RIGHT-OF-WAY & OWNERSHIP DATA

| | | |

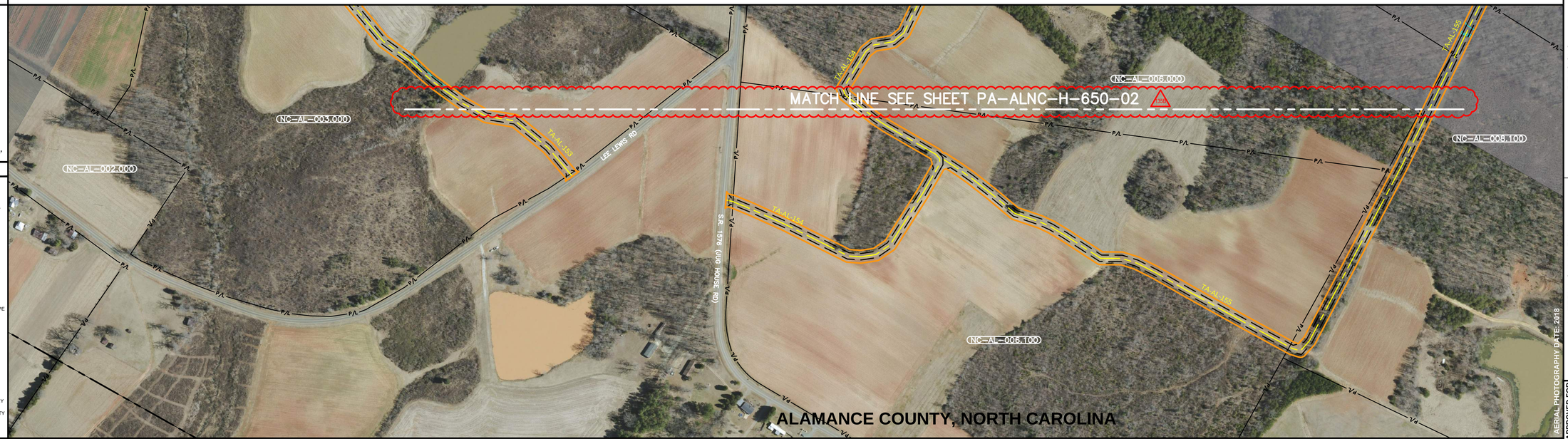
RIGHT-OF-WAY & OWNERSHIP DATA

| | | |

RIGHT-OF-WAY & OWNERSHIP DATA

DESIGN
- PIPE / COATING
- SLOPE DISTANCE
- CLASS LOCATION / HCA

ENVIRONMENTAL
- CONSTRUCTION EXCLUSION
- WETLAND / STREAM
- .
- .



0' 100' 200' 400'

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
- C/L ROAD
- C/L RAILROAD
- DELINEATED STREAM
- DELINEATED WETLAND
- PI SYMBOL
- MAILBOX
- LINE MARKER - VENT PIPE
- POWER/TELE POLE
- TOWER LEG
- TANK
- 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

