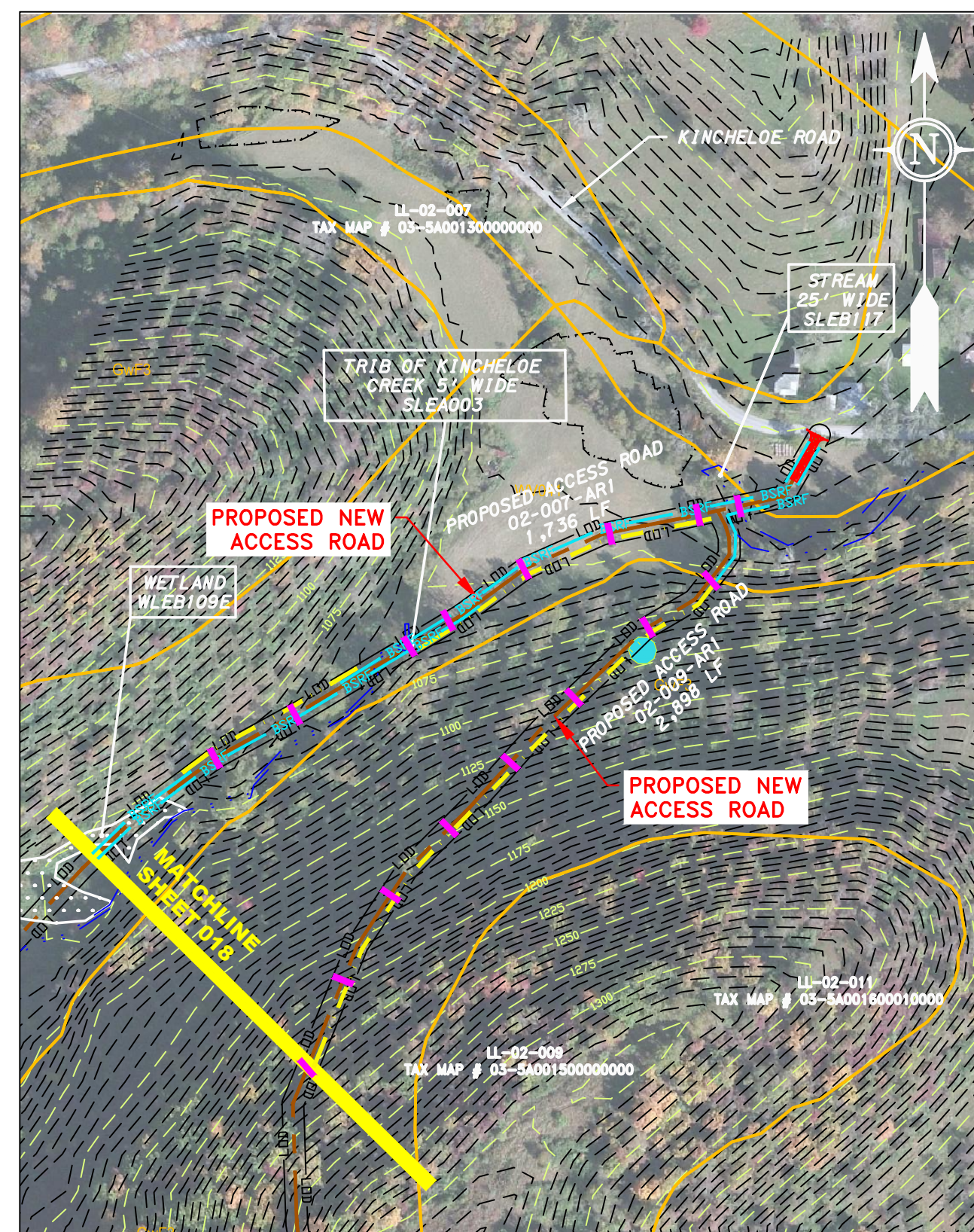


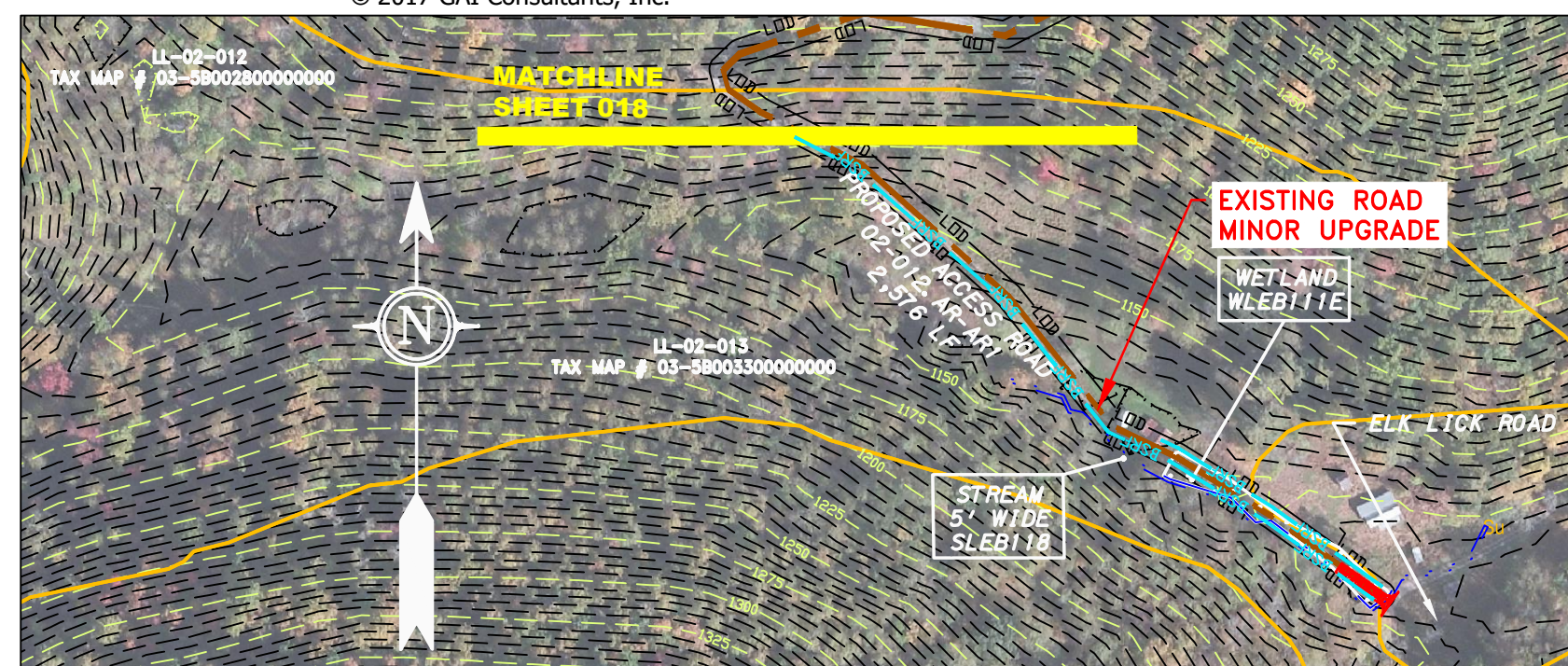
APPENDIX Q

Access Road Plans

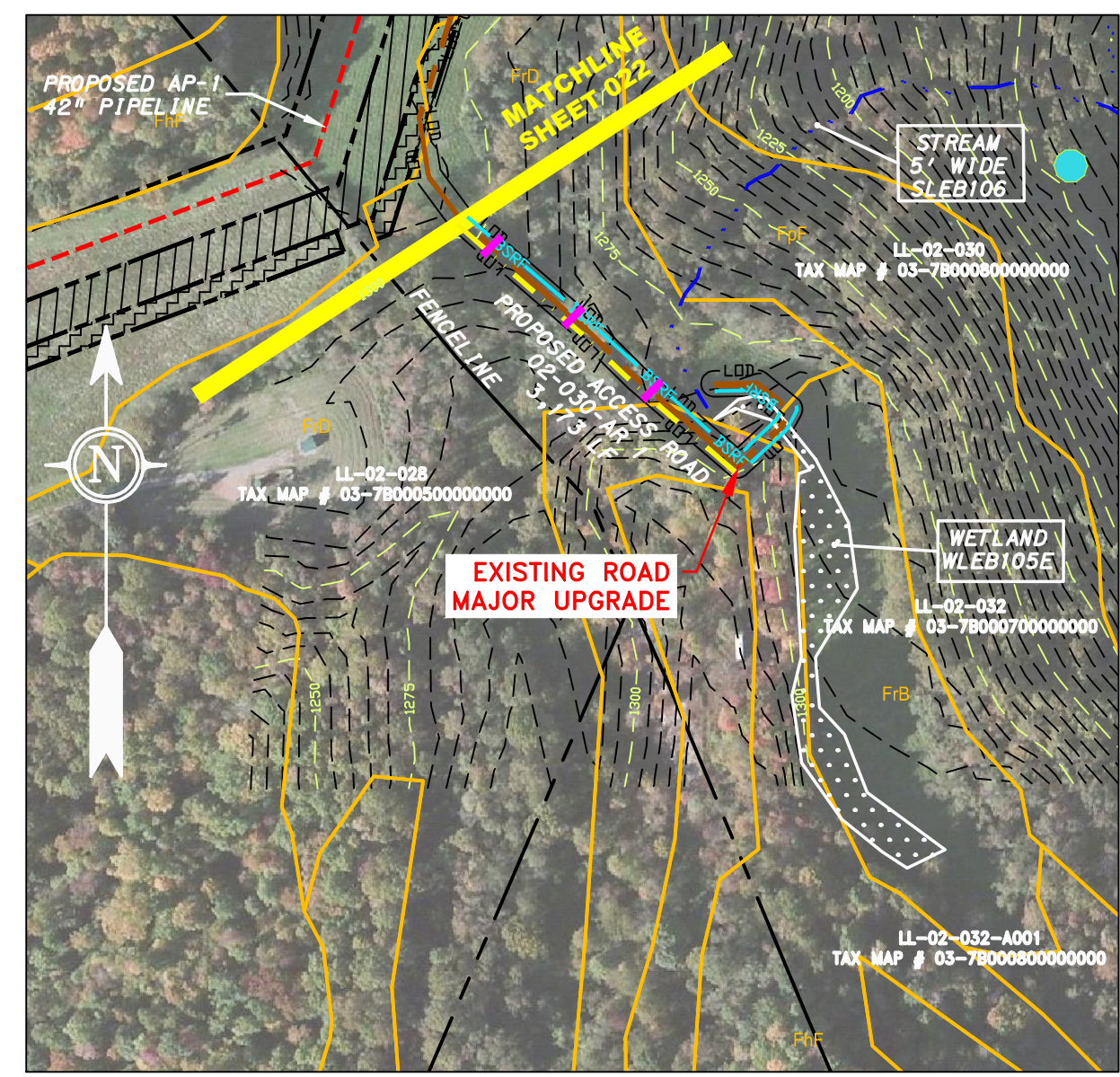
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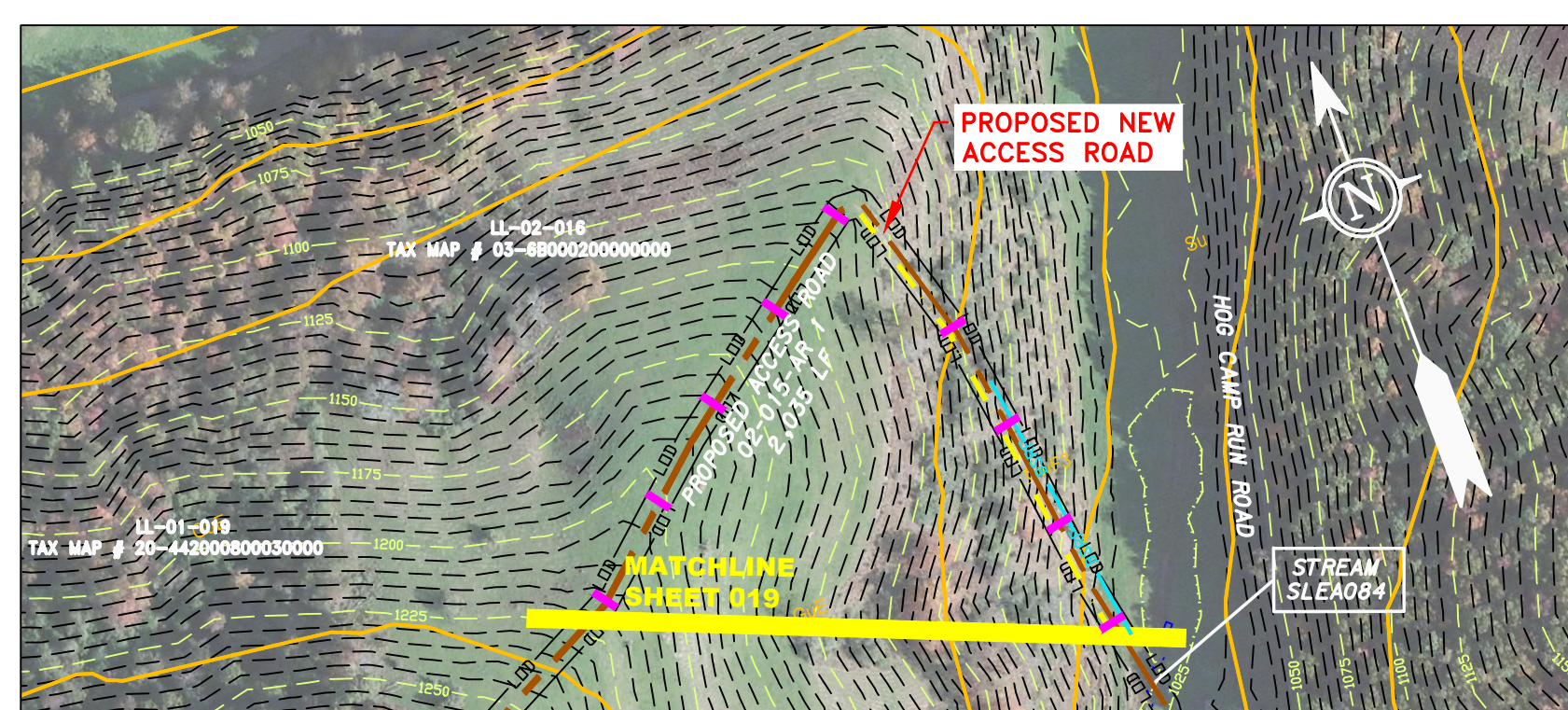
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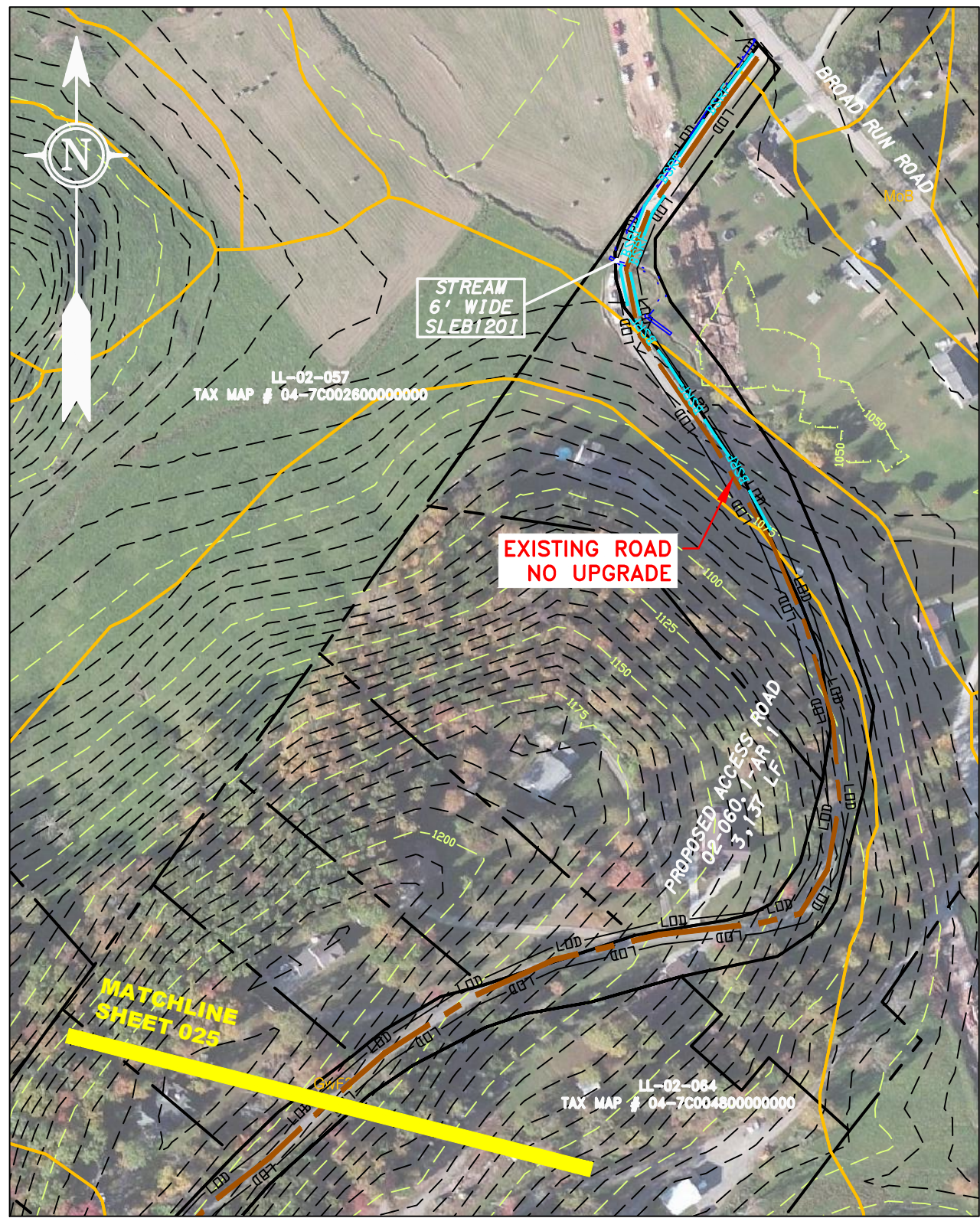
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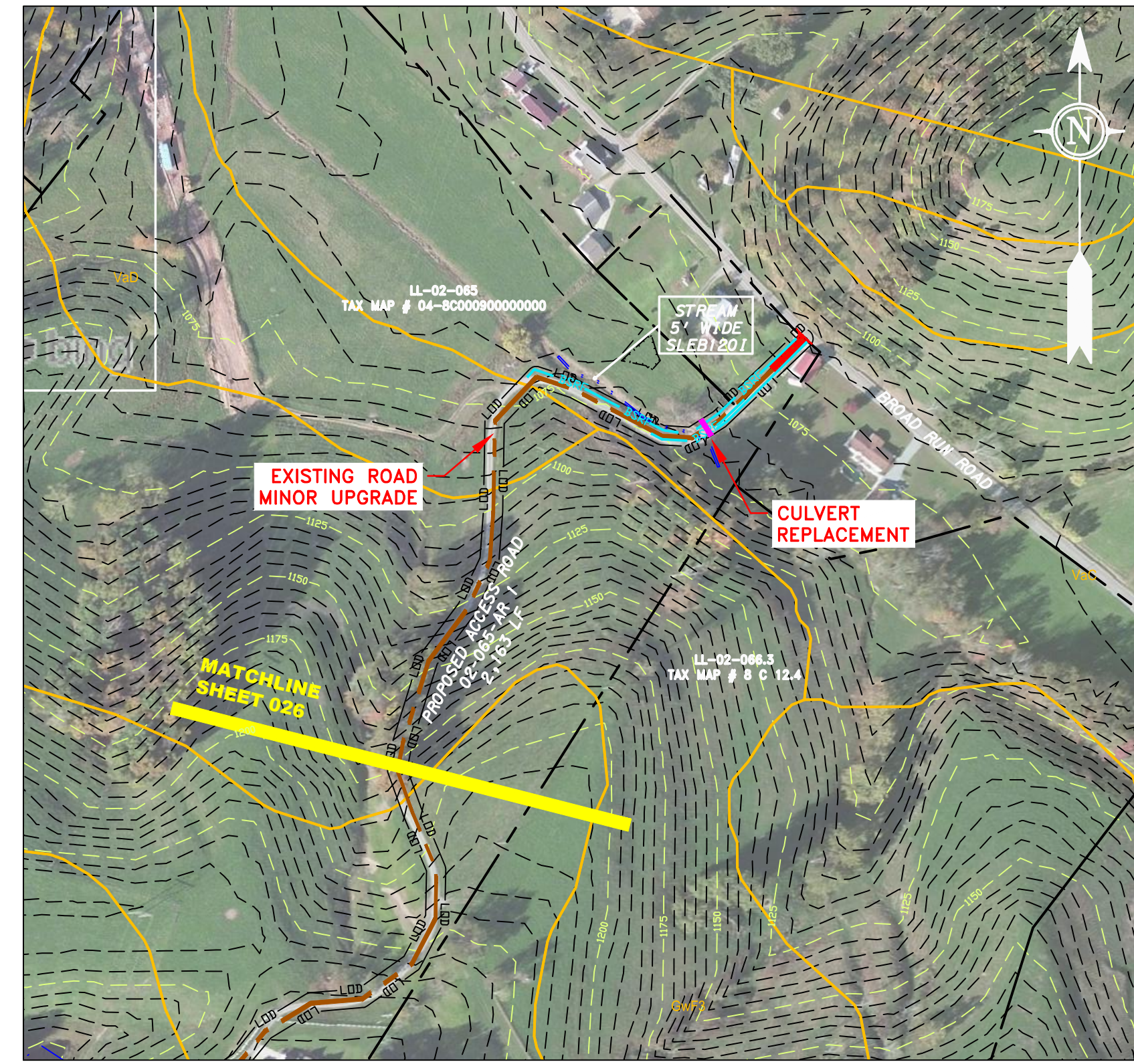
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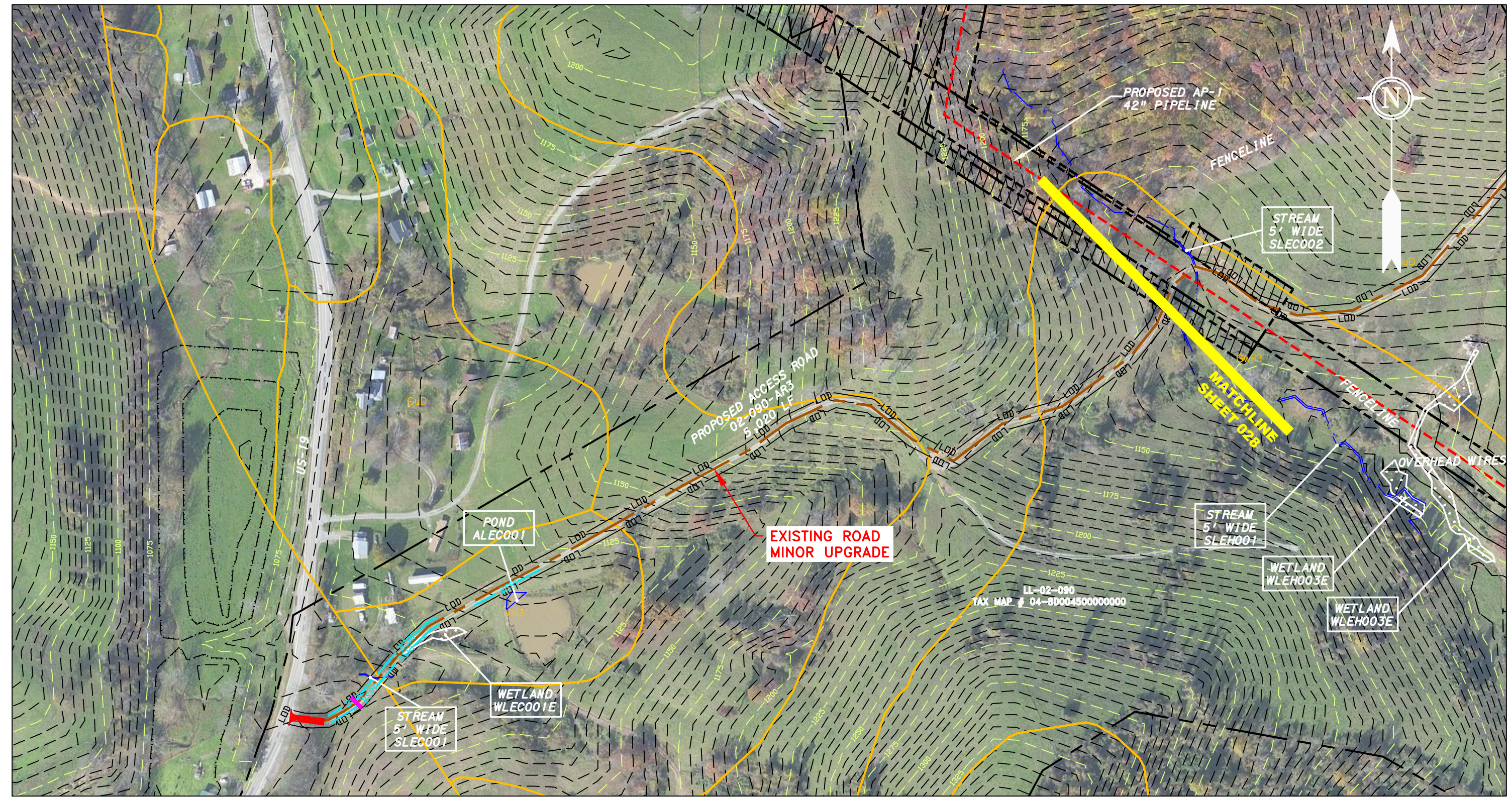
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ACCESS ROAD DETAIL 6

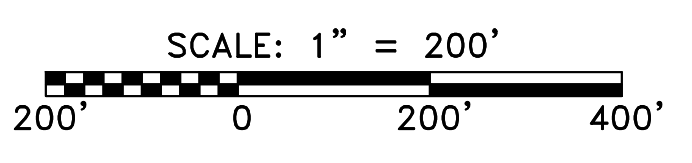


ACCESS ROAD DETAIL 7



ACCESS ROAD DETAIL 8

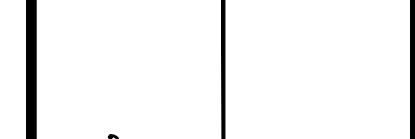
LEGEND	
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	STORM SEWER
	FENCE
	UNDERGROUND ELECTRIC
	STREAM
	WATER LINE
	EXISTING GAS PIPELINE
	SANITARY SEWER
	OVERHEAD UTILITY LINES
	EDGE OF GRAVEL
	ACCESS ROAD
	PROPOSED PERMANENT EASEMENT
	PROPOSED GAS PIPELINE (NO GROUND SURVEY)
	EXTRA WORK SPACE
	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
	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
	LIMIT OF DISTURBANCE
	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



- 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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 - 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 SLOPES BAND.
 - ACCESS ROADS HAVE BEEN GROUPED INTO FOUR CATEGORIES: 1) EXISTING ROADS NO IMPROVEMENTS, 2) EXISTING ROADS MINOR IMPROVEMENTS, 3) EXISTING ROADS MAJOR IMPROVEMENTS AND 4) NEW ROADS. APPROPRIATE EROSION AND SEDIMENT CONTROLS WILL BE PROVIDED FOR ROADS IN CATEGORIES 2, 3 AND 4. ROADS IN CATEGORIES 1 AND 2 HAVE ADEQUATE EXISTING DRAINAGE; DRAINAGE FEATURES WILL BE PROVIDED FOR ROADS IN CATEGORIES 3 AND 4.
 - *ERM IS SOLELY RESPONSIBLE FOR THE NATURE AND LOCATION OF THE DEPICTED BMPs AS OF THE DATE SIGNED AND SEALED BASED ON THE SOURCE DATA PROVIDED AND AS DESCRIBED IN THE NOTES SECTION OF THE INDEX SHEET OF THIS PLAN SET.

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.



AP-1 PIPELINE ACCESS ROADS
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 RANDOLPH COUNTY, WEST 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:	GOS
CHECKED:	DLH
APPROVED:	NET

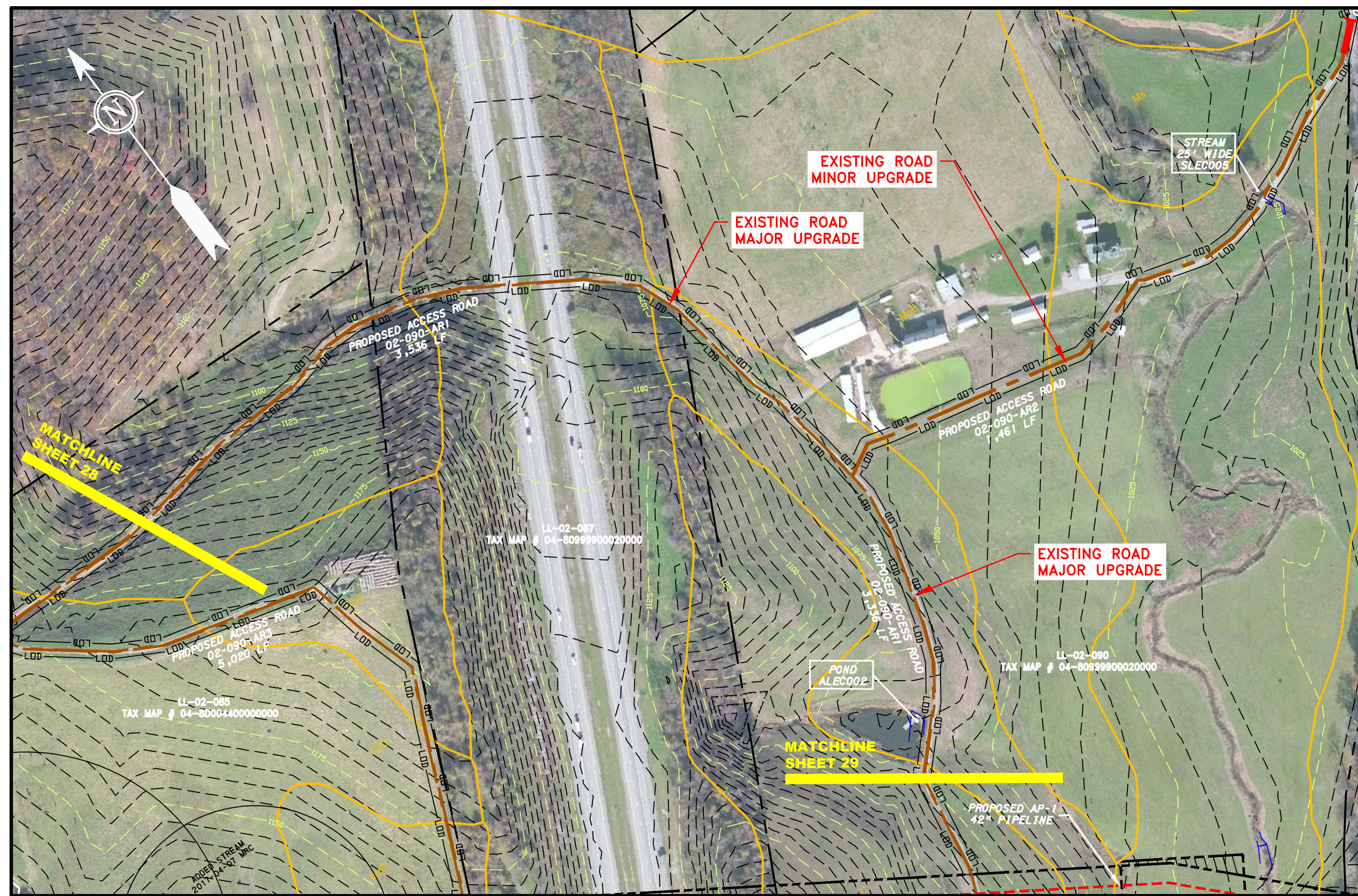


mbe
 monahon basin engineers

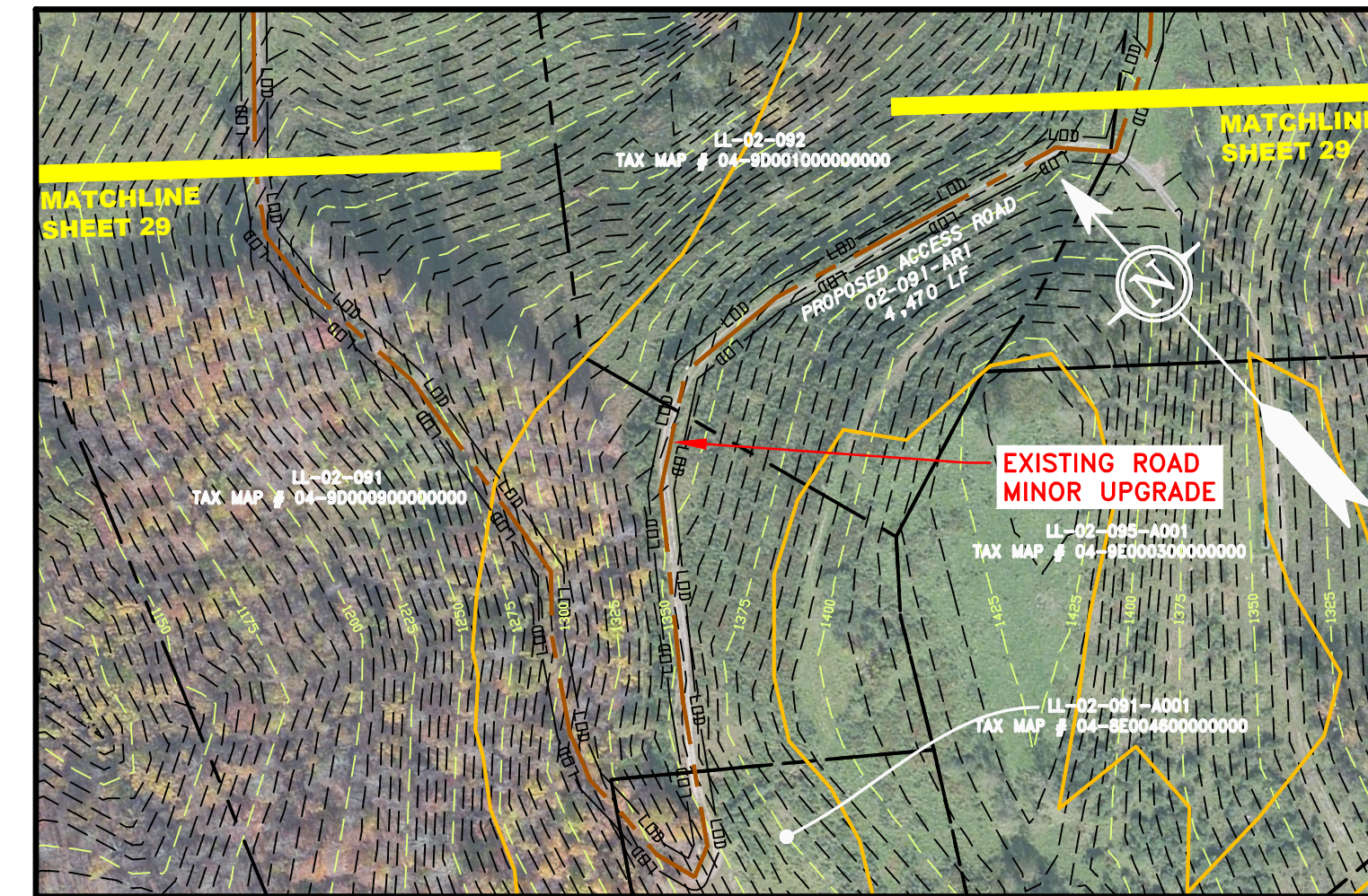
300 BUSINESS CENTER DRIVE
 PITTSBURGH, PA 15205
 412-788-2433

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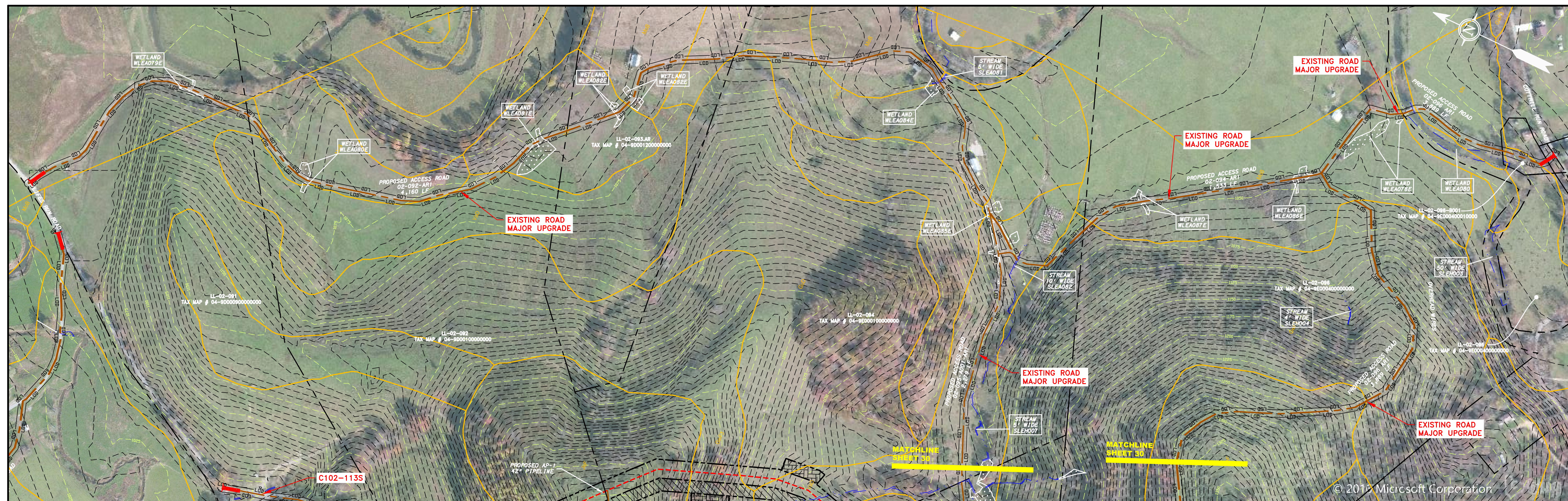
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ACCESS ROAD
DETAIL 09



ACCESS ROAD
DETAIL 11



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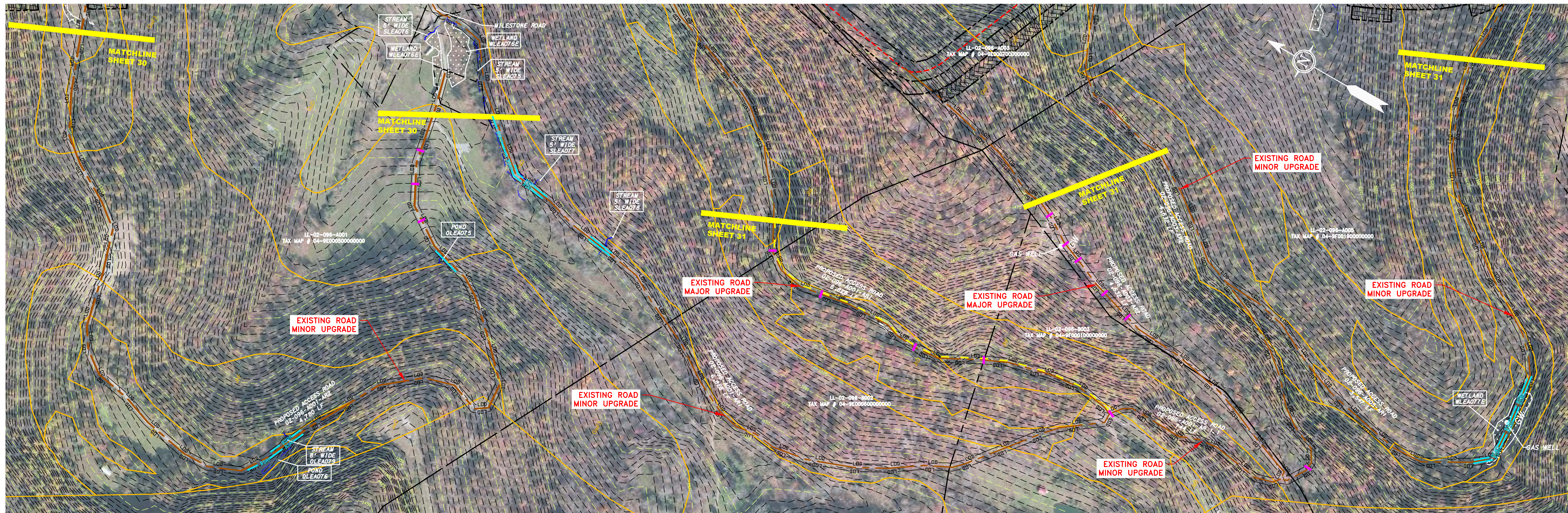
ACCESS ROAD
DETAIL 10

<p>LEGEND</p> <p>— PROPERTY LINE</p> <p>X X FENCE</p> <p>— G — EXISTING GAS PIPELINE</p> <p>OH OVERHEAD UTILITY LINES</p> <p>— ACCESS ROAD</p> <p>— PROPOSED GAS PIPELINE</p> <p>— STORM SEWER</p> <p>E UNDERGROUND ELECTRIC</p> <p>— W — WATER LINE</p> <p>SAN 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 (COLOR SHOWN TO PROVIDE CLARITY ONLY)</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>□ TRENCH BREAKER/PLUG BLEEDER DRAIN AND OUTLET</p> <p>◇ STREAM CROSSING</p> <p>◇ USFWS STREAM CROSSING WITH ENHANCED CONTROLS</p> <p>SEEP CONSTRUCTION ENTRANCE WITH DITCH</p> <p>▲ CULVERT WATERBAR</p> <p>— LOD — LIMIT OF DISTURBANCE</p> <p>— BSRF — BELTED SILT RETENTION FENCE (BSRF)</p> <p>— SSF — SUPER SILT FENCE</p> <p>111.03 COMPOST FILTER SOCK</p> <p>— IDENTIFICATION</p> <p>— ORANGE SAFETY FENCE</p> <p>— ROADSIDE DITCH</p> <p>— SOIL TYPE</p> <p>— SOIL DITCH</p> <p>— TYPICAL BIC SLOPE CATEGORY SLOPE INCLINATION</p>	<p>NOTES:</p> <p>1. COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY - UTM WITH NAD83 DATUM, ZONE 17, US SURVEY FOOT, CENTRAL MERIDIAN 81° W.</p> <p>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.</p> <p>3. IMAGERY TAKEN FROM GOOGLE EARTH.</p> <p>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.</p> <p>5. STREAM AND WETLAND DATA SHOWN ON THE DRAWINGS WAS PROVIDED BY ERM.</p> <p>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.</p> <p>7. ALL STATIONING SHOWN IS SLOPE STATIONING.</p> <p>8. 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.</p> <p>9. EROSION CONTROL MATTING SHALL BE PLACED IN AREAS OF 30% SLOPE AND GREATER, WHICH ARE INDICATED ON THE BEST IN CLASS STEEP SLOPES BAND.</p> <p>10. 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.</p> <p>11. *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.</p>
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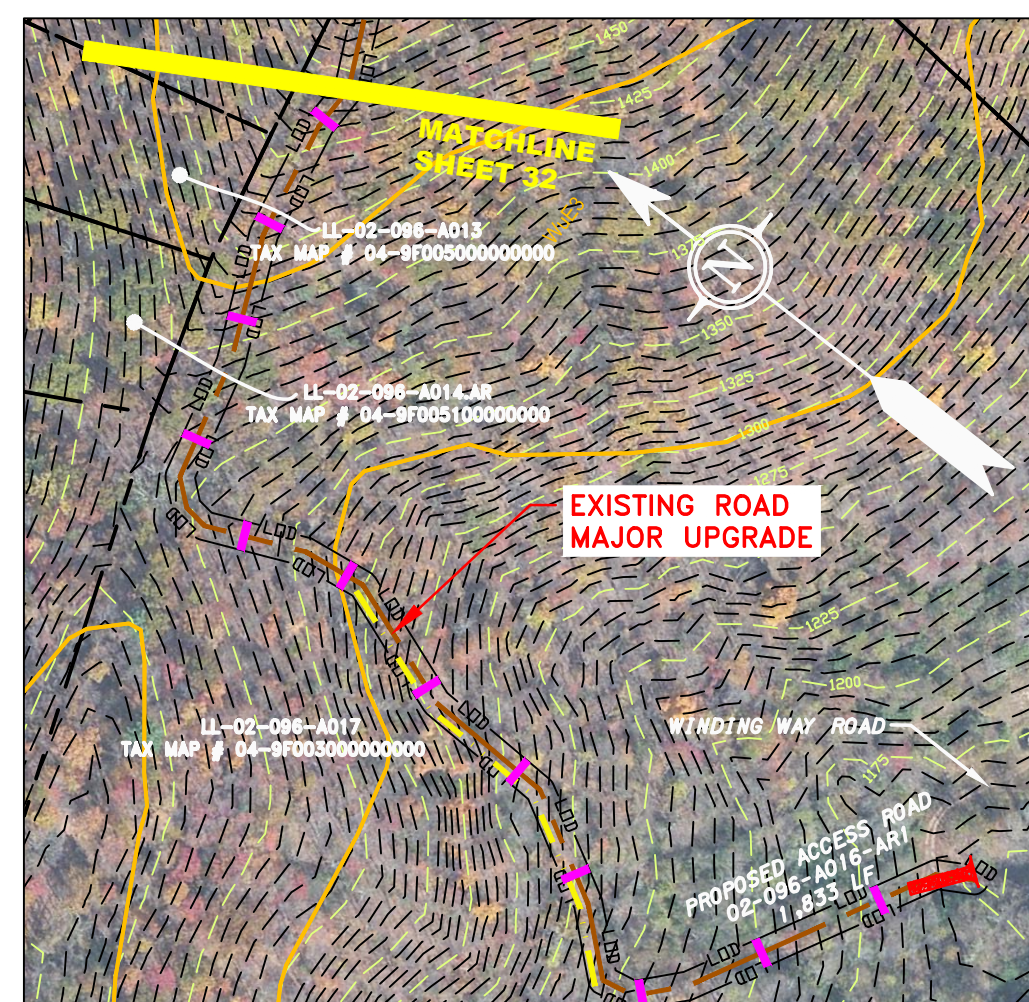
THIS DRAWING WAS PRODUCED WITH COMPUTER AIDED DRAFTING TECHNOLOGY AND IS SUPPORTED BY ELECTRONIC DRAWING FILES. DO NOT REVISE THIS DRAWING VIA MANUAL DRAFTING METHODS.

