-AR2 SOUTHAMPTON COUNTY & CITY OF SUFFOLK, VIRGINIA	
ATLANTIC COAST PIPELINE, LLC C/O DOMINION TRANSMISSION, INC. 925 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330	
SCALE:	AS SHOWN
DATE:	4/21/17
DRAWN:	MPC
CHECKED:	DLH
APPROVED:	NET
SOUTHPOINT OFFICE 6000 TOWN CENTER BLVD. CANONSBURG, PA 15317 724-673-3545	
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.	AR-101
2	OF 4

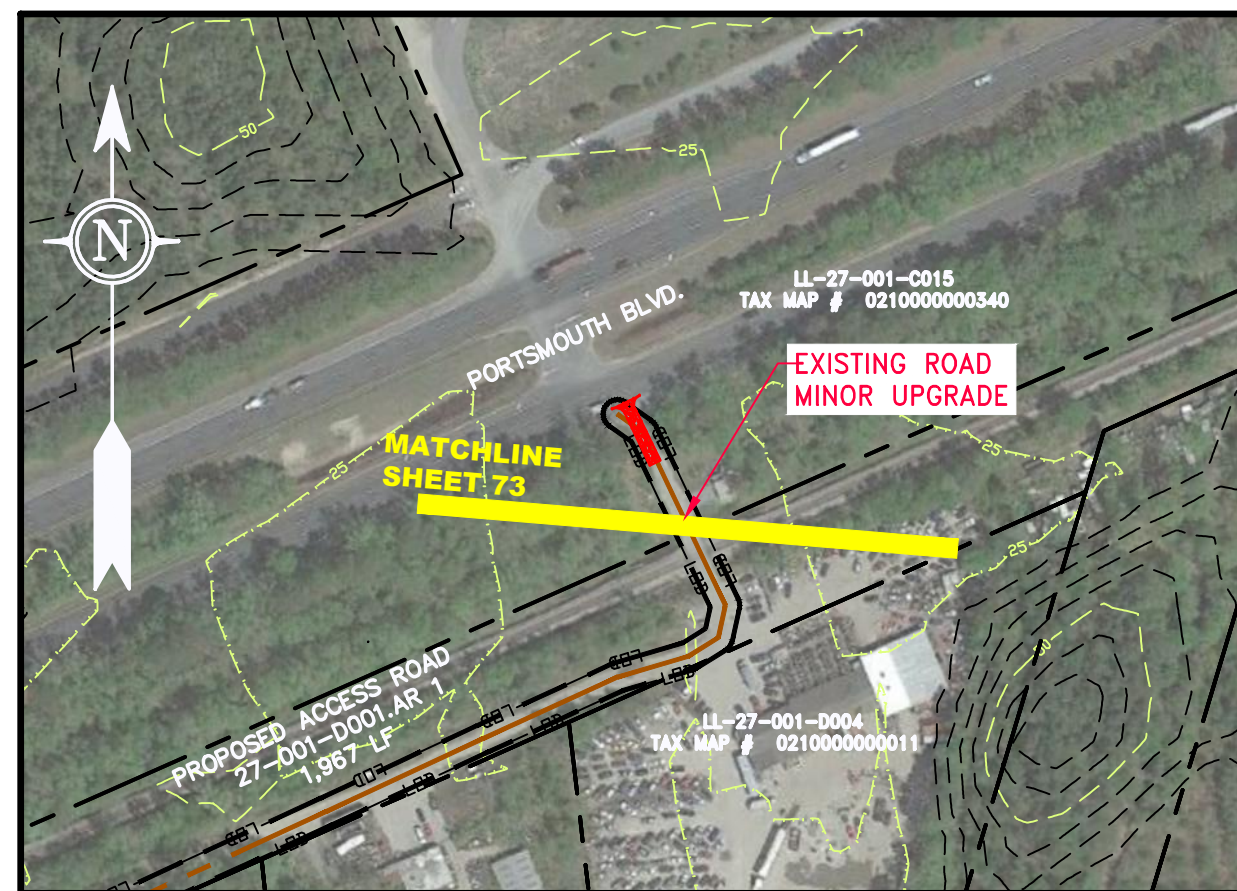




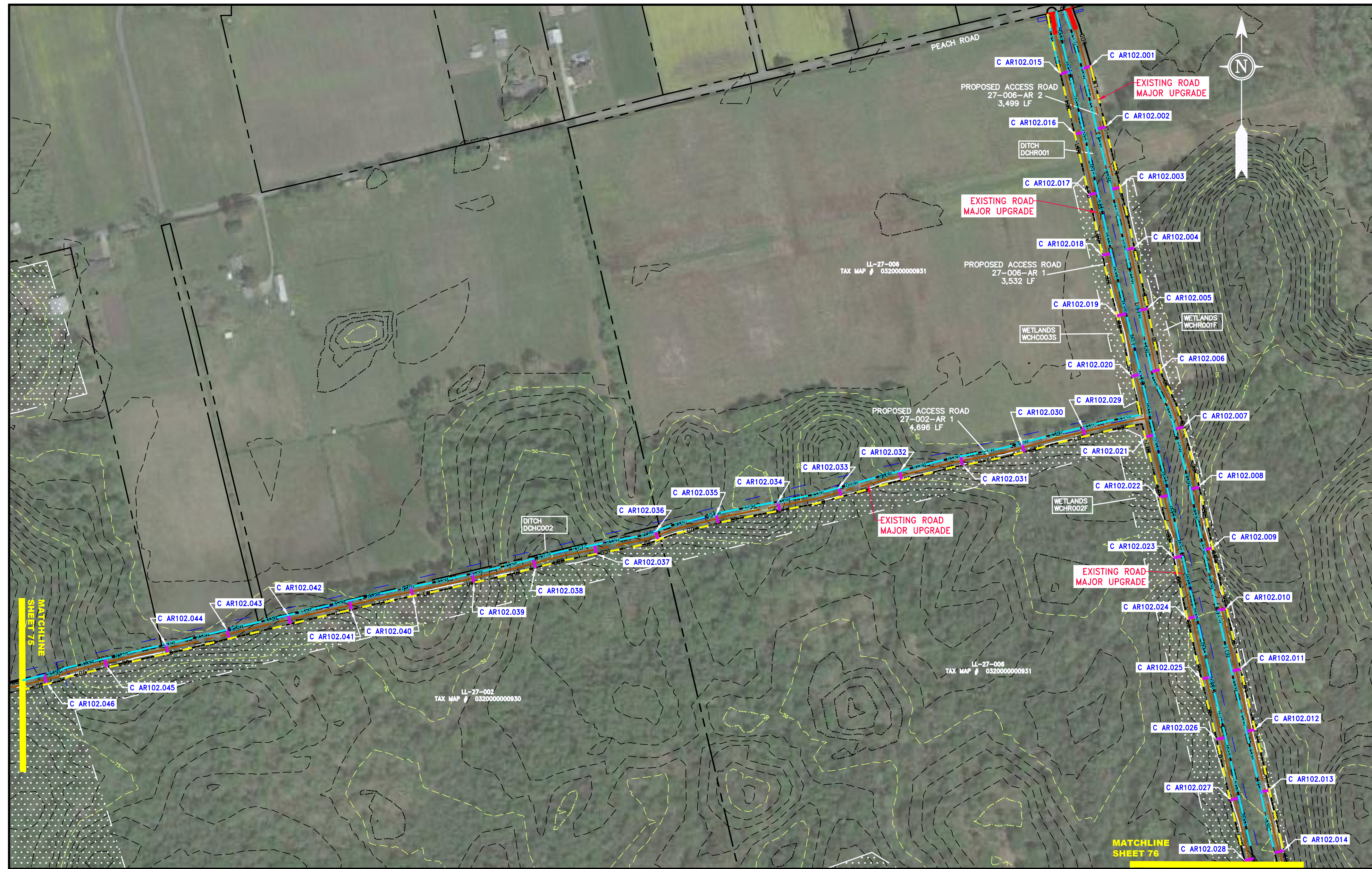
ACCESS ROAD  
DETAIL 1



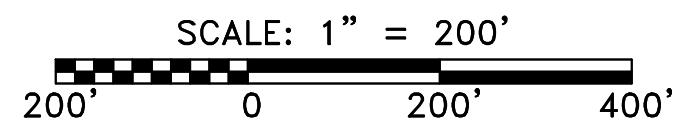
ACCESS ROAD  
DETAIL 2



ACCESS ROAD  
DETAIL 3



ACCESS ROAD  
DETAIL 4



**LEGEND**

	PROPERTY LINE		STORM SEWER
	FENCE		UNDERGROUND ELECTRIC
	STREAM		WATER LINE
	EXISTING GAS PIPELINE		SANITARY SEWER
	OVERHEAD UTILITY LINES		EDGE OF GRAVEL
	ACCESS ROAD		PROPOSED PERMANENT EASEMENT
	PROPOSED GAS PIPELINE (NO GROUND SURVEY)		WETLAND

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

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

	PERMANENT WATERBAR/SLOPE BREAKER		LIMIT OF DISTURBANCE
