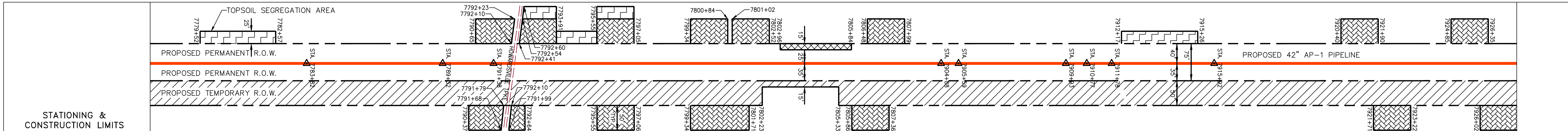
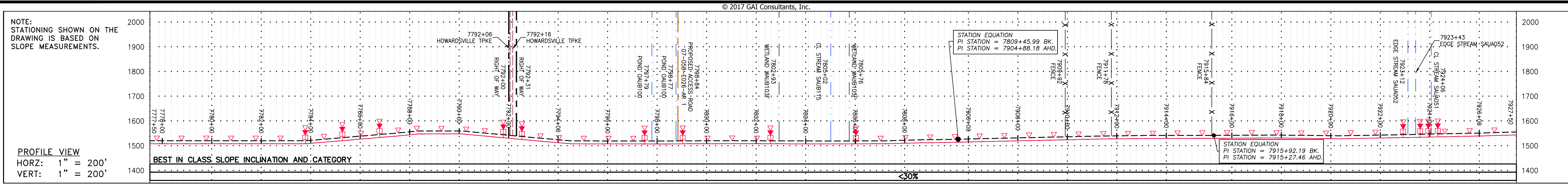
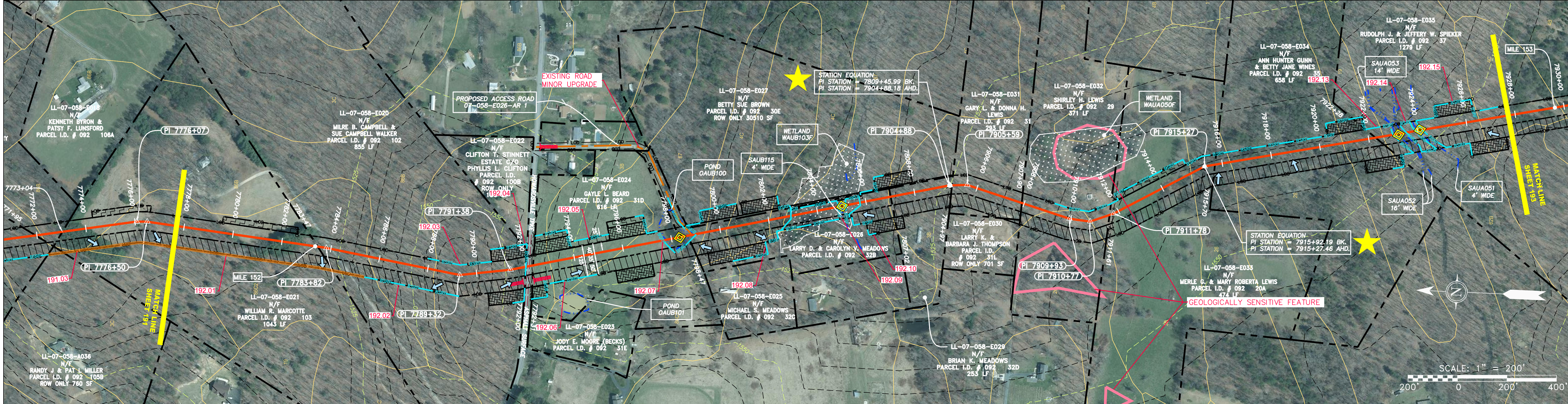


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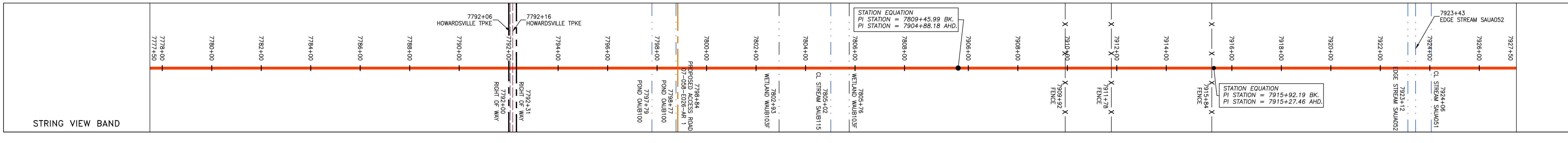


PROPERTY OWNERSHIP	PROPERTY OWNERSHIP	PROPERTY OWNERSHIP	PROPERTY OWNERSHIP	PROPERTY OWNERSHIP	PROPERTY OWNERSHIP	PROPERTY OWNERSHIP	PROPERTY OWNERSHIP	PROPERTY OWNERSHIP	PROPERTY OWNERSHIP		
LL-07-058-E021 N/F WILLIAM R. MARCOTTE PARCEL I.D. # 092 103 1043 LF	LL-07-058-E020 N/F MILRE B. CAMPBELL & SUE CAMPBELL WALKER PARCEL I.D. # 092 102 853 LF	LL-07-058-E022 N/F CLIFTON T. STINNETT ESTATE C/O PHYLIS L. CLIFTON PARCEL I.D. # 092 100B ROW ONLY 156 SF	LL-07-058-E024 N/F GAYLE L. BEARD PARCEL I.D. # 092 31D 616 LF	LL-07-058-E027 N/F BETTY SUE BROWN PARCEL I.D. # 092 30E ROW ONLY 30510 SF	LL-07-058-E026 N/F LARRY D. & CAROLYN V. MEADOWS PARCEL I.D. # 092 32B 855 LF	LL-07-058-E029 N/F BRIAN K. MEADOWS PARCEL I.D. # 092 32D 253 LF	LL-07-058-E031 N/F GARY L. & DONNA H. LEWIS PARCEL I.D. # 092 29 293 LF	LL-07-058-E032 N/F SHIRLEY H. LEWIS PARCEL I.D. # 092 29 371 LF	LL-07-058-E033 N/F MERLE G. & MARY ROBERTA LEWIS PARCEL I.D. # 092 20A 474 LF	LL-07-058-E034 N/F ANNE HUNTER GUNN & BETTY JANE HUNTER WINES PARCEL I.D. # 092 35 658 LF	LL-07-058-E035 N/F RUDOLPH J. & JEFFERY W. SPIEKER PARCEL I.D. # 092 37 1279 LF



PIPE SPECIFICATION

7773+00	7774+00	7775+00	7776+00	7777+00	7778+00	7779+00	7780+00	7781+00	7782+00	7783+00	7784+00	7785+00	7786+00	7787+00	7788+00	7789+00	7790+00	7791+00	7792+00	7793+00	7794+00	7795+00	7796+00	7797+00	7798+00	7799+00	7800+00	7801+00	7802+00	7803+00	7804+00	7805+00	7806+00	7807+00	7808+00	7809+00	7810+00	7811+00	7812+00	7813+00	7814+00	7815+00	7816+00	7817+00	7818+00	7819+00	7820+00	7821+00	7822+00	7823+00	7824+00	7825+00	7826+00	7827+00	7828+00	7829+00	7830+00	7831+00	7832+00	7833+00	7834+00	7835+00	7836+00	7837+00	7838+00	7839+00	7840+00	7841+00	7842+00	7843+00	7844+00	7845+00	7846+00	7847+00	7848+00	7849+00	7850+00	7851+00	7852+00	7853+00	7854+00	7855+00	7856+00	7857+00	7858+00	7859+00	7860+00	7861+00	7862+00	7863+00	7864+00	7865+00	7866+00	7867+00	7868+00	7869+00	7870+00	7871+00	7872+00	7873+00	7874+00	7875+00	7876+00	7877+00	7878+00	7879+00	7880+00	7881+00	7882+00	7883+00	7884+00	7885+00	7886+00	7887+00	7888+00	7889+00	7890+00	7891+00	7892+00	7893+00	7894+00	7895+00	7896+00	7897+00	7898+00	7899+00	7900+00	7901+00	7902+00	7903+00	7904+00	7905+00	7906+00	7907+00	7908+00	7909+00	7910+00	7911+00	7912+00	7913+00	7914+00	7915+00	7916+00	7917+00	7918+00	7919+00	7920+00	7921+00	7922+00	7923+00	7924+00	7925+00	7926+00	7927+00	7928+00	7929+00	7930+00	7931+00	7932+00	7933+00	7934+00	7935+00	7936+00	7937+00	7938+00	7939+00	7940+00	7941+00	7942+00	7943+00	7944+00	7945+00	7946+00	7947+00	7948+00	7949+00	7950+00	7951+00	7952+00	7953+00	7954+00	7955+00	7956+00	7957+00	7958+00	7959+00	7960+00	7961+00	7962+00	7963+00	7964+00	7965+00	7966+00	7967+00	7968+00	7969+00	7970+00	7971+00	7972+00	7973+00	7974+00	7975+00	7976+00	7977+00	7978+00	7979+00	7980+00	7981+00	7982+00	7983+00	7984+00	7985+00	7986+00	7987+00	7988+00	7989+00	7990+00	7991+00	7992+00	7993+00	7994+00	7995+00	7996+00	7997+00	7998+00	7999+00	8000+00
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LEGEND

PROPERTY LINE	STORM SEWER	EXTRA WORK SPACE	TOPSOIL SEGREGATION AREA
FENCE	UNDERGROUND ELECTRIC	AREA OF NO DISTURBANCE	PROPOSED TEMPORARY R.O.W.
STREAM	WATER LINE	WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)	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	PERMANENT WATERBAR/SLOPE BREAKER	BELTED SILT RETENTION FENCE (BSRF)
ACCESS ROAD	PROPOSED PERMANENT EASEMENT	TEMPORARY WATERBAR/SLOPE BREAKER	STREAM CROSSING
PROPOSED GAS PIPELINE (NO GROUND SURVEY)	PROPOSED GAS PIPELINE (NO GROUND SURVEY)	TRENCH BREAKER/PLUG	USFS STREAM CROSSING WITH ENHANCED CONTROLS
		SLOPE DIRECTION	ORANGE SAFETY FENCE
		CONSTRUCTION ENTRANCE WITH DITCH	ROADSIDE DITCH
		CULVERT AS NEEDED	SOIL TYPE
		CULVERT WATERBAR	TYPICAL BIG 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.
- 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 WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS IN ACCORDANCE WITH SECTION V.4.5 FEDERAL ENERGY REGULATORY COMMISSION (FERC) UPLAND EROSION CONTROL, VEGETATION, AND MAINTENANCE PLAN, SECTION V.4.5. IN ADDITION, WETLAND AND WATERBODY CROSSINGS WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS IN ACCORDANCE WITH NATIONWIDE PERMIT 12 (NWP) ISSUED BY THE U.S. CORPS OF ENGINEERS.

REVISIONS

NO.	DATE	DWN.	CHKD.	APPD.	DESCRIPTION

Daniel R. Goldstein
 DANIEL R. GOLDSTEIN
 Lic. No. 047436
 PROFESSIONAL ENGINEER

ERM
 ENVIRONMENTAL RECOVERY MANAGEMENT

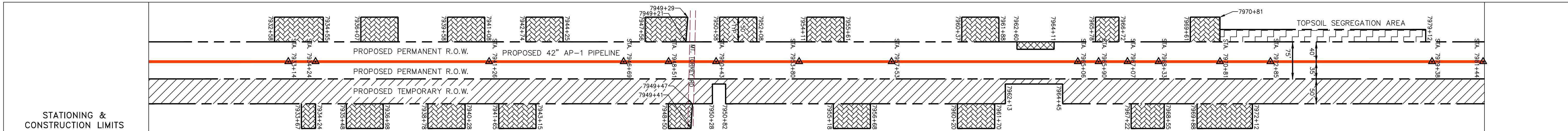
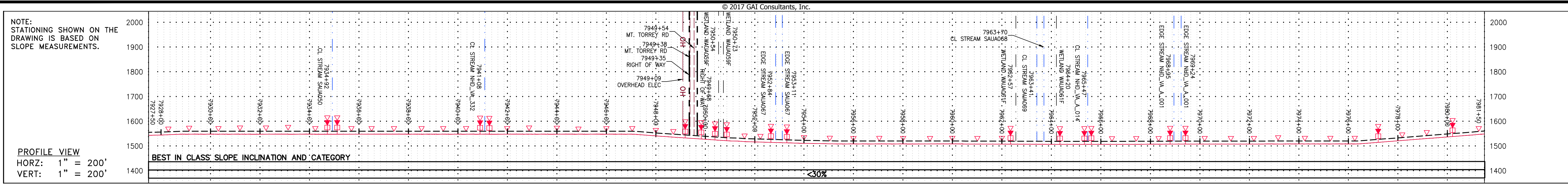
ATLANTIC COAST PIPELINE, LLC
 C/O DOMINION TRANSMISSION, INC.
 925 WHITE OAKS BLVD., BRIDGEPORT, WV 26330

CONSTRUCTION ALIGNMENT STA 7775+50 TO 7927+50
 AUGUSTA COUNTY, VIRGINIA

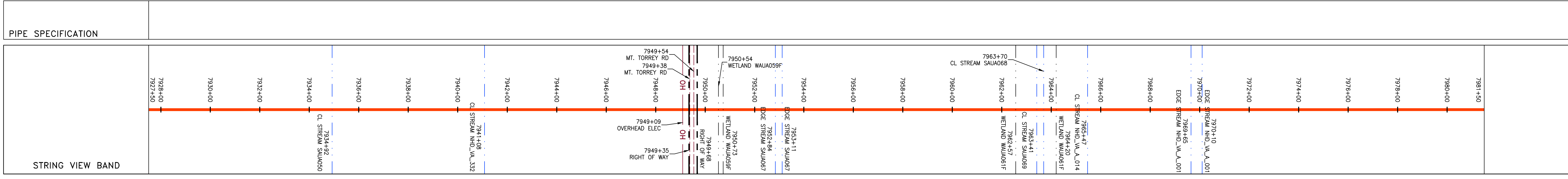
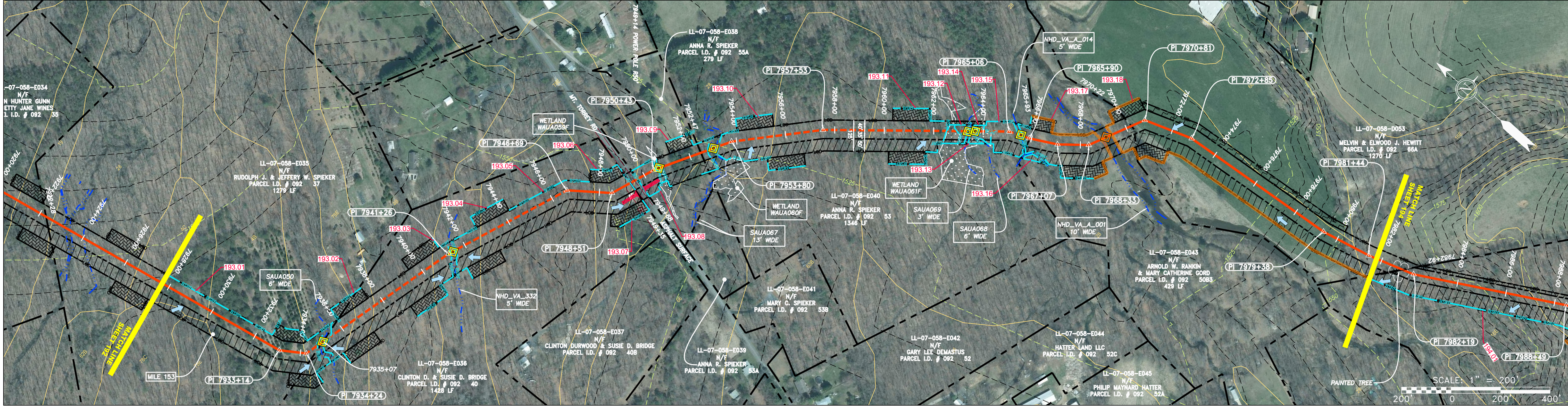
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 DATE: 3/24/17
 DRAWN: GPT
 CHECKED: DLH
 APPROVED: NET