<p>AP-1 PIPELINE ACCESS ROADS 02-090-AR1, 02-090-AR2, 02-091-AR1, 02-092-AR1, 02-094-AR1, 02-095-A001-AR1 & 02-096-AR1</p>		<p>ATLANTIC COAST PIPELINE, LLC C/O DOMINION TRANSMISSION, INC. 925 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330</p>													
<p>SCALE: AS SHOWN</p> <p>DATE: 6/5/17</p> <p>DRAWN: RDH</p> <p>CHECKED: DLH</p> <p>APPROVED: NET</p>		<p>REVISIONS</p> <table border="1"> <tr> <th>NO.</th> <th>DATE</th> <th>BY</th> <th>CHKD.</th> <th>APPROV.</th> <th>DESCRIPTION</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>		NO.	DATE	BY	CHKD.	APPROV.	DESCRIPTION						
NO.	DATE	BY	CHKD.	APPROV.	DESCRIPTION										
<p>ERM</p>		<p>ERM</p>													
<p>gai consultants</p> <p>SOUTHPOINT OFFICE 6000 TOWN CENTER BLVD. CANONSBURG, PA 15317 724-673-3545</p>		<p>mbe monah basin engineers</p> <p>300 BUSINESS CENTER DRIVE PITTSBURGH, PA 15205 412-788-2433</p>													
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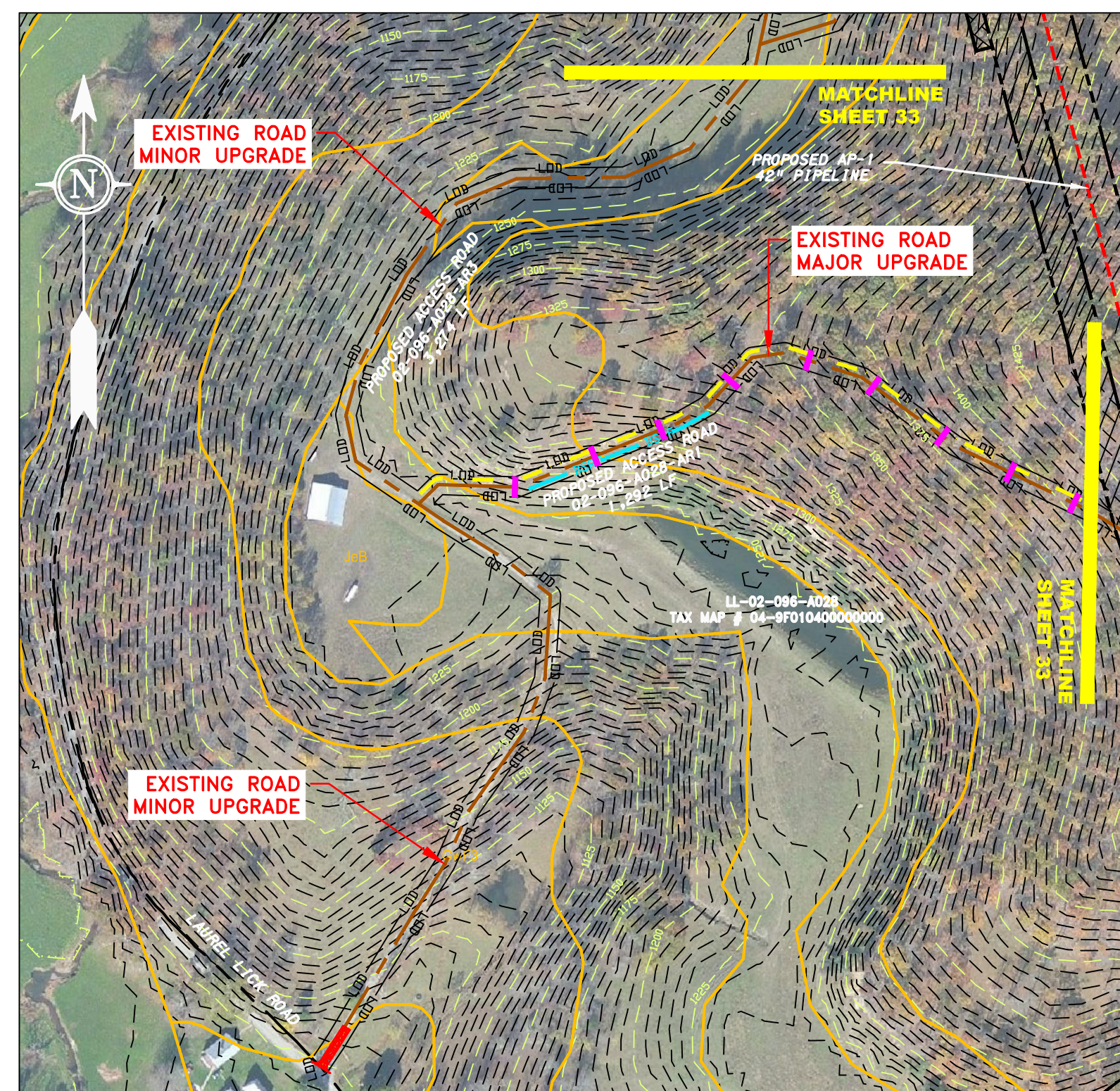
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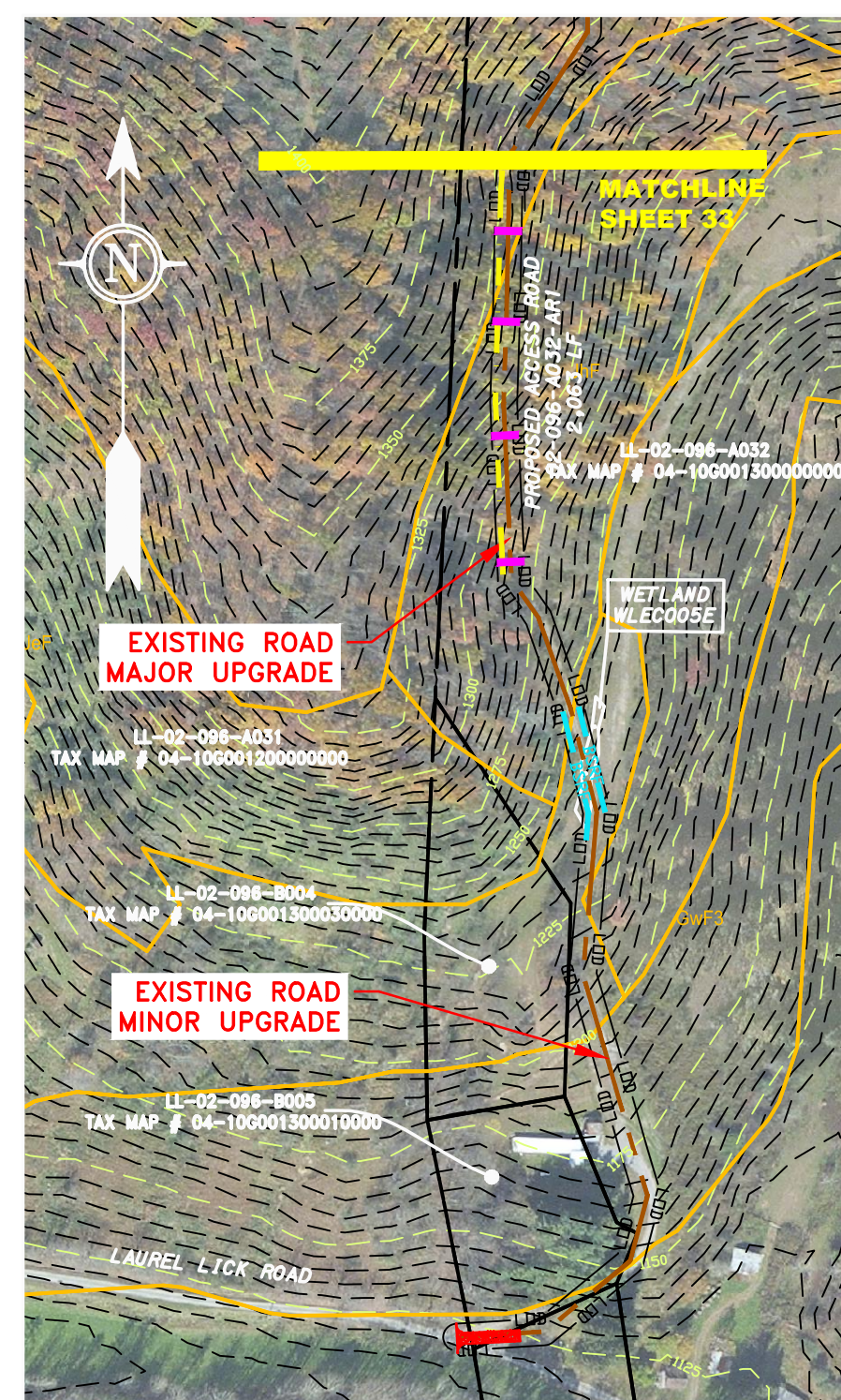
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DETAIL 1



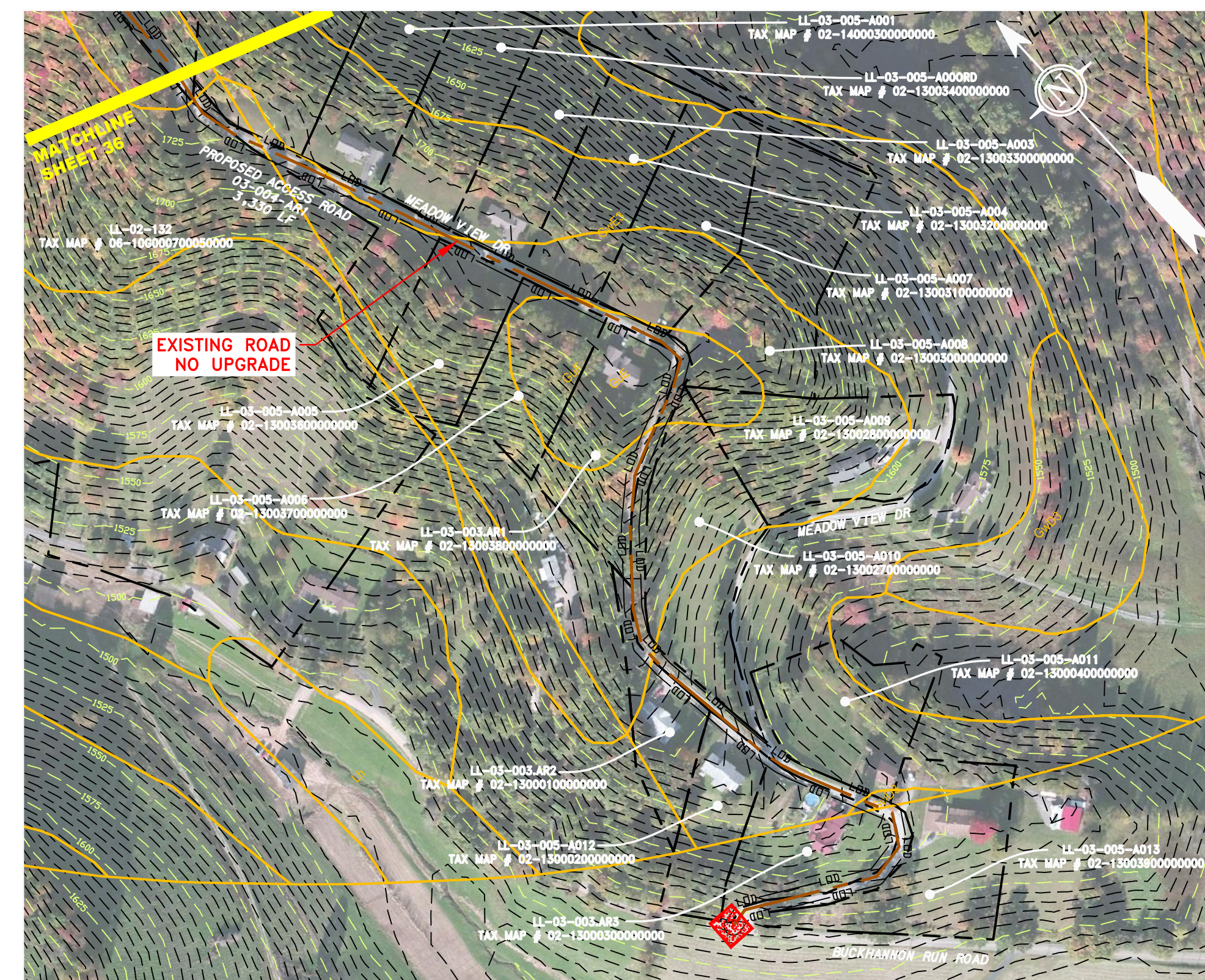
ACCESS ROAD
DETAIL 2



ACCESS ROAD
DETAIL 3



ACCESS ROAD
DETAIL 4



ACCESS ROAD
DETAIL 5

LEGEND

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

[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

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

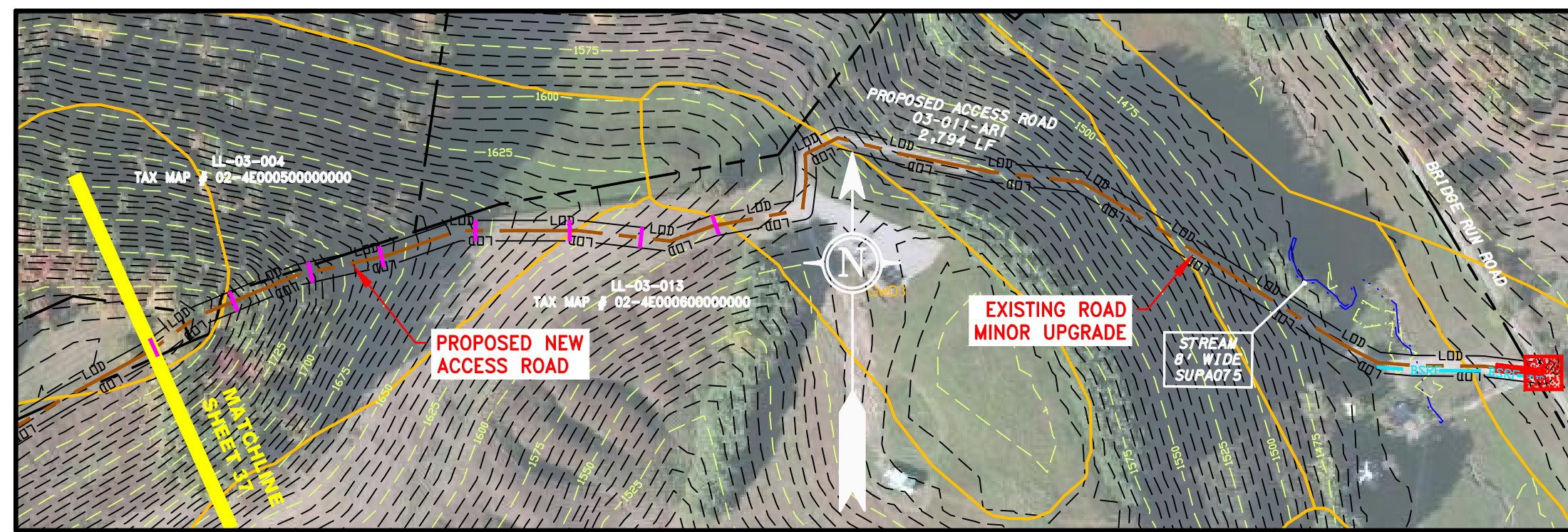
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[Symbol]	TEMPORARY WATERBAR/SLOPE BREAKER	[Symbol]	BSRF	[Symbol]	BELTED SILT RETENTION FENCE (BSRF)
[Symbol]	TRENCH BREAKER/PLUG	[Symbol]	111.03	[Symbol]	SUPER SILT FENCE
[Symbol]	TRENCH BREAKER/PLUG BLEEDER DRAIN AND OUTLET	[Symbol]	[Symbol]	[Symbol]	COMPOST FILTER SOCK
[Symbol]	STREAM CROSSING	[Symbol]	[Symbol]	[Symbol]	SEDIMENT BARRIER IDENTIFICATION
[Symbol]	USFWS STREAM CROSSING WITH ENHANCED CONTROLS	[Symbol]	[Symbol]	[Symbol]	ORANGE SAFETY FENCE
[Symbol]	SEEP	[Symbol]	[Symbol]	[Symbol]	ROADSIDE DITCH
[Symbol]	CONSTRUCTION ENTRANCE WITH DITCH CULVERT AS NEEDED	[Symbol]	[Symbol]	[Symbol]	SOIL TYPE
[Symbol]	CULVERT/WATERBAR	[Symbol]	[Symbol]	[Symbol]	TYPICAL BIC SLOPE CATEGORY SLOPE INCLINATION

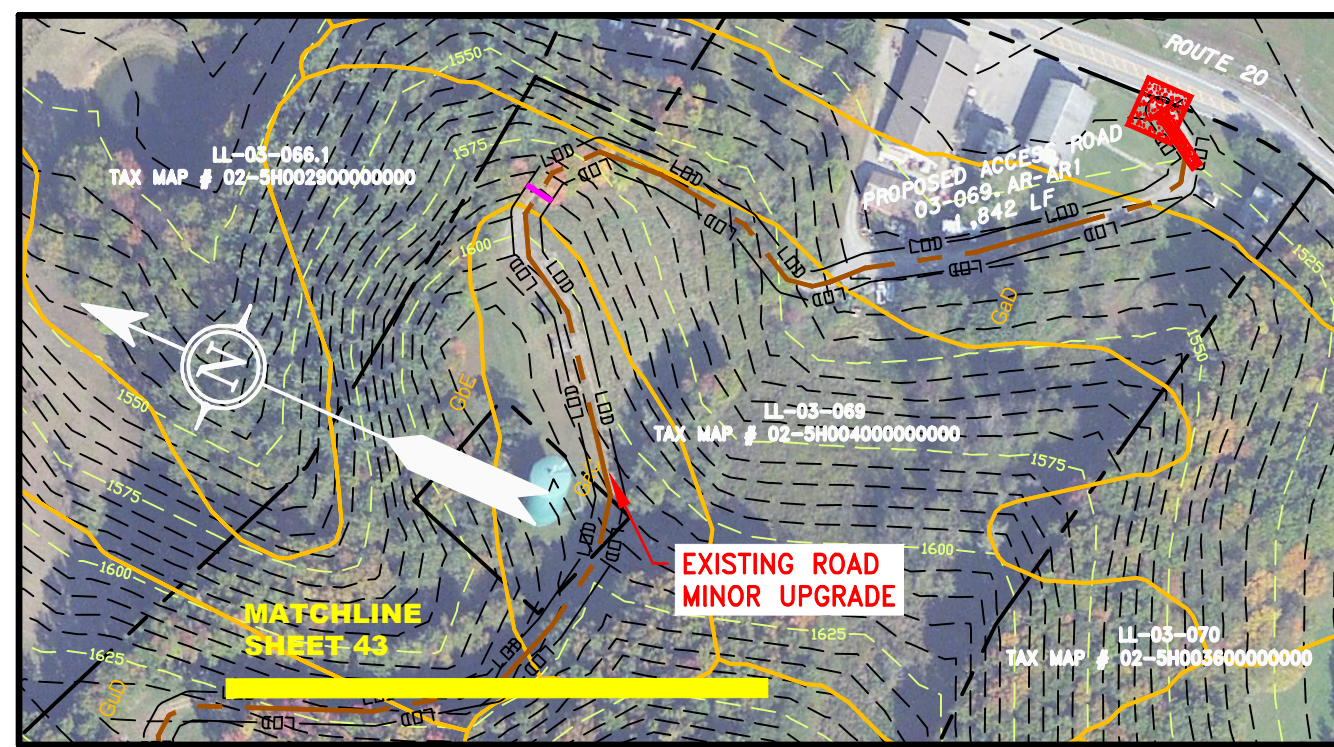
- NOTES:**
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AP-1 PIPELINE ACCESS ROADS 02-096-A001-AR1, 02-096-A001-AR2, 02-096-A001-AR1.1, 02-096-A003-AR2, 02-096-A005-AR1, 02-096-A016-AR1, 02-096-A028-AR3, 0296-A028-AR1, 02-096-A039-AR1 & 03-004-AR1 LEWIS & UPSHUR COUNTY, WEST VIRGINIA									
ATLANTIC COAST PIPELINE, LLC C/O DOMINION TRANSMISSION, INC. 925 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330									
SCALE: AS SHOWN DATE: 6/5/17 DRAWN: GOS CHECKED: DLH APPROVED: NET	<table border="1"> <tr> <th colspan="2">REVISIONS</th> </tr> <tr> <th>NO.</th> <th>DESCRIPTION</th> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </table>	REVISIONS		NO.	DESCRIPTION				
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NO.	DESCRIPTION								
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TASK NO. SUB TASK NO. 005 00									
GROUP ID DRAWING NO. D AR-103									
3 OF 31									

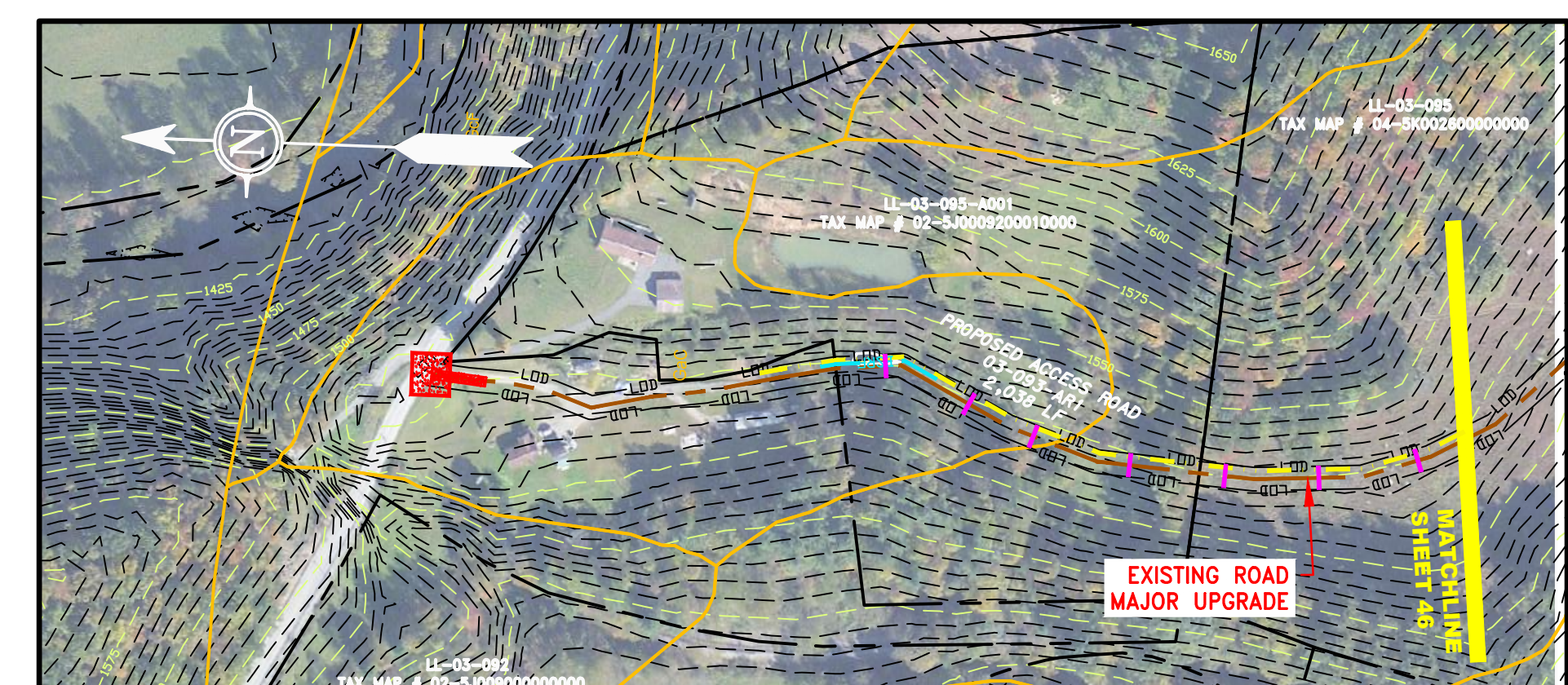
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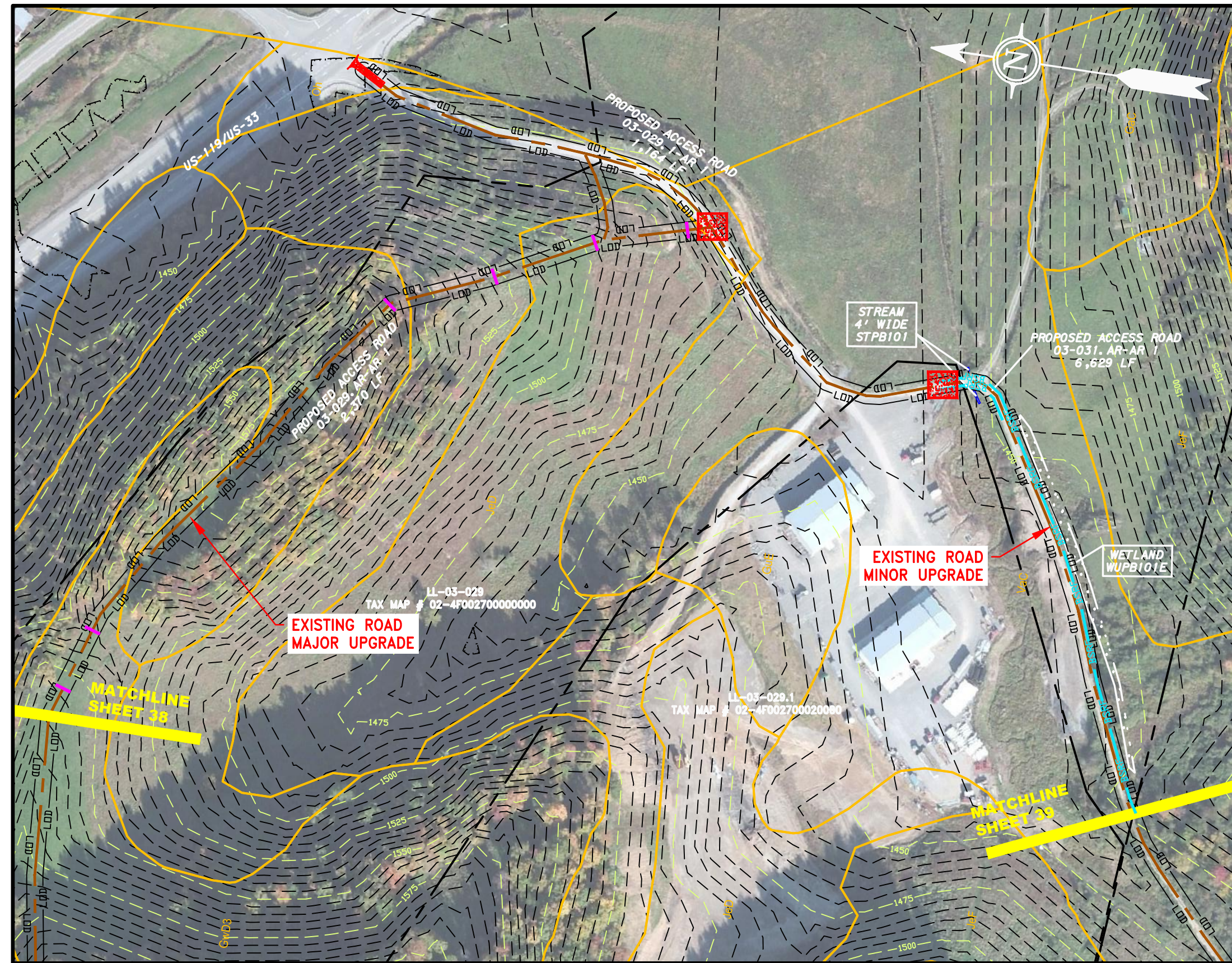
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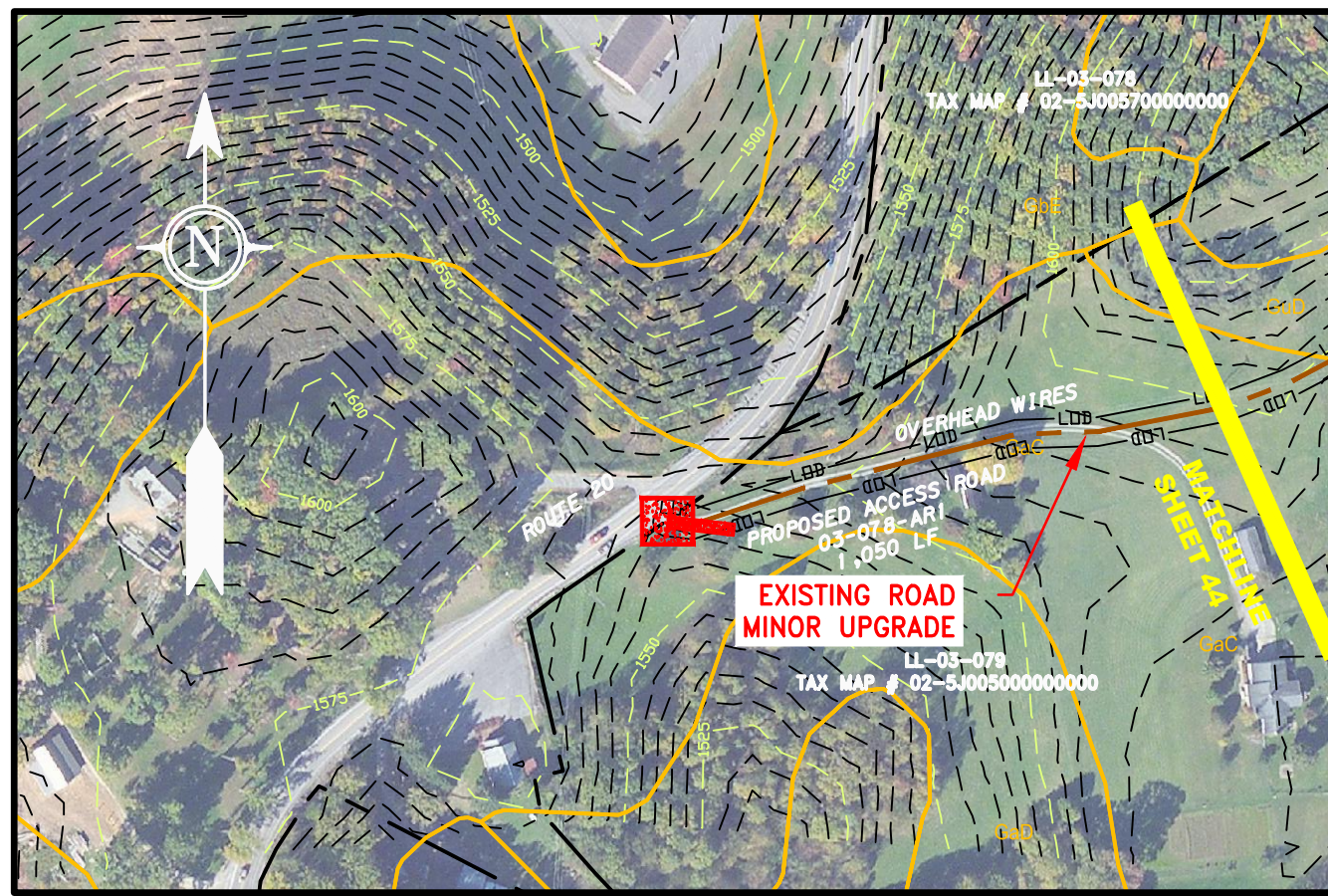
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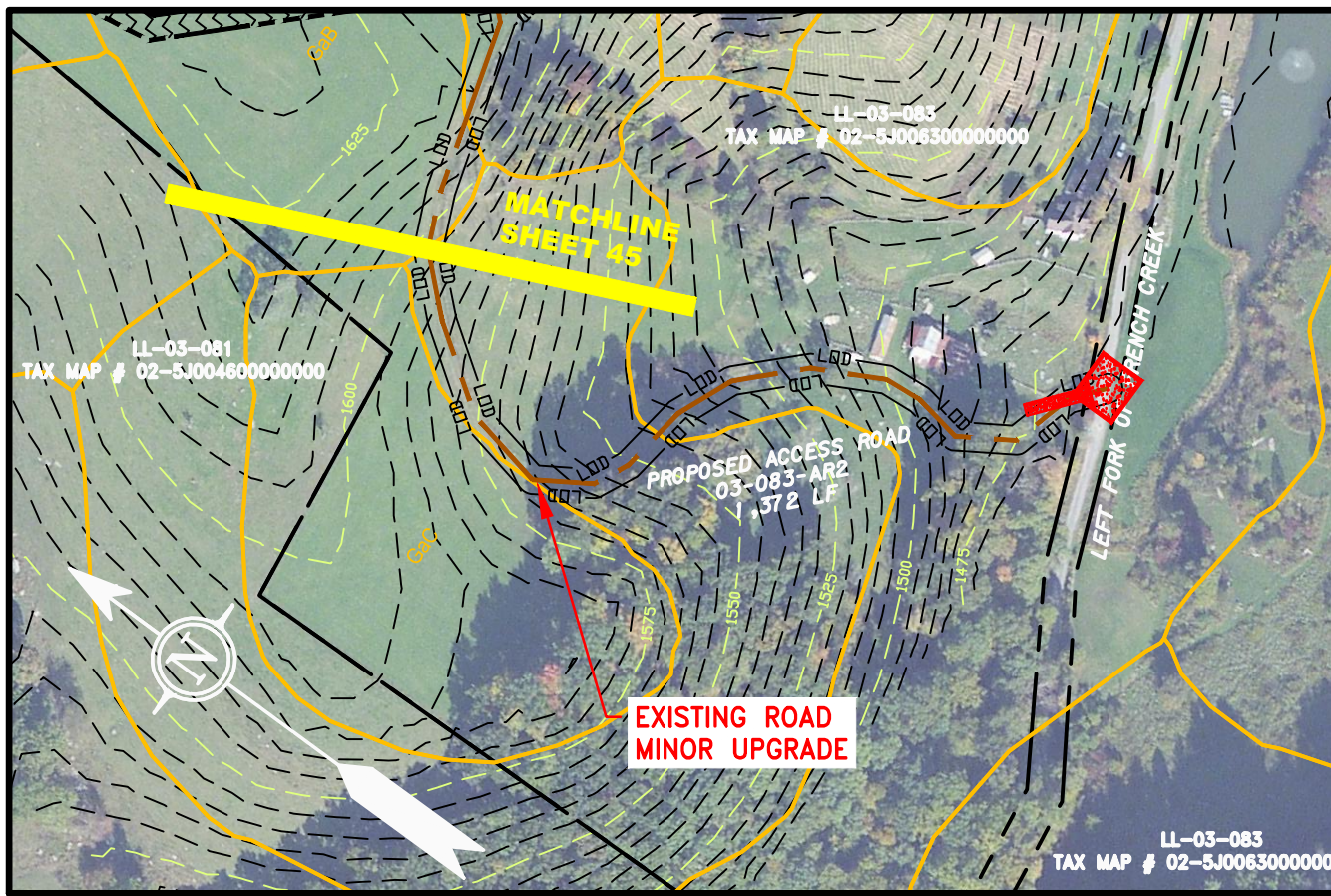
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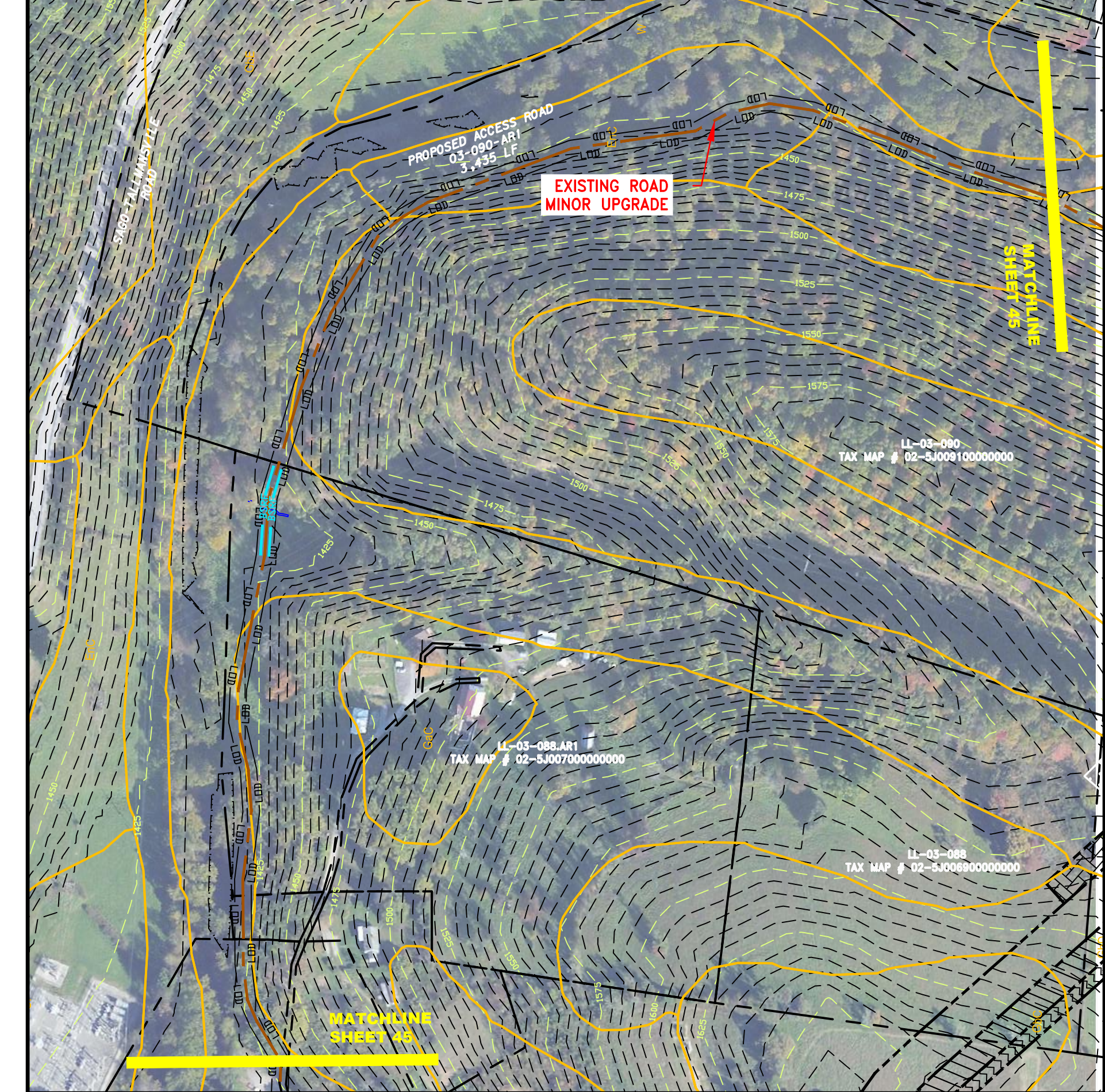
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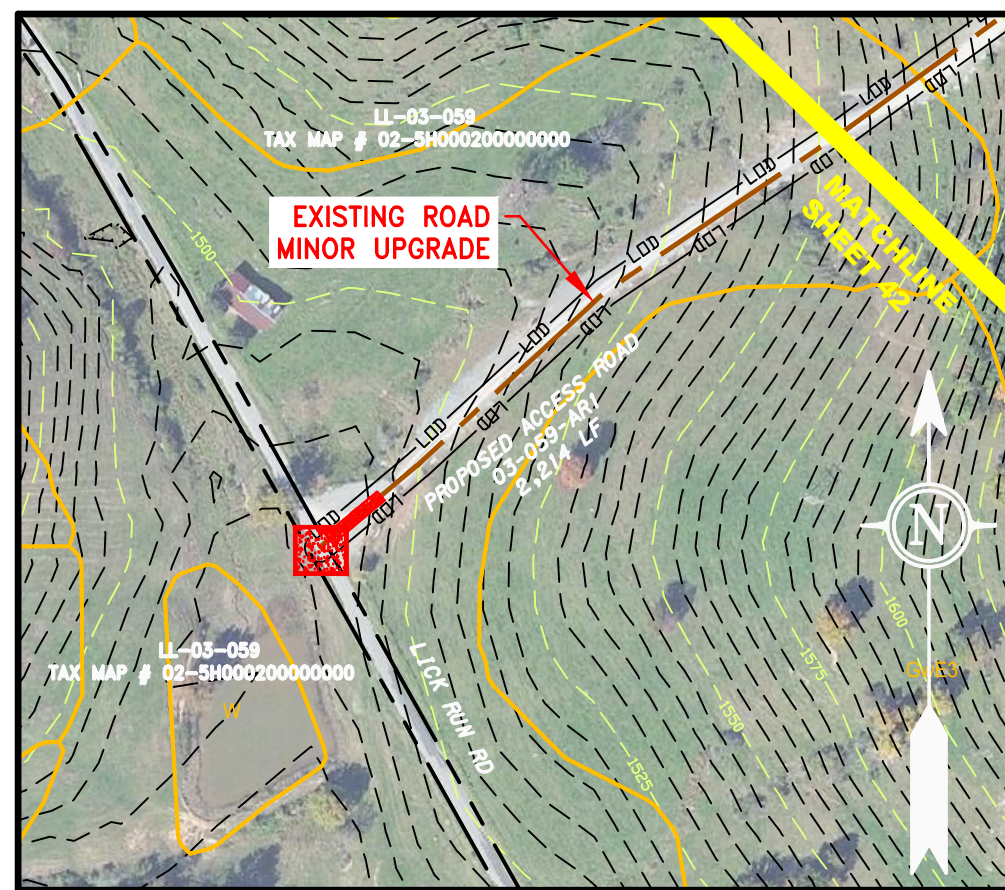
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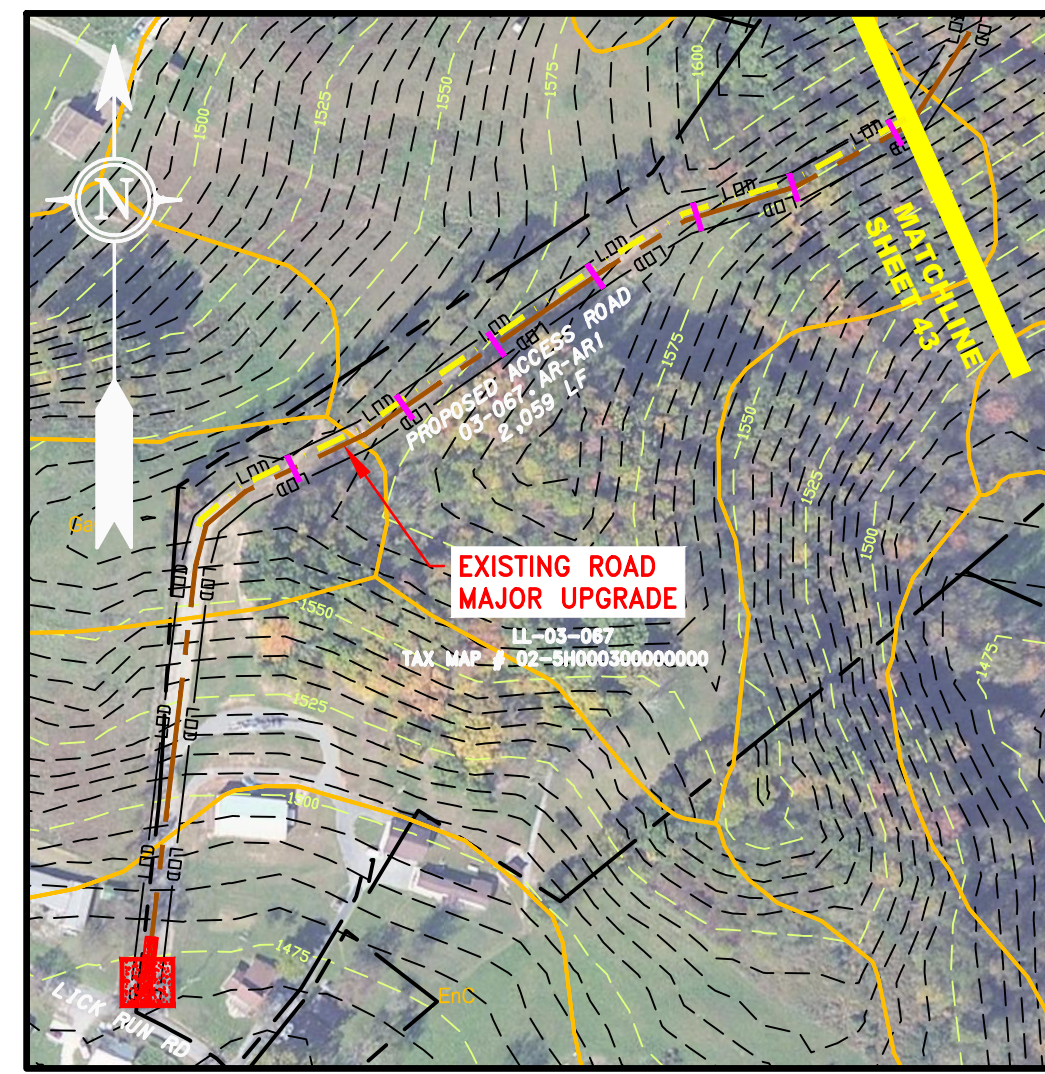
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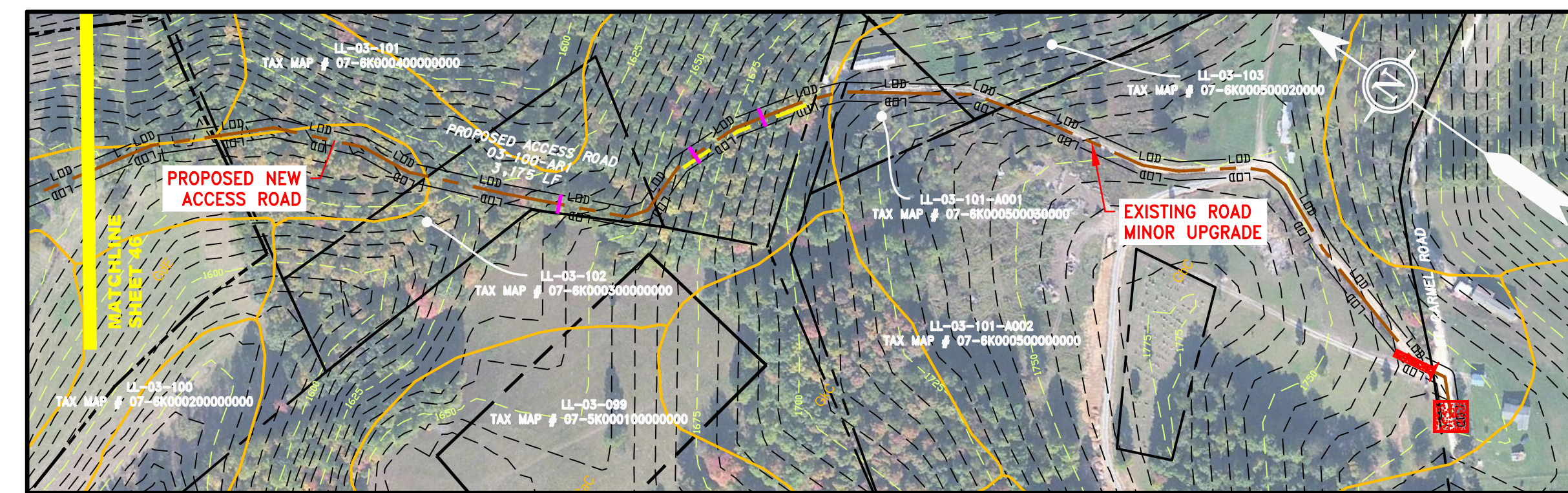
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ACCESS ROAD DETAIL 3