TRC — Results you can rely on

REVISIONS

REV.	BY	DATE	DESCRIPTION
P1	TRC	03/26/19	ISSUED FOR FERC SUPPLEMENTAL FILING

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION

AERIAL PHOTOGRAPHY DATE: 2018

APPROVED FOR CONSTRUCTION			
REV.	BY	DATE	
-	-	-	

APPROVED FOR BIDDING			
REV.	BY	DATE	
-	-	-	

APPROVED FOR FERC		
REV.	BY	DATE
-	-	-

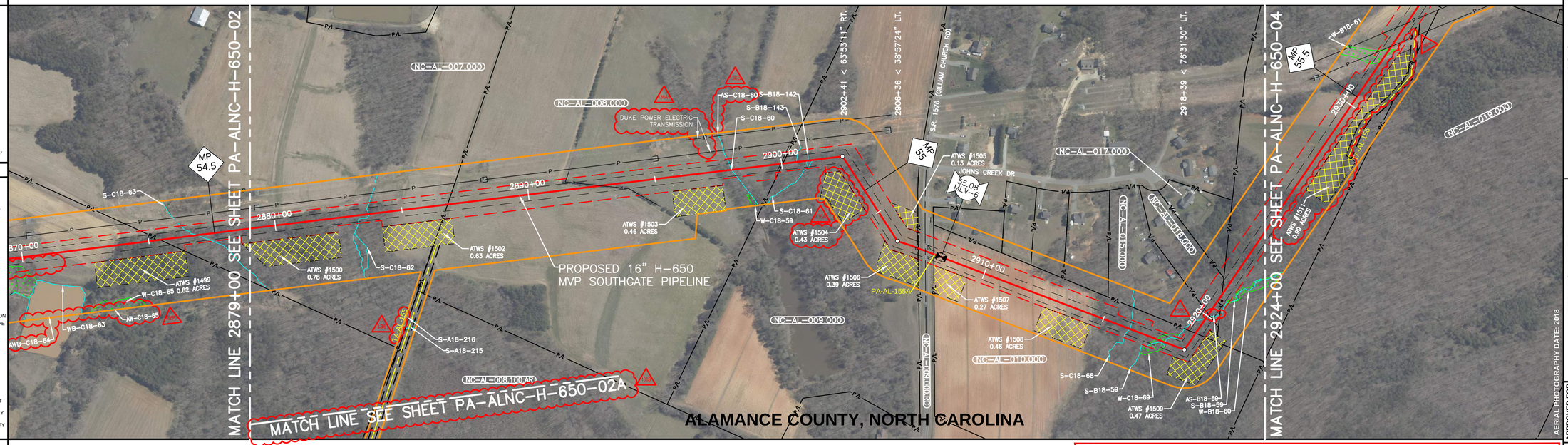
Mountain Valley PIPELINE, LLC

ACCESS ROAD

MVP SOUTHGATE PROJECT - H-650 LINE
ALAMANCE COUNTY, NORTH CAROLINA
ACCESS ROADS TA-AL-153, 154, & 155

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:3/27/2019 5:26:08 PM	

RIGHT-OF-WAY & OWNERSHIP DATA		2879+00	NC-AL-007.000 781 LF	2886+81	NC-AL-008.000 1324 LF	2900+05	NC-AL-009.000 718 LF	2907+23	NC-AL-009.000.RC S.R. 1576 (GILLIAM CHURCH RD) 66 LF	2907+89	NC-AL-010.000 1129 LF	2919+18	NC-AL-015.000 90 LF	2920+08	NC-AL-016.000 93 LF	2921+01	NC-AL-018.000 299 LF	2924+00
DESIGN	PIPE / COATING	2879+00	8					2907+11	9	2907+97	8							2924+00
	SLOPE DISTANCE																	
	CLASS LOCATION / HCA		1								2							
ENVIRONMENTAL	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		W-C18-69 37 LF		S-B18-59 3 LF	S-B18-59 3 LF
	.																	
	.																	



0' 100' 200' 400'

PLAN VIEW

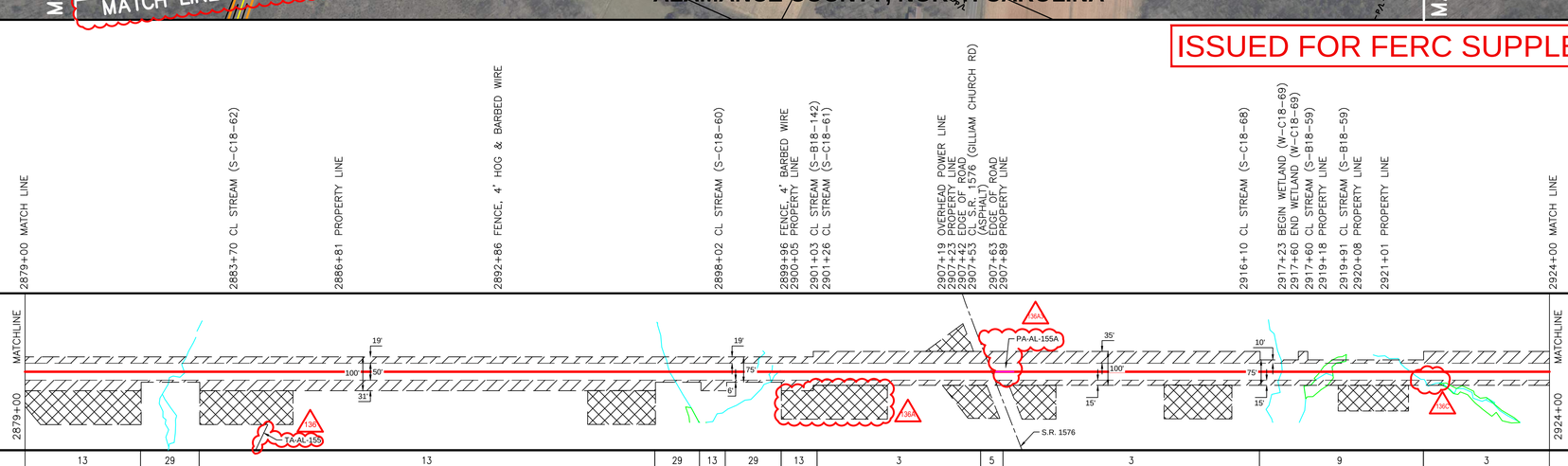
LEGEND

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

REFERENCE DRAWINGS

DRAWING NO.	DESCRIPTION
X-X-XXXX-1100-01	PROPOSED MAIN LINE VALVE PLOT PLAN
PA-ALNC-H-650-02A	ACCESS ROAD 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)

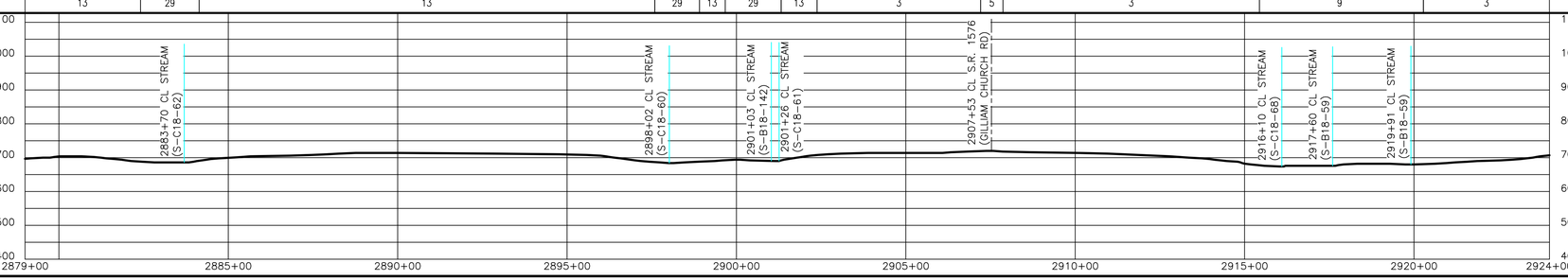
CONSTRUCTION METHOD

13	29	13	29	13	29	13	3	5	3	9	3

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

TRC
Results you can rely on

REVISIONS

REV.	BY	DATE	DESCRIPTION
P1	TRC	08/13/18	ISSUED FOR REVIEW
P2	TRC	08/20/18	FERC DRAFT
P3	TRC	10/22/18	ISSUED FOR CLIENT REVIEW
P4	TRC	03/26/19	ISSUED FOR FERC
P5	TRC	03/26/19	ISSUED FOR FERC SUPPLEMENTAL FILING

AERIAL PHOTOGRAPHY DATE: 2018

MATERIAL SUMMARY

MILAGE	QTY.	DESCRIPTION
8	4414 LF	16"O.D. X 0.375"W.T. X-65, FBE & POWERCRETE
9	66 LF	16"O.D. X 0.375"W.T. X-65, FBE & POWERCRETE