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

PROJECT NO./DASH NO. **140468**
 TASK NO. **005** SUB TASK NO. **00**
 GROUP ID **D** DRAWING NO. **E192**
 192 OF 344



PROPERTY OWNERSHIP
LL-07-058-E035 N/F RUDOLPH J. & JEFFERY W. SPIEKER PARCEL I.D. # 092 37 1279 LF
LL-07-058-E036 N/F CLINTON D. & SUSIE D. BRIDGE PARCEL I.D. # 092 40 1428 LF
LL-07-058-E038 N/F ANNA R. SPIEKER PARCEL I.D. # 092 55A 279 LF
LL-07-058-E040 N/F ANNA R. SPIEKER PARCEL I.D. # 092 53 1346 LF
LL-07-058-E043 N/F ARNOLD W. RANKIN & MARY CATHERINE GORD PARCEL I.D. # 092 50B3 429 LF
LL-07-058-E053 N/F MELVIN & ELWOOD J. HEWITT PARCEL I.D. # 082 86A 1270 LF



LEGEND

PROPERTY LINE	STORM SEWER	EXTRA WORK SPACE	TOPSOIL SEGREGATION AREA
FENCE	UNDERGROUND ELECTRIC	AREA OF NO DISTURBANCE	PROPOSED TEMPORARY R.O.W.
STREAM	WATER LINE	WETLAND <small>(COLOR SHOWN TO PROVIDE CLARITY ONLY)</small>	UTILITY POLE
EXISTING GAS PIPELINE	SANITARY SEWER	NOTE: THE PE SEAL AND SIGNATURE APPLIES ONLY TO THE E&S CONTROL SECTION COMPLETED BY ERM (SEE NOTE 12).	
OVERHEAD UTILITY LINES	EDGE OF GRAVEL	PERMANENT WATERBAR/SLOPE BREAKER	TEMPORARY WATERBAR/SLOPE BREAKER
ACCESS ROAD	PROPOSED PERMANENT EASEMENT	STREAM CROSSING WITH ENHANCED CONTROLS	USFS ROAD CROSSING WITH ENHANCED CONTROLS
PROPOSED GAS PIPELINE	PROPOSED GAS PIPELINE (NO GROUND SURVEY)	SLOPE DIRECTION	CONSTRUCTION ENTRANCE WITH DITCH
		CULVERT WATERBAR	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.
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- ALL STATIONING SHOWN IS SLOPE STATIONING.
- ACCESS ROADS HAVE BEEN GROUPED INTO FOUR CATEGORIES: 1) EXISTING ROADS NO IMPROVEMENTS, 2) EXISTING ROADS MAJOR IMPROVEMENTS AND 4) NEW ROADS. APPROPRIATE EROSION AND SEDIMENTATION 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.
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- 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.

PIPE SPECIFICATION

111.03
 C 111.001
 A(E)
 30-58%

REVISIONS

NO.	DATE	BY	CHKD.	APPD.	DESCRIPTION

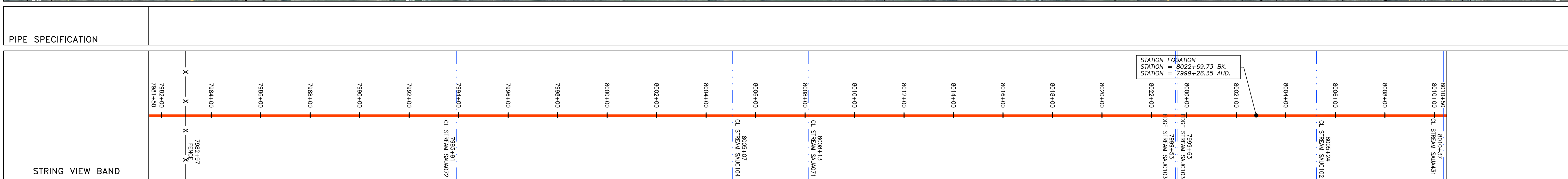
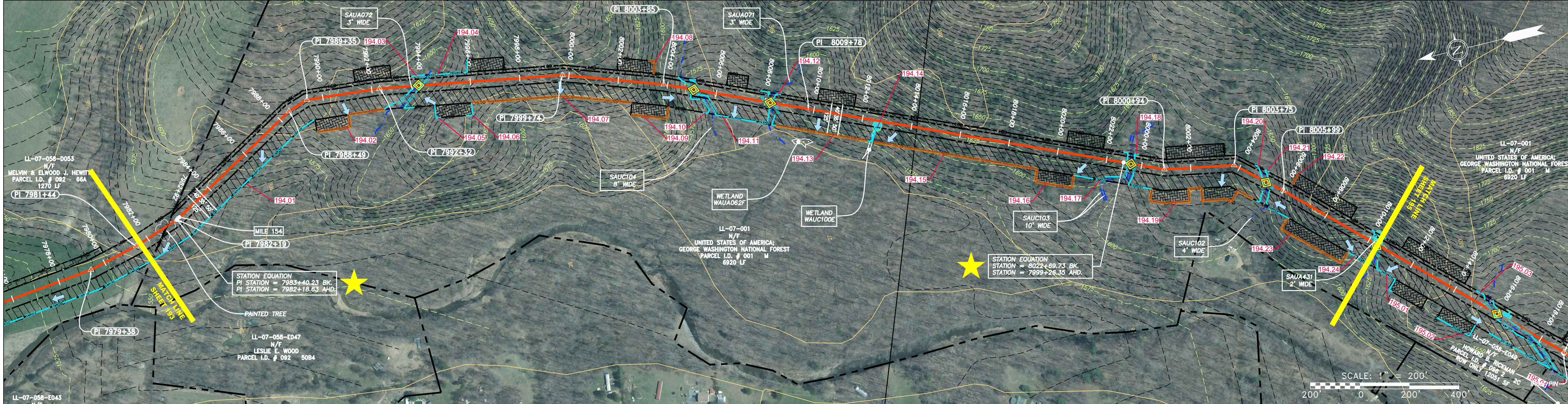
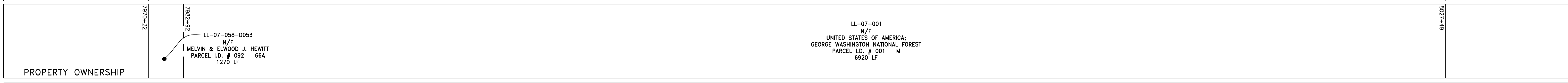
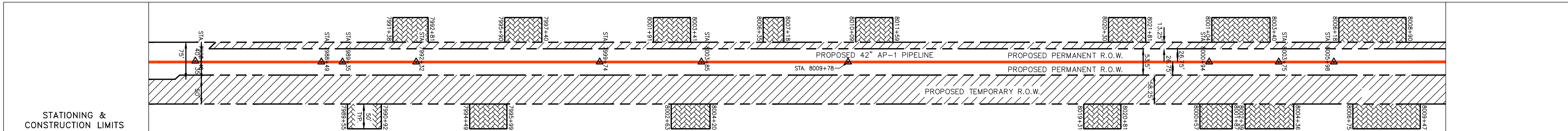
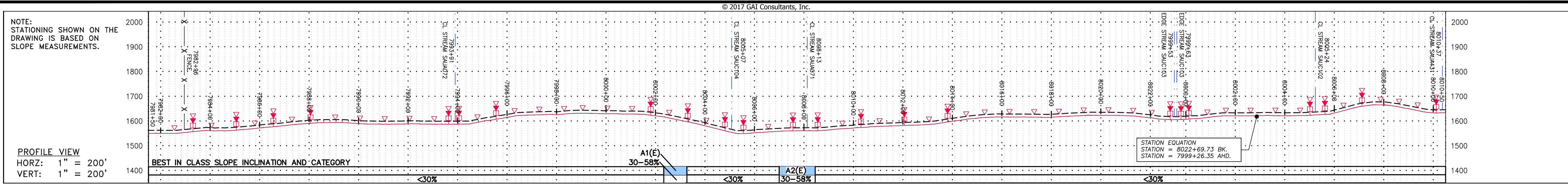
Professional Engineer Seal:
 Daniel R. Goldstein
 Daniel R. Goldstein
 Lic. No. 047436
 PROFESSIONAL ENGINEER

Scale: AS SHOWN
Date: 3/24/17
Drawn: GPT
Checked: DLH
Approved: NET

Project No./Dash No.: 140468
Task No. Sub Task No.: 005 00
Group ID Drawing No.: D E193
Sheet No. of Total: 193 OF 344

Atlantic Coast Pipeline, LLC
 C/O Dominion Transmission, Inc.
 925 WHITE OAKS BLVD., BRIDGEPORT, WV 26330

GAI CAD FILE NO. R:\050-5159 - GAI - THRASHER - SERP - MAPPING\SURVEY\DRAWING\SEC 3\RR SHEETS 193-198 (51-55).DWG



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	COMPOST FILTER SOCK
EXISTING GAS PIPELINE	SANITARY SEWER	PROPOSED TEMPORARY R.O.W.	SEDIMENT BARRIER IDENTIFICATION
OVERHEAD UTILITY LINES	EDGE OF GRAVEL	WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)	CULVERT IDENTIFICATION
ACCESS ROAD	PROPOSED PERMANENT EASEMENT	UTILITY POLE	ORANGE SAFETY FENCE
PROPOSED GAS PIPELINE	PROPOSED GAS PIPELINE (NO GROUND SURVEY)		ROADSIDE DITCH

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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- 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 BIC'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.S FEDERAL ENERGY REGULATORY COMMISSION (FERC) UPLAND EROSION CONTROL, VEGETATION, AND MAINTENANCE PLAN, SECTION V.A.S. 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	CHKD.	APPVD.	DESCRIPTION

Daniel R. Goldstein
 DANIEL R. GOLDSTEIN
 Lic. No. 047436
 PROFESSIONAL ENGINEER

ERM

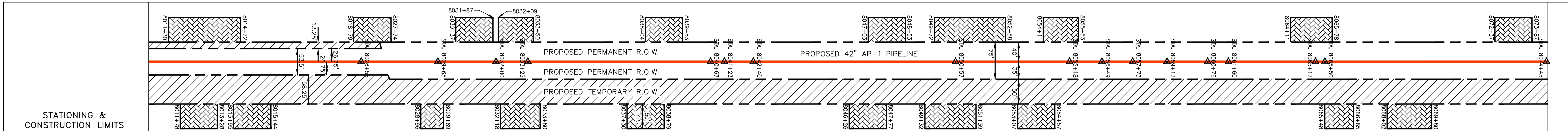
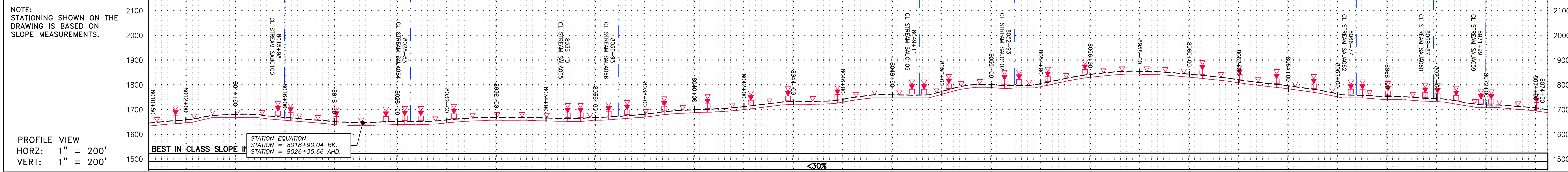
ATLANTIC COAST PIPELINE, LLC
 C/O DOMINION TRANSMISSION, INC.
 925 WHITE OAKS BLVD., BRIDGEPORT, WV 26330

42" AP-1 PIPELINE
 CONSTRUCTION ALIGNMENT STA 7981+50 TO 8010+50
 AUGUSTA COUNTY, VIRGINIA

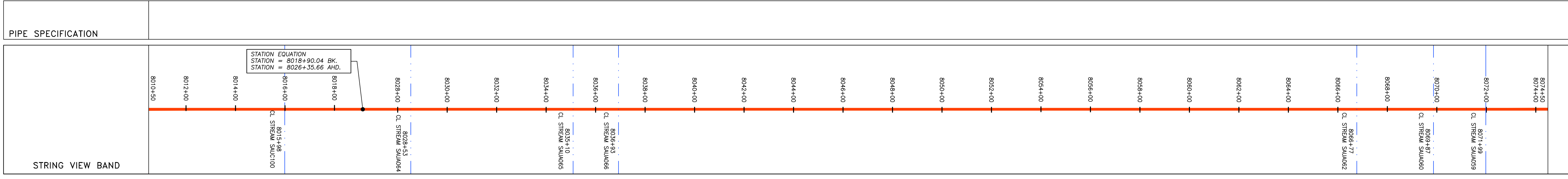
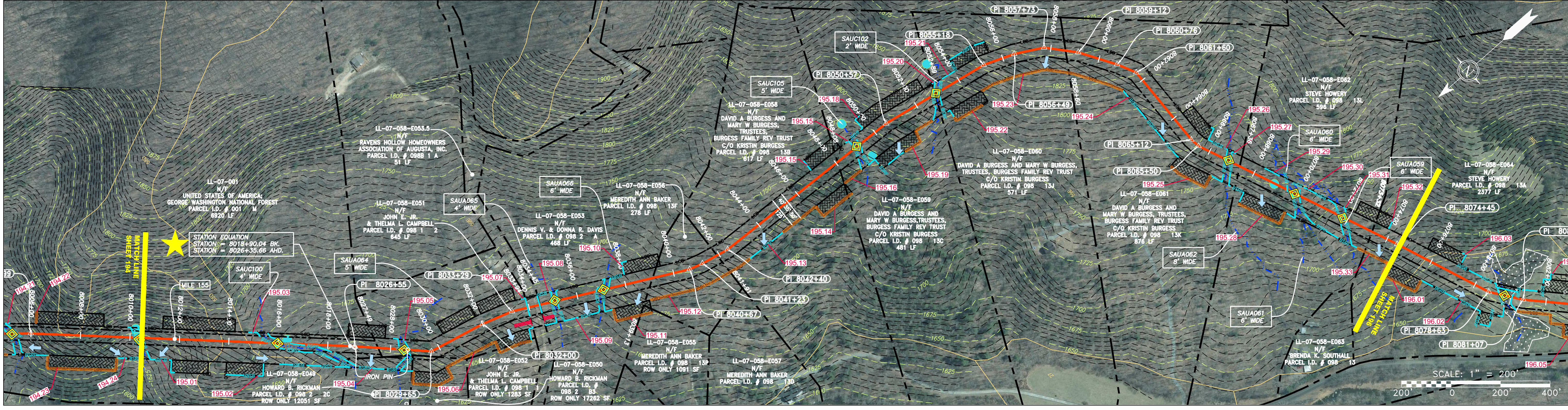
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 DRAWN: GPT
 CHECKED: DLH
 APPROVED: NET

