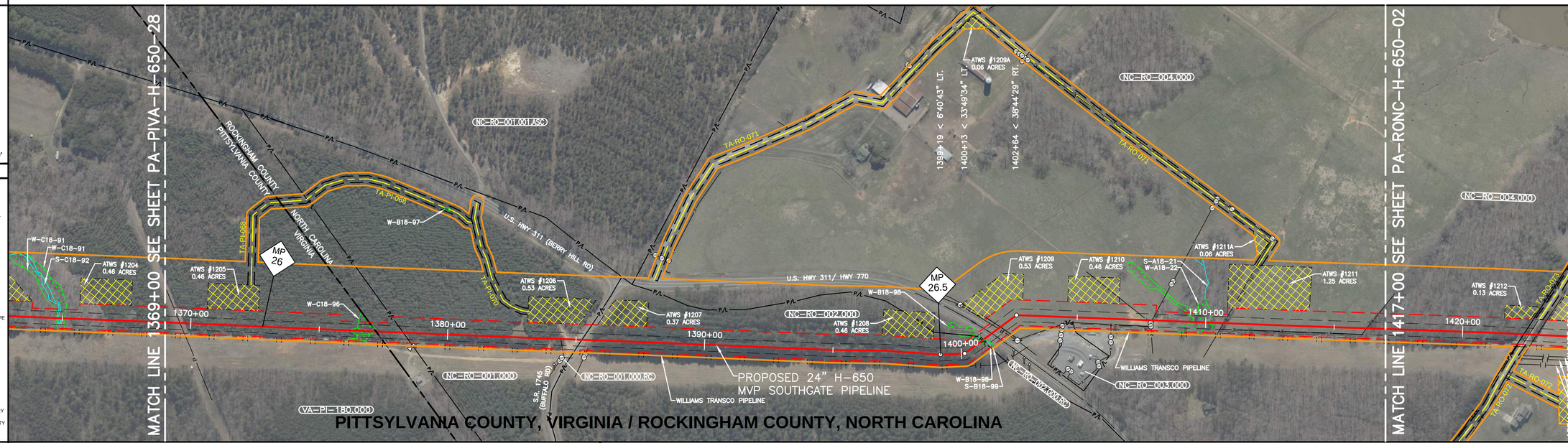
RIGHT-OF-WAY & OWNERSHIP DATA	1369+00	VA-PI-180.000 927 LF	1378+27	NC-RO-001.000 696 LF	NC-RO-001.000RC S.R. 1745 (BUFFALO RD.) 1385+23	NC-RO-002.000 1575 LF	1400+98	NC-RO-002.000RC U.S. HWY 311 / HWY 770	NC-RO-004.000 1602 LF	1417+00
DESIGN – PIPE / COATING	1369+00	1			1384+60 / 1385+50	1	1400+99	3	1401+83 1	1417+00
DESIGN – SLOPE DISTANCE										
DESIGN – CLASS LOCATION / HCA		1								
ENVIRONMENTAL – CONSTRUCTION EXCLUSION										
ENVIRONMENTAL – WETLAND / STREAM			W-C18-96 97 LF				W-B18-98 15 LF	S-B18-99 < 1 LF	W-A18-22 78 LF	
ENVIRONMENTAL – .										
ENVIRONMENTAL – .										



0' 100' 200' 400'

PLAN VIEW

LEGEND

- STUDY CORRIDOR
- PROPOSED PIPELINE
- NON-SURVEYED C/L
- 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

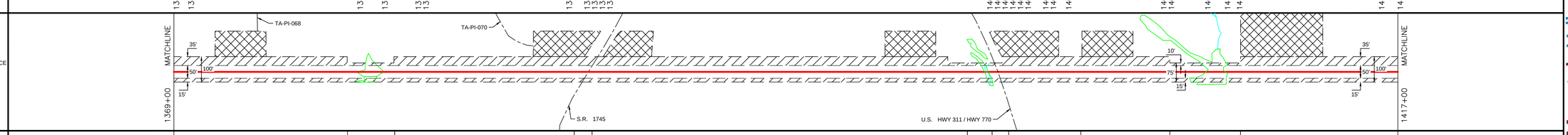
DRAWING NO.	DESCRIPTION

HORIZONTAL STATIONING

1369+00 MATCH LINE
1369+58 OVERHEAD POWER LINE
1376+21 BEGIN WETLAND (W-C18-96)
1377+18 END WETLAND (W-C18-96)
1378+19 COUNTY LINE, STATE LINE
1378+27 PROPERTY LINE
1384+41 FENCE, 4' BARBED WIRE
1385+11 EDGE OF ROAD
1385+23 CL S.R. 1745 (BUFFALO ROAD)(ASPHALT)
1385+23 PROPERTY LINE
1385+34 EDGE OF ROAD
1400+91 BEGIN WETLAND (W-B18-98)
1400+98 PROPERTY LINE
1400+98 CL STREAM (S-B18-99)
1401+11 END WETLAND (W-B18-98)
1401+29 EDGE OF ROAD
1401+44 CL U.S. HIGHWAY 311 / HWY 770 (ASPHALT)
1401+58 EDGE OF ROAD
1401+75 OVERHEAD POWER LINE
1401+86 FENCE, 6' CHAIN LINK
1407+72 FENCE, 5' HOG WIRE
1407+91 FENCE, 5' HOG WIRE
1409+45 BEGIN WETLAND (W-A18-22)
1410+23 END WETLAND (W-A18-22)
1410+70 FENCE, 6' CHAIN LINK
1416+27 FENCE, 7' CHAIN LINK
1417+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)



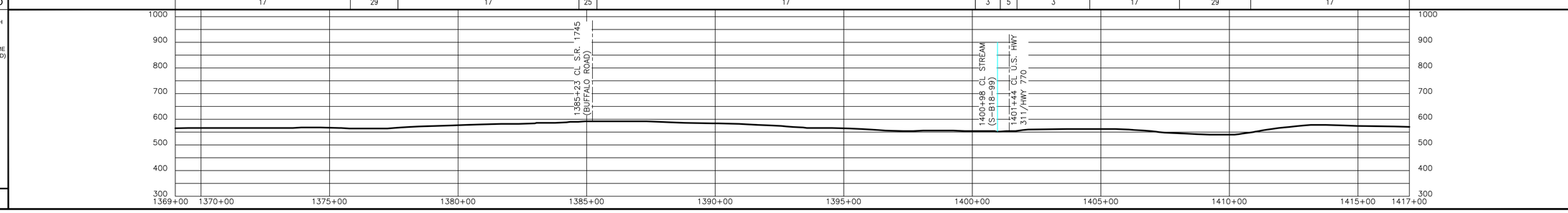
CONSTRUCTION METHOD

17 | 29 | 17 | 25 | 17 | 3 | 5 | 3 | 17 | 29 | 17

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 - HORIZONAL DIRECTIONAL DRILL (HDD)
13 - PARALLEL TO POWER LINES
17 - PARALLEL TO FORIEGN 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

TRC Results you can rely on

REVISIONS

REV.	BY	DATE	DESCRIPTION
P1	TRC	06/13/18	ISSUED FOR REVIEW
P2	TRC	08/20/18	FERC DRAFT
P3	TRC	10/22/18	ISSUED FOR CLIENT REVIEW
P4	TRC	11/02/18	ISSUED FOR FERC

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
1	1428 LF	24"O.D. X 0.375"W.T. PIPE
2	174 LF	24"O.D. X 0.412"W.T. X-70, FBE & POWERCRETE

APPROVED FOR CONSTRUCTION			
REV.	BY	DATE	

APPROVED FOR BIDDING			
REV.	BY	DATE	

APPROVED FOR FERC			
REV.	BY	DATE	

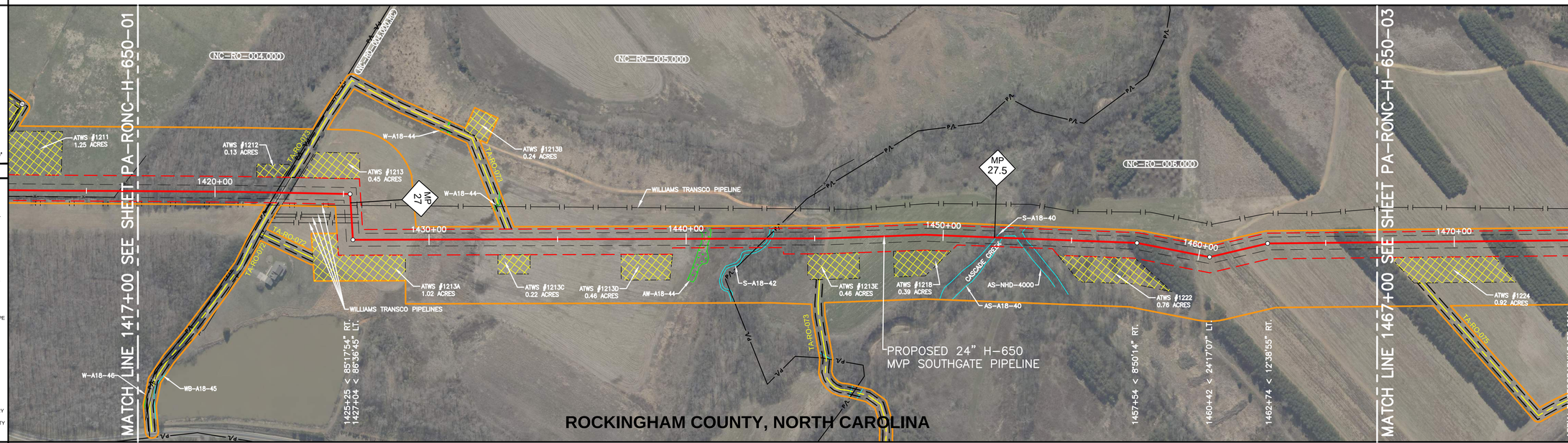
Mountain Valley PIPELINE LLC

PIPELINE ALIGNMENT

MVP SOUTHGATE PROJECT - H-650 LINE
PITTSYLVANIA CO., VA / ROCKINGHAM CO., NC
STA. 1369+00 TO STA. 1417+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-RONC-H-650-01
SHEET: 29 OF 77	REV. P4
DATE OF PLOT:11/5/2018 4:03:20 PM	

RIGHT-OF-WAY & OWNERSHIP DATA		1417+00	NC-RO-004.000 538 LF	1422+38	NC-RO-005.000 2073 LF					1443+11	NC-RO-006.000 2389 LF					1467+00	
DESIGN	PIPE / COATING	1417+00	1													1467+00	
	SLOPE DISTANCE																
	CLASS LOCATION / HCA		1														
ENVIRONMENTAL	CONSTRUCTION EXCLUSION																
	WETLAND / STREAM							AW-A18-44 31 LF		AS-A18-42 15 LF			AS-A18-40 25 LF	AS-NHD-4000 36 LF			
	.																
	.																



0' 100' 200' 400'

PLAN VIEW

LEGEND

- STUDY CORRIDOR
- PROPOSED PIPELINE
- NON-SURVEYED C/L
- EXISTING PIPELINE
- PERMANENT EASEMENT
- WORK SPACE LIMITS
- PERMANENT ACCESS RD
- TEMPORARY ACCESS RD
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- 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

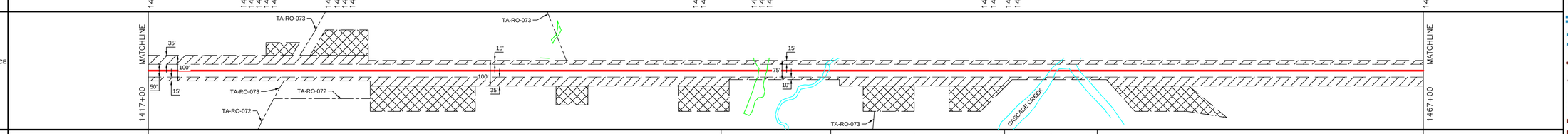
DRAWING NO.	DESCRIPTION

HORIZONTAL STATIONING

1417+00 MATCH LINE
1422+38 PROPERTY LINE
1422+53 EDGE OF ROAD
1422+59 CL ROAD (GRAVEL)
1422+65 EDGE OF ROAD
1422+90 OVERHEAD POWER LINE
1425+70 WILLIAMS TRANSCO PIPELINE
1426+05 WILLIAMS TRANSCO PIPELINE
1426+17 WILLIAMS TRANSCO PIPELINE
1428+38 WILLIAMS TRANSCO PIPELINE
1440+61 BEGIN WETLAND (AW-A18-44)
1440+92 END WETLAND (AW-A18-44)
1443+11 PROPERTY LINE
1443+16 BEGIN STREAM (AS-A18-42)
1443+31 END STREAM (AS-A18-42)
1452+06 BEGIN CASCADE CREEK (AS-A18-40)
1452+31 END CASCADE CREEK (AS-A18-40)
1452+86 BEGIN STREAM (AS-NHD-4000)
1453+22 END STREAM (AS-NHD-4000)
1467+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)

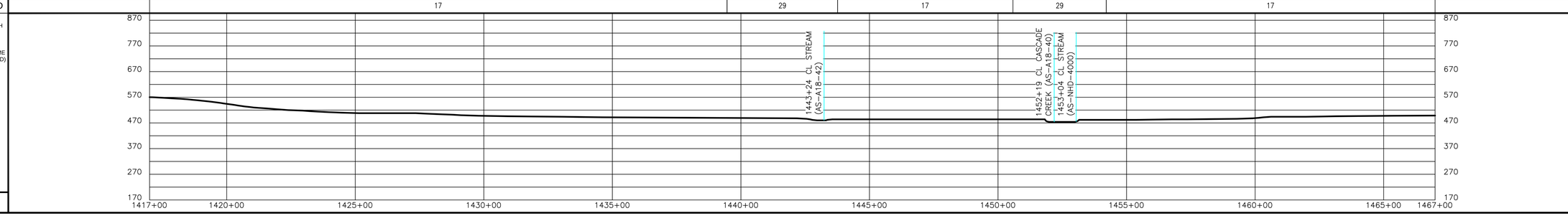


CONSTRUCTION METHOD

17 | 29 | 17 | 29 | 17

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 - HORIZONAL DIRECTIONAL DRILL (HDD)
13 - PARALLEL TO POWER LINES
17 - PARALLEL TO FORIEGN 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

ISSUED FOR FERC

REVISIONS

REV.	BY	DATE	DESCRIPTION
P1	TRC	06/13/18	ISSUED FOR REVIEW
P2	TRC	08/20/18	FERC DRAFT
P3	TRC	10/22/18	ISSUED FOR CLIENT REVIEW
P4	TRC	11/06/18	ISSUED FOR FERC

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
1	5000 LF	24"O.D. X 0.3125"W.T., X-70, TBE

APPROVED FOR CONSTRUCTION

REV.	BY	DATE

APPROVED FOR BIDDING

REV.	BY	DATE

APPROVED FOR FERC

REV.	BY	DATE

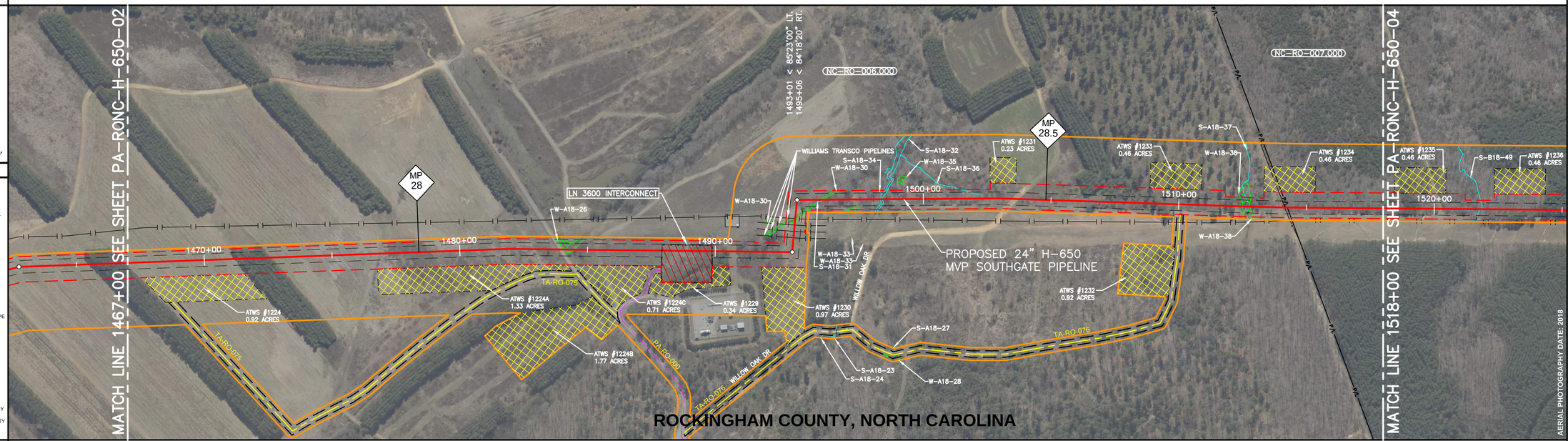
Mountain Valley PIPELINE LLC

PIPELINE ALIGNMENT

MVP SOUTHGATE PROJECT - H-650 LINE
ROCKINGHAM COUNTY, NORTH CAROLINA
STA. 1417+00 TO STA. 1467+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-RONC-H-650-02
SHEET: 30 OF 77 REV. P4
DATE OF PLOT:11/5/2018 4:03:41 PM

RIGHT-OF-WAY & OWNERSHIP DATA		1467+00 — NC-RO-006.000 — 4725 LF — 1514+25 — NC-RO-007.000 — 375 LF — 1518+00
DESIGN	PIPE / COATING	1467+00 — 1 — 1518+00
	SLOPE DISTANCE	
	CLASS LOCATION / HCA	1
ENVIRONMENTAL	CONSTRUCTION EXCLUSION	
	WETLAND / STREAM	W-A18-26 22 LF; AW-A18-26 21 LF; W-A18-30 27 LF; W-A18-30 5 LF; S-A18-32 6 LF; W-A18-38 28 LF
	.	
	.	