APPROVED FOR CONSTRUCTION

REV.	BY	DATE
-	-	-

APPROVED FOR BIDDING

REV.	BY	DATE
-	-	-

APPROVED FOR FERC

REV.	BY	DATE
-	-	-

Mountain Valley PIPELINE, LLC

PIPELINE ALIGNMENT

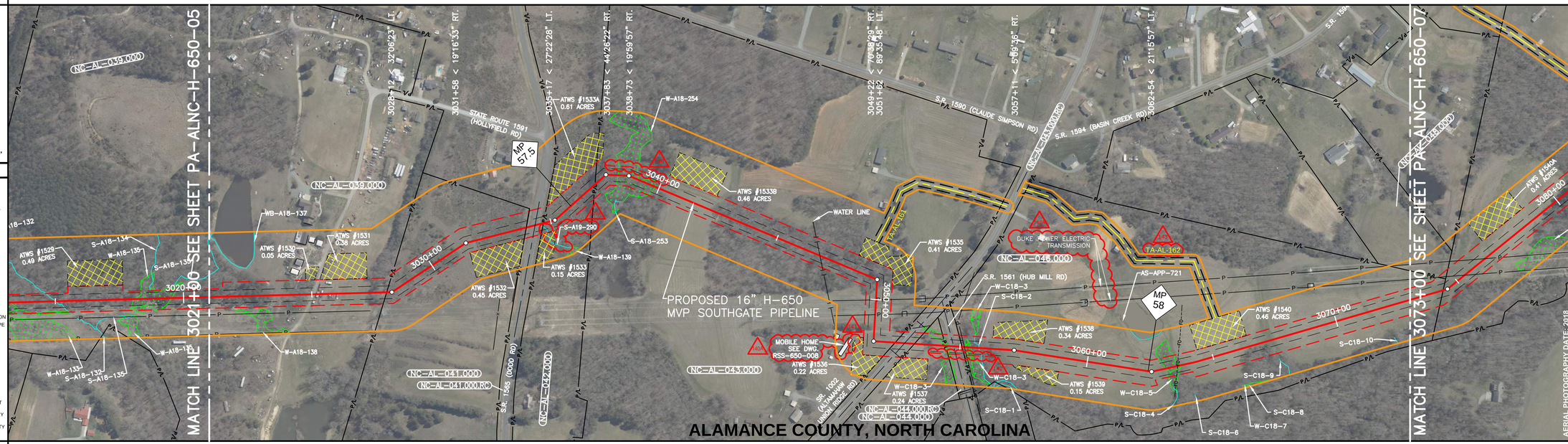
MVP SOUTHGATE PROJECT - H-650 LINE
ALAMANCE COUNTY, NORTH CAROLINA
STA. 2879+00 TO STA. 2924+00

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: P5
DATE OF PLOT:3/27/2019 5:20:42 PM	

| | | |

| | | |

RIGHT-OF-WAY & OWNERSHIP DATA		3021+00	NC-AL-039.000 692 LF	3027+92	NC-AL-041.000 610 LF	3034+02	NC-AL-041.000.RC S.R. 1565 (DODD RD) 69 LF	3034+71	NC-AL-042.000 255 LF	3037+26	NC-AL-043.000 1521 LF	3052+47	NC-AL-043.000.RC S.R. 1002 (ALTAMAHAW UNION RIDGE RD) 75 LF	3053+22	NC-AL-044.000 122 LF	3054+44	NC-AL-044.000.RC S.R. 1561 (HUBB MILL RD) 64 LF	3055+08	NC-AL-046.000 1792 LF	3073+00
DESIGN	PIPE / COATING	3021+00	8			3033+90	9	3034+79			8	3052+34	9	3053+30	8	3054+32	9	3055+16	8	3073+00
	SLOPE DISTANCE																			
	CLASS LOCATION / HCA		2							1		2							1	2
ENVIRONMENTAL	CONSTRUCTION EXCLUSION																			
	WETLAND / STREAM										W-A18-254 154 LF				W-C18-3 13 LF		W-C18-3 20 LF		S-C18-2 1 LF				W-C18-5 52 LF	
	.																			
	.																			



0' 100' 200' 400'

