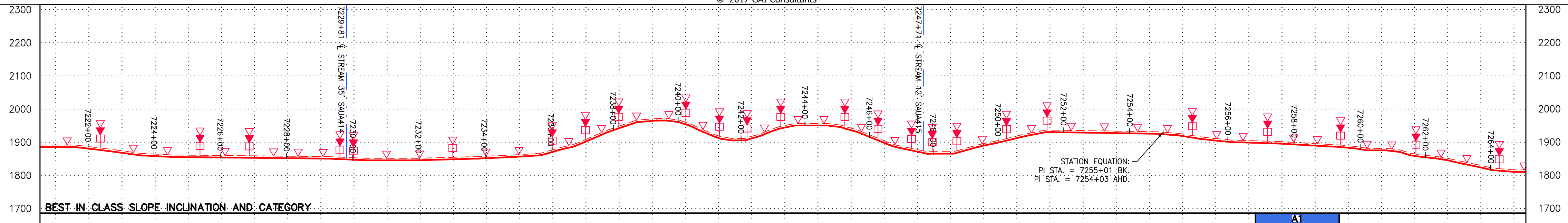


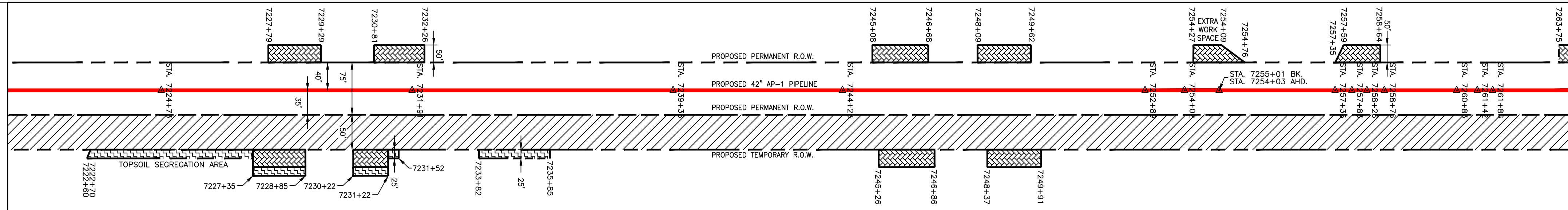
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NOTE: STATIONING SHOWN ON THE DRAWING IS BASED ON SLOPE MEASUREMENTS.

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



STATIONING & CONSTRUCTION LIMITS

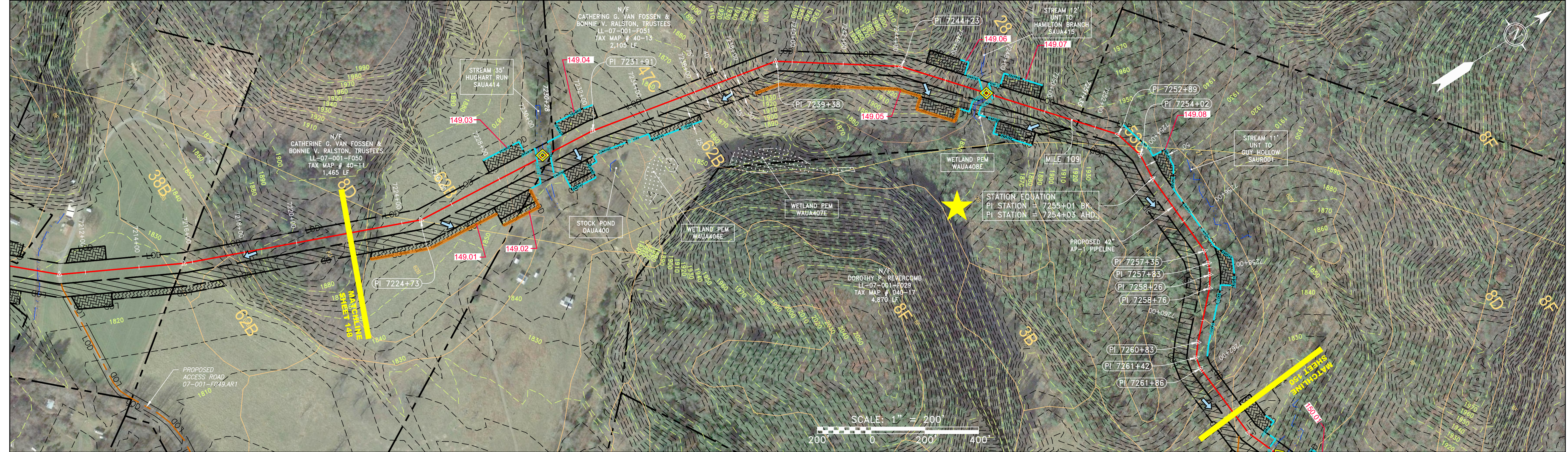


PROPERTY OWNERSHIP

N/F CATHERINE G. VAN FOSSEN & BONNIE V. RALSTON, TRUSTEES
LL-07-001-F050
TAX MAP # 40-11
1,465 LF

N/F CATHERINE G. VAN FOSSEN & BONNIE V. RALSTON, TRUSTEES
LL-07-001-F051
TAX MAP # 40-13
2,105 LF

N/F DOROTHY P. REVERCOMB
LL-07-001-F029
TAX MAP # 040-17
4,870 LF



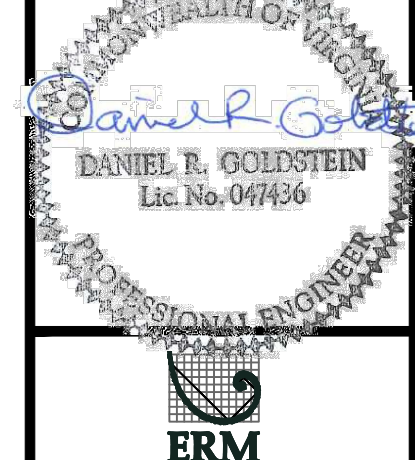
NOT TO SCALE
PIPE SPECIFICATION



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

- NOTES:**
- COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY - UTM WITH NAD83 DATUM, ZONE 17, US SURVEY FOOT, CENTRAL MERIDIAN 81° W.
 - CONTOURS AND TOPOGRAPHIC FEATURES WERE DERIVED FROM LIDAR DATA AND GPS SUB-METER GROUND SURVEY PERFORMED BY GAI CONSULTANTS, INC FROM 11-03-2014 THRU 11-07-2014.
 - IMAGERY TAKEN FROM GOOGLE EARTH.
 - THE PROPERTY LINES SHOWN ARE BASED ON GIS & TAX ASSESSMENT RECORDS (PROVIDED BY OTHERS). GAI CONSULTANTS MAKE NO GUARANTEE EITHER EXPRESSED OR IMPLIED AS TO THE ACCURACY OF THE RECORDS AS SHOWN ON THESE DRAWINGS.
 - STREAM AND WETLAND DATA SHOWN ON THE DRAWINGS WAS PROVIDED BY ERM.
 - EROSION AND SEDIMENTATION CONTROL ELEMENTS MAY BE SHOWN OUTSIDE OF THE WORK AREAS FOR CLARITY ONLY. ACTUAL INSTALLATION SHALL BE WITHIN THE WORK AREAS.
 - ALL STATIONING SHOWN IS SLOPE STATIONING.
 - SILT FENCE AND FILTER SOCK SHALL BE INSTALLED PARALLEL TO CONTOUR TO EXTENT PRACTICABLE IN ACCORDANCE WITH STANDARD DETAIL.
 - ACCESS ROADS HAVE BEEN GROUPED INTO FOUR CATEGORIES: 1) EXISTING ROADS MINOR IMPROVEMENTS, 2) EXISTING ROADS MAJOR IMPROVEMENTS AND 3) NEW ROADS. APPROPRIATE EROSION AND SEDIMENT CONTROLS WILL BE PROVIDED FOR 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.
 - THE CONSTRUCTION RIGHT-OF-WAY (ROW) WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS IN ACCORDANCE WITH SECTION V.4.5 FEDERAL ENERGY REGULATORY COMMISSION (FERC) UPLAND EROSION CONTROL, REVEGETATION, AND MAINTENANCE PLAN, SECTION V.4.5. IN ADDITION, WETLAND AND WATERBODY CROSSINGS WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS IN ACCORDANCE WITH NATIONWIDE PERMIT 12 (NWP) ISSUED BY THE U.S. CORPS OF ENGINEERS.

REVISIONS			
NO.	DATE	BY	DESCRIPTION



42" AP-1 PIPELINE
CONSTRUCTION ALIGNMENT STA 7222+00 TO 7264+00
AUGUSTA COUNTY, VIRGINIA

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

gai consultants

SOUTHPOINTE OFFICE
6000 TOWN CENTER BLVD.
SUITE 300 EAST
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

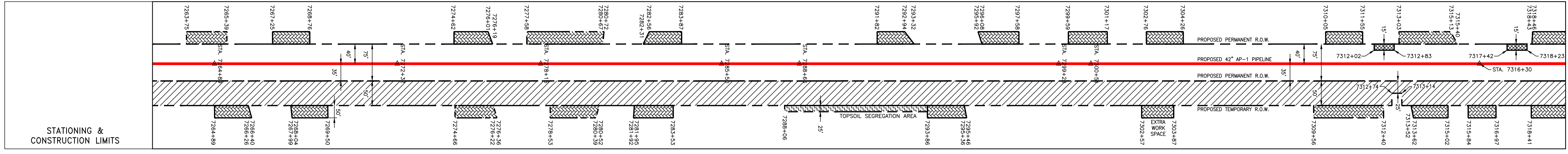
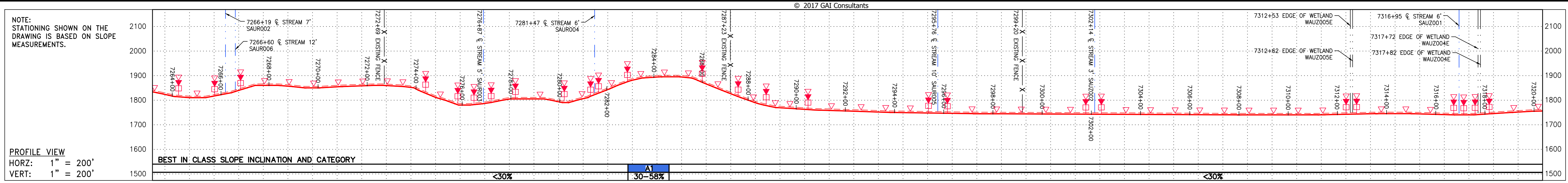
TASK NO.	SUB TASK NO.
005	00

GROUP ID DRAWING NO.
D E149

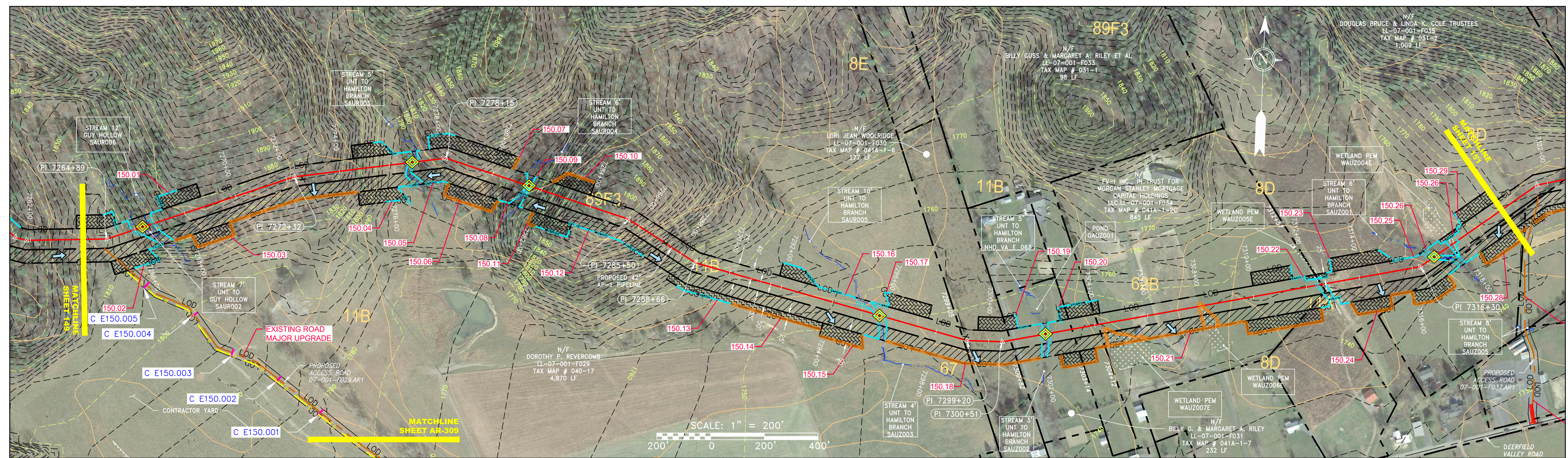
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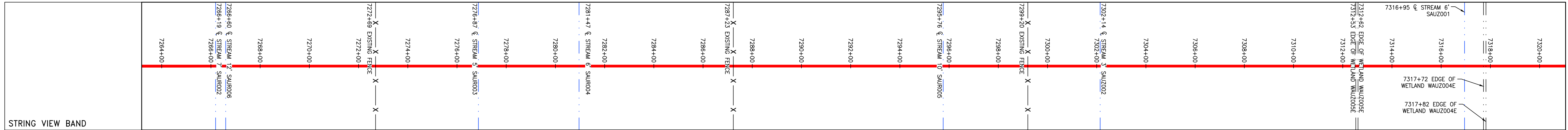
G:\CONSULTANTS\LOCAL\BUPROJ\ENERGY\2014\C140468.00 - DOMINION - SOUTHEAST PIPE CAD\MON FOREST ROUTE.DWG - PREVIOUS FERC FILING DWGS - ALIGNMENT SHEETS\C140468-00-000-E-E149-E153.DWG