0' 100' 200' 400'

PLAN VIEW

LEGEND

- STUDY CORRIDOR
- PROPOSED PIPELINE
- NON-SURVEYED C/L
- EXISTING PIPELINE
- PERMANENT EASEMENT
- WORK SPACE LIMITS
- PERMANENT ACCESS RD
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- COUNTY LINE
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- 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

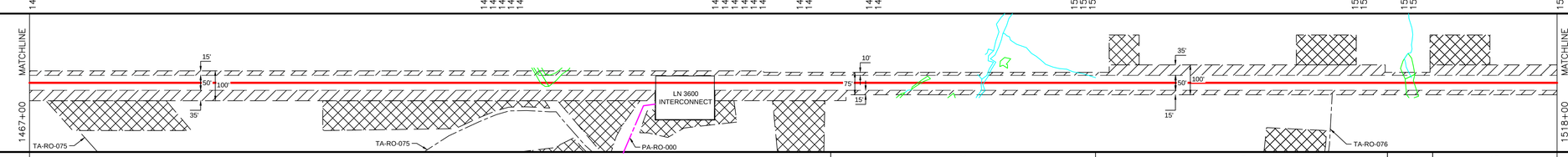
DRAWING NO.	DESCRIPTION
X-X-LN3600-1100-01	PROPOSED LN3600 ENTG MS

HORIZONTAL STATIONING

1467+00 MATCH LINE
1483+99 CL ROAD (GRAVEL)
1484+05 BEGIN WETLAND (W-A18-26)
1484+27 END WETLAND (W-A18-26)
1484+27 BEGIN WETLAND (AW-A18-26)
1484+48 END WETLAND (AW-A18-26)
1494+18 BEGIN WETLAND (W-A18-30)
1493+57 WILLIAMS TRANSCO PIPELINE
1493+38 WILLIAMS TRANSCO PIPELINE
1494+07 WILLIAMS TRANSCO PIPELINE
1494+22 WILLIAMS TRANSCO PIPELINE
1494+45 END WETLAND (W-A18-30)
1496+02 BEGIN WETLAND (W-A18-30)
1496+07 END WETLAND (W-A18-30)
1498+34 BEGIN STREAM (S-A18-32)
1498+40 END STREAM (S-A18-32)
1503+49 EDGE OF ROAD
1503+61 CL ROAD (DIRT)
1503+69 EDGE OF ROAD
1512+51 BEGIN WETLAND (W-A18-38)
1512+79 END WETLAND (W-A18-38)
1514+15 FENCE, 6' CHAIN LINK WITH BARB
1514+25 PROPERTY LINE
1518+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)

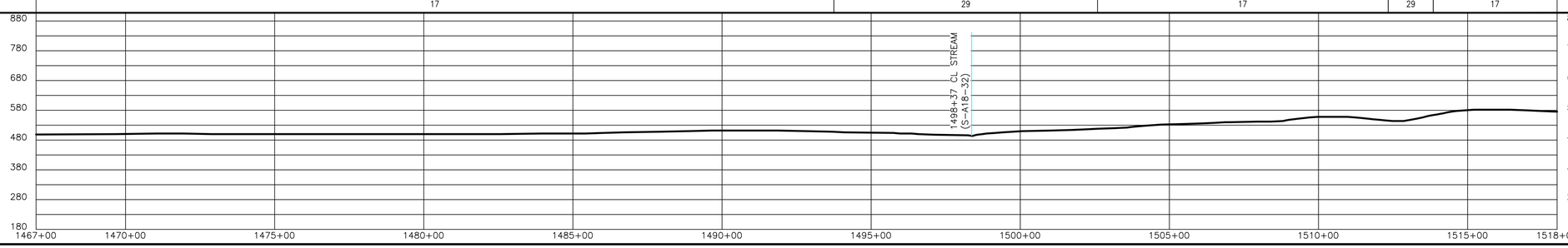


CONSTRUCTION METHOD

17 | 29 | 17 | 29 | 17

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 - HORIZONAL DIRECTIONAL DRILL (HDD)
13 - PARALLEL TO POWER LINES
17 - PARALLEL TO FORIEGN 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	06/13/18	ISSUED FOR REVIEW
P2	TRC	08/20/18	FERC DRAFT
P3	TRC	10/22/18	ISSUED FOR CLIENT REVIEW
P4	TRC	11/06/18	ISSUED FOR FERC

AERIAL PHOTOGRAPHY DATE: 2018

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
1	5100 LF	24"O.D. X 0.3750"W.T., X-70, TBE

APPROVED FOR CONSTRUCTION

REV.	BY	DATE
-	-	-

APPROVED FOR BIDDING

REV.	BY	DATE
-	-	-

APPROVED FOR FERC

REV.	BY	DATE
-	-	-

ISSUED FOR FERC

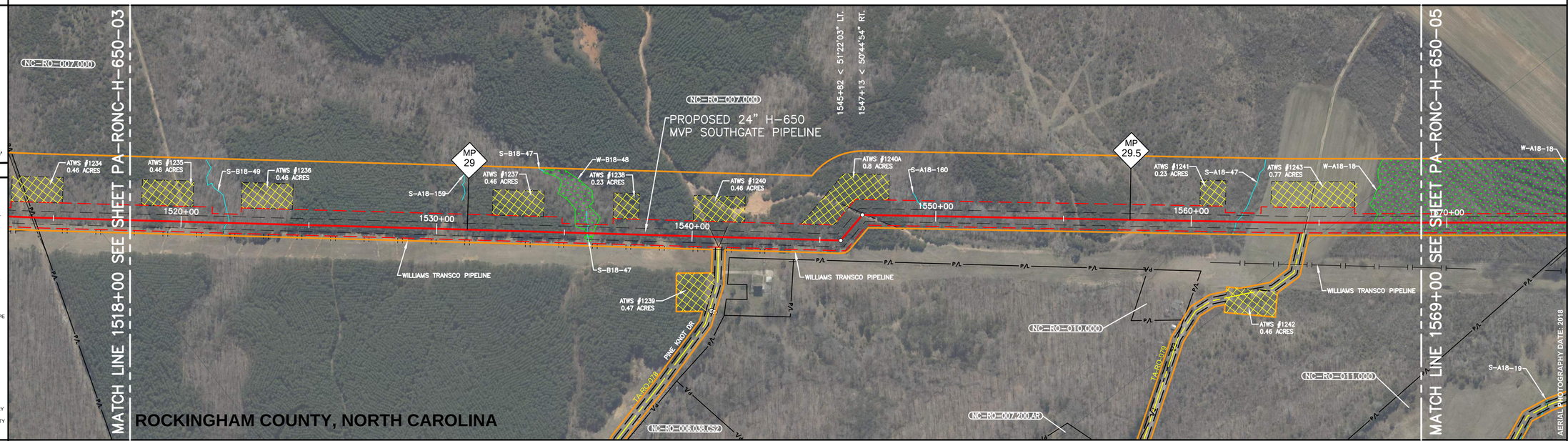
Mountain Valley PIPELINE LLC

PIPELINE ALIGNMENT

MVP SOUTHGATE PROJECT - H-650 LINE
ROCKINGHAM COUNTY, NORTH CAROLINA
STA. 1467+00 TO STA. 1518+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-RONC-H-650-03
SHEET: 31 OF 77	REV. P4
DATE OF PLOT:11/5/2018 4:03:58 PM	

RIGHT-OF-WAY & OWNERSHIP DATA		1518+00	NC-RO-007.000 5100 LF 1569+00
DESIGN	PIPE / COATING	1518+00	1 1569+00
	SLOPE DISTANCE		
	CLASS LOCATION / HCA		1
ENVIRONMENTAL	CONSTRUCTION EXCLUSION		
	WETLAND / STREAM		S-B18-49 < 1 LF; S-B18-47 < 1 LF; W-B18-48 23 LF; S-A18-47 < 1 LF; W-A18-18 187 LF
	.		
	.		



PLAN VIEW

0' 100' 200' 400'

LEGEND

- STUDY CORRIDOR
- PROPOSED PIPELINE
- NON-SURVEYED C/L
- 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
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- POWER/TELE POLE
- TOWER LEG
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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

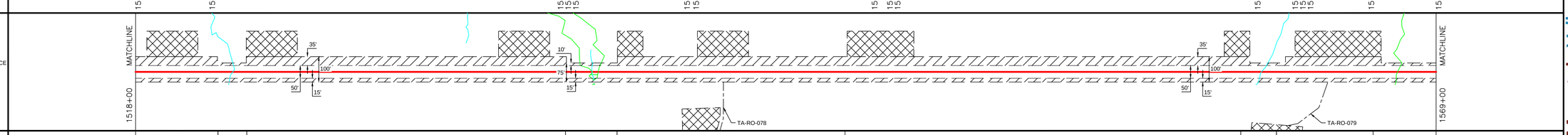
DRAWING NO.	DESCRIPTION

HORIZONTAL STATIONING

1518+00 MATCH LINE
1521+81 CL STREAM (S-B18-49)
1535+90 CL STREAM (S-B18-47)
1535+91 BEGIN WETLAND (W-B18-48)
1536+14 END WETLAND (W-B18-48)
1540+86 CL ROAD (DIRT)
1541+21 CL ROAD (DIRT)
1547+12 EDGE OF ROAD
1547+30 CL ROAD (DIRT)
1547+48 EDGE OF ROAD
1561+78 CL STREAM (S-A18-47)
1564+46 EDGE OF ROAD
1564+50 CL ACCESS RD (DIRT)
1564+54 EDGE OF ROAD
1567+13 BEGIN WETLAND (W-A18-18)
1569+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)



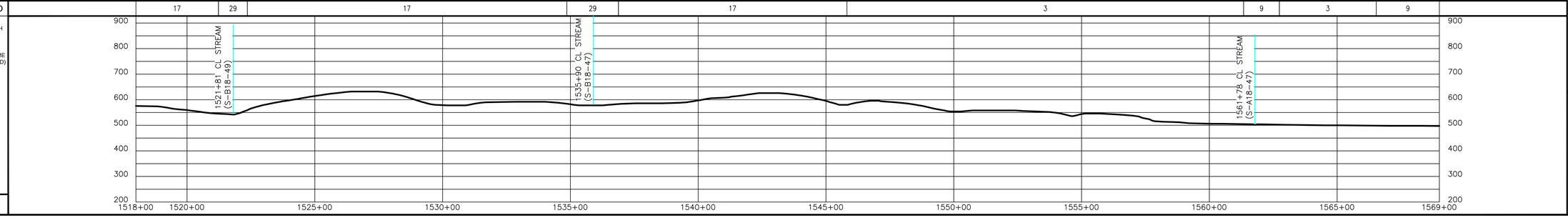
CONSTRUCTION METHOD

17 | 29 | 17 | 29 | 17 | 3 | 9 | 3 | 9

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 - HORIZONAL DIRECTIONAL DRILL (HDD)
13 - PARALLEL TO POWER LINES
17 - PARALLEL TO FORIEGN 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	06/13/18	ISSUED FOR REVIEW
P2	TRC	08/20/18	FERC DRAFT
P3	TRC	10/22/18	ISSUED FOR CLIENT REVIEW
P4	TRC	11/06/18	ISSUED FOR FERC

MATERIAL SUMMARY

AERIAL PHOTOGRAPHY DATE: 2018

MK. NO.	QTY.	DESCRIPTION
1	5100 LF	24"O.D. X 0.3750"W.T., X-70, TBE

APPROVED FOR CONSTRUCTION — REV. | BY | DATE

APPROVED FOR BIDDING — REV. | BY | DATE

APPROVED FOR FERC — REV. | BY | DATE

ISSUED FOR FERC

Mountain Valley PIPELINE LLC

PIPELINE ALIGNMENT
MVP SOUTHGATE PROJECT - H-650 LINE
ROCKINGHAM COUNTY, NORTH CAROLINA
STA. 1518+00 TO STA. 1569+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-RONC-H-650-04
SHEET: 32 OF 77	REV. P4
DATE OF PLOT:11/5/2018 4:04:16 PM	

RIGHT-OF-WAY & OWNERSHIP DATA

Segment	Length
1569+00 – 1575+81	681 LF
1575+81 – 1587+03	1122 LF
1587+03 – 1589+18	215 LF
1589+18 – 1592+45	327 LF
1592+45 – 1599+53	708 LF
1599+53 – 1603+02	349 LF
1603+02 – 1606+56	354 LF
1606+56 – 1608+96	240 LF
1608+96 – 1609+67	71 LF
1609+67 – 1617+72	805 LF
1617+72 – 1618+81	109 LF
1618+81 – 1619+32	51 LF
1619+32 – 1621+00	168 LF

NC-RO-007.000 · NC-RO-011.000 · NC-RO-012.000.WBC · NC-RO-013.000 · NC-RO-014.000 · NC-RO-015.000 · NC-RO-016.000 · NC-RO-015.000 · NC-RO-015.000.RC · NC-RO-019.000 · NC-RO-019.000.RC · NC-RO-021.000 · NC-RO-022.000

DESIGN

PIPE / COATING	1569+00 – 1578+54: 1; 1578+54 – 1603+77: 6; 1603+77 – 1604+80: 2; 1604+80 – 1606+56: 4; 1606+56 – 1608+96: 8; 1608+96 – 1609+78: 9; 1609+78 – 1617+61: 8; 1617+61 – 1618+90: 9; 1618+90 – 1621+00: 8
SLOPE DISTANCE	
CLASS LOCATION / HCA	1569+00 – 1603+77: 1; 1603+77 – 1621+00: 2

ENVIRONMENTAL

CONSTRUCTION EXCLUSION	
WETLAND / STREAM	W-A18-18 797 LF; S-A18-17 248 LF; W-B18-39 24 LF; W-B18-39 41 LF; W-B18-39 30 LF; W-B18-39 32 LF; W-B18-36 36 LF; S-B18-38 < 1 LF; W-B18-36 351 LF; W-B18-36 27 LF; W-B18-34 179 LF; W-A18-54 11 LF
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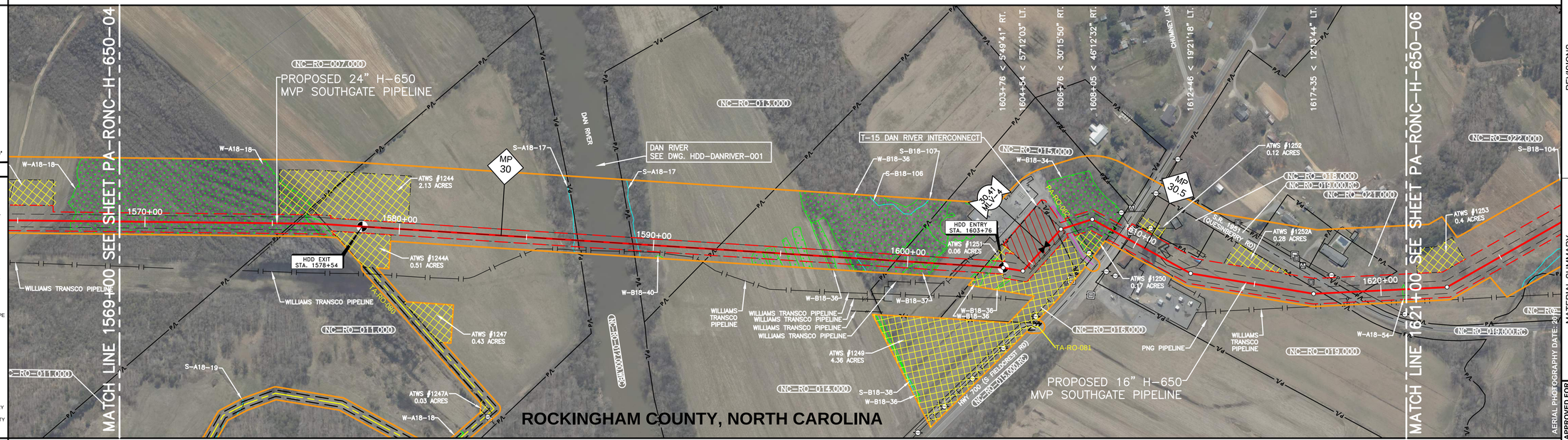