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

REFERENCE DRAWINGS

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

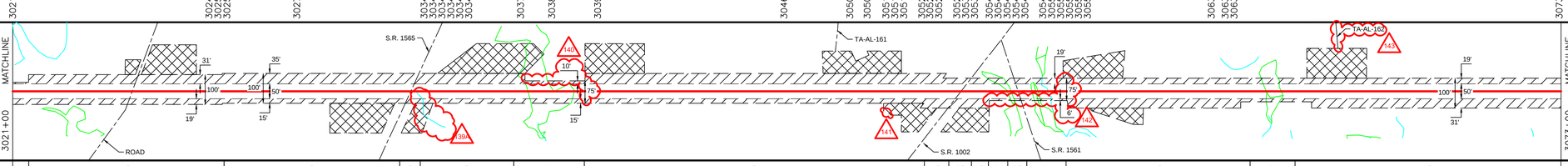
140

HORIZONTAL STATIONING

3021+00 MATCH LINE
3024+97 EDGE OF ROAD
3025+02 CL HOLLYFIELD RD(GRAVEL)
3025+06 EDGE OF ROAD
3027+92 PROPERTY LINE
3034+02 PROPERTY LINE
3034+05 OVERHEAD POWER LINE
3034+26 EDGE OF ROAD (DODD RD)(ASPHALT)
3034+37 CL S.R. 1565
3034+47 EDGE OF ROAD
3034+71 PROPERTY LINE
3037+26 PROPERTY LINE
3038+31 BEGIN WETLAND (W-A18-254)
3039+85 END WETLAND (W-A18-254)
3046+80 WATER LINE
3050+01 OVERHEAD TRANSMISSION LINE
3050+59 OVERHEAD TRANSMISSION LINE
3051+22 EDGE OF ROAD
3051+25 CL ROAD (GRAVEL)
3051+29 EDGE OF ROAD
3052+47 PROPERTY LINE
3052+70 EDGE OF ROAD
3052+84 CL S.R. 1002 (ALTAMAHAW UNION RIDGE RD)(ASPHALT)
3052+97 EDGE OF ROAD
3053+22 PROPERTY LINE
3053+22 OVERHEAD POWER LINE
3054+39 BEGIN WETLAND (W-C18-3)
3054+44 PROPERTY LINE
3054+62 END WETLAND (W-C18-3)
3054+66 EDGE OF ROAD
3054+75 CL S.R. 1561 (HUB MILL ROAD) (ASPHALT)
3054+86 EDGE OF ROAD
3055+17 PROPERTY LINE
3055+17 OVERHEAD POWER LINE
3055+22 BEGIN WETLAND (W-C18-3)
3055+42 END WETLAND (W-C18-3)
3055+75 CL STREAM (S-C18-2)
3063+12 BEGIN WETLAND (W-C18-5)
3063+58 BURIED FIBER OPTIC CABLE
3063+64 END WETLAND (W-C18-5)
3073+00 MATCH LINE

WORK SPACE

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



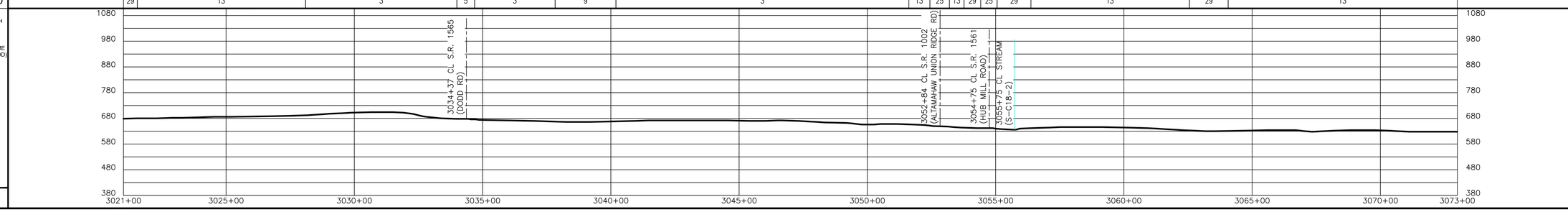
CONSTRUCTION METHOD

29	13	3	5	3	9	3	13	25	13	29	25	29	13	29	13

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

TRC
Results you can rely on

REVISIONS

REV.	BY	DATE	DESCRIPTION
P1	TRC	08/13/18	ISSUED FOR REVIEW
P2	TRC	08/20/18	FERC DRAFT
P3	TRC	10/22/18	ISSUED FOR CLIENT REVIEW
P4	TRC	03/05/19	ISSUED FOR FERC
P5	TRC	03/26/19	ISSUED FOR FERC SUPPLEMENTAL FILING

MATERIAL SUMMARY

MK NO.	QTY.	DESCRIPTION
8	14931 LF	16"O.D. X 0.375"W.T. X-65, FBE PIPE
9	2269 LF	16"O.D. X 0.375"W.T. X-65, FBE & POWERCRETE

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

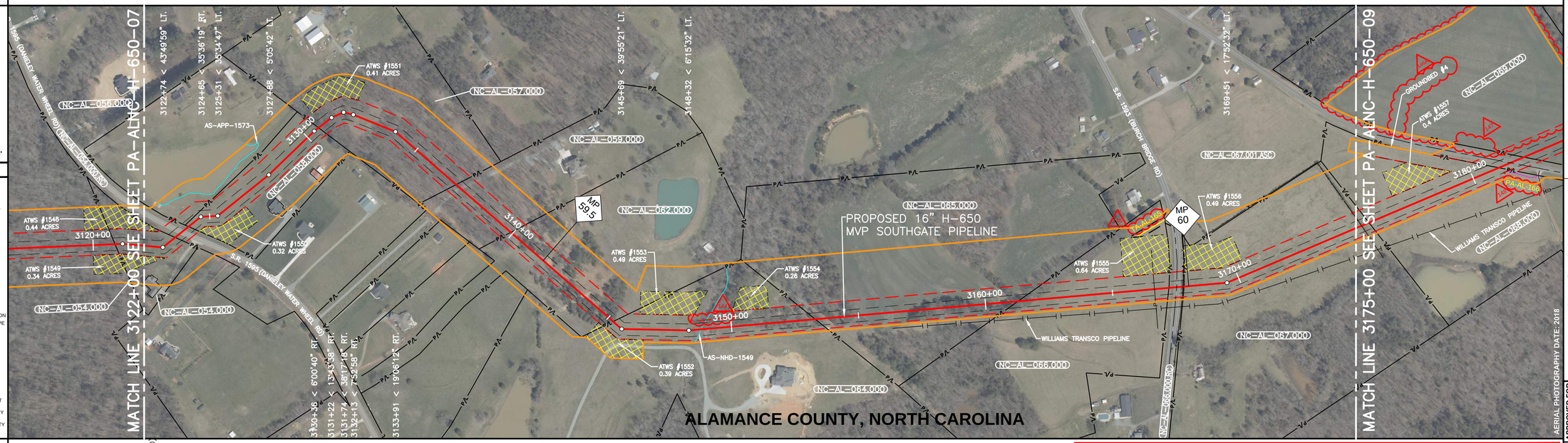
PIPELINE ALIGNMENT

MVP SOUTHGATE PROJECT - H-650 LINE
ALAMANCE COUNTY, NORTH CAROLINA
STA. 3021+00 TO STA. 3073+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-650-06**
SHEET: 62 OF 77	REV. P5
DATE OF PLOT:3/27/2019 5:21:29 PM	

| | | |

RIGHT-OF-WAY & OWNERSHIP DATA		3122+00	NC–AL–054.000 136 LF	3123+36	NC–AL–054.000.RC S.R.1595 (DANIELEY WATER WHEEL RD) 67 LF	3124+03	NC–AL–058.000 654 LF	3130+57	NC–AL–057.000 650 LF	3137+07	NC–AL–059.000 285 LF	3139+92	NC–AL–062.000 532 LF	3145+24	NC–AL–064.000 806 LF	3153+30	NC–AL–065.000 798 LF	3161+28	NC–AL–066.000 594 LF	3167+22	NC–AL–066.000.RC S.R.1593 (BURCH BRIDGE RD) 59 LF	3167+81	NC–AL–067.000 719 LF	3175+00
DESIGN	PIPE / COATING	3122+00	8	3123+25	9	3124+12	8													3167+11	9	3167+88	8	3175+00	
	SLOPE DISTANCE																								
	CLASS LOCATION / HCA		2				1								2								1		
ENVIRONMENTAL	CONSTRUCTION EXCLUSION																								
	WETLAND / STREAM												AS–NHD–1549 5 LF												
	.																								
	.																								