	TEMPORARY WATERBAR/SLOPE BREAKER		BELTED SILT RETENTION FENCE (BSRF)
	TRENCH BREAKER/PLUG		COMPOST FILTER SOCK
	STREAM CROSSING		SEDIMENT BARRIER IDENTIFICATION
	USPWS STREAM CROSSING WITH ENHANCED CONTROLS		CULVERT IDENTIFICATION
	SEEP		ORANGE SAFETY FENCE
	SLOPE DIRECTION		ROADSIDE DITCH
	CONSTRUCTION ENTRANCE WITH DITCH		SOIL TYPE
	CULVERT AS NEEDED		TYPICAL BIC SLOPE CATEGORY SLOPE INCLINATION
	CULVERT/WATERBAR		

- NOTES:**
- COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY - UTM WITH NAD83 DATUM, ZONE 17, US SURVEY FOOT, CENTRAL MERIDIAN 81° W.
  - CONTOURS AND TOPOGRAPHIC FEATURES WERE DERIVED FROM LIDAR DATA AND GPS SUB-METER GROUND SURVEY PERFORMED BY GAI CONSULTANTS, INC FROM 11-03-2014 THRU 11-07-2014.
  - IMAGERY TAKEN FROM GOOGLE EARTH.
  - THE PROPERTY LINES SHOWN ARE BASED ON GIS & TAX ASSESSMENT RECORDS (PROVIDED BY OTHERS). GAI CONSULTANTS MAKE NO GUARANTEE EITHER EXPRESSED OR IMPLIED AS TO THE ACCURACY OF THE RECORDS AS SHOWN ON THESE DRAWINGS.
  - STREAM AND WETLAND DATA SHOWN ON THE DRAWINGS WAS PROVIDED BY ERM.