PLAN VIEW

0' 100' 200' 400'

LEGEND

- STUDY CORRIDOR
- PROPOSED PIPELINE
- NON-SURVEYED C/L
- 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

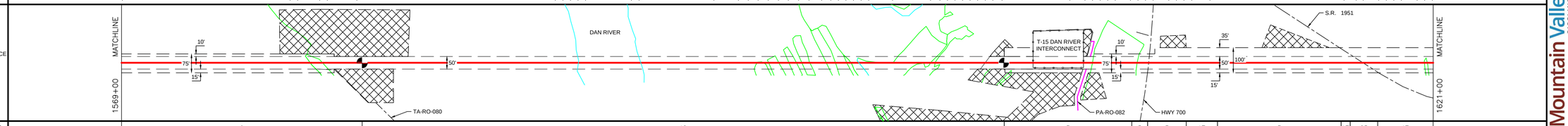
REFERENCE DRAWINGS

DRAWING NO.	DESCRIPTION
HDD-DANRIVER-001	DAN RIVER HDD
X-X-T15-1100-01	PROPOSED T-15 DAN RIVER MS

HORIZONTAL STATIONING

1569+00 MATCH LINE
1575+81 PROPERTY LINE; 1575+83 FENCE, 4' BARBED WIRE
1576+97 END WETLAND (W-A18-18); 1577+12 FENCE, 4' BARBED WIRE
1578+54 HDD EXIT POINT
1586+16 EDGE OF ROAD; 1586+22 CL ROAD (DIRT); 1586+26 EDGE OF ROAD; 1588+69 BEGIN DAN RIVER (S-A18-17); 1587+03 PROPERTY LINE
1589+18 PROPERTY LINE; 1589+37 END DAN RIVER (S-A18-17)
1592+45 PROPERTY LINE
1593+98 BEGIN WETLAND (W-B18-39); 1594+22 END WETLAND (W-B18-39); 1594+43 BEGIN WETLAND (W-B18-39); 1594+84 END WETLAND (W-B18-39); 1595+24 BEGIN WETLAND (W-B18-39); 1595+54 END WETLAND (W-B18-39); 1595+75 BEGIN WETLAND (W-B18-39); 1596+07 END WETLAND (W-B18-39); 1596+72 BEGIN WETLAND (W-B18-36); 1597+08 END WETLAND (W-B18-36); 1597+21 EDGE OF ROAD; 1597+31 CL ROAD (GRASS); 1597+40 EDGE OF ROAD; 1597+45 BEGIN WETLAND (W-B18-36); 1598+01 CL STREAM (S-B18-38)
1599+53 PROPERTY LINE
1601+04 END WETLAND (W-B18-36); 1602+05 CL DITCH; 1602+21 WILLIAMS PIPELINE; 1602+64 EDGE OF ROAD; 1602+77 CL ACCESS RD (GRAVEL); 1603+02 PROPERTY LINE; 1603+07 BEGIN WETLAND (W-B18-36); 1603+34 END WETLAND (W-B18-36); 1603+76 HDD ENTRY POINT
1606+56 PROPERTY LINE
1606+88 EDGE OF ROAD; 1606+99 CL ACCESS RD (GRAVEL); 1607+05 EDGE OF ROAD; 1607+16 BEGIN WETLAND (W-B18-34); 1607+27 CL DITCH
1608+96 PROPERTY LINE; 1609+01 END WETLAND (W-B18-34); 1609+14 EDGE OF ROAD; 1609+26 CL HWY 700 (S. FIELDCREST RD)(ASPHALT); 1609+39 OVERHEAD POWER LINE; 1609+62 PROPERTY LINE; 1609+67 PROPERTY LINE; 1611+07 FENCE, 3' ELECTRIC; 1612+11 FENCE, 3' ELECTRIC
1617+72 PROPERTY LINE; 1618+20 EDGE OF ROAD; 1618+40 CL S.R. 1951 (QUESINBERRY RD)(ASPHALT); 1618+59 EDGE OF ROAD; 1618+81 PROPERTY LINE; 1619+32 OVERHEAD POWER LINE; 1619+32 PROPERTY LINE
1620+84 BEGIN WETLAND (W-A18-54); 1621+01 END WETLAND (W-A18-54); 1621+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)

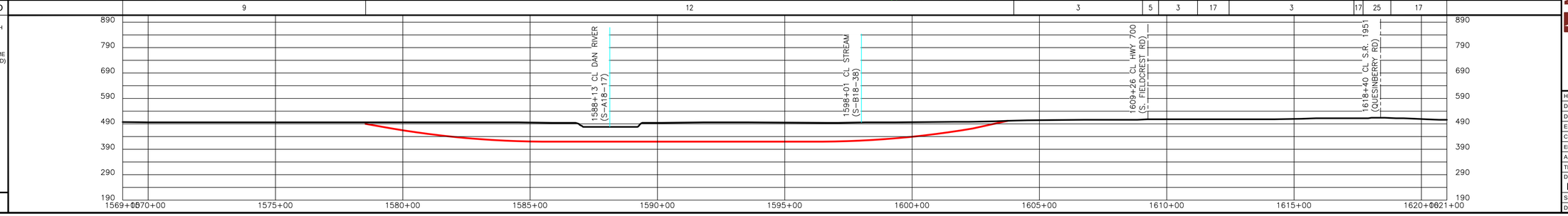
CONSTRUCTION METHOD

9 · 12 · 3 · 5 · 3 · 17 · 3 · 17 · 25 · 17

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 - HORIZONAL DIRECTIONAL DRILL (HDD)
- 13 - PARALLEL TO POWER LINES
- 17 - PARALLEL TO FORIEGN 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

TRC — Results you can rely on

REVISIONS

REV.	BY	DATE	DESCRIPTION
P1	TRC	06/13/18	ISSUED FOR REVIEW
P2	TRC	08/20/18	FERC DRAFT
P3	TRC	10/22/18	ISSUED FOR CLIENT REVIEW
P4	TRC	11/06/18	ISSUED FOR FERC

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
1	1,594 LF	24.0 O.D. X 0.375 W.T. X 70, FBE
2	103 LF	24.0 O.D. X 0.412 W.T. X 70, FBE
4	176 LF	24.0 O.D. X 0.500 W.T. X 70, FBE
5	1,436 LF	24.0 O.D. X 0.500 W.T. X 70, FBE & POWERCRETE
8	1232 LF	16.0 O.D. X 0.375 W.T. X 65, FBE
9	212 LF	16.0 O.D. X 0.375 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
ROCKINGHAM COUNTY, NORTH CAROLINA
STA. 1569+00 TO STA. 1621+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-RONC-H-650-05
SHEET: 33 OF 77 REV. P4
DATE OF PLOT: 11/5/2018 4:04:35 PM

RIGHT-OF-WAY & OWNERSHIP DATA																							
	1621+00	NC-RO-022.000		1633+08	NC-RO-025.000					1652+73	NC-RO-027.000	1657+17	NC-RO-029.000	1661+73	NC-RO-030.000		1669+77	NC-RO-030.000.RC	1670+49	NC-RO-033.000		1674+00	
		1208 LF			1965 LF						444 LF		456 LF		814 LF			62 LF		351 LF			

DESIGN																							
PIPE / COATING	1621+00	8															1669+77	9	1670+59	8		1674+00	
SLOPE DISTANCE																							
CLASS LOCATION / HCA		2					1								2								

ENVIRONMENTAL																							
CONSTRUCTION EXCLUSION																							
WETLAND / STREAM				AS-B18-104 < 1 LF			AS-B18-105 < 1 LF	S-B18-102 < 1 LF			S-B18-95 29 LF												
.																							
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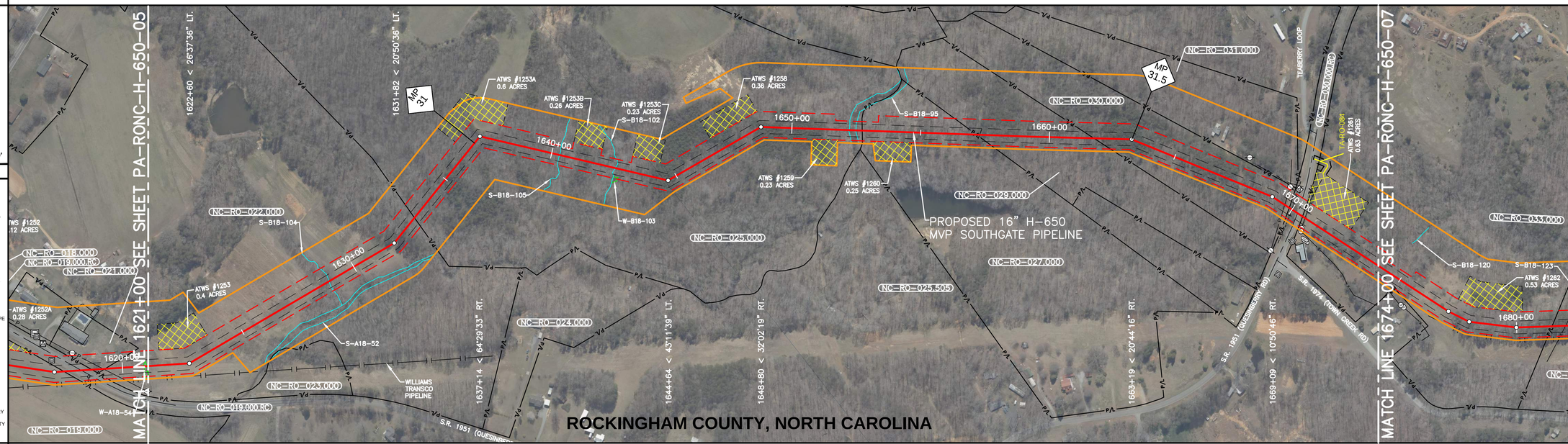


AERIAL PHOTOGRAPHY DATE: 2018

PLAN VIEW

0' 100' 200' 400'

LEGEND

- STUDY CORRIDOR
- PROPOSED PIPELINE
- NON-SURVEYED C/L
- 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

HORIZONTAL STATIONING

1621+00 MATCH LINE
1628+88 CL STREAM (AS-B18-104)
1633+08 PROPERTY LINE
1640+31 CL STREAM (AS-B18-105)
1642+53 CL STREAM (S-B18-102)
1652+20 BEGIN STREAM (S-B18-95)
1652+49 END STREAM (S-B18-95)
1652+73 PROPERTY LINE
1657+17 PROPERTY LINE
1657+29 FENCE, BARBED WIRE
1661+73 PROPERTY LINE
1669+66 OVERHEAD POWER LINE
1669+77 PROPERTY LINE
1670+00 BURIED POWER CABLE
1670+15 EDGE OF ROAD
1670+26 CL S.R. 1951 (QUESINBERRY RD)(ASPHALT)
1670+37 EDGE OF ROAD
1670+39 PROPERTY LINE
1670+60 FENCE, BARBED WIRE
1674+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)

MATCHLINE 1621+00 — 35' 50' 100' 15' — 10' 75' 15' — 35' 50' 100' 15' — TA-RO-084 — S.R. 1951 — MATCHLINE 1674+00

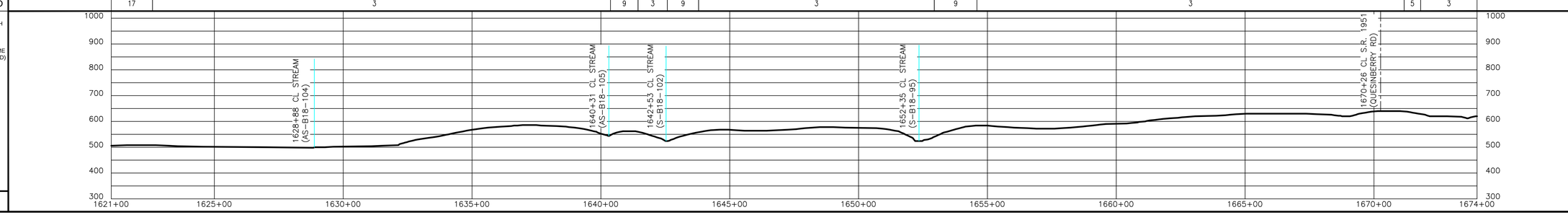
CONSTRUCTION METHOD

17 | 3 | 9 | 3 | 9 | 3 | 9 | 3 | 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 - HORIZONAL DIRECTIONAL DRILL (HDD)
13 - PARALLEL TO POWER LINES
17 - PARALLEL TO FORIEGN 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

ISSUED FOR FERC

REVISIONS

REV.	BY	DATE	DESCRIPTION
P1	TRC	06/13/18	ISSUED FOR REVIEW
P2	TRC	08/20/18	FERC DRAFT
P3	TRC	10/22/18	ISSUED FOR CLIENT REVIEW
P4	TRC	11/06/18	ISSUED FOR FERC

MATERIAL SUMMARY

MK NO.	QTY.	DESCRIPTION
8	8218 LF	16"O.D. X 0.375"W.T. X-65, FBE
9	82 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	

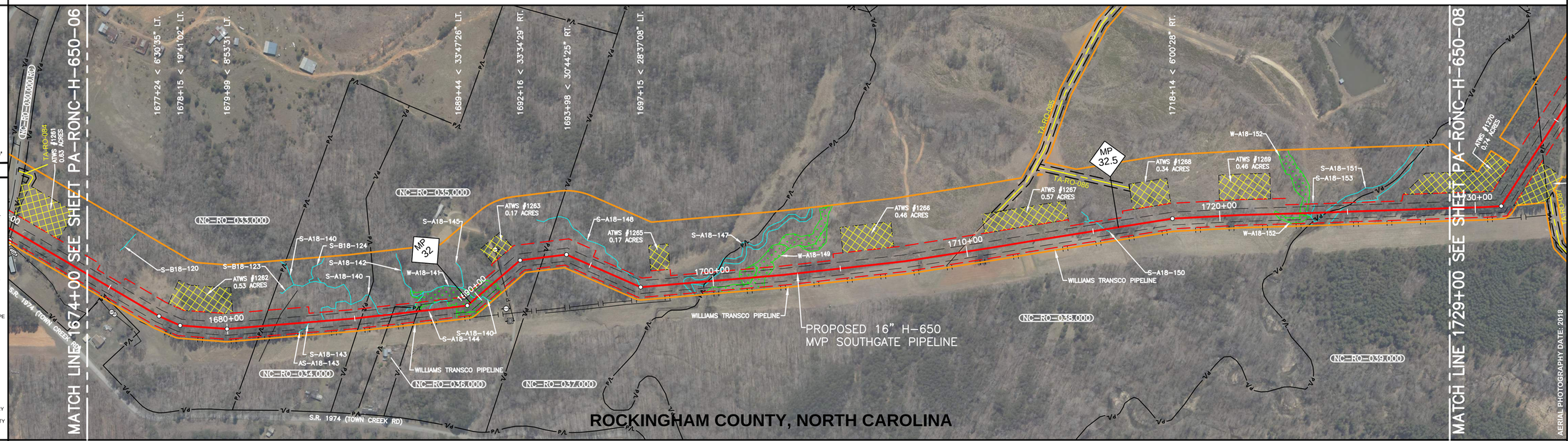
Mountain Valley PIPELINE LLC

PIPELINE ALIGNMENT

MVP SOUTHGATE PROJECT - H-650 LINE
ROCKINGHAM COUNTY, NORTH CAROLINA
STA. 1621+00 TO STA. 1674+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-RONC-H-650-06
SHEET: 34 OF 77	REV. P4
DATE OF PLOT:11/5/2018 4:04:46 PM	

RIGHT-OF-WAY & OWNERSHIP DATA																													
	1674+00	NC-RO-033.000		1681+38	NC-RO-034.000		1685+27	NC-RO-035.000		1686+47	NC-RO-036.000		1687+47	NC-RO-035.000		1693+08	NC-RO-037.000		1699+77	NC-RO-038.000		1724+21	NC-RO-039.000		1729+00
		738 LF			389 LF			120 LF			100 LF			561 LF			669 LF			2444 LF			479 LF		
DESIGN — PIPE / COATING	1674+00	8																							1729+00
DESIGN — SLOPE DISTANCE																									
DESIGN — CLASS LOCATION / HCA		2												1											
ENVIRONMENTAL — CONSTRUCTION EXCLUSION																									
ENVIRONMENTAL — WETLAND / STREAM					S-A18-143 49 LF			S-A18-140 23 LF		W-A18-141 6 LF	S-A18-144 < 1 LF		W-A18-141 177 LF	S-A18-140 < 1 LF		S-A18-147 103 LF	W-A18-149 104 LF			S-A18-150 < 1 LF		W-A18-152 21 LF	W-A18-152 30 LF	S-A18-153 18 LF	S-A18-151 55 LF
ENVIRONMENTAL — .																									
ENVIRONMENTAL — .																									