STATIONING	PROPERTY OWNERSHIP
7264+00 - 7272+00	DOROTHY P. REVERCOMB LL-07-001-F029 TAX MAP # 040-17 4,870 LF
7272+00 - 7284+00	N/F LORI JEAN WOOLRIDGE LL-07-001-F030 TAX MAP # 041A-1-6 177 LF
7284+00 - 7292+00	N/F BILLY G. & MARGARET A. RILEY LL-07-001-F031 TAX MAP # 041A-1-7 232 LF
7292+00 - 7300+00	N/F BILLY GUSS & MARGARET A. RILEY ET AL LL-07-001-F033 TAX MAP # 031-1 98 LF
7300+00 - 7312+00	N/F FV-1 INC. IN TRUST FOR MORGAN STANLEY MORTGAGE CAPITAL HOLDINGS LLC LL-07-001-F034 TAX MAP # 041A-1-2C 845 LF
7312+00 - 7320+00	N/F DOUGLAS BRUCE & LINDA K. COLE TRUSTEES LL-07-001-F035 TAX MAP # 031-2 1,009 LF



NOT TO SCALE
PIPE SPECIFICATION



<p>LEGEND</p> <ul style="list-style-type: none"> — PROPERTY LINE X X FENCE — STREAM G EXISTING GAS PIPELINE OH OVERHEAD UTILITY LINES — ACCESS ROAD — PROPOSED GAS PIPELINE — PROPOSED PERMANENT EASEMENT — PROPOSED GAS PIPELINE (NO GROUND SURVEY) 	<ul style="list-style-type: none"> — STORM SEWER — UNDERGROUND ELECTRIC — WATER LINE — SANITARY SEWER — EDGE OF GRAVEL 	<ul style="list-style-type: none"> EXTRA WORK SPACE AREA OF NO DISTURBANCE WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY) TOPSOIL SEGREGATION AREA PROPOSED TEMPORARY R.O.W. UTILITY POLE 	<ul style="list-style-type: none"> ▲ PERMANENT WATERBAR/SLOPE BREAKER ▲ TEMPORARY WATERBAR/SLOPE BREAKER ▲ TRENCH BREAKER/PLUG ◆ STREAM CROSSING ◆ USFS STREAM CROSSING WITH ENHANCED CONTROLS ◆ SEEP ▲ SLOPE DIRECTION ▲ CONSTRUCTION ENTRANCE WITH DITCH ▲ CULVERT AS NEEDED ▲ CULVERT WATERBAR 	<ul style="list-style-type: none"> — LIMIT OF DISTURBANCE — BELTED SILT RETENTION FENCE (BSRF) — COMPOST FILTER SOCK — SEDIMENT BARRIER IDENTIFICATION — CULVERT IDENTIFICATION — ORANGE SAFETY FENCE — ROADSIDE DITCH — SOIL TYPE — TYPICAL BIC SLOPE CATEGORY SLOPE INCLINATION 	<p>NOTES:</p> <ol style="list-style-type: none"> COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY - UTM WITH NAD83 DATUM, ZONE 17, US SURVEY FOOT, CENTRAL MERIDIAN 81° W. CONTOURS AND TOPOGRAPHIC FEATURES WERE DERIVED FROM LIDAR DATA AND GPS SUB-METER GROUND SURVEY PERFORMED BY GAI CONSULTANTS, INC FROM 11-03-2014 THRU 11-07-2014. IMAGERY TAKEN FROM GOOGLE EARTH. THE PROPERTY LINES SHOWN ARE BASED ON GIS & TAX ASSESSMENT RECORDS (PROVIDED BY OTHERS). GAI CONSULTANTS MAKE NO GUARANTEE EITHER EXPRESSED OR IMPLIED AS TO THE ACCURACY OF THE RECORDS AS SHOWN ON THESE DRAWINGS. STREAM AND WETLAND DATA SHOWN ON THE DRAWINGS WAS PROVIDED BY ERM. EROSION AND SEDIMENTATION CONTROL ELEMENTS MAY BE SHOWN OUTSIDE OF THE WORK AREAS FOR CLARITY ONLY. ACTUAL INSTALLATION SHALL BE WITHIN THE WORK AREAS. BEST IN CLASS (BIC) STEEP SLOPE CATEGORY INFORMATION CAN BE FOUND IN THE APPENDIX OF THE STORMWATER POLLUTION PREVENTION PLAN. ALL STATIONING SHOWN IS SLOPE STATIONING. SILT FENCE AND FILTER SOCK SHALL BE INSTALLED PARALLEL TO CONTOUR TO EXTENT PRACTICABLE IN ACCORDANCE WITH STANDARD DETAIL. ACCESS ROADS HAVE BEEN GROUPED INTO FOUR CATEGORIES - 1) EXISTING ROADS NO IMPROVEMENTS, 2) EXISTING ROADS MINOR IMPROVEMENTS, 3) EXISTING ROADS MAJOR IMPROVEMENTS AND 4) NEW ROADS. APPROPRIATE EROSION AND SEDIMENT CONTROLS WILL BE PROVIDED FOR ROADS IN CATEGORIES 2, 3 AND 4. ROADS IN CATEGORIES 1 AND 2 HAVE ADEQUATE EXISTING DRAINAGE; DRAINAGE FEATURES WILL BE PROVIDED FOR ROADS IN CATEGORIES 3 AND 4. ERM IS SOLELY RESPONSIBLE FOR THE NATURE AND LOCATION OF THE DEPICTED BMP'S AS OF THE DATE SIGNED AND SEALED BASED ON THE SOURCE DATA PROVIDED AND AS DESCRIBED IN THE NOTES SECTION OF THE INDEX SHEET OF THIS PLAN SET. THE CONSTRUCTION RIGHT-OF-WAY (ROW) WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS IN ACCORDANCE WITH SECTION V.A. FEDERAL ENERGY REGULATORY COMMISSION (FERC) UPLAND EROSION CONTROL, REVEGETATION, AND MAINTENANCE PLAN, SECTION V.A.5. IN ADDITION, WETLAND AND WATERBODY CROSSINGS WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS IN ACCORDANCE WITH NATIONWIDE PERMIT 12 (NWP) ISSUED BY THE U.S. CORPS OF ENGINEERS.
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NO.	DATE	APPD.	DESCRIPTION