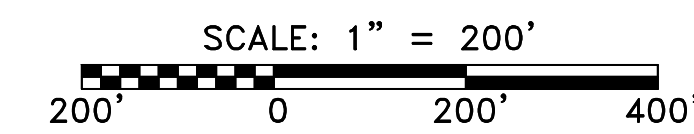


ACCESS ROAD DETAIL 4



ACCESS ROAD DETAIL 9

	PROPERTY LINE		STORM SEWER		EXTRA WORK SPACE
	FENCE		UNDERGROUND ELECTRIC		TOPSOIL SEGREGATION AREA
	STREAM		WATER LINE		AREA OF NO DISTURBANCE
	EXISTING GAS PIPELINE		SANITARY SEWER		PROPOSED TEMPORARY R.O.W.
	OVERHEAD UTILITY LINES		EDGE OF GRAVEL		WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)
	ACCESS ROAD		PROPOSED PERMANENT EASEMENT		UTILITY POLE
	PROPOSED GAS PIPELINE		PROPOSED GAS PIPELINE (NO GROUND SURVEY)	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		SUPER SILT FENCE
	TRENCH BREAKER/PLUG BLEEDER		COMPOST FILTER SOCK
	STREAM CROSSING		SEDIMENT BARRIER
	USFWS STREAM CROSSING WITH ENHANCED CONTROLS		ORANGE SAFETY FENCE
	SEEP		ROADSIDE DITCH
	CONSTRUCTION ENTRANCE WITH DITCH		SOIL TYPE
	CULVERT/WATERBAR		TYPICAL BIC SLOPE CATEGORY

- 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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 - 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 SLOPES BAND.
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 - ERM IS SOLELY RESPONSIBLE FOR THE NATURE AND LOCATION OF THE EXISTING 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.	DATE	DWNG.	CHKD.	APPROD.	DESCRIPTION

AP-1 PIPELINE ACCESS ROADS

 03-011-AR1, 03-029-1-AR1, 03-029-AR-AR1, 03-031-AR-AR-1, 03-059-AR1,

 03-067-AR-AR1, 03-069-AR-AR1, 03-078-AR1, 03-083-AR2, 03-090-AR1, 03-093-AR1 &

 03-100-AR1

 UPPSHUR COUNTY, WEST 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: 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

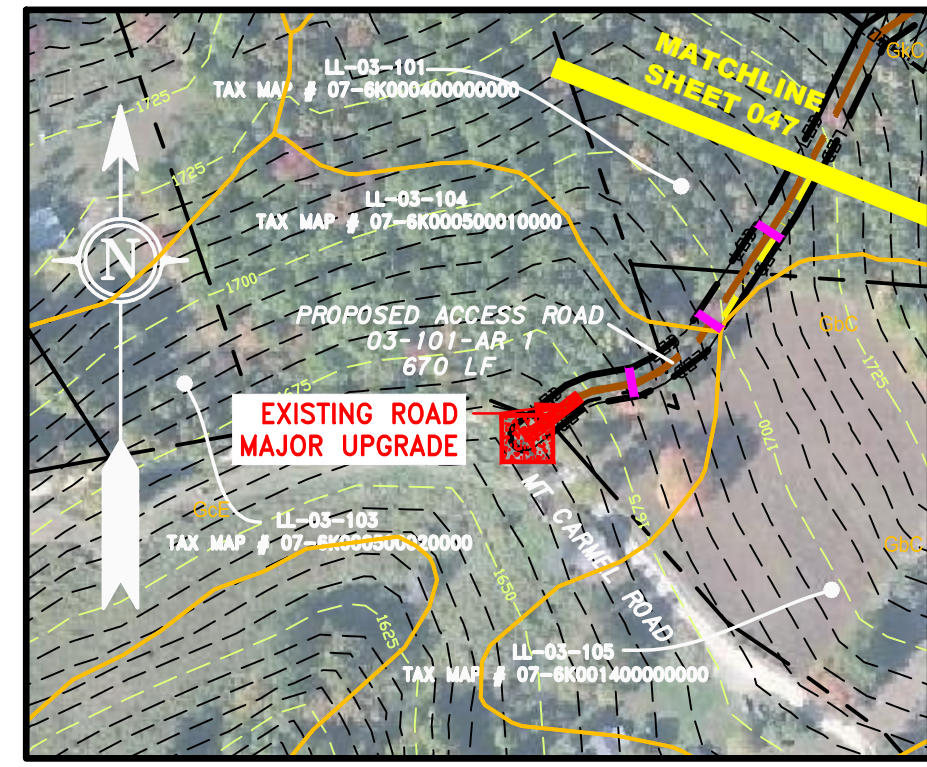
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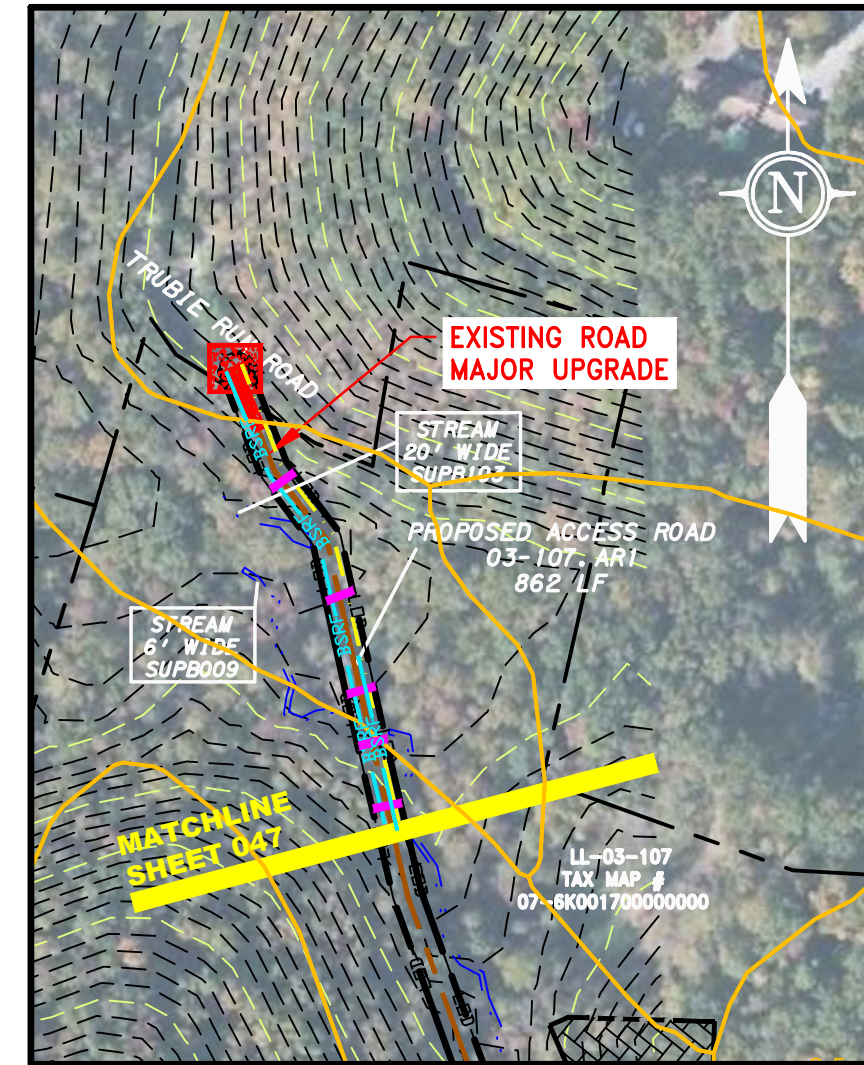
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6/5/2017 2:38 PM

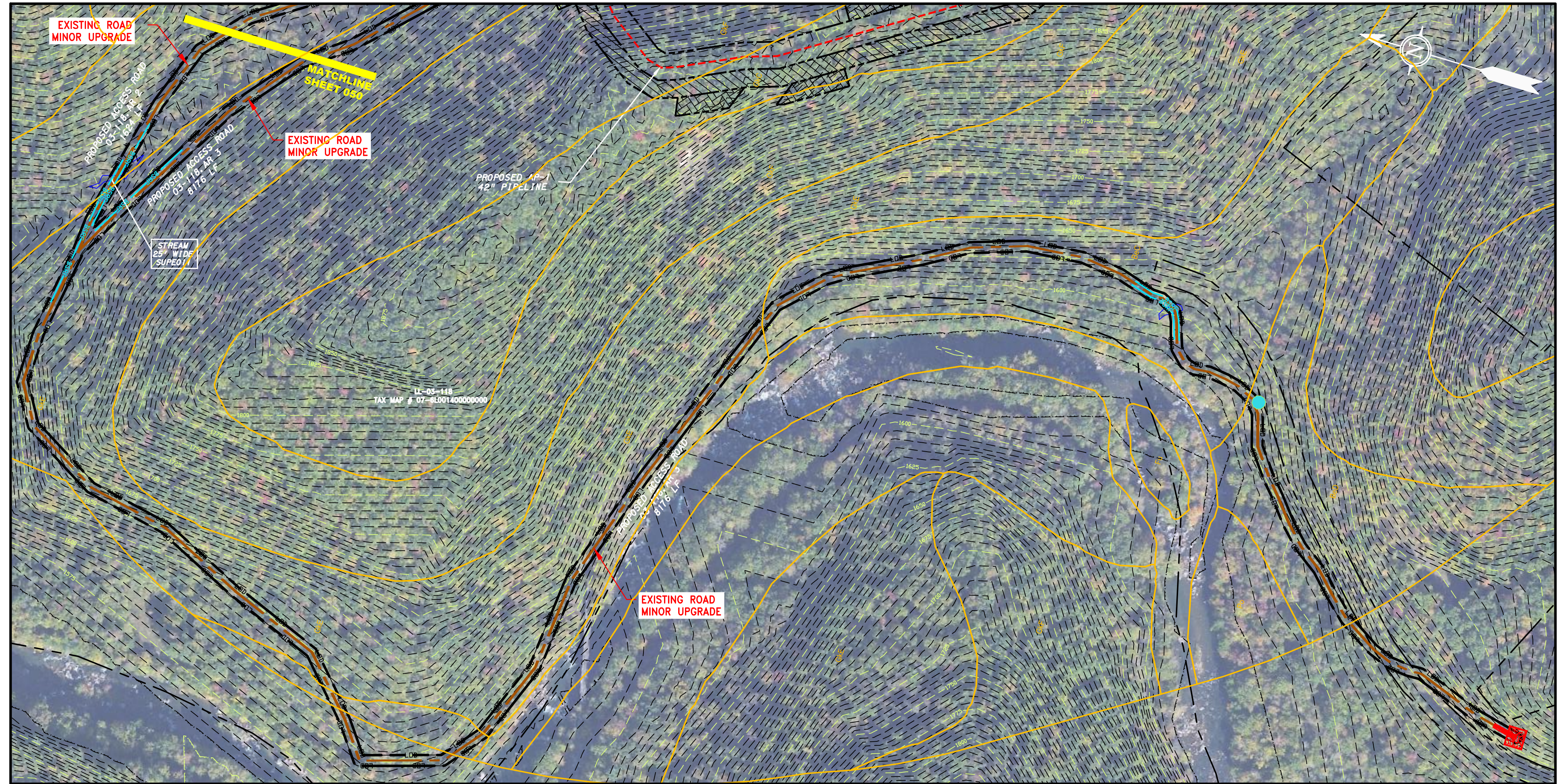
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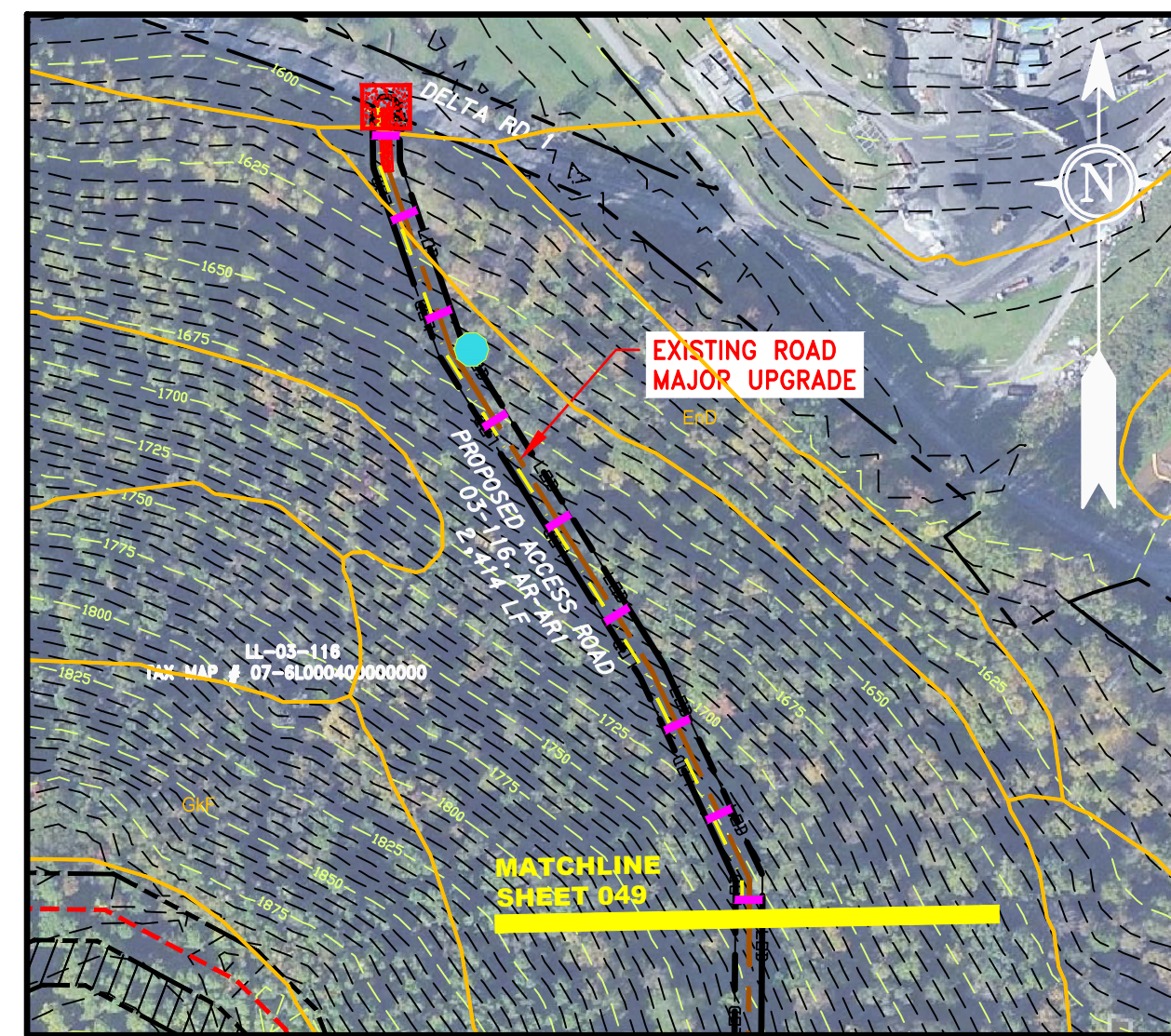
ACCESS ROAD
DETAIL 1



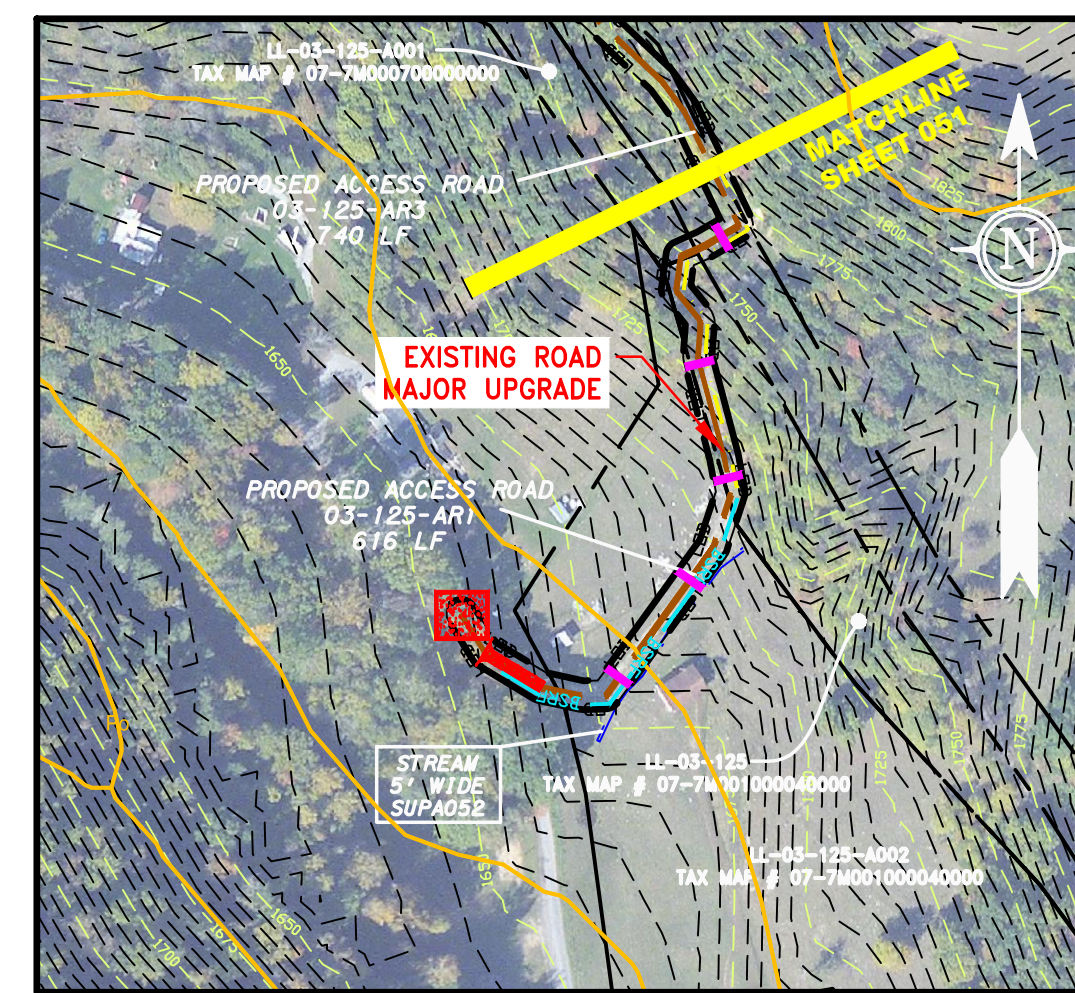
ACCESS ROAD
DETAIL 2



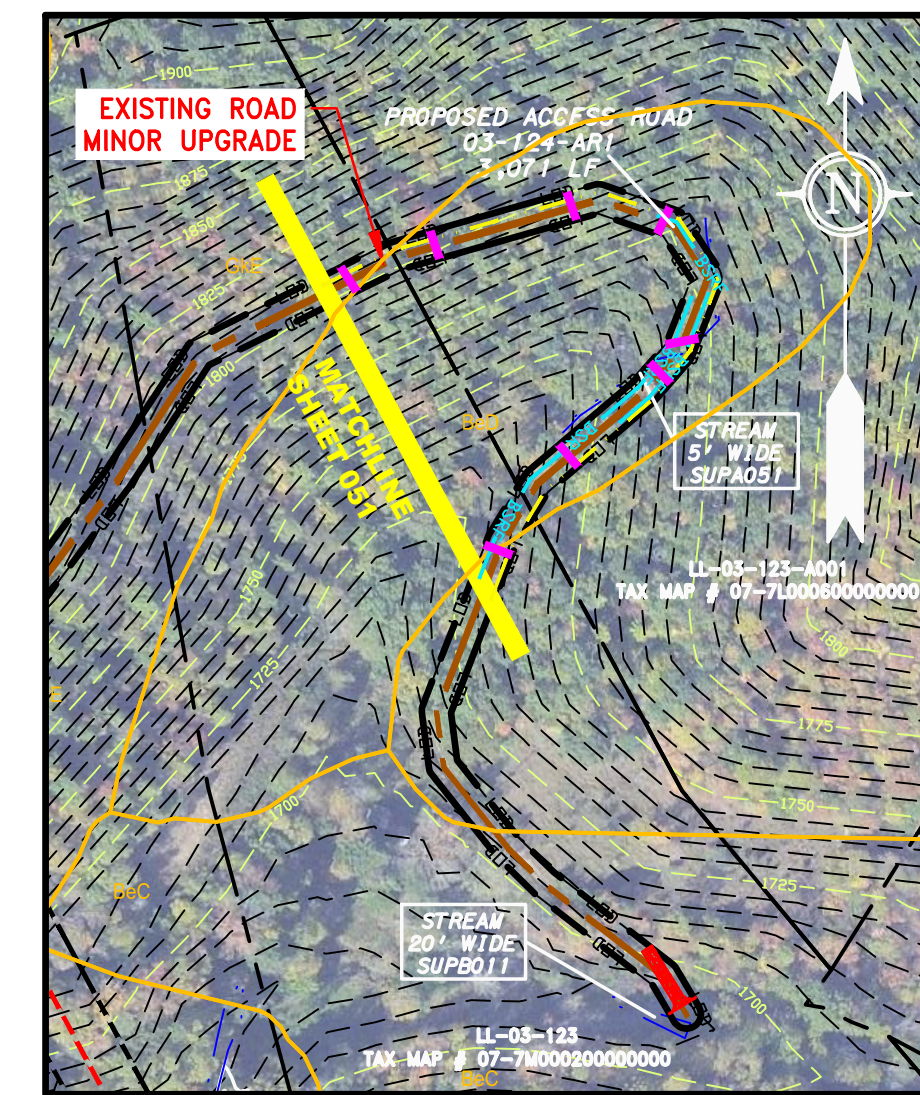
ACCESS ROAD
DETAIL 3



ACCESS ROAD
DETAIL 4



ACCESS ROAD
DETAIL 5



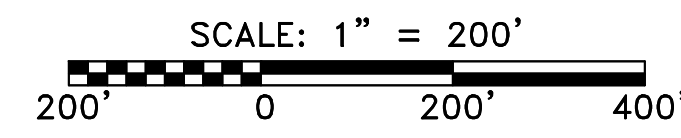
ACCESS ROAD
DETAIL 6

LEGEND

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

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

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

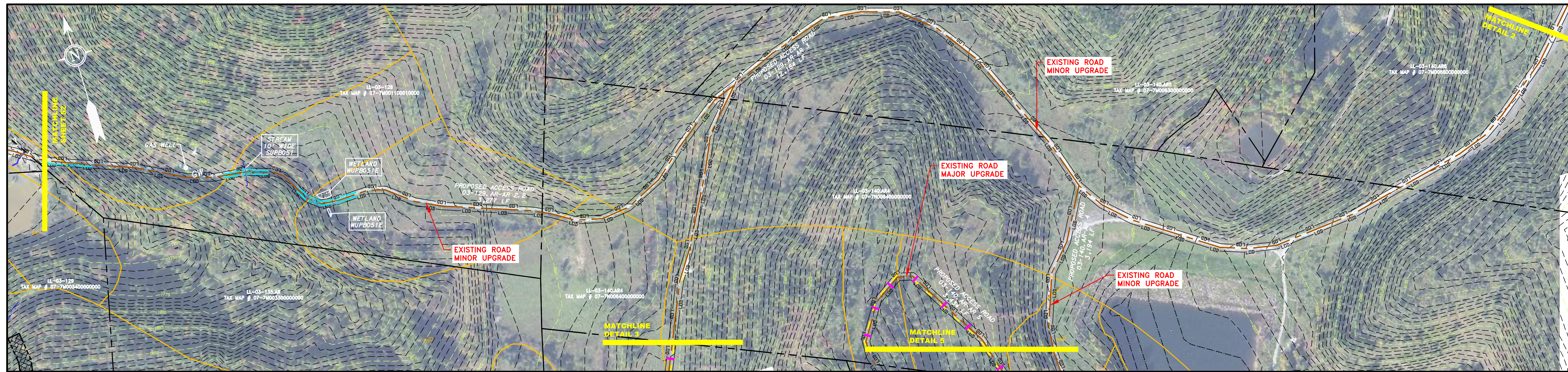


[Triangle]	PERMANENT WATERBAR/SLOPE BREAKER	[Line]	LIMIT OF DISTURBANCE
[Triangle]	TEMPORARY WATERBAR/SLOPE BREAKER	[Line]	BELTED SILT RETENTION FENCE (BSRF)
[Square]	TRENCH BREAKER/PLUG	[Line]	SUPER SILT FENCE
[Square]	TRENCH BREAKER/PLUG BLEEDER	[Line]	COMPOST FILTER SOCK
[Circle]	DRAIN AND OUTLET	[Line]	SEDIMENT BARRIER IDENTIFICATION
[Diamond]	STREAM CROSSING	[Line]	ORANGE SAFETY FENCE
[Diamond]	USFWS STREAM CROSSING WITH ENHANCED CONTROLS	[Line]	ROADSIDE DITCH
[Circle]	SEEP	[Line]	SOIL TYPE
[Triangle]	CONSTRUCTION ENTRANCE WITH DITCH	[Line]	CULVERT
[Triangle]	CULVERT WATERBAR	[Line]	TYPICAL BIC SLOPE CATEGORY

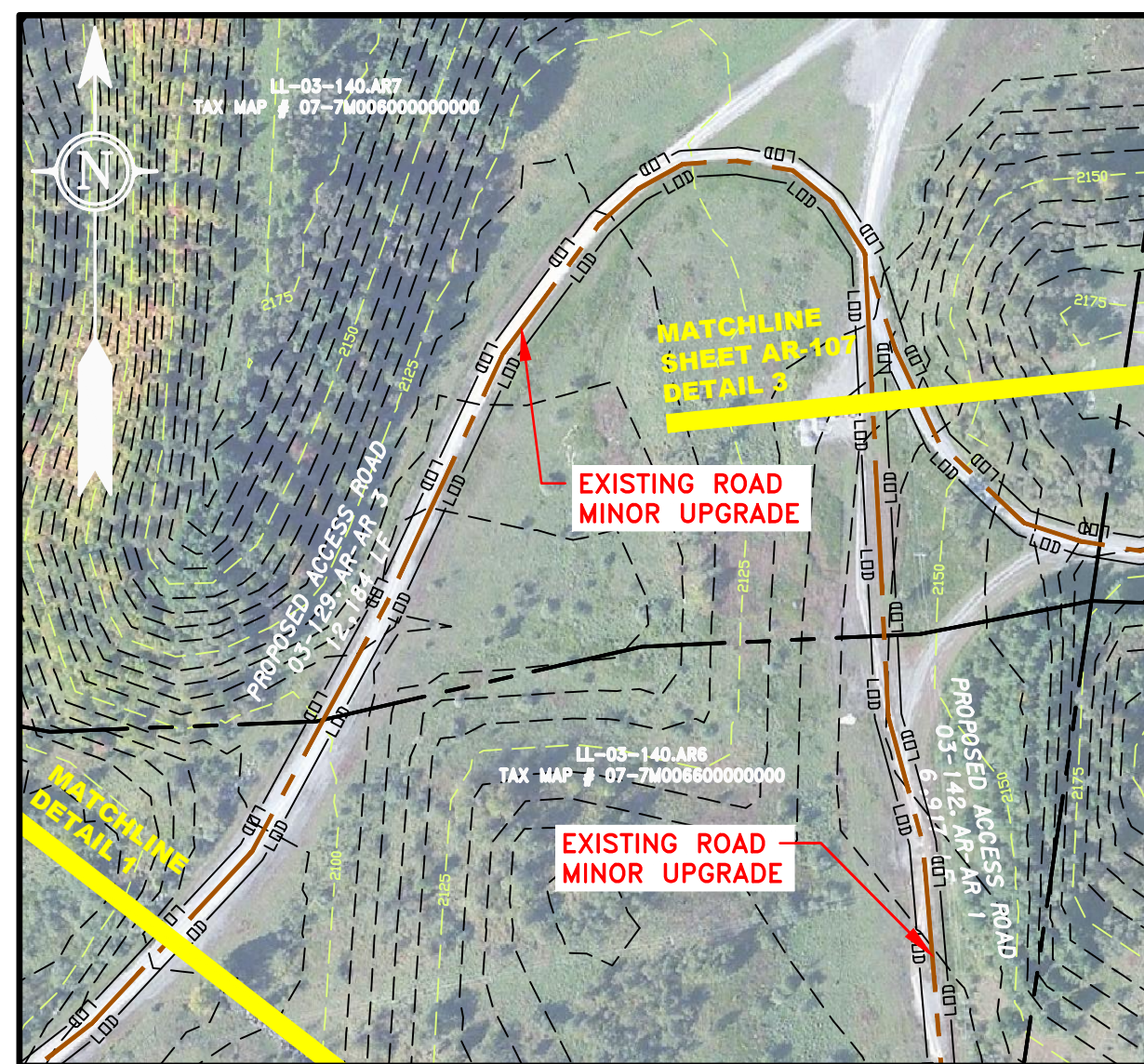
- NOTES:**
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 - ALL STATIONING SHOWN IS SLOPE STATIONING.
 - SILT FENCE AND FILTER SOCK SHALL BE INSTALLED PARALLEL TO CONTOUR TO EXTENT PRACTICABLE IN ACCORDANCE WITH STANDARD DETAIL.
 - BEST IN CLASS (BIC) STEEP SLOPE CATEGORY INFORMATION CAN BE FOUND 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 SLOPES BAND.
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J:\2665 -GAI\WORK ORDER 02 - SOUTHEAST PIPELINE (SECTION 1)\ACCESS ROAD SHEETS\WBE_CHK1_SPREAD_1_CAS_AR-105.DWG

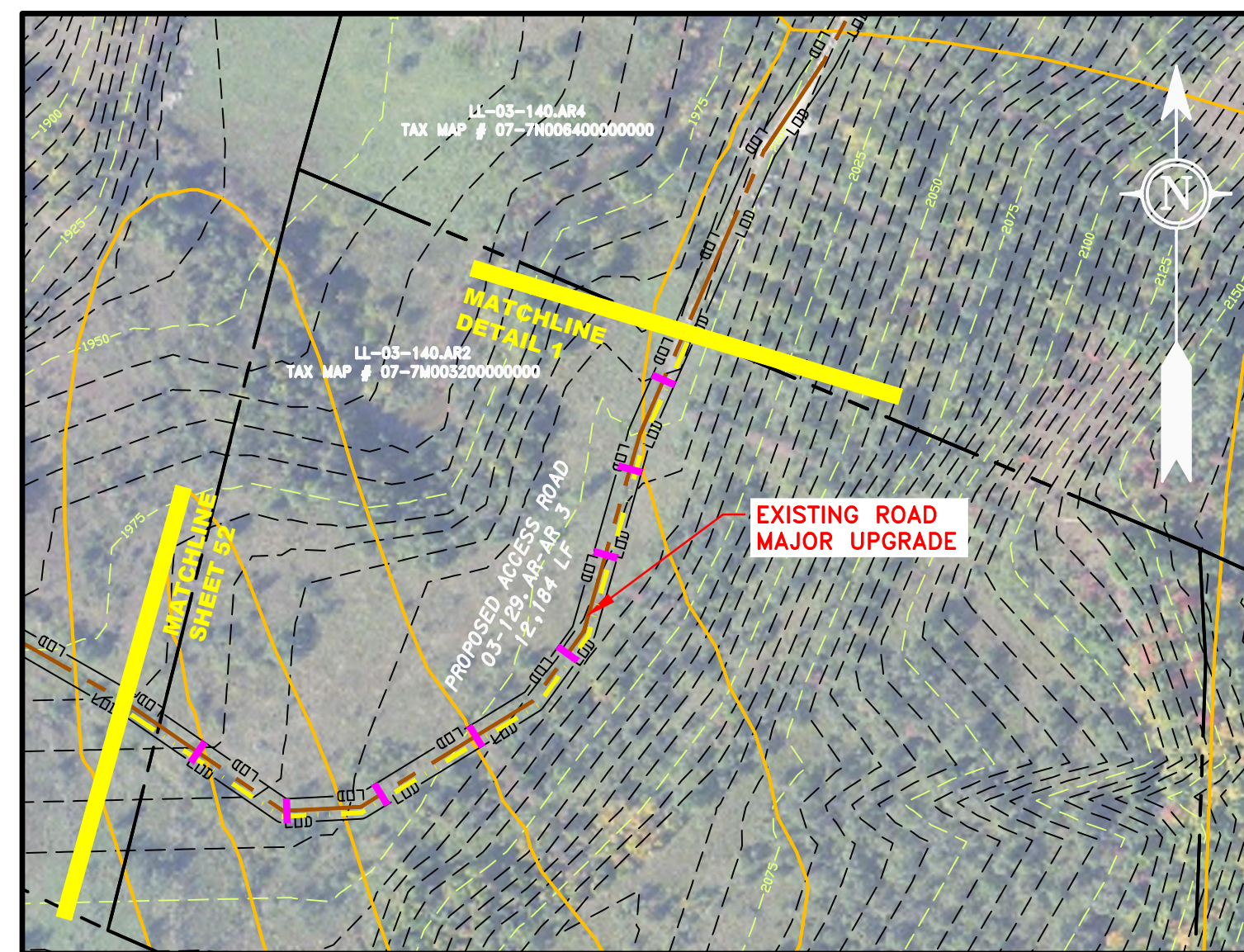
AP-1 PIPELINE ACCESS ROADS 03-101-AR1, 03-107-AR1, 03-116-AR-AR1, 03-118-AR3, 03-124-AR1 & 03-125-AR1, 03-118-AR2 UPSHUR COUNTY, WEST VIRGINIA	
ATLANTIC COAST PIPELINE, LLC C/O DOMINION TRANSMISSION, INC. 925 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330	
SCALE:	AS SHOWN
DATE:	6/5/17
DRAWN:	CLM
CHECKED:	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.	005
SUB TASK NO.	00
GROUP ID	D
DRAWING NO.	AR-105
5	OF 31



