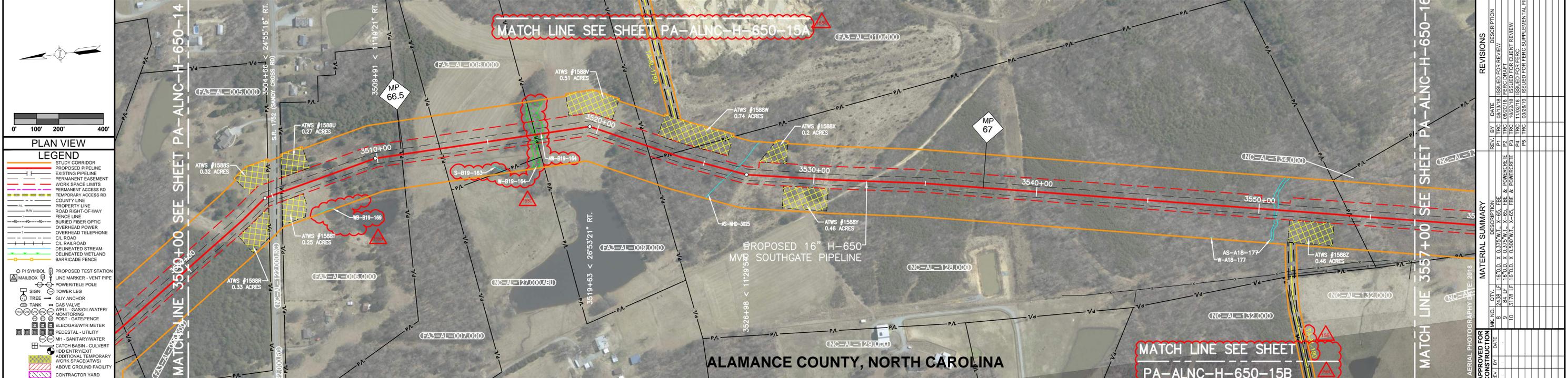


RIGHT-OF-WAY & OWNERSHIP DATA		FA34-AL-005.000	NC-AL-122.000.RC S.R.1752 (SANDY CROSS RD)	FA34-AL-006.000	FA34-AL-007.000	FA34-AL-008.000	FA34-AL-009.000	FA34-AL-010.000	NC-AL-128.000	NC-AL-134.000
		483 LF	63 LF	564 LF	175 LF	432 LF	515 LF	115 LF	3063 LF	290 LF
DESIGN	PIPE / COATING	8								
	SLOPE DISTANCE									
	CLASS LOCATION / HCA	2								
ENVIRONMENTAL	CONSTRUCTION EXCLUSION									
	WETLAND / STREAM	W-B19-164 9 LF			W-B19-164 32 LF		AS-NHD-3025 5 LF		AS-A18-177 15 LF	



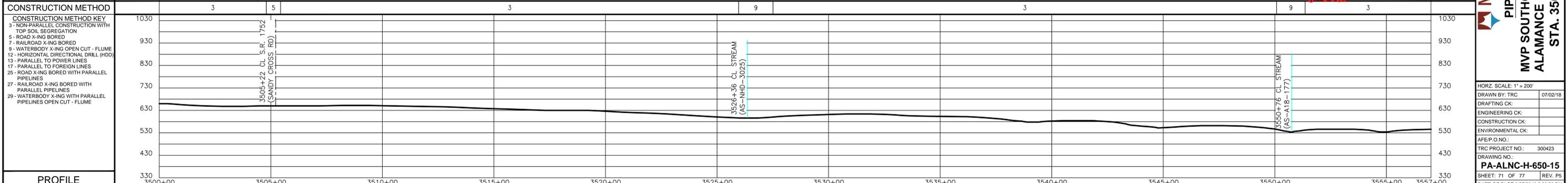
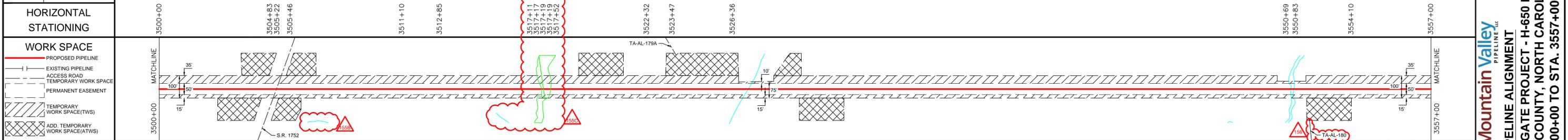
PLAN VIEW

LEGEND

- STUDY CORRIDOR
- PROPOSED PIPELINE
- EXISTING PIPELINE
- PERMANENT EASEMENT
- WORK SPACE LIMITS
- PERMANENT ACCESS RD
- TEMPORARY ACCESS RD
- COUNTY LINE
- PROPERTY LINE
- ROAD RIGHT-OF-WAY
- FENCE LINE
- BURIED FIBER OPTIC
- OVERHEAD TELEPHONE
- CL ROAD
- RAILROAD
- DELINEATED STREAM
- DELINEATED WETLAND
- BARRICADE FENCE
- PROPOSED TEST STATION
- MAILBOX
- LINE MARKER - VENT PIPE
- POWER TELE POLE
- TOWER LEG
- TREE
- GUY ANCHOR
- TANK
- GAS VALVE
- WELL - GASOLINE/WATER
- MONITORING
- POST - GATE FENCE
- ELEC/GAS/WTR METER
- PEDESTAL - UTILITY
- MH - SANITARY WATER
- CATCH BASIN - CULVERT
- ROAD ENTRY EXIT
- ADDITIONAL TEMPORARY WORK SPACE(TWS)
- ABOVE GROUND FACILITY
- CONTRACTOR YARD

REFERENCE DRAWINGS

DRAWING NO.	DESCRIPTION
PA-ALNC-H-650-15A	ACCESS ROAD ALIGNMENT SHEET
PA-ALNC-H-650-15B	ACCESS ROAD ALIGNMENT SHEET



ISSUED FOR FERC SUPPLEMENTAL FILING



REVISIONS

REV. NO.	DATE	DESCRIPTION
1	08/13/18	ISSUED FOR REVIEW
2	08/20/18	FERC DRAFTER CLIENT REVIEW
3	11/02/18	ISSUED FOR FERC
4	03/20/19	ISSUED FOR FERC SUPPLEMENTAL FILING

MATERIAL SUMMARY

QTY.	DESCRIPTION
10.00	X 0.375" W.T. X-65 FIBER
2438 LF	16.00" O.D. X 0.375" W.T. X-65 FIBER & POWERGRATE
84 LF	16.00" O.D. X 0.375" W.T. X-65 FIBER & POWERGRATE
10	378 LF 16.00" O.D. X 0.375" W.T. X-65 FIBER & POWERGRATE

APPROVED FOR CONSTRUCTION

APPROVED FOR BIDDING

APPROVED FOR FERC

Mountain Valley PIPELINE LLC

PIPELINE ALIGNMENT

MVP SOUTHGATE PROJECT - H-650 LINE

ALAMANCE COUNTY, NORTH CAROLINA

STA. 3500+00 TO STA. 3557+00

HORIZ. SCALE: 1" = 200'

DRAWN BY: TRC 07/02/18

DRAFTING CK:

ENGINEERING CK:

CONSTRUCTION CK:

ENVIRONMENTAL CK:

A/E/P.O. NO.:

TRC PROJECT NO.: 300423

DRAWING NO.:

PA-ALNC-H-650-15

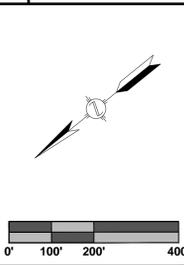
SHEET: 71 OF 77 REV. P5

DATE OF PLOT: 3/27/2019 5:23:59 PM

RIGHT-OF-WAY & OWNERSHIP DATA

DESIGN
PIPE / COATING
SLOPE DISTANCE
CLASS LOCATION / HCA

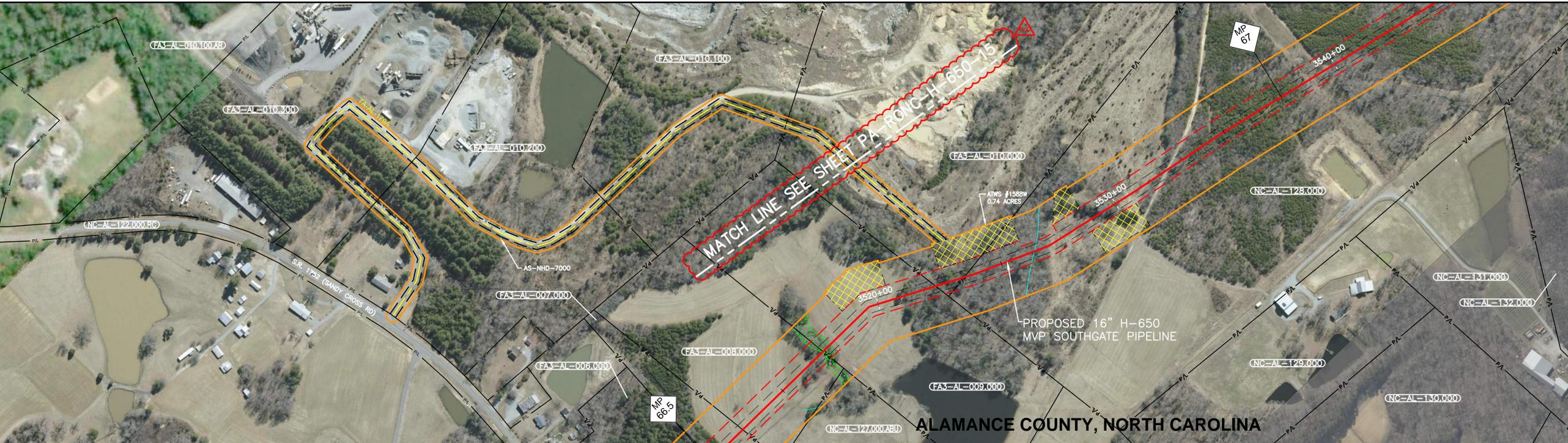
ENVIRONMENTAL
CONSTRUCTION EXCLUSION
WETLAND / STREAM



PLAN VIEW

LEGEND

- STUDY CORRIDOR
- PROPOSED PIPELINE
- EXISTING PIPELINE
- PERMANENT EASEMENT
- WORK SPACE LIMITS
- PERMANENT ACCESS RD
- TEMPORARY ACCESS RD
- COUNTY LINE
- PROPERTY LINE
- ROAD RIGHT-OF-WAY
- FENCE LINE
- BURIED FIBER OPTIC
- OVERHEAD POWER
- OVERHEAD TELEPHONE
- CL ROAD
- RAILROAD
- DELINEATED STREAM
- DELINEATED WETLAND
- PI SYMBOL
- MAILBOX
- LINE MARKER - VENT PIPE
- POWER/TELE POLE
- TOWER LEG
- GAS VALVE
- WELL - WATER
- POST - GATE/FENCE
- ELEC/GAS/WTR METER
- PEDESTAL - UTILITY
- MH - SANITARY/WATER
- MAINLINE VALVE
- HDD ENTRY/EXIT
- ADDITIONAL TEMPORARY WORK SPACE(ATWS)
- ABOVE GROUND FACILITY
- CONTRACTOR YARD



ISSUED FOR FERC SUPPLEMENTAL FILING

REFERENCE DRAWINGS

DRAWING NO.	DESCRIPTION
PA-ALNC-H-650-15	ALIGNMENT SHEET

HORIZONTAL STATIONING

WORK SPACE

- PROPOSED PIPELINE
- EXISTING PIPELINE
- ACCESS ROAD
- TEMPORARY WORK SPACE
- PERMANENT EASEMENT
- TEMPORARY WORK SPACE(TWS)
- ADD. TEMPORARY WORK SPACE(ATWS)

CONSTRUCTION METHOD

CONSTRUCTION METHOD KEY

- 3 - NON-PARALLEL CONSTRUCTION WITH TOP SOIL SEGREGATION
- 5 - ROAD X-ING BORED
- 7 - RAILROAD X-ING BORED
- 9 - WATERBODY X-ING OPEN CUT - FLUME
- 12 - HORIZONTAL DIRECTIONAL DRILL (HDD)
- 13 - PARALLEL TO POWER LINES
- 17 - PARALLEL TO FOREIGN LINES
- 25 - ROAD X-ING BORED WITH PARALLEL PIPELINES
- 27 - RAILROAD X-ING BORED WITH PARALLEL PIPELINES
- 29 - WATERBODY X-ING WITH PARALLEL PIPELINES OPEN CUT - FLUME

PROFILE



REVISIONS

REV. NO.	DATE	DESCRIPTION
P1	03/28/18	ISSUED FOR FERC SUPPLEMENTAL FILING

MATERIAL SUMMARY

ITEM NO.	QTY.	DESCRIPTION

APPROVED FOR CONSTRUCTION

REV. BY	DATE

APPROVED FOR FERC

REV. BY	DATE

APPROVED FOR BIDDING

REV. BY	DATE

Mountain Valley PIPELINE LLC

ACCESS ROAD

MVP SOUTHGATE PROJECT - H-650 LINE

ALAMANCE COUNTY, NORTH CAROLINA

ACCESS ROAD TA-AL-179A

HORZ. SCALE: 1" = 200'

DRAWN BY: TRC 07/02/18

DRAFTING CK:

ENGINEERING CK:

CONSTRUCTION CK:

ENVIRONMENTAL CK:

AFE/PO NO.:

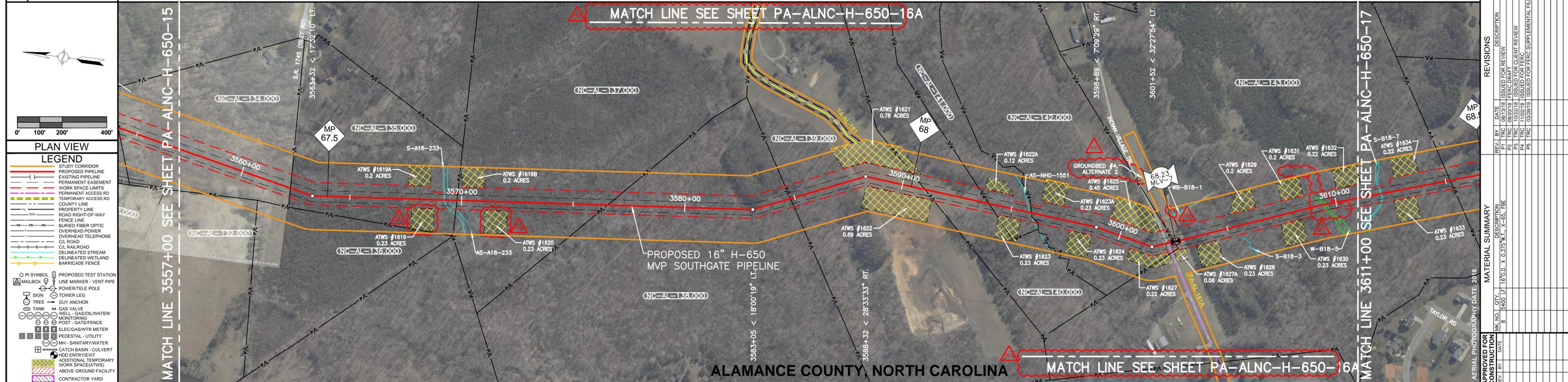
TRC PROJECT NO.: 300423

DRAWING NO.: **PA-ALNC-H-650-15A**

REV. P1

DATE OF PLOT: 3/27/2019 5:26:49 PM

RIGHT-OF-WAY & OWNERSHIP DATA		NC-AL-134.000	NC-AL-135.000	NC-AL-137.000	NC-AL-138.000	NC-AL-139.000	NC-AL-140.000	NC-AL-141.000	NC-AL-142.000	NC-AL-143.000	
		528 LF	751 LF	675 LF	827 LF	622 LF	293 LF	195 LF	663 LF	846 LF	
DESIGN	PIPE / COATING	8									
ENVIRONMENTAL	SLOPE DISTANCE										
	CLASS LOCATION / HCA	1	2	1	2	1	2	1	2	3	
ENVIRONMENTAL	CONSTRUCTION EXCLUSION										
	WETLAND / STREAM	S-A18-233 24 LF			AS-NHD-1551 5 LF				W-B18-5 16 LF		



DRAWING NO.	DESCRIPTION
133XXXX-100-01	PROPOSED MAIN LINE VALVE FOOT PLAN
PA-ALNC-H-650-16A	ACCESS ROAD ALIGNMENT SHEET

APPROVED FOR CONSTRUCTION	APPROVED FOR BIDDING	APPROVED FOR FERC
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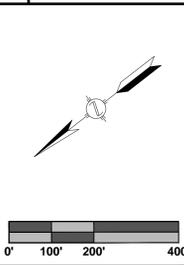
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RIGHT-OF-WAY & OWNERSHIP DATA

