

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
- CL ROAD
- CL RAILROAD
- STREAM
- WETLAND
- 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

REFERENCE DRAWINGS

DRAWING NO.	DESCRIPTION
PA-ALNC-H-650-02	ALIGNMENT SHEET

HORIZONTAL STATIONING

WORK SPACE

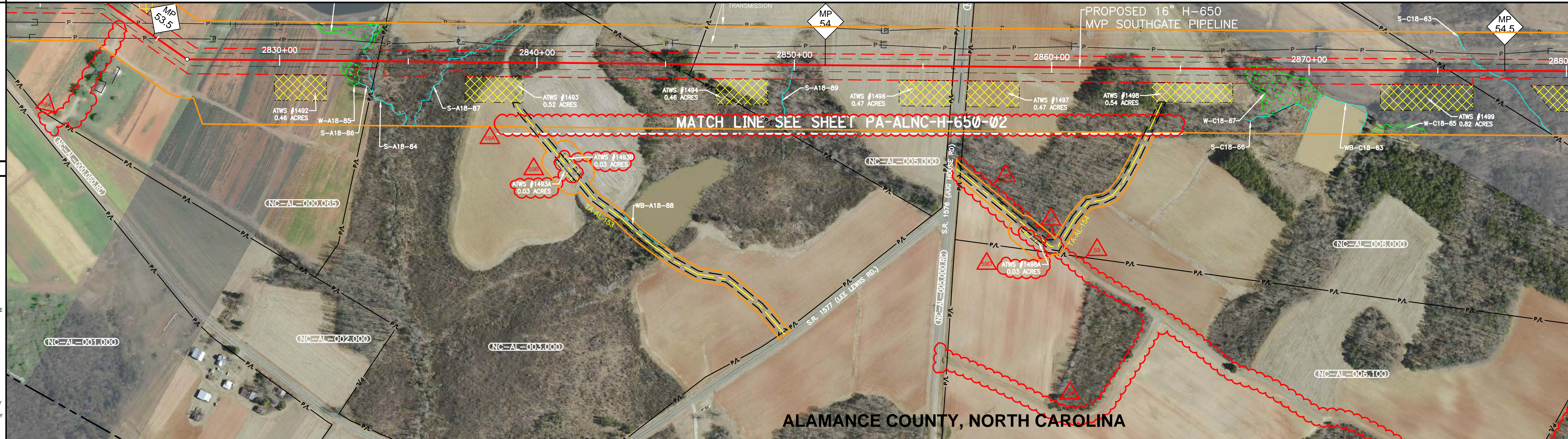
- PROPOSED PIPELINE
- EXISTING PIPELINE
- ACCESS ROAD
- TEMPORARY WORK SPACE
- PERMANENT EASEMENT
- TEMPORARY WORK SPACE(TWS)
- ADD. TEMPORARY WORK SPACE(ATWS)

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. NO.	DATE	DESCRIPTION
P1	10/26/18	ISSUED FOR FERC SUPPLEMENTAL FILING

MATERIAL SUMMARY

DESCRIPTION	QTY.
AERIAL PHOTOGRAPHY DATE: 2018	

APPROVED FOR CONSTRUCTION

REV. BY	DATE

APPROVED FOR BIDDING

REV. BY	DATE

APPROVED FOR FERC

REV. BY	DATE

Mountain Valley PIPELINE LLC
ACCESS ROAD
MVP SOUTHGATE PROJECT - H-650 LINE
ALAMANCE COUNTY, NORTH CAROLINA
(ACCESS ROADS TA-AL-153 & 154)

HORZ. SCALE: 1" = 200'

DRAWN BY: TRC 07/02/18

DRAFTING CK:

ENGINEERING CK:

CONSTRUCTION CK:

ENVIRONMENTAL CK:

AFE/P.O. NO.:

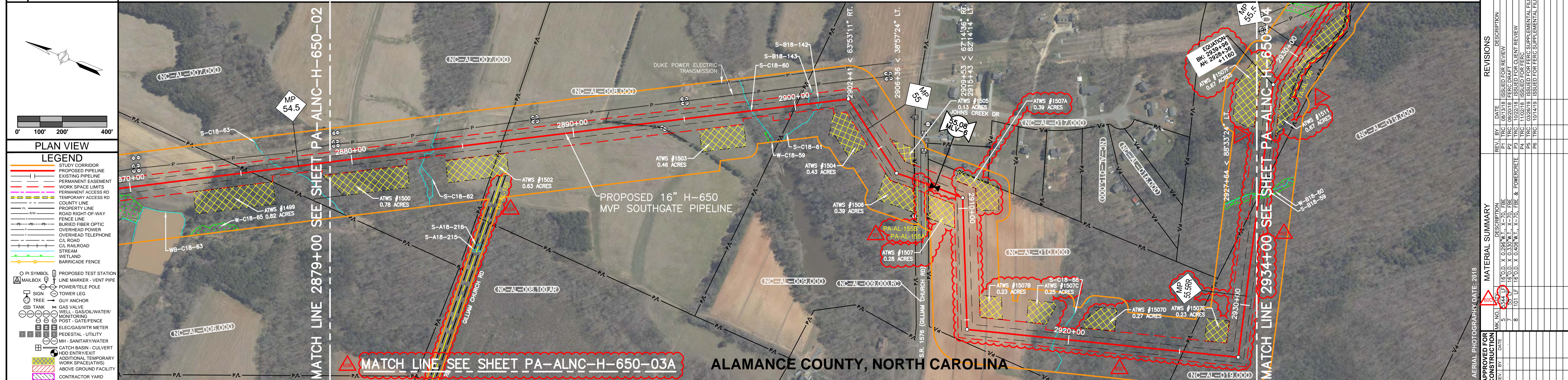
TRC PROJECT NO.: 300423

DRAWING NO.: **PA-ALNC-H-650-02A**

REV. P1

DATE OF PLOT: 10/3/2019 3:34:46 PM

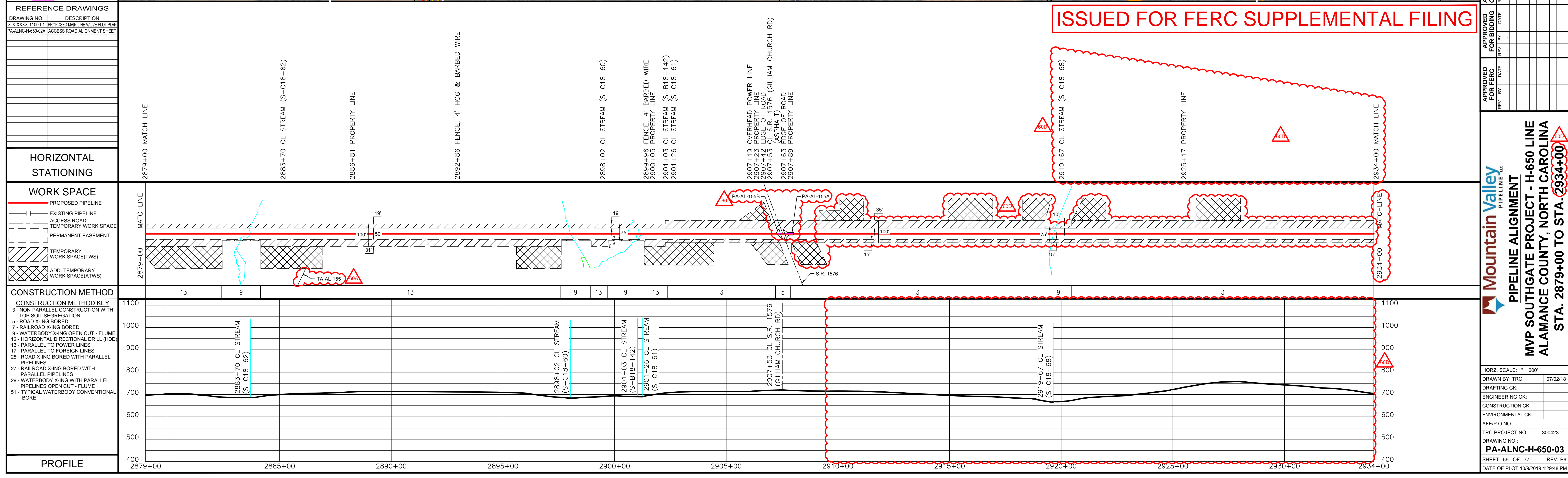
RIGHT-OF-WAY & OWNERSHIP DATA		2879+00	2883+70	2886+81	2890+00	2900+05	2907+23	2907+49	2907+89	2914+00	2925+17	2934+00
PIPE / COATING												
SLOPE DISTANCE					5							
CLASS LOCATION / HCA					1			2			1	2
CONSTRUCTION EXCLUSION												
WETLAND / STREAM			S-C18-62 4 LF			S-C18-60 4 LF	S-B18-142 1 LF	S-C18-61 2 LF			S-C18-68 5 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 POWER
- OVERHEAD TELEPHONE
- CL RAILROAD
- STREAM
- WETLAND
- BARRICADE FENCE
- PROPOSED TEST STATION
- LINE MARKER - VENT PIPE
- MONITOR TELE POLE
- TOWER LEG
- TREE
- GUY ANCHOR
- GAS VALVE
- WELL - GAS/OIL/WATER
- MONITORING
- POST - GATE FENCE
- ELECTRICITY METER
- PEDESTAL - UTILITY
- MH - SANITARY WATER
- CATCH BASIN - CULVERT
- ROAD ENTRY/EXIT
- ADDITIONAL TEMPORARY WORK SPACE(TWS)
- ABOVE GROUND FACILITY
- CONTRACTOR YARD



REVISIONS

REV.	BY	DATE	DESCRIPTION
P1	TRC	08/13/18	ISSUED FOR REVIEW
P2	TRC	08/20/18	FERC DRAWING CLIENT REVIEW
P3	TRC	11/02/18	ISSUED FOR FERC
P5	TRC	03/20/19	ISSUED FOR FERC SUPPLEMENTAL FILING
P6	TRC	10/14/19	ISSUED FOR FERC SUPPLEMENTAL FILING

MATERIAL SUMMARY

REV.	BY	DATE	DESCRIPTION
1	TRC	10/03/18	16.0" D. X 0.285" W.T. X-70. FIBRE
2	TRC	10/03/18	16.0" D. X 0.300" W.T. X-70. FIBRE
3	TRC	10/03/18	16.0" D. X 0.408" W.T. X-70. FIBRE & CONCRETE
4	TRC	10/03/18	16.0" D. X 0.408" W.T. X-70. FIBRE & CONCRETE
5	TRC	10/03/18	16.0" D. X 0.408" W.T. X-70. FIBRE & CONCRETE
6	TRC	10/03/18	16.0" D. X 0.408" W.T. X-70. FIBRE & CONCRETE
7	TRC	10/03/18	16.0" D. X 0.408" W.T. X-70. FIBRE & CONCRETE
8	TRC	10/03/18	16.0" D. X 0.408" W.T. X-70. FIBRE & CONCRETE