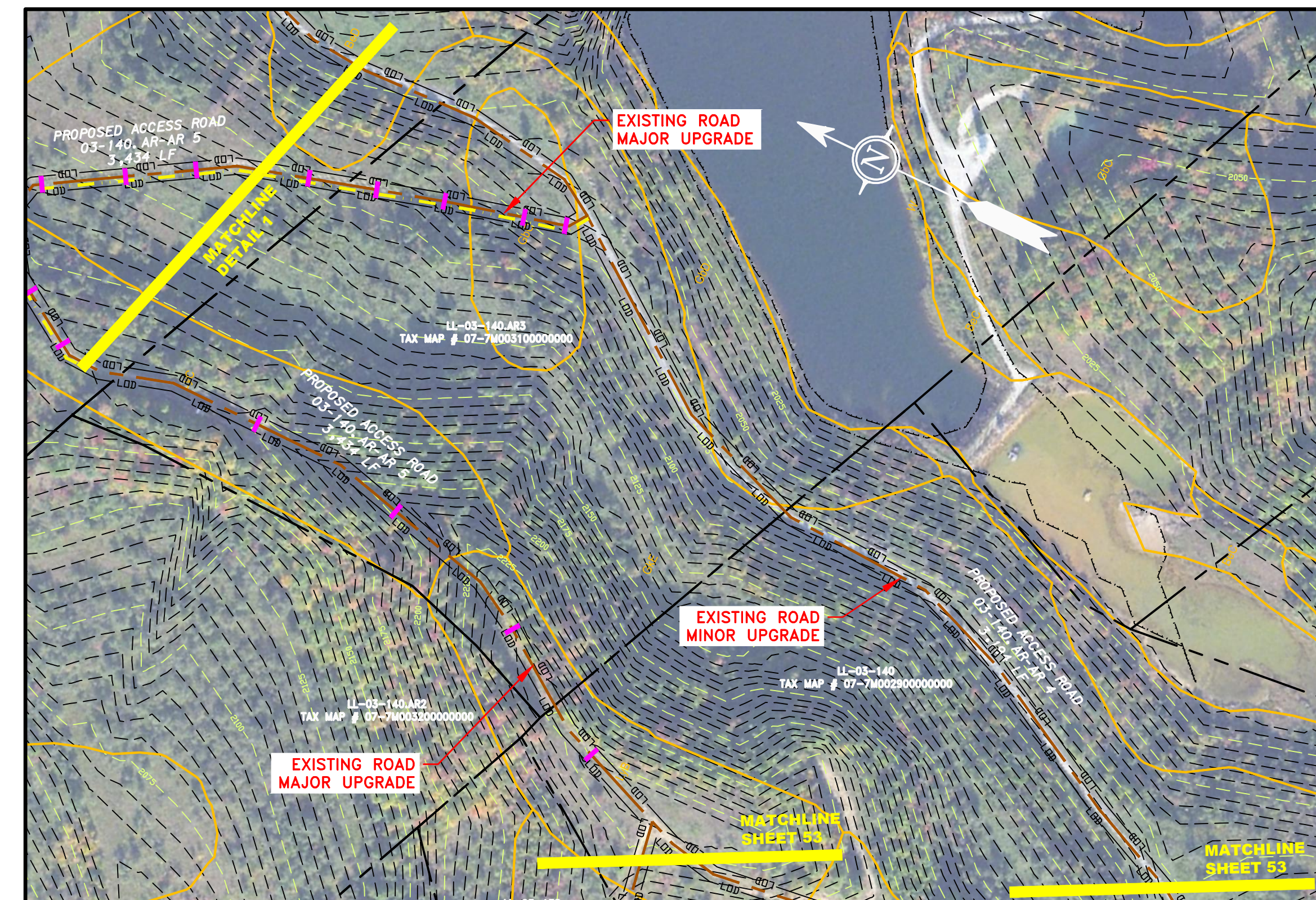
ACCESS ROAD
DETAIL 1



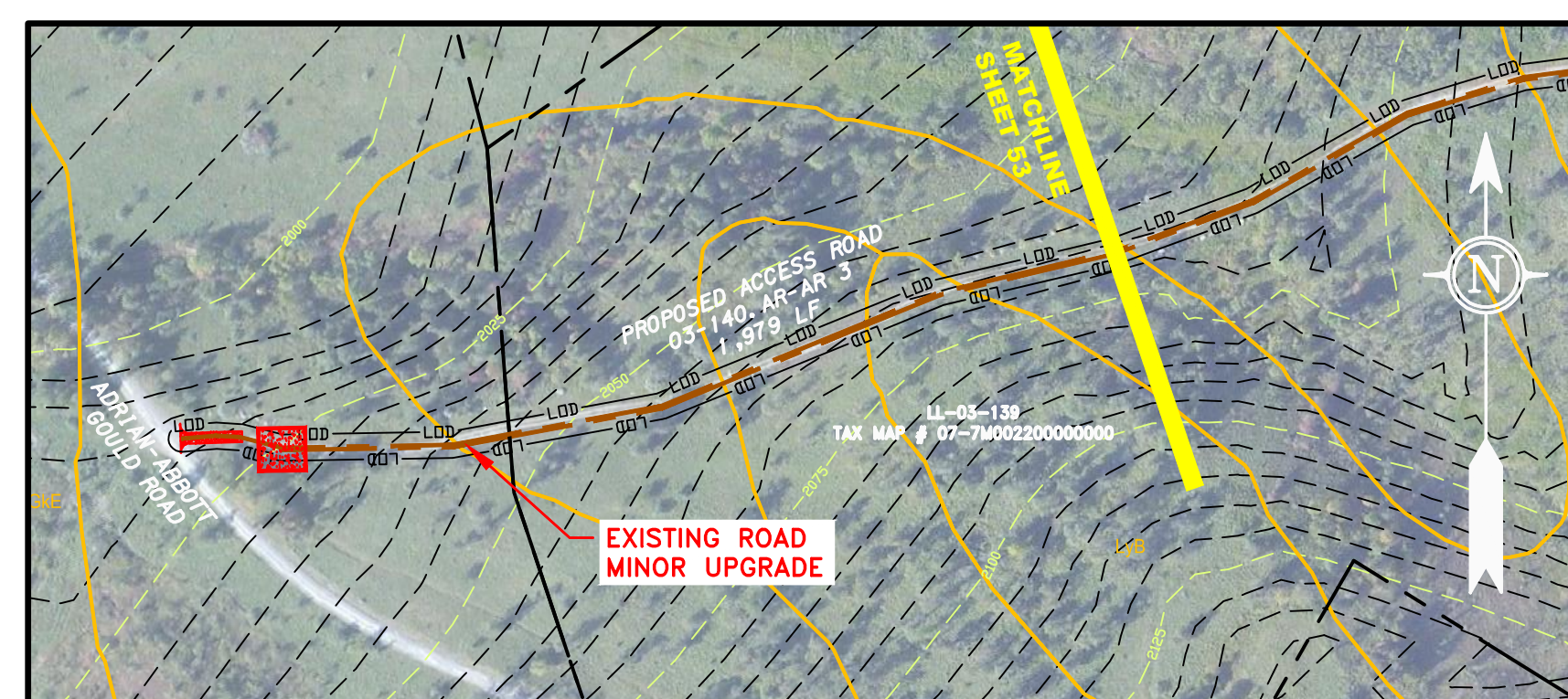
ACCESS ROAD
DETAIL 2



ACCESS ROAD
DETAIL 3



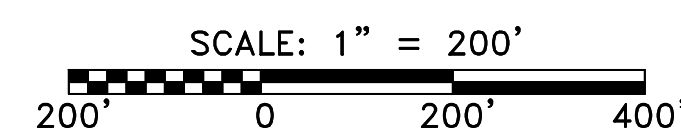
ACCESS ROAD
DETAIL 5



ACCESS ROAD
DETAIL 4

LEGEND	
—	PROPERTY LINE
- - -	STORM SEWER
X - X	FENCE
—	STREAM
G - G	EXISTING GAS PIPELINE
OH	OVERHEAD UTILITY LINES
—	ACCESS ROAD
—	PROPOSED GAS PIPELINE
- - -	PROPOSED GAS PIPELINE (NO GROUND SURVEY)
E	UNDERGROUND ELECTRIC
W	WATER LINE
—	SANITARY SEWER
—	EDGE OF GRAVEL
—	PROPOSED PERMANENT EASEMENT
—	WETLAND
—	EXTRA WORK SPACE
—	AREA OF NO DISTURBANCE
—	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 12).



▼	PERMANENT WATERBAR/SLOPE BREAKER	—	LIMIT OF DISTURBANCE
▼	TEMPORARY WATERBAR/SLOPE BREAKER	—	BELTED SILT RETENTION FENCE (BSRF)
□	TRENCH BREAKER/PLUG	—	SSF
□	TRENCH BREAKER/PLUG BLEEDER	—	COMPOST FILTER SOCK
□	DRAIN AND OUTLET	—	SEDIMENT BARRIER
□	STREAM CROSSING	—	IDENTIFICATION
□	USFWS STREAM CROSSING WITH ENHANCED CONTROLS	—	ORANGE SAFETY FENCE
□	SEEP	—	ROADSIDE DITCH
□	CONSTRUCTION ENTRANCE WITH DITCH	—	SOIL TYPE
□	CULVERT/ WATERBAR	—	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.
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NO.	DATE	CHKD.	APPD.	DESCRIPTION



ERM

AP-1 PIPELINE ACCESS ROADS
03-129.AR-AR2.2, 03-129.AR-AR3, 03-140.AR-AR3,
03-140.AR-AR4 & 03-140.AR-AR5
UPSHUR COUNTY, WEST 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:	GOS
CHECKED:	DLH
APPROVED:	NET

gai consultants

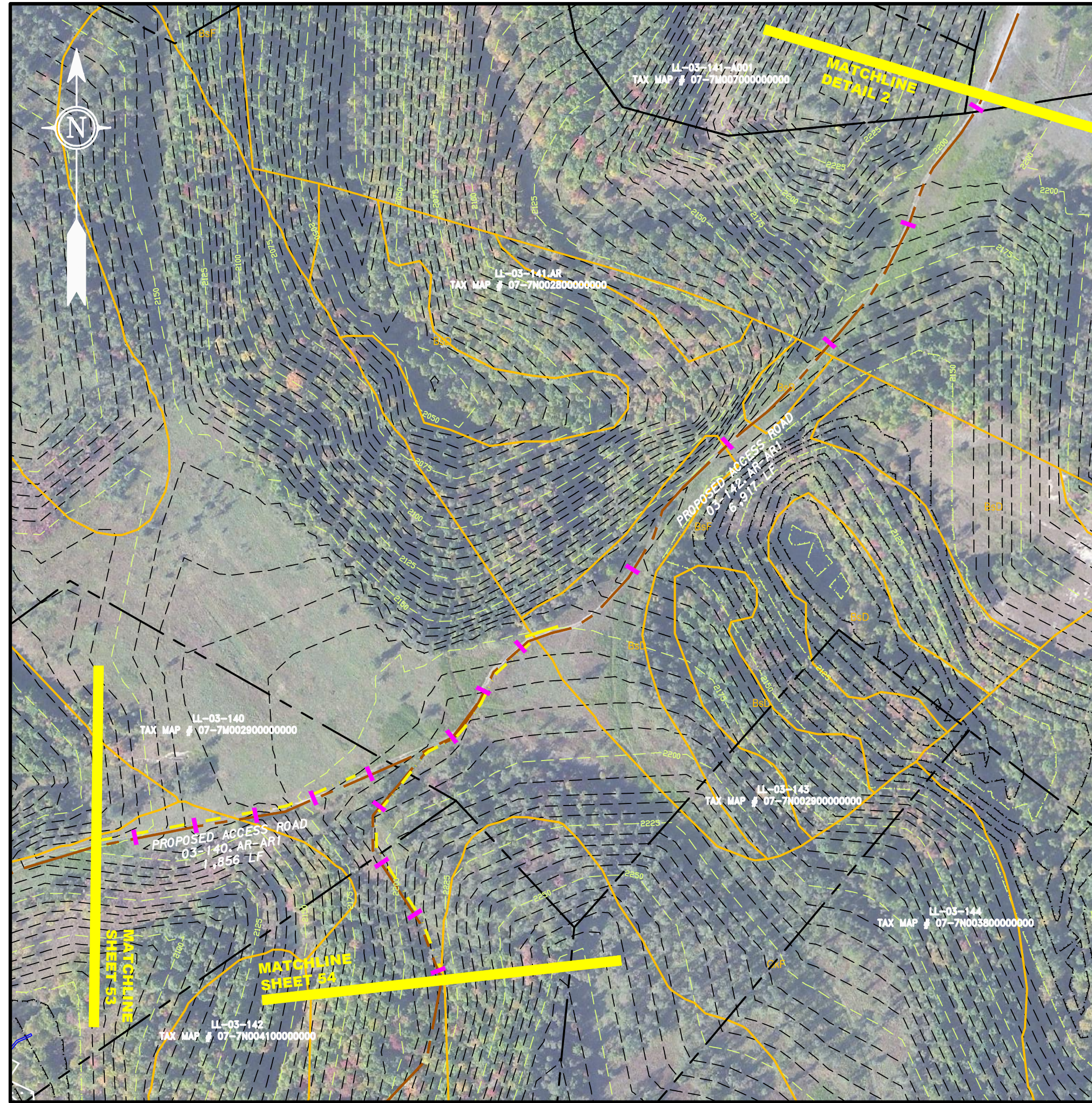
SOUTHPOINTE OFFICE
6000 TOWN CENTER BLVD.
CANONSBURG, PA 15317
724-673-3545

mbe
monahon basin
engineers

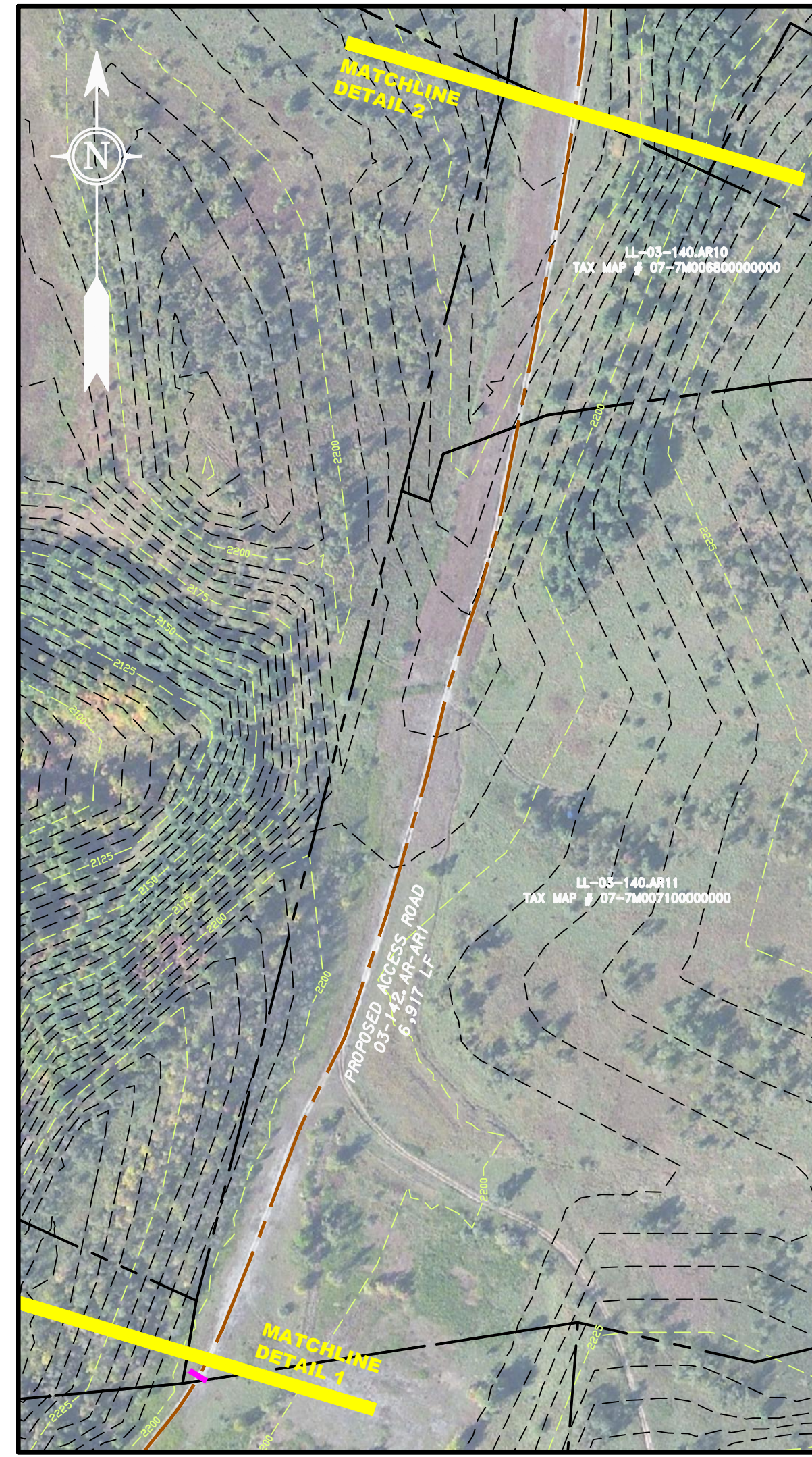
300 BUSINESS CENTER DRIVE
PITTSBURGH, PA 15205
412-788-2433

PROJECT NO./DASH NO.	140468	
TASK NO.	SUB TASK NO.	
005	00	
GROUP ID	DRAWING NO.	
D	AR-106	
6	OF	31

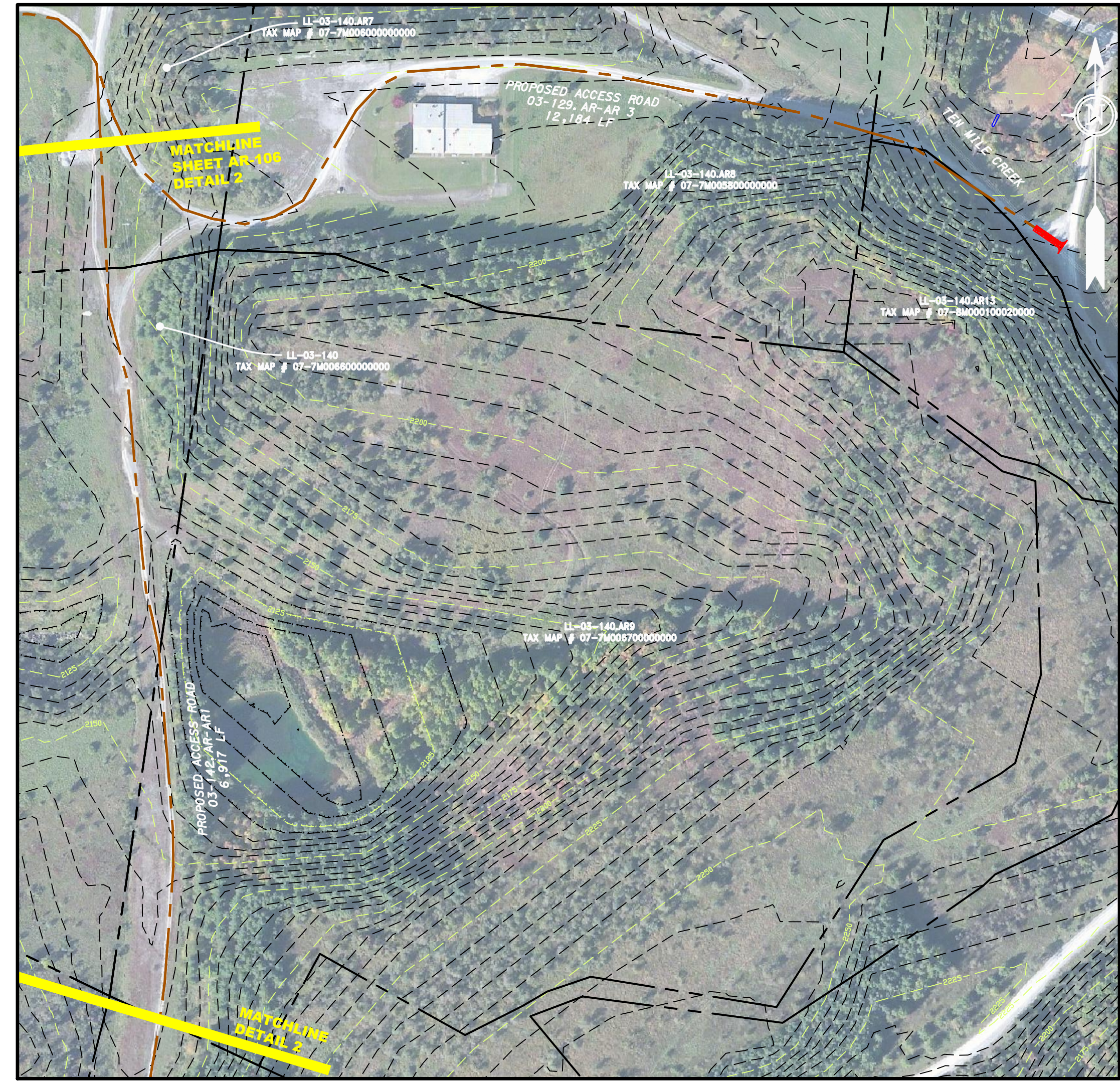
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ACCESS ROAD
DETAIL 1



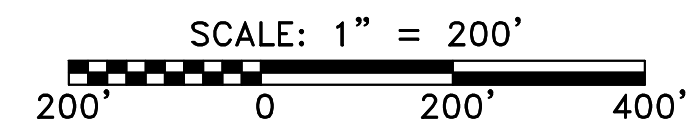
ACCESS ROAD
DETAIL 2



ACCESS ROAD
DETAIL 3

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
—	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
[Diagonal Lines]	TOPSOIL SEGREGATION AREA
[Dashed Box]	PROPOSED TEMPORARY R.O.W.
[Circle]	UTILITY POLE

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



[Triangle]	PERMANENT WATERBAR/SLOPE BREAKER	[Line]	LOD	[Line]	LIMIT OF DISTURBANCE
[Triangle]	TEMPORARY WATERBAR/SLOPE BREAKER	[Line]	BSRF	[Line]	BELTED SILT RETENTION FENCE (BSRF)
[Square]	TRENCH BREAKER/PLUG	[Line]	SSF	[Line]	SUPER SILT FENCE
[Square]	TRENCH BREAKER/PLUG BLEEDER	[Line]	111.03	[Line]	COMPOST FILTER SOCK
[Diamond]	DRAIN AND OUTLET	[Line]	ORANGE SAFETY FENCE	[Line]	SEDIMENT BARRIER
[Diamond]	STREAM CROSSING	[Line]	ROADSIDE DITCH	[Line]	IDENTIFICATION FENCE
[Diamond]	USFWS STREAM CROSSING WITH ENHANCED CONTROLS	[Line]	SOIL TYPE	[Line]	ORANGE SAFETY FENCE
[Diamond]	SEEP	[Line]	A1 E1	[Line]	ROADSIDE DITCH
[Triangle]	CONSTRUCTION ENTRANCE WITH DITCH	[Line]	30-58%	[Line]	SOIL TYPE
[Triangle]	CULVERT AS NEEDED	[Line]		[Line]	TYPICAL BIC SLOPE CATEGORY
[Triangle]	CULVERT WATERBAR	[Line]		[Line]	SLOPE INCLINATION

- NOTES:**
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NO.	DATE	CHKD.	APPD.	DESCRIPTION



ERM

AP-1 PIPELINE ACCESS ROADS
03-140-AR-AR1, 03-142-AR-AR1, 03-129-AR-AR3,
03-159-AR-AR1, 04-002-AR-AR1
RANDOLPH COUNTY, WEST 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:	GOS
CHECKED:	DLH
APPROVED:	NET

gai consultants

SOUTHPOINTE OFFICE
6000 TOWN CENTER BLVD.
CANONSBURG, PA 15317
724-573-3545

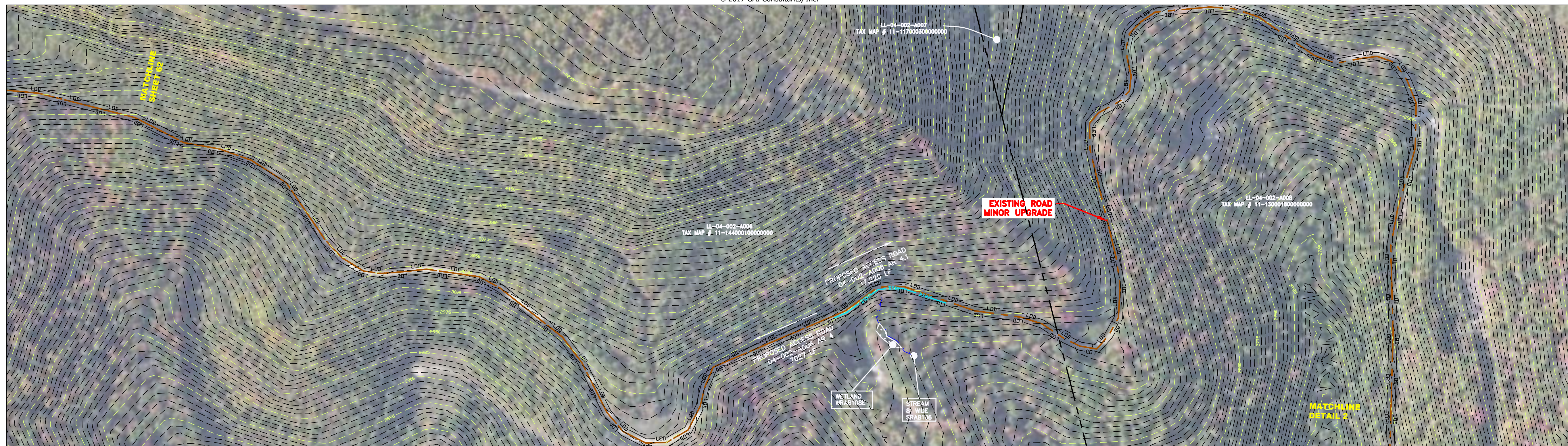
mbe
monahon basin engineers

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

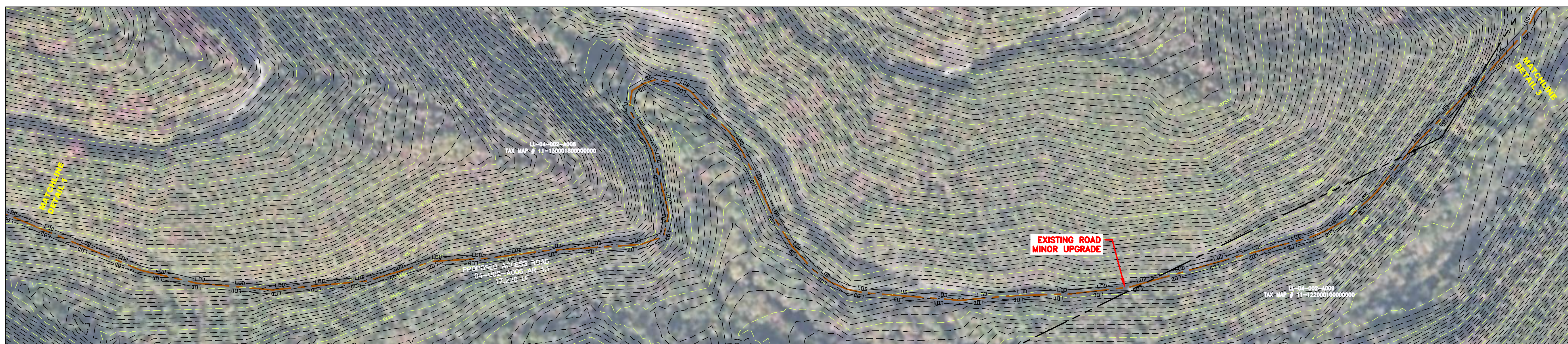
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TASK NO.	005	SUB TASK NO. 00
GROUP ID	D	DRAWING NO. AR-107
7	OF	31

6/5/2017 3:09 PM

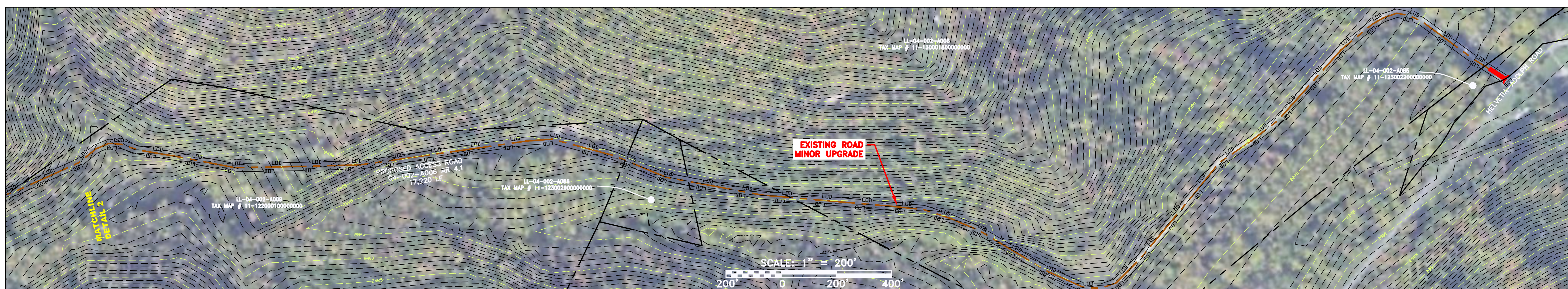
ACCESS ROAD
DETAIL 1



ACCESS ROAD
DETAIL 2



ACCESS ROAD
DETAIL 3



LEGEND

— X — X —	FENCE	— E —	STORM SEWER	[Hatched Box]	EXTRA WORK SPACE	[Hatched Box]	TOPSOIL SEGREGATION AREA	— LOD —	LIMIT OF DISTURBANCE	[Blue Line]	BSTRF	BELTED SILT RETENTION FENCE (BSTRF)
— G — G —	EXISTING GAS PIPELINE	— W —	WATER LINE	[Dotted Box]	AREA OF NO DISTURBANCE	[Hatched Box]	PROPOSED TEMPORARY R.O.W.	— SSF —	SUPER SILT FENCE	[Orange Line]	111.03	COMPOST FILTER SOCK IDENTIFICATION
— OH —	OVERHEAD UTILITY LINES	— SAN —	SANITARY SEWER	[Green Box]	WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)	[Circle]	UTILITY POLE	— X —	ORANGE SAFETY FENCE	[Orange Line]	30-58%	ROADSIDE DITCH
— — —	ACCESS ROAD	— — —	EDGE OF GRAVEL	[Green Box]	WETLAND	[Circle]	UTILITY POLE	[Orange Line]	ROADSIDE DITCH	[Orange Line]	30-58%	SOIL TYPE
— — —	PROPOSED PERMANENT EASEMENT	— — —	PROPOSED PERMANENT EASEMENT	[Green Box]	WETLAND	[Circle]	UTILITY POLE	[Orange Line]	ROADSIDE DITCH	[Orange Line]	30-58%	TYPICAL BIC SLOPE CATEGORY
— — —	PROPOSED GAS PIPELINE (NO GROUND SURVEY)	— — —	PROPOSED GAS PIPELINE (NO GROUND SURVEY)	[Green Box]	WETLAND	[Circle]	UTILITY POLE	[Orange Line]	ROADSIDE DITCH	[Orange Line]	30-58%	SLOPE INCLINATION

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

NOTES

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- IMAGERY TAKEN FROM GOOGLE EARTH.
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- 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 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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J:\2665 -GAI\WORK ORDER 02 - SOUTHEAST PIPELINE (SECTION 1)\1 - REROUTE 1A\ACCESS ROAD SHEETS\MBE_CHK1_SPREAD_2_CAS_AR-108.DWG

NO.	DATE	CHKD.	APPROV.	DESCRIPTION

AP-1 PIPELINE ACCESS ROADS
04-002-A006 AR 4, 04-002-A006 AR 4.1

RANDOLPH COUNTY, WEST 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:	GOS
CHECKED:	DLH
APPROVED:	NET

gai consultants

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

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	AR-108	
8	OF	31

6/5/2017 3:11 PM

ACCESS ROAD
DETAIL 1



ACCESS ROAD
DETAIL 2



LEGEND

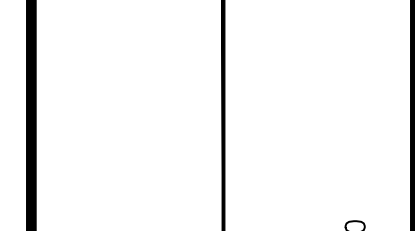
<p>— X — X — FENCE</p> <p>— G — G — EXISTING GAS PIPELINE</p> <p>— OH — OVERHEAD UTILITY LINES</p> <p>— — — ACCESS ROAD</p> <p>— — — PROPOSED GAS PIPELINE</p>	<p>— — — STORM SEWER</p> <p>— E — UNDERGROUND ELECTRIC</p> <p>— W — WATER LINE</p> <p>— — — SANITARY SEWER</p> <p>— — — EDGE OF GRAVEL</p> <p>— — — 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 (COLOR SHOWN TO PROVIDE CLARITY ONLY)</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>TRENCH BREAKER/PLUG BLEEDER</p> <p>DRAIN AND OUTLET</p> <p>STREAM CROSSING</p> <p>USFWS STREAM CROSSING WITH ENHANCED CONTROLS</p> <p>SEEP</p> <p>CONSTRUCTION ENTRANCE WITH DITCH</p> <p>CULVERT AS NEEDED</p> <p>CULVERT WATERBAR</p>	<p>LOD</p> <p>BSRF</p> <p>SSF</p> <p>111.03</p> <p>ORANGE SAFETY FENCE</p> <p>ROADSIDE DITCH</p> <p>SOIL TYPE</p> <p>A1 (E) 30-58%</p>	<p>LIMIT OF DISTURBANCE</p> <p>BELTED SILT RETENTION FENCE (BSRF)</p> <p>SUPER SILT FENCE</p> <p>COMPOST FILTER SOCK</p> <p>SEDIMENT BARRIER IDENTIFICATION</p> <p>ORANGE SAFETY FENCE</p> <p>ROADSIDE DITCH</p> <p>SOIL TYPE</p> <p>TYPICAL BIC SLOPE CATEGORY SLOPE INCLINATION</p>
--	---	--	--	---	--	---

NOTES

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J:\2665 -GAI\WORK ORDER 02 - SOUTHEAST PIPELINE (SECTION 1)\1 - REROUTE 1A\ACCESS ROAD SHEETS\MBE_CHK1_SPREAD_2_CAS_AR-109.DWG

NO.	DATE	DRWN.	CHKD.	APPROV.	DESCRIPTION



AP-1 PIPELINE ACCESS ROADS
04-002-A006 AR 6

RANDOLPH COUNTY, WEST VIRGINIA

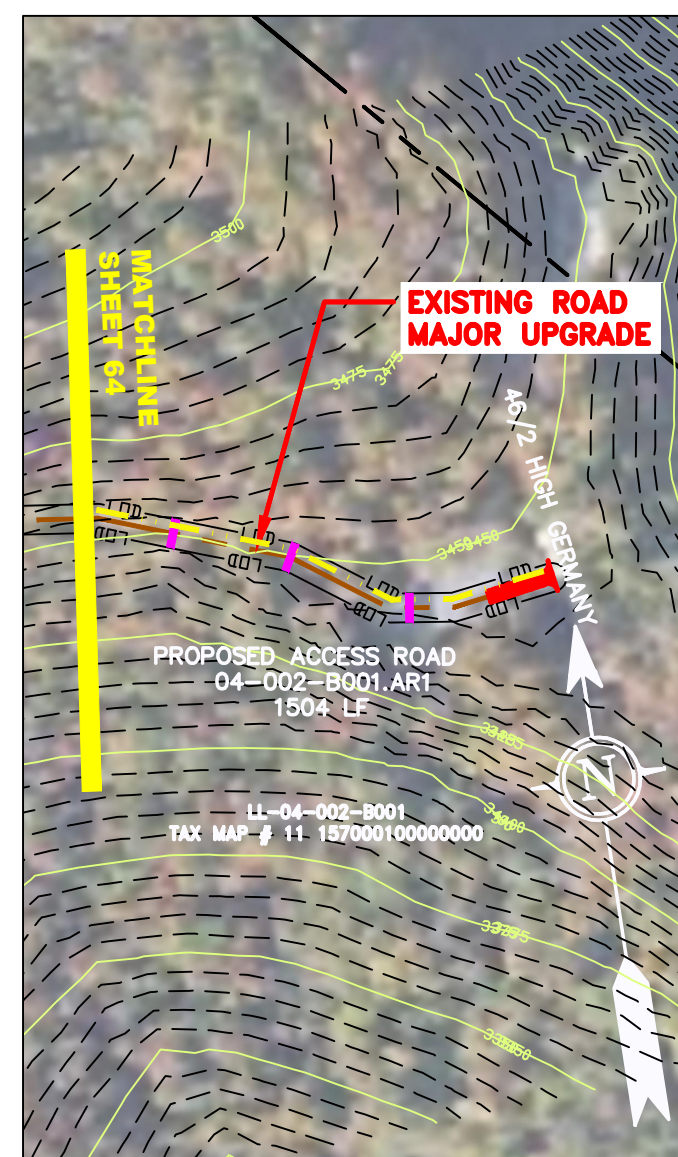
ATLANTIC COAST PIPELINE, LLC
C/O DOMINION TRANSMISSION, INC.
925 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330

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

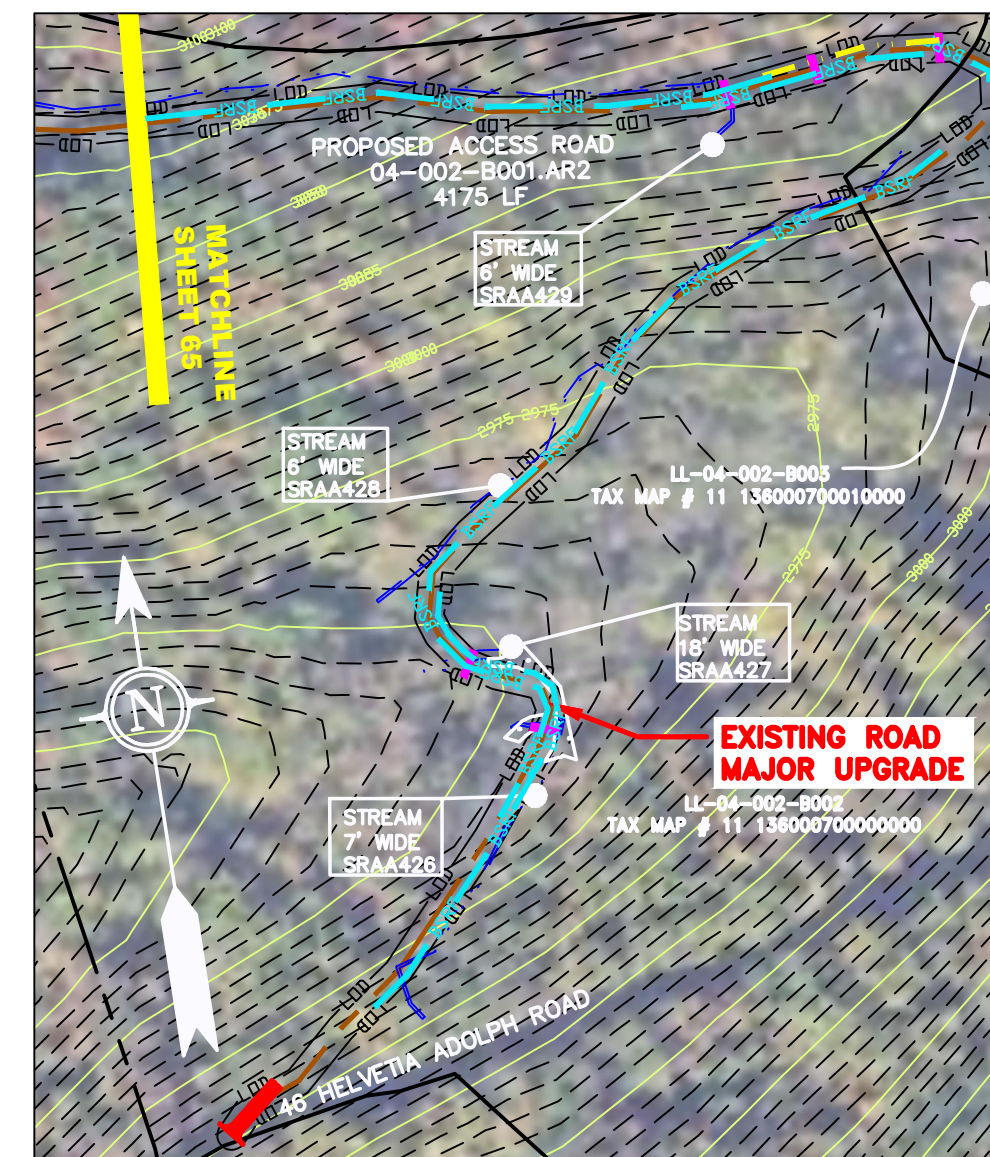


PROJECT NO./DASH NO.	140468	
TASK NO.	SUB TASK NO.	
005	00	
GROUP ID	DRAWING NO.	
D	AR-109	
9	OF	31

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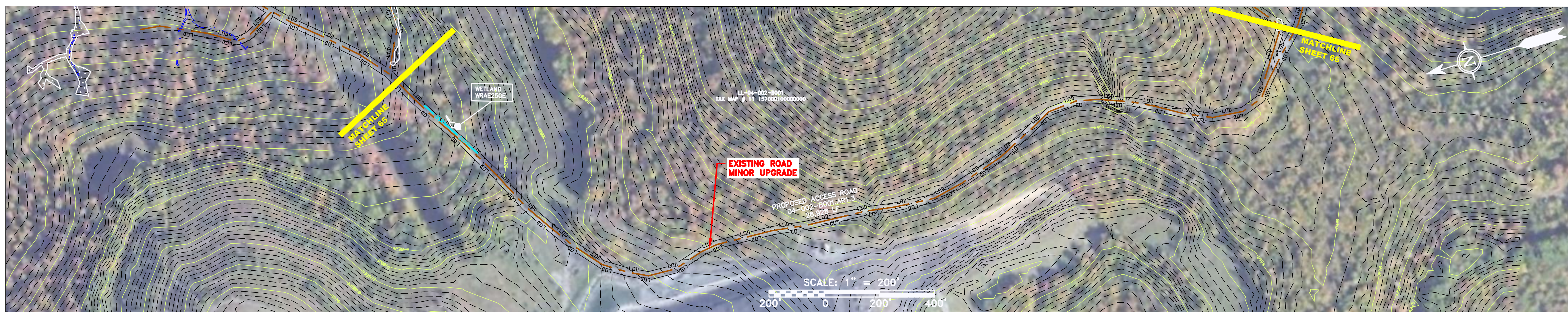
ACCESS ROAD
DETAIL 1