DESIGN
PIPE / COATING
SLOPE DISTANCE
CLASS LOCATION / HCA

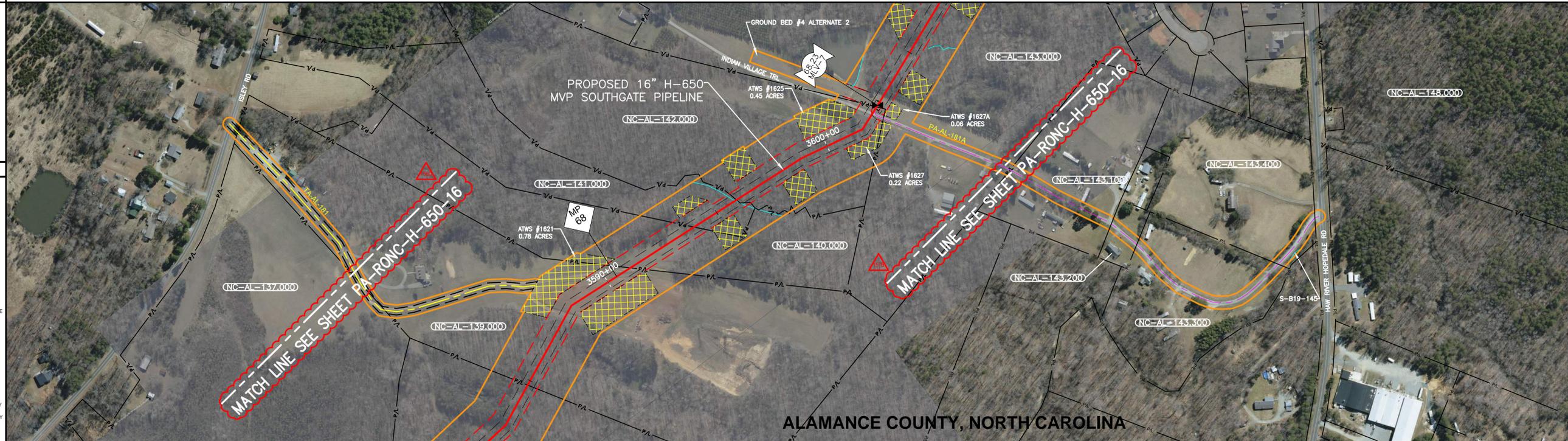
ENVIRONMENTAL
CONSTRUCTION EXCLUSION
WETLAND / STREAM



PLAN VIEW

LEGEND

- STUDY CORRIDOR
- PROPOSED PIPELINE
- EXISTING PIPELINE
- PERMANENT EASEMENT
- WORK SPACE LIMITS
- PERMANENT ACCESS RD
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- PEDESTAL - UTILITY
- MH - SANITARY/WATER
- MAINLINE VALVE
- HDD ENTRY/EXIT
- ADDITIONAL TEMPORARY WORK SPACE(ATWS)
- ABOVE GROUND FACILITY
- CONTRACTOR YARD



REFERENCE DRAWINGS

DRAWING NO.	DESCRIPTION
PA-ALNC-H-650-16	ALIGNMENT SHEET

HORIZONTAL STATIONING

WORK SPACE

- PROPOSED PIPELINE
- EXISTING PIPELINE
- ACCESS ROAD
- TEMPORARY WORK SPACE
- PERMANENT EASEMENT
- TEMPORARY WORK SPACE (TWS)
- ADD. TEMPORARY WORK SPACE (ATWS)

CONSTRUCTION METHOD

CONSTRUCTION METHOD KEY

- 3 - NON-PARALLEL CONSTRUCTION WITH TOP SOIL SEGREGATION
- 5 - ROAD X-ING BORED
- 7 - RAILROAD X-ING BORED
- 9 - WATERBODY X-ING OPEN CUT - FLUME
- 12 - HORIZONTAL DIRECTIONAL DRILL (HDD)
- 13 - PARALLEL TO POWER LINES
- 17 - PARALLEL TO FOREIGN LINES
- 25 - ROAD X-ING BORED WITH PARALLEL PIPELINES
- 27 - RAILROAD X-ING BORED WITH PARALLEL PIPELINES
- 29 - WATERBODY X-ING WITH PARALLEL PIPELINES OPEN CUT - FLUME

PROFILE

ISSUED FOR FERC SUPPLEMENTAL FILING



REVISIONS

REV. BY	DATE	DESCRIPTION
P1	TRC 03/28/18	ISSUED FOR FERC SUPPLEMENTAL FILING

MATERIAL SUMMARY

DESCRIPTION	QTY.

APPROVED FOR CONSTRUCTION

REV. BY	DATE

APPROVED FOR FERC

REV. BY	DATE

APPROVED FOR CONSTRUCTION

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APPROVED FOR FERC

REV. BY	DATE

Mountain Valley PIPELINE LLC

ACCESS ROAD

MVP SOUTHGATE PROJECT - H-650 LINE

ALAMANCE COUNTY, NORTH CAROLINA

ACCESS ROAD TA-AL-181

HORZ. SCALE: 1" = 200'

DRAWN BY: TRC 07/02/18

DRAFTING CK:

ENGINEERING CK:

CONSTRUCTION CK:

ENVIRONMENTAL CK:

AFE/PO NO.:

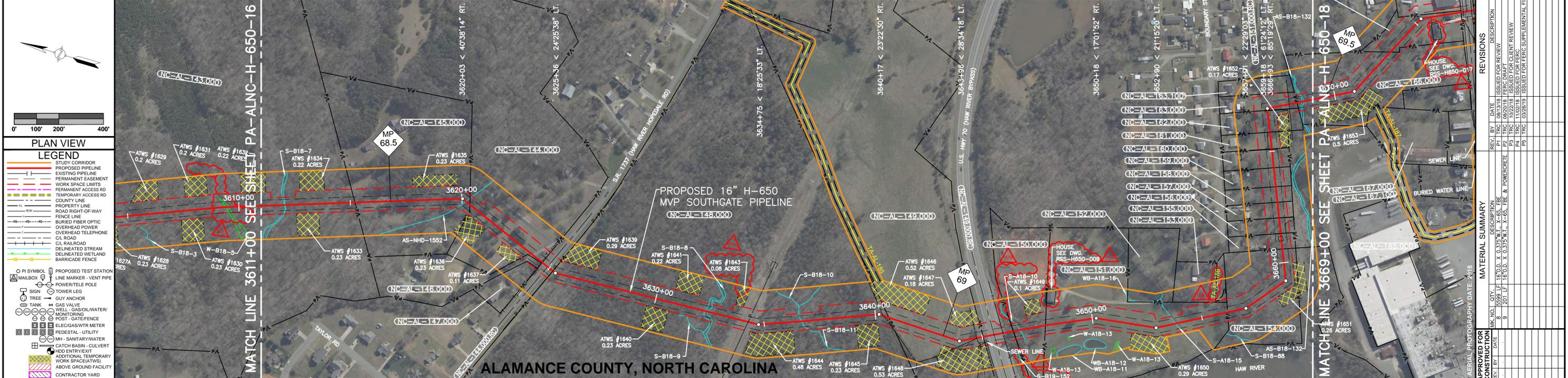
TRC PROJECT NO.: 300423

DRAWING NO.: **PA-ALNC-H-650-16A**

REV. P1

DATE OF PLOT: 3/27/2019 5:27:24 PM

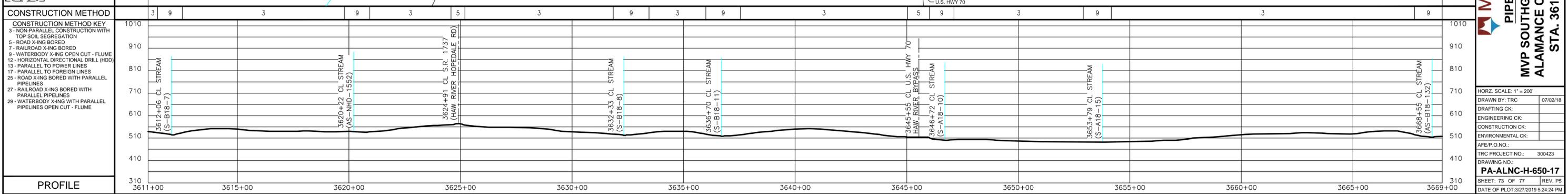
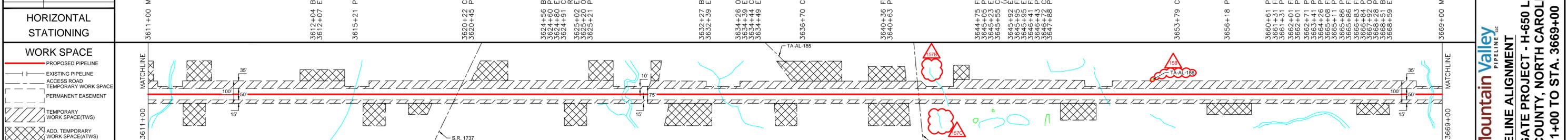
RIGHT-OF-WAY & OWNERSHIP DATA		3611+00	NC-AL-143.000	NC-AL-145.000	NC-AL-144.000	NC-AL-144.000.RC	NC-AL-148.000	NC-AL-149.000	NC-AL-149.000.RC	NC-AL-150.000	NC-AL-151.000	NC-AL-154.000	NC-AL-155.000	NC-AL-156.000	NC-AL-157.000	NC-AL-158.000	NC-AL-159.000	NC-AL-160.000	NC-AL-161.000	NC-AL-162.000	NC-AL-163.000	NC-AL-166.000
PIPE / COATING		421 LF	524 LF	415 LF	61 LF	1542 LF	442 LF	138 LF	145 LF	830 LF	443 LF	70 LF	70 LF	3662+01	70 LF	70 LF	85 LF	85 LF	75 LF	98 LF	144 LF	72 LF
SLOPE DISTANCE																						
CLASS LOCATION / HCA																						
CONSTRUCTION EXCLUSION																						
WETLAND / STREAM			S-B18-7 3 LF			AS-NHD-1552 5 LF				S-B18-8 12 LF		S-B18-11 3 LF			S-A18-10 2 LF			S-A18-15 4 LF			AS-B18-132 8 LF	



ALAMANCE COUNTY, NORTH CAROLINA

ISSUED FOR FERC SUPPLEMENTAL FILING

STATION	DESCRIPTION
3612+04	BEGIN STREAM (S-B18-7)
3612+07	END STREAM (S-B18-7)
3615+21	PROPERTY LINE
3620+22	CL STREAM (AS-NHD-1552)
3620+45	PROPERTY LINE
3624+56	BURIED TELEPHONE CABLE
3624+60	PROPERTY LINE
3624+90	EDGE OF ROAD (ASPHALT)
3624+91	EDGE OF ROAD (ASPHALT)
3625+02	EDGE OF ROAD
3625+20	OVERHEAD POWER LINE
3625+21	PROPERTY LINE
3632+27	BEGIN STREAM (S-B18-8)
3632+39	END STREAM (S-B18-8)
3634+26	OVERHEAD TRANSMISSION LINE
3634+39	EDGE OF ROAD
3634+44	EDGE OF ROAD (LEFT)
3634+49	EDGE OF ROAD
3636+70	CL STREAM (S-B18-11)
3640+36	FENCE, 4' BARBED WIRE
3640+63	PROPERTY LINE
3644+75	FENCE, 4' HOG & BARBED WIRE
3645+05	PROPERTY LINE
3645+23	EDGE OF ROAD
3645+55	CL U.S. HWY 70 (HAW RIVER BYPASS)
3645+92	EDGE OF ROAD
3645+95	EDGE OF ROAD
3645+95	EDGE OF ROAD & BARBED WIRE
3646+41	PROPERTY LINE
3646+72	CL STREAM (S-A18-10)
3647+68	PROPERTY LINE
3653+79	CL STREAM (S-A18-15)
3656+18	PROPERTY LINE
3660+61	PROPERTY LINE LINK
3661+31	PROPERTY LINE
3662+01	PROPERTY LINE
3662+01	PROPERTY LINE
3663+41	PROPERTY LINE
3664+26	PROPERTY LINE
3665+08	FENCE, 4' CHAIN LINK
3665+88	PROPERTY LINE
3665+88	FENCE, 4' CHAIN LINK
3666+83	FENCE, 4' CHAIN LINK
3666+84	PROPERTY LINE
3667+92	OVERHEAD POWER LINE
3668+50	BEGIN STREAM (AS-B18-132)
3668+59	END STREAM (AS-B18-132)



REV. NO.	DATE	DESCRIPTION
1	08/31/18	ISSUED FOR REVIEW
2	09/20/18	FERC DRAWING CLIENT REVIEW
3	11/02/18	ISSUED FOR FERC
4	03/06/19	ISSUED FOR FERC SUPPLEMENTAL FILING

APPROVED FOR CONSTRUCTION	DATE
TRC PROJECT NO. 300423	07/02/18

Mountain Valley PIPELINE LLC

PIPELINE ALIGNMENT

MVP SOUTHGATE PROJECT - H-650 LINE

ALAMANCE COUNTY, NORTH CAROLINA

STA. 3611+00 TO STA. 3669+00

HORZ. SCALE: 1" = 200'

DRAWN BY: TRC 07/02/18

DRAFTING CK:

ENGINEERING CK:

CONSTRUCTION CK:

ENVIRONMENTAL CK:

AFE/PO NO.:

TRC PROJECT NO.: 300423

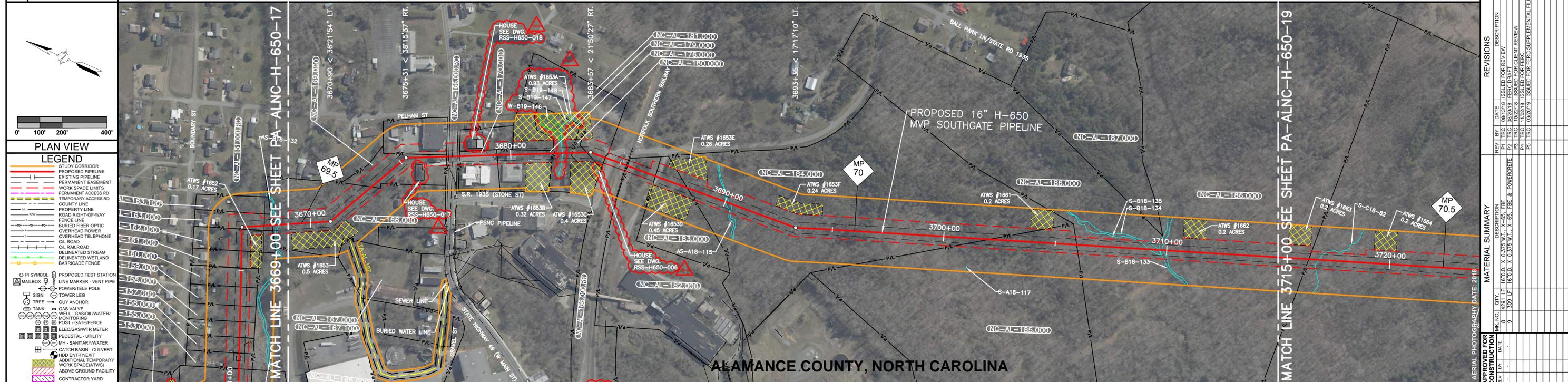
DRAWING NO.:

PA-ALNC-H-650-17

SHEET: 73 OF 77 REV. P5

DATE OF PLOT: 3/27/2019 5:24:24 PM

RIGHT-OF-WAY & OWNERSHIP DATA		NC-AL-166.000	NC-AL-169.000	NC-AL-166.000.RC	NC-AL-170.000	NC-AL-176.000	NC-AL-179.000	NC-AL-180.000	NC-AL-181.000	NC-AL-166.000.RR	NC-AL-182.000	NC-AL-183.000	NC-AL-184.000	NC-AL-185.000	NC-AL-186.000																															
DESIGN	PIPE / COATING	3669+00	429 LF	3673+29	384 LF	3677+13	ST HWY 49 (W MAIN ST.) 60 LF	3677+70	169 LF	3679+39	250 LF	3681+89	87 LF	3682+76	64 LF	3683+40	88 LF	3684+28	106 LF	3685+34	133 LF	3686+67	151 LF	3688+18	1387 LF	3702+05	391 LF	3705+96	904 LF	3715+00																
DESIGN	SLOPE DISTANCE																																													
DESIGN	CLASS LOCATION / HCA																																													
ENVIRONMENTAL	CONSTRUCTION EXCLUSION																																													
ENVIRONMENTAL	WETLAND / STREAM											S-B19-147 1 LF											AS-A18-115 18 LF											S-B18-135 2 LF	S-B18-134 3 LF	S-B18-133 11 LF										