AERIAL PHOTOGRAPHY DATE: 2018

0' 100' 200' 400'

PLAN VIEW

LEGEND

- STUDY CORRIDOR
- PROPOSED PIPELINE
- NON-SURVEYED C/L
- 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

HORIZONTAL STATIONING

1674+00 MATCH LINE
1681+38 PROPERTY LINE
1681+90 FENCE, 4' BARBED WIRE
1683+30 BEGIN STREAM (S-A18-143)
1683+79 END STREAM (S-A18-143)
1685+27 PROPERTY LINE
1686+47 PROPERTY LINE
1686+73 BEGIN STREAM (S-A18-140)
1686+96 END STREAM (S-A18-140)
1687+47 PROPERTY LINE
1687+50 FENCE, 4' CHAIN LINK
1687+52 BEGIN WETLAND (W-A18-141)
1687+54 END WETLAND (W-A18-141)
1687+94 CL STREAM (S-A18-144)
1689+03 BEGIN WETLAND (W-A18-141)
1689+88 CL STREAM (S-A18-140)
1690+80 END WETLAND (W-A18-141)
1691+20 EDGE OF ROAD
1691+23 OVERHEAD POWER LINE
1691+25 CL PRIVATE RD (GRAVEL)
1691+30 EDGE OF ROAD
1693+08 PROPERTY LINE
1698+84 BEGIN MACHINE CREEK (S-A18-147)
1699+77 PROPERTY LINE
1699+87 END MACHINE CREEK (S-A18-147)
1701+07 BEGIN WETLAND (W-A18-149)
1702+11 END WETLAND (W-A18-149)
1709+55 EDGE OF ROAD
1709+64 CL TALL TIMBER RD (GRAVEL)
1709+72 EDGE OF ROAD
1712+41 EDGE OF ROAD
1712+48 CL ACCESS RD (GRASS)
1712+55 EDGE OF ROAD
1715+47 CL STREAM (S-A18-150)
1717+45 EDGE OF ROAD
1717+51 CL ACCESS RD (GRASS)
1717+58 EDGE OF ROAD
1722+16 BEGIN WETLAND (W-A18-152)
1722+37 END WETLAND (W-A18-152)
1723+12 BEGIN WETLAND (W-A18-152)
1723+18 END WETLAND (W-A18-152)
1723+42 BEGIN STREAM (S-A18-153)
1723+60 END STREAM (S-A18-153)
1724+12 BEGIN STREAM (S-A18-151)
1724+21 PROPERTY LINE
1724+67 END STREAM (S-A18-151)
1729+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)

MATCHLINE 1674+00 — MATCHLINE 1729+00

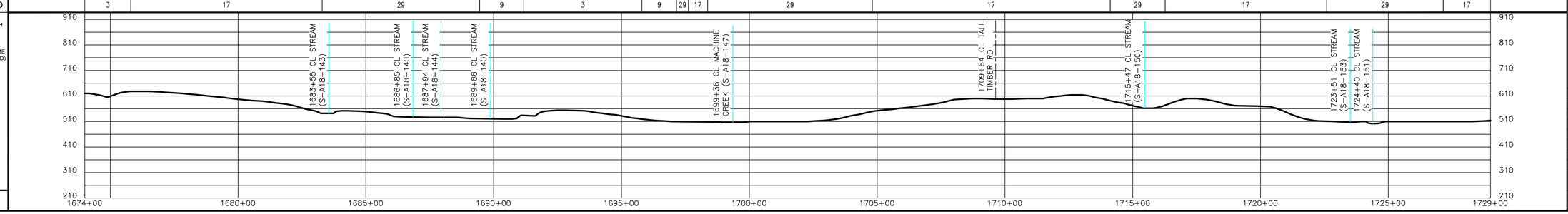
10' 75' 15' 35' 50' 100' 15' TA-RO-085 TA-RO-086 35' 50' 100' 15'

CONSTRUCTION METHOD

3 | 17 | 29 | 9 | 3 | 9 | 29 | 17 | 29 | 17 | 29 | 17 | 29 | 17

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 - HORIZONAL DIRECTIONAL DRILL (HDD)
13 - PARALLEL TO POWER LINES
17 - PARALLEL TO FORIEGN 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

TRC Results you can rely on

REVISIONS

REV.	BY	DATE	DESCRIPTION
P1	TRC	06/13/18	ISSUED FOR REVIEW
P2	TRC	08/20/18	FERC DRAFT
P3	TRC	10/22/18	ISSUED FOR CLIENT REVIEW
P4	TRC	11/06/18	ISSUED FOR FERC

MATERIAL SUMMARY

MK NO.	QTY.	DESCRIPTION
B	5500 LF	16"O.D. X 0.375"W.T., X-65, TBE

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
ROCKINGHAM COUNTY, NORTH CAROLINA
STA. 1674+00 TO STA. 1729+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-RONC-H-650-07
SHEET: 35 OF 77 REV. P4
DATE OF PLOT:11/5/2018 4:05:07 PM

RIGHT-OF-WAY & OWNERSHIP DATA

Tract	Start	End	Length
NC-RO-039.000	1729+00	1733+94	494 LF
NC-RO-040.000	1733+94	1742+21	827 LF
NC-RO-041.000	1742+21	1752+02	981 LF
NC-RO-041.000.RC	1752+02	1752+63	61 LF
NC-RO-042.000	1752+63	1767+23	1460 LF
NC-RO-044.000	1767+23	1774+28	705 LF
NC-RO-042.000	1774+28	1779+00	472 LF

DESIGN

PIPE / COATING	1729+00 – 8 – 1751+90 – 9 – 1752+73 – 8 – 1779+00
SLOPE DISTANCE	
CLASS LOCATION / HCA	1

ENVIRONMENTAL

CONSTRUCTION EXCLUSION	
WETLAND / STREAM	S-A18-151 48 LF; S-A18-154 < 1 LF; W-A18-155 68 LF; S-A18-220 < 1 LF; S-A18-221 < 1 LF; W-A18-222 43 LF; S-C18-52 < 1 LF; S-C18-51 < 1 LF
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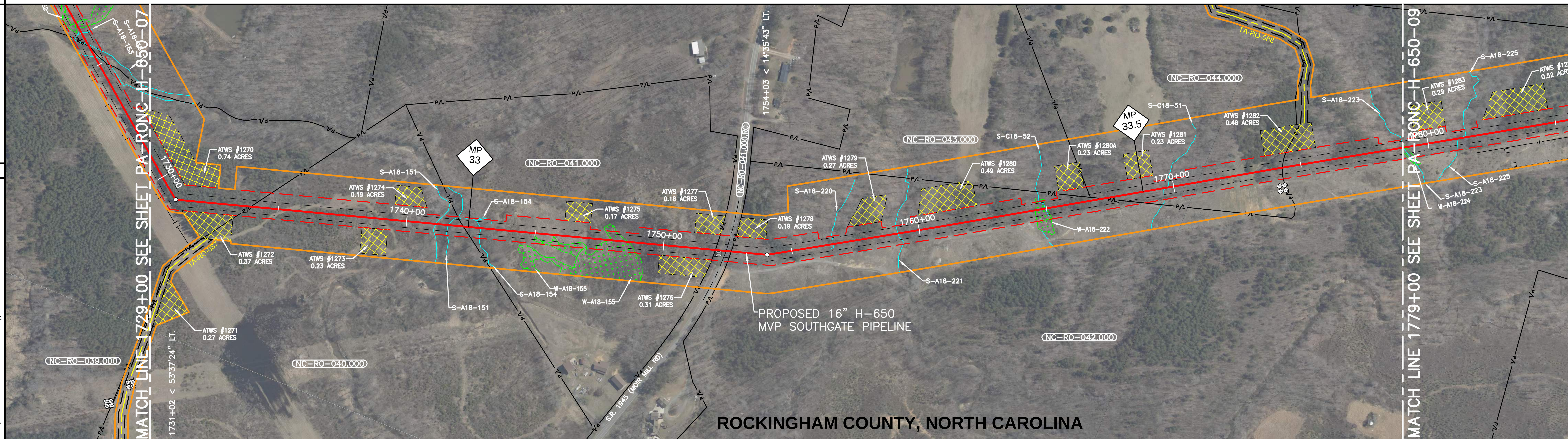
PLAN VIEW

0' 100' 200' 400'



AERIAL PHOTOGRAPHY DATE: 2018

LEGEND

- STUDY CORRIDOR
- PROPOSED PIPELINE
- NON-SURVEYED C/L
- 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

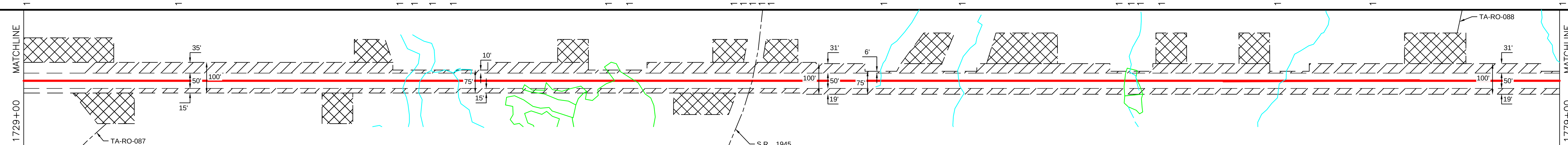
ISSUED FOR FERC

HORIZONTAL STATIONING

- 1729+00 MATCH LINE
- 1733+94 PROPERTY LINE
- 1741+14 BEGIN STREAM (S-A18-151)
- 1741+62 END STREAM (S-A18-151)
- 1742+21 PROPERTY LINE
- 1742+89 CL STREAM (S-A18-154)
- 1747+94 BEGIN WETLAND (W-A18-155)
- 1748+62 END WETLAND (W-A18-155)
- 1752+02 PROPERTY LINE
- 1752+33 EDGE OF ROAD
- 1752+44 CL S.R. 1945 (MOIR MILL RD)(ASPHALT)
- 1752+54 EDGE OF ROAD
- 1752+63 PROPERTY LINE
- 1756+62 CL STREAM (S-A18-220)
- 1759+17 CL STREAM (S-A18-221)
- 1764+56 BEGIN WETLAND (W-A18-222)
- 1764+96 CL STREAM (S-C18-52)
- 1764+99 END WETLAND (W-A18-222)
- 1767+23 PROPERTY LINE
- 1769+72 CL STREAM (S-C18-51)
- 1774+28 PROPERTY LINE
- 1779+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)



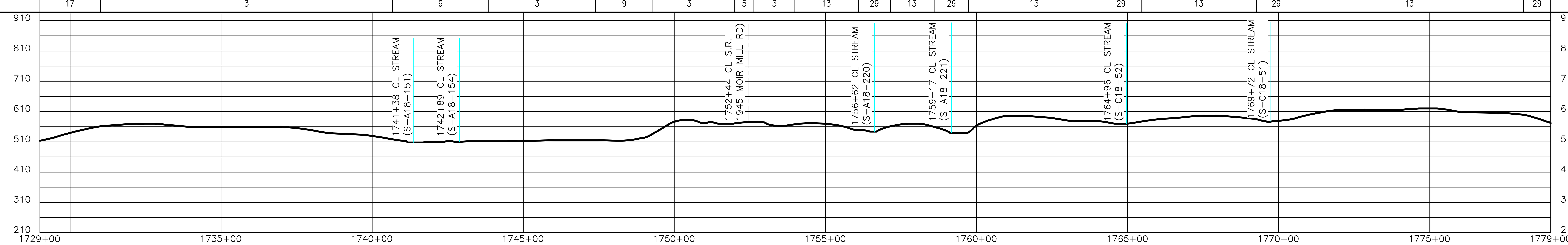
CONSTRUCTION METHOD

17	3	9	3	9	3	5	3	13	29	13	29	13	29	13	29	13	29	

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 - HORIZONAL DIRECTIONAL DRILL (HDD)
- 13 - PARALLEL TO POWER LINES
- 17 - PARALLEL TO FORIEGN 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	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	11/02/18	ISSUED FOR FERC

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
8	4917 LF	16"O.D. X 0.375"W.T., X-65, FBE
9	83 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
	.	.	.

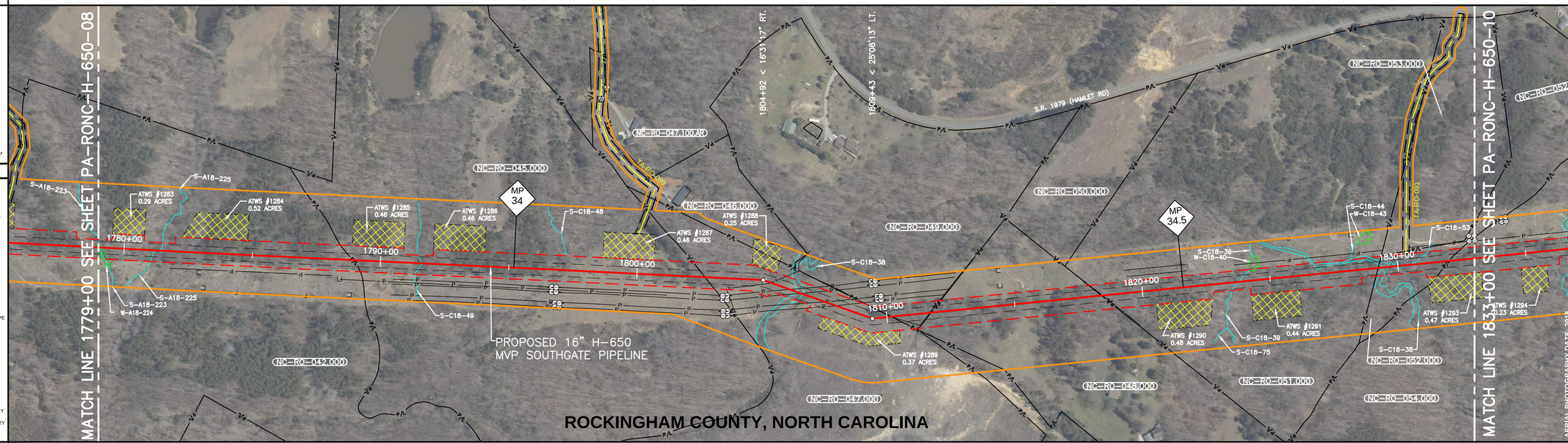
TRC Results you can rely on

Mountain Valley PIPELINE LLC

PIPELINE ALIGNMENT
MVP SOUTHGATE PROJECT - H-650 LINE ROCKINGHAM COUNTY, NORTH CAROLINA STA. 1729+00 TO STA. 1779+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-RONC-H-650-08	
SHEET: 36 OF 77	REV. P4
DATE OF PLOT: 11/5/2018 4:05:17 PM	

RIGHT-OF-WAY & OWNERSHIP DATA																							
	1779+00	NC-RO-042.000		1788+93	NC-RO-045.000		1802+65	NC-RO-047.000		1810+17	NC-RO-049.000	1811+73	NC-RO-048.000		1818+40	NC-RO-051.000		1829+23	NC-RO-052.000	1831+98	NC-RO-054.000		1833+00
		993 LF			1372 LF			752 LF			156 LF		667 LF			1083 LF			275 LF		102 LF		
DESIGN																							
PIPE / COATING	1779+00	8																					1833+00
SLOPE DISTANCE																							
CLASS LOCATION / HCA		1																					
ENVIRONMENTAL																							
CONSTRUCTION EXCLUSION																							
WETLAND / STREAM		W-A18-224 10 LF	S-A18-223 < 1 LF	S-A18-225 < 1 LF		S-C18-49 < 1 LF				S-C18-38 25 LF						S-C18-39 < 1 LF			S-C18-38 17 LF	S-C18-53 29 LF	S-C18-53 4 LF	
.																							
.																							