APPROVED FOR CONSTRUCTION

DATE: 10/14/19

ISSUED FOR FERC SUPPLEMENTAL FILING

APPROVED FOR BIDDING

DATE: 10/14/19

Mountain Valley PIPELINE LLC

PIPELINE ALIGNMENT

MVP SOUTHGATE PROJECT - H-650 LINE

ALAMANCE COUNTY, NORTH CAROLINA

STA. 2879+00 TO STA. 2934+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-650-03

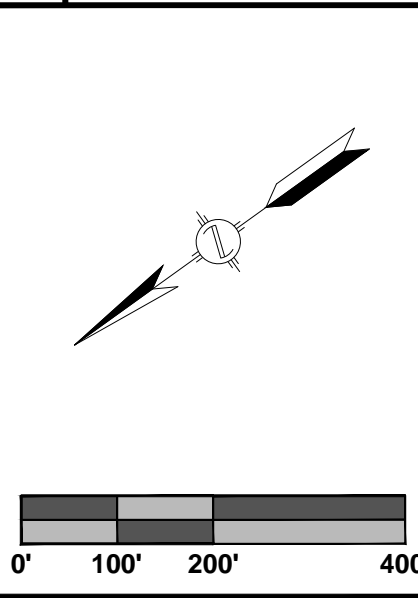
SHEET: 59 OF 77 REV. P6

DATE OF PLOT: 10/29/2019 4:29:48 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
 - CL RAILROAD
 - STREAM
 - 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

REFERENCE DRAWINGS

DRAWING NO.	DESCRIPTION
PA-ALNC-H-650-03	ALIGNMENT SHEET
RSS-H560-040	RESIDENTIAL SITE SPECIFIC

HORIZONTAL STATIONING

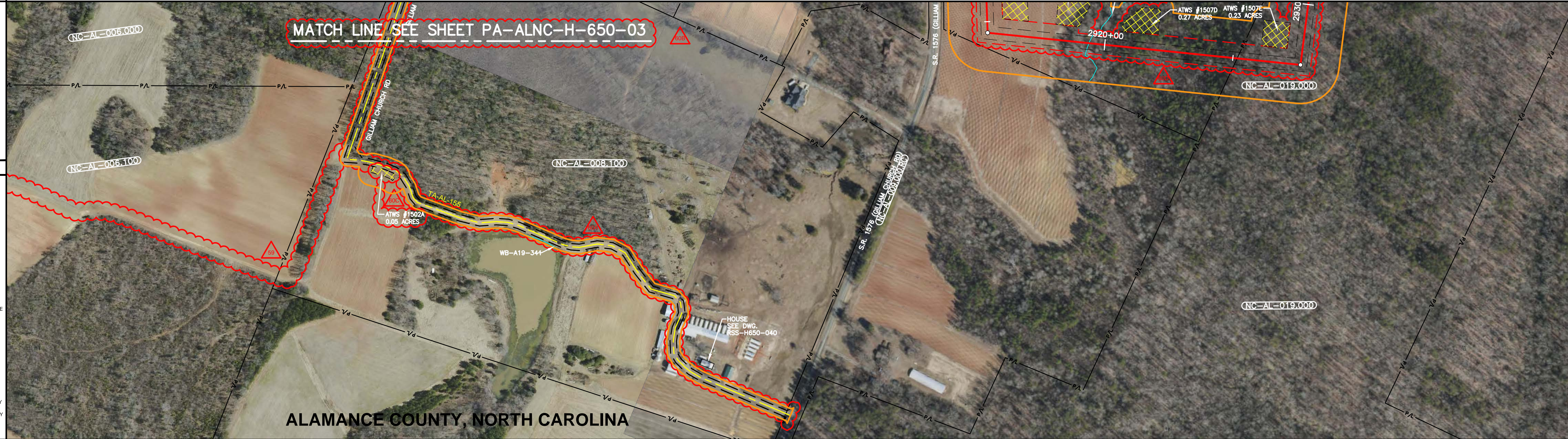
WORK SPACE

- 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**
- 5 - 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
P1	TRC 10/26/19
ISSUED FOR FERC SUPPLEMENTAL FILING	

MATERIAL SUMMARY	
DESCRIPTION	QTY.

APPROVED FOR CONSTRUCTION	
REV. BY	DATE

APPROVED FOR BIDDING	
REV. BY	DATE

APPROVED FOR FERC	
REV. BY	DATE

Mountain Valley PIPELINE LLC
ACCESS ROAD
MVP SOUTHGATE PROJECT - H-650 LINE
ALAMANCE COUNTY, NORTH CAROLINA
ACCESS ROADS TA-AL-155

HORZ. SCALE: 1" = 200'

DRAWN BY: TRC 07/02/18

DRAFTING CK:

ENGINEERING CK:

CONSTRUCTION CK:

ENVIRONMENTAL CK:

AFE/PO NO.:

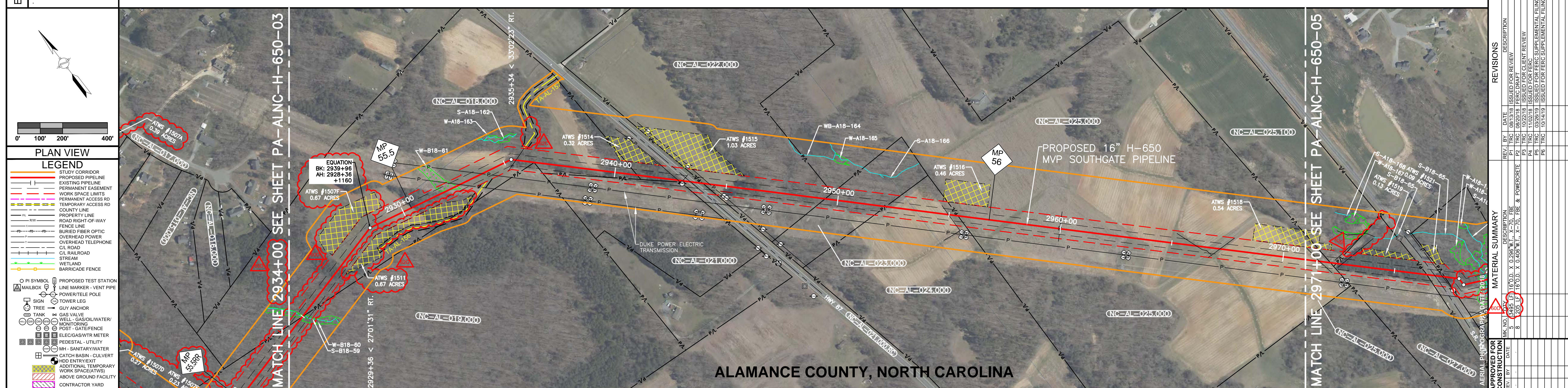
TRC PROJECT NO.: 300423

DRAWING NO.: **PA-ALNC-H-650-03A**

REV. P1

DATE OF PLOT: 10/3/2019 9:16:03 AM

RIGHT-OF-WAY & OWNERSHIP DATA		2934+00	2934+98	2941+00	2943+95	2949+44	2952+16	2955+40	2971+00
		98 LF	1762 LF	295 LF	549 LF	272 LF	324 LF	1560 LF	
DESIGN		PIPE / COATING		8		5			
		SLOPE DISTANCE		2		1			
		CLASS LOCATION / HCA		2		1			
ENVIRONMENTAL		CONSTRUCTION EXCLUSION		S-B18-59 3 LF		W-B18-61 39 LF			
		WETLAND / STREAM							

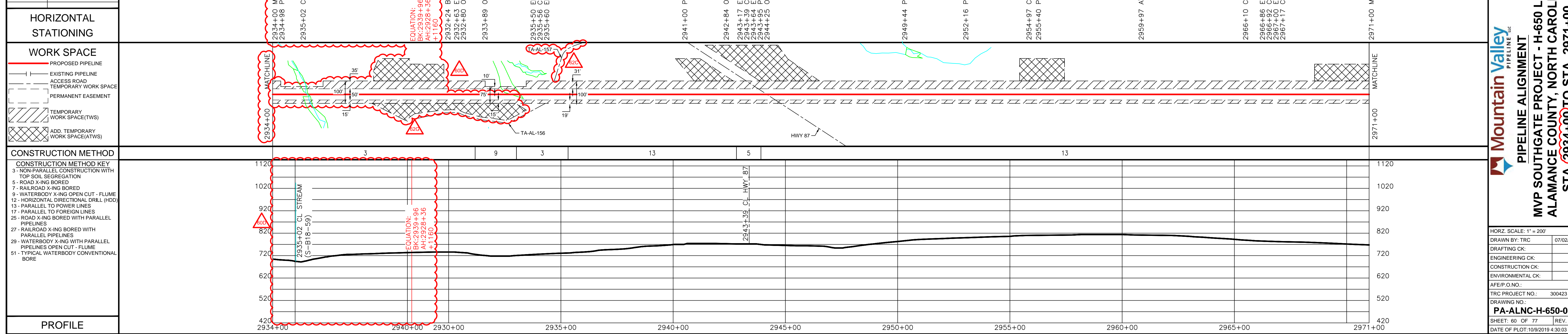


PLAN VIEW

LEGEND

- PROPOSED 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
- STREAM
- WETLAND
- BARRICADE FENCE
- PROPOSED TEST STATION
- MAILBOX
- LINE MARKER - VENT PIPE
- POWER TELE POLE
- TOWER LEG
- TREE
- GUY ANCHOR
- GAS VALVE
- WELL - GAS/OIL/WATER
- MONITORING
- POST - GATE FENCE
- ELEC/GAS/WTR METER
- PEDESTAL - UTILITY
- MH - SANITARY/WATER
- CATCH BASIN - CULVERT
- ROAD ENTRY/EXIT
- ADDITIONAL TEMPORARY WORK SPACE(ATWS)
- ABOVE GROUND FACILITY
- CONTRACTOR YARD

REFERENCE DRAWINGS		DRAWING NO.	DESCRIPTION
HORIZONTAL STATIONING		2934+00 MATCH LINE	2934+98 PROPERTY LINE
WORK SPACE		2935+02 CL STREAM (S-B18-59)	2935+50 OVERHEAD TRANSMISSION LINE
CONSTRUCTION METHOD		2935+50 OVERHEAD TRANSMISSION LINE	2941+00 PROPERTY LINE
PROFILE		2942+84 OVERHEAD POWER LINE	2943+17 EDGE OF ROAD
		2943+39 CL HWY 87 (ASPHALT)	2943+64 EDGE OF ROAD
		2943+95 PROPERTY LINE	2944+25 OVERHEAD POWER LINE
		2949+44 PROPERTY LINE	2952+16 PROPERTY LINE
		2954+97 CL DITCH	2955+40 PROPERTY LINE
		2959+97 AT&T FIBER OPTIC CABLE	2966+10 CL DITCH
		2966+86 EDGE OF ROAD (GRAVEL)	2967+00 EDGE OF ROAD
		2967+17 CL DITCH	2971+00 MATCH LINE



ISSUED FOR FERC SUPPLEMENTAL FILING



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
P4	10/26/19	ISSUED FOR FERC SUPPLEMENTAL FILING
P5	10/26/19	ISSUED FOR FERC SUPPLEMENTAL FILING
P6	10/24/19	ISSUED FOR FERC SUPPLEMENTAL FILING