42" AP-1 PIPELINE
CONSTRUCTION ALIGNMENT STA 7264+00 TO 7320+00
AUGUSTA COUNTY, VIRGINIA

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

SCALE: AS SHOWN
DATE: 4/26/17
DRAWN: CJF
CHECKED: DLH
APPROVED: NET

gai consultants

SOUTHPOINTE OFFICE
6000 TOWN CENTER BLVD.
SUITE 300 EAST
CANONSBURG, PA 15317
724-873-3545

mbe
monaloh basin engineers

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

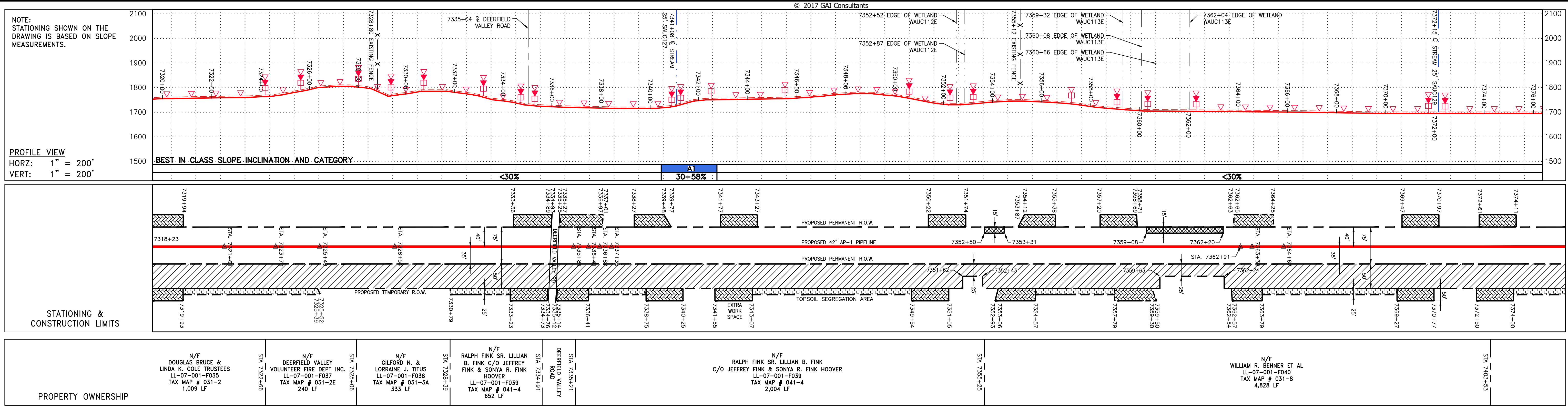
PROJECT NO./DASH NO.
140468

TASK NO.	SUB TASK NO.
005	00

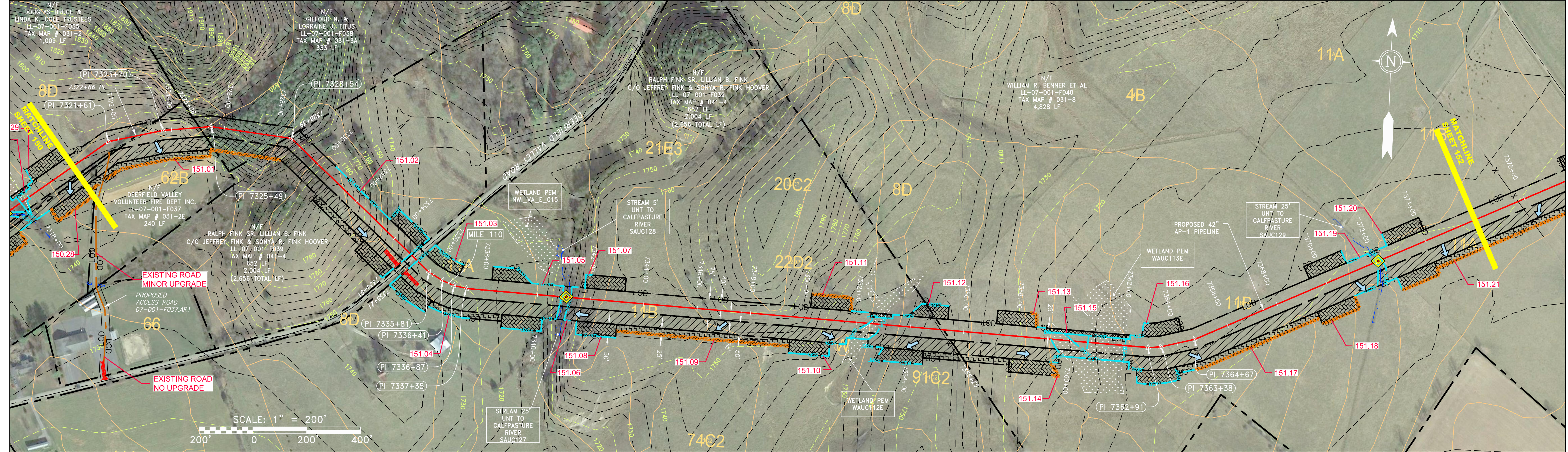
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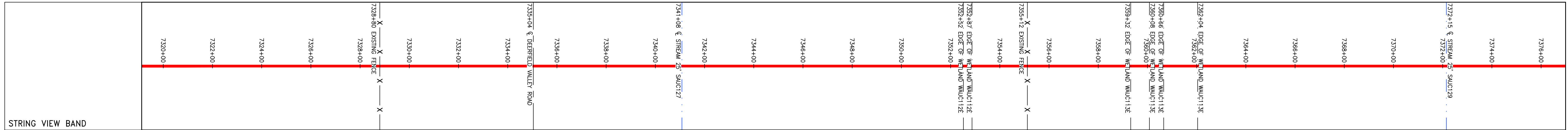
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PROPERTY OWNERSHIP
N/F DOUGLAS BRUCE & LINDA K. COLE TRUSTEES LL-07-001-F035 TAX MAP # 031-2 1,009 LF
N/F DEERFIELD VALLEY VOLUNTEER FIRE DEPT INC. LL-07-001-F037 TAX MAP # 031-2E 240 LF
N/F GILFORD N. & LORRAINE J. TITUS LL-07-001-F038 TAX MAP # 031-3A 333 LF
N/F RALPH FINK SR., LILLIAN B. FINK C/O JEFFREY FINK & SONYA R. FINK HOOVER LL-07-001-F039 TAX MAP # 041-4 652 LF
N/F RALPH FINK SR., LILLIAN B. FINK C/O JEFFREY FINK & SONYA R. FINK HOOVER LL-07-001-F039 TAX MAP # 041-4 2,004 LF
N/F WILLIAM R. BENNER ET AL LL-07-001-F040 TAX MAP # 031-8 4,828 LF



PIPE SPECIFICATION
NOT TO SCALE



<p>LEGEND</p> <ul style="list-style-type: none"> — PROPERTY LINE X — FENCE — STREAM — EXISTING GAS PIPELINE — OH — OVERHEAD UTILITY LINES — ACCESS ROAD — PROPOSED GAS PIPELINE — PROPOSED GAS PIPELINE (NO GROUND SURVEY) — STORM SEWER — UNDERGROUND ELECTRIC — WATER LINE — SAN — SANITARY SEWER — EDGE OF GRAVEL — PROPOSED PERMANENT EASEMENT — PROPOSED PERMANENT R.O.W. — PROPOSED TEMPORARY R.O.W. — UTILITY POLE — WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY) — EXTRA WORK SPACE — AREA OF NO DISTURBANCE — TOPSOIL SEGREGATION AREA — PROPOSED TEMPORARY R.O.W. 	<ul style="list-style-type: none"> ▲ PERMANENT WATERBAR/SLOPE BREAKER ▲ TEMPORARY WATERBAR/SLOPE BREAKER ▲ TRENCH BREAKER/PLUG ◆ STREAM CROSSING ◆ USFWS STREAM CROSSING WITH ENHANCED CONTROLS ◆ SEEP ◆ SLOPE DIRECTION ◆ CONSTRUCTION ENTRANCE WITH DITCH ◆ CULVERT AS NEEDED ◆ CULVERT WATERBAR — L.O.D. — BELTED SILT RETENTION FENCE (BSRF) — COMPOST FILTER SOCK — SEDIMENT BARRIER IDENTIFICATION — CULVERT IDENTIFICATION — ORANGE SAFETY FENCE — ROADSIDE DITCH — SOIL TYPE — TYPICAL BIC SLOPE CATEGORY SLOPE INCLINATION 	<p>NOTES:</p> <ol style="list-style-type: none"> COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY - UTM WITH NAD83 DATUM, ZONE 17, US SURVEY FOOT, CENTRAL MERIDIAN 81° 11-07-2014. 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. 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. IMAGERY TAKEN FROM GOOGLE EARTH. 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. ACCESS ROADS HAVE BEEN GROUPED INTO FOUR CATEGORIES: 1) EXISTING ROADS MINOR IMPROVEMENTS, 2) 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 BIMP AS OF THE DATE SIGNED AND SEALED BASED ON THE SOURCE DATA PROVIDED AND AS DESCRIBED IN THE NOTES SECTION OF THE INDEX SHEET OF THIS PLAN SET. THE CONSTRUCTION RIGHT-OF-WAY (ROW) WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS IN ACCORDANCE WITH SECTION V.4.5 FEDERAL ENERGY REGULATORY COMMISSION (FERC) UPLAND EROSION CONTROL, REVEGETATION, AND MAINTENANCE PLAN, SECTION V.4.5. IN ADDITION, WETLAND AND WATERBODY CROSSINGS WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS IN ACCORDANCE WITH NATIONWIDE PERMIT 12 (NWP) ISSUED BY THE U.S. CORPS OF ENGINEERS.
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REVISIONS	NO.	DATE	DWN.	CHKD.	APPROV.	DESCRIPTION

ERM

42" AP-1 PIPELINE
CONSTRUCTION ALIGNMENT STA 7320+00 TO 7376+00
AUGUSTA COUNTY, VIRGINIA

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

SCALE: AS SHOWN
DATE: 4/26/17
DRAWN: CJF
CHECKED: DLH
APPROVED: NET

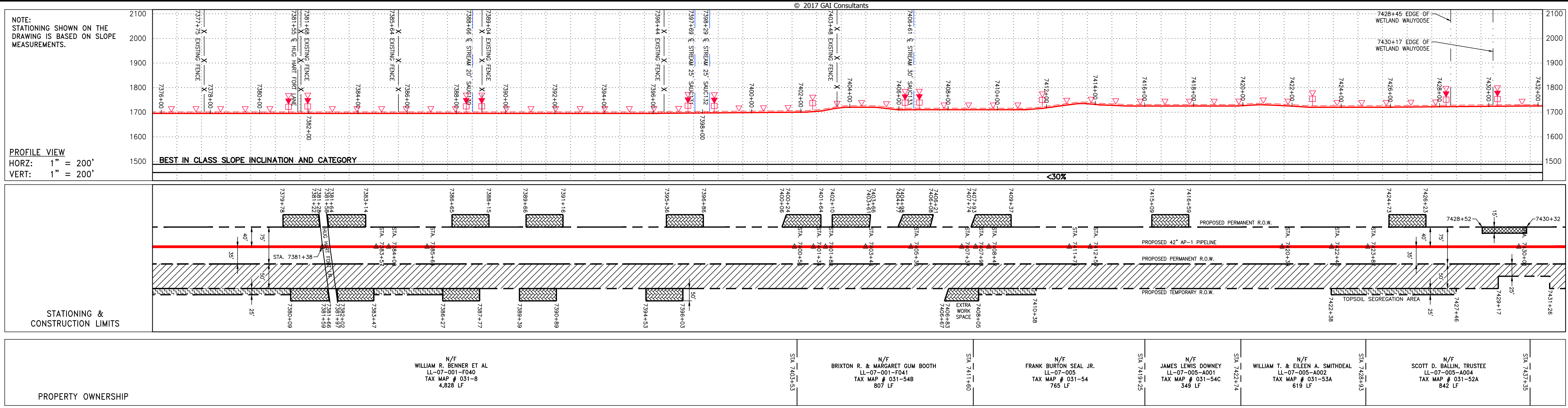
SOUTHPOINTE OFFICE
6000 TOWN CENTER BLVD.
SUITE 300 EAST
CANONSBURG, PA 15317
724-873-3545

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

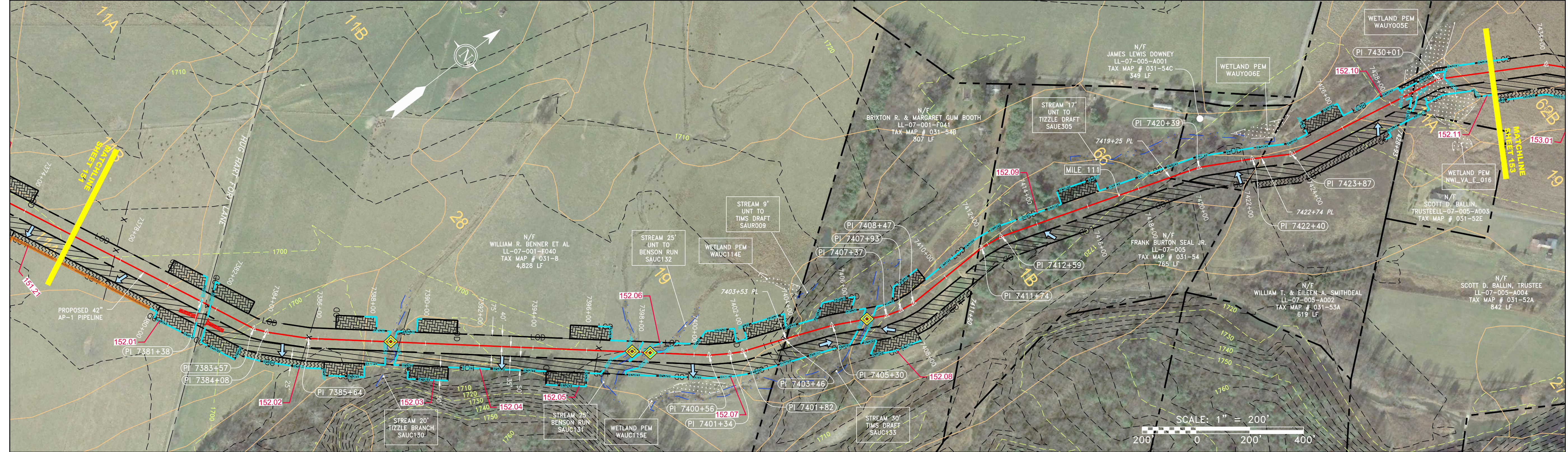
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TASK NO. SUB TASK NO. 005 00
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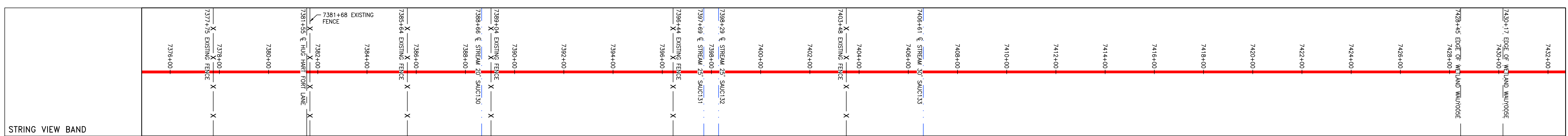
G:\CONSULTANTS\LOCAL\BUPROJ\ENERGY\2014\C140468.00 - DOMINION - SOUTHEAST PIPE CAD\MON FOREST\ROUTE\DWG - ALIGNMENT SHEETS\C140468-00-000-00-E-E149-E153.DWG



STATION	PROPERTY OWNERSHIP
7381+38	N/F WILLIAM R. BENNER ET AL LL-07-001-P040 TAX MAP # 031-8 4,828 LF
7403+48	N/F BRIXTON R. & MARGARET GUM BOOTH LL-07-001-P041 TAX MAP # 031-54B 807 LF
7411+74	N/F FRANK BURTON SEAL JR. LL-07-005 TAX MAP # 031-54 765 LF
7416+49	N/F JAMES LEWIS DOWNEY LL-07-005-A001 TAX MAP # 031-54C 349 LF
7422+40	N/F WILLIAM T. & EILEEN A. SMITHDEAL LL-07-005-A002 TAX MAP # 031-53A 619 LF
7426+00	N/F SCOTT D. BALLIN, TRUSTEE LL-07-005-A004 TAX MAP # 031-52A 842 LF



NOT TO SCALE
PIPE SPECIFICATION



LEGEND

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

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 BMPs AS OF THE DATE SIGNED AND SEALED BASED ON THE SOURCE DATA PROVIDED AND AS DESCRIBED IN THE NOTES SECTION OF THE INDEX SHEET OF THIS PLAN SET.
- THE CONSTRUCTION RIGHT-OF-WAY (ROW) WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS IN ACCORDANCE WITH SECTION V.A.5 FEDERAL ENERGY REGULATORY COMMISSION (FERC) UPLAND EROSION CONTROL, VEGETATION, AND MAINTENANCE PLAN, SECTION V.A.5. IN ADDITION, WETLAND AND WATERBODY CROSSINGS WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS IN ACCORDANCE WITH NATIONWIDE PERMIT 12 (NWP) ISSUED BY THE U.S. CORPS OF ENGINEERS.