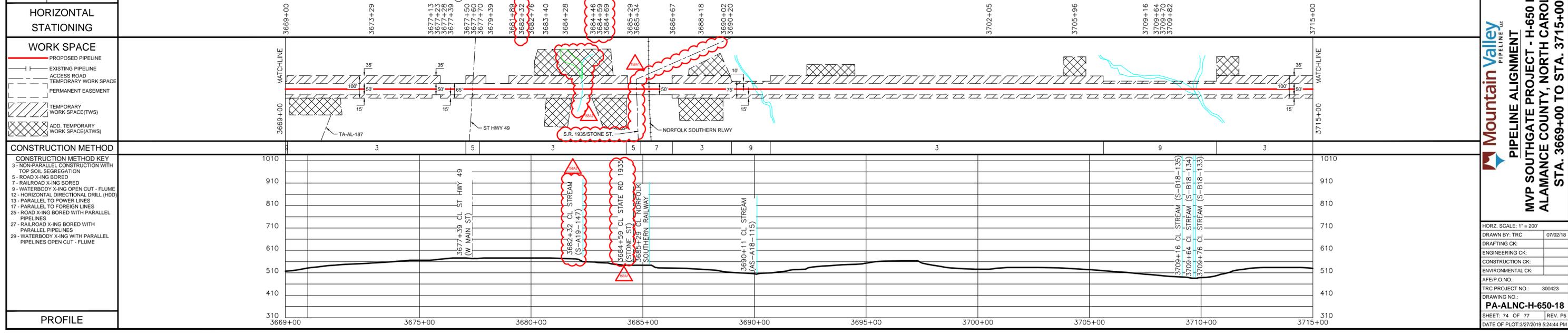


PLAN VIEW

LEGEND

- STUDY CORRIDOR
- PROPOSED PIPELINE
- EXISTING PIPELINE
- PERMANENT EASEMENT
- WORK SPACE LIMITS
- PERMANENT ACCESS RD
- TEMPORARY ACCESS RD
- COUNTY LINE
- PROPERTY LINE
- ROAD RIGHT-OF-WAY
- FENCE LINE
- BURIED FIBER OPTIC
- OVERHEAD TELEPHONE
- CL ROAD
- CL RAILROAD
- DELINEATED STREAM
- DELINEATED WETLAND
- BARRICADE FENCE
- PROPOSED TEST STATION
- LINE MARKER - VENT PIPE
- POWER TELE POLE
- TOWER LEG
- GUY ANCHOR
- GAS VALVE
- WELL - GAS/OIL/WATER
- MONITORING
- POST - GATE/FENCE
- ELECTRICAL METER
- PEDESTAL - UTILITY
- MH - SANITARY WATER
- CATCH BASIN - CULVERT
- ROAD ENTRY/EXIT
- ADDITIONAL TEMPORARY WORK SPACE(TWS)
- ABOVE GROUND FACILITY
- CONTRACTOR YARD

APPROVED FOR BIDDING	APPROVED FOR CONSTRUCTION	APPROVED FOR FERC SUPPLEMENTAL FILING
REV. BY	DATE	DESCRIPTION
TRC	08/13/18	ISSUED FOR REVIEW
TRC	08/20/18	FERC DRAFTER CLIENT REVIEW
TRC	11/02/18	ISSUED FOR FERC
TRC	03/20/19	ISSUED FOR FERC SUPPLEMENTAL FILING



ISSUED FOR FERC SUPPLEMENTAL FILING



REVISIONS

REV. BY	DATE	DESCRIPTION
TRC	08/13/18	ISSUED FOR REVIEW
TRC	08/20/18	FERC DRAFTER CLIENT REVIEW
TRC	11/02/18	ISSUED FOR FERC
TRC	03/20/19	ISSUED FOR FERC SUPPLEMENTAL FILING

MATERIAL SUMMARY

QTY.	DESCRIPTION
429 LF	16" O.D. X 0.375" W.T. X-65 FIBER
359 LF	16" O.D. X 0.375" W.T. X-65 FIBER & POWERGRATE

APPROVED FOR BIDDING

REV. BY	DATE	DESCRIPTION
TRC	08/13/18	ISSUED FOR REVIEW
TRC	08/20/18	FERC DRAFTER CLIENT REVIEW
TRC	11/02/18	ISSUED FOR FERC
TRC	03/20/19	ISSUED FOR FERC SUPPLEMENTAL FILING

APPROVED FOR CONSTRUCTION

REV. BY	DATE	DESCRIPTION
TRC	08/13/18	ISSUED FOR REVIEW
TRC	08/20/18	FERC DRAFTER CLIENT REVIEW
TRC	11/02/18	ISSUED FOR FERC
TRC	03/20/19	ISSUED FOR FERC SUPPLEMENTAL FILING

Mountain Valley PIPELINE LLC

PIPELINE ALIGNMENT

MVP SOUTHGATE PROJECT - H-650 LINE

ALAMANCE COUNTY, NORTH CAROLINA

STA. 3669+00 TO STA. 3715+00

HORIZ. SCALE: 1" = 200'

DRAWN BY: TRC 07/02/18

DRAFTING CK:

ENGINEERING CK:

CONSTRUCTION CK:

ENVIRONMENTAL CK:

AFE/P.O. NO.:

TRC PROJECT NO.: 300423

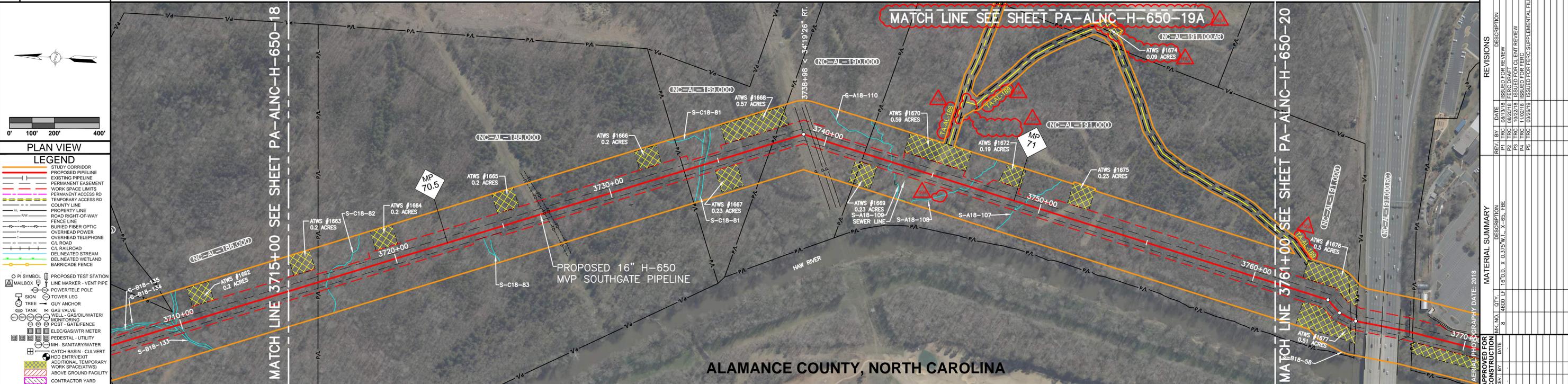
DRAWING NO.:

PA-ALNC-H-650-18

SHEET: 74 OF 77 REV. P5

DATE OF PLOT: 3/27/2019 5:24:44 PM

RIGHT-OF-WAY & OWNERSHIP DATA		NC-AL-186.000	NC-AL-188.000	NC-AL-189.000	NC-AL-190.000	NC-AL-191.000
		3715+00 3715+00	3733+41	3737+53	3741+81	3761+00 3761+00
		137 LF	1704 LF	412 LF	428 LF	1919 LF
DESIGN	PIPE / COATING					
	SLOPE DISTANCE	8				
	CLASS LOCATION / HCA	1				
ENVIRONMENTAL	CONSTRUCTION EXCLUSION					
	WETLAND / STREAM	S-C18-82 3 LF	S-C18-81 24 LF	S-A18-109 5 LF	S-A18-108 2 LF	S-A18-107 1 LF