ACCESS ROAD
DETAIL 2



ACCESS ROAD
DETAIL 3



ACCESS ROAD
DETAIL 4

LEGEND

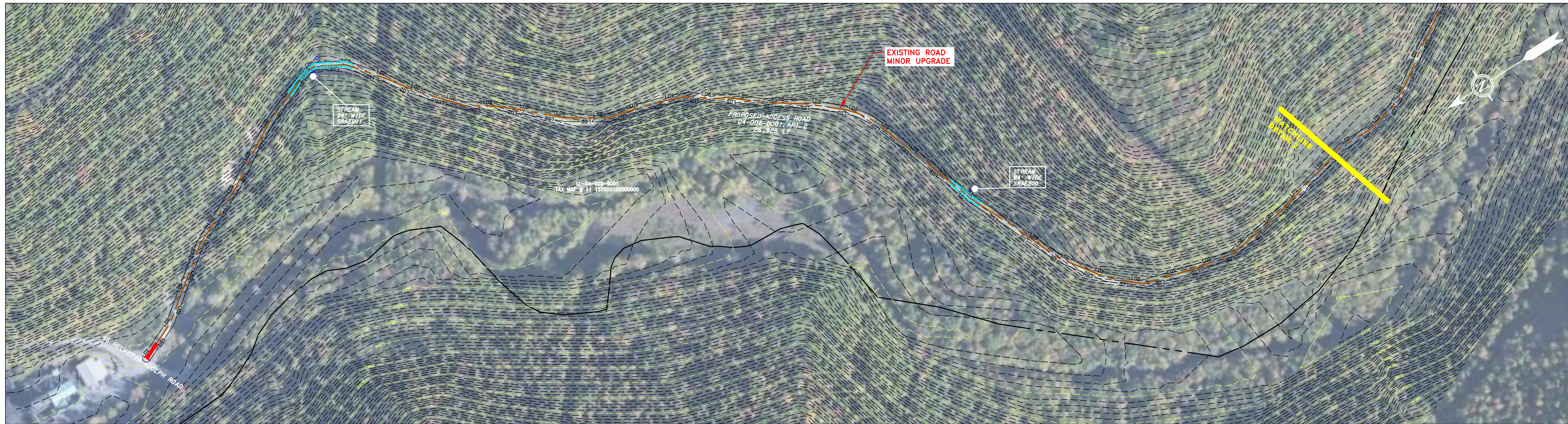
— X — X —	FENCE	— E —	UNDERGROUND ELECTRIC	[Hatched Box]	EXTRA WORK SPACE	[Hatched Box]	TOPSOIL SEGREGATION AREA	— LOD —	LIMIT OF DISTURBANCE	[Blue Line]	BSRF	BELTED SILT RETENTION FENCE (BSRF)	
— G — G —	EXISTING GAS PIPELINE	— W —	WATER LINE	[Dotted Box]	AREA OF NO DISTURBANCE	[Hatched Box]	PROPOSED TEMPORARY R.O.W.	— SSF —	SUPER SILT FENCE	[Orange Line]	111.03	COMPOST FILTER SOCK	
— OH —	OVERHEAD UTILITY LINES	— SAN —	SANITARY SEWER	[Green Box]	WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)	[Circle]	UTILITY POLE	[Orange Line]	ORANGE SAFETY FENCE	[Yellow Line]	ROADSIDE DITCH	[Blue Line]	SOIL TYPE
—	ACCESS ROAD	—	PROPOSED PERMANENT EASEMENT	[Green Box]	WETLAND	[Circle]	UTILITY POLE	[Orange Line]	SEDIMENT BARRIER IDENTIFICATION	[Blue Line]	SOIL TYPE	[Blue Line]	TYPICAL BIC SLOPE CATEGORY
—	PROPOSED GAS PIPELINE	—	PROPOSED GAS PIPELINE (NO GROUND SURVEY)	[Green Box]	WETLAND	[Circle]	UTILITY POLE	[Orange Line]	SEDIMENT BARRIER IDENTIFICATION	[Blue Line]	SOIL TYPE	[Blue Line]	SLOPE INCLINATION

NOTES

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J:\2665 -GAI\WORK ORDER 02 - SOUTHEAST PIPELINE (SECTION 1)\1 - REROUTE 1A\ACCESS ROAD SHEETS\MBE_CHK1_SPREAD_2_CAS_AR-110.DWG

AP-1 PIPELINE ACCESS ROADS 04-002-B001.AR1, 04-002-B001.AR2, 04-002-B001.AR1.2 & 04-002-B001.AR1.3 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
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-110
10	OF 31
REVISIONS NO. DATE DWG. CHKD. APPD. DESCRIPTION	



ACCESS ROAD
DETAIL 1



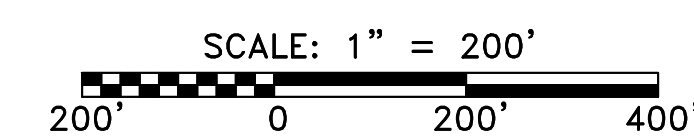
ACCESS ROAD
DETAIL 2

LEGEND

— X — X —	FENCE	— E —	STORM SEWER	— W —	WATER LINE	— G — G —	EXISTING GAS PIPELINE	— OH —	OVERHEAD UTILITY LINES	—	ACCESS ROAD	—	PROPOSED PERMANENT EASEMENT	—	PROPOSED GAS PIPELINE (NO GROUND SURVEY)
—	PROPERTY LINE	—	UNDERGROUND ELECTRIC	—	SANITARY SEWER	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

[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

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



[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]	SUPER SILT FENCE
[Symbol]	TRENCH BREAKER/PLUG BLEEDER DRAIN AND OUTLET	[Symbol]	COMPOST FILTER SOCK
[Symbol]	STREAM CROSSING	[Symbol]	SEDIMENT BARRIER IDENTIFICATION
[Symbol]	USFWS STREAM CROSSING WITH ENHANCED CONTROLS	[Symbol]	ORANGE SAFETY FENCE
[Symbol]	SEEP	[Symbol]	ROADSIDE DITCH
[Symbol]	CONSTRUCTION ENTRANCE WITH DITCH CULVERT AS NEEDED	[Symbol]	SOIL TYPE
[Symbol]	CULVERT/ WATERBAR	[Symbol]	TYPICAL BIC SLOPE CATEGORY SLOPE INCLINATION

- NOTES:**
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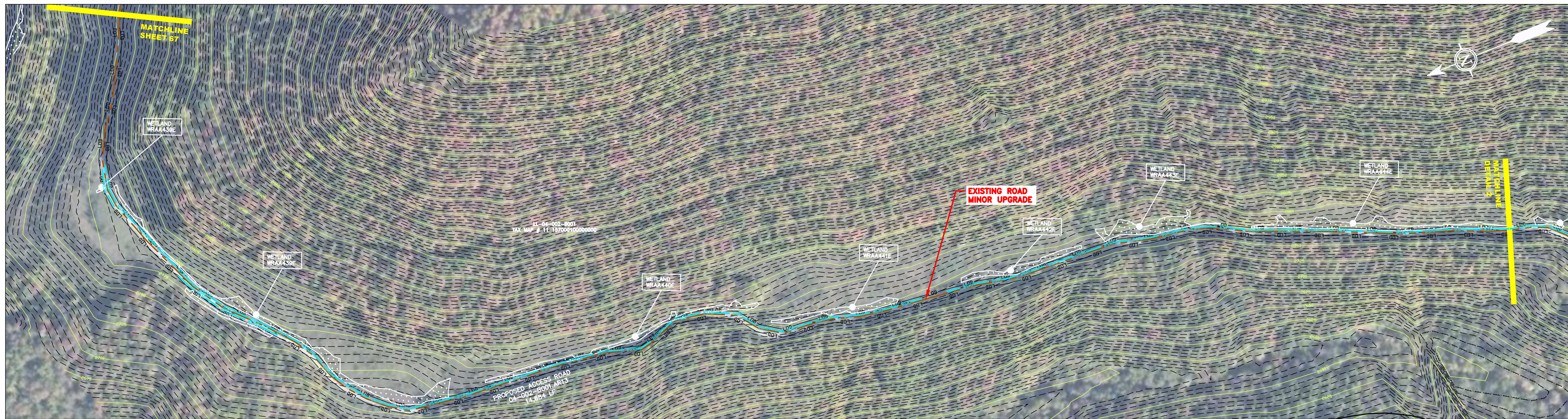
J:\2665 -GAI\WORK ORDER 02 - SOUTHEAST PIPELINE (SECTION 1)\1 - REROUTE 1A\ACCESS ROAD SHEETS\MBE_CHK1_SPREAD_2_CAS_AR-111.DWG

AP-1 PIPELINE ACCESS ROADS 04-002-B001-AR1.2 RANDOLPH COUNTY, WEST VIRGINIA 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
SOUTHPOINT OFFICE 6000 TOWN CENTER BLVD. CANONSBURG, PA 15317 724-573-3545	
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PROJECT NO./DASH NO.	140468
TASK NO.	005
SUB TASK NO.	00
GROUP ID	D
DRAWING NO.	AR-111
11	OF 31

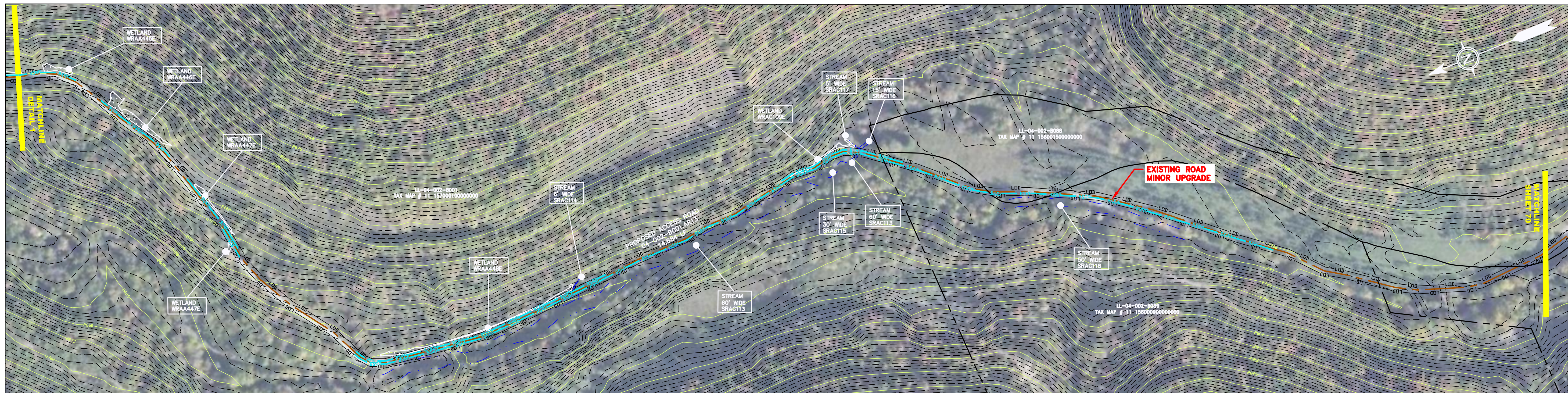
REVISIONS

NO.	DATE	BY	CHKD.	APPROV.	DESCRIPTION

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ACCESS ROAD
DETAIL 1



ACCESS ROAD
DETAIL 2

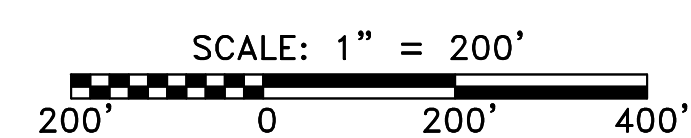
LEGEND

— X — X —	PROPERTY LINE	— E —	STORM SEWER	[Hatched Box]	EXTRA WORK SPACE	[Hatched Box]	TOPSOIL SEGREGATION AREA
— G — G —	FENCE	— W —	UNDERGROUND ELECTRIC	[Dotted Box]	AREA OF NO DISTURBANCE	[Hatched Box]	PROPOSED TEMPORARY R.O.W.
— OH —	STREAM	— SAN —	WATER LINE	[Green Box]	WETLAND	[Circle]	UTILITY POLE
—	EXISTING GAS PIPELINE	—	SANITARY SEWER	[Green Box]	WETLAND	[Circle]	UTILITY POLE
—	OVERHEAD UTILITY LINES	—	EDGE OF GRAVEL	[Green Box]	WETLAND	[Circle]	UTILITY POLE
—	ACCESS ROAD	—	PROPOSED PERMANENT EASEMENT	[Green Box]	WETLAND	[Circle]	UTILITY POLE
—	PROPOSED GAS PIPELINE	—	PROPOSED GAS PIPELINE (NO GROUND SURVEY)	[Green Box]	WETLAND	[Circle]	UTILITY POLE

[Triangle]	PERMANENT WATERBAR/SLOPE BREAKER	[Line]	LIMIT OF DISTURBANCE
[Triangle]	TEMPORARY WATERBAR/SLOPE BREAKER	[Line]	BELTED SILT RETENTION FENCE (BSRF)
[Triangle]	TRENCH BREAKER/PLUG	[Line]	SSF
[Triangle]	TRENCH BREAKER/PLUG BLEEDER DRAIN AND OUTLET	[Line]	111.03
[Triangle]	STREAM CROSSING	[Line]	ORANGE SAFETY FENCE
[Triangle]	USFWS STREAM CROSSING WITH ENHANCED CONTROLS	[Line]	ROADSIDE DITCH
[Triangle]	SEEP	[Line]	SOIL TYPE
[Triangle]	CONSTRUCTION ENTRANCE WITH DITCH	[Line]	A1 (E)
[Triangle]	CULVERT WATERBAR	[Line]	30-58%

NOTES:

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- *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.



J:\2665 -GAI\WORK ORDER 02 - SOUTHEAST PIPELINE (SECTION 1)\1 - REROUTE 1A\ACCESS ROAD SHEETS\MBE_CHK1_SPREAD_2_CAS_AR-112.DWG

AP-1 PIPELINE ACCESS ROADS 04-002-B001-AR13		RANDOLPH COUNTY, WEST VIRGINIA	
ATLANTIC COAST PIPELINE, LLC C/O DOMINION TRANSMISSION, INC. 925 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330		ERM	
PROJECT NO./DASH NO. 140468		TASK NO. SUB TASK NO. 005 00	
GROUP ID DRAWING NO. D AR-112		12 OF 31	
DATE: 6/5/17		DRAWN: JMS	
CHECKED: DLH		APPROVED: NET	
SCALE: AS SHOWN		DATE: 6/5/17	
DRAWN: JMS		CHECKED: DLH	
APPROVED: NET		DATE: 6/5/17	
g gai consultants		SOUTHPOINTE OFFICE 6000 TOWN CENTER BLVD. PITTSBURGH, PA 15205 724-788-3545	
mbe monahoh basin engineers		300 BUSINESS CENTER DRIVE PITTSBURGH, PA 15205 412-788-2433	
REVISIONS		NO. DATE DWG. CHKD. APPD. DESCRIPTION	

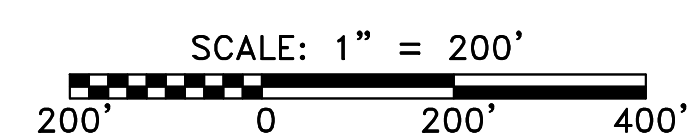
J:\2665 -GAI\WORK ORDER 02 - SOUTHEAST PIPELINE (SECTION 1)\1 - REROUTE 1A\ACCESS ROAD SHEETS\MBE_CHK1_SPREAD_2_CAS_AR-113.DWG



ACCESS ROAD
DETAIL 1

LEGEND	
---	PROPERTY LINE
X-X	FENCE
---	STREAM
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
---	SANITARY SEWER
---	EDGE OF GRAVEL
---	PROPOSED PERMANENT EASEMENT
---	WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)
---	EXTRA WORK SPACE
---	AREA OF NO DISTURBANCE
---	TOPSOIL SEGREGATION AREA
---	PROPOSED TEMPORARY R.O.W.
---	UTILITY POLE

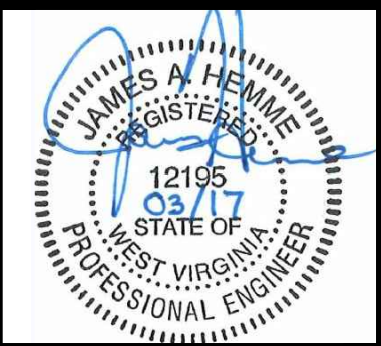
NOTE: THE PE SEAL AND SIGNATURE APPLIES ONLY TO THE E&S CONTROL DESIGN COMPLETED BY ERM (SEE NOTE 12).



▼	PERMANENT WATERBAR/SLOPE BREAKER	LOD	LIMIT OF DISTURBANCE
▽	TEMPORARY WATERBAR/SLOPE BREAKER	BSRF	BELTED SILT RETENTION FENCE (BSRF)
⊠	TRENCH BREAKER/PLUG	SSF	SUPER SILT FENCE
⊞	TRENCH BREAKER/PLUG BLEEDER DRAIN AND OUTLET	111.03	COMPOST FILTER SOCK
◇	STREAM CROSSING	111.03	SEDIMENT BARRIER IDENTIFICATION
◇	USFWS STREAM CROSSING WITH ENHANCED CONTROLS	X	ORANGE SAFETY FENCE
◇	SEEP	---	ROADSIDE DITCH
◇	CONSTRUCTION ENTRANCE WITH DITCH	---	SOIL TYPE
◇	CULVERT WATERBAR	A1 (E)	TYPICAL BIC SLOPE CATEGORY
		30-58%	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 SLOPES BAND.
 - ACCESS ROADS HAVE BEEN GROUPED INTO FOUR CATEGORIES - 1) EXISTING ROADS NO IMPROVEMENTS, 2) EXISTING ROADS MINOR IMPROVEMENTS, 3) EXISTING ROADS MAJOR IMPROVEMENTS AND 4) NEW ROADS. APPROPRIATE EROSION AND SEDIMENT CONTROLS WILL BE PROVIDED FOR ROADS IN CATEGORIES 2, 3 AND 4. ROADS IN CATEGORIES 1 AND 2 HAVE ADEQUATE EXISTING DRAINAGE; DRAINAGE FEATURES WILL BE PROVIDED FOR ROADS IN CATEGORIES 3 AND 4.
 - *ERM IS SOLELY RESPONSIBLE FOR THE NATURE AND LOCATION OF THE DEPICTED BIMPS 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.

NO.	DATE	BY	CHKD.	APPROV.	DESCRIPTION



AP-1 PIPELINE ACCESS ROADS
04-002-B001-AR6.1, 04-002-B001-AR7.1

RANDOLPH COUNTY, WEST 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

SOUTHPOINTE OFFICE
6000 TOWN CENTER BLVD.
CANONSBURG, PA 15317
724-673-3545

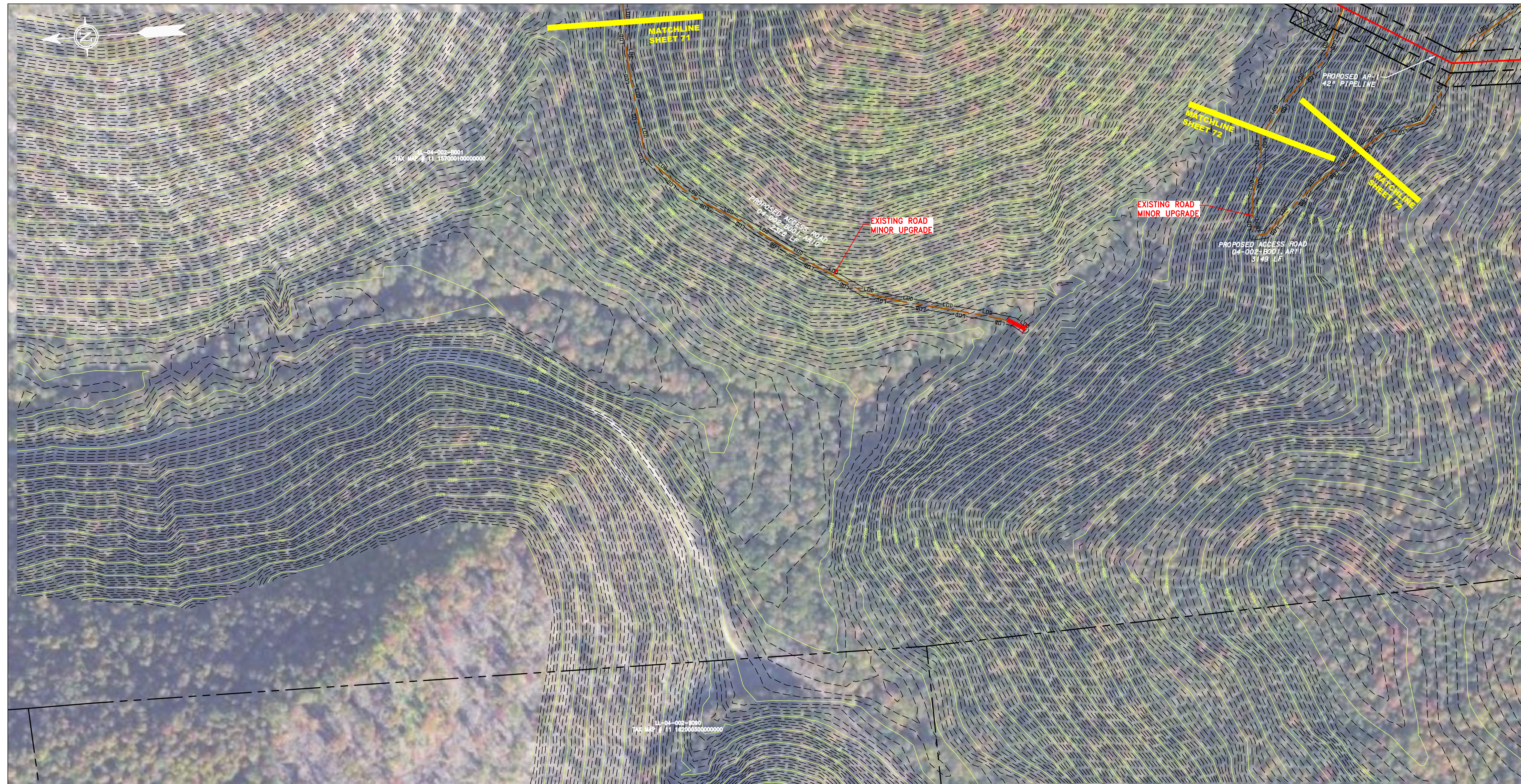
mbe
monaloh basin engineers

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	AR-113	
13	OF	31

6/5/2017 3:37 PM

J:\2665 -GAI\WORK ORDER 02 - SOUTHEAST PIPELINE (SECTION 1)\1 - REROUTE 1A\ACCESS ROAD SHEETS\MBE_CHK1_SPREAD_2_CAS_AR-114.DWG



LEGEND

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

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

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

SCALE: 1" = 200'

	PERMANENT WATERBAR/SLOPE BREAKER		LIMIT OF DISTURBANCE
	TEMPORARY WATERBAR/SLOPE BREAKER		BELTED SILT RETENTION FENCE (BSRF)
	TRENCH BREAKER/PLUG		SUPER SILT FENCE
	TRENCH BREAKER/PLUG BLEEDER DRAIN AND OUTLET		COMPOST FILTER SOCK
	STREAM CROSSING		SEDIMENT BARRIER IDENTIFICATION
	USFWS STREAM CROSSING WITH ENHANCED CONTROLS		ORANGE SAFETY FENCE
	SEEP		ROADSIDE DITCH
	CONSTRUCTION ENTRANCE WITH DITCH		SOIL TYPE
	CULVERT WATERBAR		TYPICAL BIC SLOPE CATEGORY

- 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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 - 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 SLOPES BAND.
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NO.	DATE	BY	CHKD.	APPROV.	DESCRIPTION



ERM

AP-1 PIPELINE ACCESS ROADS
04-002-B001-AR10, 04-002-B001-AR11

RANDOLPH COUNTY, WEST VIRGINIA

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

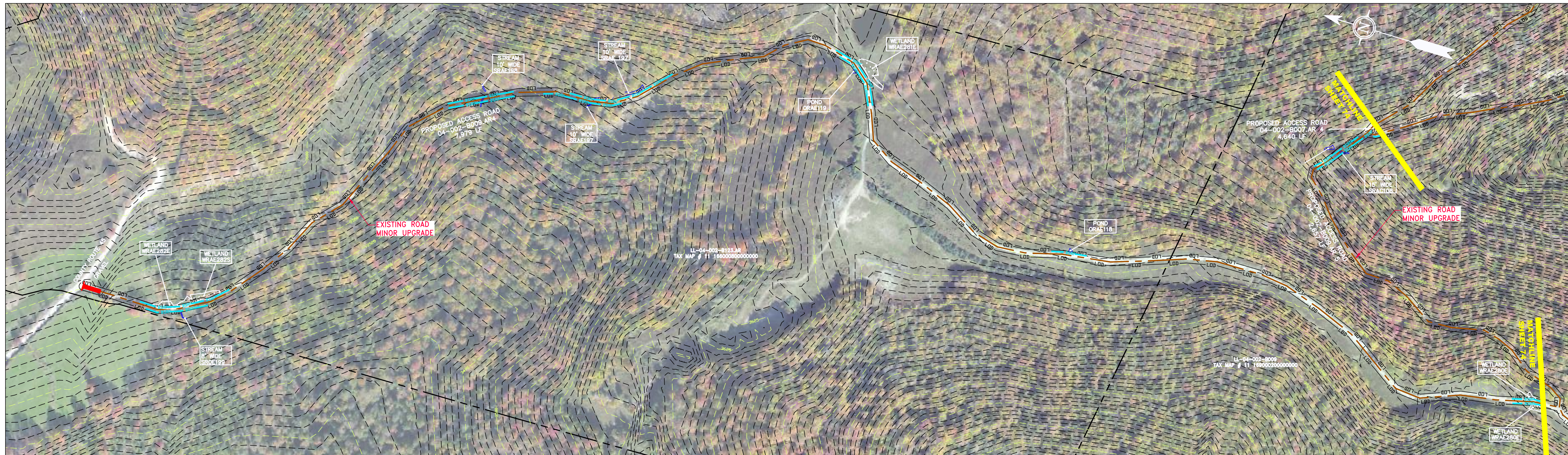
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APPROVED:	NET



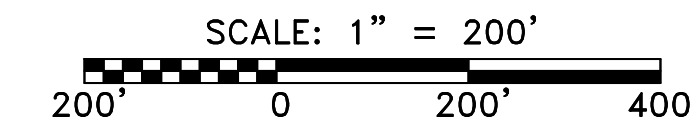
PROJECT NO./DASH NO.		140468	
TASK NO.	SUB TASK NO.	005	00
GROUP ID	DRAWING NO.	D	AR-114
14	OF	31	

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J:\2665 -GAI\WORK ORDER 02 - SOUTHEAST PIPELINE (SECTION 1)\1 - REROUTE 1A\ACCESS ROAD SHEETS\MBE_CHK1_SPREAD_2_CAS_AR-115.DWG



ACCESS ROAD
DETAIL 1



LEGEND	
	PROPERTY LINE
	STORM SEWER
	FENCE
	UNDERGROUND ELECTRIC
	WATER LINE
	EXISTING GAS PIPELINE
	SANITARY SEWER
	OVERHEAD UTILITY LINES
	EDGE OF GRAVEL
	ACCESS ROAD
	PROPOSED PERMANENT EASEMENT
	PROPOSED GAS PIPELINE (NO GROUND SURVEY)
	EXTRA WORK SPACE
	TOPSOIL SEGREGATION AREA
	AREA OF NO DISTURBANCE
	PROPOSED TEMPORARY R.O.W.
	WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)
	UTILITY POLE
	PERMANENT WATERBAR/SLOPE BREAKER
	TEMPORARY WATERBAR/SLOPE BREAKER
	TRENCH BREAKER/PLUG
	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
	LIMIT OF DISTURBANCE
	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

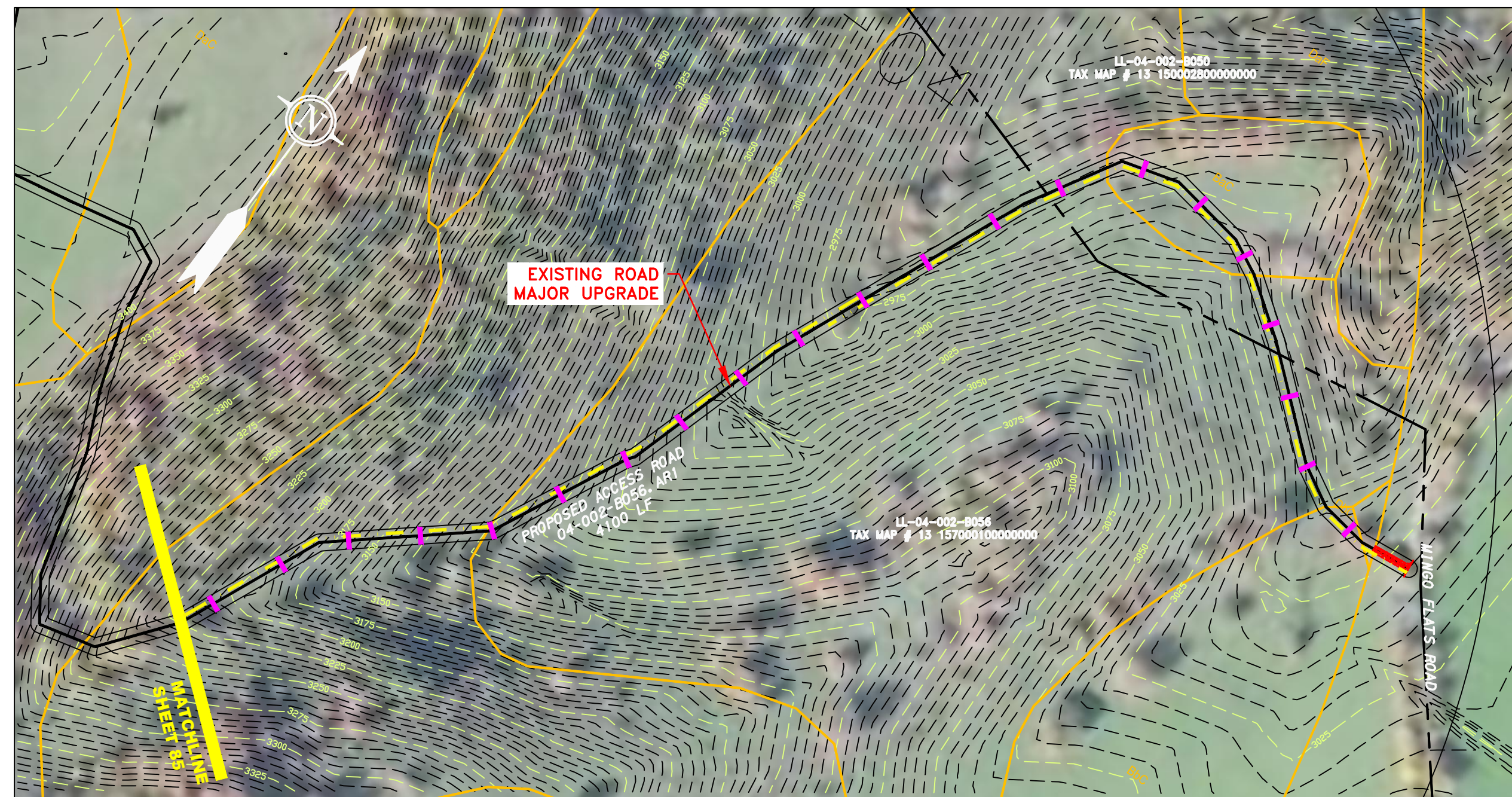
NOTE: THE PE SEAL AND SIGNATURE APPLIES ONLY TO THE E&S CONTROL DESIGN COMPLETED BY ERM (SEE NOTE 12).

- NOTES:**
- COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY - UTM WITH NAD83 DATUM, ZONE 17, US SURVEY FOOT, CENTRAL MERIDIAN 81° W.
 - CONTOURS AND TOPOGRAPHIC FEATURES WERE DERIVED FROM LIDAR DATA AND GPS SUB-METER GROUND SURVEY PERFORMED BY GAI CONSULTANTS, INC FROM 11-03-2014 THRU 11-07-2014.
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 - 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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 - ERM IS SOLELY RESPONSIBLE FOR THE NATURE AND LOCATION OF THE DEPICTED BIC SLOPES 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.

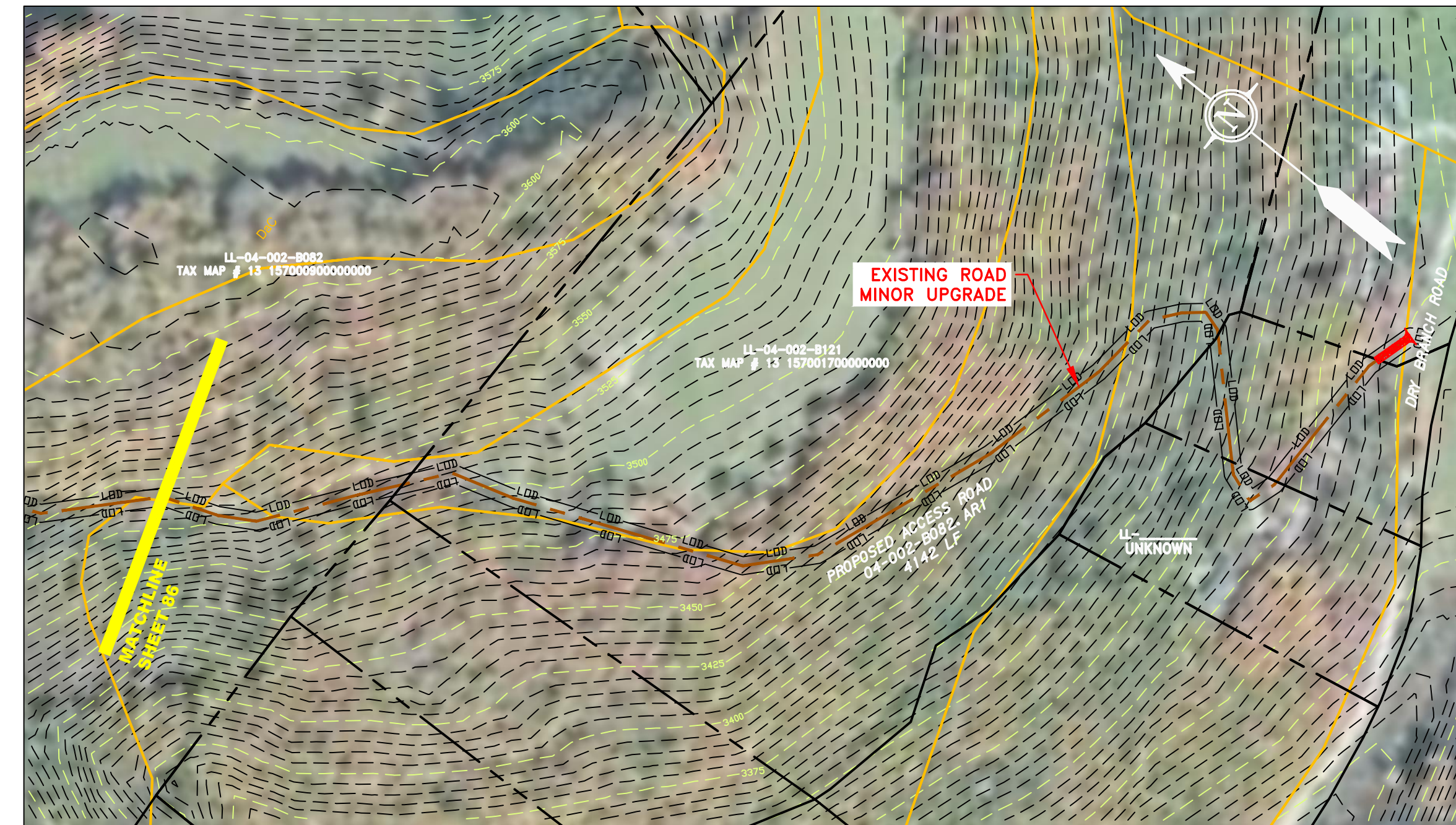
AP-1 PIPELINE ACCESS ROADS 04-002-8009.ARA, 04-002-8009.ARS 04-002-8007.ARA RANOLPH COUNTY, WEST VIRGINIA	
ATLANTIC COAST PIPELINE, LLC C/O DOMINION TRANSMISSION, INC. 925 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330	
SCALE:	AS SHOWN
DATE:	6/5/17
DRAWN:	JMS
CHECKED:	DLH
APPROVED:	NET
SOUTHPONTE OFFICE 6000 TOWN CENTER BLVD. CANONSBURG, PA 15317 724-573-3545	
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-115
15	OF 31

REVISIONS
 NO. DATE DWG. CHKD. APPD. DESCRIPTION
 6/5/2017 3:44 PM

J:\2665 -GAI\WORK ORDER 02 - SOUTHEAST PIPELINE (SECTION 1)\1 - REROUTE 1A\ACCESS ROAD SHEETS\MBE_CHK1_SPREAD_2_CAS_AR-121.DWG

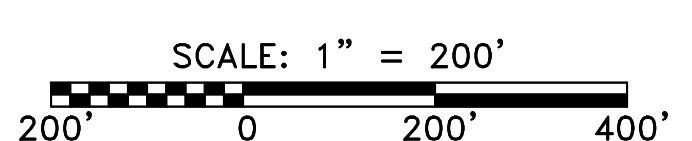


ACCESS ROAD
DETAIL 1



ACCESS ROAD
DETAIL 2

LEGEND	
— — — — —	PROPERTY LINE
X — X	FENCE
— — — — —	STREAM
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
— — — — —	WATER LINE
— — — — —	SANITARY SEWER
— — — — —	EDGE OF GRAVEL
— — — — —	PROPOSED PERMANENT EASEMENT
[Hatched Box]	EXTRA WORK SPACE
[Dotted Box]	WETLAND
[Hatched Box]	TOPSOIL SEGREGATION AREA
[Hatched Box]	PROPOSED TEMPORARY R.O.W.
[Hatched Box]	AREA OF NO DISTURBANCE
[Circle]	UTILITY POLE



[Symbol]	PERMANENT WATERBAR/SLOPE BREAKER	[Symbol]	LOD	[Symbol]	LIMIT OF DISTURBANCE
[Symbol]	TEMPORARY WATERBAR/SLOPE BREAKER	[Symbol]	BSRF	[Symbol]	BELTED SILT RETENTION FENCE (BSRF)
[Symbol]	TRENCH BREAKER/PLUG	[Symbol]	SSF	[Symbol]	SUPER SILT FENCE
[Symbol]	TRENCH BREAKER/PLUG BLEEDER	[Symbol]	111.03	[Symbol]	COMPOST FILTER SOCK
[Symbol]	DRAIN AND OUTLET	[Symbol]	[Symbol]	[Symbol]	SEDIMENT BARRIER IDENTIFICATION
[Symbol]	STREAM CROSSING	[Symbol]	X	[Symbol]	ORANGE SAFETY FENCE
[Symbol]	USFWS STREAM CROSSING WITH ENHANCED CONTROLS	[Symbol]	[Symbol]	[Symbol]	ROADSIDE DITCH
[Symbol]	SEEP	[Symbol]	CUB	[Symbol]	SOIL TYPE
[Symbol]	CONSTRUCTION ENTRANCE WITH DITCH	[Symbol]	A1 E1	[Symbol]	TYPICAL BIC SLOPE CATEGORY
[Symbol]	CULVERT/ WATERBAR	[Symbol]	30-58%	[Symbol]	SLOPE INCLINATION

- NOTES:**
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 - *ERM IS SOLELY RESPONSIBLE FOR THE NATURE AND LOCATION OF THE DEPICTED BICMS 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.