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

PROJECT NO./DASH NO. **140468**
 TASK NO. SUB TASK NO. **005 00**
 GROUP ID DRAWING NO. **D E194**
 194 OF 344



PROPERTY OWNERSHIP	PARCEL I.D.	OWNER	AREA	ROW ONLY
LL-07-001	N/F	UNITED STATES OF AMERICA; GEORGE WASHINGTON NATIONAL FOREST	PARCEL I.D. # 001	6920 LF
LL-07-058-E049	N/F	HOWARD B. RICKMAN	PARCEL I.D. # 098 2 B3	ROW ONLY 17262 SF
LL-07-058-E051	N/F	JOHN E. JR. & THELMA L. CAMPBELL	PARCEL I.D. # 098 1	645 LF
LL-07-058-E053.5	N/F	RAVENS HOLLOW HOMEOWNERS ASSOCIATION OF AUGUSTA, INC.	PARCEL I.D. # 098 1 A	51 LF
LL-07-058-E053	N/F	DENNIS V. & DONNA R. DAVIS	PARCEL I.D. # 098 2 A	468 LF
LL-07-058-E056	N/F	MEREDITH ANN BAKER	PARCEL I.D. # 098 13P	278 LF
LL-07-058-E055	N/F	DAVID A. BURGESS AND MARY W. BURGESS, TRUSTEES; BURGESS FAMILY REV TRUST	PARCEL I.D. # 098 13B	617 LF
LL-07-058-E059	N/F	DAVID A. BURGESS AND MARY W. BURGESS, TRUSTEES; BURGESS FAMILY REV TRUST	PARCEL I.D. # 098 13C	481 LF
LL-07-058-E060	N/F	DAVID A. BURGESS AND MARY W. BURGESS, TRUSTEES; BURGESS FAMILY REV TRUST	PARCEL I.D. # 098 13J	571 LF
LL-07-058-E061	N/F	DAVID A. BURGESS AND MARY W. BURGESS, TRUSTEES; BURGESS FAMILY REV TRUST	PARCEL I.D. # 098 13K	876 LF
LL-07-058-E062	N/F	STEVE HOWERY	PARCEL I.D. # 098 13L	596 LF
LL-07-058-E064	N/F	STEVE HOWERY	PARCEL I.D. # 098 13A	2377 LF



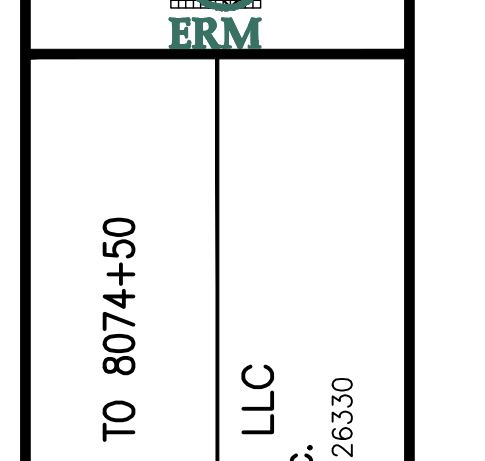
LEGEND

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

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.
- BEST IN CLASS (BIC) 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 BMPs AS OF THE DATE SIGNED AND SEALED BASED ON THE SOURCE DATA PROVIDED AND AS DESCRIBED IN THE NOTES SECTION OF THE INDEX SHEET OF THIS PLAN SET.
- THE CONSTRUCTION RIGHT-OF-WAY (ROW) WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS IN ACCORDANCE WITH SECTION V.4.5 FEDERAL ENERGY REGULATORY COMMISSION (FERC) UPLAND EROSION CONTROL, 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.

NO.	DATE	APPD.	CHKD.	DESCRIPTION



42" AP-1 PIPELINE
CONSTRUCTION ALIGNMENT STA 8010+50 TO 8074+50
 AUGUSTA COUNTY, VIRGINIA

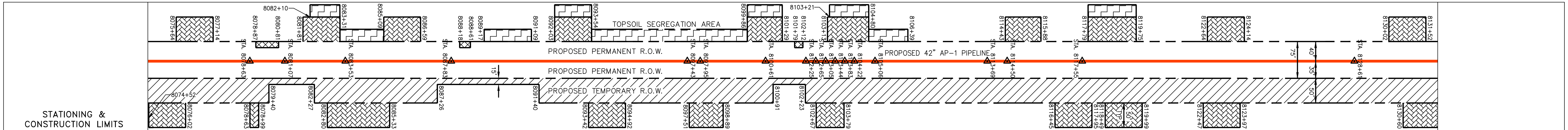
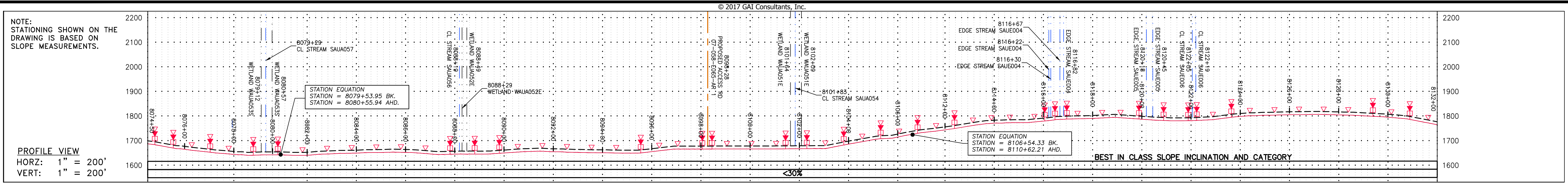
ATLANTIC COAST PIPELINE, LLC
 C/O DOMINION TRANSMISSION, INC.
 925 WHITE OAKS BLVD., BRIDGEPORT, WV 26330

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

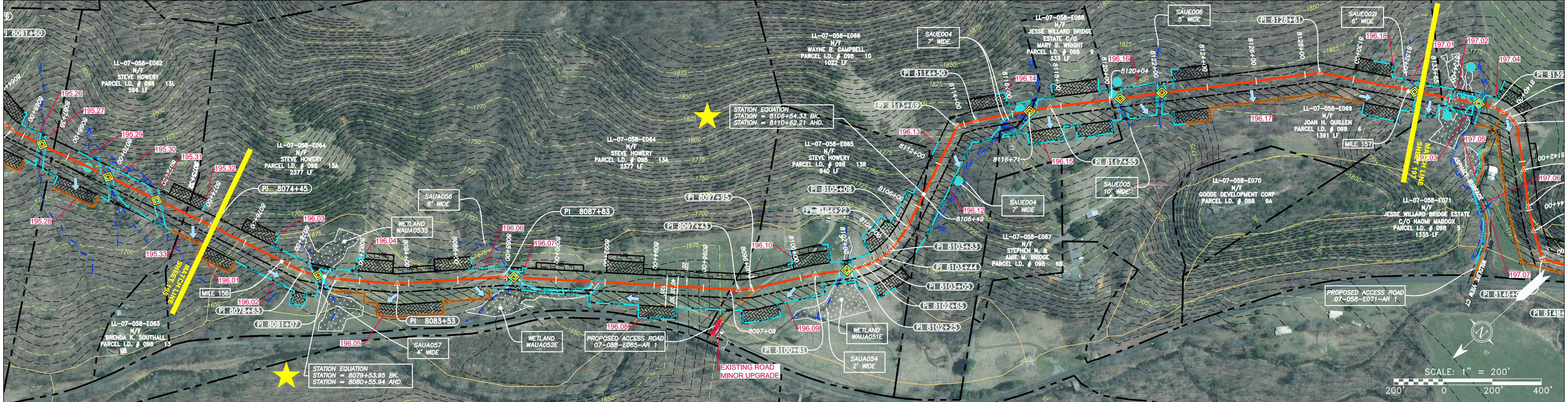


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TASK NO. SUB TASK NO.	005 00
GROUP ID DRAWING NO.	D E195
195 OF 344	

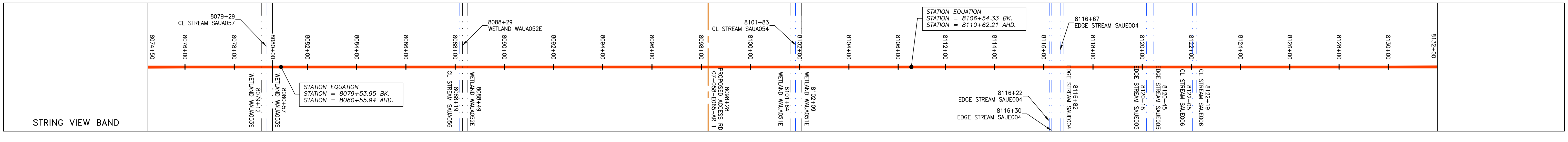
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PROPERTY OWNERSHIP
LL-07-058-E064 N/F STEVE HOWERY PARCEL I.D. # 098 13A 2277 LF
LL-07-058-E065 N/F STEVE HOWERY PARCEL I.D. # 098 13R 940 LF
LL-07-058-E066 N/F WAYNE B. CAMPBELL PARCEL I.D. # 098 10 1022 LF
LL-07-058-E068 N/F JESSE WILLARD BRIDGE ESTATE C/O MARY B. WRIGHT PARCEL I.D. # 098 9 333 LF
LL-07-058-E069 N/F JOAN H. QUILLEN PARCEL I.D. # 098 6 1361 LF



PIPE SPECIFICATION
8074+00
8078+00
8082+00
8086+00
8090+00
8094+00
8098+00
8102+00
8106+00
8110+00
8114+00
8118+00
8122+00
8126+00
8130+00
8132+00



LEGEND

— X — X —	PROPERTY LINE	— F —	FENCE	— S —	STREAM	— G —	EXISTING GAS PIPELINE	— OH —	OVERHEAD UTILITY LINES	— A —	ACCESS ROAD	— P —	PROPOSED GAS PIPELINE
— W —	WATER LINE	— SAN —	SANITARY SEWER	— E —	EDGE OF GRAVEL	— P —	PROPOSED PERMANENT EASEMENT	— P —	PROPOSED GAS PIPELINE (NO GROUND SURVEY)	— S —	STORM SEWER	— U —	UNDERGROUND ELECTRIC
—	WETLAND	—	WETLAND WAUA053S	—	WETLAND WAUA052E	—	WETLAND WAUA051E	—	WETLAND WAUA050E	—	WETLAND WAUA049E	—	WETLAND WAUA048E
—	EXTRA WORK SPACE	—	TOPSOIL SEGREGATION AREA	—	AREA OF NO DISTURBANCE	—	PROPOSED TEMPORARY R.O.W.	—	UTILITY POLE	—	PERMANENT WATERBAR/SLOPE BREAKER	—	TEMPORARY WATERBAR/SLOPE BREAKER
—	STREAM CROSSING	—	USFWS CROSSING WITH ENHANCED CONTROLS	—	SEEP	—	SLOPE DIRECTION	—	CONSTRUCTION ENTRANCE WITH DITCH	—	CULVERT AS NEEDED	—	CULVERT WATERBAR
—	LOD	—	BSRF	—	111.03	—	111.01	—	SOIL TYPE	—	LIMIT OF DISTURBANCE	—	BELTED SILT RETENTION FENCE (BSRF)
—	COMPOST FILTER SOCK	—	SEDIMENT BARRIER IDENTIFICATION	—	CURB	—	SOIL TYPE	—	TYPICAL BIG 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.
- 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.
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- THE CONSTRUCTION RIGHT-OF-WAY (ROW) WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS IN ACCORDANCE WITH SECTION V.4.S FEDERAL ENERGY REGULATORY COMMISSION (FERC) UPLAND EROSION CONTROL, REVEGETATION, AND MAINTENANCE PLAN, SECTION V.4.S. 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	APPD.	CHKD.	DESCRIPTION