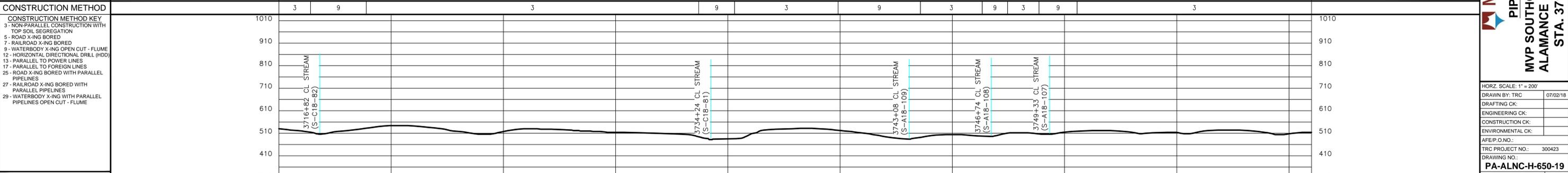
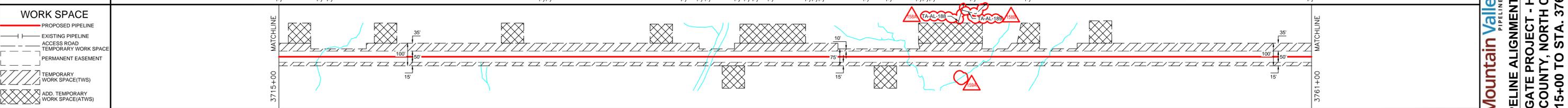


ALAMANCE COUNTY, NORTH CAROLINA

ISSUED FOR FERC SUPPLEMENTAL FILING

DRAWING NO.	DESCRIPTION
PA-ALNC-H-650-18A	ACCESS ROAD ALIGNMENT SHEET

HORIZONTAL STATIONING	DESCRIPTION
3715+00	MATCH LINE
3716+37	PROPERTY LINE
3716+82	CL STREAM (S-C18-82)
3726+92	BURIED FIBER OPTIC CABLE
3727+12	BURIED FIBER OPTIC CABLE
3733+41	PROPERTY LINE
3734+12	BEGIN STREAM (S-C18-81)
3734+36	END STREAM (S-C18-81)
3736+17	EDGE OF ROAD
3736+21	CL ROAD (GRASS)
3736+25	EDGE OF ROAD
3737+53	PROPERTY LINE
3738+99	OVERHEAD TRANSMISSION LINE
3739+39	OVERHEAD TRANSMISSION LINE
3739+61	OVERHEAD TRANSMISSION LINE
3741+81	PROPERTY LINE
3743+08	CL STREAM (S-A18-109)
3744+61	EDGE OF ROAD
3744+66	CL ACCESS RD (GRASS)
3744+72	EDGE OF ROAD
3746+74	CL STREAM (S-A18-108)
3749+33	CL STREAM (S-A18-107)
3761+00	MATCH LINE



CONSTRUCTION METHOD	DESCRIPTION
3	NON-PARALLEL CONSTRUCTION WITH TOP SOIL SEGREGATION
9	ROAD X-ING BORED
3	RAILROAD X-ING BORED
9	WATERBODY X-ING OPEN CUT - FLUME
3	HORIZONTAL DIRECTIONAL DRILL (HDD)
9	PARALLEL TO POWER LINES
3	PARALLEL TO FOREIGN LINES
9	ROAD X-ING BORED WITH PARALLEL PIPELINES
3	RAILROAD X-ING BORED WITH PARALLEL PIPELINES
9	WATERBODY X-ING WITH PARALLEL PIPELINES OPEN CUT - FLUME

PROFILE	DESCRIPTION
3716+82	CL STREAM (S-C18-82)
3734+24	CL STREAM (S-C18-81)
3743+08	CL STREAM (S-A18-109)
3746+74	CL STREAM (S-A18-108)
3749+33	CL STREAM (S-A18-107)



REVISIONS	DATE	DESCRIPTION
P1	08/31/19	ISSUED FOR REVIEW
P2	09/20/19	FERC DRAFTER CLIENT REVIEW
P3	11/02/19	ISSUED FOR FERC
P5	03/20/20	ISSUED FOR FERC SUPPLEMENTAL FILING

APPROVED FOR CONSTRUCTION	DATE

APPROVED FOR BIDDING	DATE

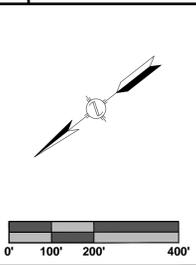
Mountain Valley Pipeline LLC
PIPELINE ALIGNMENT
MVP SOUTHGATE PROJECT - H-650 LINE
ALAMANCE COUNTY, NORTH CAROLINA
STA. 3715+00 TO STA. 3761+00

HORZ. SCALE: 1" = 200'
 DRAWN BY: TRC 07/02/18
 DRAFTING CK:
 ENGINEERING CK:
 CONSTRUCTION CK:
 ENVIRONMENTAL CK:
 AFE/P.O. NO.:
 TRC PROJECT NO.: 300423
 DRAWING NO.:
PA-ALNC-H-650-19
 SHEET: 75 OF 77 REV. P5
 DATE OF PLOT: 3/27/2019 5:24:56 PM

RIGHT-OF-WAY & OWNERSHIP DATA

DESIGN

ENVIRONMENTAL



PLAN VIEW

LEGEND

- STUDY CORRIDOR
- PROPOSED PIPELINE
- EXISTING PIPELINE
- PERMANENT EASEMENT
- WORK SPACE LIMITS
- PERMANENT ACCESS RD
- TEMPORARY ACCESS RD
- COUNTY LINE
- PROPERTY LINE
- ROAD RIGHT-OF-WAY
- FENCE LINE
- BURIED FIBER OPTIC
- OVERHEAD POWER
- OVERHEAD TELEPHONE
- OL ROAD
- CL RAILROAD
- DELINEATED STREAM
- DELINEATED WETLAND
- PI SYMBOL
- MAILBOX
- LINE MARKER - VENT PIPE
- POWER/TELE POLE
- TOWER LEG
- GAS VALVE
- WELL - WATER
- POST - GATE/FENCE
- ELEC/GAS/WTR METER
- PEDESTAL - UTILITY
- MH - SANITARY/WATER
- MAINLINE VALVE
- HDD ENTRY/EXIT
- ADDITIONAL TEMPORARY WORK SPACE(ATWS)
- ABOVE GROUND FACILITY
- CONTRACTOR YARD



ISSUED FOR FERC SUPPLEMENTAL FILING

REFERENCE DRAWINGS

DRAWING NO.	DESCRIPTION
PA-ALNC-H-650-19	ALIGNMENT SHEET

HORIZONTAL STATIONING

WORK SPACE

- PROPOSED PIPELINE
- EXISTING PIPELINE
- ACCESS ROAD
- TEMPORARY WORK SPACE
- PERMANENT EASEMENT
- TEMPORARY WORK SPACE (TWS)
- ADD. TEMPORARY WORK SPACE (ATWS)

CONSTRUCTION METHOD

CONSTRUCTION METHOD KEY

- 3 - NON-PARALLEL CONSTRUCTION WITH TOP SOIL SEGREGATION
- 5 - ROAD X-ING BORED
- 7 - RAILROAD X-ING BORED
- 9 - WATERBODY X-ING OPEN CUT - FLUME
- 12 - HORIZONTAL DIRECTIONAL DRILL (HDD)
- 13 - PARALLEL TO POWER LINES
- 17 - PARALLEL TO FOREIGN LINES
- 25 - ROAD X-ING BORED WITH PARALLEL PIPELINES
- 27 - RAILROAD X-ING BORED WITH PARALLEL PIPELINES
- 29 - WATERBODY X-ING WITH PARALLEL PIPELINES OPEN CUT - FLUME

PROFILE



REVISIONS

REV. BY	DATE	DESCRIPTION
P1	03/28/18	ISSUED FOR FERC SUPPLEMENTAL FILING

MATERIAL SUMMARY

DESCRIPTION	QTY.