NO.	DATE	BY	CHKD.	APPROV.	DESCRIPTION



AP-1 PIPELINE ACCESS ROADS
04-002-B056.AR1, 04-002-B082.AR1

RANDOLPH COUNTY, WEST 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:	GOS
CHECKED:	DLH
APPROVED:	NET

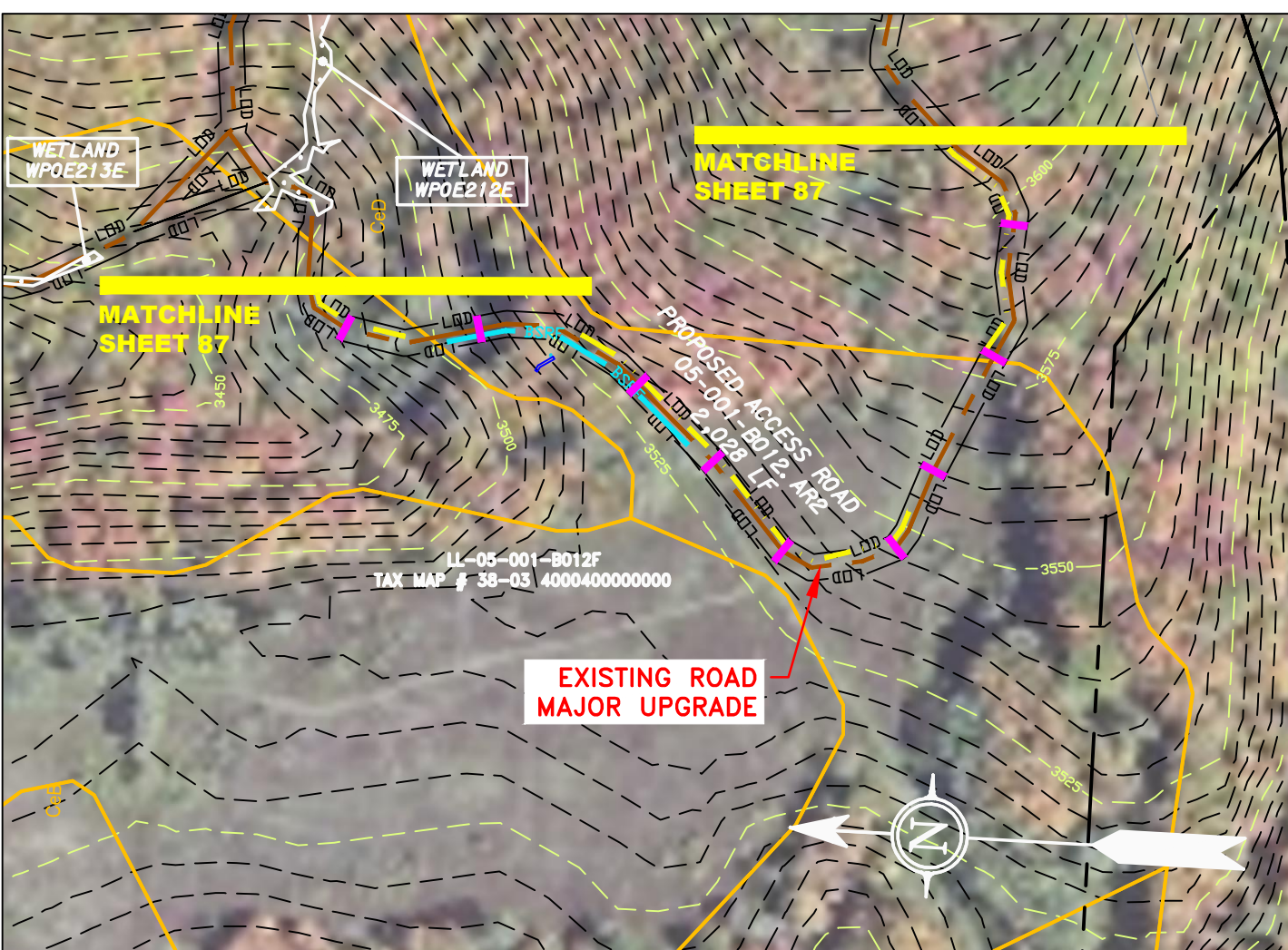


PROJECT NO./DASH NO.	140468	
TASK NO.	SUB TASK NO.	
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GROUP ID	DRAWING NO.	
D	AR-121	
21	OF	31

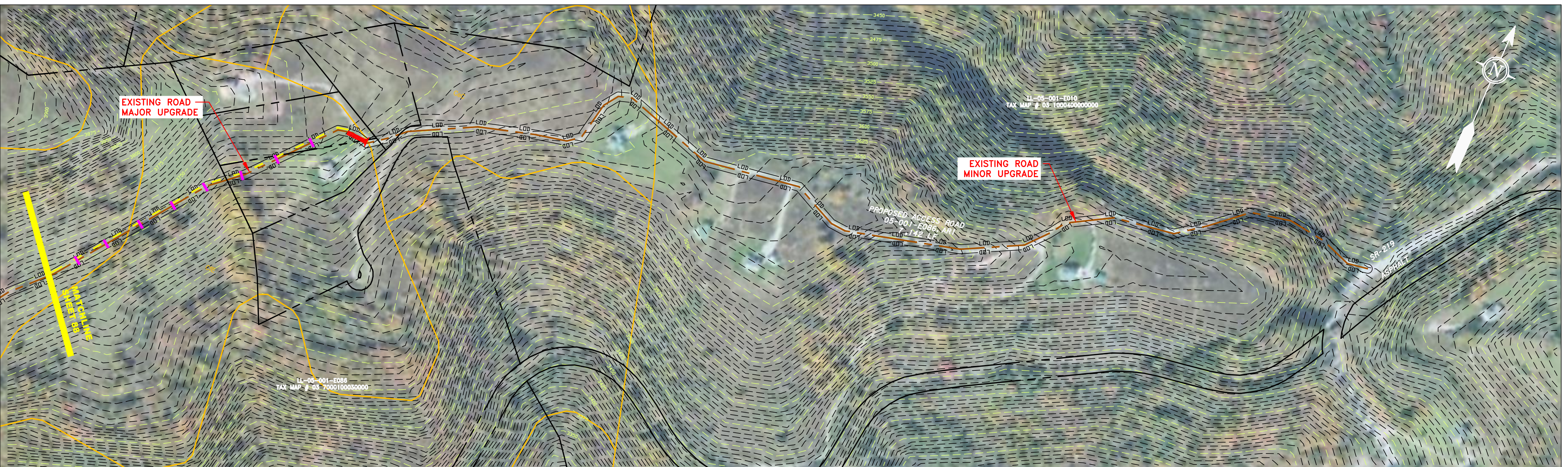
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J:\2665 -GAI\WORK ORDER 02 - SOUTHEAST PIPELINE (SECTION 1)\1 - REROUTE 1A\ACCESS ROAD SHEETS\MBE_CHK1_SPREAD_2_CAS_AR-122.DWG

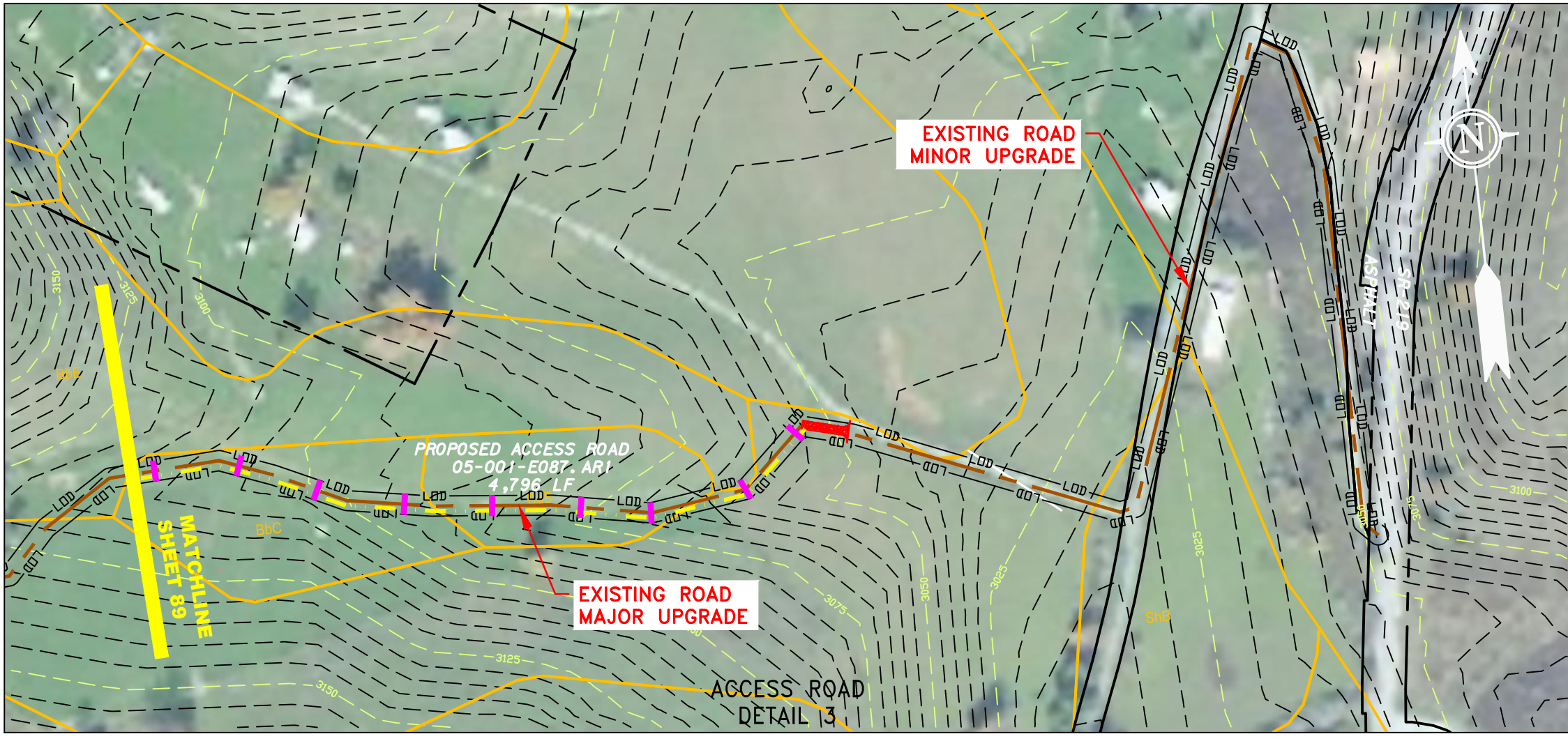
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ACCESS ROAD
DETAIL 1



ACCESS ROAD
DETAIL 2



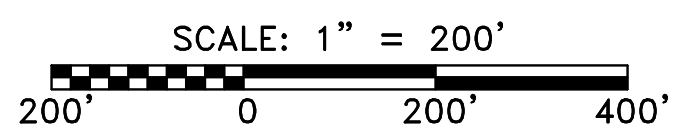
ACCESS ROAD
DETAIL 3

LEGEND

- | | | | | | | | | | |
|-----------|--|---------|-----------------------------|---------------|---------------------------|---------|---------------------------------|------------|------------------------------------|
| — X — X — | PROPERTY LINE | — E — | STORM SEWER | [Hatched Box] | EXTRA WORK SPACE | — LOD — | LIMIT OF DISTURBANCE | — BSRF — | BELTED SILT RETENTION FENCE (BSRF) |
| — G — G — | EXISTING GAS PIPELINE | — W — | UNDERGROUND ELECTRIC | [Dotted Box] | TOPSOIL SEGREGATION AREA | — SSF — | SUPER SILT FENCE | — 111.03 — | COMPOST FILTER SOCK |
| — OH — | OVERHEAD UTILITY LINES | — SAN — | WATER LINE | [White Box] | PROPOSED TEMPORARY R.O.W. | — X — | SEDIMENT BARRIER IDENTIFICATION | — CUB — | ORANGE SAFETY FENCE |
| — — — | ACCESS ROAD | — — — | SANITARY SEWER | [Green Box] | UTILITY POLE | — — — | ROADSIDE DITCH | — A1 E1 — | SOIL TYPE |
| — — — | PROPOSED PERMANENT EASEMENT | — — — | EDGE OF GRAVEL | [Green Box] | UTILITY POLE | — — — | TIYPICAL BIC SLOPE CATEGORY | — 30-58% — | SLOPE INCLINATION |
| — — — | PROPOSED GAS PIPELINE (NO GROUND SURVEY) | — — — | PROPOSED PERMANENT EASEMENT | [Green Box] | UTILITY POLE | — — — | | | |

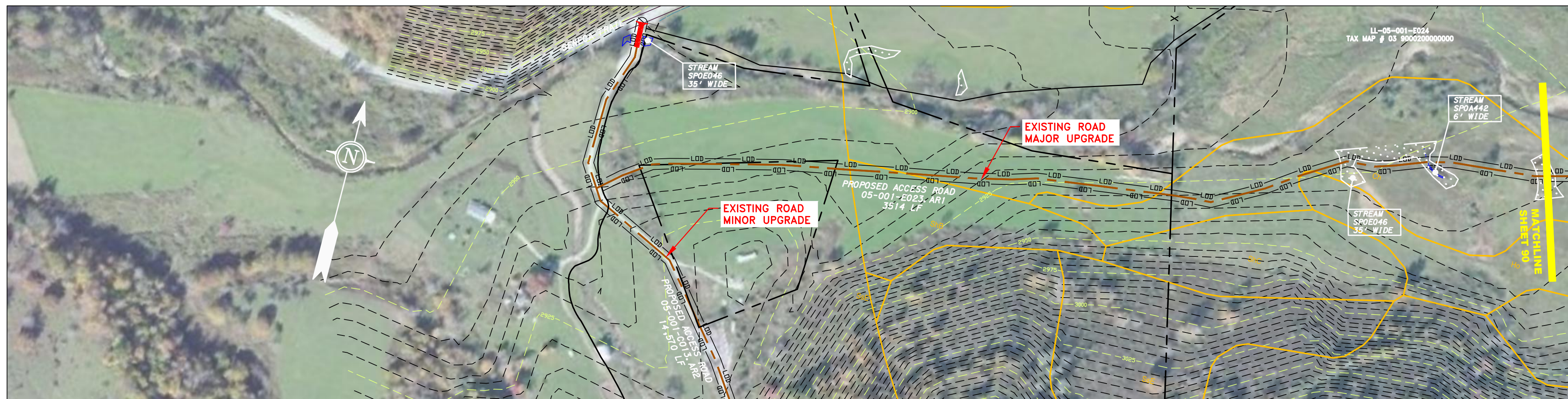
NOTES:

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- IMAGERY TAKEN FROM GOOGLE EARTH.
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- 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 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 BICMS 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.

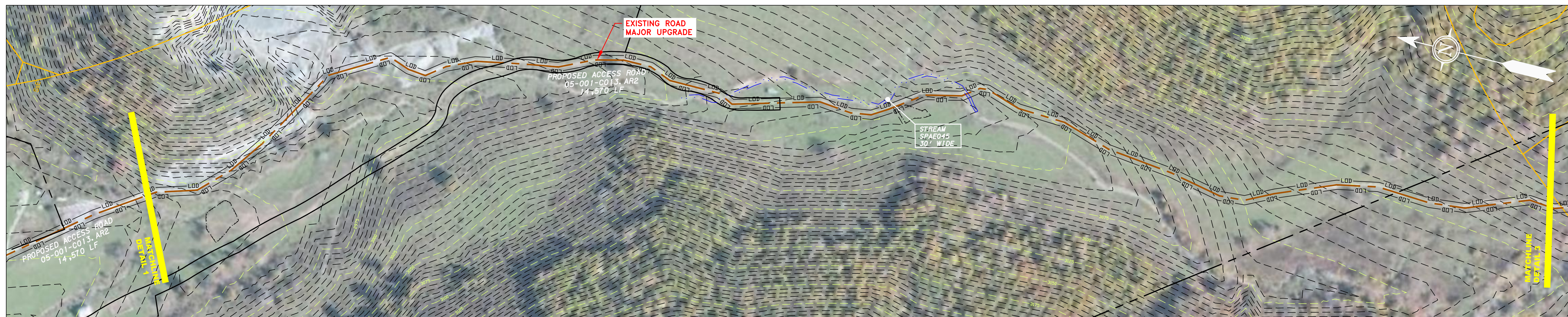


AP-1 PIPELINE ACCESS ROADS 05-001-B012.AR2, 05-001-E086.AR1, 05-001-E087.AR1 POCAHONTAS COUNTY, WEST VIRGINIA ATLANTIC COAST PIPELINE, LLC C/O DOMINION TRANSMISSION, INC. 925 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330	
SCALE:	AS SHOWN
DATE:	6/5/17
DRAWN:	GOS
CHECKED:	DLH
APPROVED:	NET
SOUTHPONTE OFFICE 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-122
22	OF 31

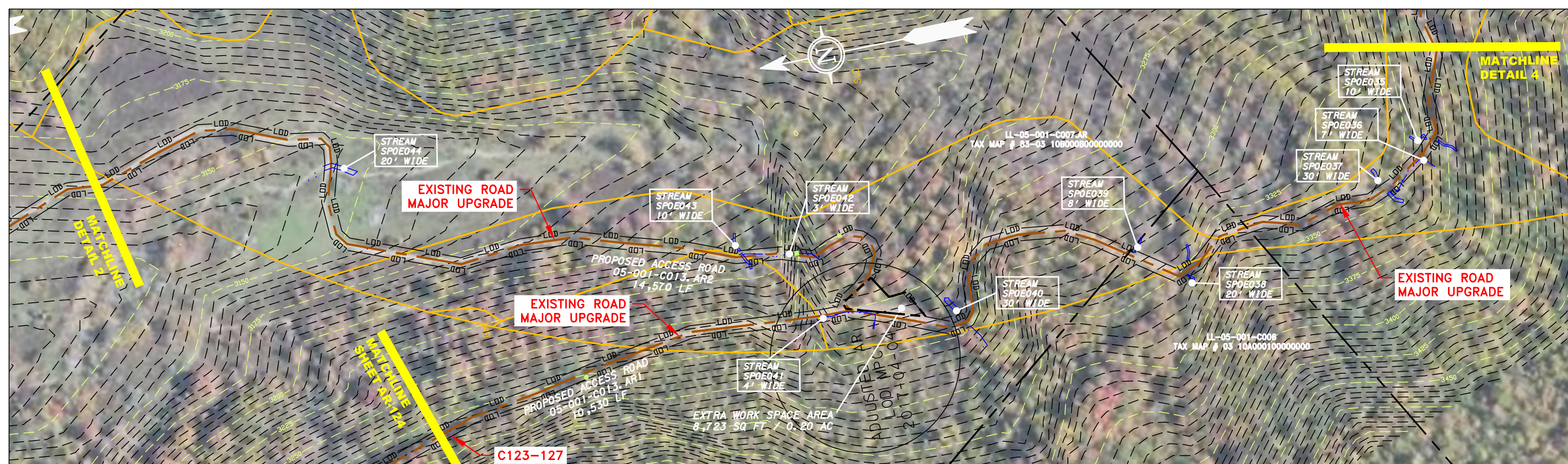
NO.	DATE	BY	CHKD.	APPD.	DESCRIPTION
					REVISIONS



ACCESS ROAD
DETAIL 1



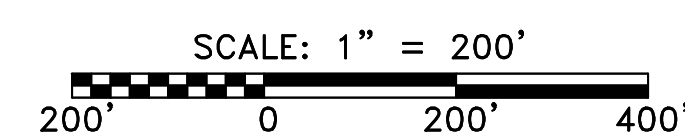
ACCESS ROAD
DETAIL 2



ACCESS ROAD
DETAIL 3



ACCESS ROAD
DETAIL 4

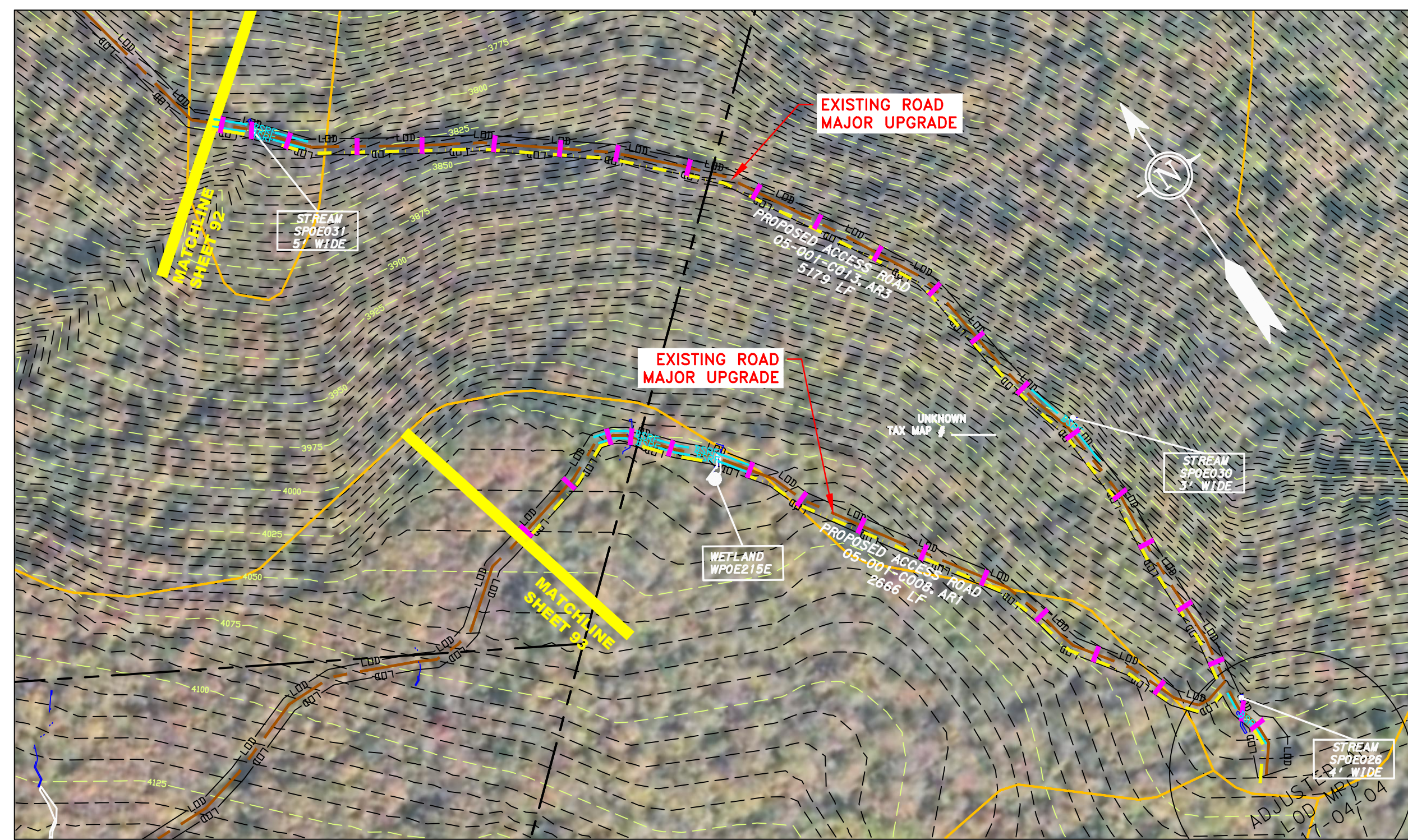
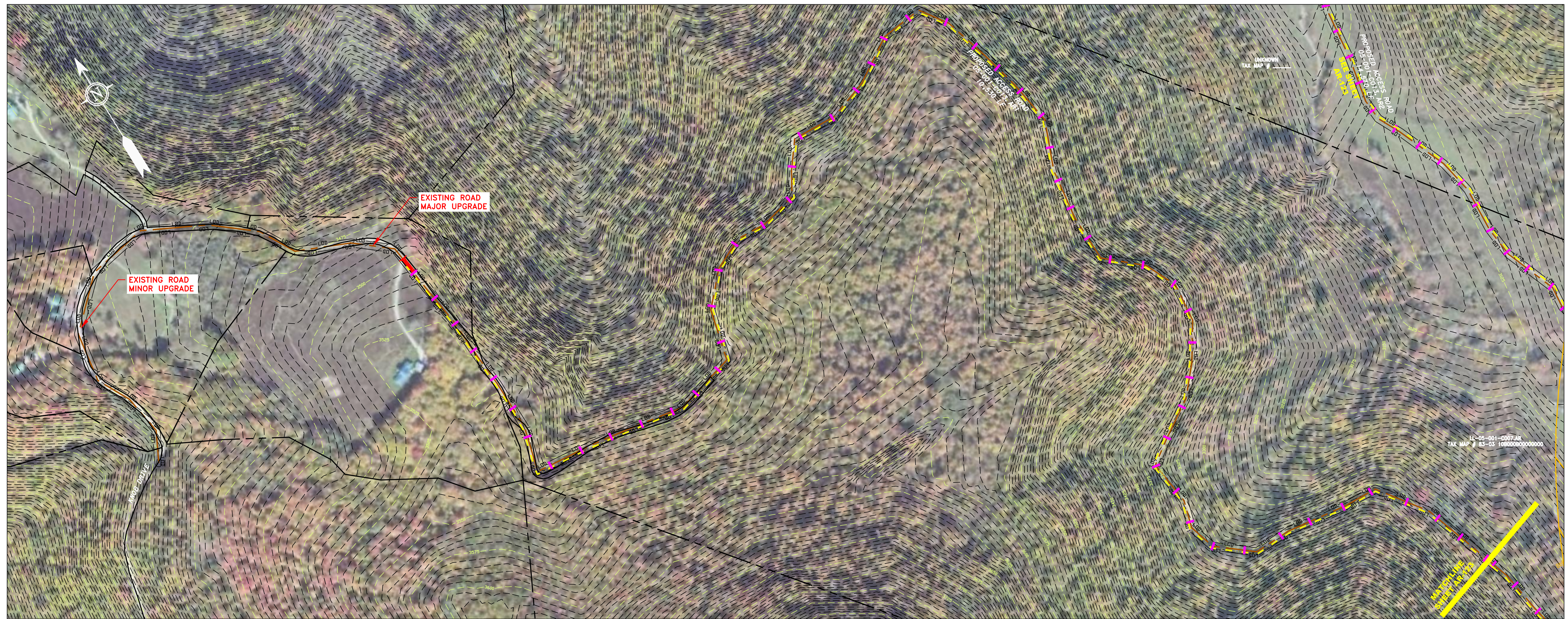


LEGEND	
— X — X —	PROPERTY LINE
— X — X —	FENCE
— G — G —	EXISTING GAS PIPELINE
— OH —	OVERHEAD UTILITY LINES
—	ACCESS ROAD
—	PROPOSED GAS PIPELINE
— E —	STORM SEWER
— W —	UNDERGROUND ELECTRIC
—	WATER LINE
—	SANITARY SEWER
—	EDGE OF GRAVEL
—	PROPOSED PERMANENT EASEMENT
—	PROPOSED GAS PIPELINE (NO GROUND SURVEY)
[Hatched Box]	EXTRA WORK SPACE
[Dotted Box]	AREA OF NO DISTURBANCE
[Green 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
[Square]	TEMPORARY WATERBAR/SLOPE BREAKER
[Square]	TRENCH BREAKER/PLUG
[Square]	TRENCH BREAKER/PLUG BLEEDER
[Square]	DRAIN AND OUTLET
[Diamond]	STREAM CROSSING
[Diamond]	USFWS STREAM CROSSING WITH ENHANCED CONTROLS
[Circle]	SEEP
[Circle]	CONSTRUCTION ENTRANCE WITH DITCH
[Circle]	CULVERT AS NEEDED
[Circle]	CULVERT WATERBAR
[Line]	LOD — LIMIT OF DISTURBANCE
[Line]	BSRF — BELTED SILT RETENTION FENCE (BSRF)
[Line]	SSF — SUPER SILT FENCE
[Line]	111.03 — COMPOST FILTER SOCK
[Line]	ORANGE SAFETY FENCE
[Line]	ROADSIDE DITCH
[Line]	SOIL TYPE
[Line]	A1 LE 30-58% — TYPICAL BIC SLOPE CATEGORY SLOPE INCLINATION

- NOTES:**
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J:\2665 -GAI\WORK ORDER 02 - SOUTHEAST PIPELINE (SECTION 1)\1 - REROUTE 1A\ACCESS ROAD SHEETS\MBE_CHK1_SPREAD_2_CAS_AR-123.DWG

AP-1 PIPELINE ACCESS ROADS 05-001-B023.AR1, 05-001-C013.AR2, 05-001-C013.AR.1	
POCAHONTAS COUNTY, WV 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
SOUTHPOINTE OFFICE 6000 TOWN CENTER BLVD. CANONSBURG, PA 15317 724-873-3545	
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	AR-123
23	OF 31
REVISIONS	



ACCESS ROAD
DETAIL 1

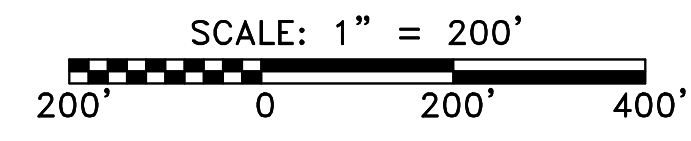
ACCESS ROAD
DETAIL 2

LEGEND

— X — X —	FENCE	— E —	STORM SEWER	[Hatched Box]	EXTRA WORK SPACE	[Hatched Box]	TOPSOIL SEGREGATION AREA
— G — G —	EXISTING GAS PIPELINE	— W —	UNDERGROUND ELECTRIC	[Dotted Box]	AREA OF NO DISTURBANCE	[Hatched Box]	PROPOSED TEMPORARY R.O.W.
— OH —	OVERHEAD UTILITY LINES	— SAN —	WATER LINE	[Green Box]	WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)	[Circle]	UTILITY POLE
—	ACCESS ROAD	—	SANITARY SEWER	[Red Box]	PROPOSED PERMANENT EASEMENT	[Triangle]	PERMANENT WATERBAR/SLOPE BREAKER
—	PROPOSED GAS PIPELINE	—	EDGE OF GRAVEL	[Blue Box]	NOTE: THE PE SEAL AND SIGNATURE APPLIES ONLY TO THE E&S CONTROL DESIGN COMPLETED BY ERM (SEE NOTE 12).	[Triangle]	TEMPORARY WATERBAR/SLOPE BREAKER
—	PROPOSED GAS PIPELINE (NO GROUND SURVEY)	—	PROPOSED PERMANENT EASEMENT	[Blue Box]		[Triangle]	TRENCH BREAKER/PLUG
						[Triangle]	TRENCH BREAKER/PLUG BLEEDER DRAIN AND OUTLET
						[Triangle]	STREAM CROSSING
						[Triangle]	USFWS STREAM CROSSING WITH ENHANCED CONTROLS
						[Triangle]	SEEP
						[Triangle]	CONSTRUCTION ENTRANCE WITH DITCH CULVERT AS NEEDED
						[Triangle]	CULVERT/ WATERBAR
						[Line]	LIMIT OF DISTURBANCE
						[Line]	BELTSILT RETENTION FENCE (BSRF)
						[Line]	SSSF
						[Line]	COMPOST FILTER SOCK
						[Line]	SEDIMENT BARRIER IDENTIFICATION
						[Line]	ORANGE SAFETY FENCE
						[Line]	ROADSIDE DITCH
						[Line]	SOIL TYPE
						[Line]	TYPICAL BIC SLOPE CATEGORY SLOPE INCLINATION

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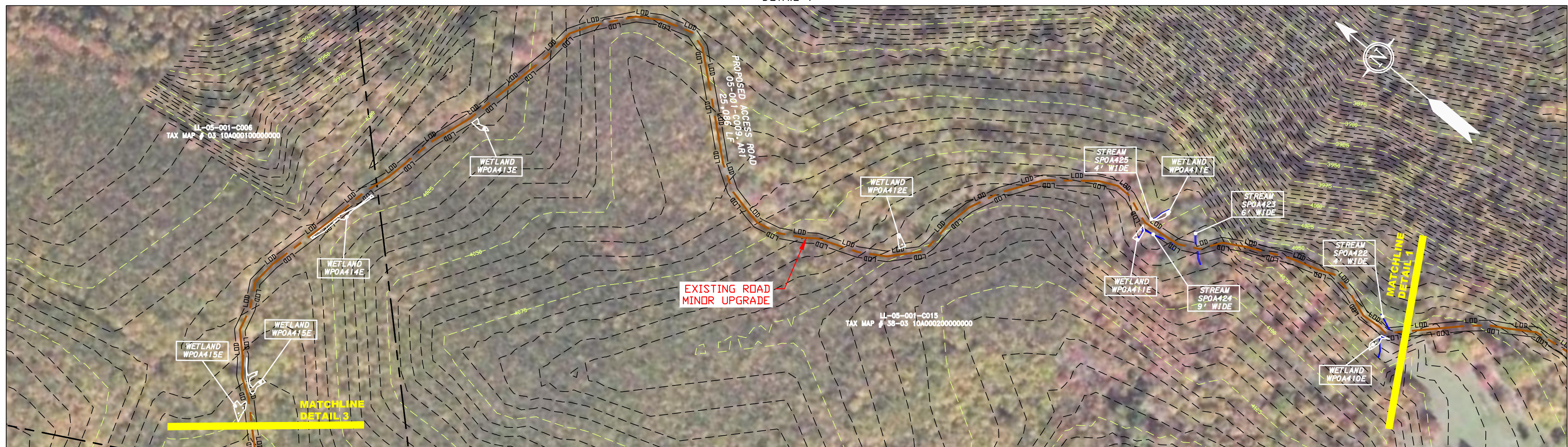


J:\2665 -GAI\WORK ORDER 02 - SOUTHEAST PIPELINE (SECTION 1)\1 - REROUTE 1A\ACCESS ROAD SHEETS\MBE_CHK1_SPREAD_2_CAS_AR-124.DWG

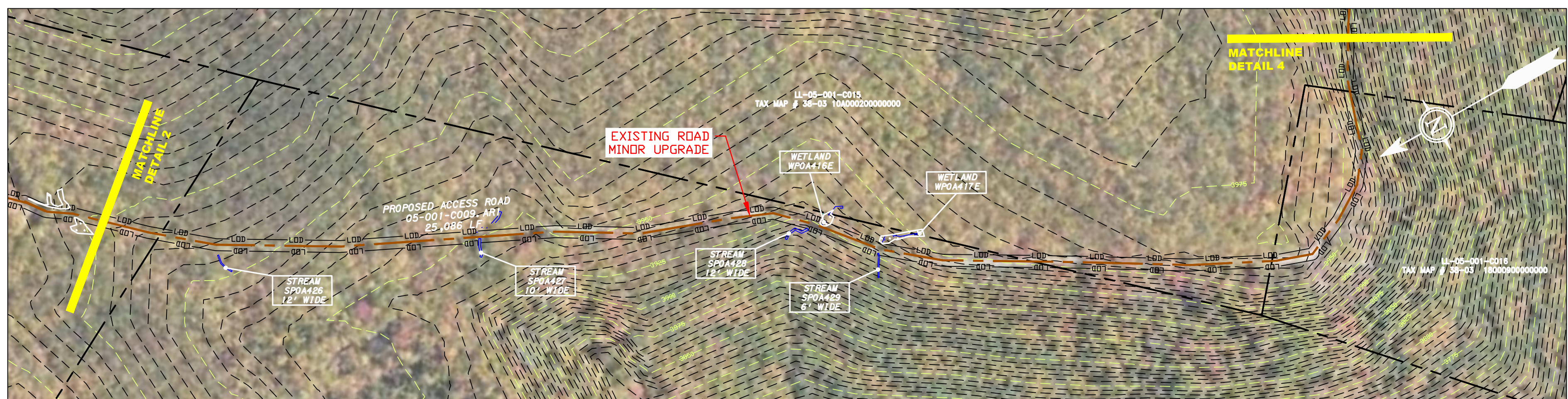
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TASK NO. SUB TASK NO. 005 00		
GROUP ID DRAWING NO. D AR-124		
24 OF 31		
POCAHONTAS COUNTY, WV ATLANTIC COAST PIPELINE, LLC C/O DOMINION TRANSMISSION, INC. 925 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330		
SCALE: AS SHOWN DATE: 6/5/17 DRAWN: GOS CHECKED: DLH APPROVED: NET		
SOUTHPOINT OFFICE 6000 TOWN CENTER BLVD. CANONSBURG, PA 15317 724-673-3545		
300 BUSINESS CENTER DRIVE PITTSBURGH, PA 15205 412-788-2433		



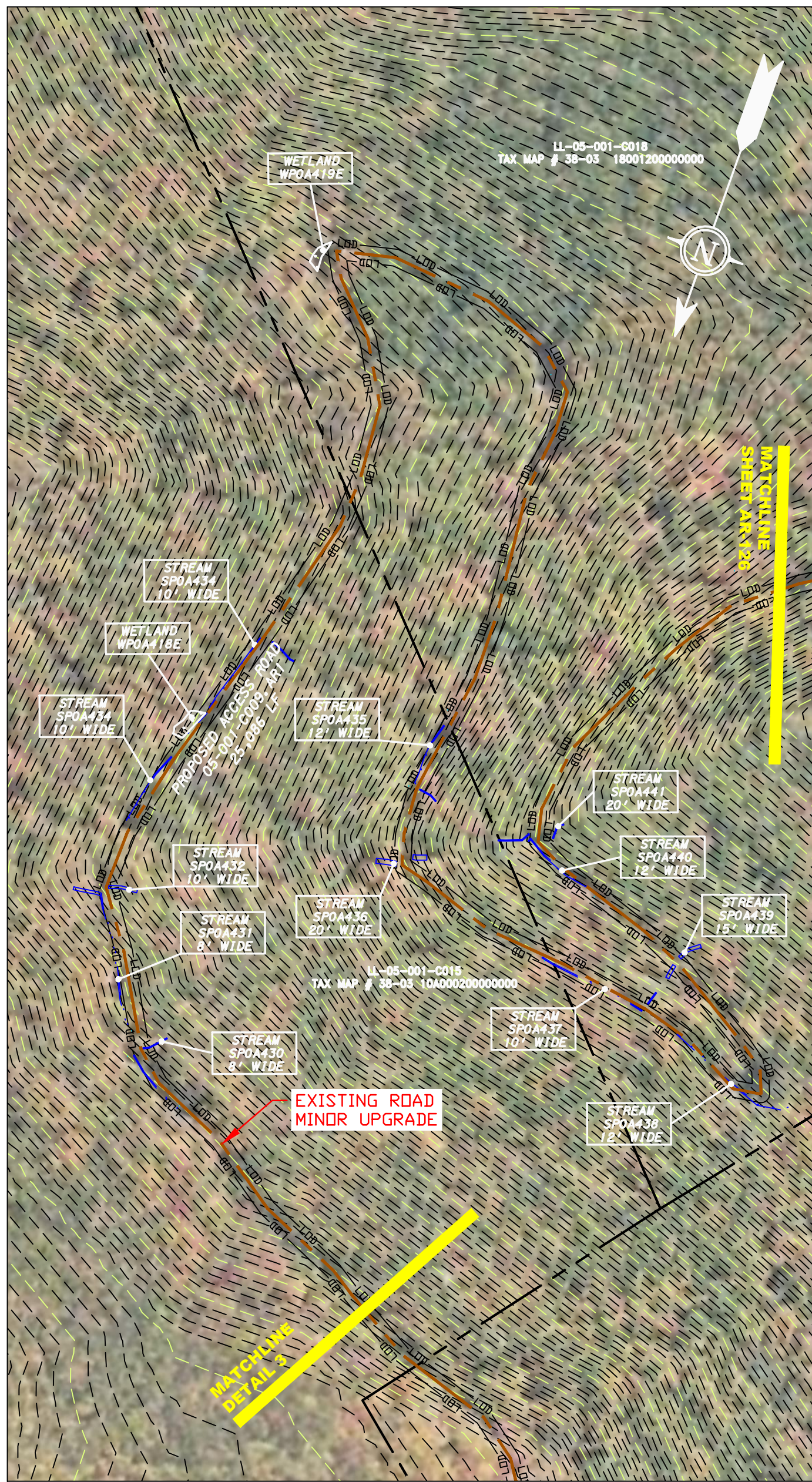
ACCESS ROAD
DETAIL 1



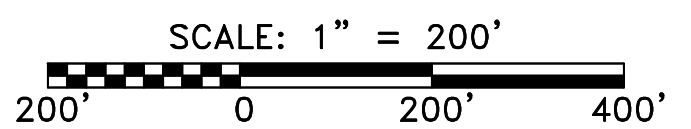
ACCESS ROAD
DETAIL 2



ACCESS ROAD
DETAIL 3



ACCESS ROAD
DETAIL 4



LEGEND

	PROPERTY LINE		STORM SEWER		EXTRA WORK SPACE		LIMIT OF DISTURBANCE	
	FENCE		UNDERGROUND ELECTRIC		TOPSOIL SEGREGATION AREA		BELTED SILT RETENTION FENCE (BSRF)	
	STREAM		WATER LINE		AREA OF NO DISTURBANCE		SUPER SILT FENCE	
	EXISTING GAS PIPELINE		SANITARY SEWER		PROPOSED TEMPORARY R.O.W.		SEDIMENT BARRIER	
	OVERHEAD UTILITY LINES		EDGE OF GRAVEL		WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)		ORANGE SAFETY FENCE	
	ACCESS ROAD		PROPOSED PERMANENT EASEMENT		UTILITY POLE		ROADSIDE DITCH	
	PROPOSED GAS PIPELINE		PROPOSED GAS PIPELINE (NO GROUND SURVEY)					SOIL TYPE
				NOTE: THE PE SEAL AND SIGNATURE APPLIES ONLY TO THE E&S CONTROL DESIGN COMPLETED BY ERM (SEE NOTE 12).				TYPICAL BIC SLOPE CATEGORY
							CULVERT/WATERBAR	

NOTES:

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J:\2665 -GAI\WORK ORDER 02 - SOUTHEAST PIPELINE (SECTION 1)\1 - REROUTE 1A\ACCESS ROAD SHEETS\MBE_CHK1_SPREAD_2_CAS_AR-125.DWG

PROJECT NO./DASH NO. 140468	
TASK NO. 005	SUB TASK NO. 00
GROUP ID D	DRAWING NO. AR-125
25	OF 31

FOCALONTAS COUNTY, WEST VIRGINIA

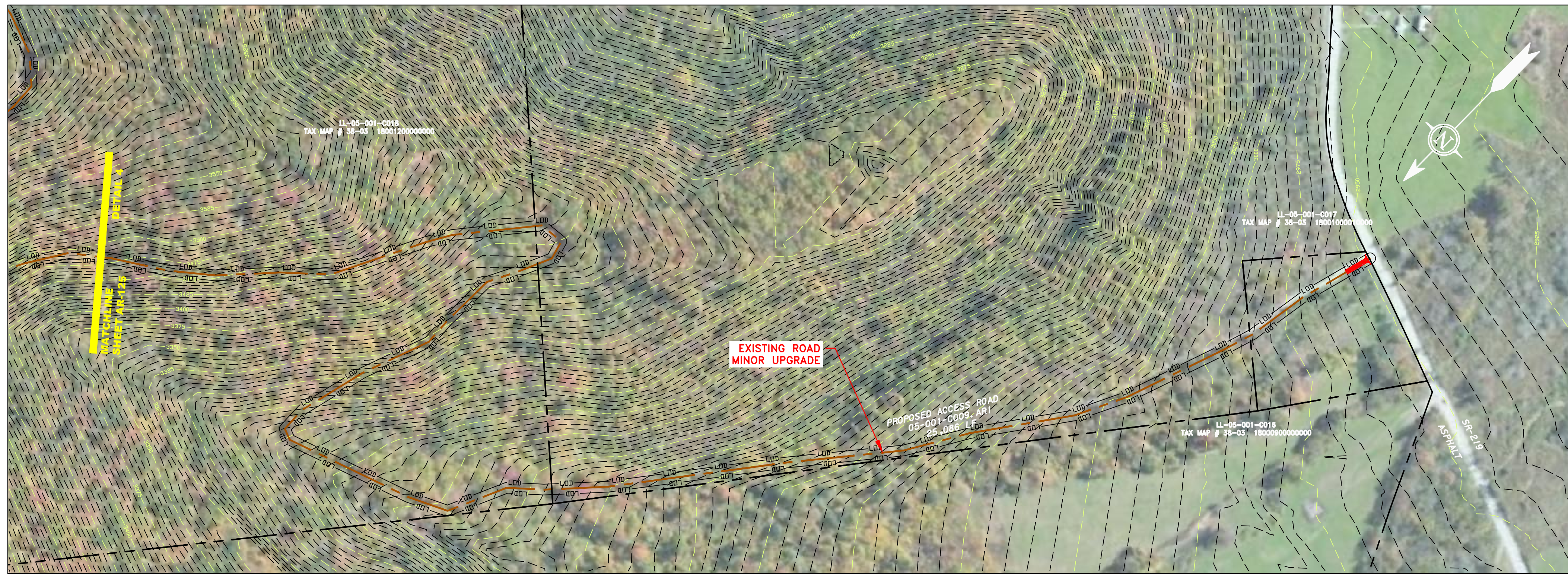
ATLANTIC COAST PIPELINE, LLC
C/O DOMINION TRANSMISSION, INC.
925 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330