NO.	DATE	BY	CHKD.	APPROV.	DESCRIPTION

42" AP-1 PIPELINE
CONSTRUCTION ALIGNMENT STA 7376+00 TO 7432+00
AUGUSTA COUNTY, VIRGINIA

ATLANTIC COAST PIPELINE, LLC
C/O DOMINION TRANSMISSION, INC.
925 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26630

SCALE: AS SHOWN
DATE: 4/26/17
DRAWN: CJF
CHECKED: DLH
APPROVED: NET

gai consultants

SOUTHPOINTE OFFICE
6000 TOWN CENTER BLVD.
SUITE 300 EAST
CANONSBURG, PA 15317
724-873-3545

mbe monaloh basin engineers

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

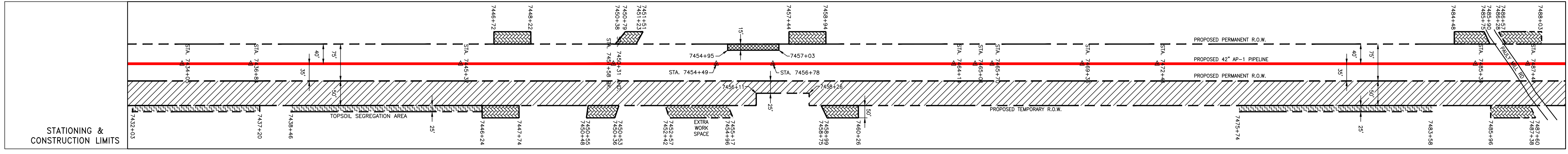
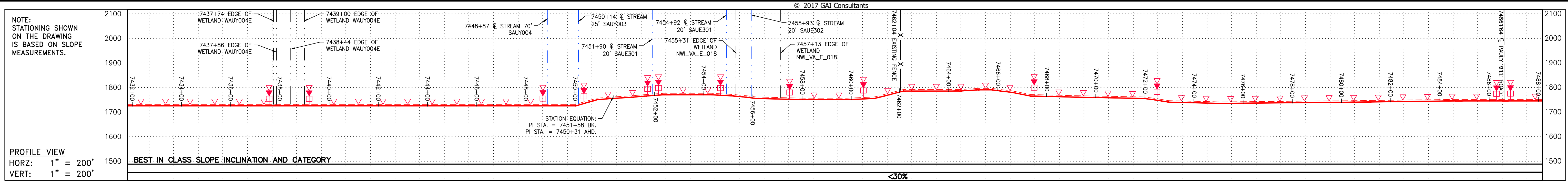
PROJECT NO./DASH NO.
140468

TASK NO.	SUB TASK NO.
005	00

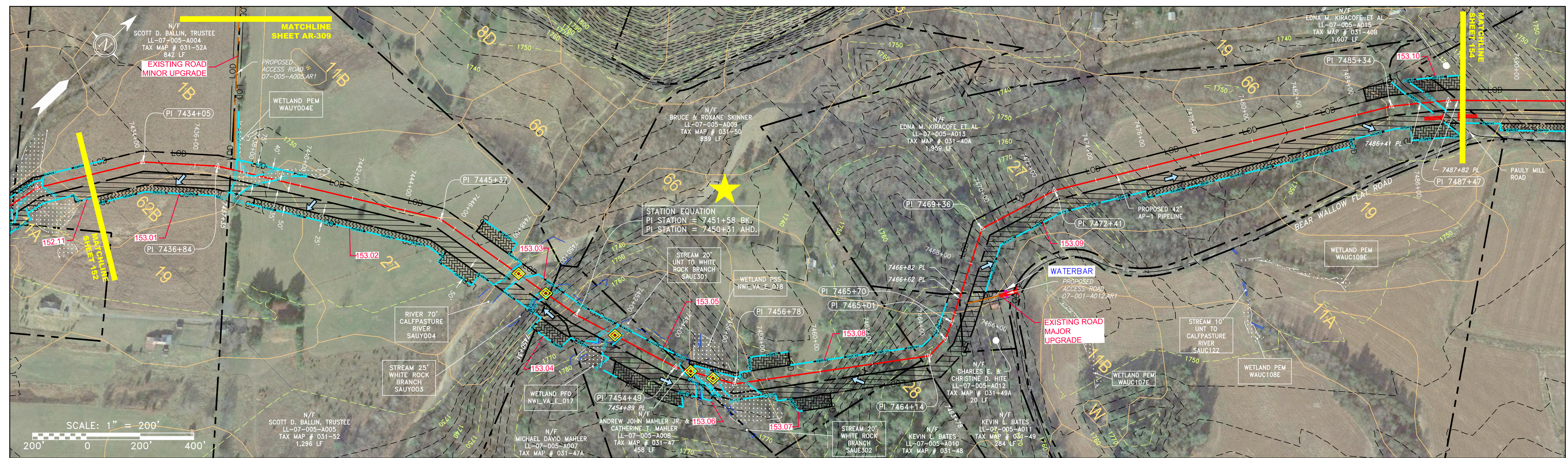
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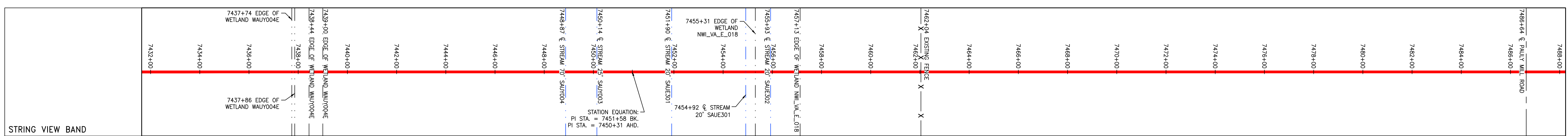
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PROPERTY OWNERSHIP	STATIONING
SCOTT D. BALLIN, TRUSTEE LL-07-005-A004 TAX MAP # 031-52A 842 LF	7432+00 to 7437+20
SCOTT D. BALLIN, TRUSTEE LL-07-005-A005 TAX MAP # 031-52 1,296 LF	7437+20 to 7444+00
ANDREW JOHN MAHLER JR. & CATHERINE T. MAHLER LL-07-005-A007 TAX MAP # 031-47 458 LF	7444+00 to 7454+99
BRUCE & ROXANE SKINNER LL-07-005-A009 TAX MAP # 031-50 889 LF	7454+99 to 7466+42
KEVIN L. BATES LL-07-005-A010 TAX MAP # 031-49 284 LF	7466+42 to 7472+41
CHARLES E. & CHRISTINE D. HITE LL-07-005-A012 TAX MAP # 031-49A 20 LF	7472+41 to 7487+82
EDNA M. KIRACOFF ET AL LL-07-005-A013 TAX MAP # 031-40A 1,959 LF	7487+82 to 7488+00



NOT TO SCALE
PIPE SPECIFICATION



<p>LEGEND</p> <ul style="list-style-type: none"> — PROPERTY LINE -X-X- FENCE — STREAM -C-C- EXISTING GAS PIPELINE -OH- OVERHEAD UTILITY LINES - - - ACCESS ROAD - - - PROPOSED GAS PIPELINE - - - PROPOSED GAS PIPELINE (NO GROUND SURVEY) -E- STORM SEWER -W- UNDERGROUND ELECTRIC -W- WATER LINE -SAN- SANITARY SEWER - - - EDGE OF GRAVEL - - - PROPOSED PERMANENT EASEMENT - - - PROPOSED GAS PIPELINE EXTRA WORK SPACE AREA OF NO DISTURBANCE WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY) TOPSOIL SEGREGATION AREA PROPOSED TEMPORARY R.O.W. UTILITY POLE PERMANENT WATERBAR/SLOPE BREAKER TEMPORARY WATERBAR/SLOPE BREAKER TRENCH BREAKER/PLUG STREAM CROSSING USFWS STREAM CROSSING WITH ENHANCED CONTROLS SEEP SLOPE DIRECTION CONSTRUCTION ENTRANCE WITH DITCH CULVERT AS NEEDED CULVERT WATERBAR LIMIT OF DISTURBANCE BELTED SILT RETENTION FENCE (BSRF) COMPOST FILTER SOCK SEDIMENT IDENTIFICATION CULVERT IDENTIFICATION ORANGE SAFETY FENCE ROADSIDE DITCH SOIL TYPE TYPICAL BIG SLOPE CATEGORY SLOPE INCLINATION 	<p>NOTES:</p> <ol style="list-style-type: none"> COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY - UTM WITH NAD83 DATUM, ZONE 17, US SURVEY FOOT, CENTRAL MERIDIAN 81° W. CONTOURS AND TOPOGRAPHIC FEATURES WERE DERIVED FROM LIDAR DATA AND GPS SUB-METER GROUND SURVEY PERFORMED BY GAI CONSULTANTS, INC FROM 11-03-2014 THRU 11-07-2014. IMAGERY TAKEN FROM GOOGLE EARTH. THE PROPERTY LINES SHOWN ARE BASED ON GIS & TAX ASSESSMENT RECORDS (PROVIDED BY OTHERS). GAI CONSULTANTS MAKE NO GUARANTEE EITHER EXPRESSED OR IMPLIED AS TO THE ACCURACY OF THE RECORDS AS SHOWN ON THESE DRAWINGS. STREAM AND WETLAND DATA SHOWN ON THE DRAWINGS WAS PROVIDED BY ERM. EROSION AND SEDIMENTATION CONTROL ELEMENTS MAY BE SHOWN OUTSIDE OF THE WORK AREAS FOR CLARITY ONLY. ACTUAL INSTALLATION SHALL BE WITHIN THE WORK AREAS. ALL STATIONING SHOWN IS SLOPE STATIONING. SILT FENCE AND FILTER SOCK SHALL BE INSTALLED PARALLEL TO CONTOUR TO EXTENT PRACTICABLE IN ACCORDANCE WITH STANDARD DETAIL. 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 BMP'S AS OF THE DATE SIGNED AND SEALED BASED ON THE SOURCE DATA PROVIDED AND AS DESCRIBED IN THE NOTES SECTION OF THE INDEX SHEET OF THIS PLAN SET. THE CONSTRUCTION RIGHT-OF-WAY (ROW) WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS IN ACCORDANCE WITH SECTION V.5 FEDERAL ENERGY REGULATORY COMMISSION (FERC) UPLAND EROSION CONTROL, REGULATION, AND MAINTENANCE PLAN, SECTION V.5. IN ADDITION, WETLAND AND WATERBODY CROSSINGS WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS IN ACCORDANCE WITH NATIONWIDE PERMIT 12 (NWP) ISSUED BY THE U.S. CORPS OF ENGINEERS.
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NO.	DATE	BY	CHKD.	APPROD.	DESCRIPTION