APPROVED FOR CONSTRUCTION

REV. BY	DATE

Mountain Valley PIPELINE LLC

ACCESS ROAD

MVP SOUTHGATE PROJECT - H-650 LINE

ALAMEDA COUNTY, NORTH CAROLINA

ACCESS ROAD TA-AL-188 & 189

APPROVED FOR FERC

REV. BY	DATE

HORIZ. SCALE: 1" = 200'

DRAWN BY: TRC 07/02/18

DRAFTING CK:

ENGINEERING CK:

CONSTRUCTION CK:

ENVIRONMENTAL CK:

AFE/P.O. NO.:

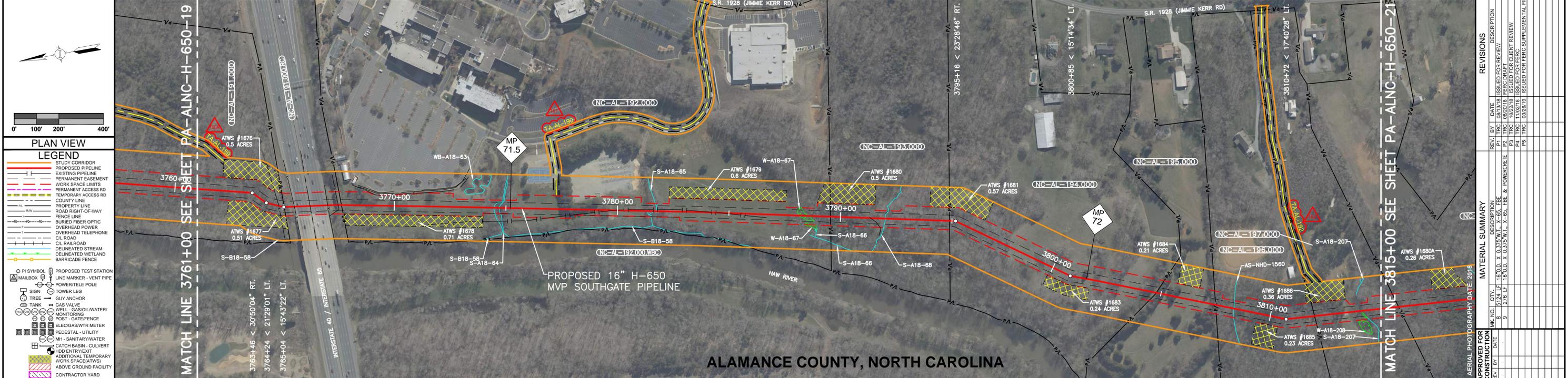
TRC PROJECT NO.: 300423

DRAWING NO.: **PA-ALNC-H-650-19A**

REV. P1

DATE OF PLOT: 3/27/2019 5:27:40 PM

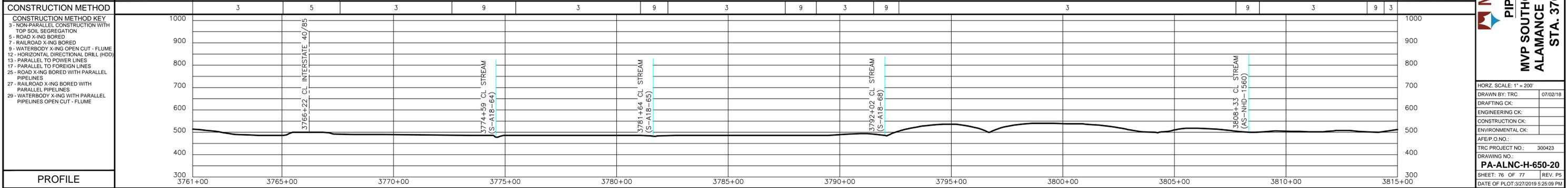
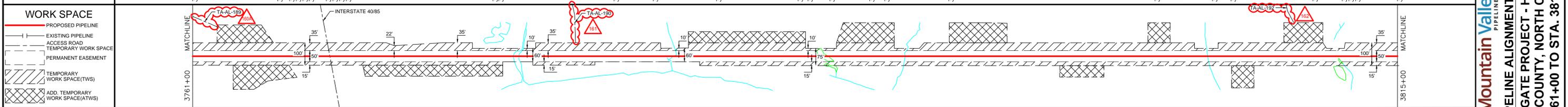
RIGHT-OF-WAY & OWNERSHIP DATA		NC-AL-191.000	NC-AL-191.000.RC	NC-AL-192.000	NC-AL-193.000	NC-AL-194.000	NC-AL-195.000	NC-AL-196.000	NC-AL-197.000
		3761+00	3765+06	3767+63	3789+56	3794+89	3804+78	3807+50	3815+00
		406 LF	257 LF	2193 LF	533 LF	989 LF	272 LF	450 LF	300 LF
DESIGN	PIPE / COATING	8	9		8				
SLOPE DISTANCE									
CLASS LOCATION / HCA		1							
ENVIRONMENTAL	CONSTRUCTION EXCLUSION								
WETLAND / STREAM		S-A18-64 26 LF	S-A18-65 1 LF	W-A18-67 43 LF	S-A18-68 3 LF	AS-NHD-1560 5 LF			



DRAWING NO.	DESCRIPTION
3764+82	FENCE, 5' HOG & BARBED WIRE
3765+06	PROPERTY LINE
3765+52	FENCE, 5' HOG & BARBED WIRE
3765+54	EDGE OF ROAD
3766+22	CL INTERSTATE 40 / INTERSTATE 85 (ASPHALT) ROAD
3766+09	FENCE, 4' HOG & BARBED WIRE
3767+00	FENCE, 4' HOG & BARBED WIRE
3767+48	FENCE, 4' HOG & BARBED WIRE
3767+63	PROPERTY LINE
3774+46	BEGIN STREAM (S-A18-64)
3774+72	END STREAM (S-A18-64)
3779+89	12" FOREIGN PIPELINE
3781+64	CL STREAM (S-A18-65)
3784+48	12" FOREIGN PIPELINE
3788+13	BEGIN WETLAND (W-A18-67)
3788+57	END WETLAND (W-A18-67)
3789+56	PROPERTY LINE
3791+34	FENCE, 4' BARBED WIRE
3792+02	CL STREAM (S-A18-68)
3794+89	PROPERTY LINE
3804+78	PROPERTY LINE
3807+50	PROPERTY LINE
3808+33	CL STREAM (AS-NHD-1560)
3812+00	PROPERTY LINE
3813+65	EDGE OF ROAD (ROAD LOWS)
3813+76	EDGE OF ROAD

ISSUED FOR FERC SUPPLEMENTAL FILING

DRAWING NO.	DESCRIPTION
3764+82	FENCE, 5' HOG & BARBED WIRE
3765+06	PROPERTY LINE
3765+52	FENCE, 5' HOG & BARBED WIRE
3765+54	EDGE OF ROAD
3766+22	CL INTERSTATE 40 / INTERSTATE 85 (ASPHALT) ROAD
3766+09	FENCE, 4' HOG & BARBED WIRE
3767+00	FENCE, 4' HOG & BARBED WIRE
3767+48	FENCE, 4' HOG & BARBED WIRE
3767+63	PROPERTY LINE
3774+46	BEGIN STREAM (S-A18-64)
3774+72	END STREAM (S-A18-64)
3779+89	12" FOREIGN PIPELINE
3781+64	CL STREAM (S-A18-65)
3784+48	12" FOREIGN PIPELINE
3788+13	BEGIN WETLAND (W-A18-67)
3788+57	END WETLAND (W-A18-67)
3789+56	PROPERTY LINE
3791+34	FENCE, 4' BARBED WIRE
3792+02	CL STREAM (S-A18-68)
3794+89	PROPERTY LINE
3804+78	PROPERTY LINE
3807+50	PROPERTY LINE
3808+33	CL STREAM (AS-NHD-1560)
3812+00	PROPERTY LINE
3813+65	EDGE OF ROAD (ROAD LOWS)
3813+76	EDGE OF ROAD



CONSTRUCTION METHOD	CONSTRUCTION METHOD KEY
3	NON-PARALLEL CONSTRUCTION WITH TOP SOIL SEGREGATION
5	ROAD X-ING BORED
7	RAILROAD X-ING BORED
9	WATERBODY X-ING OPEN CUT - FLUME
12	HORIZONTAL DIRECTIONAL DRILL (HDD)
13	PARALLEL TO POWER LINES
17	PARALLEL TO FOREIGN LINES
25	ROAD X-ING BORED WITH PARALLEL PIPELINES
27	RAILROAD X-ING BORED WITH PARALLEL PIPELINES
29	WATERBODY X-ING WITH PARALLEL PIPELINES OPEN CUT - FLUME



REV.	BY	DATE	DESCRIPTION
P1	TRC	08/13/18	ISSUED FOR REVIEW
P2	TRC	08/20/18	FERC DRAFTER CLIENT REVIEW
P3	TRC	11/02/18	ISSUED FOR FERC
P5	TRC	03/20/19	ISSUED FOR FERC SUPPLEMENTAL FILING