MATERIAL SUMMARY

APPROVED FOR CONSTRUCTION	APPROVED FOR BIDDING	APPROVED FOR FERC
REV. BY: DATE	REV. BY: DATE	REV. BY: DATE
5 03/05/18		
B 03/05/18		

Mountain Valley PIPELINE LLC

PIPELINE ALIGNMENT

MVP SOUTHGATE PROJECT - H-650 LINE

ALAMANCE COUNTY, NORTH CAROLINA

STA. 2934+00 TO STA. 2971+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

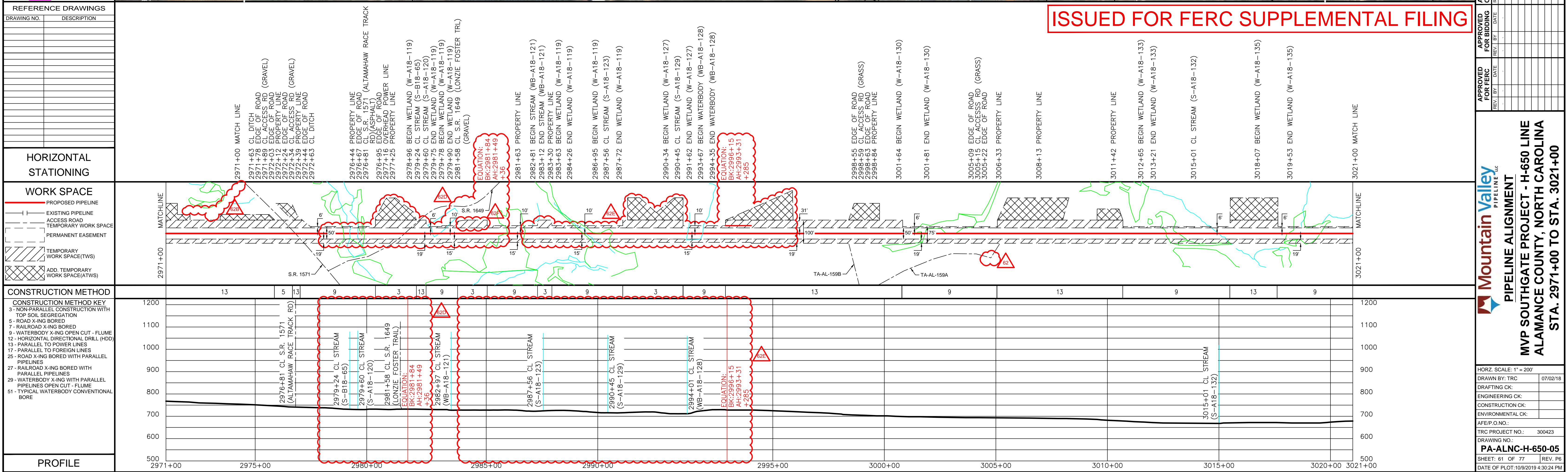
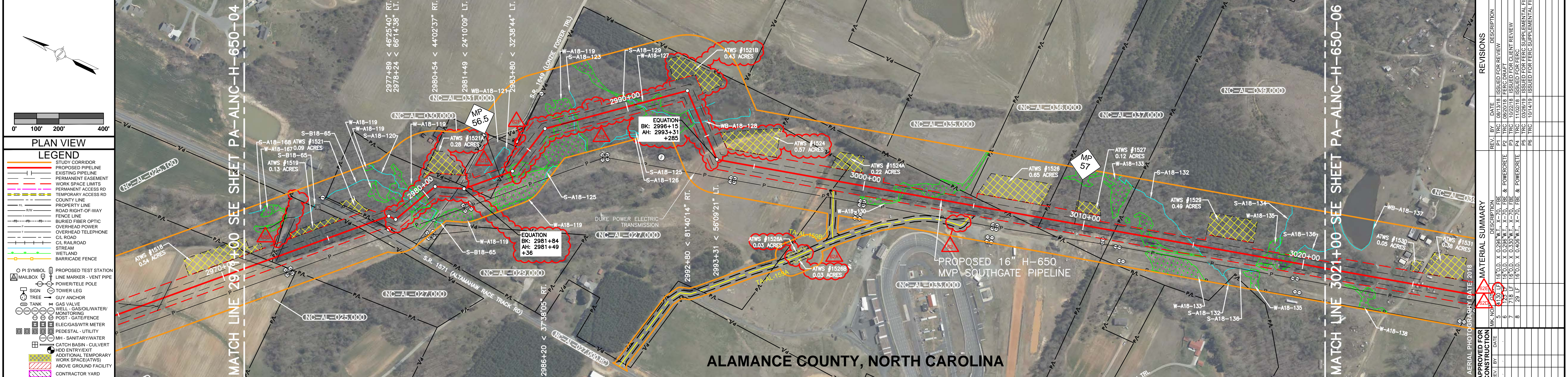
DRAWING NO.:

PA-ALNC-H-650-04

SHEET: 60 OF 77 REV. P6

DATE OF PLOT: 10/29/2019 4:30:03 PM

RIGHT-OF-WAY & OWNERSHIP DATA		2971+00	NC-AL-025.000	NC-AL-025.100	NC-AL-027.000	NC-AL-027.000.RC S.R.1571 (ALTAHAWH RACE TRACK RD)	NC-AL-027.000	NC-AL-031.000	NC-AL-028.000	NC-AL-033.000	NC-AL-036.000	NC-AL-037.000	NC-AL-039.000	3021+00							
DESIGN	PIPE / COATING		112 LF	27 LF	405 LF	81 LF	474 LF	167 LF	1839 LF	749 LF	180 LF	329 LF	958 LF								
	SLOPE DISTANCE																				
	CLASS LOCATION / HCA																				
ENVIRONMENTAL	CONSTRUCTION EXCLUSION																				
	WETLAND / STREAM		W-A18-119 28 LF	S-B18-65 2 LF	W-A18-119 36 LF	S-A18-120 2 LF	W-A18-119 15 LF	W-A18-119 12 LF	WB-A18-121 31 LF	W-A18-119 63 LF	W-A18-119 61 LF	S-A18-123 1 LF	W-A18-119 16 LF	W-A18-127 11 LF	S-A18-129 2 LF	W-A18-127 117 LF	WB-A18-128 68 LF	W-A18-130 17 LF	W-A18-133 56 LF	S-A18-132 5 LF	W-A18-135 146 LF



REVISIONS		DATE	DESCRIPTION
1	TRC	08/13/19	ISSUED FOR REVIEW
2	TRC	08/20/19	FERC DRAFTER CLIENT REVIEW
3	TRC	11/02/19	ISSUED FOR FERC
4	TRC	03/20/19	ISSUED FOR FERC SUPPLEMENTAL FILING
5	TRC	10/24/19	ISSUED FOR FERC SUPPLEMENTAL FILING

APPROVED FOR CONSTRUCTION		DATE	DESCRIPTION
1	TRC	08/13/19	ISSUED FOR REVIEW
2	TRC	08/20/19	FERC DRAFTER CLIENT REVIEW
3	TRC	11/02/19	ISSUED FOR FERC
4	TRC	03/20/19	ISSUED FOR FERC SUPPLEMENTAL FILING
5	TRC	10/24/19	ISSUED FOR FERC SUPPLEMENTAL FILING

Mountain Valley PIPELINE LLC

PIPELINE ALIGNMENT

MVP SOUTHGATE PROJECT - H-650 LINE

ALAMANCE COUNTY, NORTH CAROLINA

STA. 2971+00 TO STA. 3021+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

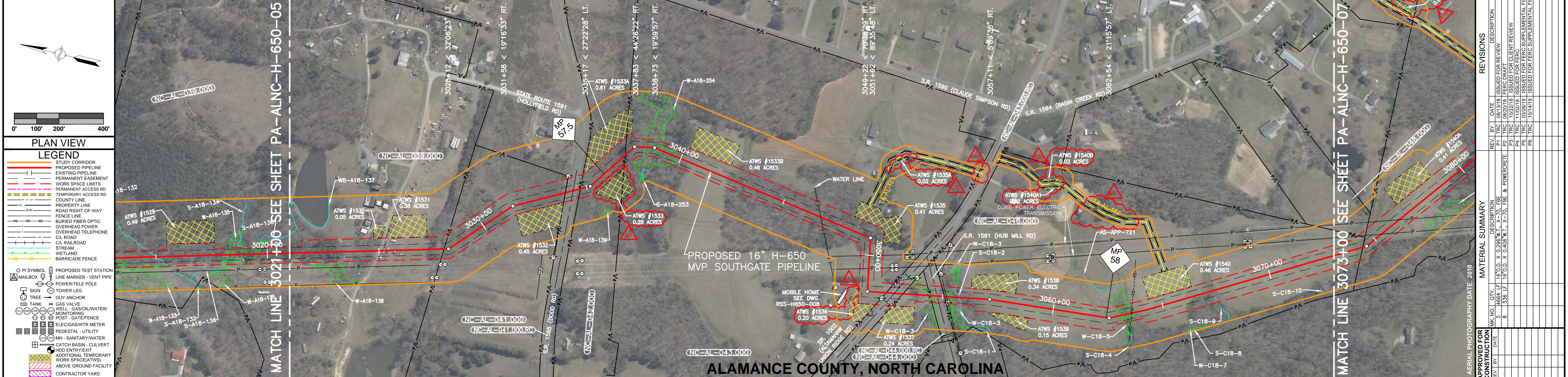
DRAWING NO.:

PA-ALNC-H-650-05

SHEET: 61 OF 77 REV: P6

DATE OF PLOT: 10/29/2019 4:30:24 PM

RIGHT-OF-WAY & OWNERSHIP DATA	3021+00	3027+92	3034+02	3034+71	3037+26	3052+47	3053+22	3054+44	3055+08	3073+00
	692 LF	610 LF	S.R. 1565 (DODD RD) 69 LF	255 LF	1521 LF	S.R. 1002 (ALTAHAWHAW UNION RIDGE RD) 75 LF	122 LF	S.R. 1561 (HUBB MILL RD) 64 LF	1792 LF	
	5	5	8	5	5	8	5	2	1	2
DESIGN	PIPE / COATING									
SLOPE DISTANCE										
CLASS LOCATION / HCA										
ENVIRONMENTAL	CONSTRUCTION EXCLUSION									
	WETLAND / STREAM									



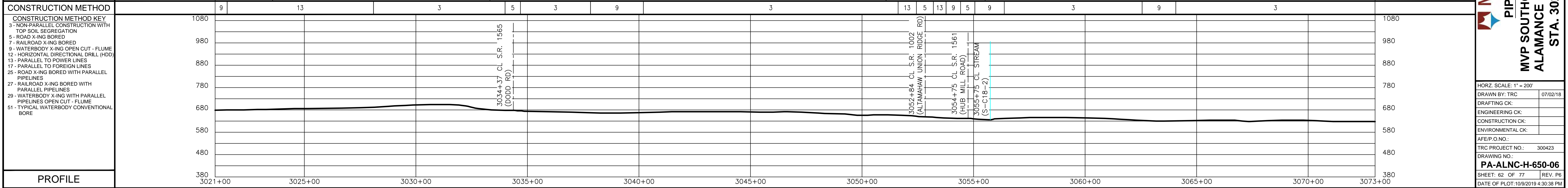
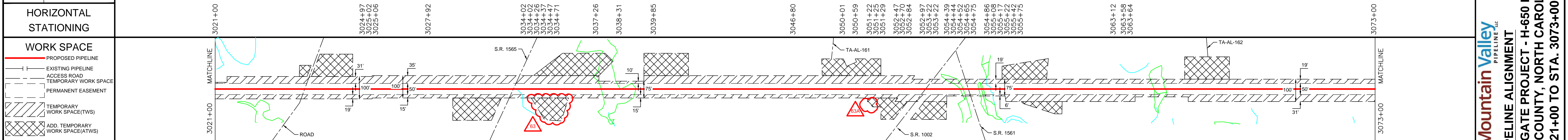
PLAN VIEW