ERM

42" AP-1 PIPELINE
CONSTRUCTION ALIGNMENT STA 7432+00 TO 7488+00
AUGUSTA COUNTY, VIRGINIA

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

SCALE:	AS SHOWN
DATE:	4/26/17
DRAWN:	CJF
CHECKED:	DLH
APPROVED:	NET

gai consultants

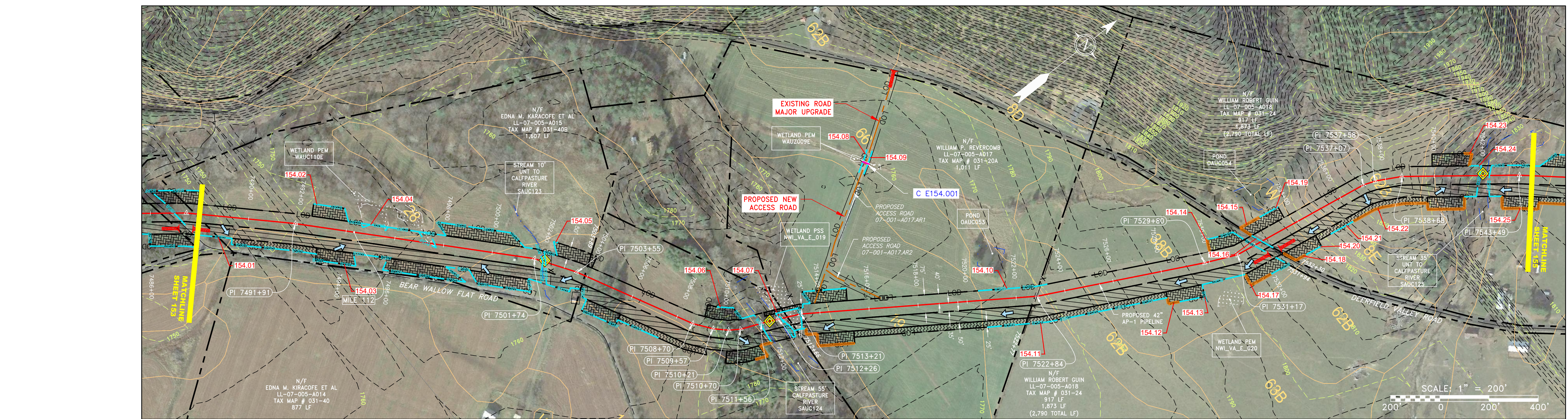
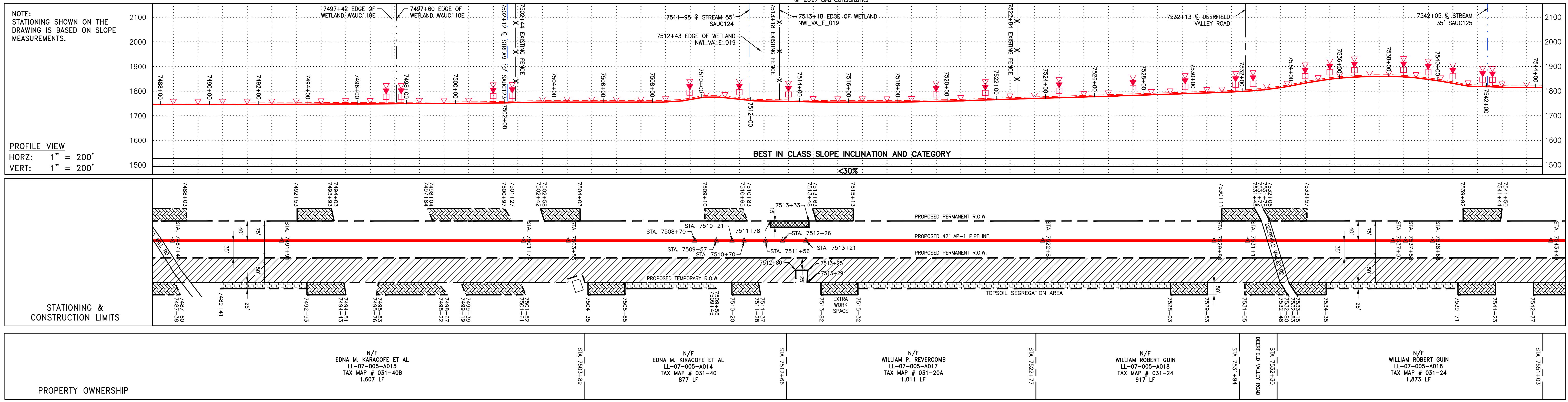
SOUTHPOINTE OFFICE
6000 TOWN CENTER BLVD.
SUITE 300 EAST
CANONSBURG, PA 15317
724-873-3545

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. E153
153 OF 344		5/19/2017 11:18 AM

G:\CONSULTANTS\LOCAL\BUPROJ\ENERGY\2014\C140468.00 - DOMINION - SOUTHEAST PIPE\CAD\MON FOREST ROUTE\DWG_ALIGNMENT SHEETS\C140468-00-00-E-E154-E155C.DWG



NOT TO SCALE
PIPE SPECIFICATION

PIPE LEGEND

A	42" x 0.600" WT-X70 DSAW, FBE
B	42" x 0.720" WT-X70 DSAW, FBE
C	42" x 0.864" WT-X70 DSAW, FBE
D	42" x 0.600" WT-X70 DSAW, 6" CC
E	42" x 0.720" WT-X70 DSAW, 5 1/2" CC
F	42" x 0.864" WT-X70 DSAW, 4 1/2" CC
G	42" x 0.864" WT-X70 DSAW, 40 MIL PC

STRING VIEW BAND

<p>LEGEND</p> <ul style="list-style-type: none"> PROPERTY LINE FENCE STREAM EXISTING GAS PIPELINE OVERHEAD UTILITY LINES ACCESS ROAD PROPOSED GAS PIPELINE 	<ul style="list-style-type: none"> STORM SEWER UNDERGROUND ELECTRIC WATER LINE SANITARY SEWER EDGE OF GRAVEL PROPOSED PERMANENT EASEMENT PROPOSED GAS PIPELINE (NO GROUND SURVEY) 	<ul style="list-style-type: none"> EXTRA WORK SPACE AREA OF NO DISTURBANCE WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY) TOPSOIL SEGREGATION AREA PROPOSED TEMPORARY R.O.W. UTILITY POLE 	<ul style="list-style-type: none"> PERMANENT WATERBAR/SLOPE BREAKER TEMPORARY WATERBAR/SLOPE BREAKER TRENCH BREAKER/PLUG STREAM CROSSING USFWS STREAM CROSSING WITH ENHANCED CONTROLS SEEP SLOPE DIRECTION CONSTRUCTION ENTRANCE WITH DITCH CULVERT AS NEEDED CULVERT WATERBAR 	<ul style="list-style-type: none"> LIMIT OF DISTURBANCE BELTED SILT RETENTION FENCE (BSRF) COMPOST FILTER SOCK SEDIMENT BARRIER IDENTIFICATION CULVERT IDENTIFICATION ORANGE SAFETY FENCE ROADSIDE DITCH SOIL TYPE TYPICAL BIC SLOPE CATEGORY SLOPE INCLINATION 	<p>NOTES:</p> <ol style="list-style-type: none"> COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY - UTM WITH NAD83 DATUM, ZONE 17, US SURVEY FOOT, CENTRAL MERIDIAN 81° W, 11407204. CONTOURS AND TOPOGRAPHIC FEATURES WERE DERIVED FROM LIDAR DATA AND GPS SUB-METER GROUND SURVEY PERFORMED BY GAI CONSULTANTS, INC FROM 11-03-2014 THRU 11-07-2014. IMAGERY TAKEN FROM GOOGLE EARTH. THE PROPERTY LINES SHOWN ARE BASED ON GIS & TAX ASSESSMENT RECORDS (PROVIDED BY OTHERS). GAI CONSULTANTS MAKE NO GUARANTEE EITHER EXPRESSED OR IMPLIED AS TO THE ACCURACY OF THE RECORDS AS SHOWN ON THESE DRAWINGS. STREAM AND WETLAND DATA SHOWN ON THE DRAWINGS WAS PROVIDED BY ERM. EROSION AND SEDIMENTATION CONTROL ELEMENTS MAY BE SHOWN OUTSIDE OF THE WORK AREAS FOR CLARITY ONLY. ACTUAL INSTALLATION SHALL BE WITHIN THE WORK AREAS. ALL STATIONING SHOWN IS SLOPE STATIONING. SILT FENCE AND FILTER SOCK SHALL BE INSTALLED PARALLEL TO CONTOUR TO EXTENT PRACTICABLE IN ACCORDANCE WITH STANDARD DETAIL. ACCESS ROADS HAVE BEEN GROUPED INTO FOUR CATEGORIES - 1) EXISTING ROADS MINOR IMPROVEMENTS, 2) EXISTING ROADS MAJOR IMPROVEMENTS AND 3) NEW ROADS. APPROPRIATE EROSION AND SEDIMENT CONTROLS WILL BE PROVIDED FOR ROADS IN CATEGORIES 2, 3 AND 4. ROADS IN CATEGORIES 1 AND 2 HAVE ADEQUATE EXISTING DRAINAGE/DRAINAGE FEATURES WILL BE PROVIDED FOR ROADS IN CATEGORIES 3 AND 4. ERM IS SOLELY RESPONSIBLE FOR THE NATURE AND LOCATION OF THE DEPICTED BMPs AS OF THE DATE SIGNED AND SEALED BASED ON THE SOURCE DATA PROVIDED AND AS DESCRIBED IN THE NOTES SECTION OF THE INDEX SHEET OF THIS PLAN SET. THE CONSTRUCTION RIGHT-OF-WAY (ROW) WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS IN ACCORDANCE WITH SECTION V.A.5. FEDERAL ENERGY REGULATORY COMMISSION (FERC) UPLAND EROSION CONTROL, REVEGETATION, AND MAINTENANCE PLAN, SECTION V.A.5. IN ADDITION, WETLAND AND WATERBODY CROSSINGS WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS IN ACCORDANCE WITH NATIONWIDE PERMIT 12 (NWP) ISSUED BY THE U.S. CORPS OF ENGINEERS.
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NO.	DATE	BY	CHKD.	APPROV.	DESCRIPTION

42" AP-1 PIPELINE
CONSTRUCTION ALIGNMENT STA 7488+00 TO 7544+00
AUGUSTA COUNTY, VIRGINIA

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

SCALE: AS SHOWN
DATE: 4/26/17
DRAWN: CJF
CHECKED: DLH
APPROVED: NET

gai consultants

SOUTHPOINTE OFFICE
6000 TOWN CENTER BLVD.
SUITE 300 EAST
CANONSBURG, PA 15317
724-873-3545

mbe monaloh basin engineers

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

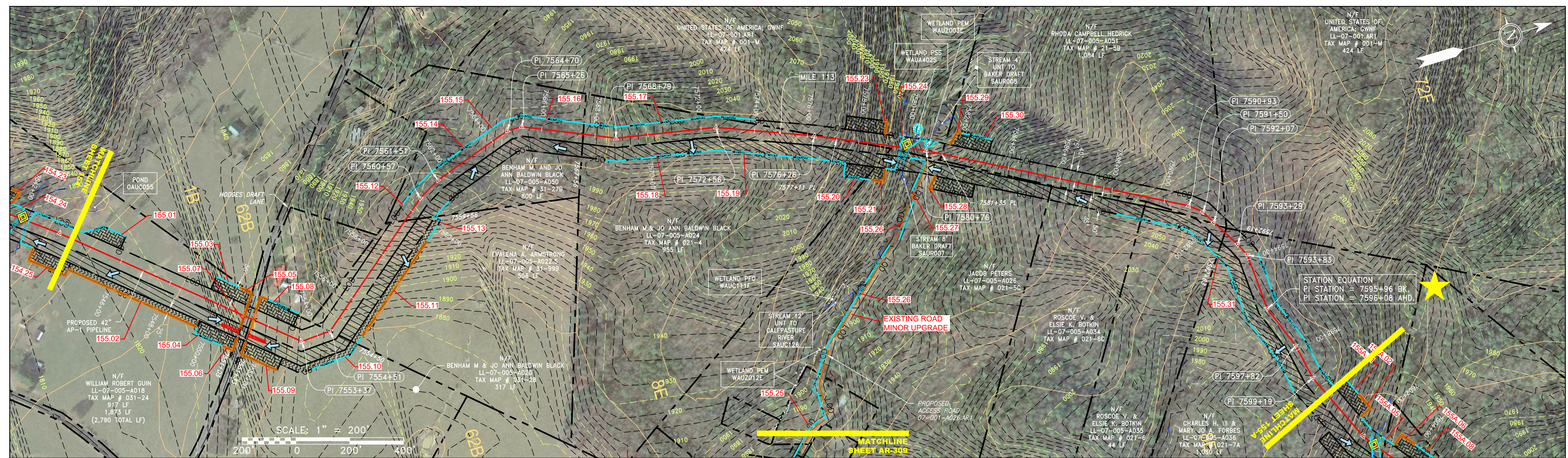
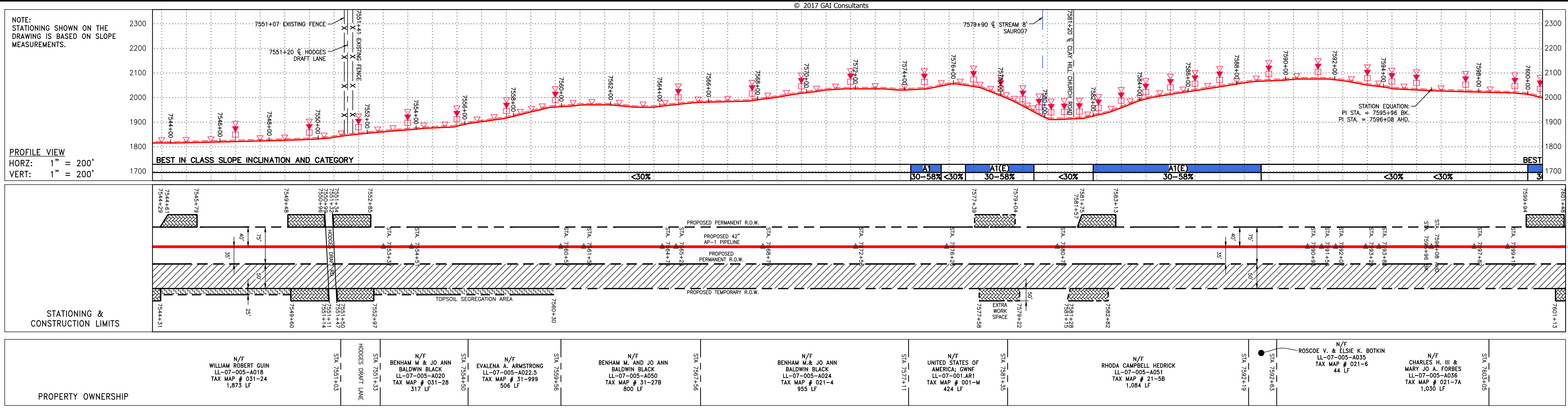
PROJECT NO./DASH NO.
140468