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

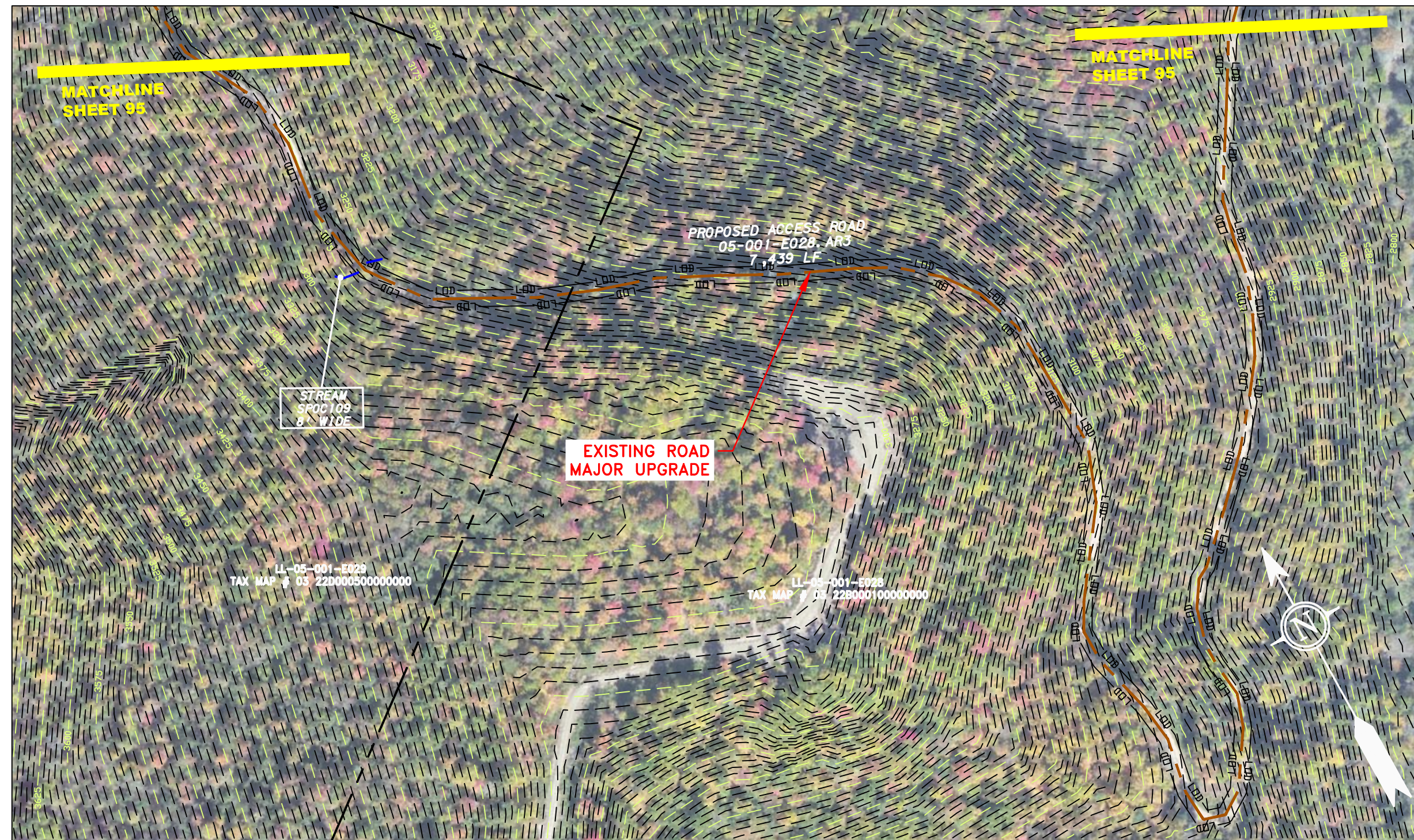
gai consultants
SOUTHPOINTE OFFICE
6000 TOWN CENTER BLVD.
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mbe
monah basin
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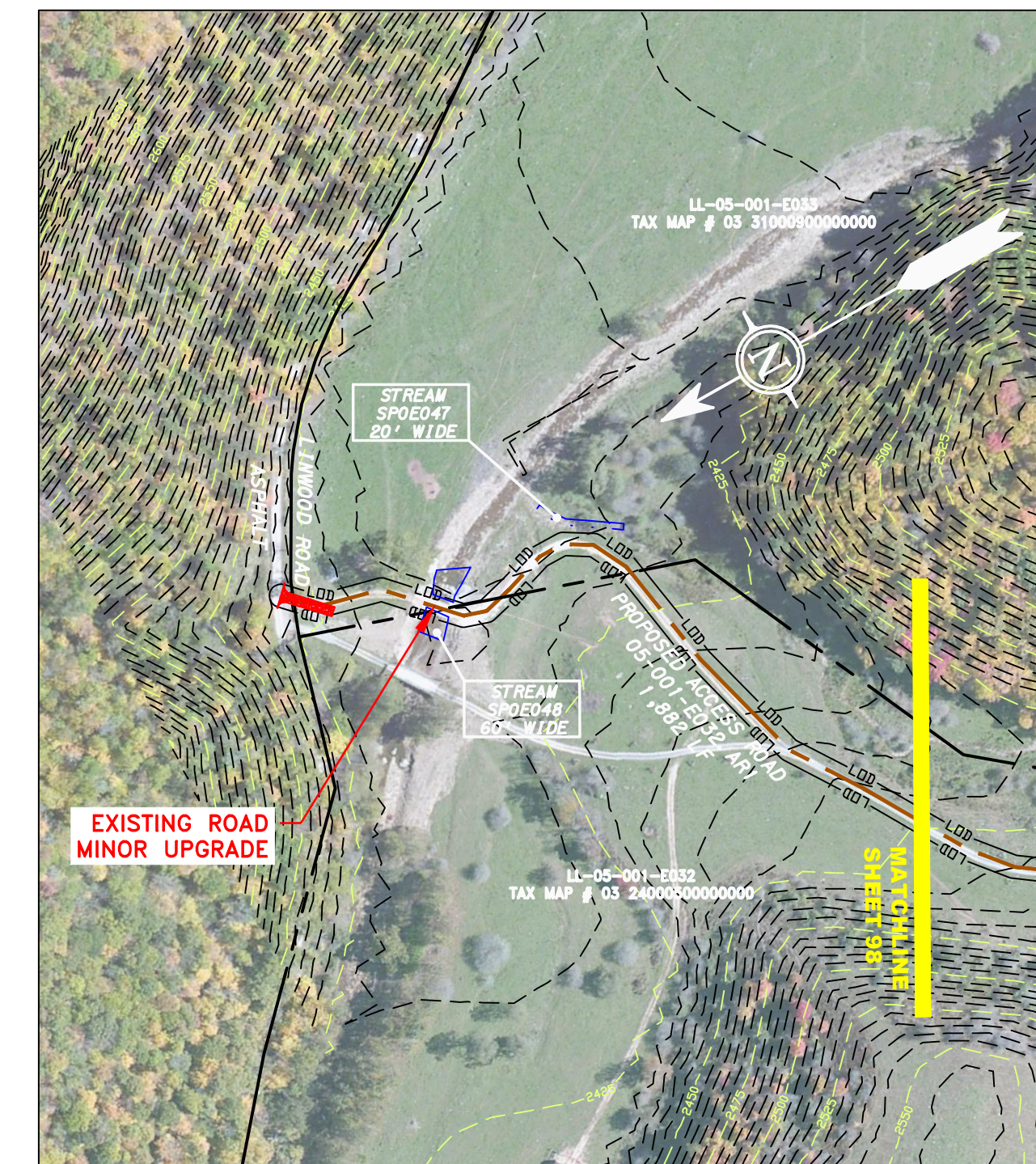
REVISIONS



ACCESS ROAD
DETAIL 1



ACCESS ROAD
DETAIL 2



ACCESS ROAD
DETAIL 3

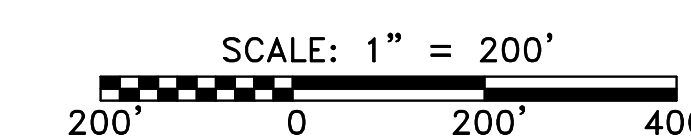
LEGEND

— X — X —	PROPERTY LINE	— E —	STORM SEWER	[Hatched Box]	EXTRA WORK SPACE	[Hatched Box]	TOPSOIL SEGREGATION AREA	▼	PERMANENT WATERBAR/SLOPE BREAKER	— LOD —	LIMIT OF DISTURBANCE
— X — X —	FENCE	— W —	UNDERGROUND ELECTRIC	[Dotted Box]	AREA OF NO DISTURBANCE	[Hatched Box]	PROPOSED TEMPORARY R.O.W.	□	TEMPORARY WATERBAR/SLOPE BREAKER	— BSRF —	BELTED SILT RETENTION FENCE (BSRF)
— G — G —	STREAM	— S —	WATER LINE	[Green Box]	WETLAND	[Hatched Box]	UTILITY POLE	□	TRENCH BREAKER/PLUG	— SSF —	SUPER SILT FENCE
— OH —	EXISTING GAS PIPELINE	— SAN —	SANITARY SEWER	[Green Box]	WETLAND	[Hatched Box]	UTILITY POLE	□	TRENCH BREAKER/PLUG BLEEDER	— 111.03 —	COMPOST FILTER SOCK
— OH —	OVERHEAD UTILITY LINES	— E —	EDGE OF GRAVEL	[Green Box]	WETLAND	[Hatched Box]	UTILITY POLE	□	DRAIN AND OUTLET	— 30-58% —	SEDIMENT BARRIER IDENTIFICATION
— OH —	ACCESS ROAD	— E —	PROPOSED PERMANENT EASEMENT	[Green Box]	WETLAND	[Hatched Box]	UTILITY POLE	□	STREAM CROSSING	— 111.03 —	ORANGE SAFETY FENCE
— OH —	PROPOSED GAS PIPELINE	— E —	PROPOSED GAS PIPELINE (NO GROUND SURVEY)	[Green Box]	WETLAND	[Hatched Box]	UTILITY POLE	□	USFWS STREAM CROSSING WITH ENHANCED CONTROLS	— 111.03 —	ROADSIDE DITCH
— OH —	PROPOSED GAS PIPELINE	— E —	PROPOSED GAS PIPELINE (NO GROUND SURVEY)	[Green Box]	WETLAND	[Hatched Box]	UTILITY POLE	□	SEEP	— 111.03 —	SOIL TYPE
— OH —	PROPOSED GAS PIPELINE	— E —	PROPOSED GAS PIPELINE (NO GROUND SURVEY)	[Green Box]	WETLAND	[Hatched Box]	UTILITY POLE	□	CONSTRUCTION ENTRANCE WITH DITCH	— 111.03 —	TYPICAL BIC SLOPE CATEGORY
— OH —	PROPOSED GAS PIPELINE	— E —	PROPOSED GAS PIPELINE (NO GROUND SURVEY)	[Green Box]	WETLAND	[Hatched Box]	UTILITY POLE	□	CULVERT AS NEEDED	— 111.03 —	SLOPE INCLINATION
— OH —	PROPOSED GAS PIPELINE	— E —	PROPOSED GAS PIPELINE (NO GROUND SURVEY)	[Green Box]	WETLAND	[Hatched Box]	UTILITY POLE	□	CULVERT WATERBAR	— 111.03 —	

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

NOTES

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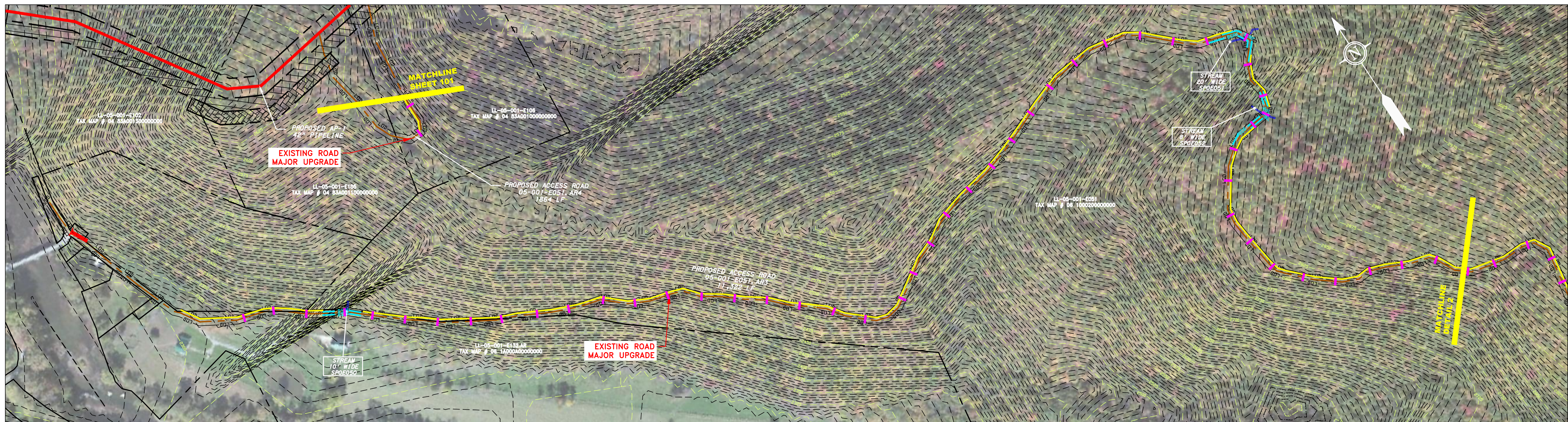


J:\2665 -GAI\WORK ORDER 02 - SOUTHEAST PIPELINE (SECTION 1)\1 - REROUTE 1A\ACCESS ROAD SHEETS\MBE_CHK1_SPREAD_2_CAS_AR-126.DWG

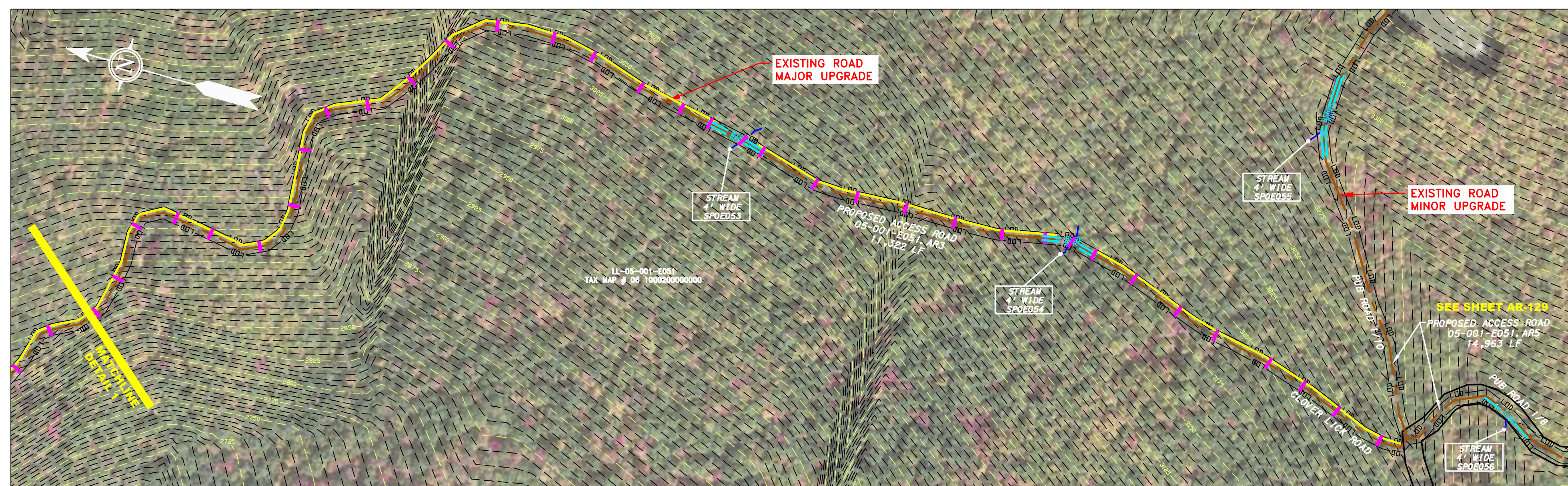
AP-1 PIPELINE ACCESS ROADS 05-001-C009.AR1, 05-001-E028.AR3, 05-001-E032.AR1	
POCAHONTAS COUNTY, WEST VIRGINIA ATLANTIC COAST PIPELINE, LLC C/O DOMINION TRANSMISSION, INC. 925 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330	
SCALE:	AS SHOWN
DATE:	6/5/17
DRAWN:	CLM
CHECKED:	DLH
APPROVED:	NET
SOUTHPOINTE OFFICE 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-126
26	OF 31

NO.	DATE	CHKD.	APPROV.	DESCRIPTION

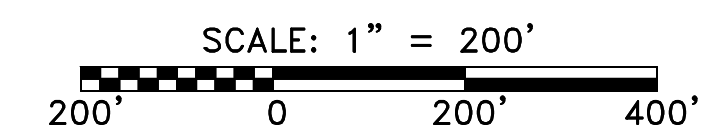
J:\2665 -GAI\WORK ORDER 02 - SOUTHEAST PIPELINE (SECTION 1)\1 - REROUTE 1A\ACCESS ROAD SHEETS\MBE_CHK1_SPREAD_2_CAS_AR-127.DWG



ACCESS ROAD
DETAIL 1



ACCESS ROAD
DETAIL 2



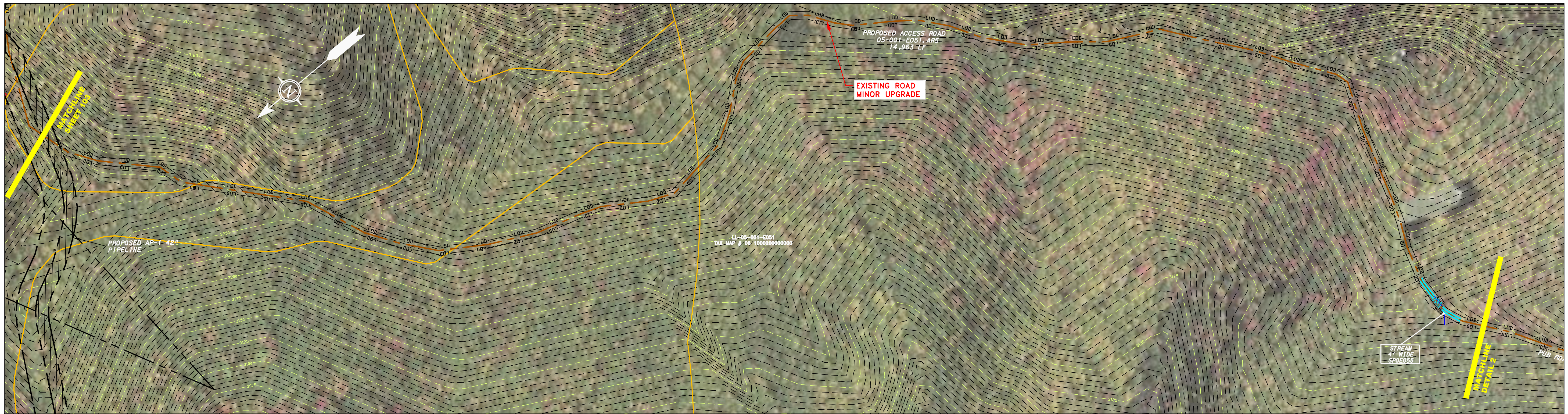
LEGEND

— X — X —	FENCE	— E —	UNDERGROUND ELECTRIC	[Hatched Box]	EXTRA WORK SPACE	[Hatched Box]	TOPSOIL SEGREGATION AREA
— G — G —	EXISTING GAS PIPELINE	— W —	WATER LINE	[Dotted Box]	AREA OF NO DISTURBANCE	[Hatched Box]	PROPOSED TEMPORARY R.O.W.
— OH —	OVERHEAD UTILITY LINES	— SAN —	SANITARY SEWER	[Green Box]	WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)	[Circle]	UTILITY POLE
— — — —	ACCESS ROAD	— — — —	PROPOSED PERMANENT EASEMENT	[Triangle]	PERMANENT WATERBAR/SLOPE BREAKER	[Triangle]	TEMPORARY WATERBAR/SLOPE BREAKER
— — — —	PROPOSED GAS PIPELINE (NO GROUND SURVEY)			[Square]	TRENCH BREAKER/PLUG	[Square]	TRENCH BREAKER/PLUG BLEEDER DRAIN AND OUTLET
				[Diamond]	STREAM CROSSING	[Diamond]	USFWS STREAM CROSSING WITH ENHANCED CONTROLS
				[Circle]	SEEP	[Circle]	CONSTRUCTION ENTRANCE WITH DITCH CULVERT AS NEEDED
				[Line]	CULVERT/ WATERBAR	[Line]	LIMIT OF DISTURBANCE
				[Line]		[Line]	BELTED SILT RETENTION FENCE (BSRF)
						[Line]	SUPER SILT FENCE
						[Line]	COMPOST FILTER SOCK
						[Line]	SEDIMENT BARRIER IDENTIFICATION
						[Line]	ORANGE SAFETY FENCE
						[Line]	ROADSIDE DITCH
						[Line]	SOIL TYPE
						[Line]	TYPICAL BIC SLOPE CATEGORY SLOPE INCLINATION

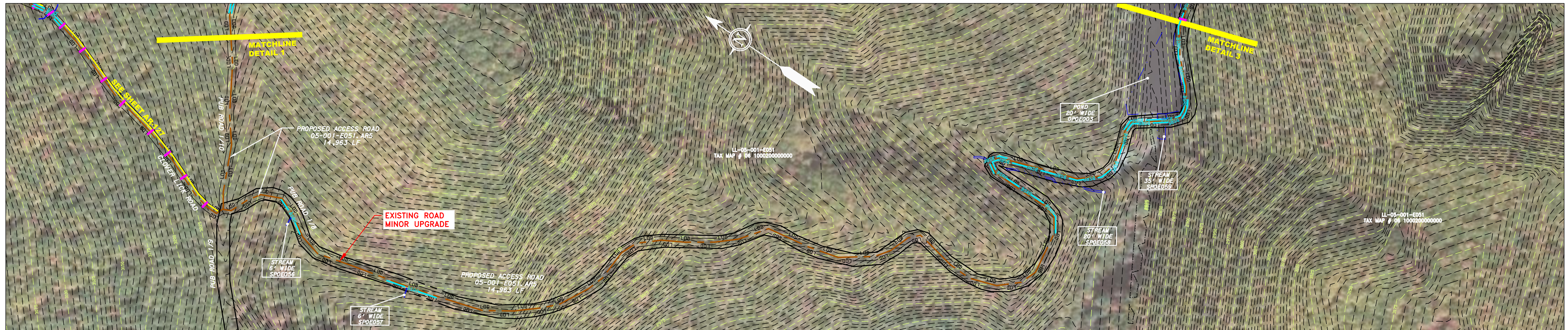
NOTES

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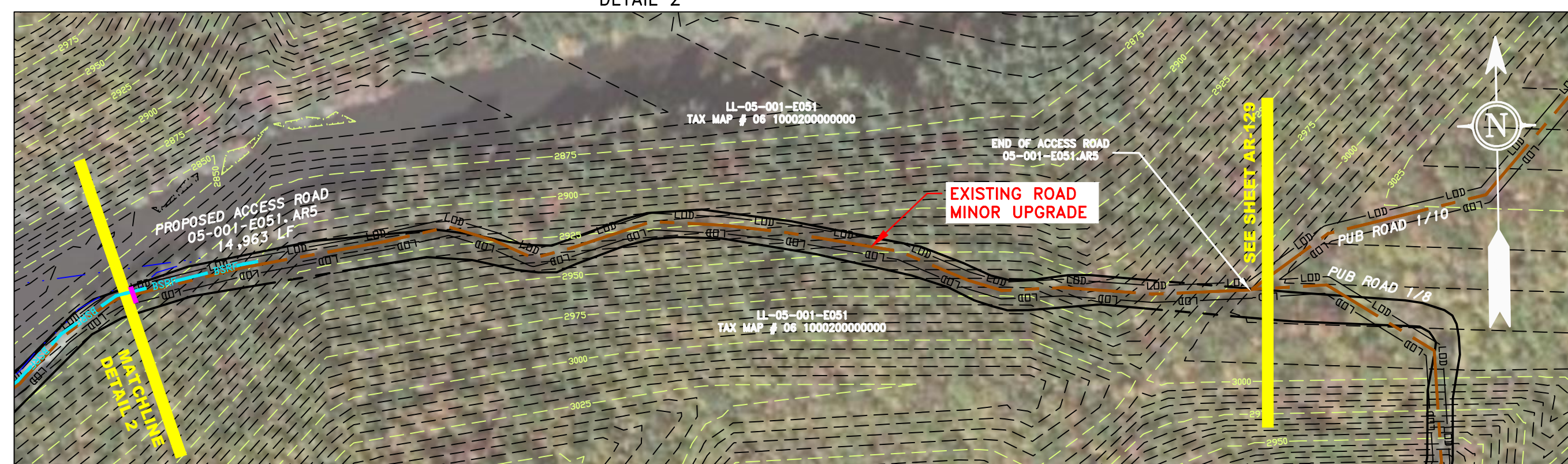
AP-1 PIPELINE ACCESS ROADS 05-001-E051.AR3, 05-001-E051.AR4 ATLANTIC COAST PIPELINE, LLC C/O DOMINION TRANSMISSION, INC. 925 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330													
SCALE: AS SHOWN DATE: 6/5/17 DRAWN: CLM CHECKED: DLH APPROVED: NET	REVISIONS <table border="1"> <tr> <th>NO.</th> <th>DATE</th> <th>BY</th> <th>CHKD.</th> <th>APPROV.</th> <th>DESCRIPTION</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	NO.	DATE	BY	CHKD.	APPROV.	DESCRIPTION						
NO.	DATE	BY	CHKD.	APPROV.	DESCRIPTION								
SOUTHPOINT OFFICE 6000 TOWN CENTER BLVD. CANONSBURG, PA 15317 724-573-3545													
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-127												
27 OF 31	6/5/2017 4:05 PM												



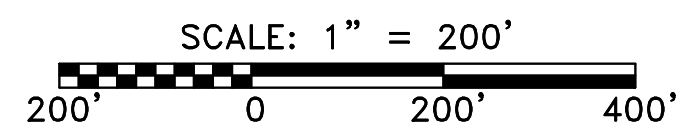
ACCESS ROAD
DETAIL 1



ACCESS ROAD
DETAIL 2



ACCESS ROAD
DETAIL 3



LEGEND

— X — X —	PROPERTY LINE	— E —	STORM SEWER	[Hatched Box]	EXTRA WORK SPACE	[Hatched Box]	TOPSOIL SEGREGATION AREA
— G — G —	FENCE	— W —	UNDERGROUND ELECTRIC	[Dotted Box]	AREA OF NO DISTURBANCE	[Hatched Box]	PROPOSED TEMPORARY R.O.W.
— OH —	STREAM	— SAN —	WATER LINE	[Green Box]	WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)	[Circle]	UTILITY POLE
—	EXISTING GAS PIPELINE	—	SANITARY SEWER	—	—	[Triangle]	PERMANENT WATERBAR/SLOPE BREAKER
—	OVERHEAD UTILITY LINES	—	EDGE OF GRAVEL	—	—	[Square]	TEMPORARY WATERBAR/SLOPE BREAKER
—	ACCESS ROAD	—	PROPOSED PERMANENT EASEMENT	—	—	[Circle]	TRENCH BREAKER/PLUG
—	PROPOSED GAS PIPELINE	—	PROPOSED GAS PIPELINE (NO GROUND SURVEY)	—	—	[Circle]	TRENCH BREAKER/PLUG BLEEDER
						[Circle]	DRAIN AND OUTLET
						[Circle]	STREAM CROSSING
						[Circle]	USFWS STREAM CROSSING WITH ENHANCED CONTROLS
						[Circle]	SEEP
						[Circle]	CONSTRUCTION ENTRANCE WITH DITCH
						[Circle]	CULVERT AS NEEDED
						[Circle]	CULVERT WATERBAR

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

[Line]	LOD	LIMIT OF DISTURBANCE
[Line]	BSRF	BELTED SILT RETENTION FENCE (BSRF)
[Line]	SSF	SUPER SILT FENCE
[Line]	111.03	COMPOST FILTER SOCK
[Line]	X	SEDIMENT BARRIER IDENTIFICATION
[Line]	ORANGE SAFETY FENCE	ORANGE SAFETY FENCE
[Line]	ROADSIDE DITCH	ROADSIDE DITCH
[Line]	SOIL TYPE	SOIL TYPE
[Line]	A1E1 30-58%	TYPICAL BIC SLOPE CATEGORY SLOPE INCLINATION

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J:\2665 -GAI\WORK ORDER 02 - SOUTHEAST PIPELINE (SECTION 1)\1 - REROUTE 1A\ACCESS ROAD SHEETS\MBE_CHK1_SPREAD_2_CAS_AR-128.DWG

PROJECT NO./DASH NO. 140468	
TASK NO. 005	SUB TASK NO. 00
GROUP ID D	DRAWING NO. AR-128
28	OF 31

POCAHONTAS COUNTY, WEST 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: CLM
CHECKED: DLH
APPROVED: NET

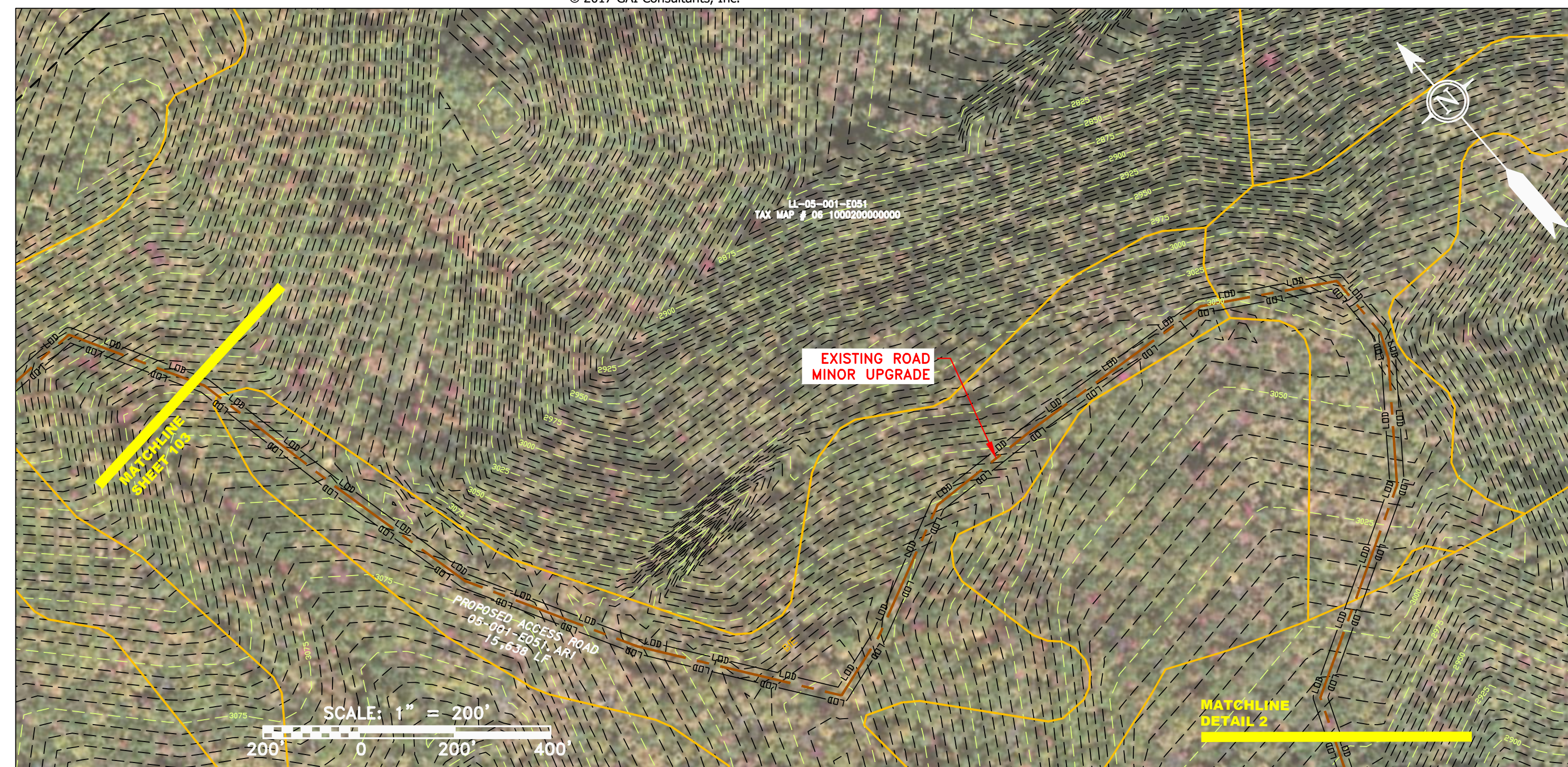
gai consultants
SOUTHPOINTE OFFICE
6000 TOWN CENTER BLVD.
CANONSBURG, PA 15317
724-673-3545

mbe
monahoh basin engineers
300 BUSINESS CENTER DRIVE
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412-788-2433

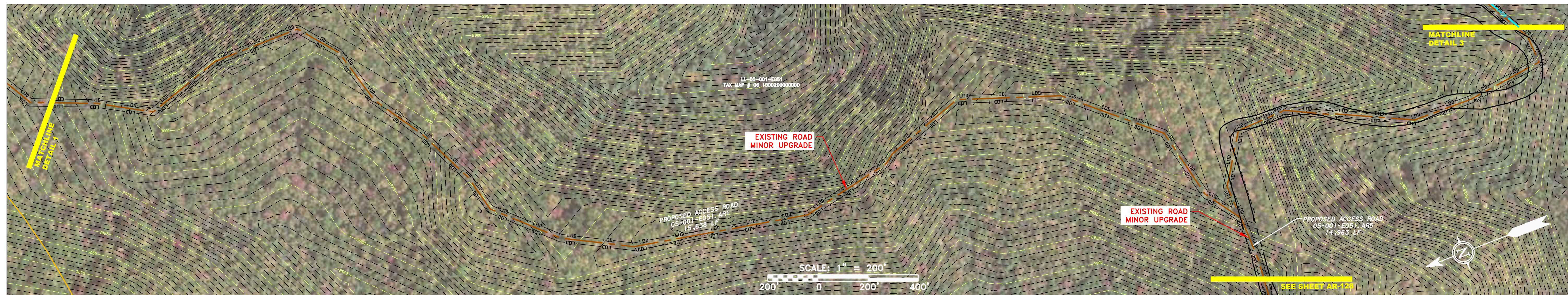
REVISIONS

NO.	DATE	BY	CHKD.	APPRO.	DESCRIPTION

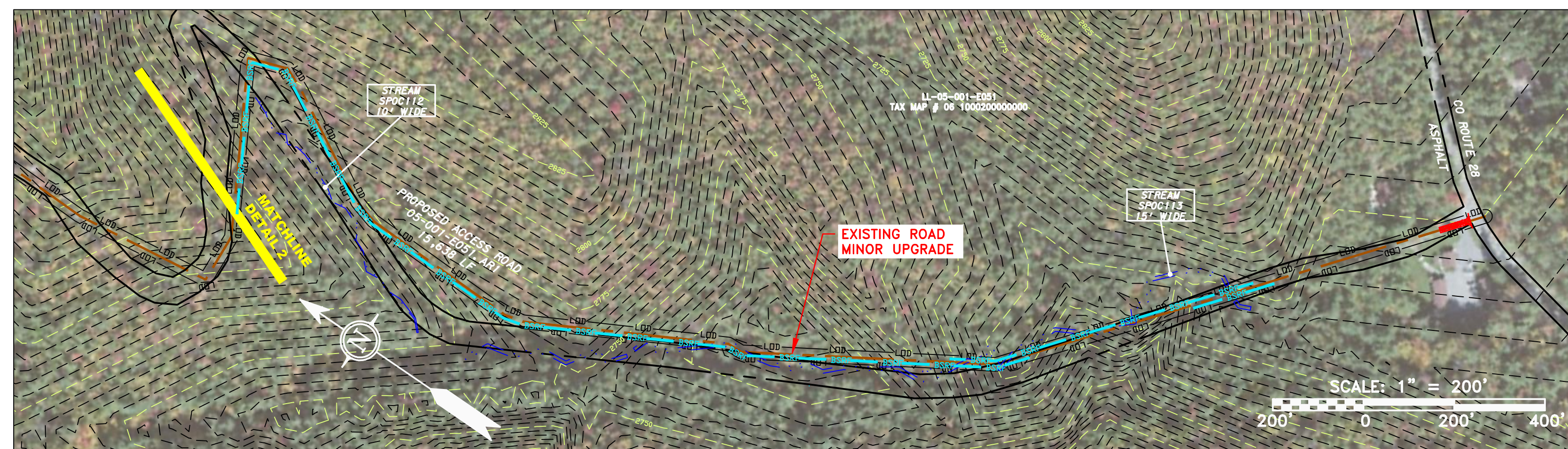
Professional Engineer Seal: JAMES A. HAMMER, No. 12195, State of West Virginia, Professional Engineer, ERM.



ACCESS ROAD
DETAIL 1



ACCESS ROAD
DETAIL 2



ACCESS ROAD
DETAIL 3

LEGEND

— X — X —	PROPERTY LINE	— E —	STORM SEWER	[Hatched Box]	EXTRA WORK SPACE	[Hatched Box]	TOPSOIL SEGREGATION AREA
— G — G —	FENCE	— W —	UNDERGROUND ELECTRIC	[Dotted Box]	AREA OF NO DISTURBANCE	[Hatched Box]	PROPOSED TEMPORARY R.O.W.
— OH —	STREAM	— SAN —	WATER LINE	[Green Dotted Box]	WETLAND	[Circle with Cross]	UTILITY POLE
— G — G —	EXISTING GAS PIPELINE	— SAN —	SANITARY SEWER	[Green Dotted Box]	WETLAND	[Circle with Cross]	UTILITY POLE
— OH —	OVERHEAD UTILITY LINES	— SAN —	EDGE OF GRAVEL	[Green Dotted Box]	WETLAND	[Circle with Cross]	UTILITY POLE
— OH —	ACCESS ROAD	— SAN —	PROPOSED PERMANENT EASEMENT	[Green Dotted Box]	WETLAND	[Circle with Cross]	UTILITY POLE
— OH —	PROPOSED GAS PIPELINE	— SAN —	PROPOSED GAS PIPELINE (NO GROUND SURVEY)	[Green Dotted Box]	WETLAND	[Circle with Cross]	UTILITY POLE

LEGEND

[Red Triangle]	PERMANENT WATERBAR/SLOPE BREAKER	[Blue Line]	LOD	[Blue Line]	LIMIT OF DISTURBANCE
[Red Triangle]	TEMPORARY WATERBAR/SLOPE BREAKER	[Blue Line]	BSRF	[Blue Line]	BELTED SILT RETENTION FENCE (BSRF)
[Red Triangle]	TRENCH BREAKER/PLUG	[Blue Line]	SSF	[Blue Line]	SUPER SILT FENCE
[Red Triangle]	TRENCH BREAKER/PLUG BLEEDER	[Blue Line]	111.03	[Blue Line]	COMPOST FILTER SOCK
[Red Triangle]	DRAIN AND OUTLET	[Blue Line]	ORANGE SAFETY FENCE	[Blue Line]	SEDIMENT BARRIER
[Red Triangle]	STREAM CROSSING	[Blue Line]	ROADSIDE DITCH	[Blue Line]	IDENTIFICATION
[Red Triangle]	USFWS STREAM CROSSING WITH ENHANCED CONTROLS	[Blue Line]	SOIL TYPE	[Blue Line]	ORANGE SAFETY FENCE
[Red Triangle]	SEEP	[Blue Line]	A1 LE	[Blue Line]	ROADSIDE DITCH
[Red Triangle]	CONSTRUCTION ENTRANCE WITH DITCH	[Blue Line]	30-58%	[Blue Line]	SOIL TYPE
[Red Triangle]	CULVERT AS NEEDED	[Blue Line]		[Blue Line]	TYPICAL BIC SLOPE CATEGORY
[Red Triangle]	CULVERT WATERBAR	[Blue Line]		[Blue Line]	SLOPE INCLINATION

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NO.	DATE	CHKD.	APPD.	DESCRIPTION



AP-1 PIPELINE ACCESS ROADS
05-001-E051.AR1, 05-001-E051-ARS
POCAHONTAS COUNTY, WEST VIRGINIA
ATLANTIC COAST PIPELINE, LLC
C/O DOMINION TRANSMISSION, INC.
925 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330

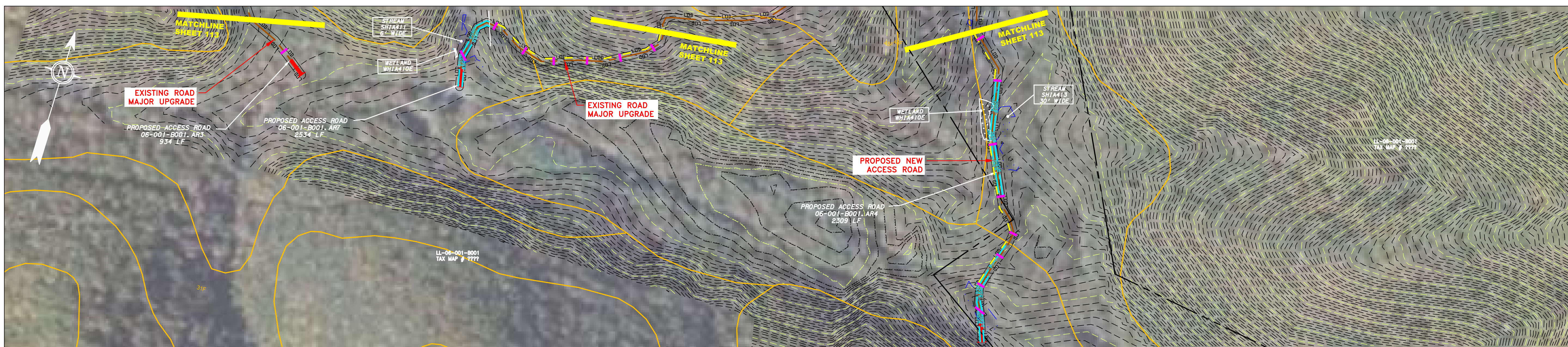
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APPROVED:	NET



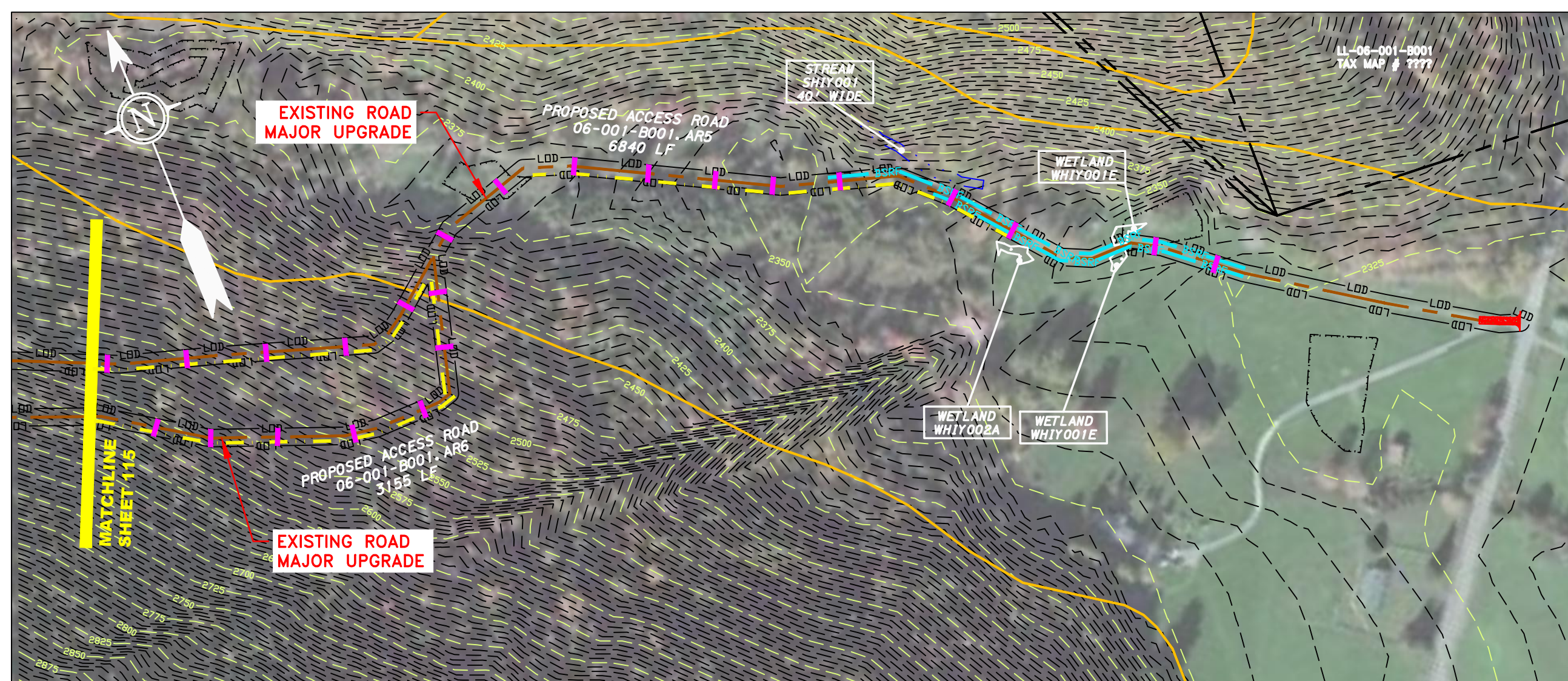
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TASK NO.	SUB TASK NO.	
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GROUP ID	DRAWING NO.	
D	AR-129	
29	OF	31