PROFESSIONAL ENGINEER
 Daniel R. Goldstein
 Lic. No. 047436

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

CONSTRUCTION ALIGNMENT STA 8074+00 TO 8132+00
 AUGUSTA COUNTY, VIRGINIA

SCALE: AS SHOWN
 DATE: 5/15/17
 DRAWN: GPT
 CHECKED: DLH
 APPROVED: NET

PROJECT NO./DASH NO. 140468
 TASK NO. SUB TASK NO. 005 00
 GROUP ID DRAWING NO. D E196
 196 OF 344

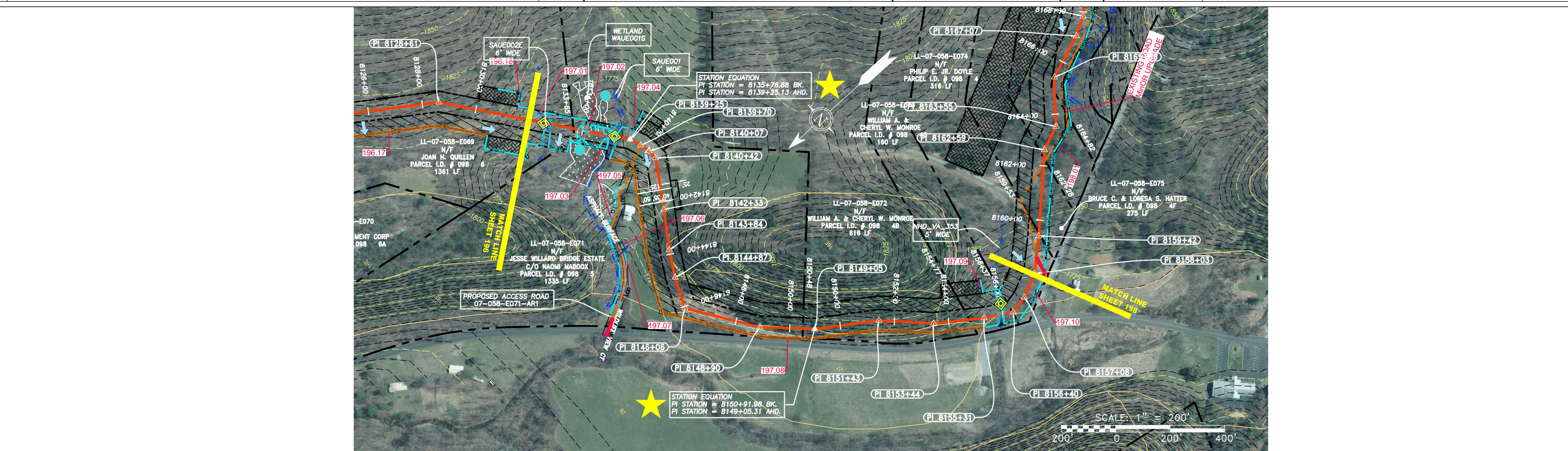
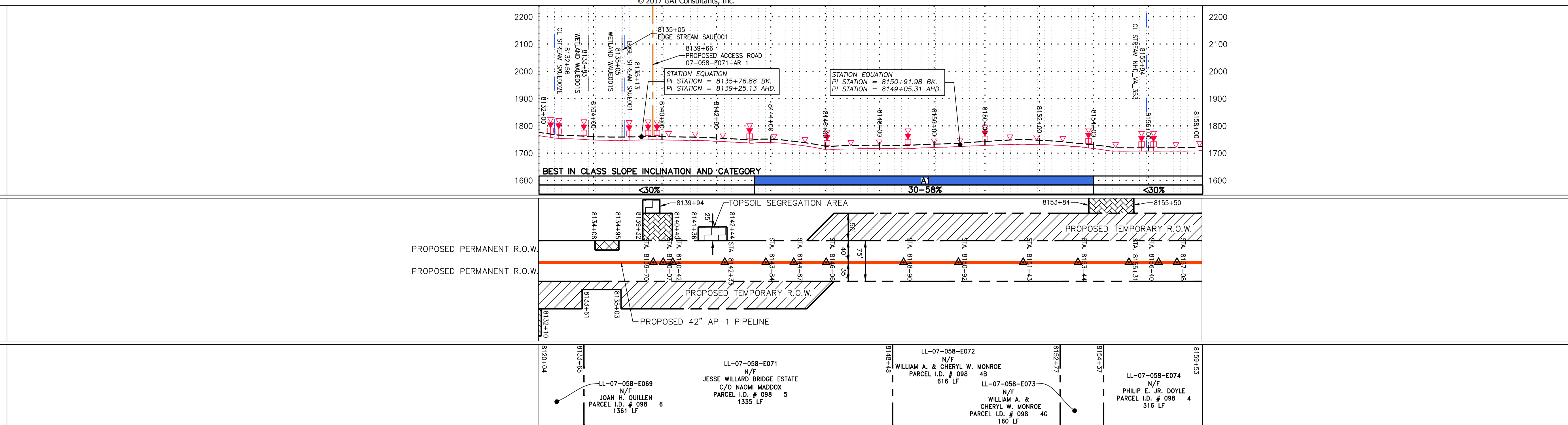
GAI CAD FILE NO. \\\TTC-FS1\THRASHER\050-5159 - GAI, INC. - SERP - MAPPING\SURVEY\DRAWING\SEC 3\RR SHEETS_193-198 (51-55).DWG

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

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

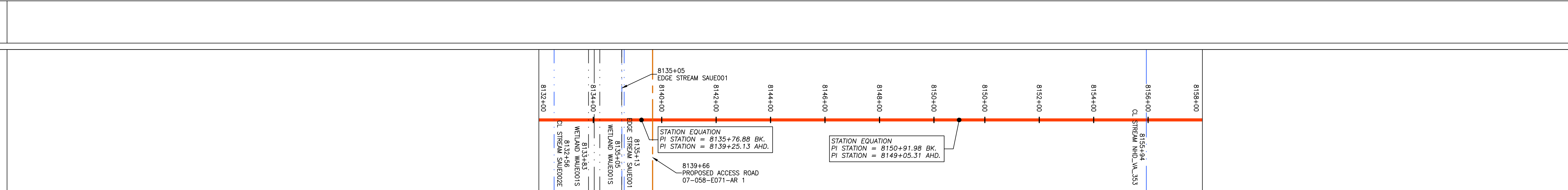
STATIONING &
CONSTRUCTION LIMITS

PROPERTY OWNERSHIP



PIPE SPECIFICATION

STRING VIEW BAND



LEGEND

— X — X —	PROPERTY LINE	— E —	STORM SEWER	▨	EXTRA WORK SPACE	▨	TOPSOIL SEGREGATION AREA	— LOD —	LIMIT OF DISTURBANCE	<p>NOTES:</p> <ol style="list-style-type: none"> COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY - UTM WITH NAD83 DATUM, ZONE 17, US SURVEY FOOT, CENTRAL MERIDIAN 81° W. CONTOURS AND TOPOGRAPHIC FEATURES WERE DERIVED FROM LIDAR DATA AND GPS SUB-METER GROUND SURVEY PERFORMED BY GAI CONSULTANTS, INC FROM 11-03-2014 THRU 11-07-2014. IMAGERY TAKEN FROM GOOGLE EARTH. THE PROPERTY LINES SHOWN ARE BASED ON GIS & TAX ASSESSMENT RECORDS (PROVIDED BY OTHERS). GAI CONSULTANTS MAKE NO GUARANTEE EITHER EXPRESSED OR IMPLIED AS TO THE ACCURACY OF THE RECORDS AS SHOWN ON THESE DRAWINGS. STREAM AND WETLAND DATA SHOWN ON THE DRAWINGS WAS PROVIDED BY ERM. EROSION AND SEDIMENTATION CONTROL ELEMENTS MAY BE SHOWN OUTSIDE OF THE WORK AREAS FOR CLARITY ONLY. ACTUAL INSTALLATION SHALL BE WITHIN THE WORK AREAS. ALL STATIONING SHOWN IS SLOPE STATIONING. SILT FENCE AND FILTER SOCK SHALL BE INSTALLED PARALLEL TO CONTOUR TO EXTENT PRACTICABLE IN ACCORDANCE WITH STANDARD DETAIL. BEST IN CLASS (BIC) STEEP SLOPE 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 BIC'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.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.
— G — G —	EXISTING GAS PIPELINE	— W —	WATER LINE	▨	AREA OF NO DISTURBANCE	▨	PROPOSED TEMPORARY R.O.W.	— BSRF —	BELTED SILT RETENTION FENCE (BSRF)	
— OH —	OVERHEAD UTILITY LINES	— SAN —	SANITARY SEWER	▨	WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)	▨	UTILITY POLE	— C 111.03 —	COMPOST FILTER SOCK	
— — — —	ACCESS ROAD	— — — —	PROPOSED PERMANENT EASEMENT	▨	NOTE: THE PE SEAL AND SIGNATURE APPLIES ONLY TO THE E&S CONTROL DESIGN COMPLETED BY ERM (SEE NOTE 12).	▨		— C 111.001 —	SEDIMENT BARRIER IDENTIFICATION	
— — — —	PROPOSED GAS PIPELINE	— — — —	PROPOSED GAS PIPELINE (NO GROUND SURVEY)	▨		▨		— X — X —	CULVERT IDENTIFICATION	
				▨		▨		— — — —	ORANGE SAFETY FENCE	
				▨		▨		— — — —	ROADSIDE DITCH	
				▨		▨		— — — —	SOIL TYPE	
				▨		▨		— — — —	TYPICAL BIG SLOPE CATEGORY SLOPE INCLINATION	
				▨		▨		— — — —		
				▨		▨		— — — —		
				▨		▨		— — — —		
				▨		▨		— — — —		
				▨		▨		— — — —		
				▨		▨		— — — —		

NO.	DATE	DWN.	CHKD.	APPD.	DESCRIPTION

42" AP-1 PIPELINE
CONSTRUCTION ALIGNMENT STA 8132+00 TO 8158+00

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

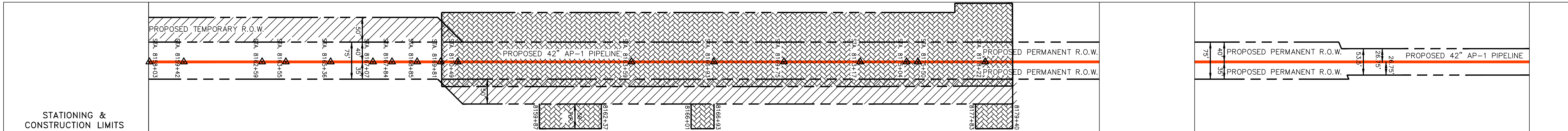
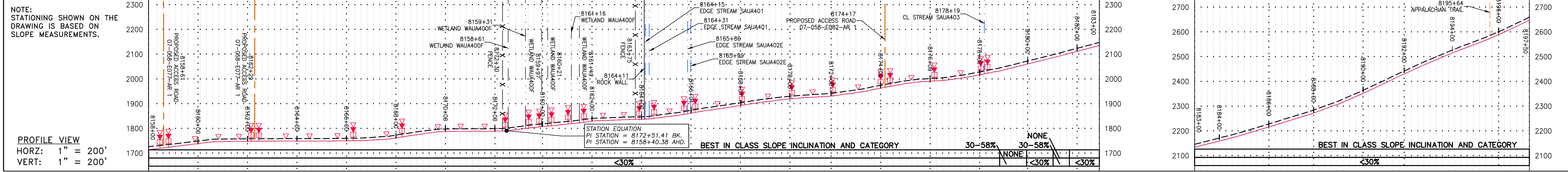
Augusta County, Virginia

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

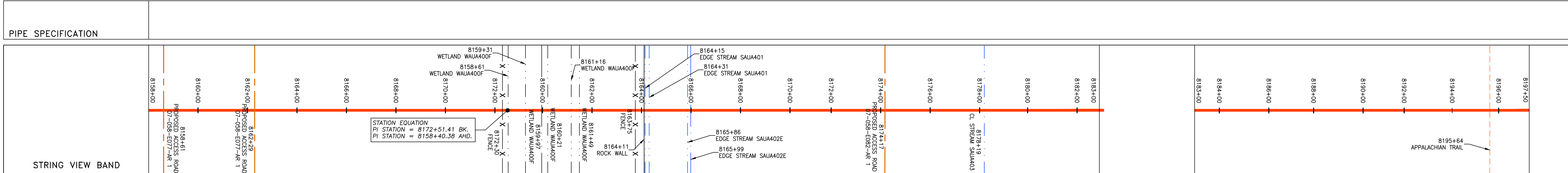
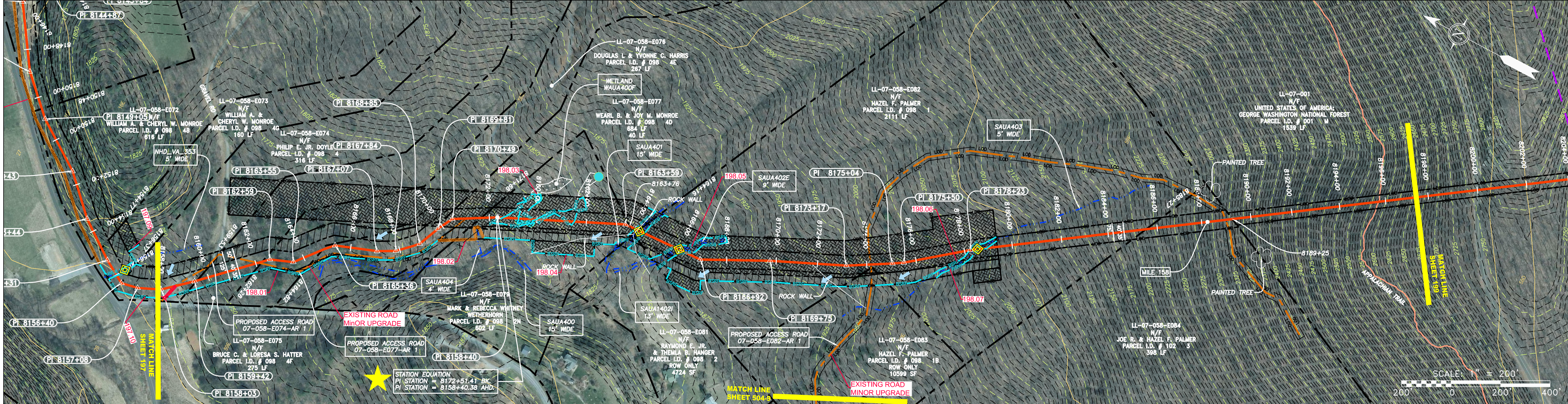
gai consultants

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

PROJECT NO./DASH NO.	140468
TASK NO. SUB TASK NO.	005 00
GROUP ID DRAWING NO.	D E197
197 OF 344	

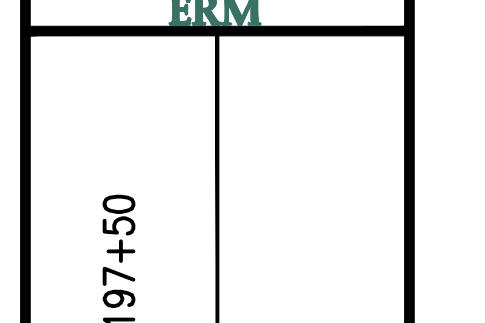


PROPERTY OWNERSHIP	PROPERTY OWNERSHIP	PROPERTY OWNERSHIP	PROPERTY OWNERSHIP	PROPERTY OWNERSHIP	PROPERTY OWNERSHIP	PROPERTY OWNERSHIP	PROPERTY OWNERSHIP	PROPERTY OWNERSHIP	PROPERTY OWNERSHIP
LL-07-058-E074 N/F PHILIP E. JR. DOYLE PARCEL I.D. # 098 4 316 LF	LL-07-058-E075 N/F BRUCE C. & LORESA S. HATTER PARCEL I.D. # 098 4F 275 LF	LL-07-058-E076 N/F DOUGLAS L. & YVONNE C. HARRIS PARCEL I.D. # 098 4E 254 LF	LL-07-058-E077 N/F WEARL B. & JOY M. MONROE PARCEL I.D. # 098 4D 684 LF	LL-07-058-E079 N/F MARK & REBECCA WHITNEY WETHERHORN PARCEL I.D. # 098 2N 602 LF	LL-07-058-E081 N/F RAYMOND E. JR. & THEMILA B. HANGER PARCEL I.D. # 098 2 ROW ONLY 4724 SF	LL-07-058-E082 N/F HAZEL F. PALMER PARCEL I.D. # 098 1 2111 LF	LL-07-058-E083 N/F HAZEL F. PALMER PARCEL I.D. # 098 1B ROW ONLY 10599 SF	LL-07-058-E084 N/F JOE R. & HAZEL F. PALMER PARCEL I.D. # 102 3 398 LF	LL-07-001 N/F UNITED STATES OF AMERICA; GEORGE WASHINGTON NATIONAL FOREST PARCEL I.D. # 001 M 1539 LF