0' 100' 200' 400'

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

REFERENCE DRAWINGS

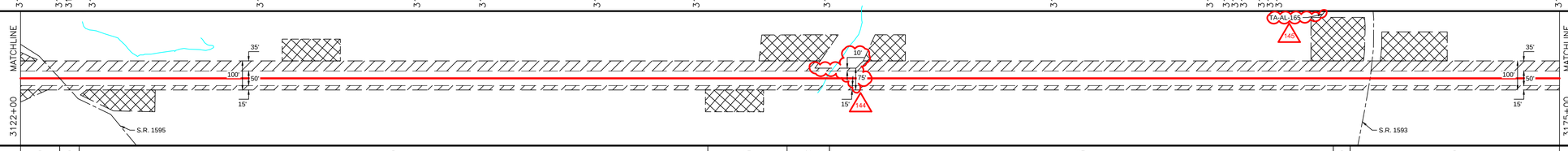
DRAWING NO.	DESCRIPTION

HORIZONTAL STATIONING

3122+00 MATCH LINE; 3123+36 PROPERTY LINE; 3123+70 CL S.R. 1595 (DANIELEY WATER WHEEL RD) (ASPHALT); 3124+03 PROPERTY LINE; 3130+57 PROPERTY LINE; 3137+07 PROPERTY LINE; 3139+92 PROPERTY LINE; 3145+24 PROPERTY LINE; 3148+80 CL STREAM (AS–NHD–1549); 3153+30 PROPERTY LINE; 3161+28 PROPERTY LINE; 3166+65 OVERHEAD POWER LINE; 3167+22 PROPERTY LINE; 3167+41 EDGE OF ROAD; 3167+53 CL S.R. 1593 (BURCH BRIDGE RD) (ASPHALT); 3167+65 EDGE OF ROAD; 3167+78 FENCE, 4" BARBED WIRE; 3167+81 PROPERTY LINE; 3175+00 MATCH LINE

WORK SPACE

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



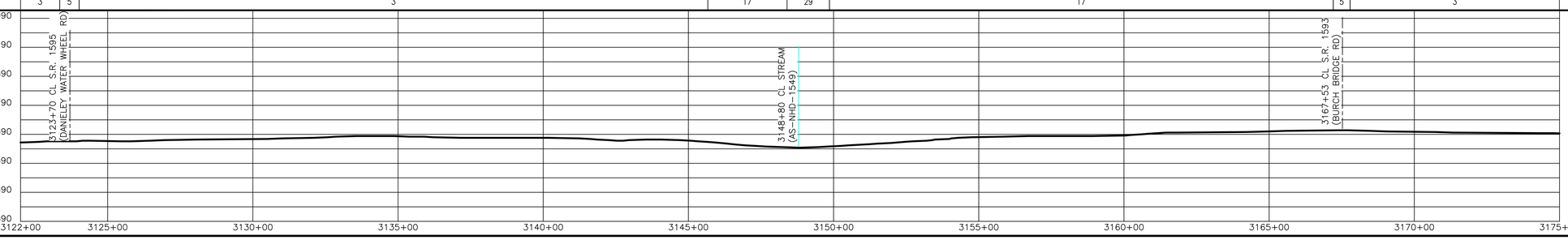
CONSTRUCTION METHOD

3	5	3	17	29	17	5	3

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

AERIAL PHOTOGRAPHY DATE: 2018

TRC — Results you can rely on

REVISIONS

REV.#	BY	DATE	DESCRIPTION
P1	TRC	08/13/18	ISSUED FOR REVIEW
P2	TRC	08/20/18	FERC DRAFT
P3	TRC	10/22/18	ISSUED FOR CLIENT REVIEW
P4	TRC	03/01/19	ISSUED FOR FERC
P5	TRC	03/26/19	ISSUED FOR FERC SUPPLEMENTAL FILING

MATERIAL SUMMARY

MK NO.	QTY.	DESCRIPTION
8	8,135 LF	16"O.D. X 0.375"W.T. X-65, FBE
9	165 LF	16"O.D. X 0.375"W.T. X-65, FBE & POWERCRETE

APPROVED FOR CONSTRUCTION			APPROVED FOR BIDDING			APPROVED FOR FERC		
REV.	BY	DATE	REV.	BY	DATE	REV.	BY	DATE
-	-	-	-	-	-	-	-	-