TASK NO. SUB TASK NO.
005 00

GROUP ID DRAWING NO.
D E154

154 OF 344

G:\CONSULTANTS\LOCAL\BUPROJ\ENERGY\2014\C140468.00 - DOMINION - SOUTHEAST PIPE CAD\MON FOREST REROUTE.DWG - PREVIOUS FERC FILING DWGS - ALIGNMENT SHEETS\C140468-00-000-E-E154-E155C.DWG



NOT TO SCALE

PIPE SPECIFICATION

PIPE LEGEND	STRING VIEW BAND
A 42" x 0.600" WT-X70 DSAW, FBE	7544+00
B 42" x 0.720" WT-X70 DSAW, FBE	7546+00
C 42" x 0.864" WT-X70 DSAW, FBE	7548+00
D 42" x 0.600" WT-X70 DSAW, 6" CC	7550+00
E 42" x 0.720" WT-X70 DSAW, 5 1/2" CC	7552+00
F 42" x 0.864" WT-X70 DSAW, 4 1/2" CC	7554+00
G 42" x 0.864" WT-X70 DSAW, 40 MIL PC	7556+00

LEGEND

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

NOTES:

- 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.
- ACCESS ROADS HAVE BEEN GROUPED INTO FOUR CATEGORIES - 1) EXISTING ROADS WITH MINOR IMPROVEMENTS, 2) EXISTING ROADS WITH MAJOR IMPROVEMENTS AND 4) NEW ROADS. APPROPRIATE EROSION AND SEDIMENTATION CONTROLS WILL BE PROVIDED FOR ROADS IN CATEGORIES 1 AND 2.
- EROSION CONTROL MATTING SHALL BE PLACED IN AREAS OF 30% SLOPE AND GREATER, WHICH ARE INDICATED ON THE BEST IN CLASS SLOPE BAND.
- BEST IN CLASS (BIC) STEEP SLOPE CATEGORY INFORMATION CAN BE FOUND IN THE APPENDIX OF THE STORMWATER POLLUTION PREVENTION PLAN.
- APPROPRIATE 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 BMP'S AS OF THE DATE SIGNED AND SEALED BASED ON THE SOURCE DATA PROVIDED AND AS DESCRIBED IN THE NOTES SECTION OF THE INDEX SHEET OF THIS PLAN SET.
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REVISIONS

NO.	DATE	BY	CHKD.	APPD.	DESCRIPTION

ERM

42" AP-1 PIPELINE
 CONSTRUCTION ALIGNMENT STA 7544+00 TO 7600+00
 AUGUSTA COUNTY, VIRGINIA
ATLANTIC COAST PIPELINE, LLC
 C/O DOMINION TRANSMISSION, INC.
 925 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330

SCALE: AS SHOWN
 DATE: 4/26/17
 DRAWN: CJF
 CHECKED: DLH
 APPROVED: NET

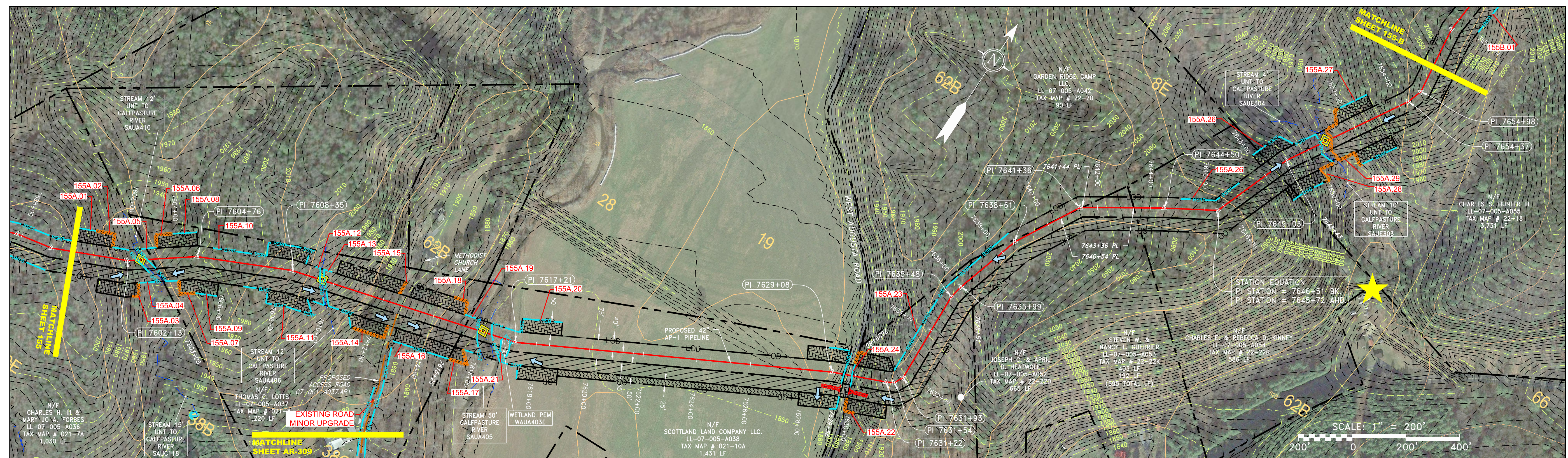
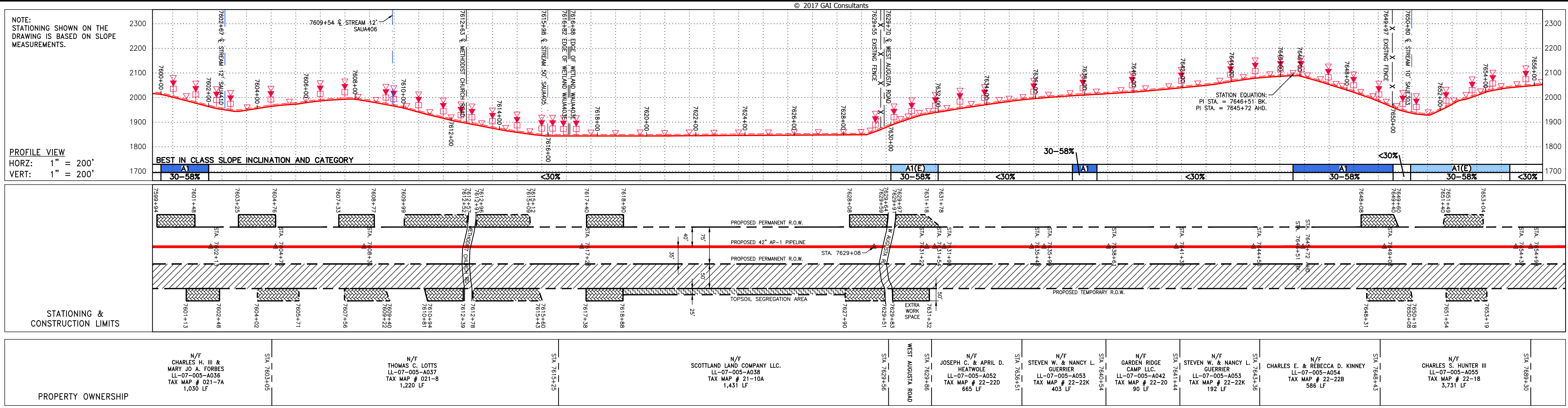
SOUTHPOINTE OFFICE
 6000 TOWN CENTER BLVD.
 SUITE 300 EAST
 CANONSBURG, PA 15317
 724-873-3545

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 E155
155 OF 344

5/19/2017 11:22 AM

\\GAICONSULTANTS\LOCAL\BUPROJ\ENERGY\2014\CAD\MON FOREST REROUTE\DWG_ALIGNMENT SHEETS\C140468-00-000-00-E-E154-E155C.DWG



NOT TO SCALE

PIPE SPECIFICATION

PIPE LEGEND

A 42" x 0.600" WT-X70 DSAW, FBE	7602+67	7609+54	7612+63	7615+86	7618+00	7620+00	7622+00	7624+00	7626+00	7628+00	7630+00	7632+00	7634+00	7636+00	7638+00	7640+00	7642+00	7644+00	7646+00	7648+00	7650+00	7652+00	7654+00	7656+00
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STRING VIEW BAND

LEGEND

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

NOTES:

- COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY - UTM WITH NAD83 DATUM, ZONE 17, US SURVEY FOOT, CENTRAL MERIDIAN 81° W, 114°07'20.14".
- 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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- 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.
- 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 WITH MINOR IMPROVEMENTS, 2) EXISTING ROADS WITH MAJOR IMPROVEMENTS AND 3) NEW ROADS. APPROPRIATE EROSION AND SEDIMENT CONTROLS WILL BE PROVIDED FOR ROADS IN CATEGORIES 2, 3 AND 4. ROADS IN CATEGORIES 1 AND 2 WILL BE PROVIDED WITH 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 BMP'S AS OF THE DATE SIGNED AND SEALED BASED ON THE SOURCE DATA PROVIDED AND AS DESCRIBED IN THE NOTES SECTION OF THE INDEX SHEET OF THIS PLAN SET.
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REVISIONS

NO.	DATE	BY	CHKD.	APPD.	DESCRIPTION
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ERM