PLAN VIEW

0' 100' 200' 400'

LEGEND

- STUDY CORRIDOR
- PROPOSED PIPELINE
- NON-SURVEYED C/L
- 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
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- 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

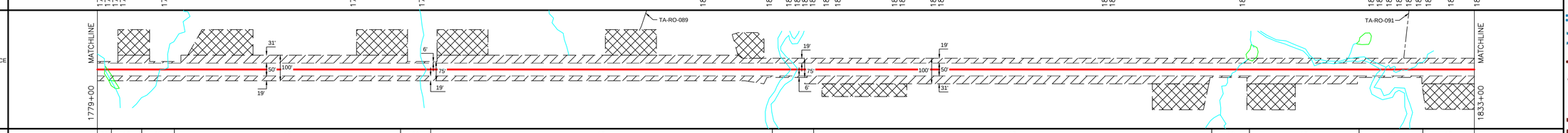
DRAWING NO.	DESCRIPTION

HORIZONTAL STATIONING

1779+00 MATCH LINE
1779+02 BEGIN WETLAND (W-A18-224)
1779+03 CL STREAM (S-A18-223)
1779+12 END WETLAND (W-A18-224)
1781+17 CL STREAM (S-A18-225)
1788+93 PROPERTY LINE
1791+62 CL STREAM (S-C18-49)
1802+65 PROPERTY LINE
1805+25 FENCE, 2' WIRE
1806+02 OVERHEAD TRANSMISSION LINE
1806+35 BEGIN STREAM (S-C18-38)
1806+48 OVERHEAD TRANSMISSION LINE
1806+60 END STREAM (S-C18-38)
1807+48 OVERHEAD TRANSMISSION LINE
1807+93 OVERHEAD TRANSMISSION LINE
1810+16 FENCE, 4' BARBED WIRE
1810+17 PROPERTY LINE
1811+68 FENCE, 4' BARBED WIRE
1811+73 PROPERTY LINE
1818+40 PROPERTY LINE
1818+43 FENCE, 4' BARBED WIRE
1823+80 CL STREAM (S-C18-39)
1829+23 PROPERTY LINE
1829+45 BEGIN STREAM (S-C18-38)
1829+62 END STREAM (S-C18-38)
1829+98 BEGIN STREAM (S-C18-53)
1830+27 END STREAM (S-C18-53)
1830+42 BEGIN STREAM (S-C18-53)
1830+46 END STREAM (S-C18-53)
1831+98 PROPERTY LINE
1833+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)



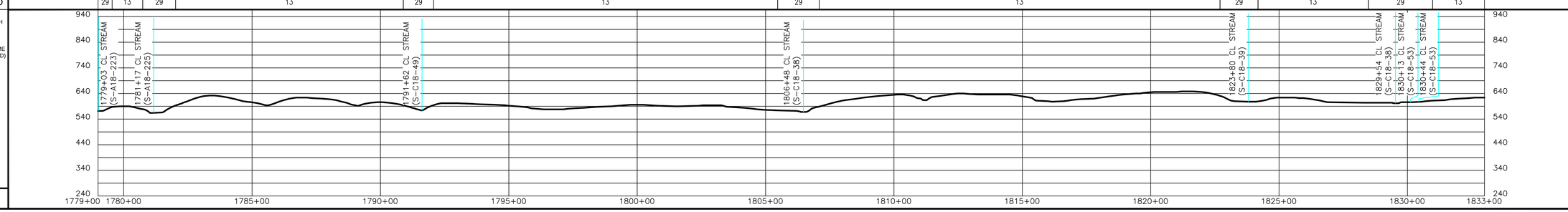
CONSTRUCTION METHOD

29 | 13 | 29 | 13 | 29 | 13 | 29 | 13 | 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 - HORIZONAL DIRECTIONAL DRILL (HDD)
13 - PARALLEL TO POWER LINES
17 - PARALLEL TO FORIEGN 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

TRC Results you can rely on

REVISIONS

REV.	BY	DATE	DESCRIPTION
P1	TRC	06/13/18	ISSUED FOR REVIEW
P2	TRC	08/20/18	FERC DRAFT
P3	TRC	10/22/18	ISSUED FOR CLIENT REVIEW
P4	TRC	11/06/18	ISSUED FOR FERC

AERIAL PHOTOGRAPHY DATE: 2018

MATERIAL SUMMARY

MK NO.	QTY.	DESCRIPTION
9	8400 LF	16"O.D. X 0.375"W.T., X-65, TBE

APPROVED FOR CONSTRUCTION			
REV.	BY	DATE	

APPROVED FOR BIDDING			
REV.	BY	DATE	

APPROVED FOR FERC			
REV.	BY	DATE	

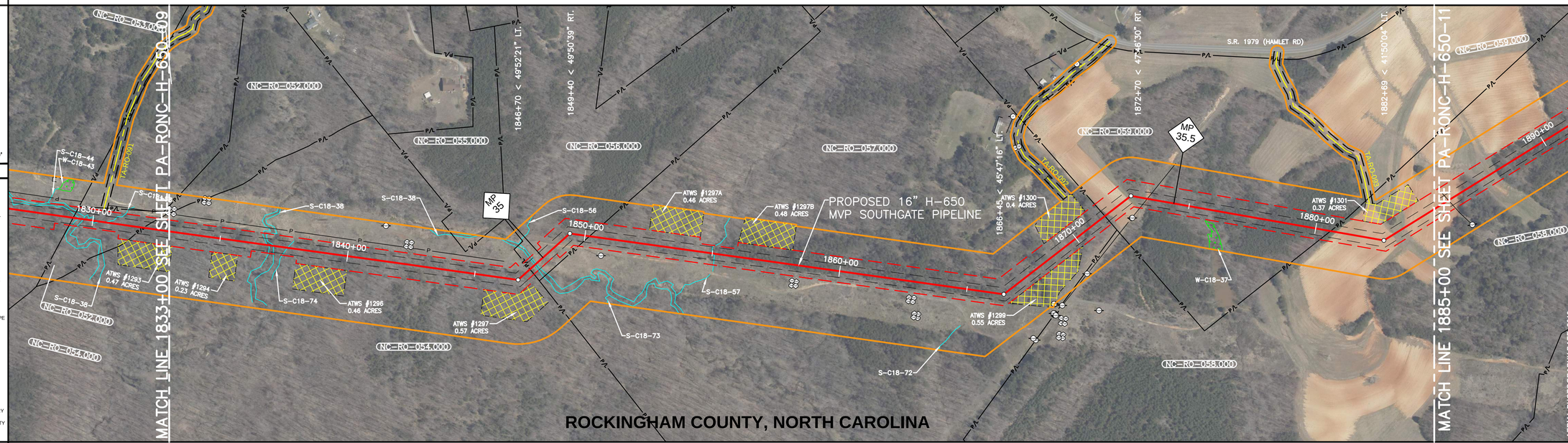
Mountain Valley PIPELINE LLC

PIPELINE ALIGNMENT

MVP SOUTHGATE PROJECT - H-650 LINE
ROCKINGHAM COUNTY, NORTH CAROLINA
STA. 1779+00 TO STA. 1833+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-RONC-H-650-09
SHEET: 37 OF 77	REV. P4
DATE OF PLOT:11/5/2018 4:05:36 PM	

RIGHT-OF-WAY & OWNERSHIP DATA	1833+00	NC-RO-054.000 1432 LF	1847+32	NC-RO-056.000 285 LF	1850+17	NC-RO-057.000 2125 LF	1871+42	NC-RO-059.000 917 LF	1880+59	NC-RO-058.000 441 LF	1885+00
DESIGN – PIPE / COATING	1833+00	8									1885+00
DESIGN – SLOPE DISTANCE											
DESIGN – CLASS LOCATION / HCA		1									
ENVIRONMENTAL – CONSTRUCTION EXCLUSION											
ENVIRONMENTAL – WETLAND / STREAM		S-C18-38 24 LF	S-C18-74 < 1 LF		S-C18-38 8 LF		S-C18-57 < 1 LF				
ENVIRONMENTAL – .											
ENVIRONMENTAL – .											



AERIAL PHOTOGRAPHY DATE: 2018

PLAN VIEW

0' 100' 200' 400'

LEGEND

- STUDY CORRIDOR
- PROPOSED PIPELINE
- NON-SURVEYED C/L
- EXISTING PIPELINE
- PERMANENT EASEMENT
- WORK SPACE LIMITS
- PERMANENT ACCESS RD
- TEMPORARY ACCESS RD
- COUNTY LINE
- PROPERTY LINE
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- FENCE LINE
- BURIED FIBER OPTIC
- OVERHEAD POWER
- OVERHEAD TELEPHONE
- C/L ROAD
- C/L RAILROAD
- DELINEATED STREAM
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- PI SYMBOL
- MAILBOX
- LINE MARKER - VENT PIPE
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- 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

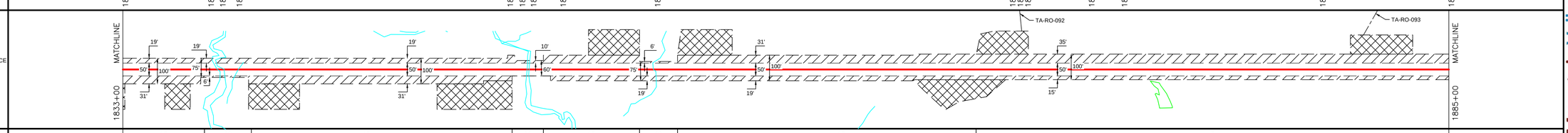
DRAWING NO.	DESCRIPTION

HORIZONTAL STATIONING

1833+00 MATCH LINE
1836+86 BEGIN STREAM (S-C18-38)
1837+10 END STREAM (S-C18-38)
1837+64 CL STREAM (S-C18-74)
1847+32 PROPERTY LINE
1847+57 BEGIN STREAM (S-C18-38)
1847+65 END STREAM (S-C18-38)
1850+17 PROPERTY LINE
1854+99 CL STREAM (S-C18-57)
1870+38 EDGE OF ROAD
1870+48 CL ACCESS RD (GRAVEL)
1870+54 EDGE OF ROAD
1871+42 PROPERTY LINE
1873+35 OVERHEAD TRANSMISSION LINE
1880+59 PROPERTY LINE
1885+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)

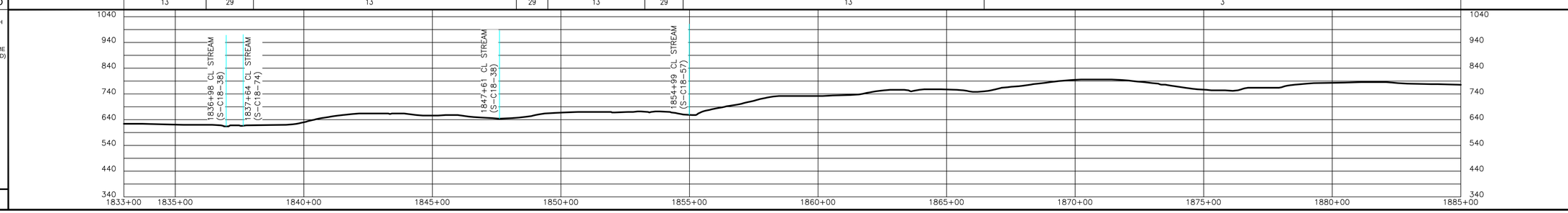


CONSTRUCTION METHOD

13 | 29 | 13 | 29 | 13 | 29 | 13 | 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 - HORIZONAL DIRECTIONAL DRILL (HDD)
13 - PARALLEL TO POWER LINES
17 - PARALLEL TO FORIEGN 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

TRC Results you can rely on

REVISIONS

REV.	BY	DATE	DESCRIPTION
P1	TRC	06/13/18	ISSUED FOR REVIEW
P2	TRC	08/20/18	FERC DRAFT
P3	TRC	10/22/18	ISSUED FOR CLIENT REVIEW
P4	TRC	11/06/18	ISSUED FOR FERC

MATERIAL SUMMARY

MK NO.	QTY.	DESCRIPTION
9	8200 LF	16"O.D. X 0.3750"W.T., X-65, TBE

APPROVED FOR CONSTRUCTION | APPROVED FOR BIDDING | APPROVED FOR FERC

REV.	BY	DATE
-	-	-

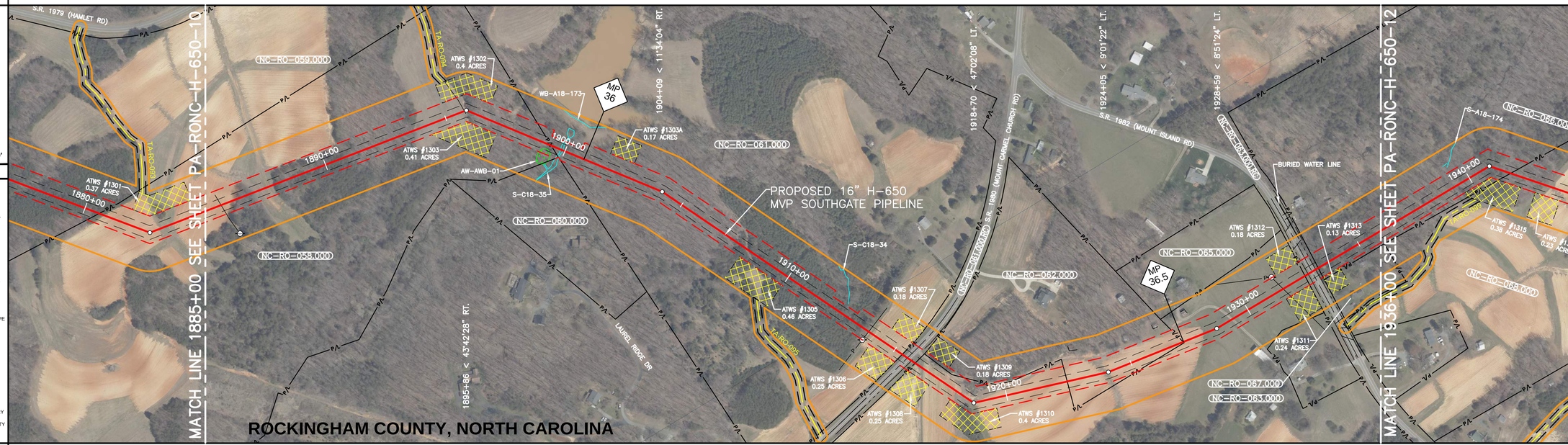
Mountain Valley PIPELINE LLC

PIPELINE ALIGNMENT

MVP SOUTHGATE PROJECT - H-650 LINE
ROCKINGHAM COUNTY, NORTH CAROLINA
STA. 1833+00 TO STA. 1885+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-RONC-H-650-10
SHEET: 38 OF 77	REV. P4
DATE OF PLOT:11/5/2018 4:05:55 PM	

RIGHT-OF-WAY & OWNERSHIP DATA	1885+00	NC-RO-058.000 1443 LF	1899+43	NC-RO-061.000 1591 LF	1915+34	NC-RO-061.000.RC 61 LF	1915+95	NC-RO-063.000 647 LF	1922+42	NC-RO-062.000 477 LF	1927+19	NC-RO-063.000 538 LF	1932+57	NC-RO-063.000.RC 60 LF	1933+17	NC-RO-066.000 283 LF	1936+00							
DESIGN – PIPE / COATING	1885+00	8			1915+23	9	1916+03	8					1932+47	9	1933+26	8	1936+00							
DESIGN – SLOPE DISTANCE																								
DESIGN – CLASS LOCATION / HCA		1		2		1		2																
ENVIRONMENTAL – CONSTRUCTION EXCLUSION																								
ENVIRONMENTAL – WETLAND / STREAM				S-C18-35 10 LF																				
ENVIRONMENTAL – .																								
ENVIRONMENTAL – .																								



PLAN VIEW

0' 100' 200' 400'

LEGEND

- STUDY CORRIDOR
- PROPOSED PIPELINE
- NON-SURVEYED C/L
- EXISTING PIPELINE
- PERMANENT EASEMENT
- WORK SPACE LIMITS
- PERMANENT ACCESS RD
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- PROPERTY LINE
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- C/L ROAD
- C/L RAILROAD
- DELINEATED STREAM
- DELINEATED WETLAND
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- WELL - WATER
- POST - GATE/FENCE
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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

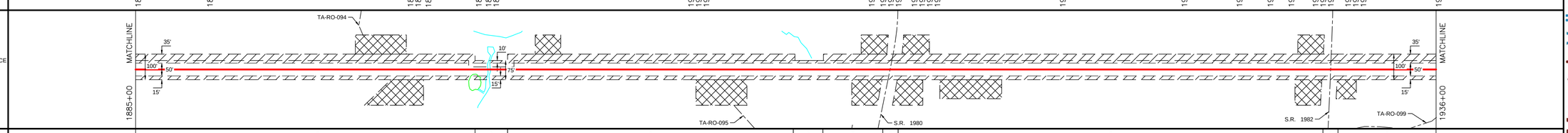
DRAWING NO.	DESCRIPTION

HORIZONTAL STATIONING

1885+00 MATCH LINE
1885+65 OVERHEAD POWER LINE
1895+68 EDGE OF ROAD
1895+78 CL ROAD (DIRT)
1895+88 EDGE OF ROAD
1899+43 PROPERTY LINE
1899+81 BEGIN STREAM (S-C18-35)
1899+91 END STREAM (S-C18-35)
1908+18 EDGE OF ROAD
1908+23 CL ACCESS RD (GRAVEL)
1908+30 EDGE OF ROAD
1913+77 OVERHEAD POWER LINE
1915+34 PROPERTY LINE
1915+47 EDGE OF ROAD
1915+59 CL S.R. 1980 (MOUNT CARMEL CHURCH RD)(ASPHALT)
1915+70 EDGE OF ROAD
1915+78 EDGE OF ROAD
1915+95 PROPERTY LINE
1916+23 CL ACCESS RD (DIRT)
1922+42 PROPERTY LINE
1927+19 PROPERTY LINE
1929+27 CL RD (GRAVEL)
1931+59 OVERHEAD POWER LINE
1932+57 PROPERTY LINE
1932+71 CL DITCH
1932+78 EDGE OF ROAD
1932+89 CL S.R. 1982 (WOLF ISLAND RD)(ASPHALT)
1933+00 EDGE OF ROAD
1933+06 CL DITCH
1933+17 PROPERTY LINE
1936+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)