Mountain Valley PIPELINE LLC

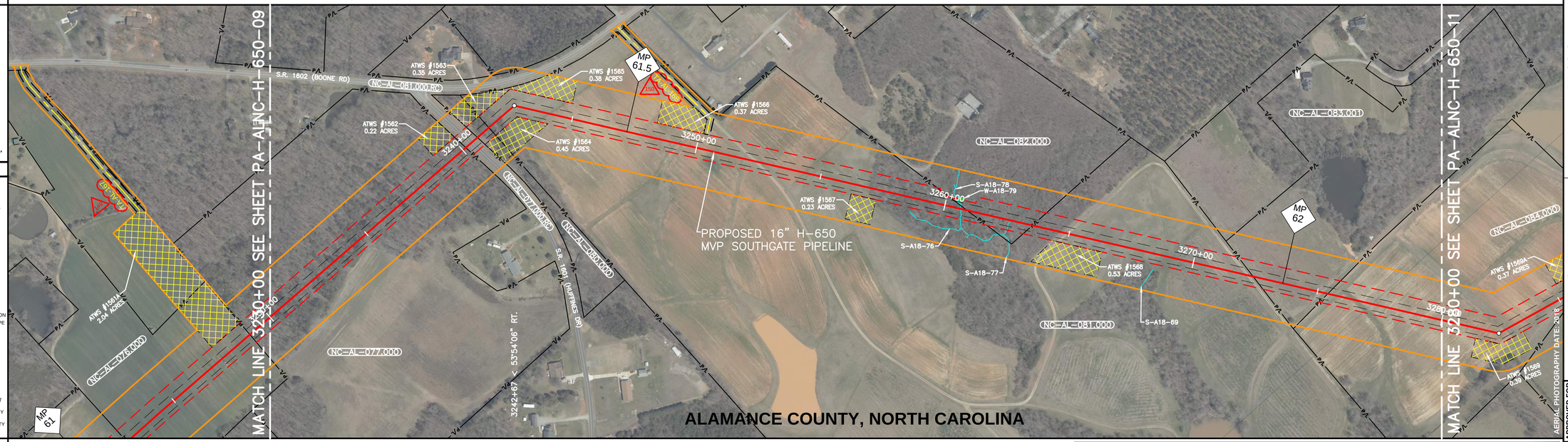
PIPELINE ALIGNMENT

MVP SOUTHGATE PROJECT - H-650 LINE
ALAMANCE COUNTY, NORTH CAROLINA
STA. 3122+00 TO STA. 3175+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-650-08
SHEET: 64 OF 77	REV. P5
DATE OF PLOT:3/27/2019 5:22:03 PM	

| | | |

RIGHT-OF-WAY & OWNERSHIP DATA		3230+00	NC-AL-077.000	3240+16	NC-AL-077.000.RC S.R.1601 (HUFFINES DRIVE)	3240+76	NC-AL-080.000	3241+35	NC-AL-081.000	3260+89	NC-AL-082.000	3263+52	NC-AL-081.000	3272+41	NC-AL-083.001	3275+41	NC-AL-084.000	3280+00
			1016 LF		60 LF		59 LF		1954 LF		263 LF		889 LF		300 LF		459 LF	
DESIGN	PIPE / COATING	3230+00	8	3240+04	9	3240+84			8									3280+00
	SLOPE DISTANCE																	
	CLASS LOCATION / HCA								1									
ENVIRONMENTAL	CONSTRUCTION EXCLUSION																	
	WETLAND / STREAM										S-A18-78 2 LF							
	.																	
	.																	

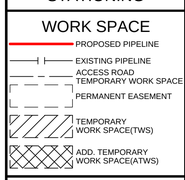


REFERENCE DRAWINGS

DRAWING NO.	DESCRIPTION

HORIZONTAL STATIONING

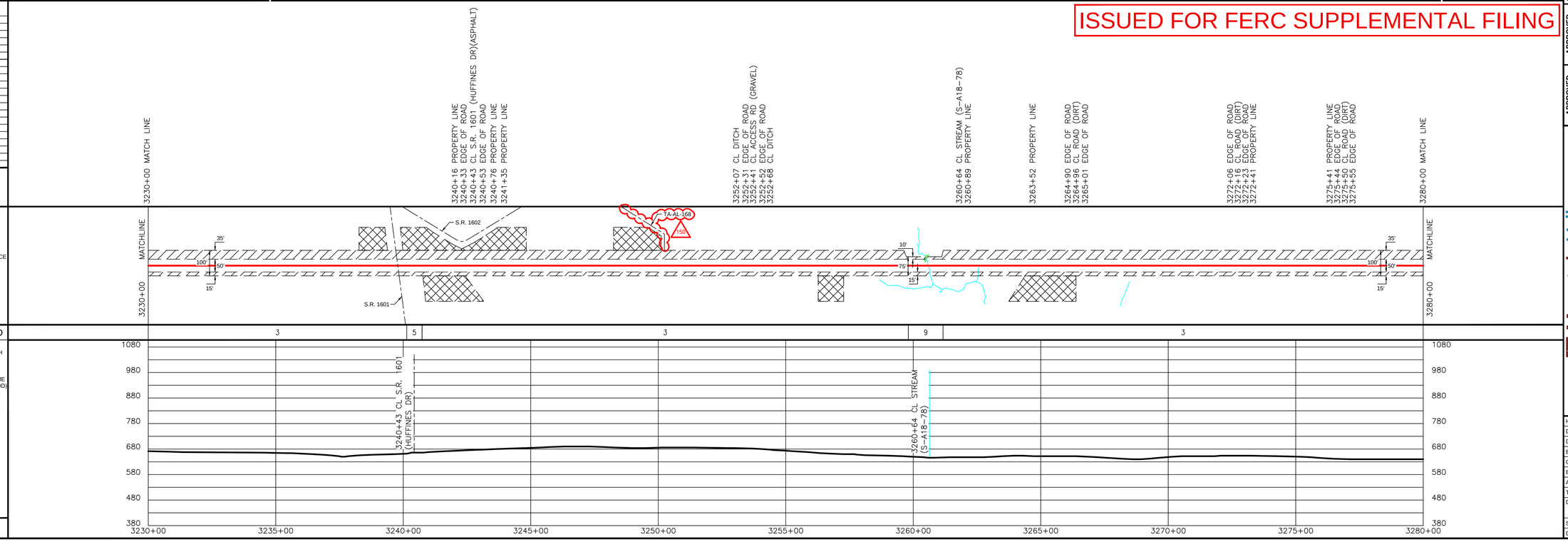
WORK SPACE



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



TRC — Results you can rely on

REVISIONS

REV.	BY	DATE	DESCRIPTION
P1	TRC	08/13/18	ISSUED FOR REVIEW
P2	TRC	08/20/18	FERC DRAFT
P3	TRC	10/22/18	ISSUED FOR CLIENT REVIEW
P4	TRC	03/05/19	ISSUED FOR FERC
P5	TRC	03/26/19	ISSUED FOR FERC SUPPLEMENTAL FILING