CONSTRUCTION ALIGNMENT STA 7600+00 TO 7656+00
 AUGUSTA COUNTY, VIRGINIA

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

SCALE: AS SHOWN
DATE: 4/26/17
DRAWN: CJF
CHECKED: DLH
APPROVED: NET

gai consultants

SOUTHPOINTE OFFICE
 6000 TOWN CENTER BLVD.
 SUITE 300 EAST
 CANONSBURG, PA 15317
 724-873-3545

mbe monaloh basin engineers

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

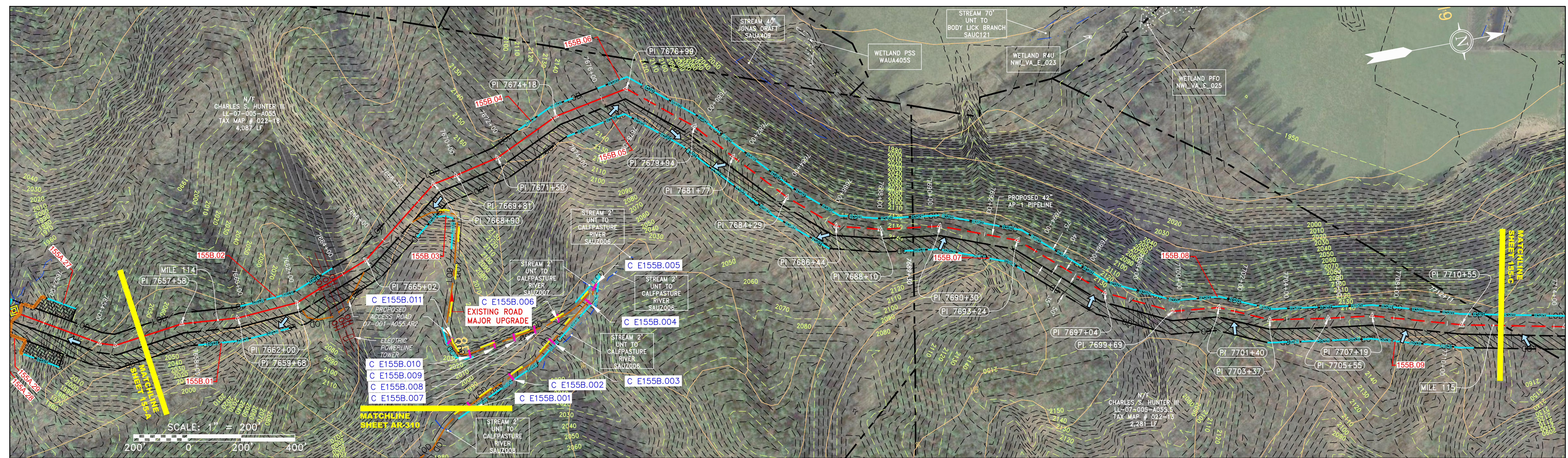
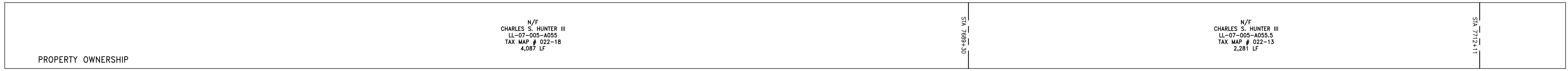
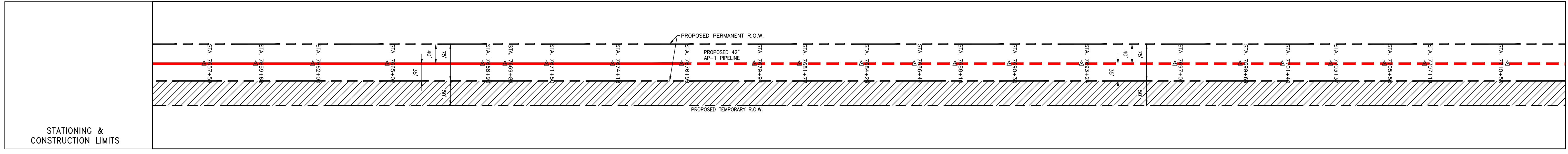
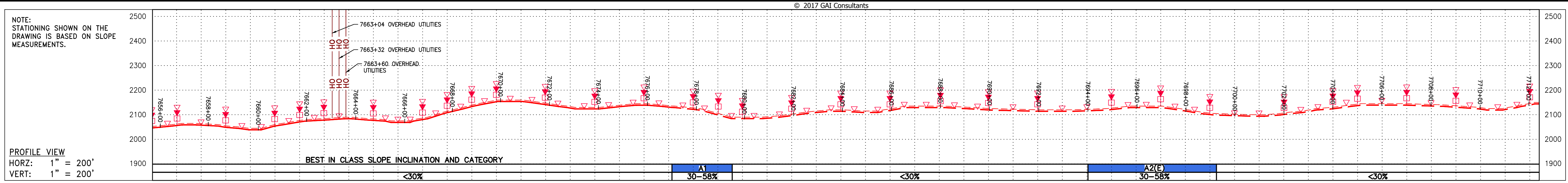
PROJECT NO./DASH NO. 140468

TASK NO. 005	SUB TASK NO. 00
GROUP ID D	DRAWING NO. E155-A

155-A OF 344

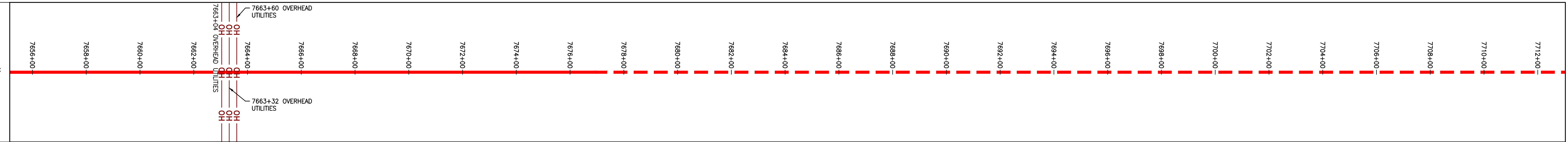
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\\GAI\CONSULTANTS\LOCAL\BUPROJ\ENERGY\2014\CAD\MON FOREST ROUTE\DWG\..._ALIGNMENT SHEETS\C140468-00-000-00-E-E154-E155C.DWG



NOT TO SCALE
PIPE SPECIFICATION

PIPE LEGEND table with columns for pipe type (A-F), size, material, and notes.



LEGEND section with symbols for property lines, fences, streams, utilities, wetlands, and erosion control measures. Includes a 'NOTES' section with 13 numbered items.

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

Professional seal for Daniel L. Goldstein, License No. 04746, and ERM logo.

42" AP-1 PIPELINE
CONSTRUCTION ALIGNMENT STA 7656+00 TO 7712+00
AUGUSTA COUNTY, VIRGINIA

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

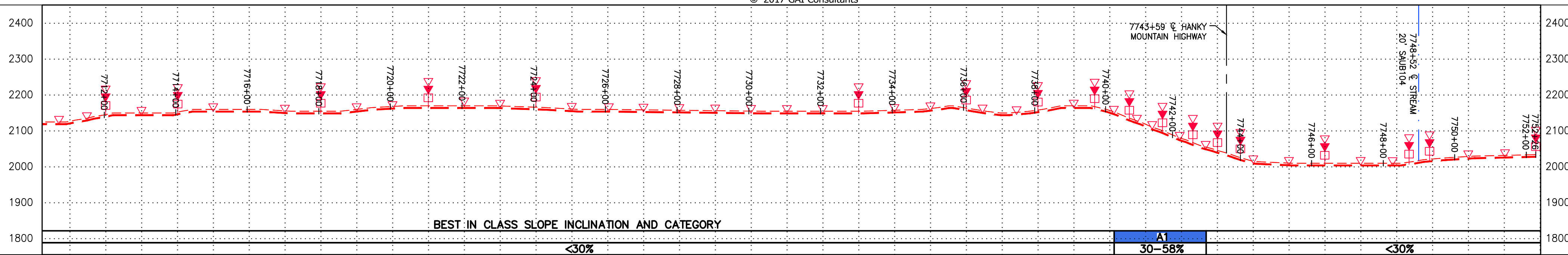
Logo for mbe monaloh basin engineers and address: 300 BUSINESS CENTER DRIVE, PITTSBURGH, PA 15205.

PROJECT NO./DASH NO. 140468
TASK NO. 005 SUB TASK NO. 00
GROUP ID D DRAWING NO. E155-B
155-B OF 344

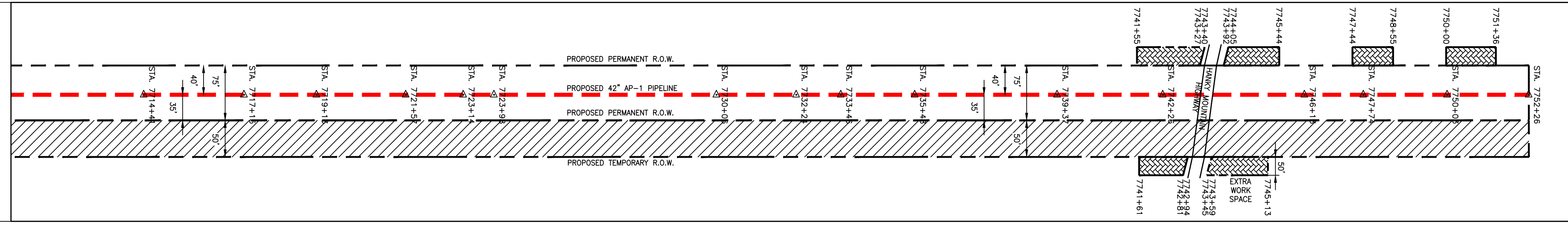
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NOTE:
STATIONING SHOWN ON THE
DRAWING IS BASED ON SLOPE
MEASUREMENTS.

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



STATIONING &
CONSTRUCTION LIMITS



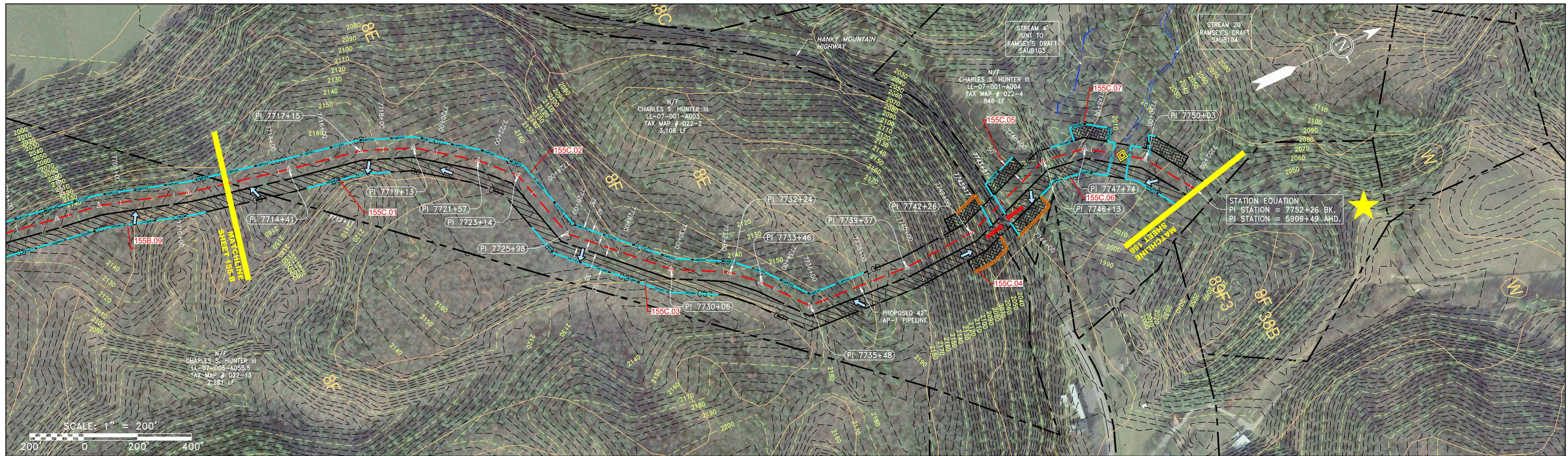
PROPERTY OWNERSHIP

N/F
CHARLES S. HUNTER III
LL-07-001-A055.5
TAX MAP # 022-13
2,281 LF

N/F
CHARLES S. HUNTER III
LL-07-001-A003
TAX MAP # 022-2
3,106 LF

HANKY
MOUNTAIN
HIGHWAY
S/A 7743+17

N/F
CHARLES S. HUNTER III
LL-07-001-A004
TAX MAP # 022-4
846 LF



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

NOT TO SCALE
PIPE SPECIFICATION

PIPE LEGEND

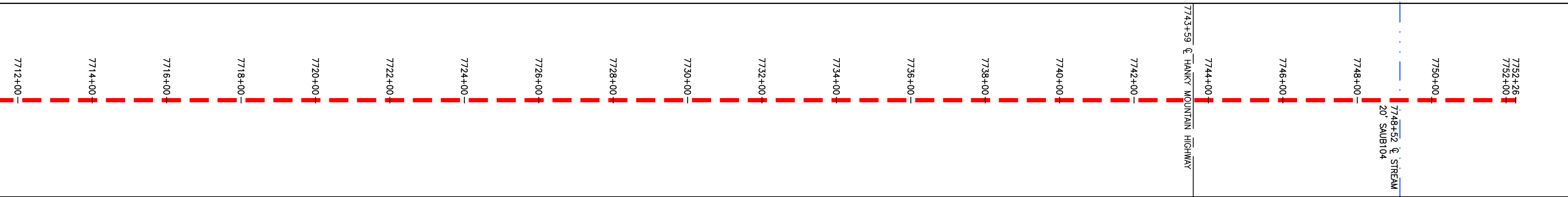
A	42" x 0.600" WT-X70 DSAW, FBE
B	42" x 0.720" WT-X70 DSAW, FBE
C	42" x 0.864" WT-X70 DSAW, FBE
D	42" x 0.600" WT-X70 DSAW, 6" CC
E	42" x 0.720" WT-X70 DSAW, 5 1/2" CC
F	42" x 0.864" WT-X70 DSAW, 4 1/2" CC
G	42" x 0.864" WT-X70 DSAW, 40 MIL PC