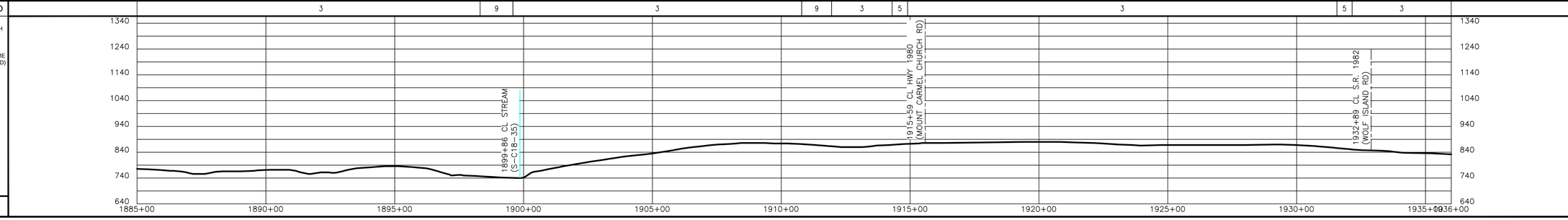
CONSTRUCTION METHOD

3 | 9 | 3 | 5 | 3 | 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 - HORIZONAL DIRECTIONAL DRILL (HDD)
13 - PARALLEL TO POWER LINES
17 - PARALLEL TO FORIEGN 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



ISSED FOR FERC

TRC Results you can rely on

REVISIONS

REV.	BY	DATE	DESCRIPTION
P1	TRC	06/13/18	ISSUED FOR REVIEW
P2	TRC	08/20/18	FERC DRAFT
P3	TRC	10/22/18	ISSUED FOR CLIENT REVIEW
P4	TRC	11/06/18	ISSUED FOR FERC

MATERIAL SUMMARY

MK NO.	QTY.	DESCRIPTION
8	1441 LF	16"O.D. X 0.375"W.T. PIPE
9	159 LF	16"O.D. X 0.375"W.T. X-65, FBE & POWERCRETE

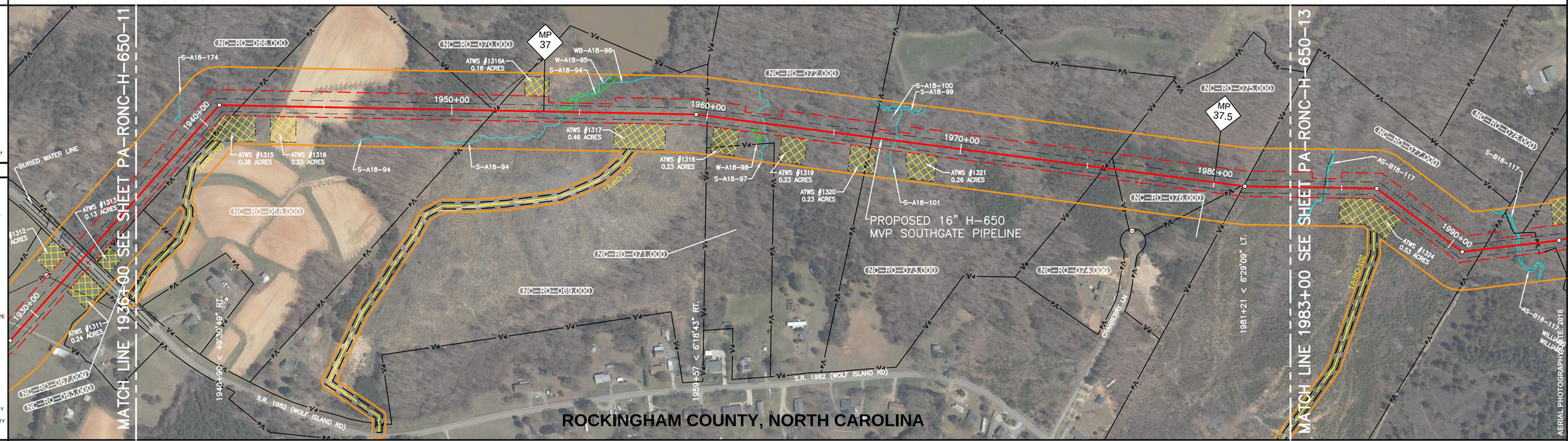
APPROVED FOR CONSTRUCTION — REV. | BY | DATE
APPROVED FOR BIDDING — REV. | BY | DATE
APPROVED FOR FERC — REV. | BY | DATE

Mountain Valley PIPELINE LLC

PIPELINE ALIGNMENT
MVP SOUTHGATE PROJECT - H-650 LINE
ROCKINGHAM COUNTY, NORTH CAROLINA
STA. 1885+00 TO STA. 1936+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-RONC-H-650-11
SHEET: 39 OF 77 REV. P4
DATE OF PLOT:11/5/2018 4:06:07 PM

RIGHT-OF-WAY & OWNERSHIP DATA																							
	1936+00	NC-RO-066.000	1941+77	NC-RO-068.000	1951+66	NC-RO-070.000	1951+69	NC-RO-069.000	1960+00	NC-RO-072.000	1966+51	NC-RO-073.000	1975+67	NC-RO-074.000	1976+09	NC-RO-075.000	1981+09	NC-RO-076.000	1981+17	NC-RO-077.000	1983+00		
		577 LF		989 LF		3 LF		831 LF		651 LF		916 LF		42 LF		500 LF		8 LF		183 LF			
DESIGN — PIPE / COATING	1936+00	8																			1983+00		
DESIGN — SLOPE DISTANCE																							
DESIGN — CLASS LOCATION / HCA		2		1									2	1		2				1			
ENVIRONMENTAL — CONSTRUCTION EXCLUSION																							
ENVIRONMENTAL — WETLAND / STREAM								S-A18-94 < 1 LF	W-A18-95 8 LF			S-A18-97 < 1 LF		S-A18-101 < 1 LF									
ENVIRONMENTAL — .																							
ENVIRONMENTAL — .																							



PLAN VIEW

LEGEND

- STUDY CORRIDOR
- PROPOSED PIPELINE
- NON-SURVEYED C/L
- 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

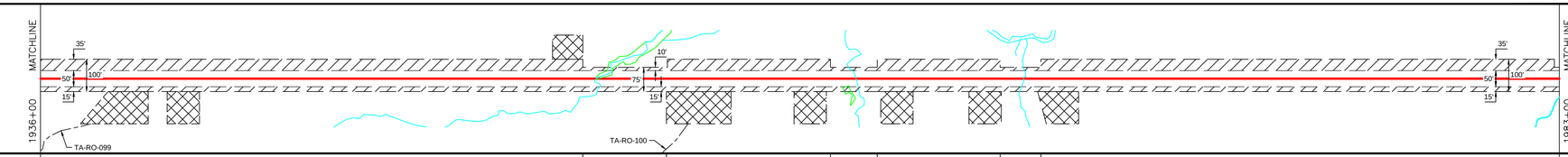
DRAWING NO.	DESCRIPTION

HORIZONTAL STATIONING

1936+00 MATCH LINE
1941+77 PROPERTY LINE
1951+66 PROPERTY LINE
1951+69 PROPERTY LINE
1954+19 CL STREAM (S-A18-94)
1954+22 BEGIN WETLAND (W-A18-95)
1954+30 END WETLAND (W-A18-95)
1960+00 PROPERTY LINE
1962+24 CL STREAM (S-A18-97)
1966+51 PROPERTY LINE
1967+43 CL STREAM (S-A18-101)
1975+67 PROPERTY LINE
1976+09 PROPERTY LINE
1981+09 PROPERTY LINE
1981+17 PROPERTY LINE
1983+00 MATCH LINE

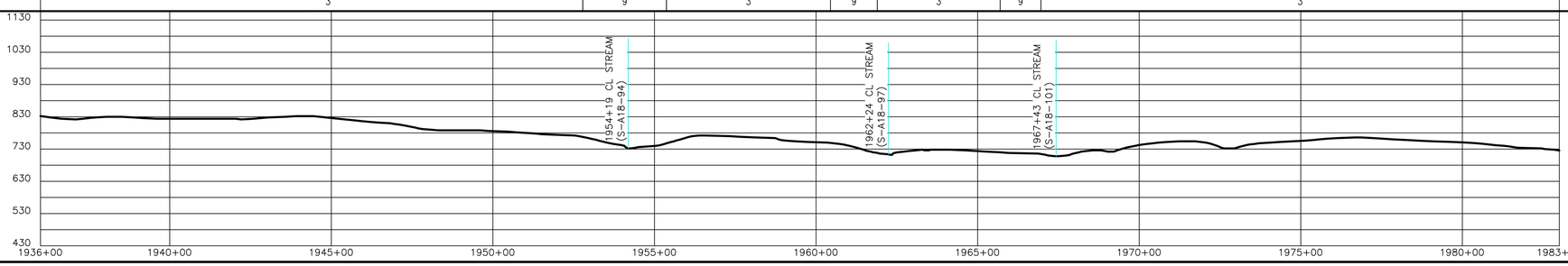
WORK SPACE

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



CONSTRUCTION METHOD

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 - HORIZONAL DIRECTIONAL DRILL (HDD)
13 - PARALLEL TO POWER LINES
17 - PARALLEL TO FORIEGN 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

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	11/06/18	ISSUED FOR FERC

MATERIAL SUMMARY

MK NO.	QTY.	DESCRIPTION
8	4,700 LF	16"O.D. X 0.3125"W.T., X-65, TBE

AERIAL PHOTOGRAPHY: WILLIAMS DATE: 2018

APPROVED FOR CONSTRUCTION			
REV.	BY	DATE	

APPROVED FOR BIDDING			
REV.	BY	DATE	

APPROVED FOR FERC			
REV.	BY	DATE	

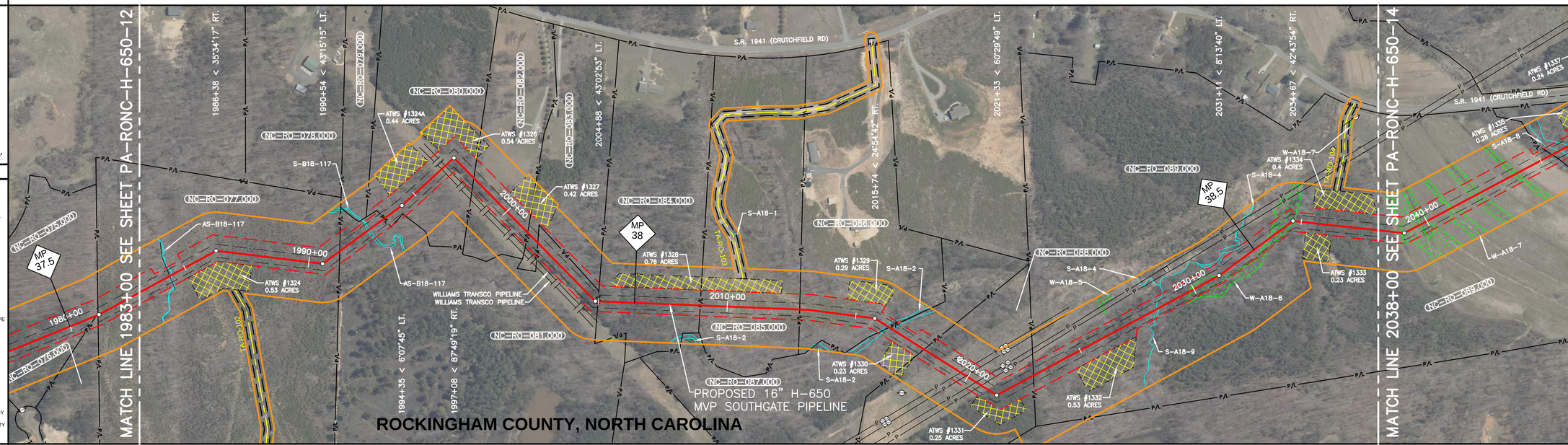
Mountain Valley PIPELINE LLC

PIPELINE ALIGNMENT

MVP SOUTHGATE PROJECT - H-650 LINE
ROCKINGHAM COUNTY, NORTH CAROLINA
STA. 1936+00 TO STA. 1983+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-RONC-H-650-12
SHEET: 40 OF 77 REV. P4
DATE OF PLOT:11/5/2018 4:06:27 PM

RIGHT-OF-WAY & OWNERSHIP DATA																									
	1983+00	NC-RO-077.000	1991+36	NC-RO-081.000	1993+49	NC-RO-080.000	1998+18	NC-RO-082.000	2001+15	NC-RO-083.000	2001+71	NC-RO-081.000	2004+99	NC-RO-084.000	2008+95	NC-RO-085.000	2012+81	NC-RO-086.000	2016+40	NC-RO-087.000	2018+00	NC-RO-088.000	2022+95	NC-RO-089.000	2038+00
		836 LF		213 LF		469 LF		297 LF		56 LF		328 LF		396 LF		386 LF		359 LF		160 LF		495 LF		1505 LF	
DESIGN – PIPE / COATING	1983+00	8																							2038+00
DESIGN – SLOPE DISTANCE																									
DESIGN – CLASS LOCATION / HCA		1																							
ENVIRONMENTAL – CONSTRUCTION EXCLUSION																									
ENVIRONMENTAL – WETLAND / STREAM		AS-B18-117 2 LF		AS-B18-117 10 LF												S-A18-2 20 LF						S-A18-9 < 1 LF	W-A18-6 129 LF	W-A18-6 137 LF	
ENVIRONMENTAL – .																									
ENVIRONMENTAL – .																									



PLAN VIEW

LEGEND

- STUDY CORRIDOR
- PROPOSED PIPELINE
- NON-SURVEYED C/L
- 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

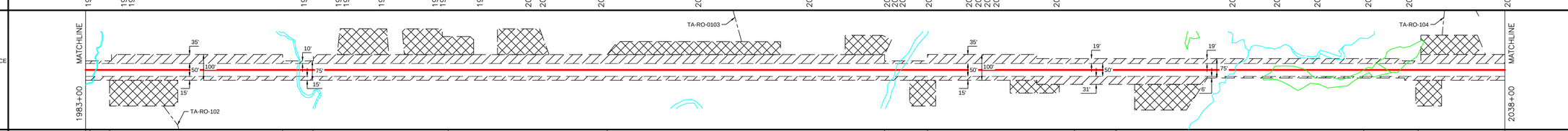
DRAWING NO.	DESCRIPTION

HORIZONTAL STATIONING

1983+00 MATCH LINE
1984+38 BEGIN STREAM (AS-B18-117)
1984+40 END STREAM (AS-B18-117)
1991+36 PROPERTY LINE
1992+70 BEGIN STREAM (AS-B18-117)
1992+80 END STREAM (AS-B18-117)
1993+49 PROPERTY LINE
1996+44 WILLIAMS TRANSCO PIPELINE
1996+63 WILLIAMS TRANSCO PIPELINE
1998+18 PROPERTY LINE
2001+15 PROPERTY LINE
2001+71 PROPERTY LINE
2004+99 PROPERTY LINE
2008+95 PROPERTY LINE
2012+81 PROPERTY LINE
2016+27 BEGIN STREAM (S-A18-2)
2016+40 PROPERTY LINE
2016+47 END STREAM (S-A18-2)
2018+00 PROPERTY LINE
2019+67 OVERHEAD TRANSMISSION LINE
2019+92 OVERHEAD TRANSMISSION LINE
2020+38 OVERHEAD TRANSMISSION LINE
2020+62 OVERHEAD TRANSMISSION LINE
2022+95 PROPERTY LINE
2028+42 CL STREAM (S-A18-9)
2029+85 BEGIN WETLAND (W-A18-6)
2031+14 END WETLAND (W-A18-6)
2033+39 BEGIN WETLAND (W-A18-6)
2034+76 END WETLAND (W-A18-6)
2038+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)



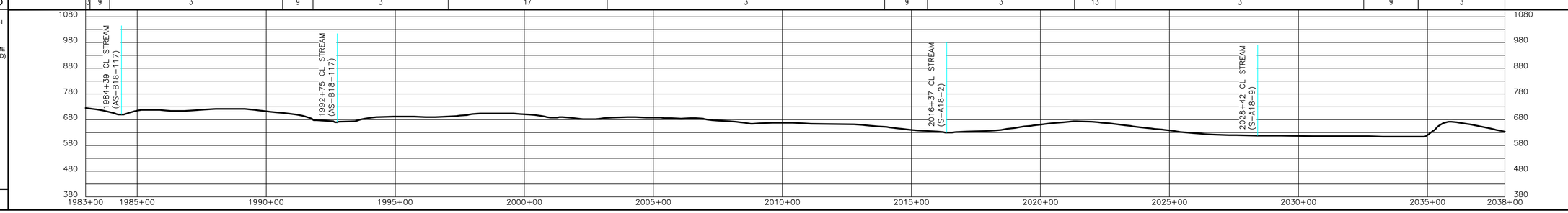
CONSTRUCTION METHOD

3	9	3	9	3	17	3	9	3	13	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 FORIEGN 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

TRC Results you can rely on

REVISIONS

REV.	BY	DATE	DESCRIPTION
P1	TRC	08/31/18	ISSUED FOR REVIEW
P2	TRC	08/20/18	FERC DRAFT
P3	TRC	10/22/18	ISSUED FOR CLIENT REVIEW
P4	TRC	11/06/18	ISSUED FOR FERC

AERIAL PHOTOGRAPHY DATE: 2018

MATERIAL SUMMARY

MK NO.	QTY.	DESCRIPTION
9	5500 LF	16"O.D. X 0.3750"W.T. X-65 TBE

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
ROCKINGHAM COUNTY, NORTH CAROLINA
STA. 1983+00 TO STA. 2038+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-RONC-H-650-13	
SHEET: 41 OF 77		REV. P4
DATE OF PLOT:11/5/2018 4:06:39 PM		

RIGHT-OF-WAY & OWNERSHIP DATA	2038+00	NC-RO-089.000 749 LF	2045+49	NC-RO-090.000 380 LF	2049+29	NC-RO-090.000.RC 58 LF	2049+87	NC-RO-091.000 1207 LF	2061+94	NC-RO-092.000 1318 LF	2075+12	NC-RO-094.000 472 LF	2079+84	NC-RO-095.000 716 LF	2087+00

DESIGN								
PIPE / COATING	2038+00	8	2049+21	9	2049+98	8	2087+00	
SLOPE DISTANCE								
CLASS LOCATION / HCA		1				2		

ENVIRONMENTAL							
CONSTRUCTION EXCLUSION							
WETLAND / STREAM	W-A18-7 110 LF	W-A18-7 17 LF	W-A18-7 28 LF	W-A18-7 16 LF	AS-A18-8 42 LF	S-B18-72 < 1 LF	S-B18-74 < 1 LF
.							
.							