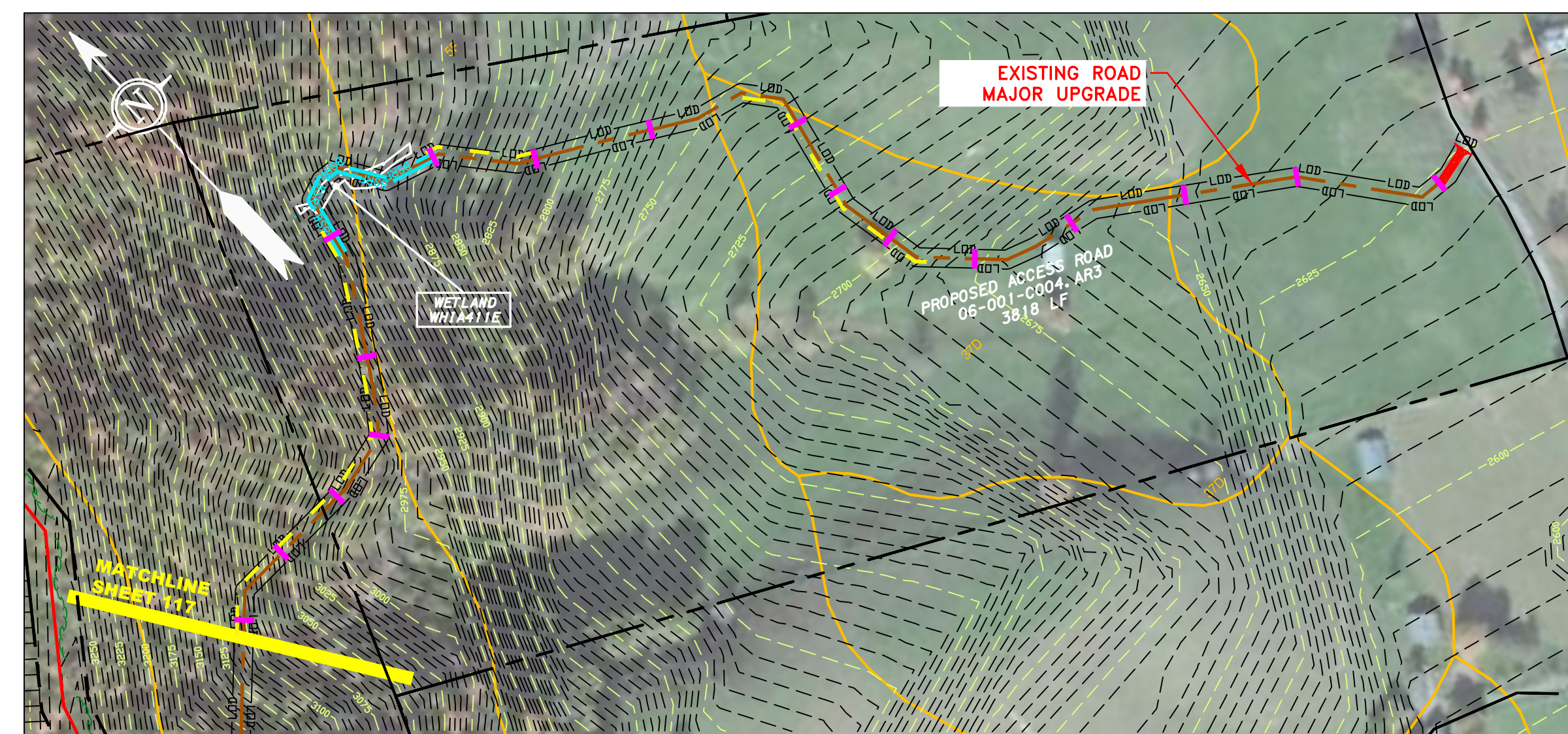
ACCESS ROAD
DETAIL 1



ACCESS ROAD
DETAIL 2

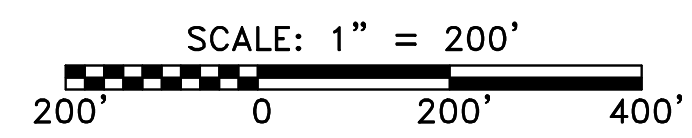


ACCESS ROAD
DETAIL 3



ACCESS ROAD
DETAIL 4

LEGEND	
—	PROPERTY LINE
- - -	STORM SEWER
- - -	UNDERGROUND ELECTRIC
- - -	WATER LINE
- - -	SANITARY SEWER
- - -	EDGE OF GRAVEL
- - -	PROPOSED PERMANENT EASEMENT
- - -	PROPOSED GAS PIPELINE (NO GROUND SURVEY)
X - X	FENCE
—	STREAM
G - G	EXISTING GAS PIPELINE
OH	OVERHEAD UTILITY LINES
—	ACCESS ROAD
—	PROPOSED GAS PIPELINE
[Hatched Box]	EXTRA WORK SPACE
[Hatched Box]	TOPSOIL SEGREGATION AREA
[Hatched Box]	AREA OF NO DISTURBANCE
[Hatched Box]	PROPOSED TEMPORARY R.O.W.
[Green Box]	WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)
[Circle]	UTILITY POLE
[Triangle]	PERMANENT WATERBAR/SLOPE BREAKER
[Triangle]	TEMPORARY WATERBAR/SLOPE BREAKER
[Square]	TRENCH BREAKER/PLUG
[Square]	TRENCH BREAKER/PLUG BLEEDER
[Square]	DRAIN AND OUTLET
[Diamond]	STREAM CROSSING
[Diamond]	USFWS STREAM CROSSING WITH ENHANCED CONTROLS
[Circle]	SEEP
[Circle]	CONSTRUCTION ENTRANCE WITH DITCH CULVERT AS NEEDED
[Circle]	CULVERT WATERBAR
[Line]	LIMIT OF DISTURBANCE
[Line]	BELTED SILT RETENTION FENCE (BSRF)
[Line]	SUPER SILT FENCE
[Line]	COMPOST FILTER SOCK
[Line]	SEDIMENT BARRIER IDENTIFICATION
[Line]	ORANGE SAFETY FENCE
[Line]	ROADSIDE DITCH
[Line]	SOIL TYPE
[Line]	TYPICAL BIC SLOPE CATEGORY
[Line]	SLOPE INCLINATION



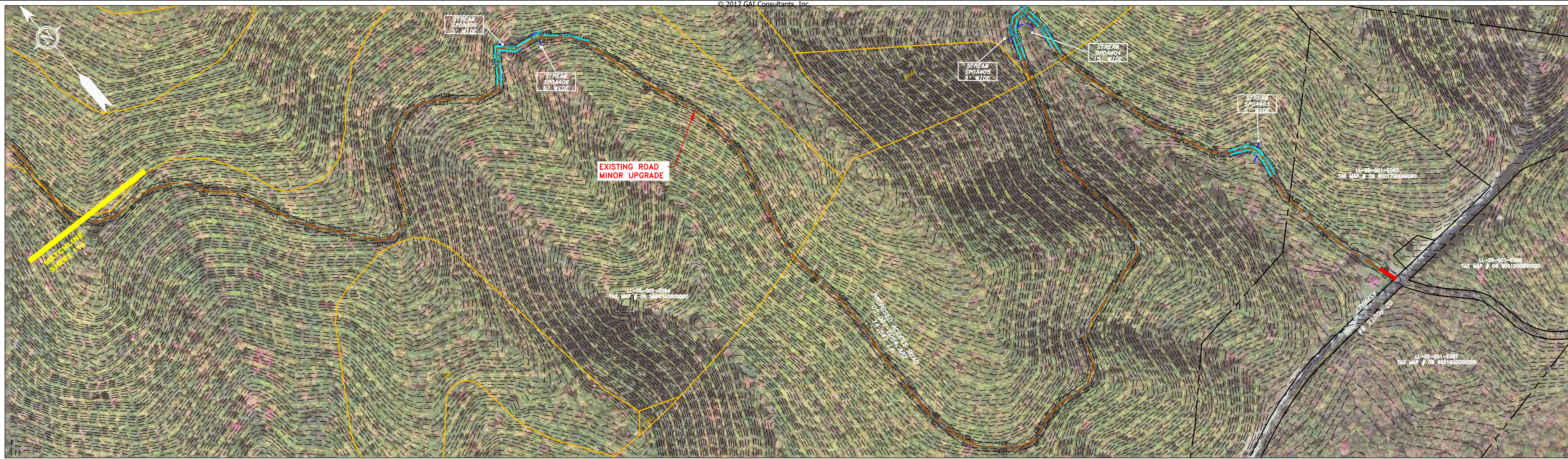
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 - EROSION CONTROL MATTING SHALL BE PLACED IN AREAS OF 30% SLOPE AND GREATER, WHICH ARE INDICATED ON THE BEST IN CLASS STEEP SLOPES BAND.
 - ACCESS ROADS HAVE BEEN GROUPED INTO FOUR CATEGORIES - 1) EXISTING ROADS NO IMPROVEMENTS, 2) EXISTING ROADS 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.

J:\2665 -GAI WORK ORDER 02 - SOUTHEAST PIPELINE (SECTION 1)\1 - REROUTE 1A\ACCESS ROAD SHEETS\MBE_CHK1_SPREAD_2_CAS_AR-130.DWG

AP-1 PIPELINE ACCESS ROADS 05-001-E064,AR1, 05-001-E064,AR4, 05-001-E064,AR5, 05-001-E064,AR6, 06-001-B001,AR3, 06-001-B001,AR7, 06-001-B001,AR4, 06-001-B001,AR5, 06-001-B001,AR6	
ATLANTIC COAST PIPELINE, LLC C/O DOMINION TRANSMISSION, INC. RANDOLPH COUNTY, WEST VIRGINIA / HIGHLAND COUNTY, VIRGINIA 925 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330	
SCALE:	AS SHOWN
DATE:	6/5/17
DRAWN:	RDC
CHECKED:	DLH
APPROVED:	NET
SOUTHPONTE 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-130
30	OF 31

REVISIONS

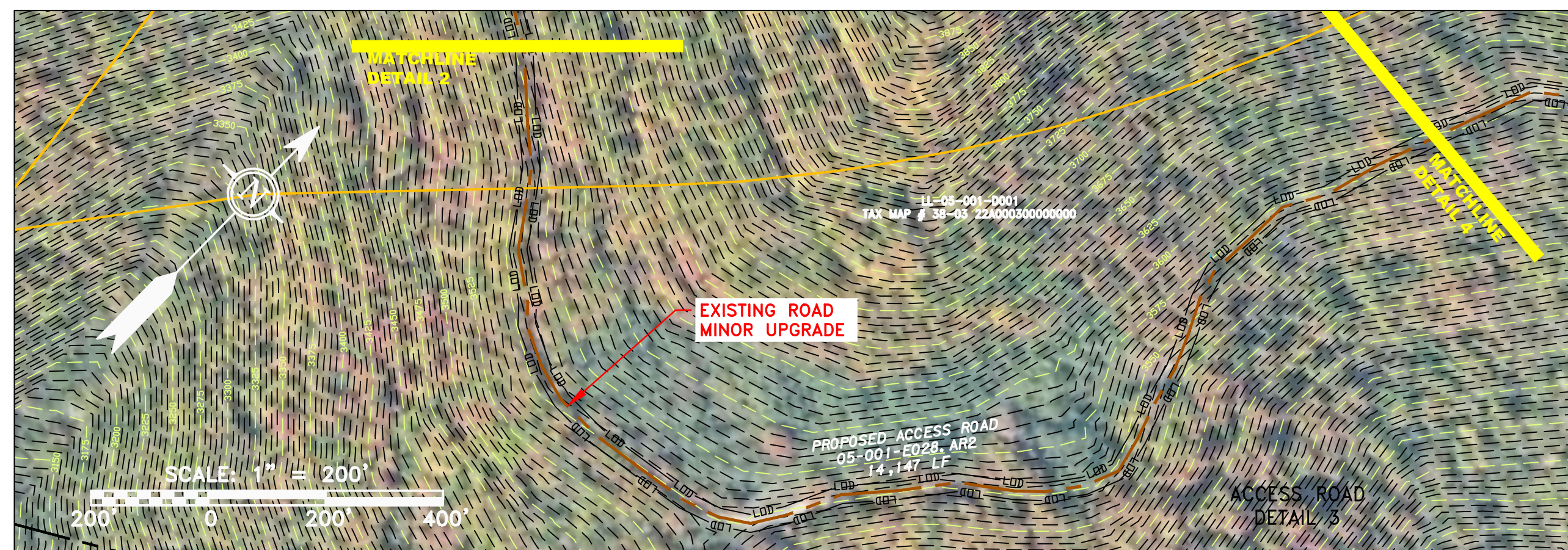
J:\2665 -GAI WORK ORDER 02 - SOUTHEAST PIPELINE (SECTION 1)\1 - REROUTE 1A\ACCESS ROAD SHEETS\MBE_CHK1_SPREAD_2_CAS_AR-131.DWG



ACCESS ROAD
DETAIL 1



ACCESS ROAD
DETAIL 2



ACCESS ROAD
DETAIL 3



ACCESS ROAD
DETAIL 4

LEGEND

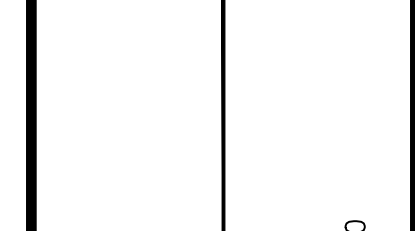
—	PROPERTY LINE	---	STORM SEWER	[Hatched]	EXTRA WORK SPACE	[Hatched]	TOPSOIL SEGREGATION AREA
X-X	FENCE	E	UNDERGROUND ELECTRIC	[Dotted]	AREA OF NO DISTURBANCE	[Hatched]	PROPOSED TEMPORARY R.O.W.
—	STREAM	W	WATER LINE	[Green]	WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)	⊕	UTILITY POLE
G-G	EXISTING GAS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

▽	PERMANENT WATERBAR/SLOPE BREAKER	—	LOD	—	LIMIT OF DISTURBANCE
▽	TEMPORARY WATERBAR/SLOPE BREAKER	—	BSRF	—	BELTED SILT RETENTION FENCE (BSRF)
⊕	TRENCH BREAKER/PLUG	—	SSF	—	SUPER SILT FENCE
⊕	TRENCH BREAKER/PLUG BLEEDER	—	111.03	—	COMPOST FILTER SOCK IDENTIFICATION
⊕	DRAIN AND OUTLET	—	X	—	ORANGE SAFETY FENCE
⊕	STREAM CROSSING	—	—	—	ROADSIDE DITCH
⊕	USFWS STREAM CROSSING WITH ENHANCED CONTROLS	—	—	—	SOIL TYPE
⊕	SEEP	—	—	—	CONSTRUCTION ENTRANCE WITH DITCH CULVERT AS NEEDED
⊕	CULVERT WATERBAR	—	—	—	TYPICAL BIC SLOPE CATEGORY SOPE 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.
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- 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.
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NO.	DATE	BY	CHKD.	APPROV.	DESCRIPTION



AP-1 PIPELINE ACCESS ROADS
05-001-E064.AR2, 05-001-E028.AR2

POCAHONTAS COUNTY, WEST 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: CLM
CHECKED: DLH
APPROVED: NET

gai consultants

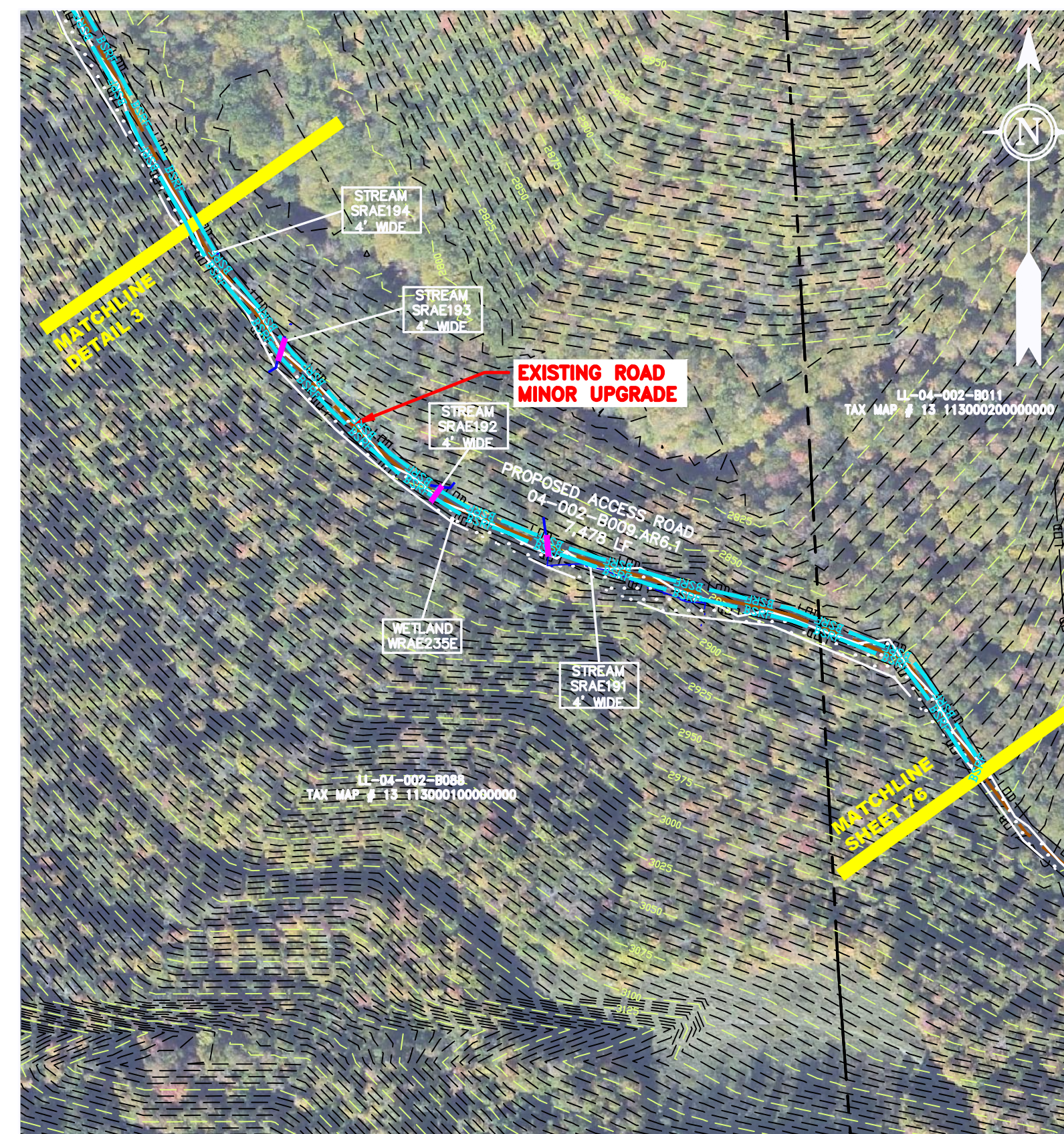
SOUTHPOINT OFFICE
6000 TOWN CENTER BLVD.
CANONSBURG, PA 15317
724-873-3545

mbe monaloh basin engineers

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-131
31	OF 31

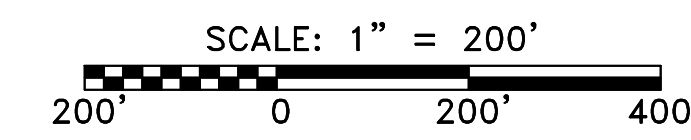
6/5/2017 3:36 PM



ACCESS ROAD
DETAIL 1



ACCESS ROAD
DETAIL 2



LEGEND

— X — X —	FENCE	— E —	UNDERGROUND ELECTRIC	— W —	WATER LINE	— SAN —	SANITARY SEWER	— OH —	OVERHEAD UTILITY LINES	—	EDGE OF GRAVEL	—	PROPOSED PERMANENT EASEMENT	—	PROPOSED GAS PIPELINE (NO GROUND SURVEY)
—	PROPERTY LINE	—	STORM SEWER	—	WETLAND	—	WETLAND	—	ACCESS ROAD	—	PROPOSED PERMANENT EASEMENT	—	PROPOSED GAS PIPELINE	—	PROPOSED GAS PIPELINE (NO GROUND SURVEY)

□	EXTRA WORK SPACE	□	TOPSOIL SEGREGATION AREA
□	AREA OF NO DISTURBANCE	□	PROPOSED TEMPORARY R.O.W.
□	WETLAND	□	UTILITY POLE

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

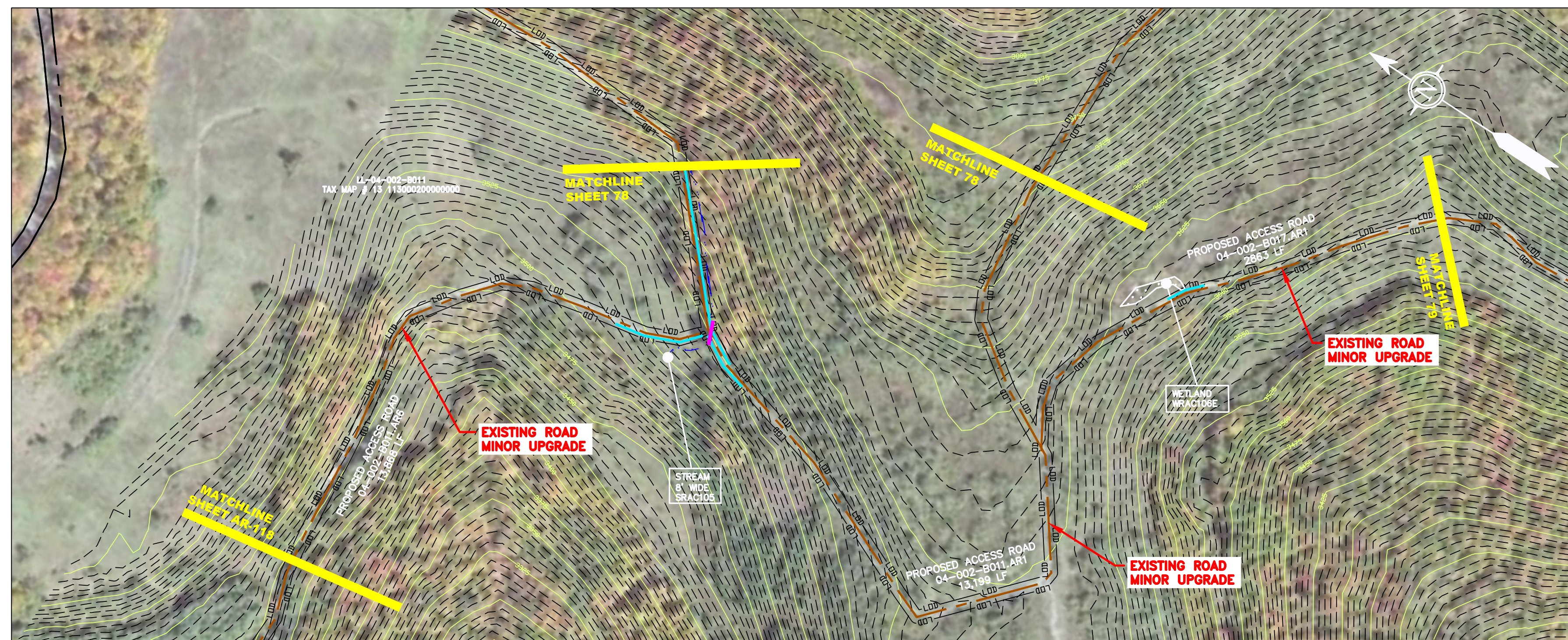
▽	PERMANENT WATERBAR/SLOPE BREAKER	—	LIMIT OF DISTURBANCE
▽	TEMPORARY WATERBAR/SLOPE BREAKER	—	BELTED SILT RETENTION FENCE (BSRF)
□	TRENCH BREAKER/PLUG	—	SUPER SILT FENCE
□	TRENCH BREAKER/PLUG BLEEDER	—	COMPOST FILTER SOCK
□	DRAIN AND OUTLET	—	SEDIMENT BARRIER IDENTIFICATION
□	STREAM CROSSING	—	ORANGE SAFETY FENCE
□	USFWS STREAM CROSSING WITH ENHANCED CONTROLS	—	ROADSIDE DITCH
□	SEEP	—	SOIL TYPE
□	CONSTRUCTION ENTRANCE WITH DITCH	—	CULVERT
□	CULVERT WATERBAR	—	TYPICAL BIC SLOPE CATEGORY

- 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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 - 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 SLOPES BAND.
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 - ERM IS SOLELY RESPONSIBLE FOR THE NATURE AND LOCATION OF THE DEPICTED BICPS 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.

J:\2665 -GAI\WORK ORDER 02 - SOUTHEAST PIPELINE (SECTION 1)\1 - REROUTE 1A\ACCESS ROAD SHEETS\MBE_CHK1_SPREAD_2_CAS_AR-116.DWG

AP-1 PIPELINE ACCESS ROADS 04-002-8009 AR6.1 RANDOLPH COUNTY, WEST 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:	RDC
CHECKED:	DLH
APPROVED:	NET
SOUTHPOINTE OFFICE 6000 TOWN CENTER BLVD. CANONSBURG, PA 15317 724-573-3545	
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-116
16	OF 31
REVISIONS NO. DATE DWG. CHKD. APPD. DESCRIPTION	

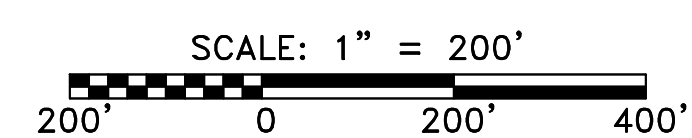
J:\2665 -GAI\WORK ORDER 02 - SOUTHEAST PIPELINE (SECTION 1)\1 - REROUTE 1A\ACCESS ROAD SHEETS\MBE_CHK1_SPREAD_2_CAS_AR-117.DWG



ACCESS ROAD
DETAIL 1

LEGEND	
---	PROPERTY LINE
X-X	FENCE
---	STREAM
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
---	WATER LINE
---	SANITARY SEWER
---	EDGE OF GRAVEL
---	PROPOSED PERMANENT EASEMENT
---	EXTRA WORK SPACE
---	AREA OF NO DISTURBANCE
---	WETLAND
---	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 12).



▼	PERMANENT WATERBAR/SLOPE BREAKER	---	LOD	LIMIT OF DISTURBANCE
▽	TEMPORARY WATERBAR/SLOPE BREAKER	---	BSRF	BELTED SILT RETENTION FENCE (BSRF)
□	TRENCH BREAKER/PLUG	---	SSF	SUPER SILT FENCE
□	TRENCH BREAKER/PLUG BLEEDER	---	111.03	COMPOST FILTER SOCK IDENTIFICATION
□	DRAIN AND OUTLET	---	X	ORANGE SAFETY FENCE
□	STREAM CROSSING	---	---	ROADSIDE DITCH
□	USFWS STREAM CROSSING WITH ENHANCED CONTROLS	---	---	SOIL TYPE
□	SEEP	---	A1 (E)	TYPICAL BIC SLOPE CATEGORY
□	CONSTRUCTION ENTRANCE WITH DITCH	---	30-58%	SLOPE INCLINATION
□	CULVERT AS NEEDED	---	---	---
□	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.
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 - ERM IS SOLELY RESPONSIBLE FOR THE NATURE AND LOCATION OF THE DEPICTED BIC SLOPE CATEGORIES 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.

NO.	DATE	BY	CHKD.	APPROD.	DESCRIPTION



ERM

AP-1 PIPELINE ACCESS ROADS
04-002-B011.AR1, 04-002-B011.AR6,
04-002-B017.AR1
RANDOLPH COUNTY, WEST 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:	RDC
CHECKED:	DLH
APPROVED:	NET



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	AR-117	
17	OF	31

6/5/2017 3:57 PM



ACCESS ROAD
DETAIL 1



ACCESS ROAD
DETAIL 2

SCALE: 1" = 200'
200' 0 200' 400'

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	— W —	WATER LINE	[Green Box]	WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)	[Circle]	UTILITY POLE
— OH —	EXISTING GAS PIPELINE	— W —	SANITARY SEWER	[Dashed Line]	PROPOSED PERMANENT EASEMENT	[Triangle]	PERMANENT WATERBAR/SLOPE BREAKER
— — —	ACCESS ROAD	— W —	EDGE OF GRAVEL	[Triangle]	USFWS STREAM CROSSING WITH ENHANCED CONTROLS	[Triangle]	TEMPORARY WATERBAR/SLOPE BREAKER
— — —	PROPOSED GAS PIPELINE	— W —	PROPOSED PERMANENT EASEMENT	[Triangle]	CONSTRUCTION ENTRANCE WITH DITCH	[Triangle]	TRENCH BREAKER/PLUG
— — —	PROPOSED GAS PIPELINE (NO GROUND SURVEY)	— W —	PROPOSED PERMANENT EASEMENT	[Triangle]	CULVERT AS NEEDED	[Triangle]	TRENCH BREAKER/PLUG BLEEDER
		— W —	PROPOSED PERMANENT EASEMENT	[Triangle]	CULVERT WATERBAR	[Triangle]	DRAIN AND OUTLET

[Line]	LOD	[Line]	LIMIT OF DISTURBANCE
[Line]	BSRF	[Line]	BELTED SILT RETENTION FENCE (BSRF)
[Line]	SSF	[Line]	SUPER SILT FENCE
[Line]	111.03	[Line]	COMPOST FILTER SOCK IDENTIFICATION
[Line]	CUB	[Line]	ORANGE SAFETY FENCE
[Line]	A1 (E)	[Line]	ROADSIDE DITCH
[Line]	30-58%	[Line]	SOIL TYPE
[Line]		[Line]	TYPICAL BIC SLOPE CATEGORY SLOPE INCLINATION

NOTES:

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J:\2665 -GAI\WORK ORDER 02 - SOUTHEAST PIPELINE (SECTION 1)\1 - REROUTE 1A\ACCESS ROAD SHEETS\MBE_CHK1_SPREAD_2_CAS_AR-118.DWG

NO.	DATE	BY	CHKD.	APPROV.	DESCRIPTION



ERM

AP-1 PIPELINE ACCESS ROADS
04-002-B011-AR6, 04-002-B073-AR1

RANDOLPH COUNTY, WEST VIRGINIA

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

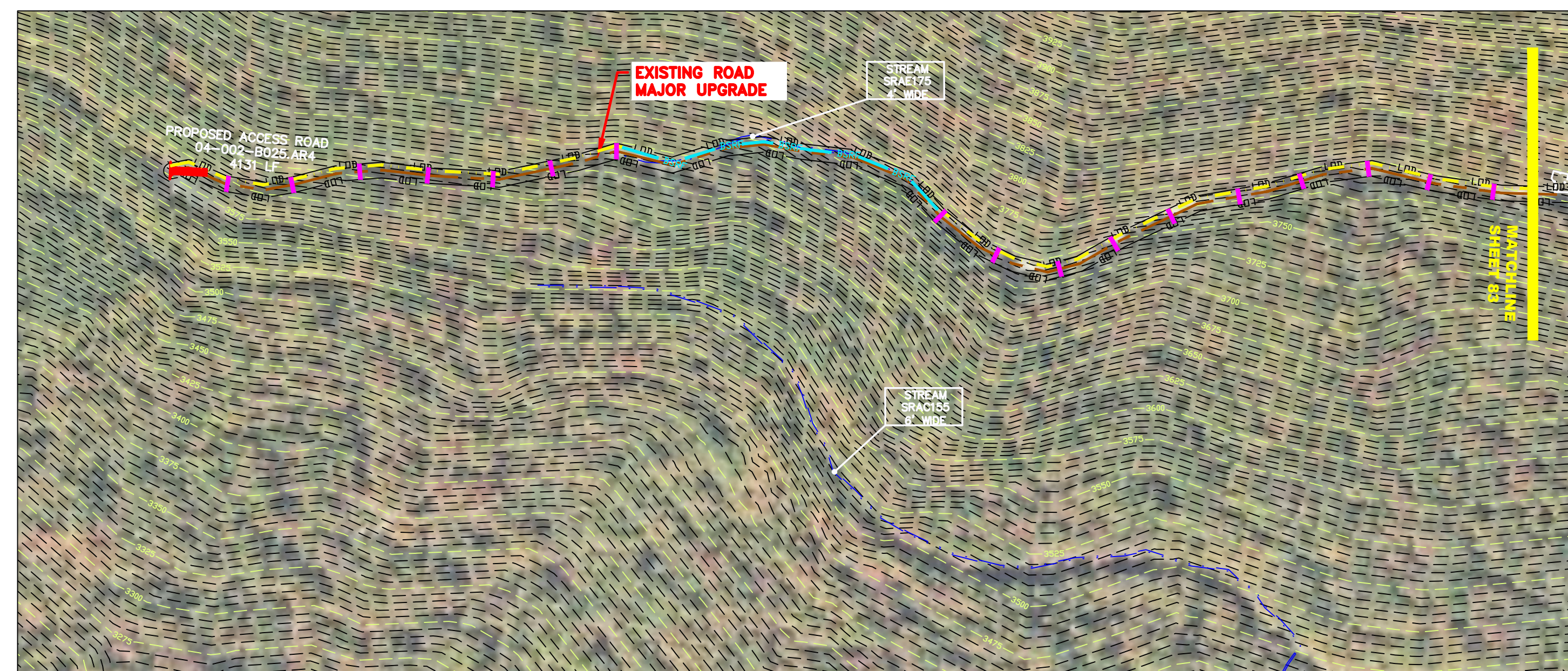
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DATE: 6/5/17
DRAWN: GOS
CHECKED: DLH
APPROVED: NET



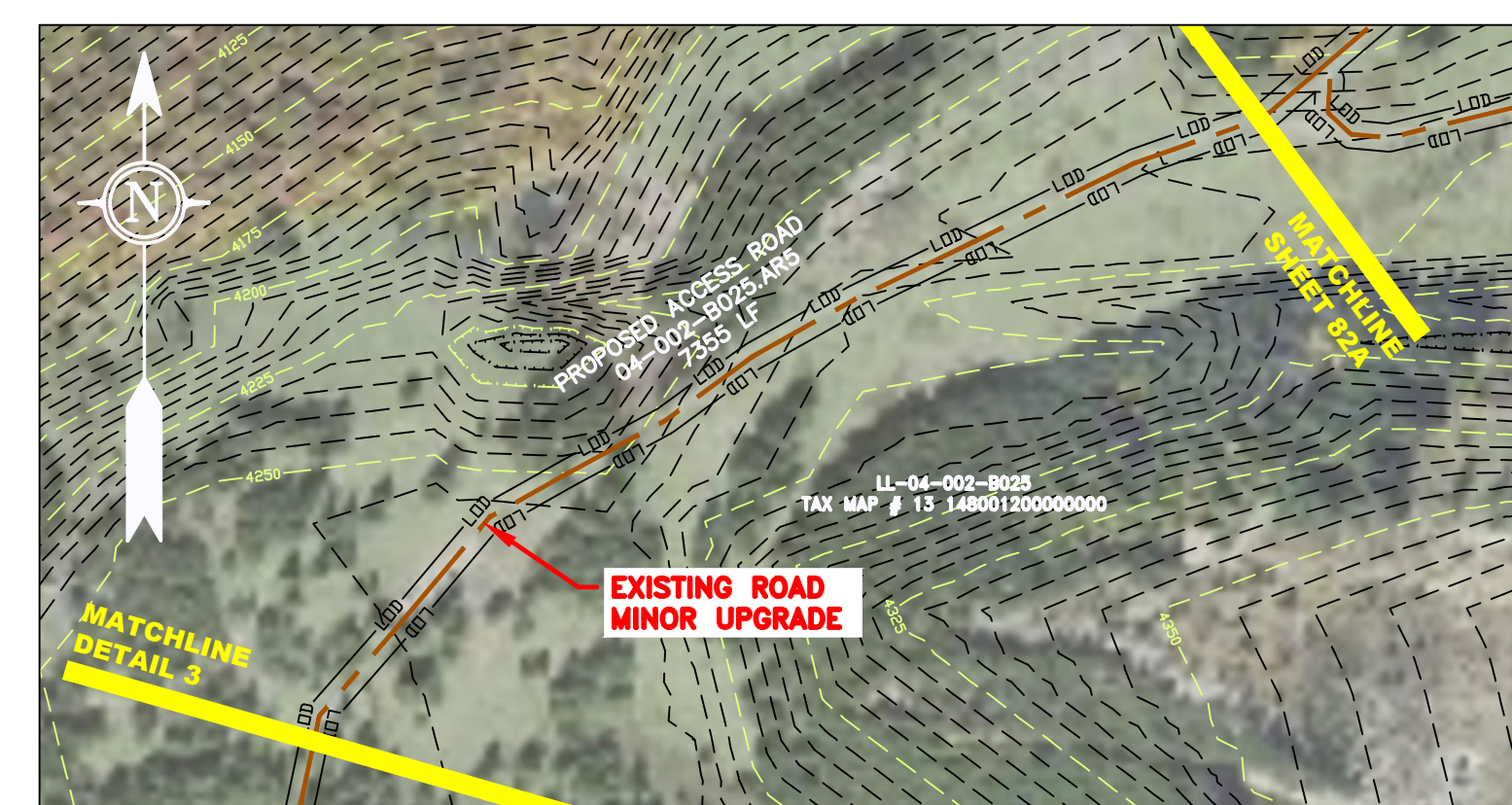
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TASK NO.	SUB TASK NO.	
005	00	
GROUP ID	DRAWING NO.	
D	AR-118	
18	OF	31

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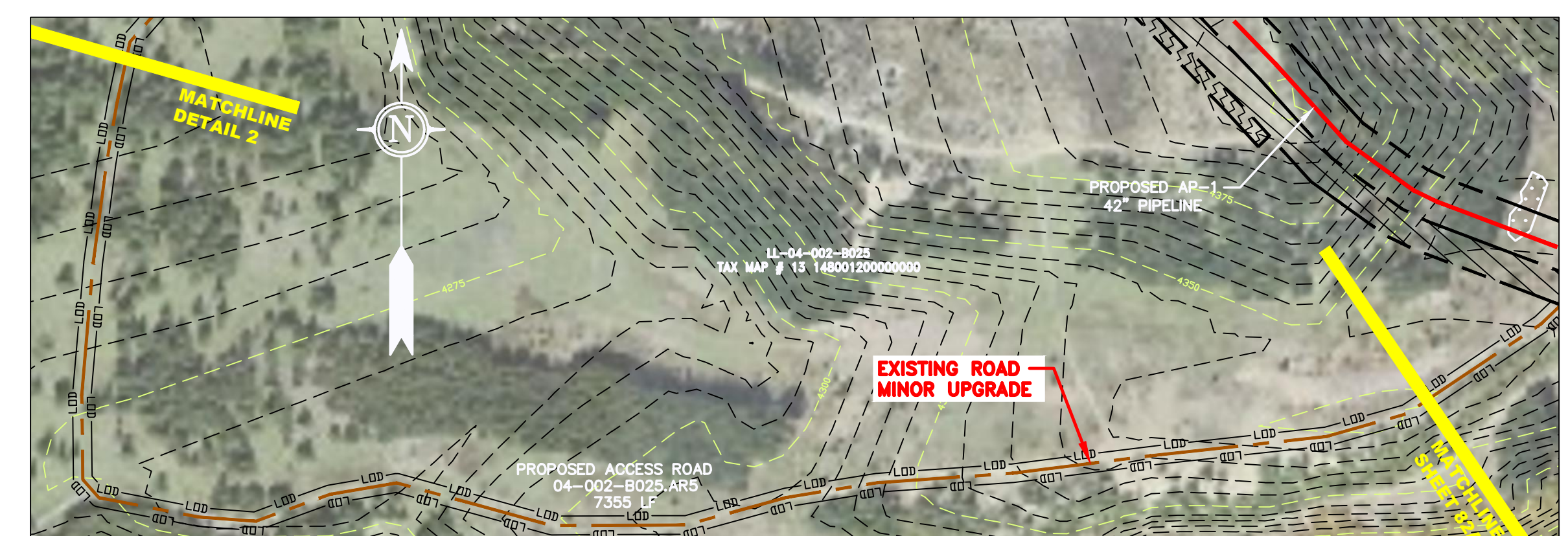
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ACCESS ROAD
DETAIL 1



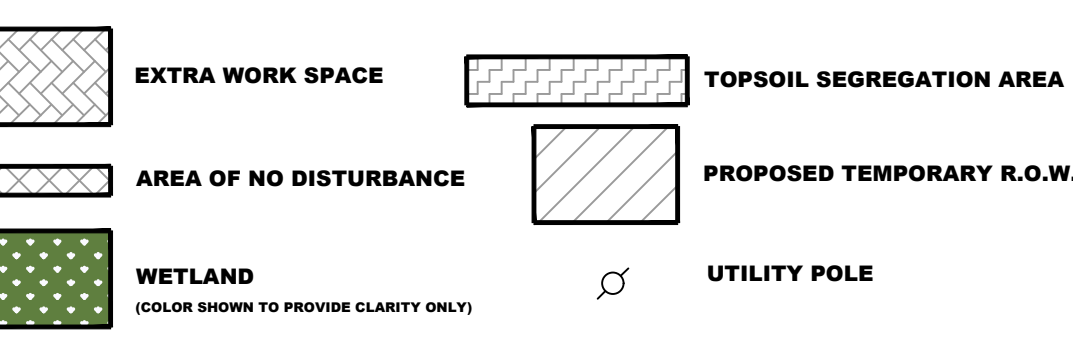
ACCESS ROAD
DETAIL 2



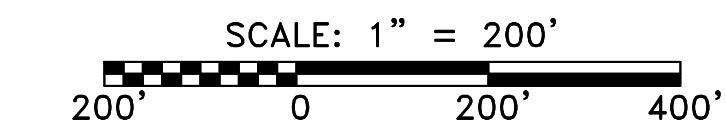
ACCESS ROAD
DETAIL 3

LEGEND

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



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



	PERMANENT WATERBAR/SLOPE BREAKER	---	LOD	---	LIMIT OF DISTURBANCE
	TEMPORARY WATERBAR/SLOPE BREAKER	---	BSRF	---	BELTED SILT RETENTION FENCE (BSRF)
	TRENCH BREAKER/PLUG	---	SSF	---	SUPER SILT FENCE
	TRENCH BREAKER/PLUG BLEEDER DRAIN AND OUTLET	---	111.03	---	COMPOST FILTER SOCK IDENTIFICATION
	STREAM CROSSING	---	X	---	ORANGE SAFETY FENCE
	USFWS STREAM CROSSING WITH ENHANCED CONTROLS	---	CUB	---	ROADSIDE DITCH
	SEEP	---	A1 (E)	---	SOIL TYPE
	CONSTRUCTION ENTRANCE WITH DITCH	---	30-58%	---	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 SLOPES BAND.
 - ACCESS ROADS HAVE BEEN GROUPED INTO FOUR CATEGORIES - 1) EXISTING ROADS NO IMPROVEMENTS, 2) EXISTING ROADS MINOR IMPROVEMENTS, 3) EXISTING ROADS MAJOR IMPROVEMENTS AND 4) NEW ROADS. APPROPRIATE EROSION AND SEDIMENT CONTROLS WILL BE PROVIDED FOR ROADS IN CATEGORIES 2, 3 AND 4. ROADS IN CATEGORIES 1 AND 2 HAVE ADEQUATE EXISTING DRAINAGE; DRAINAGE FEATURES WILL BE PROVIDED FOR ROADS IN CATEGORIES 3 AND 4.
 - *ERM IS SOLELY RESPONSIBLE FOR THE NATURE AND LOCATION OF THE DEPICTED BICMS 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.

NO.	DATE	BY	CHKD.	APPROD.	DESCRIPTION



AP-1 PIPELINE ACCESS ROADS
04-002-B025-AR4, 04-002-B025-AR5, 04-002-B025-AR6 &
04-002-B075-AR2
RANDOLPH COUNTY, WEST 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:	RDC
CHECKED:	DLH
APPROVED:	NET



PROJECT NO./DASH NO.	140468	
TASK NO.	SUB TASK NO.	
005	00	
GROUP ID	DRAWING NO.	
D	AR-119	
19	OF	31

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