LEGEND

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

REFERENCE DRAWINGS

DRAWING NO.	DESCRIPTION
RSS-H650-008	RESIDENTIAL SITE SPECIFIC



ISSUED FOR FERC SUPPLEMENTAL FILING



REVISIONS

REV. NO.	DATE	DESCRIPTION
P1	08/13/18	ISSUED FOR REVIEW
P2	08/20/18	FERC DRAWING CLIENT REVIEW
P3	11/02/18	ISSUED FOR FERC
P4	03/20/19	ISSUED FOR FERC SUPPLEMENTAL FILING
P5	10/24/19	ISSUED FOR FERC SUPPLEMENTAL FILING

MATERIAL SUMMARY

QTY.	DESCRIPTION
4664 LF	16" O.D. X 0.285" W.T. X-70. FBE
558 LF	16" O.D. X 0.406" W.T. X-70. FBE & POWERGRITE

APPROVED FOR CONSTRUCTION

REV. BY	DATE

APPROVED FOR BIDDING

REV. BY	DATE

Mountain Valley PIPELINE LLC

PIPELINE ALIGNMENT

MVP SOUTHGATE PROJECT - H-650 LINE

ALAMANCE COUNTY, NORTH CAROLINA

STA. 3021+00 TO STA. 3073+00

HORIZ. SCALE: 1" = 200'

DRAWN BY: TRC 07/02/18

DRAFTING CK:

ENGINEERING CK:

CONSTRUCTION CK:

ENVIRONMENTAL CK:

AFE/PO NO.:

TRC PROJECT NO.: 300423

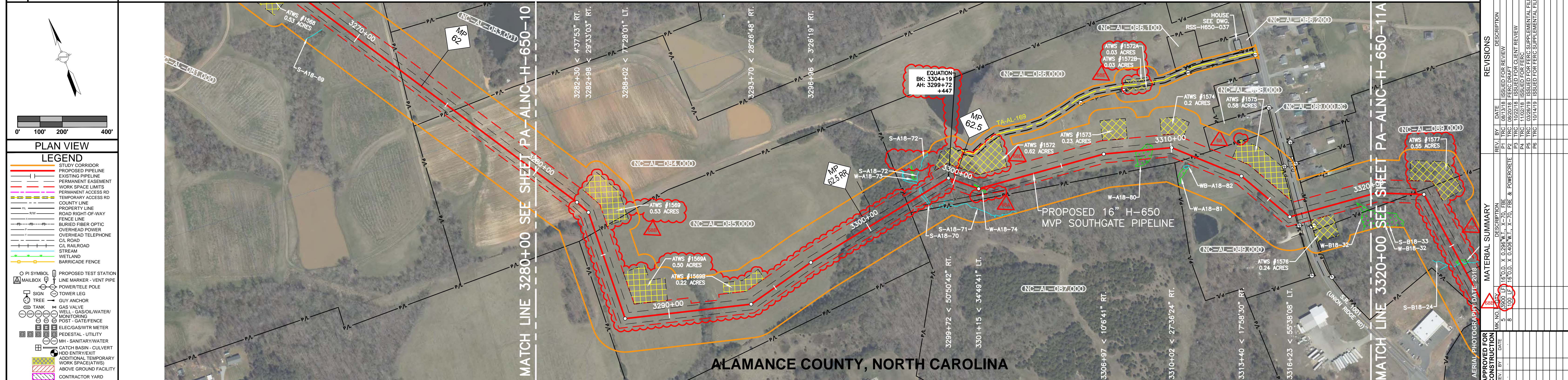
DRAWING NO.:

PA-ALNC-H-650-06

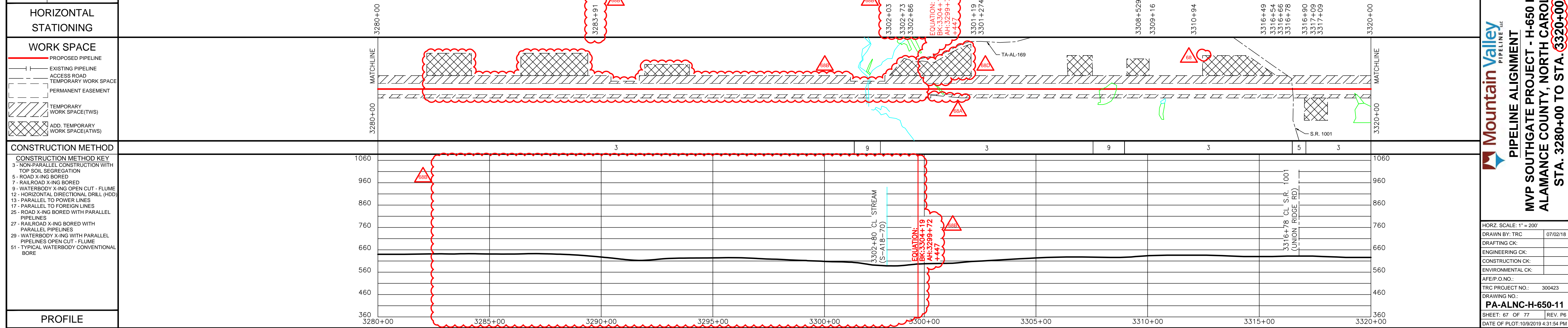
SHEET: 62 OF 77 REV. P6

DATE OF PLOT: 10/29/2019 4:30:38 PM

RIGHT-OF-WAY & OWNERSHIP DATA		NC-AL-084.000	NC-AL-085.000	NC-AL-086.000	NC-AL-089.000	NC-AL-089.000.RC	NC-AL-089.000
PIPE / COATING		391 LF	1812 LF	1353 LF	540 LF	60 LF	473 LF
SLOPE DISTANCE				5		8	5
CLASS LOCATION / HCA		1	2	1	2		



DRAWING NO.	DESCRIPTION
RSS-H650-037	RESIDENTIAL SITE SPECIFIC



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
51	TYPICAL WATERBODY CONVENTIONAL BORE



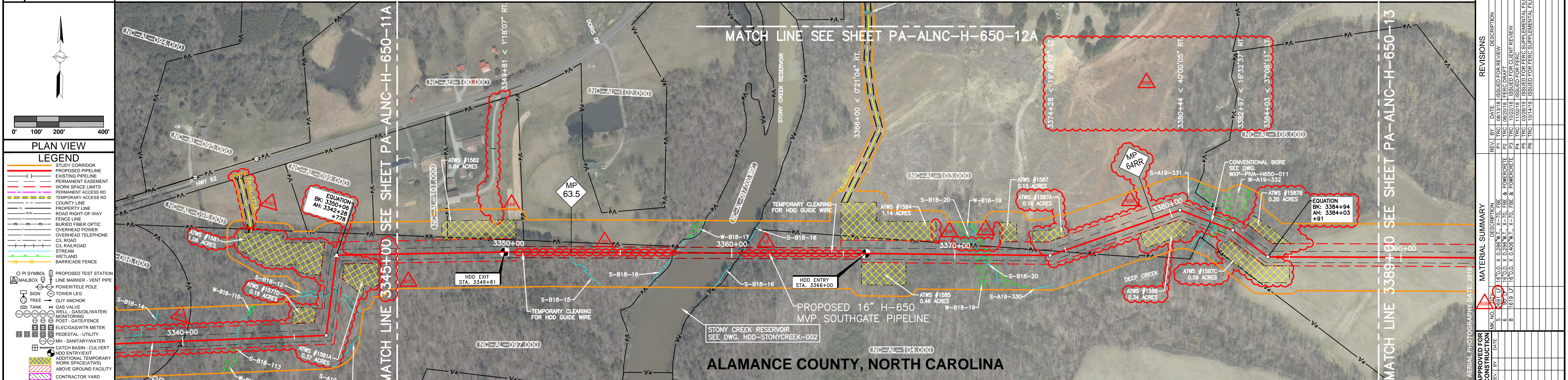
REV. NO.	DATE	DESCRIPTION
P1	08/13/18	ISSUED FOR REVIEW
P2	08/20/18	FERC DRAFTER CLIENT REVIEW
P3	11/02/18	ISSUED FOR FERC
P4	03/20/19	ISSUED FOR FERC SUPPLEMENTAL FILING
P5	10/24/19	ISSUED FOR FERC SUPPLEMENTAL FILING

APPROVED FOR CONSTRUCTION	DATE

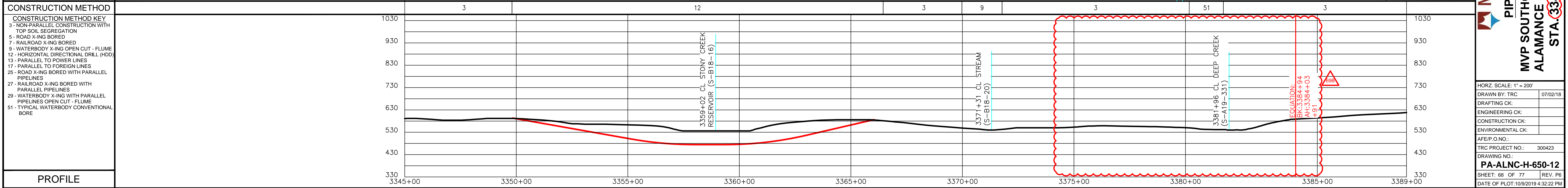
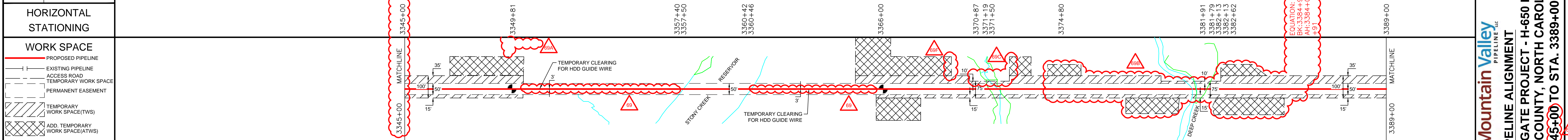
Mountain Valley PIPELINE LLC
PIPELINE ALIGNMENT
MVP SOUTHGATE PROJECT - H-650 LINE
ALAMANCE COUNTY, NORTH CAROLINA
STA. 3280+00 TO STA. 3320+00

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-650-11	
SHEET: 67 OF 77	REV. P6
DATE OF PLOT: 10/29/2019 4:31:54 PM	