  - EROSION AND SEDIMENTATION CONTROL ELEMENTS MAY BE SHOWN OUTSIDE OF THE WORK AREAS FOR CLARITY ONLY. ACTUAL INSTALLATION SHALL BE WITHIN THE WORK AREAS.
  - ALL STATIONING SHOWN IS SLOPE STATIONING.
  - SILT FENCE AND FILTER SOCK SHALL BE INSTALLED PARALLEL TO CONTOUR TO EXTENT PRACTICABLE IN ACCORDANCE WITH STANDARD DETAIL.
  - BEST IN CLASS (BIC) STEEP SLOPE CATEGORY INFORMATION CAN BE FOUND IN THE APPENDIX OF THE STORMWATER POLLUTION PREVENTION PLAN.
  - EROSION CONTROL MATTING SHALL BE PLACED IN AREAS OF 30% SLOPE AND GREATER, WHICH ARE INDICATED ON THE BEST IN CLASS STEEP SLOPE 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 B MPS 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.4.5 FEDERAL ENERGY REGULATORY COMMISSION (FERC) UPLAND EROSION CONTROL, VEGETATION, AND MAINTENANCE PLAN, SECTION V.4.5. IN ADDITION, WETLAND AND WATERBODY CROSSINGS WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS IN ACCORDANCE WITH NATIONWIDE PERMIT 12 (NWP) ISSUED BY THE U.S. CORPS OF ENGINEERS.