<p>LEGEND</p> <ul style="list-style-type: none"> PROPERTY LINE FENCE STREAM EXISTING GAS PIPELINE OVERHEAD UTILITY LINES ACCESS ROAD PROPOSED GAS PIPELINE STORM SEWER UNDERGROUND ELECTRIC WATER LINE SAN 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 	<p>PERMANENT WATERBAR/SLOPE BREAKER</p> <p>TEMPORARY WATERBAR/SLOPE BREAKER</p> <p>TRENCH BREAKER/PLUG</p> <p>STREAM CROSSING</p> <p>USFWS CROSSING WITH ENHANCED CONTROLS</p> <p>SEEP</p> <p>SLOPE DIRECTION</p> <p>CONSTRUCTION ENTRANCE WITH DITCH</p> <p>CULVERT AS NEEDED</p> <p>CULVERT WATERBAR</p>	<p>LOD</p> <p>BSRF</p> <p>111.03</p> <p>C 111.001</p> <p>SOIL TYPE</p> <p>AT (E)</p> <p>30-58%</p>	<p>LIMIT OF DISTURBANCE</p> <p>BELTED SILT RETENTION FENCE (BSRF)</p> <p>COMPOST FILTER SOCK</p> <p>SEDIMENT BARRIER IDENTIFICATION</p> <p>CULVERT IDENTIFICATION</p> <p>ORANGE SAFETY FENCE</p> <p>ROADSIDE DITCH</p> <p>TYPICAL BIG SLOPE CATEGORY SLOPE INCLINATION</p>	<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. 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, 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.	APPD.	DESCRIPTION



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

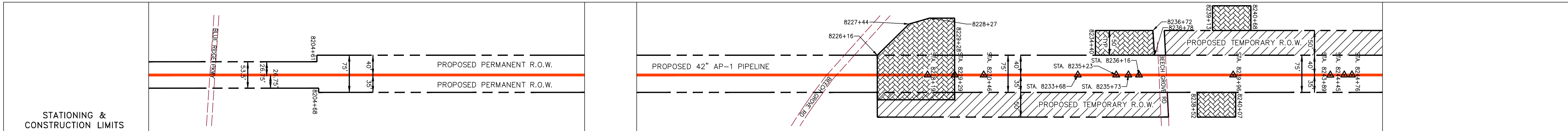
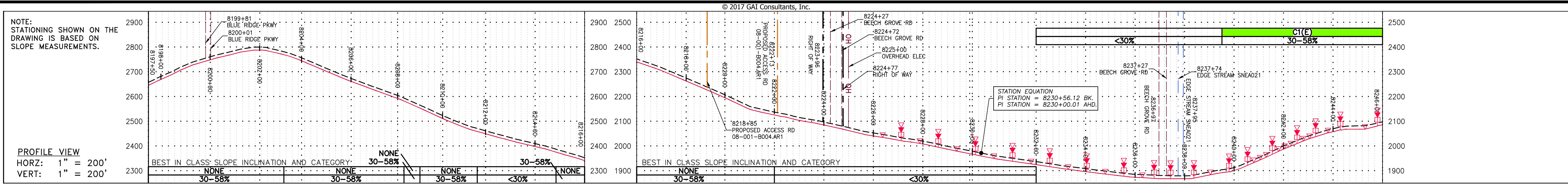
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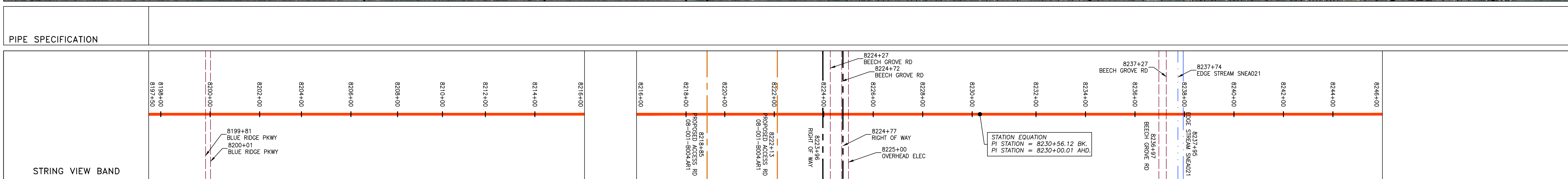
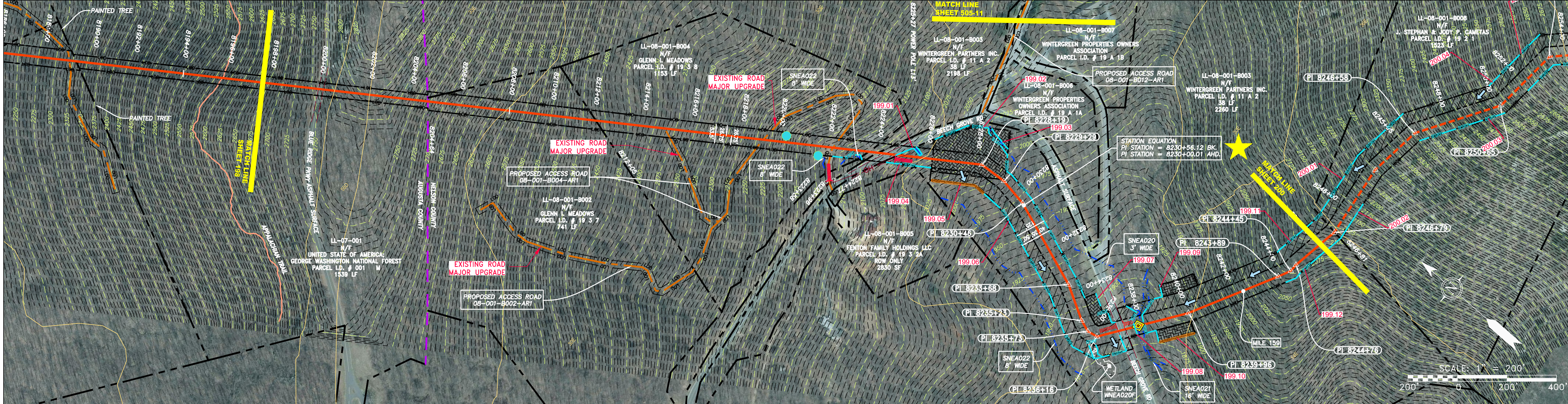
PROJECT NO./DASH NO.	140468
TASK NO. SUB TASK NO.	005 00
GROUP ID DRAWING NO.	D E198
198 OF 344	

GAI CAD FILE NO. \NTG-FS1\THRASHER\050-5159 - GAI, INC. - SERP - MAPPING SURVEY DRAWING SEC 3\RR SHEETS 193-198 (51-55).DWG

GAI CAD FILE NO. \ITG-FS1\THRASHER\050-5159 - GIA, INC. - GAI - THRASHER - MAPPING\SURVEY\DRAWING\SEC 3\RR SHEETS 199-205 (56-60).DWG



PROPERTY OWNERSHIP	8198+25	8200+00	8204+00	8212+00	8218+00	8224+00	8228+00	8234+00	8240+00	8246+00
LL-07-001 N/F UNITED STATE OF AMERICA; GEORGE WASHINGTON NATIONAL FOREST PARCEL I.D. # 001 M 1539 LF										
LL-08-001-8002 N/F GLENN L MEADOWS PARCEL I.D. # 19 3 7 741 LF										
LL-08-001-8004 N/F GLENN L MEADOWS PARCEL I.D. # 19 3 8 1153 LF										
LL-08-001-8003 N/F WINTERGREEN PARTNERS INC. PARCEL I.D. # 11 A 2 38 LF										
LL-08-001-8005 N/F FENTON FAMILY HOLDINGS LLC PARCEL I.D. # 19 3 2A ROW ONLY 2830 SF										
LL-08-001-8003 N/F WINTERGREEN PARTNERS INC. PARCEL I.D. # 11 A 2 2260 LF										



LEGEND

	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)		

PERMANENT WATERBARRIER/SLOPE BREAKER

TEMPORARY WATERBARRIER/SLOPE BREAKER

TRENCH BREAKER/PLUG

STREAM CROSSING

USFWS STREAM CROSSING WITH ENHANCED CONTROLS

SEEP

SLOPE DIRECTION

SLOPE ENTRANCE WITH DITCH

CULVERT AS NEEDED

CULVERT WATERBAR

LOD

BSRF

111.03

C 111.01

SOIL TYPE

AL(E)

30-58%

LIMIT OF DISTURBANCE

BELTED SILT RETENTION FENCE (BSRF)

COMPOST FILTER SOCK

SEDIMENT BARRIER IDENTIFICATION

CULVERT IDENTIFICATION

ORANGE SAFETY FENCE

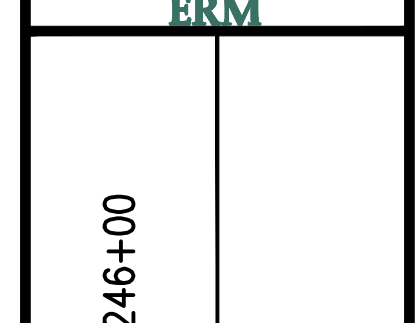
ROADSIDE DITCH

TYPICAL BIG 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, 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.
- STREAM AND WETLAND DATA SHOWN ON THE DRAWINGS WAS PROVIDED BY ERM.
- EROSION AND SEDIMENTATION CONTROL ELEMENTS MAY BE SHOWN OUTSIDE OF THE WORK AREAS FOR CLARITY ONLY. ACTUAL INSTALLATION SHALL BE WITHIN THE WORK AREAS.
- ALL STATIONING SHOWN IS SLOPE STATIONING.
- SILT FENCE AND FILTER SOCK SHALL BE INSTALLED PARALLEL TO CONTOUR TO EXTENT PRACTICABLE IN ACCORDANCE WITH STANDARD DETAIL.
- BEST IN CLASS (BIC) STEEP SLOPE CATEGORY INFORMATION CAN BE FOUND IN THE APPENDIX OF THE STORMWATER POLLUTION PREVENTION PLAN.
- EROSION CONTROL MATTING SHALL BE PLACED IN AREAS OF 30% SLOPE AND GREATER, WHICH ARE INDICATED ON THE BEST IN CLASS STEEP SLOPE BAND.
- ACCESS ROADS HAVE BEEN GROUPED INTO FOUR CATEGORIES - 1) EXISTING ROADS NO IMPROVEMENTS, 2) EXISTING ROADS MINOR IMPROVEMENTS, 3) EXISTING ROADS MAJOR IMPROVEMENTS AND 4) NEW ROADS. APPROPRIATE EROSION AND SEDIMENT CONTROLS WILL BE PROVIDED FOR ROADS IN CATEGORIES 1 AND 2.
- WETLANDS 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 1 AND 2.
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- 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.

NO.	DATE	BY	CHKD.	APPD.	DESCRIPTION



42" AP-1 PIPELINE
CONSTRUCTION ALIGNMENT STA 8197+50 TO 8246+00
 AUGUSTA & NELSON COUNTIES, VIRGINIA

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

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

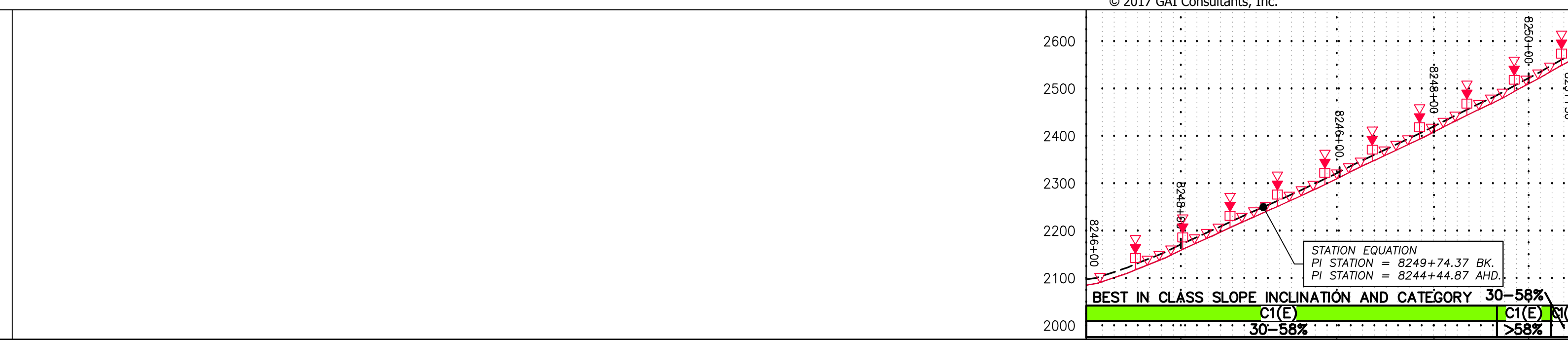


PROJECT NO./DASH NO.	140468
TASK NO. SUB TASK NO.	005 00
GROUP ID DRAWING NO.	D E199
199 OF 344	

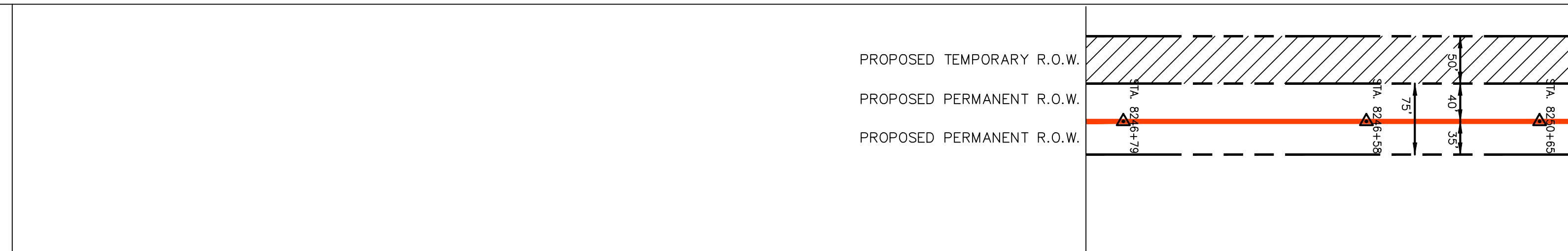
GAI CAD FILE NO. \\\TTC-FS1\THRASHER\050-5159 - GAI, INC. - GAI - THRASHER - SERP - MAPPING\SURVEY\DRAWING\SEC 3\RR SHEETS 199-205 (56-60).DWG