RIGHT-OF-WAY & OWNERSHIP DATA		NC-AL-097.000	NC-AL-097.000.WBC	NC-AL-104.000	NC-AL-103.000	NC-AL-106.000
PIPE / COATING		5	8	5		5
SLOPE DISTANCE						
CLASS LOCATION / HCA		2		1		
ENVIRONMENTAL						
CONSTRUCTION EXCLUSION						
WETLAND / STREAM			S-B18-16 296 LF	W-B18-19 63 LF	S-B18-20 2 LF	S-A19-331 34 LF



DRAWING NO.	DESCRIPTION
W-AL-097.000	STONY CREEK RESERVOIR
PA-ALNC-H-650-12A	ACCESS ROAD ALIGNMENT SHEET
WXP-ALNC-H-650-011	DEEP CREEK CONVENTIONAL BORE
MVP 51	WATERBODY CONVENTIONAL BORE



CONSTRUCTION METHOD	CONSTRUCTION METHOD KEY
3 - NON-PARALLEL CONSTRUCTION WITH TOP SOIL SEGREGATION	3
5 - ROAD X-ING BORED	5
7 - RAILROAD X-ING BORED	7
9 - WATERBODY X-ING OPEN CUT - FLUME	9
12 - HORIZONTAL DIRECTIONAL DRILL (HDD)	12
13 - PARALLEL TO POWER LINES	13
17 - PARALLEL TO FOREIGN LINES	17
25 - ROAD X-ING BORED WITH PARALLEL PIPELINES	25
27 - RAILROAD X-ING BORED WITH PARALLEL PIPELINES	27
29 - WATERBODY X-ING WITH PARALLEL PIPELINES OPEN CUT - FLUME	29
51 - TYPICAL WATERBODY CONVENTIONAL BORE	51



REV. NO.	DATE	DESCRIPTION
1	08/13/18	ISSUED FOR REVIEW
2	08/20/18	FERC DRAWING CLIENT REVIEW
3	11/02/18	ISSUED FOR FERC
4	03/20/19	ISSUED FOR FERC SUPPLEMENTAL FILING
5	10/24/19	ISSUED FOR FERC SUPPLEMENTAL FILING

APPROVED FOR CONSTRUCTION	DATE

Mountain Valley PIPELINE LLC
PIPELINE ALIGNMENT
MVP SOUTHGATE PROJECT - H-650 LINE
ALAMANCE COUNTY, NORTH CAROLINA
STA. 3345+00 TO STA. 3389+00

APPROVED FOR BIDDING	DATE

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-650-12

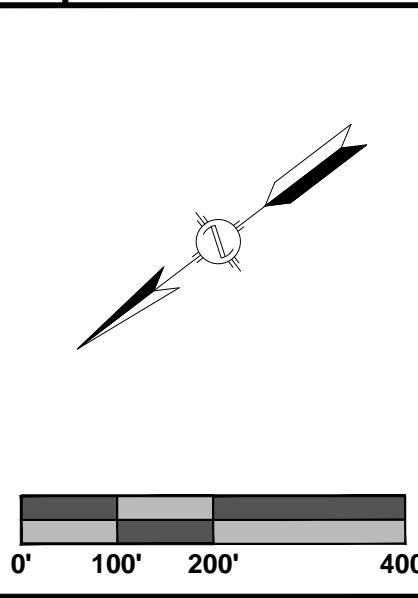
SHEET: 68 OF 77 REV P6

DATE OF PLOT: 10/8/2019 4:32:22 PM

RIGHT-OF-WAY & OWNERSHIP DATA

DESIGN	PIPE / COATING
	SLOPE DISTANCE
	CLASS LOCATION / HCA

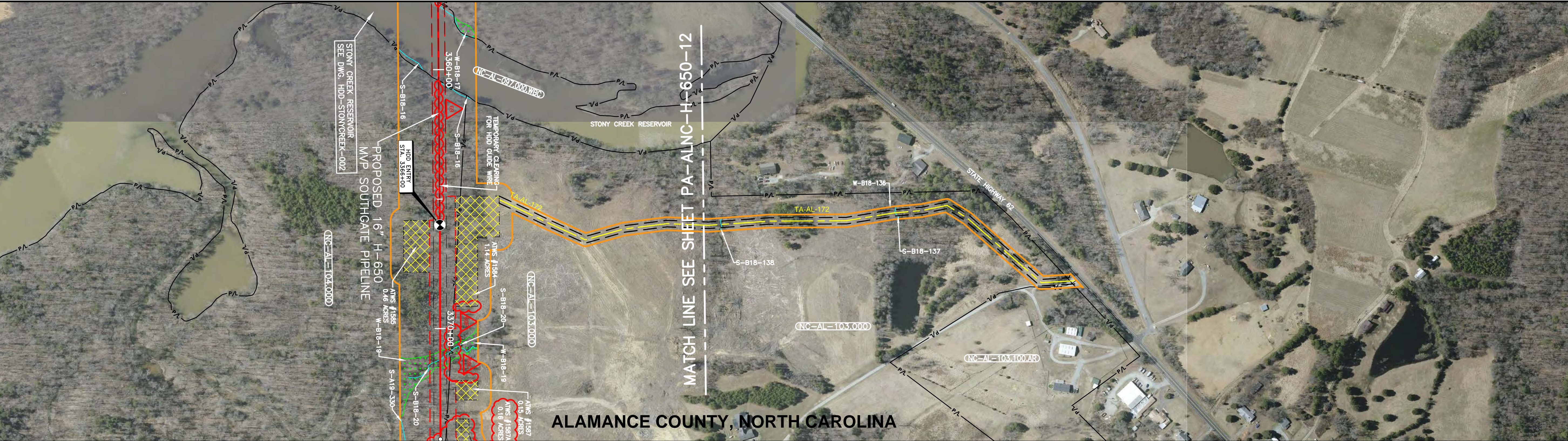
ENVIRONMENTAL	CONSTRUCTION EXCLUSION
	WETLAND / STREAM



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
- CL RAILROAD
- STREAM
- WETLAND
- MAILBOX
- PI SYMBOL
- 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



ALAMANCE COUNTY, NORTH CAROLINA

ISSUED FOR FERC SUPPLEMENTAL FILING

REFERENCE DRAWINGS

DRAWING NO.	DESCRIPTION
PA-ALNC-H-650-12	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

- 5 - 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
P1	TRC 10/20/19
ISSUED FOR FERC SUPPLEMENTAL FILING	

MATERIAL SUMMARY	
DESCRIPTION	QTY.

APPROVED FOR CONSTRUCTION	
REV. BY	DATE

APPROVED FOR BIDDING	
REV. BY	DATE

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-172

HORZ. SCALE: 1" = 200'

DRAWN BY: TRC 07/02/18

DRAFTING CK:

ENGINEERING CK:

CONSTRUCTION CK:

ENVIRONMENTAL CK:

AFE/PO NO.:

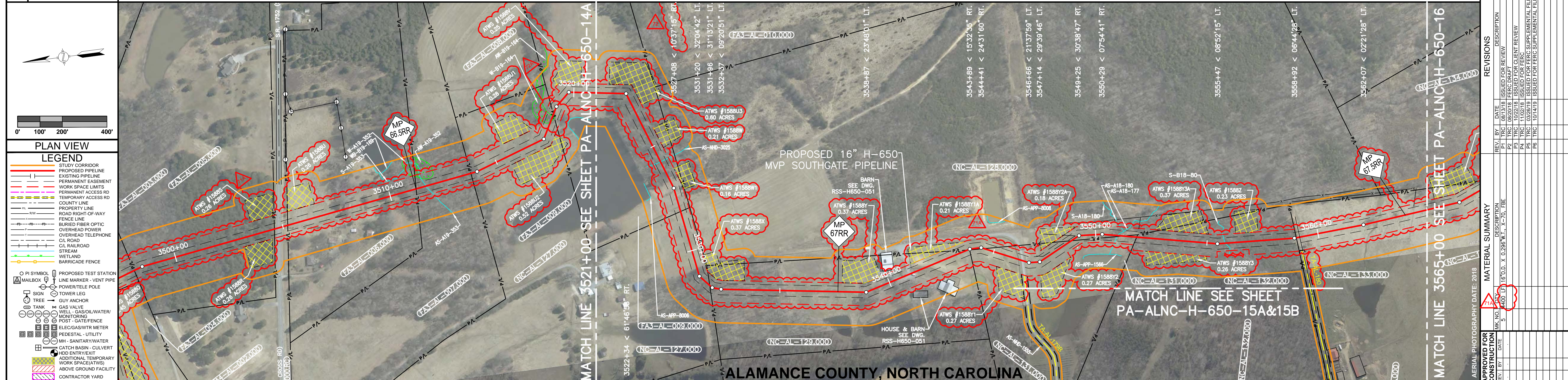
TRC PROJECT NO.: 300423

DRAWING NO.: PA-ALNC-H-650-12A

REV. P1

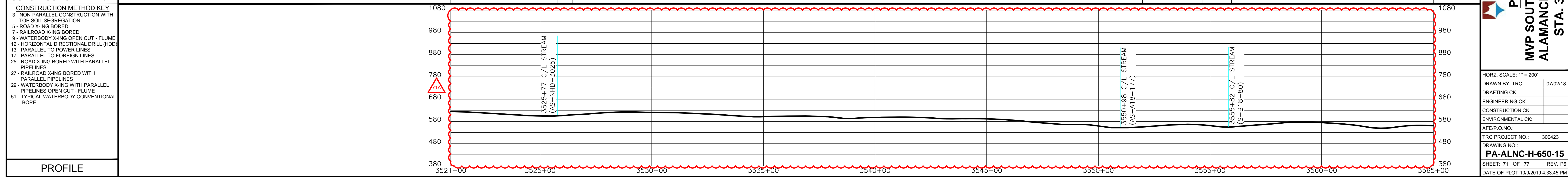
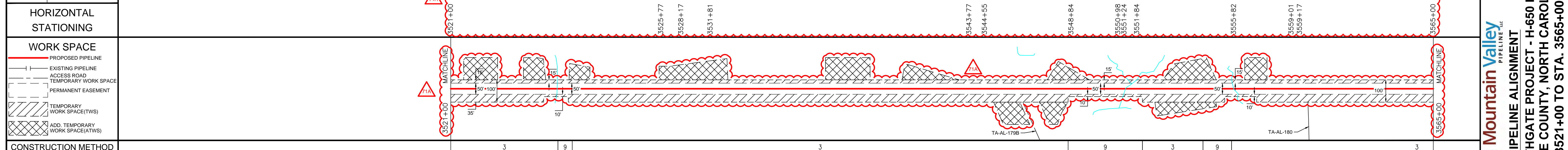
DATE OF PLOT: 10/3/2019 9:16:15 AM

RIGHT-OF-WAY & OWNERSHIP DATA		FA3-AL-009.000	NC-AL-127.000	NC-AL-129.000	NC-AL-128.000	NC-AL-131.000	NC-AL-128.000	NC-AL-131.000	NC-AL-132.000	NC-AL-133.000
DESIGN		717 LF	364 LF	1196 LF	78 LF	429 LF	240 LF	60 LF	717 LF	599 LF
ENVIRONMENTAL		AS-NHD-3025		AS-A18-177		S-B18-80				
		5 LF		5 LF		1 LF				