0' 100' 200' 400'

PLAN VIEW

LEGEND

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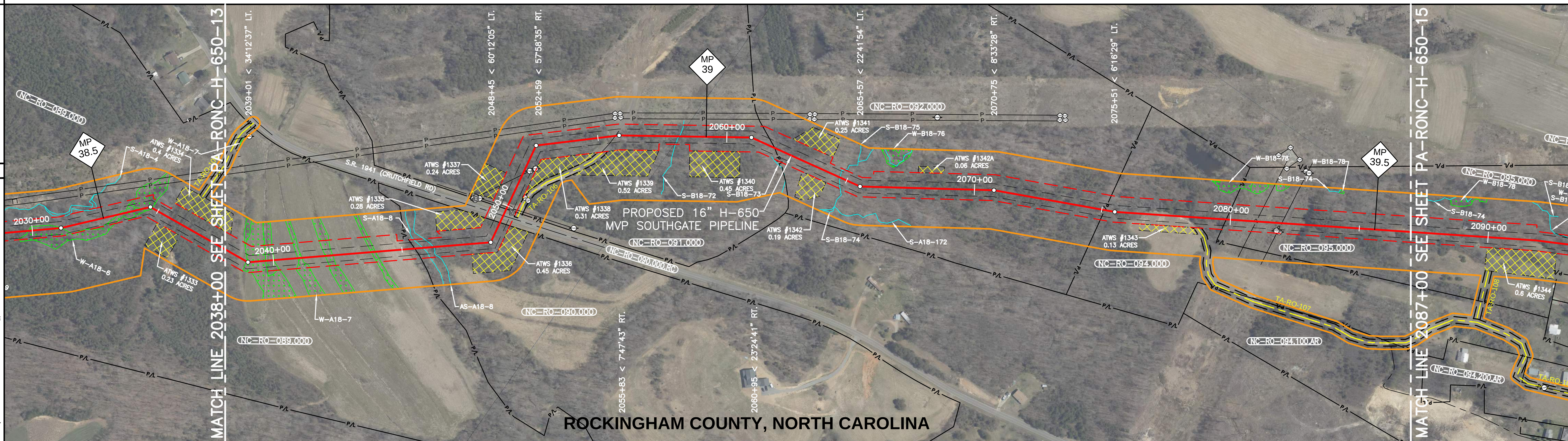
- PEDESTAL - UTILITY
- MH - SANITARY/WATER
- MAINLINE VALVE
- HDD ENTRY/EXIT
- ADDITIONAL TEMPORARY WORK SPACE(ATWS)
- ABOVE GROUND FACILITY
- CONTRACTOR YARD



ISSUED FOR FERC

REFERENCE DRAWINGS

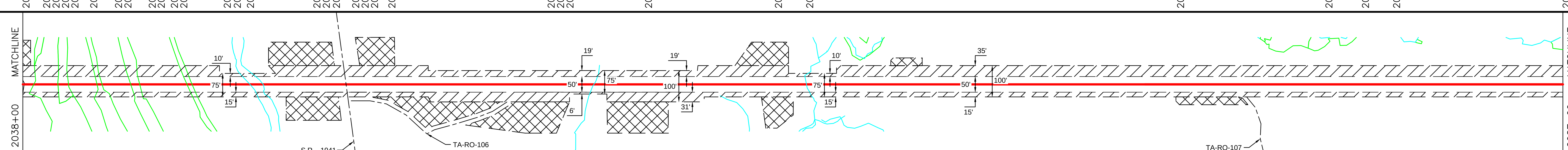
DRAWING NO.	DESCRIPTION

HORIZONTAL STATIONING

2038+00 MATCH LINE
2038+66 EDGE OF ROAD
2038+73 CL RD (GRASS)
2038+80 EDGE OF ROAD
2038+94 BEGIN WETLAND (W-A18-7)
2040+04 END WETLAND (W-A18-7)
2040+94 BEGIN WETLAND (W-A18-7)
2041+11 END WETLAND (W-A18-7)
2042+02 BEGIN WETLAND (W-A18-7)
2042+30 END WETLAND (W-A18-7)
2043+81 BEGIN WETLAND (W-A18-7)
2043+97 END WETLAND (W-A18-7)
2045+49 PROPERTY LINE
2045+81 BEGIN STREAM (AS-A18-8)
2046+23 END STREAM (AS-A18-8)
2049+29 PROPERTY LINE
2049+49 EDGE OF ROAD
2049+59 CL S.R. 1941 (CRUTCHFIELD ROAD)(ASPHALT)
2049+69 EDGE OF ROAD
2049+87 PROPERTY LINE
2049+96 OVERHEAD POWER LINE
2051+34 OVERHEAD POWER LINE
2055+61 EDGE OF ROAD
2055+68 CL ACCESS RD (GRAVEL)
2055+75 EDGE OF ROAD
2058+15 CL STREAM (S-B18-72)
2061+94 PROPERTY LINE
2064+72 CL STREAM (S-B18-74)
2075+12 PROPERTY LINE
2079+84 PROPERTY LINE
2081+00 OVERHEAD POWER LINE
2081+99 OVERHEAD POWER LINE
2087+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)

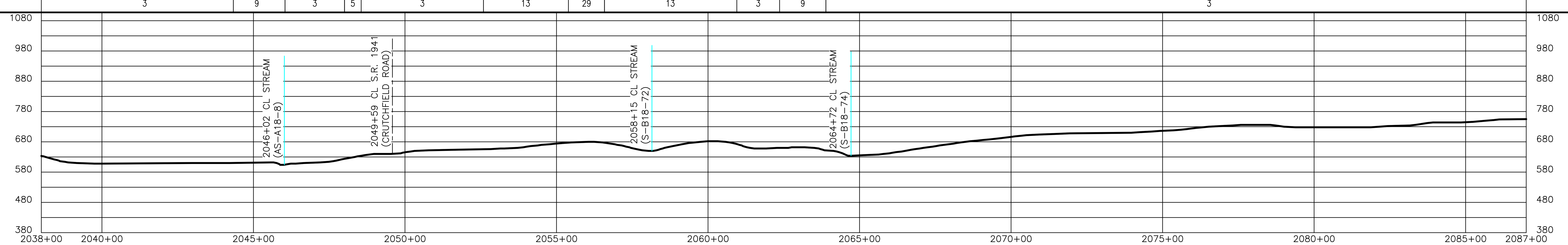


CONSTRUCTION METHOD

3	9	3	5	3	13	29	13	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 - HORIZONAL DIRECTIONAL DRILL (HDD)
13 - PARALLEL TO POWER LINES
17 - PARALLEL TO FORIEGN 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	11/02/18	ISSUED FOR FERC

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
8	4823 LF	16"O.D. X 0.375"W.T., X-65, FBE
9	77 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

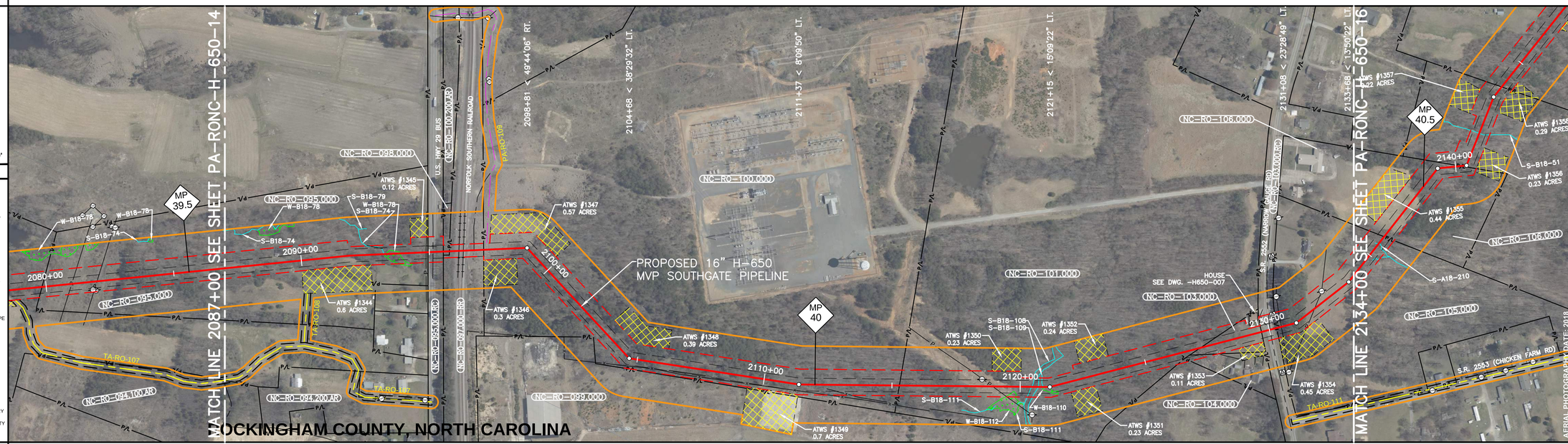
REV.	BY	DATE
.	.	.

Mountain Valley PIPELINE LLC

PIPELINE ALIGNMENT
MVP SOUTHGATE PROJECT - H-650 LINE
ROCKINGHAM COUNTY, NORTH CAROLINA
STA. 2038+00 TO STA. 2087+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-RONC-H-650-14	
SHEET: 42 OF 77	REV. P4
DATE OF PLOT:11/5/2018 4:06:51 PM	

RIGHT-OF-WAY & OWNERSHIP DATA		2087+00	NC-RO-095.000 795 LF	2094+95	NC-RO-095.000.RC 60 LF	2095+55	NC-RO-098.000 24 LF	2095+79	NC-RO-097.000.RR 133 LF	2097+12	NC-RO-100.000 1817 LF	2115+29	NC-RO-101.000 1192 LF	2127+21	NC-RO-103.000 247 LF	2129+68	NC-RO-103.000.RC 61 LF	2130+29	NC-RO-105.000 371 LF	2134+00
DESIGN	PIPE / COATING	2087+00	8	2094+84	9					2097+21	8					2129+56	9	2130+38	8	2134+00
	SLOPE DISTANCE																			
	CLASS LOCATION / HCA		2						3		2		1				2			
ENVIRONMENTAL	CONSTRUCTION EXCLUSION																			
	WETLAND / STREAM				S-B18-74 < 1 LF		W-B18-78 56 LF								S-B18-108 27 LF		S-B18-109 < 1 LF			
	.																			
	.																			



PLAN VIEW

0' 100' 200' 400'

LEGEND

- STUDY CORRIDOR
- PROPOSED PIPELINE
- NON-SURVEYED C/L
- EXISTING PIPELINE
- PERMANENT EASEMENT
- WORK SPACE LIMITS
- PERMANENT ACCESS RD
- TEMPORARY ACCESS RD
- COUNTY LINE
- PROPERTY LINE
- ROAD RIGHT-OF-WAY
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- MH - SANITARY/WATER
- MAINLINE VALVE
- HDD ENTRY/EXIT
- ADDITIONAL TEMPORARY WORK SPACE(ATWS)
- ABOVE GROUND FACILITY
- CONTRACTOR YARD

REFERENCE DRAWINGS

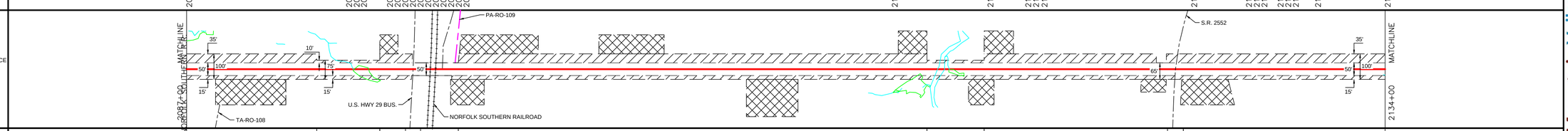
DRAWING NO.	DESCRIPTION
RSS-H650-007	RESIDENTIAL SITE SPECIFIC

HORIZONTAL STATIONING

2087+00 MATCH LINE
2093+27 CL STREAM (S-B18-74)
2093+29 BEGIN WETLAND (W-B18-78)
2093+85 END WETLAND (W-B18-78)
2094+87 OVERHEAD POWER LINE
2094+95 PROPERTY LINE
2095+03 EDGE OF ROAD
2095+14 CL U.S. HWY 29 BUS (ASPHALT)
2095+25 EDGE OF ROAD
2095+55 PROPERTY LINE
2095+79 PROPERTY LINE
2096+15 CL NORFOLK SOUTHERN RAILROAD
2096+34 CL NORFOLK SOUTHERN RAILROAD
2096+75 CL ACCESS RD
2097+12 PROPERTY LINE
2115+29 PROPERTY LINE
2118+93 OVERHEAD POWER LINE
2120+45 BEGIN STREAM (S-B18-108)
2120+72 END STREAM (S-B18-108)
2120+90 CL STREAM (S-B18-109)
2127+21 PROPERTY LINE
2129+68 PROPERTY LINE
2129+92 EDGE OF ROAD
2130+02 CL S.R. 2552(NARROW GAUGE RD.)
2130+12 EDGE OF ROAD (ASPHALT)
2130+29 PROPERTY LINE
2130+48 OVERHEAD POWER LINE
2131+99 OVERHEAD POWER LINE
2134+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)



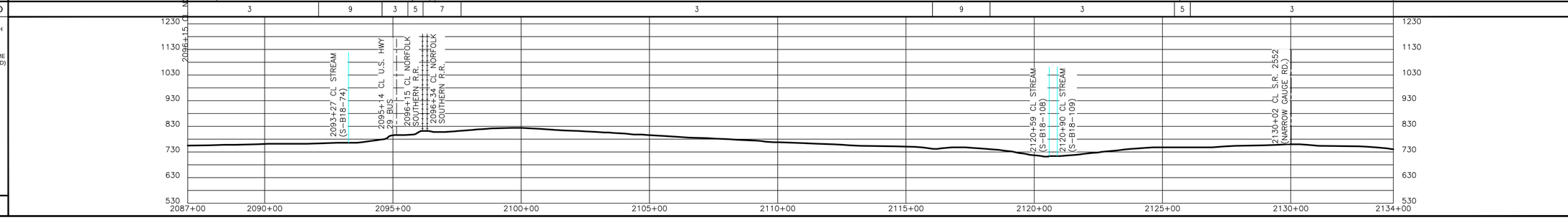
CONSTRUCTION METHOD

2087+00 – 2093+27	2093+27 – 2094+87	2094+87 – 2095+14	2095+14 – 2095+55	2095+55 – 2096+15	2096+15 – 2115+29	2115+29 – 2120+45	2120+45 – 2120+90	2120+90 – 2127+21	2127+21 – 2130+02	2130+02 – 2134+00
3	9	3	5	7	3	9	3	3	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 - HORIZONAL DIRECTIONAL DRILL (HDD)
- 13 - PARALLEL TO POWER LINES
- 17 - PARALLEL TO FORIEGN 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	06/13/18	ISSUED FOR REVIEW
P2	TRC	08/20/18	FERC DRAFT
P3	TRC	10/22/18	ISSUED FOR CLIENT REVIEW
P4	TRC	11/06/18	ISSUED FOR FERC

MATERIAL SUMMARY

MK NO.	QTY.	DESCRIPTION
8	4,941 LF	16"O.D. X 0.375"W.T. FBE
9	319 LF	16"O.D. X 0.375"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