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

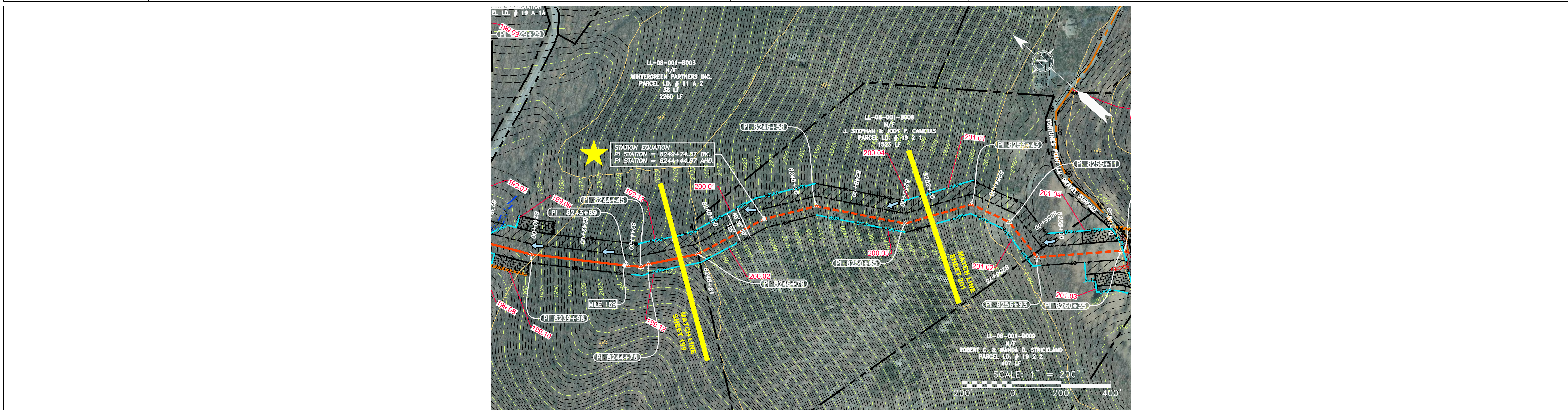
PROFILE VIEW
HORZ: 1" = 200'
VERT: 1" = 200'



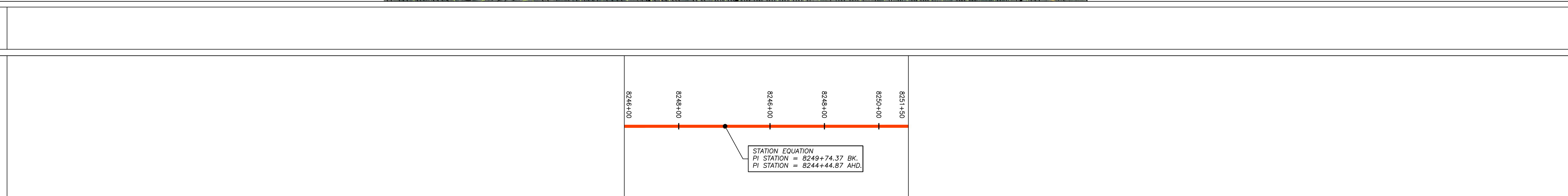
STATIONING &
CONSTRUCTION LIMITS



PROPERTY OWNERSHIP



PIPE SPECIFICATION



LEGEND

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

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

LOD
BSRF
BELTED SILT RETENTION FENCE (BSRF)
COMPOST FILTER SOCK
SEDIMENT BARRIER IDENTIFICATION
CULVERT IDENTIFICATION
ORANGE SAFETY FENCE
ROADSIDE DITCH
SOIL TYPE
TYPICAL BIG SLOPE CATEGORY SLOPE INCLINATION

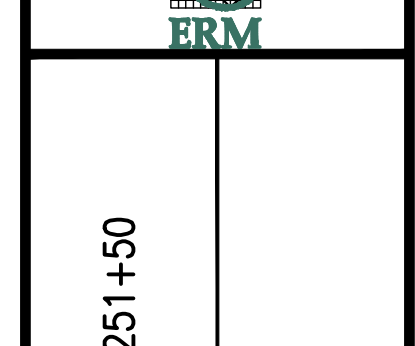
NOTES:

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

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

NO.	DATE	DWN.	CHKD.	APPVD.	DESCRIPTION



42" AP-1 PIPELINE
CONSTRUCTION ALIGNMENT STA 8246+00 TO 8251+50
NELSON COUNTIES, VIRGINIA

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

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



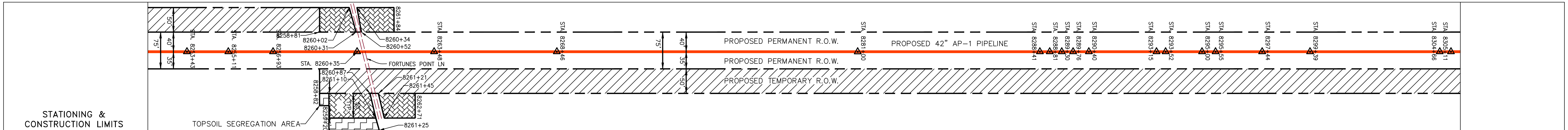
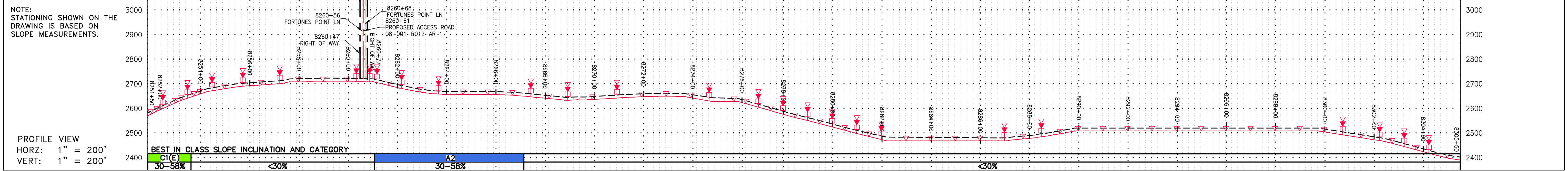
SOUTHPOINTE OFFICE
6000 TOWN CENTER BLVD.
CANONSBURG, PA 15317
724-873-3545

PROJECT NO./DASH NO.
140468

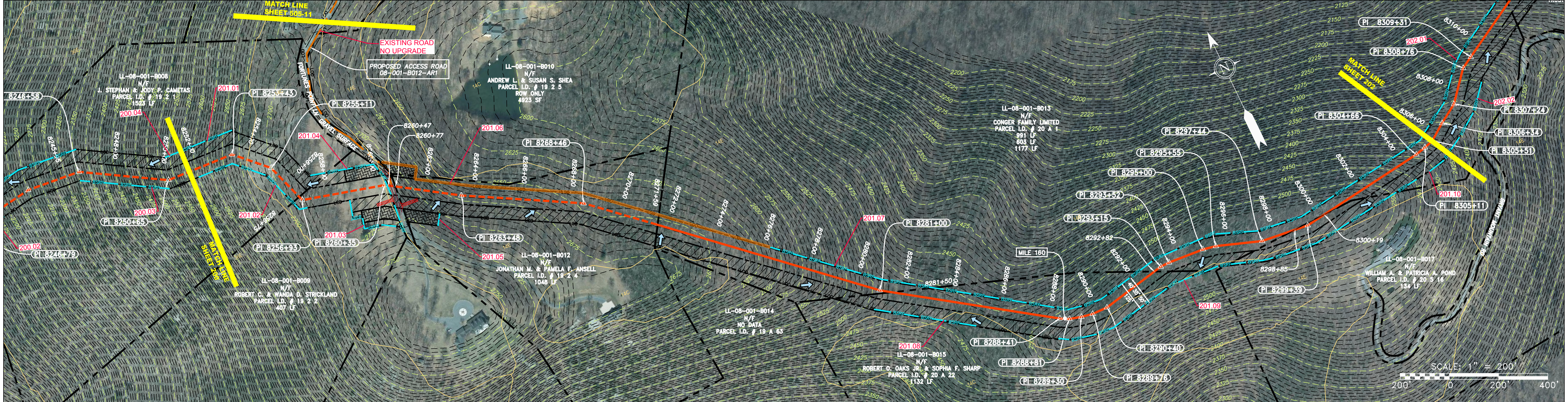
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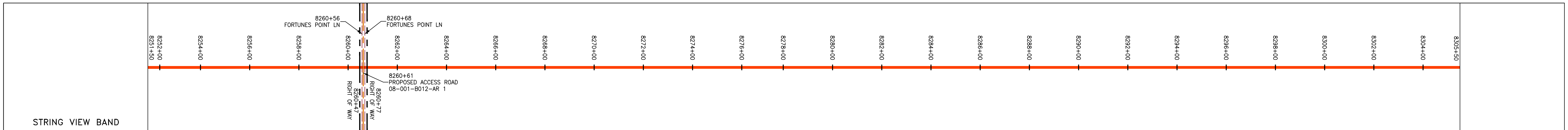
200 OF 344



Stationing	Property Ownership
8251+50 - 8256+75	LL-08-001-8008 N/F J. STEPHAN & JODY P. CAMETAS PARCEL I.D. # 19 2 1 1523 LF
8256+75 - 8260+17	LL-08-001-8009 N/F ROBERT C. & WANDA A. STRICKLAND PARCEL I.D. # 19 2 2 407 LF
8260+17 - 8261+25	LL-08-001-8010 N/F ANDREW L. & SUSAN S. SHEA PARCEL I.D. # 19 2 5 4923 SF
8261+25 - 8271+99	LL-08-001-8012 N/F JONATHAN M. & PAMELA F. ANSELL PARCEL I.D. # 19 2 4 1048 LF
8271+99 - 8281+18	LL-08-001-8013 N/F CONGER FAMILY LIMITED PARCEL I.D. # 20 A 1 991 LF
8281+18 - 8292+33	LL-08-001-8015 N/F ROBERT O. OAKS JR. & SOPHIA F. SHARP PARCEL I.D. # 20 A 22 1132 LF
8292+33 - 8300+19	LL-08-001-8013 N/F CONGER FAMILY LIMITED PARCEL I.D. # 20 A 1 603 LF LL-08-001-8017 N/F WILLIAM A. & PATRICIA A. POND PARCEL I.D. # 20 S 16 134 LF
8300+19 - 8305+50	LL-08-001-8013 N/F CONGER FAMILY LIMITED PARCEL I.D. # 20 A 1 1177 LF



Stationing	Property Ownership
8251+50 - 8254+00	LL-08-001-8008 N/F J. STEPHAN & JODY P. CAMETAS PARCEL I.D. # 19 2 1 1523 LF
8254+00 - 8258+00	LL-08-001-8009 N/F ROBERT C. & WANDA A. STRICKLAND PARCEL I.D. # 19 2 2 407 LF
8258+00 - 8260+17	LL-08-001-8009 N/F ROBERT C. & WANDA A. STRICKLAND PARCEL I.D. # 19 2 2 407 LF
8260+17 - 8261+25	LL-08-001-8010 N/F ANDREW L. & SUSAN S. SHEA PARCEL I.D. # 19 2 5 4923 SF
8261+25 - 8271+99	LL-08-001-8012 N/F JONATHAN M. & PAMELA F. ANSELL PARCEL I.D. # 19 2 4 1048 LF
8271+99 - 8281+18	LL-08-001-8013 N/F CONGER FAMILY LIMITED PARCEL I.D. # 20 A 1 991 LF
8281+18 - 8292+33	LL-08-001-8015 N/F ROBERT O. OAKS JR. & SOPHIA F. SHARP PARCEL I.D. # 20 A 22 1132 LF
8292+33 - 8300+19	LL-08-001-8013 N/F CONGER FAMILY LIMITED PARCEL I.D. # 20 A 1 603 LF LL-08-001-8017 N/F WILLIAM A. & PATRICIA A. POND PARCEL I.D. # 20 S 16 134 LF
8300+19 - 8305+50	LL-08-001-8013 N/F CONGER FAMILY LIMITED PARCEL I.D. # 20 A 1 1177 LF



LEGEND	
	PROPERTY LINE
	FENCE
	STREAM
	EXISTING GAS PIPELINE
	OVERHEAD UTILITY LINES
	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
	AREA OF NO DISTURBANCE
	WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)
	TOPSOIL SEGREGATION AREA
	PROPOSED TEMPORARY R.O.W.
	UTILITY POLE

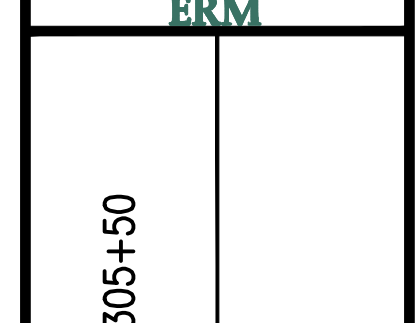
	PERMANENT WATERBAR/SLOPE BREAKER
	TEMPORARY WATERBAR/SLOPE BREAKER
	TRENCH BREAKER/PLUG
	STREAM CROSSING
	USFWS STREAM CROSSING WITH ENHANCED CONTROLS
	SLOPE DIRECTION
	CONSTRUCTION ENTRANCE WITH DITCH
	CULVERT AS NEEDED
	CULVERT WATERBAR
	LOD
	BSRF
	LIMIT OF DISTURBANCE
	BELTED SILT RETENTION FENCE (BSRF)
	COMPOST FILTER SOCK
	SEDIMENT BARRIER IDENTIFICATION
	CULTIVATOR IDENTIFICATION
	ORANGE SAFETY FENCE
	ROADSIDE DITCH
	SOIL TYPE
	TYPICAL BIG 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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- THE CONSTRUCTION RIGHT-OF-WAY (ROW) WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS IN ACCORDANCE WITH SECTION V.4.S FEDERAL ENERGY REGULATORY COMMISSION (FERC) UPLAND EROSION CONTROL, REVEGETATION, AND MAINTENANCE PLAN, SECTION V.4.S. 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.