<p>PLAN VIEW</p> <p>LEGEND</p> <ul style="list-style-type: none"> 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 STREAM WETLAND BARRICADE FENCE PROPOSED TEST STATION MAILBOX LINE MARKER - VENT PIPE TELEFOLE TOWER LEG SIGN TREE GUY ANCHOR TANK GAS VALVE WELL - OIL/WATER MONITORING POST - GATE/FENCE ELEC/GAS/WTR METER PEDESTAL - UTILITY MH - SANITARY/WATER CATCH BASIN - CULVERT ROAD ENTRANCE ADDITIONAL TEMPORARY WORK SPACE(TWS) ABOVE GROUND FACILITY CONTRACTOR YARD 	<p>REVISIONS</p> <table border="1"> <tr><th>REV. BY</th><th>DATE</th><th>DESCRIPTION</th></tr> <tr><td>P1</td><td>TRC</td><td>08/13/19 ISSUED FOR REVIEW</td></tr> <tr><td>P2</td><td>TRC</td><td>08/20/19 FERC DRAWING CLIENT REVIEW</td></tr> <tr><td>P3</td><td>TRC</td><td>11/02/19 ISSUED FOR FERC</td></tr> <tr><td>P4</td><td>TRC</td><td>03/20/20 ISSUED FOR FERC SUPPLEMENTAL FILING</td></tr> <tr><td>P5</td><td>TRC</td><td>10/14/20 ISSUED FOR FERC SUPPLEMENTAL FILING</td></tr> <tr><td>P6</td><td>TRC</td><td></td></tr> </table> <p>MATERIAL SUMMARY</p> <table border="1"> <tr><th>REV. BY</th><th>DATE</th><th>DESCRIPTION</th></tr> <tr><td>5</td><td>TRC</td><td>10/14/20 X 0.285 MI. X-70, FEE</td></tr> </table> <p>APPROVED FOR CONSTRUCTION</p> <table border="1"> <tr><th>REV. BY</th><th>DATE</th><th>DESCRIPTION</th></tr> <tr><td>5</td><td>TRC</td><td>10/14/20 X 0.285 MI. X-70, FEE</td></tr> </table> <p>APPROVED FOR BIDDING</p> <table border="1"> <tr><th>REV. BY</th><th>DATE</th><th>DESCRIPTION</th></tr> <tr><td>5</td><td>TRC</td><td>10/14/20 X 0.285 MI. X-70, FEE</td></tr> </table> <p>APPROVED FOR FERC</p> <table border="1"> <tr><th>REV. BY</th><th>DATE</th><th>DESCRIPTION</th></tr> <tr><td>5</td><td>TRC</td><td>10/14/20 X 0.285 MI. X-70, FEE</td></tr> </table>	REV. BY	DATE	DESCRIPTION	P1	TRC	08/13/19 ISSUED FOR REVIEW	P2	TRC	08/20/19 FERC DRAWING CLIENT REVIEW	P3	TRC	11/02/19 ISSUED FOR FERC	P4	TRC	03/20/20 ISSUED FOR FERC SUPPLEMENTAL FILING	P5	TRC	10/14/20 ISSUED FOR FERC SUPPLEMENTAL FILING	P6	TRC		REV. BY	DATE	DESCRIPTION	5	TRC	10/14/20 X 0.285 MI. X-70, FEE	REV. BY	DATE	DESCRIPTION	5	TRC	10/14/20 X 0.285 MI. X-70, FEE	REV. BY	DATE	DESCRIPTION	5	TRC	10/14/20 X 0.285 MI. X-70, FEE	REV. BY	DATE	DESCRIPTION	5	TRC	10/14/20 X 0.285 MI. X-70, FEE
REV. BY	DATE	DESCRIPTION																																												
P1	TRC	08/13/19 ISSUED FOR REVIEW																																												
P2	TRC	08/20/19 FERC DRAWING CLIENT REVIEW																																												
P3	TRC	11/02/19 ISSUED FOR FERC																																												
P4	TRC	03/20/20 ISSUED FOR FERC SUPPLEMENTAL FILING																																												
P5	TRC	10/14/20 ISSUED FOR FERC SUPPLEMENTAL FILING																																												
P6	TRC																																													
REV. BY	DATE	DESCRIPTION																																												
5	TRC	10/14/20 X 0.285 MI. X-70, FEE																																												
REV. BY	DATE	DESCRIPTION																																												
5	TRC	10/14/20 X 0.285 MI. X-70, FEE																																												
REV. BY	DATE	DESCRIPTION																																												
5	TRC	10/14/20 X 0.285 MI. X-70, FEE																																												
REV. BY	DATE	DESCRIPTION																																												
5	TRC	10/14/20 X 0.285 MI. X-70, FEE																																												

<p>REFERENCE DRAWINGS</p> <table border="1"> <tr><th>DRAWING NO.</th><th>DESCRIPTION</th></tr> <tr><td>PA-ALNC-H-650-15A</td><td>ACCESS ROAD ALIGNMENT SHEET</td></tr> <tr><td>PA-ALNC-H-650-15B</td><td>ACCESS ROAD ALIGNMENT SHEET</td></tr> <tr><td>RSS-H650-051</td><td>RESIDENTIAL SITE SPECIFIC</td></tr> </table>	DRAWING NO.	DESCRIPTION	PA-ALNC-H-650-15A	ACCESS ROAD ALIGNMENT SHEET	PA-ALNC-H-650-15B	ACCESS ROAD ALIGNMENT SHEET	RSS-H650-051	RESIDENTIAL SITE SPECIFIC	<p>ISSUED FOR FERC SUPPLEMENTAL FILING</p>
DRAWING NO.	DESCRIPTION								
PA-ALNC-H-650-15A	ACCESS ROAD ALIGNMENT SHEET								
PA-ALNC-H-650-15B	ACCESS ROAD ALIGNMENT SHEET								
RSS-H650-051	RESIDENTIAL SITE SPECIFIC								



<p>CONSTRUCTION METHOD</p> <p>CONSTRUCTION METHOD KEY</p> <ul style="list-style-type: none"> 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 BORED WITH PARALLEL PIPELINES OPEN CUT - FLUME 51 - TYPICAL WATERBODY CONVENTIONAL BORE 	<p>PROFILE</p>
---	----------------



AERIAL PHOTOGRAPHY DATE: 2018

APPROVED FOR CONSTRUCTION

REV. BY	DATE	DESCRIPTION
5	TRC	10/14/20 X 0.285 MI. X-70, FEE

APPROVED FOR BIDDING

REV. BY	DATE	DESCRIPTION
5	TRC	10/14/20 X 0.285 MI. X-70, FEE

APPROVED FOR FERC

REV. BY	DATE	DESCRIPTION
5	TRC	10/14/20 X 0.285 MI. X-70, FEE

Mountain Valley
PIPELINE LLC

PIPELINE ALIGNMENT
MVP SOUTHGATE PROJECT - H-650 LINE
ALAMANCE COUNTY, NORTH CAROLINA
STA. 3521+00 TO STA. 3565+00

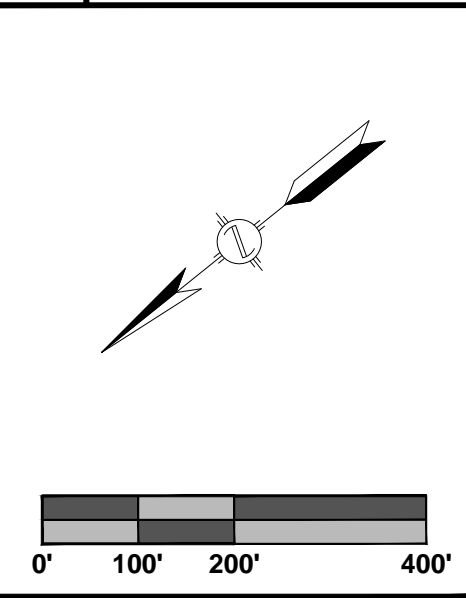
HORIZ. SCALE: 1" = 200'

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-650-15
 SHEET: 71 OF 77 REV. P6
 DATE OF PLOT: 10/20/2019 4:33:45 PM

RIGHT-OF-WAY & OWNERSHIP DATA

DESIGN
PIPE / COATING
SLOPE DISTANCE
CLASS LOCATION / HCA

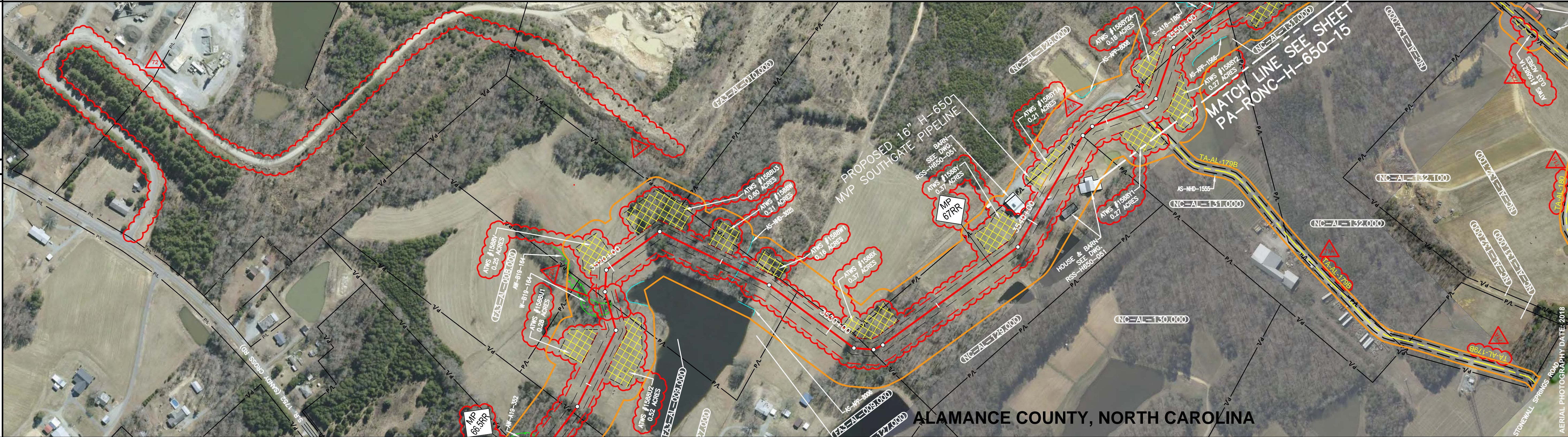
ENVIRONMENTAL
CONSTRUCTION EXCLUSION
WETLAND / STREAM



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
- CL RAILROAD
- STREAM
- 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



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

- 5 - 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	03/20/19	ISSUED FOR FERC SUPPLEMENTAL FILING

MATERIAL SUMMARY

DESCRIPTION	QTY.