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
8	4920 LF	16"O.D. X 0.375"W.T. X-65, FBE & POWERCRETE
9	80 LF	16"O.D. X 0.375"W.T. X-65, FBE & POWERCRETE

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

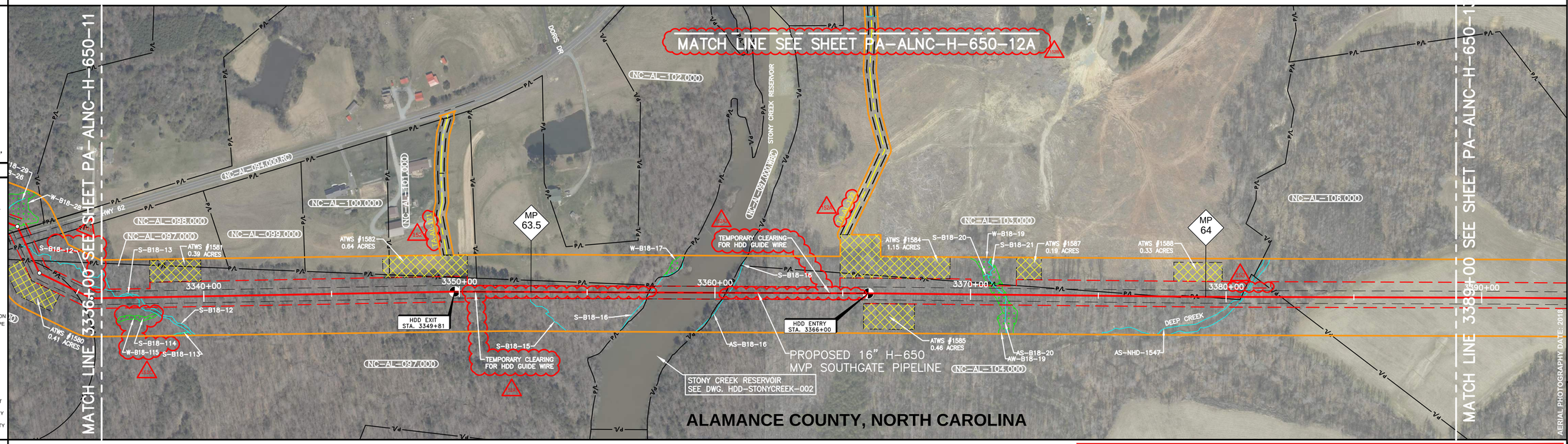
PIPELINE ALIGNMENT

MVP SOUTHGATE PROJECT - H-650 LINE
ALAMANCE COUNTY, NORTH CAROLINA
STA. 3230+00 TO STA. 3280+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-650-10
SHEET: 66 OF 77	REV. P5
DATE OF PLOT:3/27/2019 5:22:28 PM	

| RIGHT-OF-WAY & OWNERSHIP DATA | | |

RIGHT-OF-WAY & OWNERSHIP DATA		3336+00	NC–AL–097.000 2140 LF	3357+40	NC–AL–097.000.WBC STONY CREEK RESERVOIR 302 LF	3360+42	NC–AL–104.000 1722 LF	3377+64	NC–AL–103.000 60 LF	3378+24	NC–AL–104.000 75 LF	3378+99	NC–AL–103.000 161 LF	3380+60	NC–AL–104.000 156 LF	3382+16	NC–AL–106.000 684 LF	3389+00
DESIGN	PIPE / COATING	3336+00	8				10						8					3389+00
	SLOPE DISTANCE																	
	CLASS LOCATION / HCA		2	1	2						1							
ENVIRONMENTAL	CONSTRUCTION EXCLUSION																	
	WETLAND / STREAM			S–B18–12 21 LF					S–B18–16 304 LF				AW–B18–19 49 LF	AS–B18–20 2 LF			AS–NHD–1547 9 LF	
	.																	
	.																	



0' 100' 200' 400'

PLAN VIEW

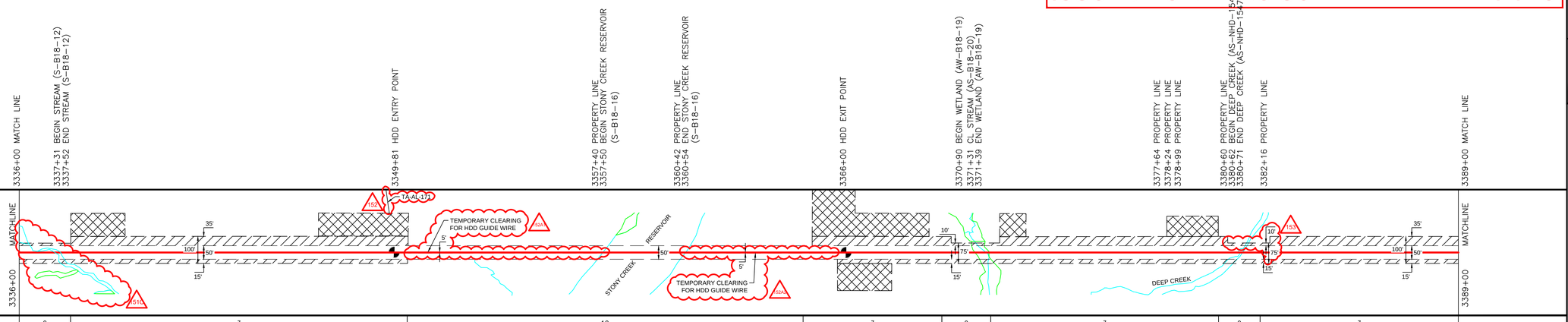
LEGEND

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

REFERENCE DRAWINGS

DRAWING NO.	DESCRIPTION
HDD-STONYCREEK-002	H-650 PIPELINE STONY CREEK HDD
PA-ALNC-H-650-12A	ACCESS ROAD 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)