Mountain Valley PIPELINE LLC

PIPELINE ALIGNMENT

MVP SOUTHGATE PROJECT - H-650 LINE

ALAMANCE COUNTY, NORTH CAROLINA

STA. 3761+00 TO STA. 3815+00

HORIZ. SCALE: 1" = 200'

DRAWN BY: TRC 07/02/18

DRAFTING CK:

ENGINEERING CK:

CONSTRUCTION CK:

ENVIRONMENTAL CK:

AFE/PI.O.NO.:

TRC PROJECT NO.: 300423

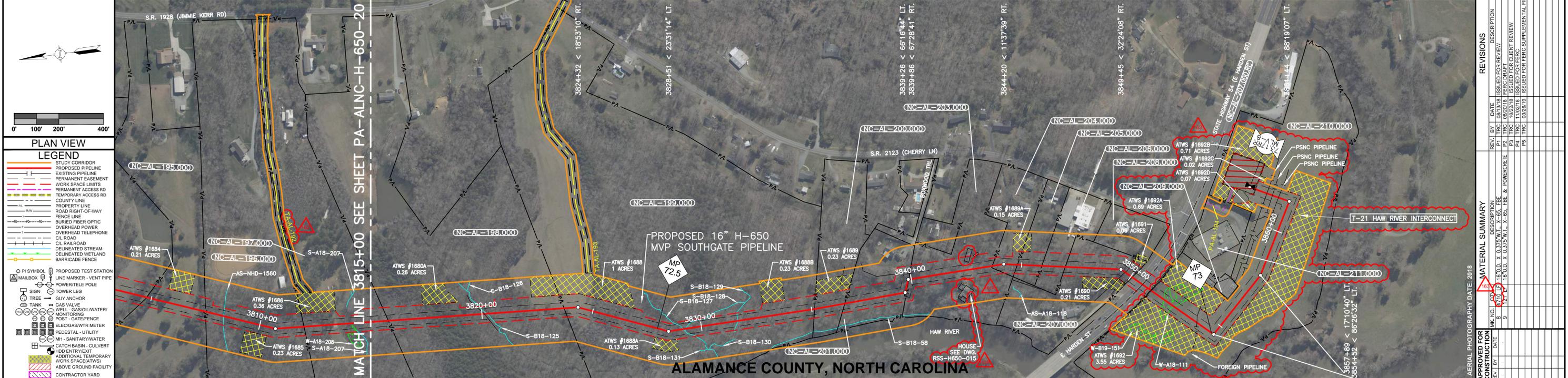
DRAWING NO.:

PA-ALNC-H-650-20

SHEET: 76 OF 77 REV. P5

DATE OF PLOT: 3/27/2019 5:25:09 PM

RIGHT-OF-WAY & OWNERSHIP DATA	3815+00	NC-AL-197.000	NC-AL-198.000	NC-AL-199.000	NC-AL-200.000	NC-AL-201.000	NC-AL-203.000	NC-AL-204.000	NC-AL-205.000	NC-AL-206.000	NC-AL-207.000	NC-AL-207.000.RC	NC-AL-210.000																
PIPE / COATING	3815+00	79 LF	790 LF	1145 LF	3635+14	137 LF	3636+51	337 LF	3639+88	380 LF	3643+68	113 LF	3644+81	109 LF	3645+90	106 LF	3646+96	311 LF	3649+07	101 LF	3651+08	901 LF	3660+09						
SLOPE DISTANCE	8																												
CLASS LOCATION / HCA	1												2						3			2		1	2				
CONSTRUCTION EXCLUSION																													
WETLAND / STREAM													S-B18-125 3 LF			S-B18-127 5 LF			S-B18-128 2 LF		S-B18-129 3 LF			W-A18-111 56 LF					



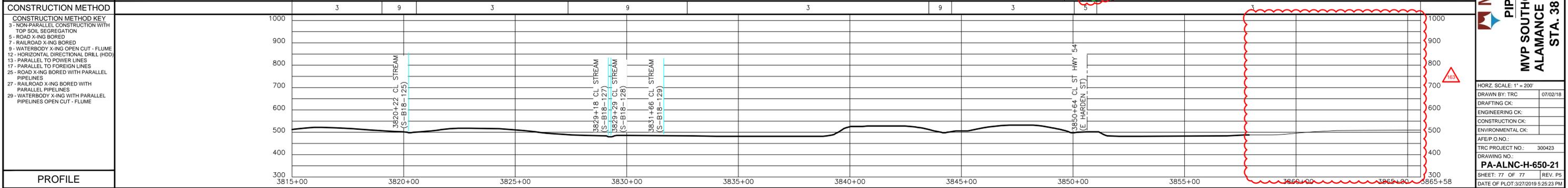
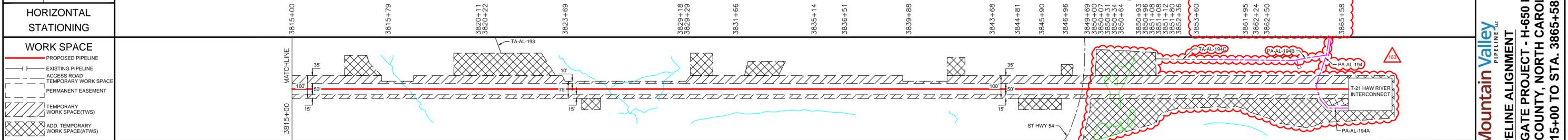
PLAN VIEW

LEGEND

- STUDY CORRIDOR
- PROPOSED PIPELINE
- EXISTING PIPELINE
- PERMANENT EASEMENT
- WORK SPACE LIMITS
- PERMANENT ACCESS RD
- TEMPORARY ACCESS RD
- COUNTY LINE
- PROPERTY LINE
- ROAD RIGHT-OF-WAY
- FENCE LINE
- BURIED FIBER OPTIC
- OVERHEAD TELEPHONE
- CL ROAD
- RAILROAD
- DELINEATED STREAM
- DELINEATED WETLAND
- BARRICADE FENCE
- PROPOSED TEST STATION
- LINE MARKER - VENT PIPE
- TOWER LEG
- GUY ANCHOR
- GAS VALVE
- WELL - OIL/WATER/ MONITORING
- POST - GATEFENCE
- ELEC/GAS/WTR METER
- PEDESTAL - UTILITY
- MH - SANITARY/WATER
- CATCH BASIN - CULVERT
- ROAD ENTRANCE
- ADDITIONAL TEMPORARY WORK SPACE(ATWS)
- ABOVE GROUND FACILITY
- CONTRACTOR YARD

REFERENCE DRAWINGS

DRAWING NO.	DESCRIPTION
XXX-1100-01	PROPOSED T-21 HAW RIVER INTERCONNECT
RSS-H650-015	RESIDENTIAL SITE SPECIFIC



PROFILE

3815+00 3820+00 3825+00 3830+00 3835+00 3840+00 3845+00 3850+00 3855+00 3860+00 3865+58

TRC
Results you can rely on

REVISIONS

REV. NO.	DATE	DESCRIPTION
P1	08/13/18	ISSUED FOR REVIEW
P2	08/20/18	FERC DRAFTER CLIENT REVIEW
P3	11/02/18	ISSUED FOR FERC
P5	03/20/19	ISSUED FOR FERC SUPPLEMENTAL FILING

MATERIAL SUMMARY

ITEM NO.	DATE	DESCRIPTION
8	07/10/18	16" O.D. X 0.375" W.T. X-65 FIBER
9	12/14/17	16" O.D. X 0.375" W.T. X-65 FIBER & POWERCABLE

APPROVED FOR CONSTRUCTION

APPROVED FOR BIDDING

APPROVED FOR FERC

Mountain Valley Pipeline LLC

PIPELINE ALIGNMENT

MVP SOUTHGATE PROJECT - H-650 LINE

ALAMANCE COUNTY, NORTH CAROLINA

STA. 3815+00 TO STA. 3865+58

HORIZ. SCALE: 1" = 200'

DRAWN BY: TRC 07/02/18

DRAFTING CK:

ENGINEERING CK:

CONSTRUCTION CK:

ENVIRONMENTAL CK:

AFE/P.O. NO.:

TRC PROJECT NO.: 300423

DRAWING NO.: PA-ALNC-H-650-21

SHEET: 77 OF 77 REV. P5

DATE OF PLOT: 3/27/2019 5:25:23 PM

ISSUED FOR FERC SUPPLEMENTAL FILING