APPROVED FOR CONSTRUCTION

REV. BY	DATE

APPROVED FOR BIDDING

REV. BY	DATE

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-179B

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

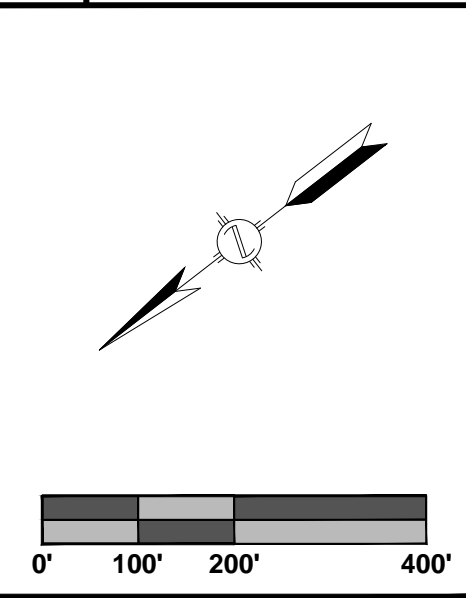
REV. P1

DATE OF PLOT: 10/3/2019 9:16:38 AM

RIGHT-OF-WAY & OWNERSHIP DATA

DESIGN
PIPE / COATING
SLOPE DISTANCE
CLASS LOCATION / HCA

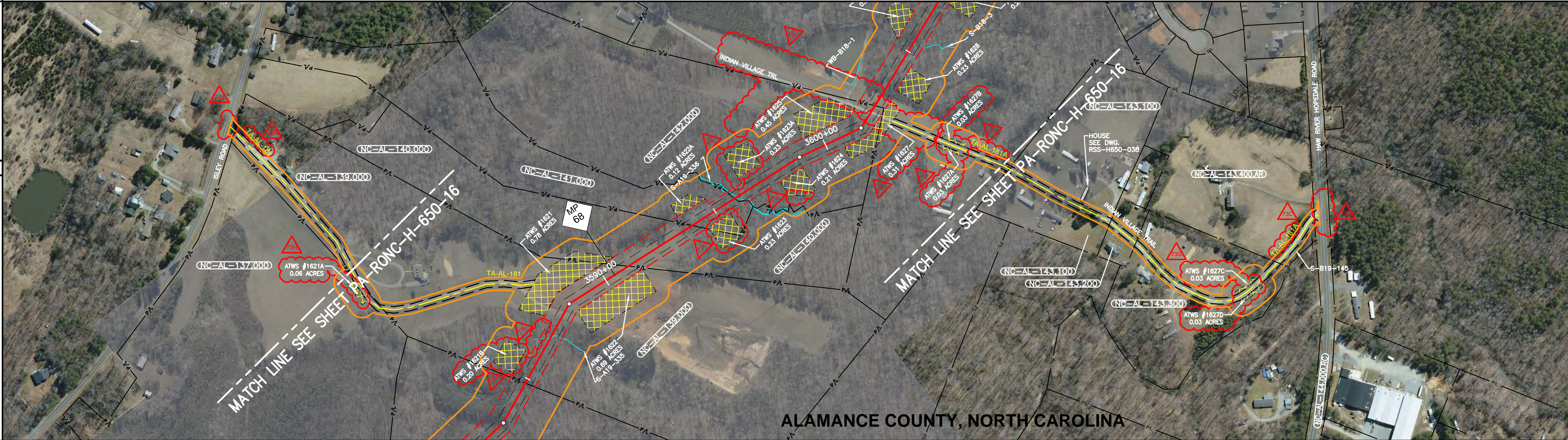
ENVIRONMENTAL
CONSTRUCTION EXCLUSION
WETLAND / STREAM



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
- CL RAILROAD
- STREAM
- WETLAND
- 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



REFERENCE DRAWINGS

DRAWING NO.	DESCRIPTION
PA-ALNC-H-650-16	ALIGNMENT SHEET
RSS-H650-038	RESIDENTIAL SITE SPECIFIC

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

- 5 - 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	10/20/19	ISSUED FOR FERC SUPPLEMENTAL FILING

MATERIAL SUMMARY

DESCRIPTION	QTY.

APPROVED FOR CONSTRUCTION

REV. BY	DATE

APPROVED FOR FERC

REV. BY	DATE

ISSUED FOR FERC SUPPLEMENTAL FILING

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.:

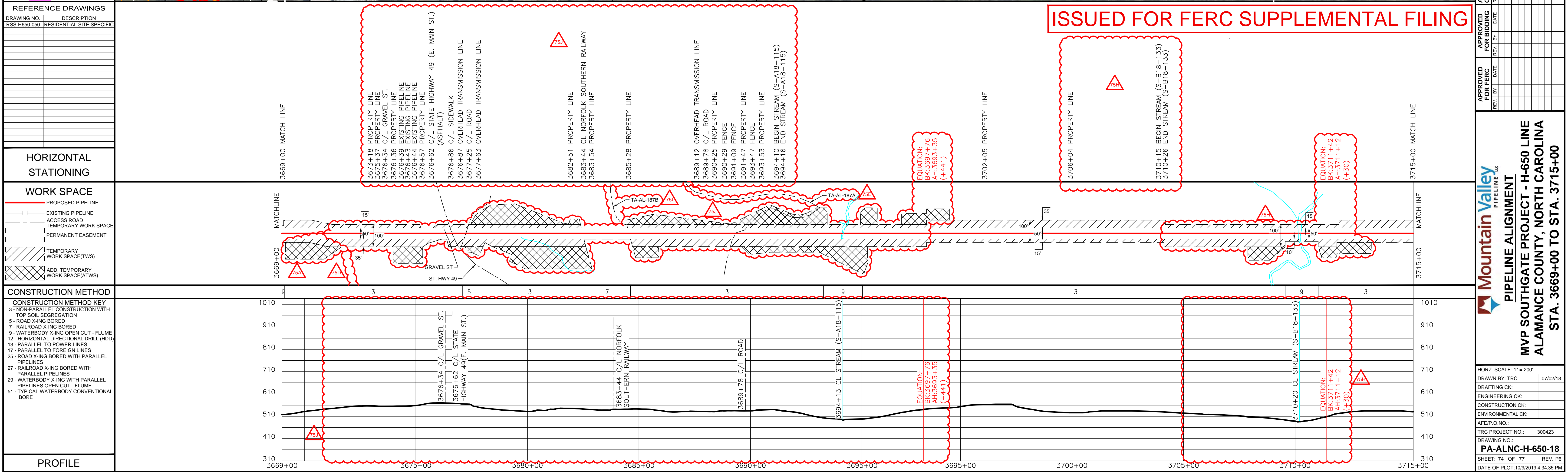
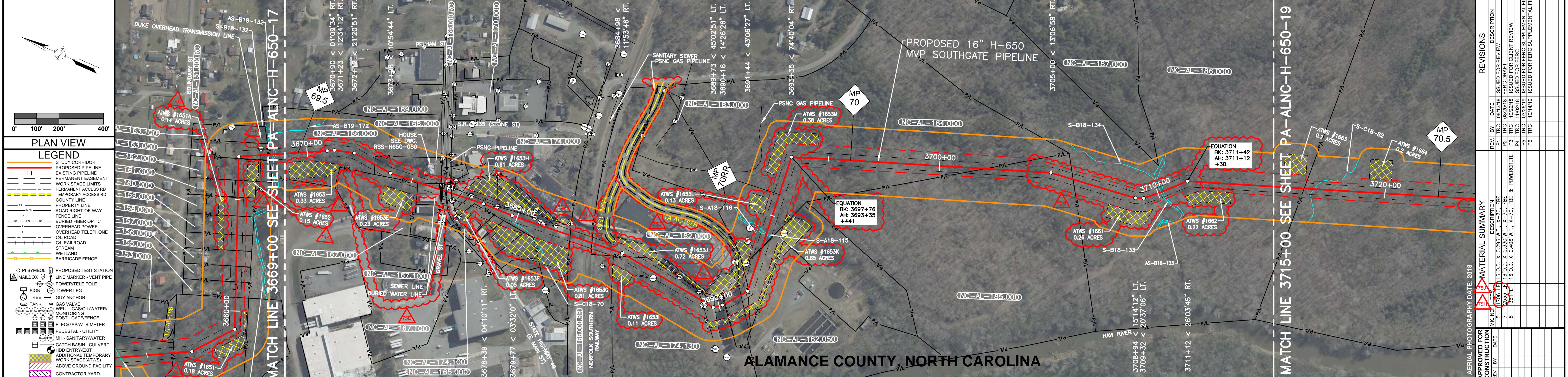
TRC PROJECT NO.: 300423

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

REV. P1

DATE OF PLOT: 10/30/2019 9:17:11 AM

RIGHT-OF-WAY & OWNERSHIP DATA		NC-AL-166.000	NC-AL-168.000	NC-AL-167.100	NC-AL-166.000.RC	NC-AL-174.000	NC-AL-166.000.RR	NC-AL-182.000	NC-AL-174.130	NC-AL-182.000	NC-AL-182.050	NC-AL-184.000	NC-AL-185.000	NC-AL-186.000
DESIGN	PIPE / COATING	418 LF	219 LF	99 LF	21 LF	594 LF	103 LF	174 LF	497 LF	122 LF	206 LF	852 LF	399 LF	926 LF
DESIGN	SLOPE DISTANCE													
DESIGN	CLASS LOCATION / HCA													
ENVIRONMENTAL	CONSTRUCTION EXCLUSION													
ENVIRONMENTAL	WETLAND / STREAM								S-A18-115 6 LF			S-B18-133 11 LF		



PLAN VIEW LEGEND

- STUDY CORRIDOR
- PROPOSED PIPELINE
- EXISTING PIPELINE
- PERMANENT EASEMENT
- WORK SPACE LIMITS
- TEMPORARY WORK SPACE
- 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
- STREAM
- WETLAND
- BARRICADE FENCE
- PROPOSED TEST STATION
- LINE MARKER - VENT PIPE
- LINE MARKER - 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 ENTRANCE
- ADDITIONAL TEMPORARY WORK SPACE(ATWS)
- ABOVE GROUND FACILITY
- CONTRACTOR YARD

REFERENCE DRAWINGS

DRAWING NO.	DESCRIPTION
RSS-H650-050	RESIDENTIAL SITE SPECIFIC

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
- 8 - WATERBODY X-ING OPEN CUT - FLUME
- 12 - HORIZONTAL DIRECTIONAL DRILL (HDD)
- 17 - 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
- 51 - TYPICAL WATERBODY CONVENTIONAL BORE

PROFILE

TRC
Results you can rely on

REVISIONS

REV.	BY	DATE	DESCRIPTION
1	TRC	08/13/18	ISSUED FOR REVIEW
2	TRC	08/20/18	FERC DRAWING CLIENT REVIEW
3	TRC	11/02/18	ISSUED FOR FERC
4	TRC	03/20/19	ISSUED FOR FERC SUPPLEMENTAL FILING
5	TRC	10/24/19	ISSUED FOR FERC SUPPLEMENTAL FILING

MATERIAL SUMMARY

NO.	DATE	DESCRIPTION
1	10/06/18	16.00 LF X 0.256" M.T. X-70, FBE
2	10/06/18	16.00 LF X 0.300" M.T. X-70, FBE
3	10/06/18	16.00 LF X 0.300" M.T. X-70, FBE
4	10/06/18	16.00 LF X 0.300" M.T. X-70, FBE
5	10/06/18	16.00 LF X 0.300" M.T. X-70, FBE
6	10/06/18	16.00 LF X 0.300" M.T. X-70, FBE
7	10/06/18	16.00 LF X 0.300" M.T. X-70, FBE
8	10/06/18	16.00 LF X 0.300" M.T. X-70, FBE
9	10/06/18	16.00 LF X 0.300" M.T. X-70, FBE
10	10/06/18	16.00 LF X 0.300" M.T. X-70, FBE