GAI CAD FILE NO. \NTG-FS1\THRASHER\050-5159 - GAI, INC. - SERP - MAPPING\SURVEY\DRAWING\SEC 3\RR SHEETS 199-205 (56-60).DWG

NO.	DATE	BY	CHKD.	APPD.	DESCRIPTION



42" AP-1 PIPELINE
CONSTRUCTION ALIGNMENT STA 8251+50 TO 8305+50
 NELSON COUNTY, VIRGINIA
ATLANTIC COAST PIPELINE, LLC
 C/O DOMINION TRANSMISSION, INC.
 925 WHITE OAKS BLVD., BRIDGEPORT, WV 26330

SCALE: AS SHOWN
 DATE: 3/24/17
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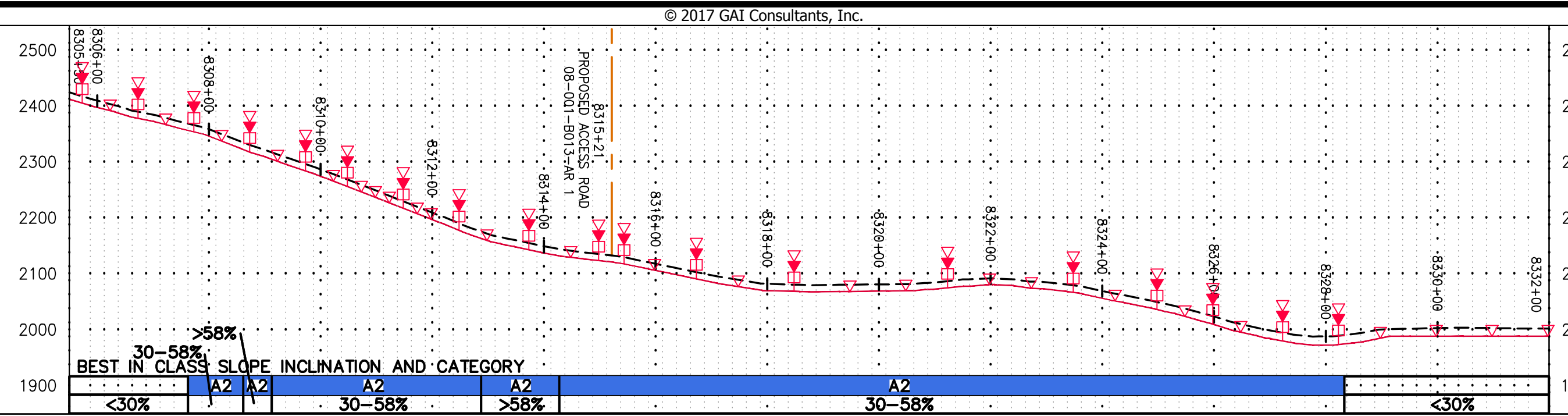


PROJECT NO./DASH NO.	140468
TASK NO. SUB TASK NO.	005 00
GROUP ID DRAWING NO.	D E201
1 OF 344	

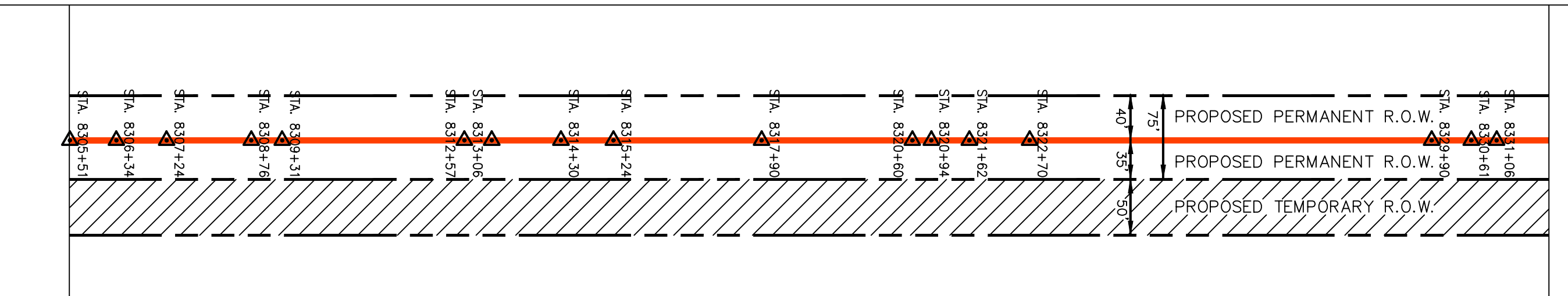
GAI CAD FILE NO. \\\TTC-FS1\THRASHER\050-5159 - GAI, INC. - GAI - THRASHER - SERP - MAPPING\SURVEY\DRAWING\SEC 3\RR SHEETS 199-205 (56-60).DWG

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

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

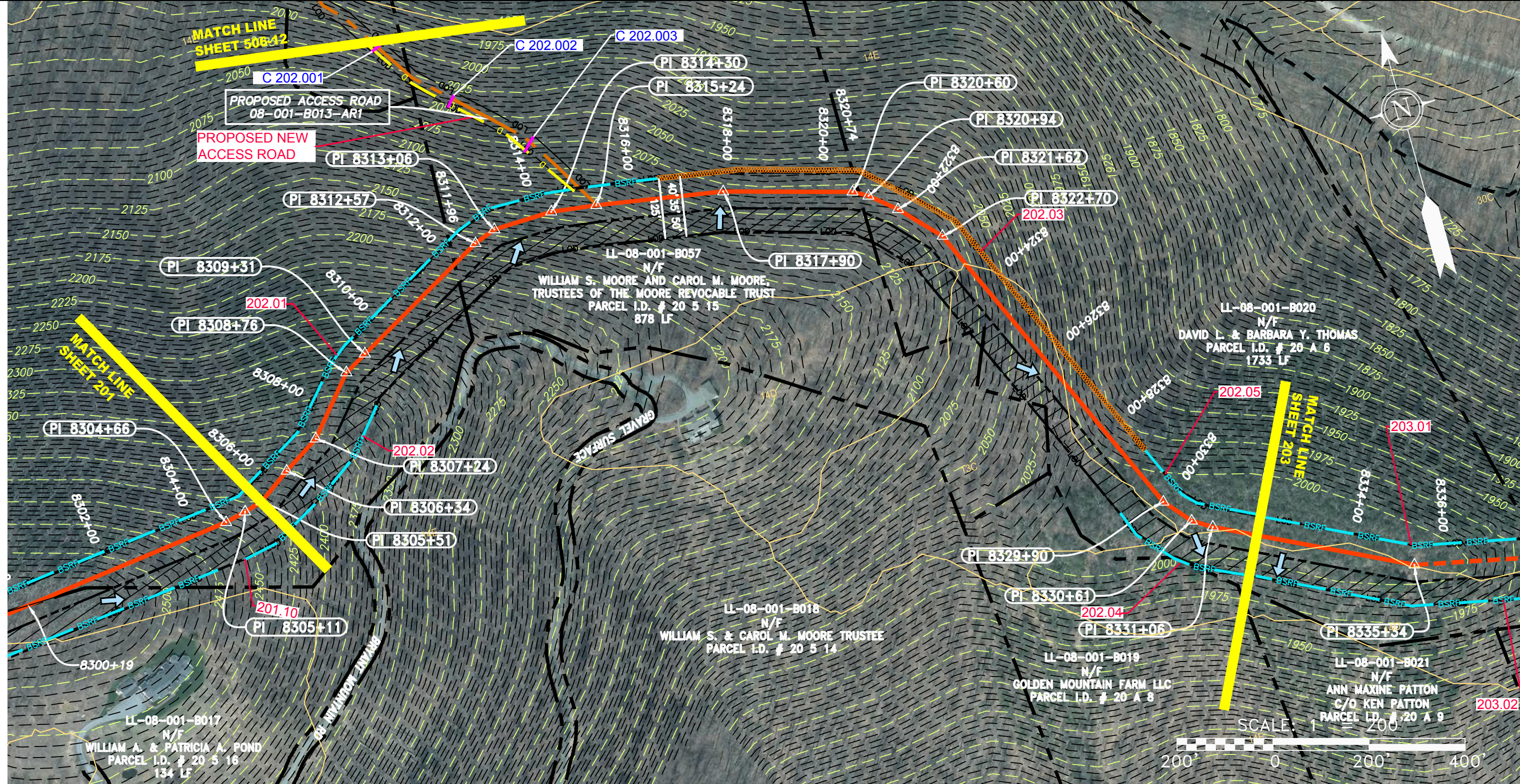


STATIONING &
CONSTRUCTION LIMITS

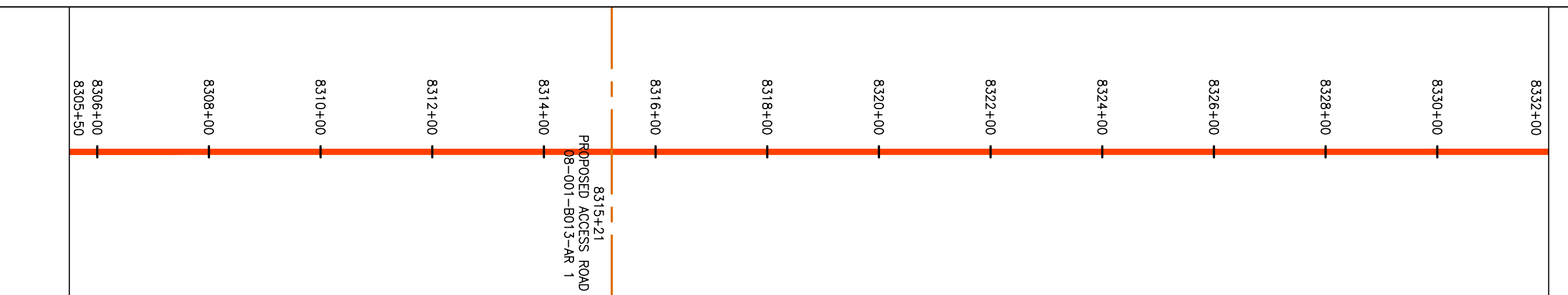


PROPERTY OWNERSHIP

8300+19	LL-08-001-B013 N/F CONGER FAMILY LIMITED PARCEL I.D. # 20 A 1 1225 LF	8311+86	LL-08-001-B057 N/F WILLIAM S. MOORE AND CAROL M. MOORE, TRUSTEES OF THE MOORE REVOCABLE TRUST PARCEL I.D. # 20 5 15 878 LF	8320+74	LL-08-001-B020 N/F DAVID L. & BARBARA Y. THOMAS PARCEL I.D. # 20 A 6 1733 LF	8339+07
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PIPE SPECIFICATION



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

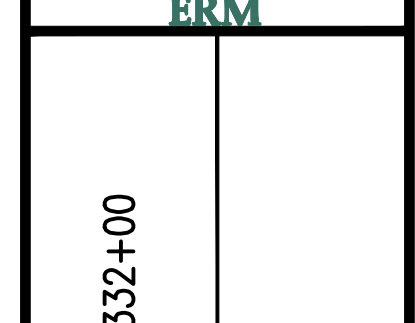
NOTE: THE PE SEAL AND SIGNATURE APPLIES ONLY TO THE
E&S CONTROL DESIGN COMPLETED BY ERM (SEE NOTE 12).

	PERMANENT WATERBAR/SLOPE BREAKER		LIMIT OF DISTURBANCE
	TEMPORARY WATERBAR/SLOPE BREAKER		BELTED SILT RETENTION FENCE (BSRF)
	TRENCH BREAKER/PLUG		COMPOST FILTER SOCK
	STREAM CROSSING		SEDIMENT BARRIER IDENTIFICATION
	USFWS STREAM CROSSING WITH ENHANCED CONTROLS		ORANGE SAFETY FENCE
	SLOPEWALL		ROADSIDE DITCH
	SLOPEWAY		SOIL TYPE
	SLOPE DIRECTION		TYPICAL BIG SLOPE CATEGORY SLOPE INCLINATION
	CONSTRUCTION ENTRANCE WITH DITCH		
	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.
- 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	DWN.	CHKD.	APPD.	DESCRIPTION



42" AP-1 PIPELINE
CONSTRUCTION ALIGNMENT STA 8305+50 TO 8332+00
NELSON COUNTY, VIRGINIA

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

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

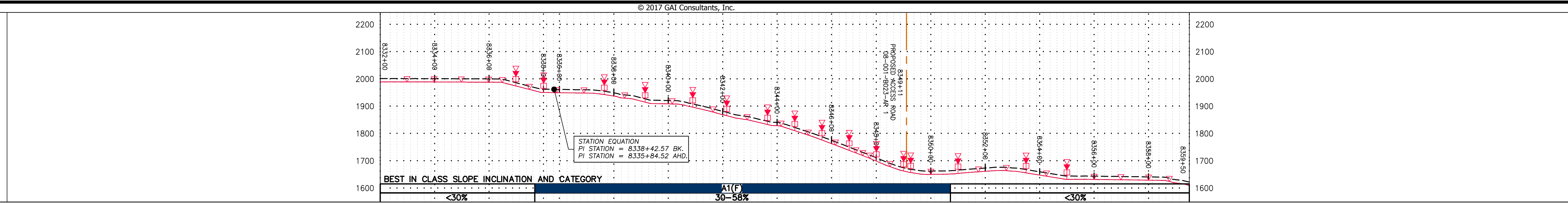


PROJECT NO./DASH NO.	140468
TASK NO. SUB TASK NO.	005 00
GROUP ID DRAWING NO.	D E202
202 OF 344	

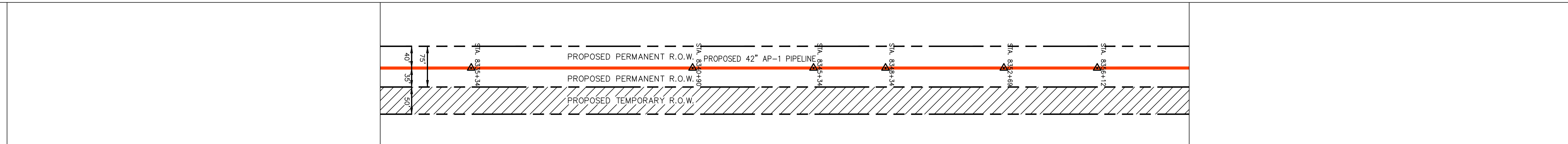
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NOTE:
STATIONING SHOWN ON THE
DRAWING IS BASED ON
SLOPE MEASUREMENTS.