LEGEND

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

LEGEND

---	PERMANENT WATERBAR/SLOPE BREAKER	---	LIMIT OF DISTURBANCE
---	TEMPORARY WATERBAR/SLOPE BREAKER	---	BELTED SILT RETENTION FENCE (BSRF)
---	TRENCH BREAKER/PLUG	---	COMPOST FILTER SOCK
---	STREAM CROSSING	---	SEDIMENT IDENTIFICATION
---	USFWS STREAM CROSSING WITH ENHANCED CONTROLS	---	CULTURE IDENTIFICATION
---	SEEP	---	ORANGE SAFETY FENCE
---	SLOPE DIRECTION	---	ROADSIDE DITCH
---	CONSTRUCTION ENTRANCE WITH DITCH	---	SOIL TYPE
---	CULVERT AS NEEDED	---	TYPICAL BIC SLOPE CATEGORY
---	CULVERT WATERBAR	---	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 MINOR IMPROVEMENTS, 2) EXISTING ROADS MAJOR IMPROVEMENTS AND 4) NEW ROADS. APPROPRIATE EROSION AND SEDIMENT CONTROLS WILL BE PROVIDED FOR ROADS IN CATEGORIES 2, 3 AND 4. ROADS IN CATEGORIES 1 AND 2 HAVE ADEQUATE EXISTING DRAINAGE; DRAINAGE FEATURES WILL BE PROVIDED FOR ROADS IN CATEGORIES 3 AND 4.
- ERM IS SOLELY RESPONSIBLE FOR THE NATURE AND LOCATION OF THE DEPICTED BMPs AS OF THE DATE SIGNED AND SEALED BASED ON THE SOURCE DATA PROVIDED AND AS DESCRIBED IN THE NOTES SECTION OF THE INDEX SHEET OF THIS PLAN SET.
- THE CONSTRUCTION RIGHT-OF-WAY (ROW) WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS IN ACCORDANCE WITH SECTION V.A.5 FEDERAL ENERGY REGULATORY COMMISSION (FERC) UPLAND EROSION CONTROL, REVEGETATION, AND MAINTENANCE PLAN, SECTION V.A.5. IN ADDITION, WETLAND AND WATERBODY CROSSINGS WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS IN ACCORDANCE WITH NATIONWIDE PERMIT 12 (NWP) ISSUED BY THE U.S. CORPS OF ENGINEERS.

REVISIONS	
NO.	DATE

42" AP-1 PIPELINE
CONSTRUCTION ALIGNMENT STA 7712+00 TO 7752+26
AUGUSTA COUNTY, VIRGINIA

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

SCALE: AS SHOWN
DATE: 4/26/17
DRAWN: CJF
CHECKED: DLH
APPROVED: NET

SOUTHPOINT OFFICE
6000 TOWN CENTER BLVD.
SUITE 300 EAST
CANONSBURG, PA 15317
724-873-3545

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

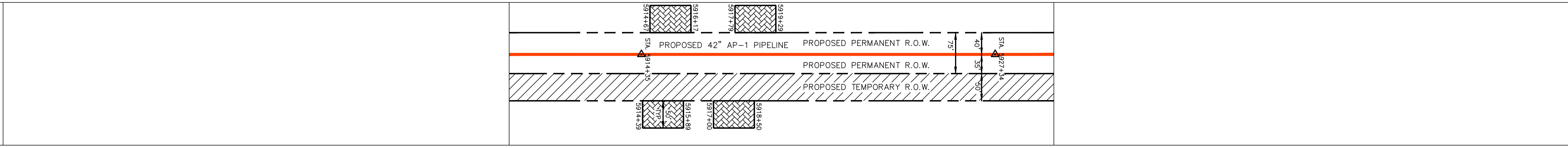
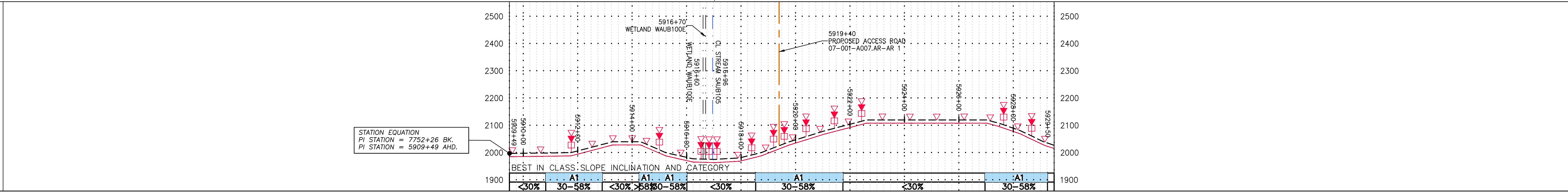
PROJECT NO./DASH NO. 140468	
TASK NO. 005	SUB TASK NO. 00
GROUP ID D	DRAWING NO. E155-C
155-C OF 344	

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

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

STATIONING &
CONSTRUCTION LIMITS

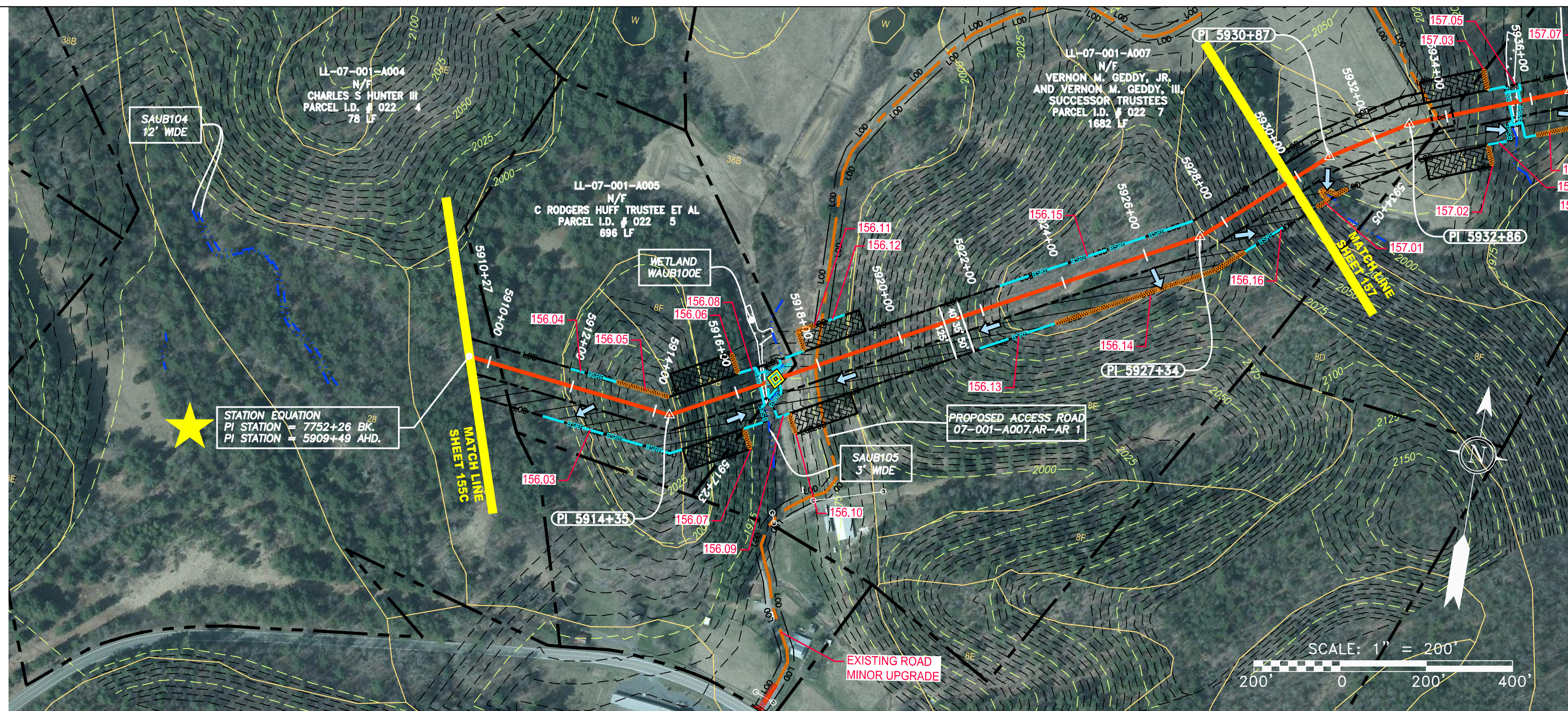
PROPERTY OWNERSHIP



LL-07-001-A004
N/F
CHARLES S HUNTER III
PARCEL I.D. # 022 4
78 LF

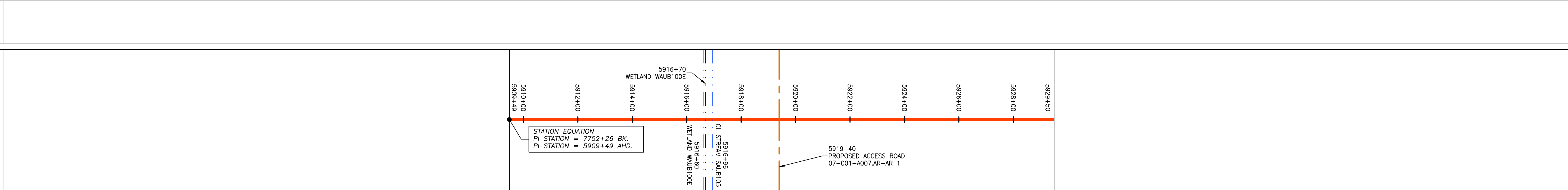
LL-07-001-A005
N/F
C RODGERS HUFF TRUSTEE ET AL
PARCEL I.D. # 022 5
696 LF

LL-07-001-A007
N/F
VERNON M. GEDDY, JR.
AND VERNON M. GEDDY, III,
SUCCESSOR TRUSTEES
PARCEL I.D. # 022 7
1682 LF



PIPE SPECIFICATION

STRING VIEW BAND



LEGEND

	PROPERTY LINE		STORM SEWER
	FENCE		UNDERGROUND ELECTRIC
	STREAM		WATER LINE
	EXISTING GAS PIPELINE		SANITARY SEWER
	OVERHEAD UTILITY LINES		EDGE OF GRAVEL
	ACCESS ROAD		PROPOSED PERMANENT EASEMENT
	PROPOSED GAS PIPELINE		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).

	PERMANENT WATERBAR/SLOPE BREAKER		LIMIT OF DISTURBANCE
	TEMPORARY WATERBAR/SLOPE BREAKER		BELTED SILT RETENTION FENCE (BSRF)
	STREAM CROSSING		USFWS STREAM CROSSING WITH ENHANCED CONTROLS
	STREAM CROSSING WITH ENHANCED CONTROLS		SLOPEWALL
	SLOPEWALL		CULVERT DIRECTION
	CONSTRUCTION ENTRANCE WITH DITCH		CULVERT AS NEEDED
	CULVERT WATERBAR		CULVERT WATERBAR

	111.03		A1(-)
	111.00		C 111.00
	ORANGE SAFETY FENCE		ROADSIDE DITCH
	SOIL TYPE		TYPICAL BIG SLOPE CATEGORY
	TYPICAL BIG SLOPE CATEGORY		TYPICAL BIG SLOPE CATEGORY

NOTES:

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NO.	DATE	BY	CHKD.	APPD.	DESCRIPTION

ERM
 Daniel R. Goldstein
 Lic. No. 047436

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

42" AP-1 PIPELINE
 CONSTRUCTION ALIGNMENT STA 5905+96 TO 5929+50
 AUGUSTA COUNTY, VIRGINIA

SCALE:	AS SHOWN
DATE:	3/24/17
DRAWN:	GPT
CHECKED:	DLH
APPROVED:	NET

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

PROJECT NO./DASH NO.	140468	
TASK NO.	005	00
GROUP ID	D	E156
156	OF	344