APPROVED FOR CONSTRUCTION

APPROVED FOR BIDDING

APPROVED FOR FERC

AERIAL PHOTOGRAPHY DATE: 2018

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/PI.O.NO.:

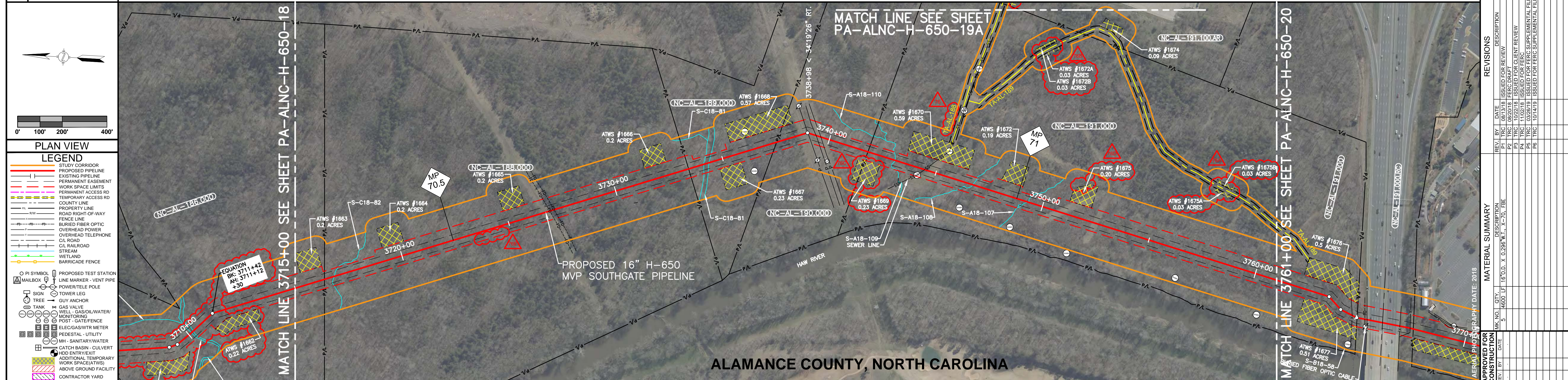
TRC PROJECT NO.: 300423

DRAWING NO.: PA-ALNC-H-650-18

SHEET: 74 OF 77 REV. P6

DATE OF PLOT: 10/09/2019 4:34:35 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	3733+41	3737+53	3741+81	3761+00
		137 LF	1704 LF	412 LF	428 LF	1919 LF
DESIGN	PIPE / COATING					
	SLOPE DISTANCE	5				
	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



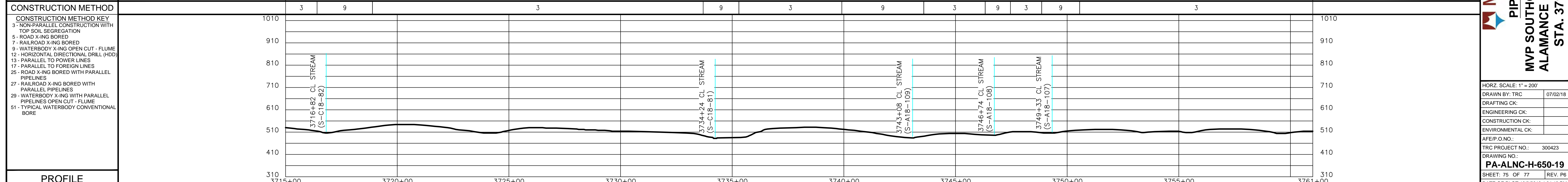
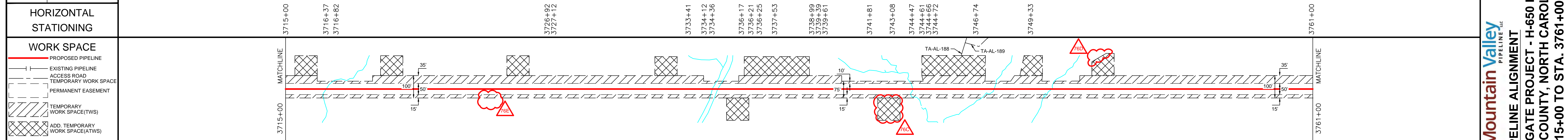
PLAN VIEW

LEGEND

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

REFERENCE DRAWINGS

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



ISSUED FOR FERC SUPPLEMENTAL FILING



REVISIONS

REV.	BY	DATE	DESCRIPTION
P1	TRC	08/31/18	ISSUED FOR REVIEW
P2	TRC	09/20/18	FERC DRAFTER CLIENT REVIEW
P3	TRC	11/02/18	ISSUED FOR FERC
P4	TRC	03/20/19	ISSUED FOR FERC SUPPLEMENTAL FILING
P5	TRC	10/24/19	ISSUED FOR FERC SUPPLEMENTAL FILING
P6	TRC	10/24/19	ISSUED FOR FERC SUPPLEMENTAL FILING

MATERIAL SUMMARY

MARK	QTY.	DESCRIPTION
5	4600 LF	18" O.D. X 0.285" W.T. X-70. FIBER

APPROVED FOR CONSTRUCTION

REV.	BY	DATE

APPROVED FOR BIDDING

REV.	BY	DATE

APPROVED FOR FERC

REV.	BY	DATE

Mountain Valley PIPELINE LLC

PIPELINE ALIGNMENT

MVP SOUTHGATE PROJECT - H-650 LINE

ALAMANCE COUNTY, NORTH CAROLINA

STA. 3715+00 TO STA. 3761+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

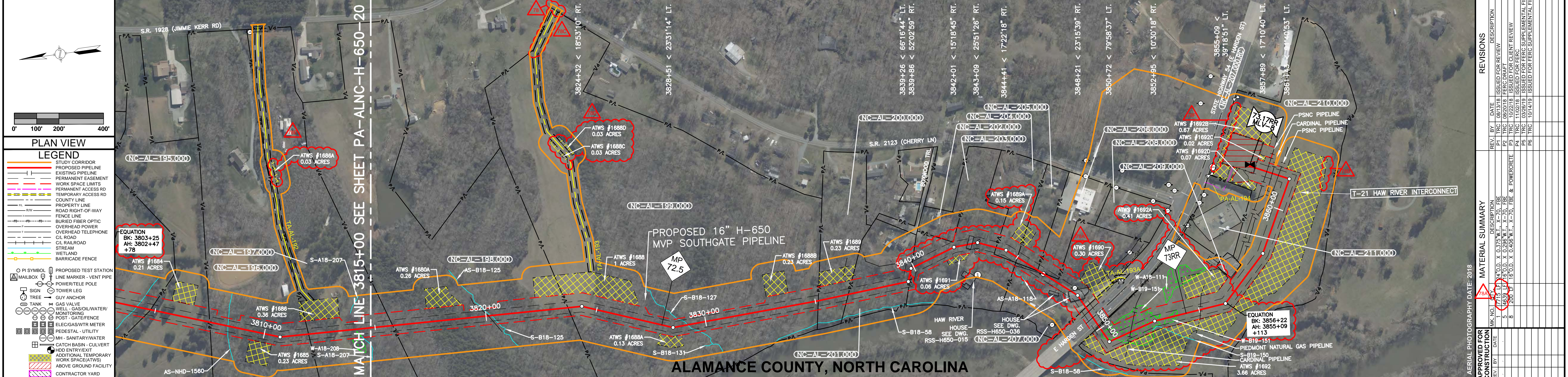
DRAWING NO.:

PA-ALNC-H-650-19

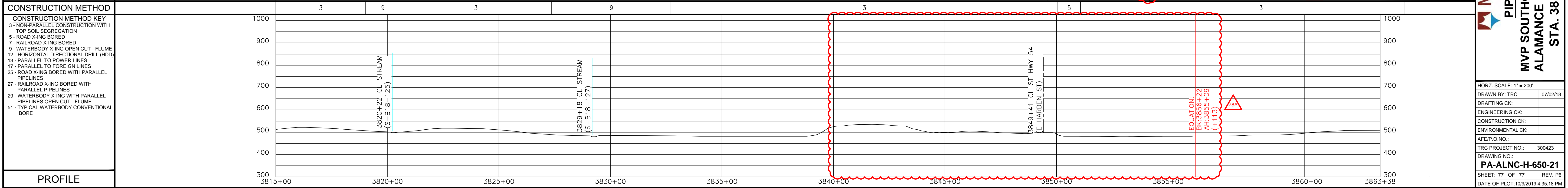
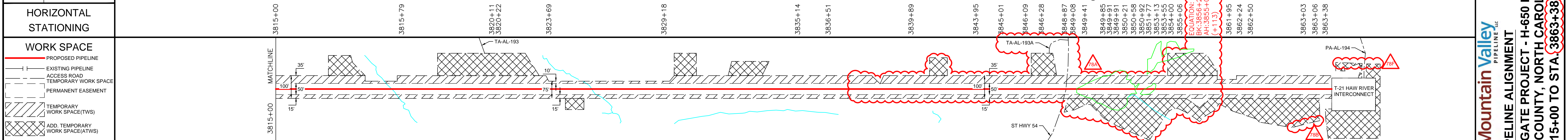
SHEET: 75 OF 77 REV. P6

DATE OF PLOT: 10/29/2019 4:34:48 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	3863+38		
	79 LF	790 LF	1145 LF	137 LF	338 LF	406 LF	106 LF	108 LF	3846+09	19 LF	259 LF	104 LF	1460 LF	3563+38		
DESIGN	PIPE / COATING															
	SLOPE DISTANCE															
	CLASS LOCATION / HCA	1														
ENVIRONMENTAL	CONSTRUCTION EXCLUSION															
	WETLAND / STREAM	S-B18-125 3 LF			S-B18-127 5 LF			W-B19-151 37 LF			W-B19-151 221 LF			W-B19-151 45 LF		



REFERENCE DRAWINGS	DRAWING NO.	DESCRIPTION
	XXX-1100-01	PROPOSED T-21 HAW RIVER INTERCONNECT
	RSS-H650-015	RESIDENTIAL SITE SPECIFIC
	RSS-H650-036	RESIDENTIAL SITE SPECIFIC



REVISIONS	REV. NO.	DATE	DESCRIPTION
	P1	08/13/18	ISSUED FOR REVIEW
	P2	08/20/18	FERC DRAWING CLIENT REVIEW
	P3	11/02/18	ISSUED FOR FERC
	P5	03/20/19	ISSUED FOR FERC SUPPLEMENTAL FILING
	P6	10/14/19	ISSUED FOR FERC SUPPLEMENTAL FILING

APPROVED FOR CONSTRUCTION	REV. BY	DATE

APPROVED FOR BIDDING	REV. BY	DATE

Mountain Valley PIPELINE LLC

PIPELINE ALIGNMENT

MVP SOUTHGATE PROJECT - H-650 LINE

ALAMANCE COUNTY, NORTH CAROLINA

STA. 3815+00 TO STA. 3863+38

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. P6

DATE OF PLOT: 10/8/2019 4:35:18 PM