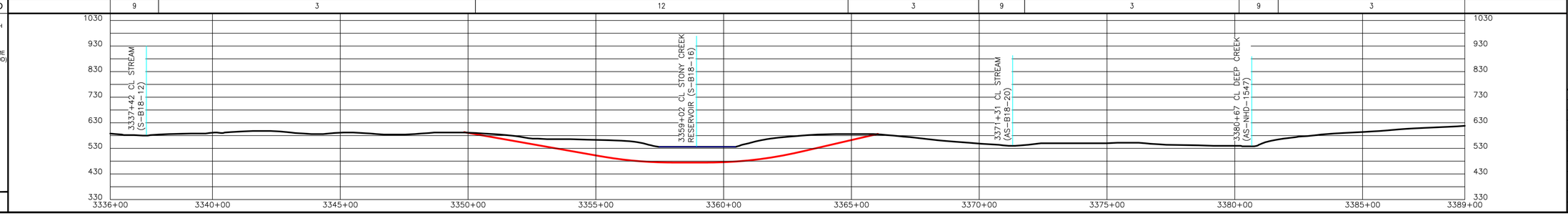
CONSTRUCTION METHOD

	9	3	12	3	9	3	9	3

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

TRC — Results you can rely on

REVISIONS

REV.	BY	DATE	DESCRIPTION
P1	TRC	08/13/18	ISSUED FOR REVIEW
P2	TRC	08/20/18	FERC DRAFT
P3	TRC	10/22/18	ISSUED FOR CLIENT REVIEW
P4	TRC	11/20/18	ISSUED FOR FERC
P5	TRC	03/26/19	ISSUED FOR FERC SUPPLEMENTAL FILING

MATERIAL SUMMARY

MK NO.	QTY.	DESCRIPTION
8	1681 LF	16"O.D. X 0.375"W.T. X-65, FBE
10	1619 LF	16"O.D. X 0.500"W.T. X-65, FBE & POWERCRETE

AERIAL PHOTOGRAPHY DATE: 2018

APPROVED FOR CONSTRUCTION			APPROVED FOR BIDDING			APPROVED FOR FERC		
REV.	BY	DATE	REV.	BY	DATE	REV.	BY	DATE
-	-	-	-	-	-	-	-	-

Mountain Valley PIPELINE LLC

PIPELINE ALIGNMENT

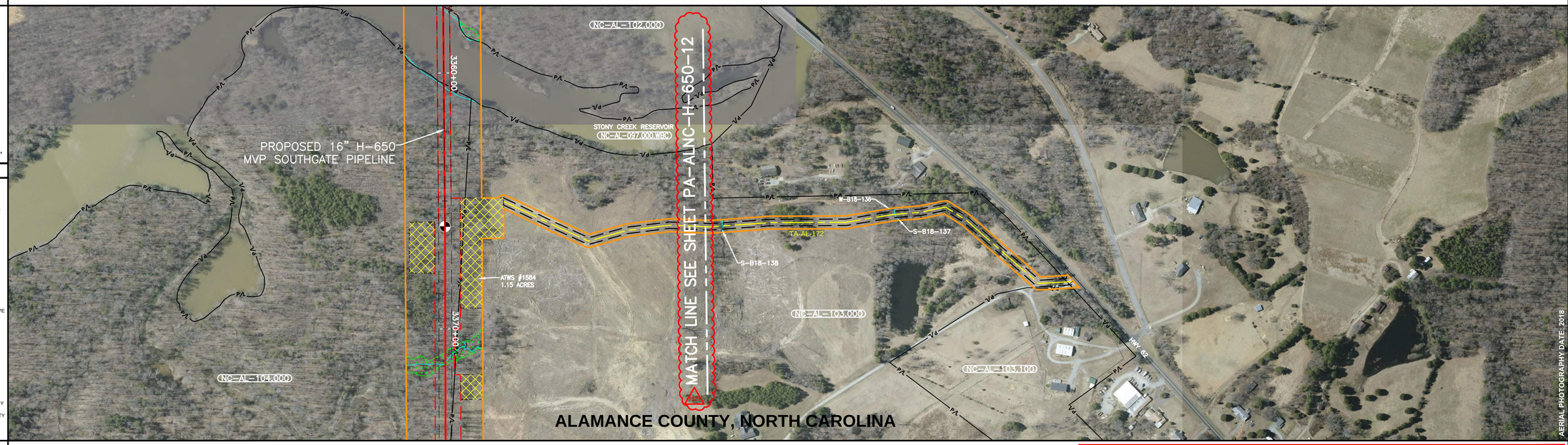
MVP SOUTHGATE PROJECT - H-650 LINE
ALAMANCE COUNTY, NORTH CAROLINA
STA. 3336+00 TO STA. 3389+00

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-650-12
SHEET: 68 OF 77	REV. P5
DATE OF PLOT:3/27/2019 5:22:56 PM	

RIGHT-OF-WAY & OWNERSHIP DATA

DESIGN
- PIPE / COATING
- SLOPE DISTANCE
- CLASS LOCATION / HCA

ENVIRONMENTAL
- CONSTRUCTION EXCLUSION
- WETLAND / STREAM
- .
- .



0' 100' 200' 400'

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
- C/L ROAD
- C/L RAILROAD
- DELINEATED STREAM
- DELINEATED WETLAND
- PI SYMBOL
- MAILBOX
- LINE MARKER - VENT PIPE
- POWER/TELE POLE
- TOWER LEG
- TANK
- 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-650-12	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
- 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

TRC
Results you can rely on

REVISIONS

REV.	BY	DATE	DESCRIPTION
P1	TRC	03/29/19	ISSUED FOR FERC SUPPLEMENTAL FILING

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION

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 ROAD TA-AL-172

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-650-12A	
	REV. P1
DATE OF PLOT:3/27/2019 5:26:22 PM	