<p>AP-3 PIPELINE ACCESS ROADS 26-060-A080.AR1, 26-060-A082.AR.1, 27-001-D001-AR.1, 27-002-AR.1, 27-006-AR1 &amp; 27-006-AR2 CITY OF SUFFOLK &amp; CITY OF CHESAPEAKE, VIRGINIA</p>	
<p>ATLANTIC COAST PIPELINE, LLC C/O DOMINION TRANSMISSION, INC. 925 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330</p>	
<p>SCALE: AS SHOWN DATE: 5/5/17 DRAWN: GOS CHECKED: DLH APPROVED: NET</p>	
<p>PROJECT NO./DASH NO. 140468</p>	
TASK NO.	SUB TASK NO.
005	00
GROUP ID	DRAWING NO.
D	AR-102
3	OF 4

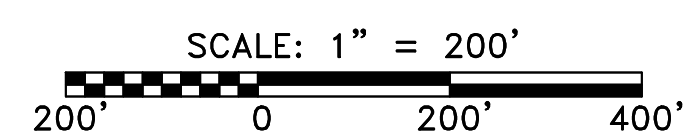
J:\2665 -GAI\WORK ORDER 06 - SOUTHEAST PIPELINE (SECTION 7)\3 - CAD DRAWINGS\ACCESS ROAD SHEETS\AR-102.DWG



J:\2665 -GAI\WORK ORDER 06 - SOUTHEAST PIPELINE (SECTION 7)\3 - CAD DRAWINGS\ACCESS ROAD SHEETS\AR-103.DWG



ACCESS ROAD  
DETAIL 1



LEGEND	
— X — X —	FENCE
— G — G —	EXISTING GAS PIPELINE
— OH —	OVERHEAD UTILITY LINES
— — —	ACCESS ROAD
— — — — —	PROPOSED GAS PIPELINE
— — — — —	PROPOSED GAS PIPELINE (NO GROUND SURVEY)
— — — — —	STORM SEWER
— E —	UNDERGROUND ELECTRIC
— W —	WATER LINE
— G —	SANITARY SEWER
— — — — —	EDGE OF GRAVEL
— — — — —	PROPOSED PERMANENT EASEMENT
[Hatched Box]	EXTRA WORK SPACE
[Dotted Box]	WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)
[Hatched Box]	TOPSOIL SEGREGATION AREA
[Hatched Box]	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]	USFWS STREAM CROSSING WITH ENHANCED CONTROLS
[Circle]	SEEP
[Arrow]	SLOPE DIRECTION
[Arrow]	CONSTRUCTION ENTRANCE WITH DITCH
[Arrow]	CULVERT AS NEEDED
[Arrow]	CULVERT/WATERBAR
[Line]	LOD
[Line]	BSRF
[Line]	BSRF
[Line]	111.03
[Line]	C 111.001
[Line]	ORANGE SAFETY FENCE
[Line]	ROADSIDE DITCH
[Line]	SOIL TYPE
[Line]	30-58%
[Line]	TYPICAL BIC SLOPE CATEGORY SLOPE INCLINATION

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.
  - 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.
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  - EROSION CONTROL MATTING SHALL BE PLACED IN AREAS OF 30% SLOPE AND GREATER, WHICH ARE INDICATED ON THE BEST IN CLASS STEEP SLOPES BAND.
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AP-3 PIPELINE ACCESS ROADS 25-081-AR 2 CITY OF SUFFOLK & CITY OF CHESAPEAKE, VIRGINIA ATLANTIC COAST PIPELINE, LLC C/O DOMINION TRANSMISSION, INC. 925 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330	
SCALE:	AS SHOWN
DATE:	4/4/17
DRAWN:	NSD
CHECKED:	DLH
APPROVED:	NET
SOUTHPOINTE OFFICE 6000 TOWN CENTER BLVD. CANONSBURG, PA 15317 724-673-3545	
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.	AR-103
4	OF 4

NO.	DATE	BY	CHKD.	APPROV.	DESCRIPTION