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

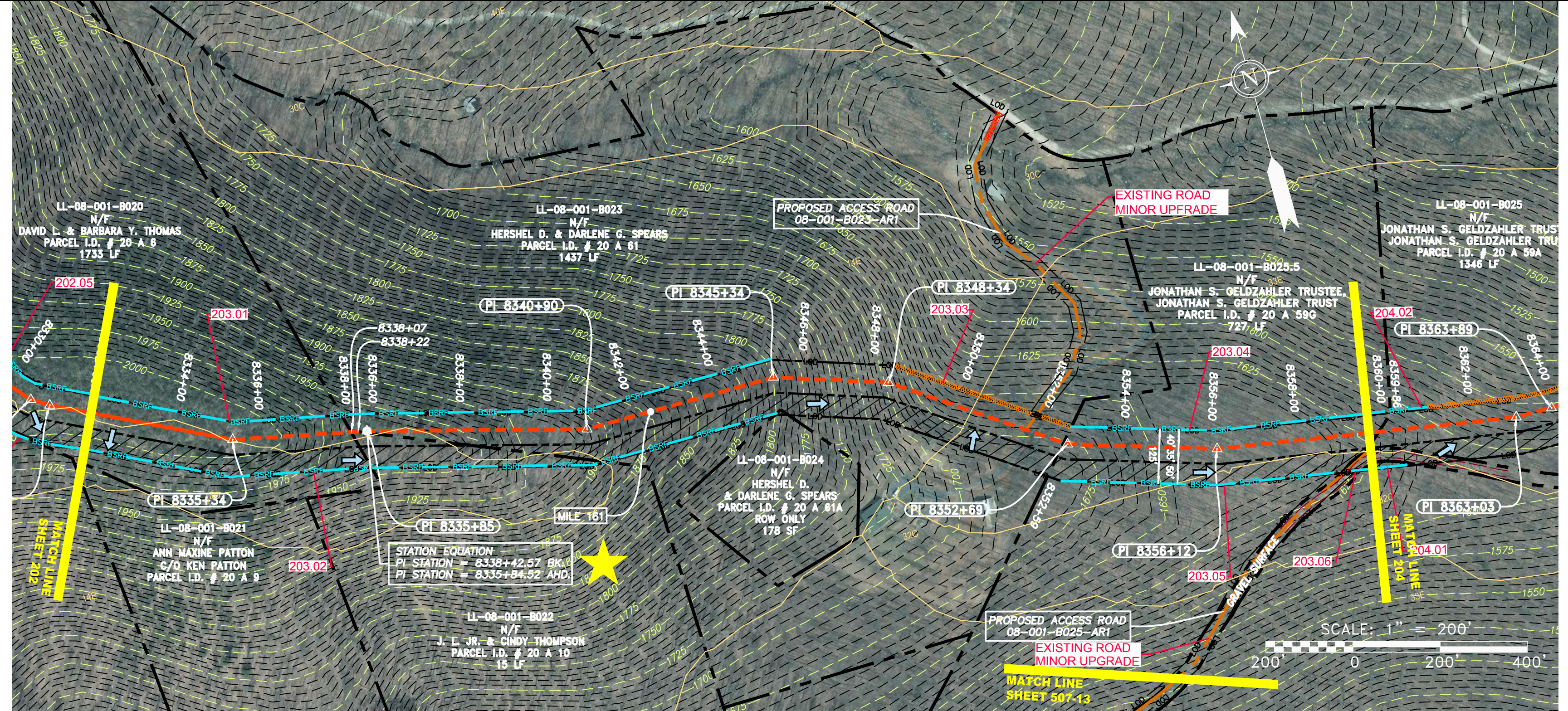


STATIONING &
CONSTRUCTION LIMITS



PROPERTY OWNERSHIP

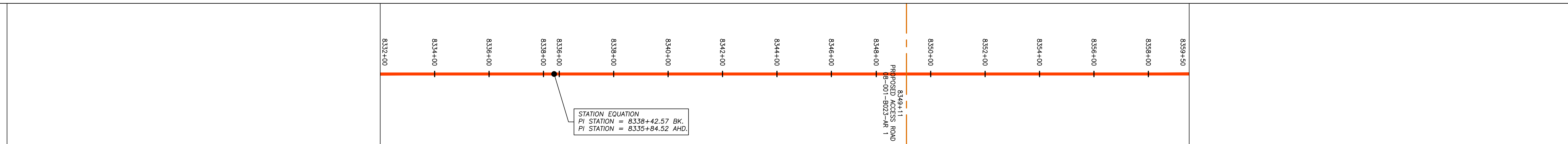
LL-08-001-8020 N/F DAVID L. & BARBARA Y. THOMAS PARCEL I.D. # 20 A 6 1733 LF	LL-08-001-8022 N/F J. L. JR. & CINDY THOMPSON PARCEL I.D. # 20 A 10 15 LF	LL-08-001-8023 N/F HERSHEL D. & DARLENE G. SPEARS PARCEL I.D. # 20 A 61 1437 LF	LL-08-001-8024 N/F HERSHEL D. & DARLENE G. SPEARS PARCEL I.D. # 20 A 61A ROW ONLY 178 SF	LL-08-001-8025.5 N/F JONATHAN S. GELDZAHLER TRUSTEE, JONATHAN S. GELDZAHLER TRUST PARCEL I.D. # 20 A 59G 727 LF
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PIPE SPECIFICATION

8332+00	8334+00	8336+00	8338+00	8340+00	8342+00	8344+00	8346+00	8348+00	8350+00	8352+00	8354+00	8356+00	8358+00	8359+50
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STRING VIEW BAND



LEGEND

- PROPERTY LINE
- FENCE
- STREAM
- EXISTING GAS PIPELINE
- OVERHEAD UTILITY LINES
- PROPOSED GAS PIPELINE
- PROPOSED GAS PIPELINE (NO GROUND SURVEY)
- STORM SEWER
- UNDERGROUND ELECTRIC
- WATER LINE
- SANITARY SEWER
- EDGE OF GRAVEL
- PROPOSED PERMANENT EASEMENT
- PROPOSED PERMANENT R.O.W.
- UTILITY POLE
- EXTRA WORK SPACE
- TOPSOIL SEGREGATION AREA
- AREA OF NO DISTURBANCE
- WETLAND
- NOTE: THE PE SEAL AND SIGNATURE APPLIES ONLY TO THE E&S CONTROL DESIGN COMPLETED BY ERM (SEE NOTE 12).
- 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
- LOD
- BSRF
- 111.03
- C 111.01
- SOIL TYPE
- TYPICAL BIG SLOPE CATEGORY
- LIMIT OF DISTURBANCE
- BELTED SILT RETENTION FENCE (BSRF)
- COMPOST FILTER SOCK
- SEDIMENT BARRIER IDENTIFICATION
- CULVERT IDENTIFICATION
- ORANGE SAFETY FENCE
- ROADSIDE DITCH

NOTES:

- COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY - UTM WITH NAD83 DATUM, ZONE 17, US SURVEY FOOT, CENTRAL MERIDIAN 81° W, 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.
- IMAGERY TAKEN FROM GOOGLE EARTH.
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NO.	DATE	DWN.	CHKD.	APPVD.	DESCRIPTION

Daniel R. Goldstein
 Lic. No. 047436
 PROFESSIONAL ENGINEER

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

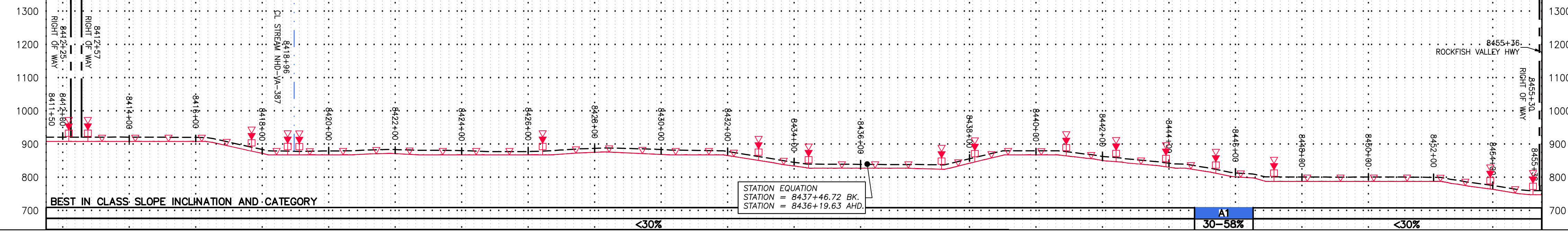
SCALE:	AS SHOWN
DATE:	3/24/17
DRAWN:	GPT
CHECKED:	DLH
APPROVED:	NET

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

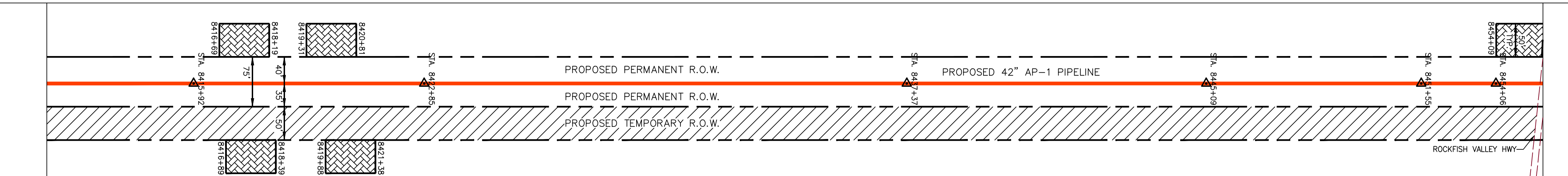
PROJECT NO./DASH NO.	140468	
TASK NO.	005	00
GROUP ID	D	E203
203 OF 344		

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

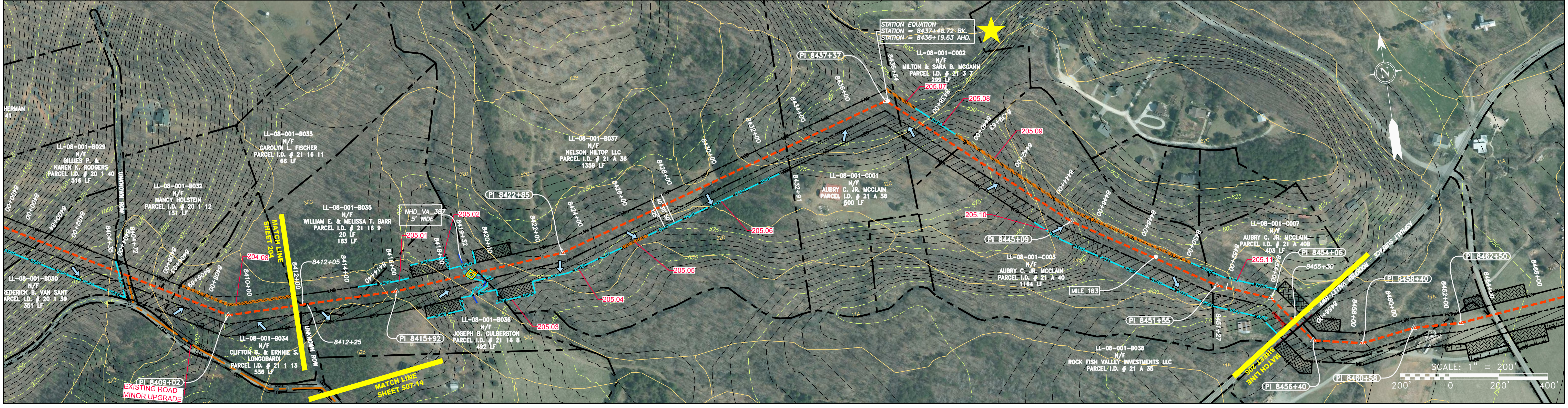
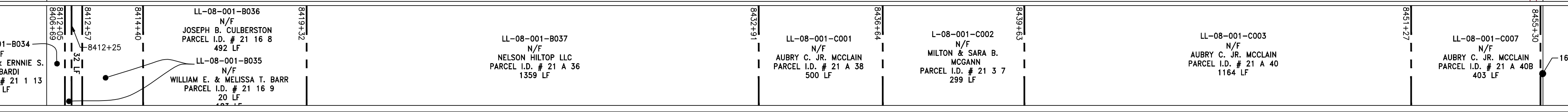
PROFILE VIEW
 HORZ: 1" = 200'
 VERT: 1" = 200'



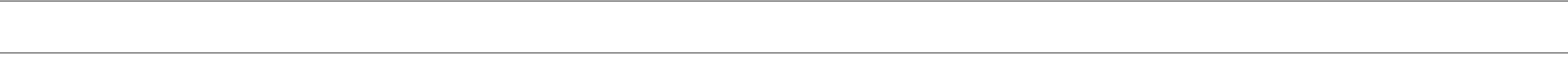
STATIONING & CONSTRUCTION LIMITS



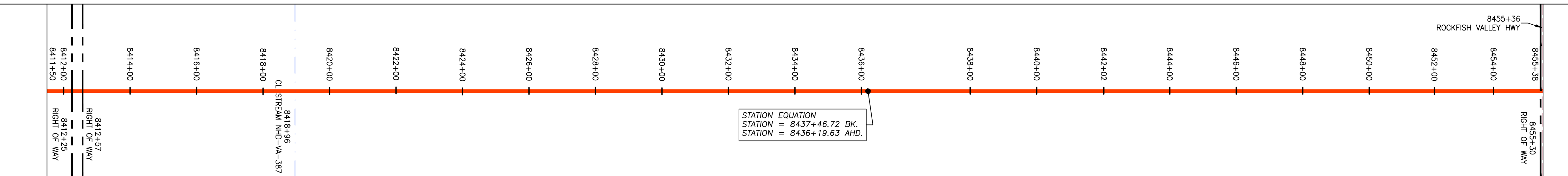
PROPERTY OWNERSHIP



PIPE SPECIFICATION



STRING VIEW BAND



LEGEND

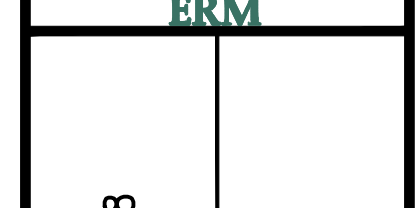
— X — X —	PROPERTY LINE	— E —	STORM SEWER	[Hatched Box]	EXTRA WORK SPACE	[Hatched Box]	TOPSOIL SEGREGATION AREA
— W —	FENCE	— W —	UNDERGROUND ELECTRIC	[Dotted Box]	AREA OF NO DISTURBANCE	[Hatched Box]	PROPOSED TEMPORARY R.O.W.
— G —	STREAM	— S —	WATER LINE	[Green Box]	WETLAND	[Circle]	UTILITY POLE
—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

[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]	111.03	[Blue Line]	COMPOST FILTER SOCK
[Red Triangle]	STREAM CROSSING	[Blue Line]	C 111.001	[Blue Line]	SEDIMENT BARRIER IDENTIFICATION
[Red Triangle]	USFWS STREAM CROSSING WITH ENHANCED CONTROLS	[Blue Line]	[Blue Line]	[Blue Line]	CULVERT IDENTIFICATION
[Red Triangle]	ROADSIDE DITCH	[Blue Line]	[Blue Line]	[Blue Line]	ORANGE SAFETY FENCE
[Red Triangle]	SEEP	[Blue Line]	[Blue Line]	[Blue Line]	ROADSIDE DITCH
[Red Triangle]	SLOPE DIRECTION	[Blue Line]	[Blue Line]	[Blue Line]	SOIL TYPE
[Red Triangle]	CONSTRUCTION ENTRANCE WITH DITCH	[Blue Line]	[Blue Line]	[Blue Line]	TYPICAL BIG SLOPE CATEGORY SLOPE INCLINATION
[Red Triangle]	CULVERT AS NEEDED	[Blue Line]	[Blue Line]	[Blue Line]	
[Red Triangle]	CULVERT WATERBAR	[Blue Line]	[Blue Line]	[Blue Line]	

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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NO.	DATE	BY	CHKD.	APPD.	DESCRIPTION



42" AP-1 PIPELINE
 CONSTRUCTION ALIGNMENT STA 8411+50 TO 8455+38
 NELSON COUNTY, VIRGINIA

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

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



PROJECT NO./DASH NO.	140468
TASK NO. SUB TASK NO.	005 00
GROUP ID DRAWING NO.	D E205
205 OF 344	