ISSUED FOR FERC

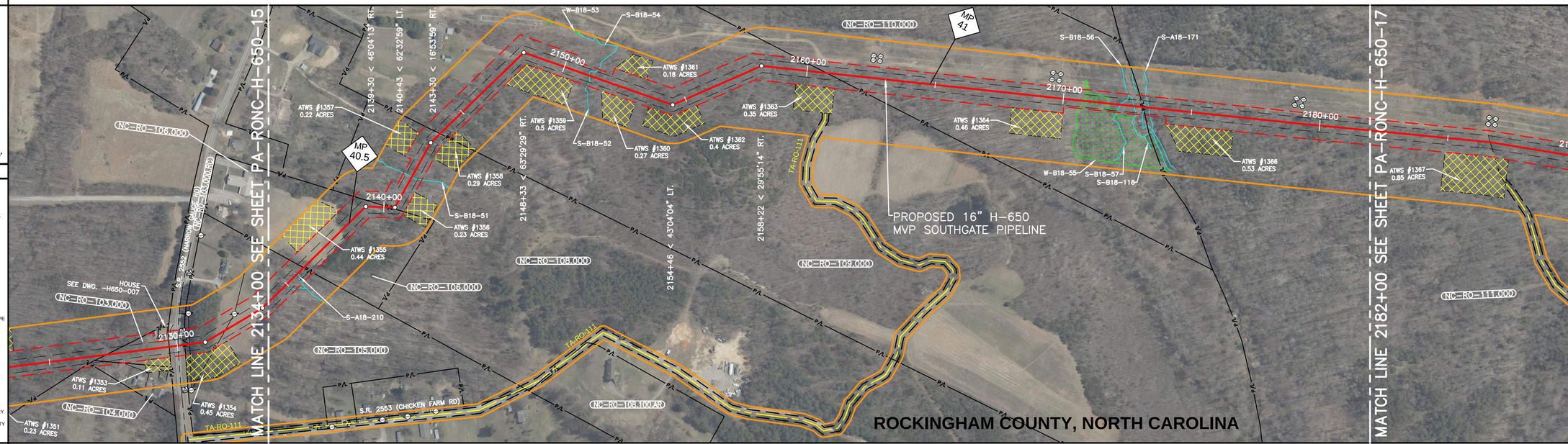
Mountain Valley PIPELINE LLC

PIPELINE ALIGNMENT

MVP SOUTHGATE PROJECT - H-650 LINE
ROCKINGHAM COUNTY, NORTH CAROLINA
STA. 2087+00 TO STA. 2134+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-RONC-H-650-15
SHEET: 43 OF 77	REV. P4
DATE OF PLOT: 11/5/2018 4:07:06 PM	

RIGHT-OF-WAY & OWNERSHIP DATA																							
		2134+00	NC-RO-105.000		2135+92	NC-RO-106.000		2140+21	NC-RO-108.000		2143+80	NC-RO-109.000			2160+76	NC-RO-110.000			2173+11	NC-RO-111.000		2182+00	
			192 LF			429 LF			359 LF			1696 LF				1235 LF				889 LF			
DESIGN	PIPE / COATING	2134+00	8																			2182+00	
DESIGN	SLOPE DISTANCE																						
DESIGN	CLASS LOCATION / HCA		2									1											
ENVIRONMENTAL	CONSTRUCTION EXCLUSION																						
ENVIRONMENTAL	WETLAND / STREAM			S-A18-210 < 1 LF			S-B18-51 < 1 LF				S-B18-52 < 1 LF						W-B18-55 93 LF	S-B18-57 < 1 LF	S-B18-56 39 LF	S-A18-171 < 1 LF			
ENVIRONMENTAL	.																						
ENVIRONMENTAL	.																						



0' 100' 200' 400'

PLAN VIEW

LEGEND

- STUDY CORRIDOR
- PROPOSED PIPELINE
- NON-SURVEYED C/L
- 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

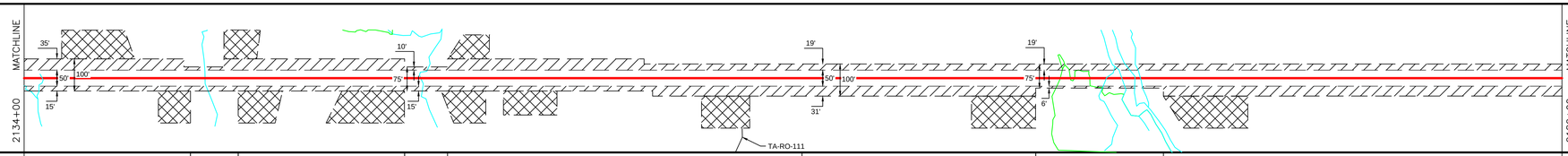
DRAWING NO.	DESCRIPTION

HORIZONTAL STATIONING

2134+00 MATCH LINE
2135+57 CL STREAM (S-A18-210)
2135+92 PROPERTY LINE
2140+21 PROPERTY LINE
2141+78 CL STREAM (S-B18-51)
2143+80 PROPERTY LINE
2151+03 CL STREAM (S-B18-52)
2160+43 CL ACCESS ROAD (DIRT)
2160+76 PROPERTY LINE
2170+81 BEGIN WETLAND (W-B18-55)
2171+74 END WETLAND (W-B18-55)
2172+24 CL STREAM (S-B18-57)
2172+76 BEGIN STREAM (S-B18-56)
2173+11 PROPERTY LINE
2173+15 END STREAM (S-B18-56)
2173+33 CL STREAM (S-A18-171)
2182+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)

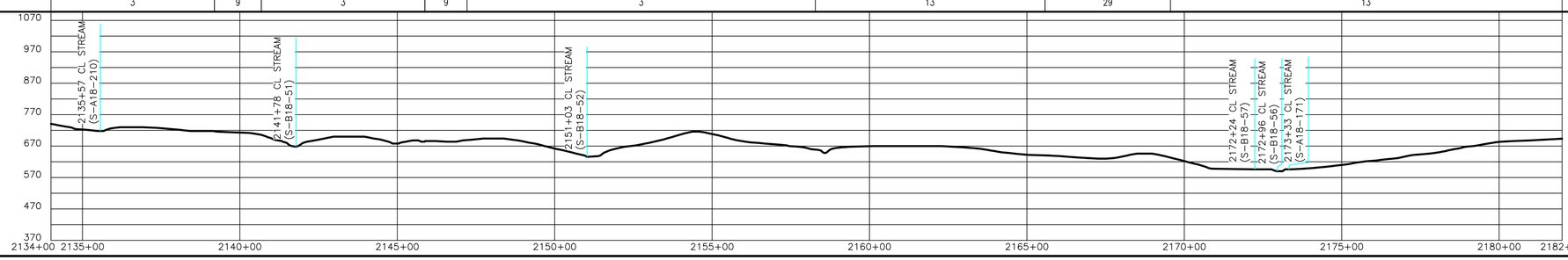


CONSTRUCTION METHOD

3 | 9 | 3 | 9 | 3 | 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 - HORIZONAL DIRECTIONAL DRILL (HDD)
13 - PARALLEL TO POWER LINES
17 - PARALLEL TO FORIEGN 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	06/13/18	ISSUED FOR REVIEW
P2	TRC	08/20/18	FERC DRAFT
P3	TRC	10/22/18	ISSUED FOR CLIENT REVIEW
P4	TRC	11/06/18	ISSUED FOR FERC

AERIAL PHOTOGRAPHY DATE: 2018

MATERIAL SUMMARY

MK NO.	QTY.	DESCRIPTION
9	4600 LF	16"O.D. X 0.375"W.T., X-65, TBE

APPROVED FOR CONSTRUCTION			
REV.	BY	DATE	

APPROVED FOR BIDDING			
REV.	BY	DATE	

APPROVED FOR FERC			
REV.	BY	DATE	

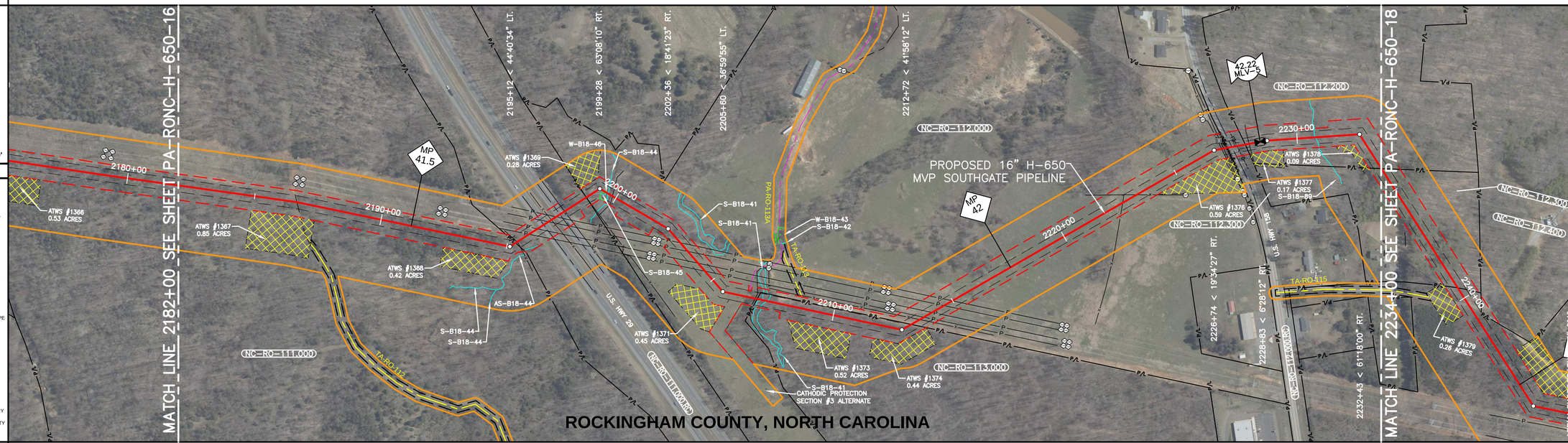
ISSUED FOR FERC

Mountain Valley PIPELINE LLC

PIPELINE ALIGNMENT
MVP SOUTHGATE PROJECT - H-650 LINE
ROCKINGHAM COUNTY, NORTH CAROLINA
STA. 2134+00 TO STA. 2182+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-RONC-H-650-16
SHEET: 44 OF 77 REV. P4
DATE OF PLOT:11/5/2018 4:07:23 PM

RIGHT-OF-WAY & OWNERSHIP DATA	2182+00	NC-RO-111.000 1338 LF	2195+38	NC-RO-111.000.RC 328 LF	2198+66	NC-RO-112.000 831 LF	2206+97	NC-RO-113.000 617 LF	2213+14	NC-RO-112.000 1411 LF	2227+25	NC-RO-112.000.RC 72 LF	2227+97	NC-RO-112.200 603 LF	2234+00
DESIGN – PIPE / COATING	2182+00	8	2195+27	9	2198+75	8					2227+12	9	2228+05	8	2234+00
DESIGN – SLOPE DISTANCE															
DESIGN – CLASS LOCATION / HCA		1								2					
ENVIRONMENTAL – CONSTRUCTION EXCLUSION															
ENVIRONMENTAL – WETLAND / STREAM						W-B18-46 6 LF	S-B18-44 < 1 LF		S-B18-41 20 LF					S-B18-89 < 1 LF	
ENVIRONMENTAL – .															
ENVIRONMENTAL – .															



PLAN VIEW

0' 100' 200' 400'

LEGEND

- STUDY CORRIDOR
- PROPOSED PIPELINE
- NON-SURVEYED C/L
- 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

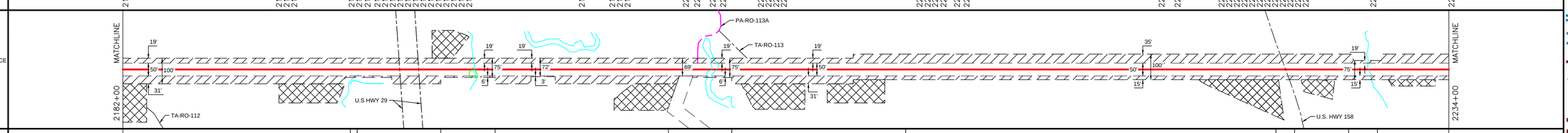
DRAWING NO.	DESCRIPTION
X-X-XXXX-1100-01	PROPOSED MAIN LINE VALVE PLOT PLAN

HORIZONTAL STATIONING

2182+00 MATCH LINE
2186+60 EDGE OF ROAD
2186+66 CL ACCESS RD (ASPHALT)
2188+70 EDGE OF ROAD
2195+38 PROPERTY LINE
2195+46 FENCE, 4.5' HOG & BARBED WIRE
2196+01 OVERHEAD TRANSMISSION LINE
2196+39 OVERHEAD TRANSMISSION LINE
2196+59 EDGE OF ROAD
2196+69 CL U.S. HWY 29 (ASPHALT)
2196+88 EDGE OF ROAD
2196+91 OVERHEAD TRANSMISSION LINE
2197+04 FENCE, 4.5' HOG & BARBED WIRE
2197+22 OVERHEAD TRANSMISSION LINE
2197+26 OVERHEAD TRANSMISSION LINE
2197+43 CL U.S. HWY 29 (ASPHALT)
2197+62 EDGE OF ROAD
2198+45 FENCE, 4.5' HOG & BARBED WIRE
2198+65 FENCE, 4.5' HOG & BARBED WIRE
2198+66 PROPERTY LINE
2199+50 BEGIN WETLAND (W-B18-46)
2199+56 END WETLAND (W-B18-46)
2199+66 CL STREAM (S-B18-44)
2199+85 FENCE, 4.5' ELECTRIC
2203+09 OVERHEAD TRANSMISSION LINE
2203+53 OVERHEAD TRANSMISSION LINE
2204+14 OVERHEAD TRANSMISSION LINE
2204+55 OVERHEAD TRANSMISSION LINE
2206+89 FENCE, 4' ELECTRIC
2206+97 PROPERTY LINE
2207+17 BEGIN STREAM (S-B18-41)
2207+37 END STREAM (S-B18-41)
2213+14 PROPERTY LINE
2213+53 FENCE, 4' ELECTRIC
2213+71 OVERHEAD TRANSMISSION LINE
2214+08 OVERHEAD TRANSMISSION LINE
2214+61 OVERHEAD TRANSMISSION LINE,
2214+99 OVERHEAD TRANSMISSION LINE, END PARALLEL
2222+63 FENCE, 4' ELECTRIC
2223+26 FENCE, 4' ELECTRIC
2227+03 FENCE, 4' ELECTRIC
2227+11 OVERHEAD POWER LINE
2227+21 BURIED FIBER OPTIC CABLE
2227+24 BURIED TELEPHONE CABLE
2227+28 PROPERTY LINE
2227+29 BURIED TELEPHONE CABLE
2227+45 CL U.S. HWY 158 (ASPHALT)
2227+64 EDGE OF ROAD
2227+66 BURIED FIBER OPTIC CABLE
2227+97 PROPERTY LINE
2228+12 OVERHEAD POWER LINE
2230+72 CL STREAM (S-B18-89)
2234+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

13 | 3 | 5 | 9 | 3 | 9 | 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 - HORIZONAL DIRECTIONAL DRILL (HDD)
- 13 - PARALLEL TO POWER LINES
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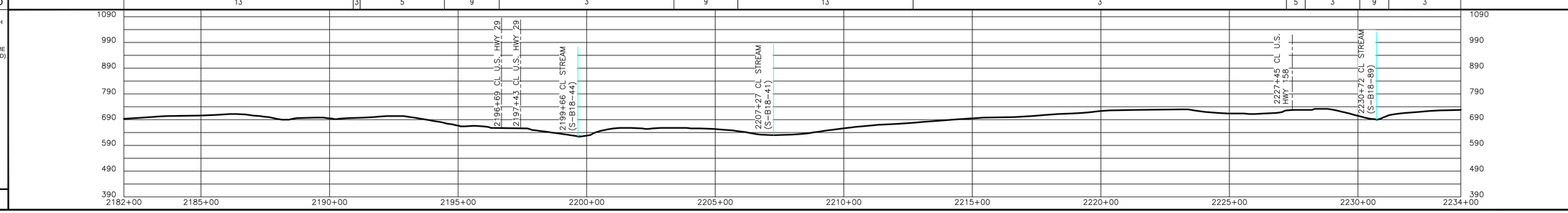
- 25 - ROAD X-ING BORED WITH PARALLEL PIPELINES
- 27 - RAILROAD X-ING BORED WITH PARALLEL PIPELINES
- 29 - WATERBODY X-ING WITH PARALLEL PIPELINES OPEN CUT - FLUME

PROFILE



ISSUED FOR FERC

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	11/06/18	ISSUED FOR FERC

MATERIAL SUMMARY

MK NO.	QTY.	DESCRIPTION
8	4759 LF	16"O.D. X 0.375"W.T. X-65, FBE
9	441 LF	16"O.D. X 0.375"W.T. X-65, FBE & POWERCRETE

AERIAL PHOTOGRAPHY - AUG. 2018

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

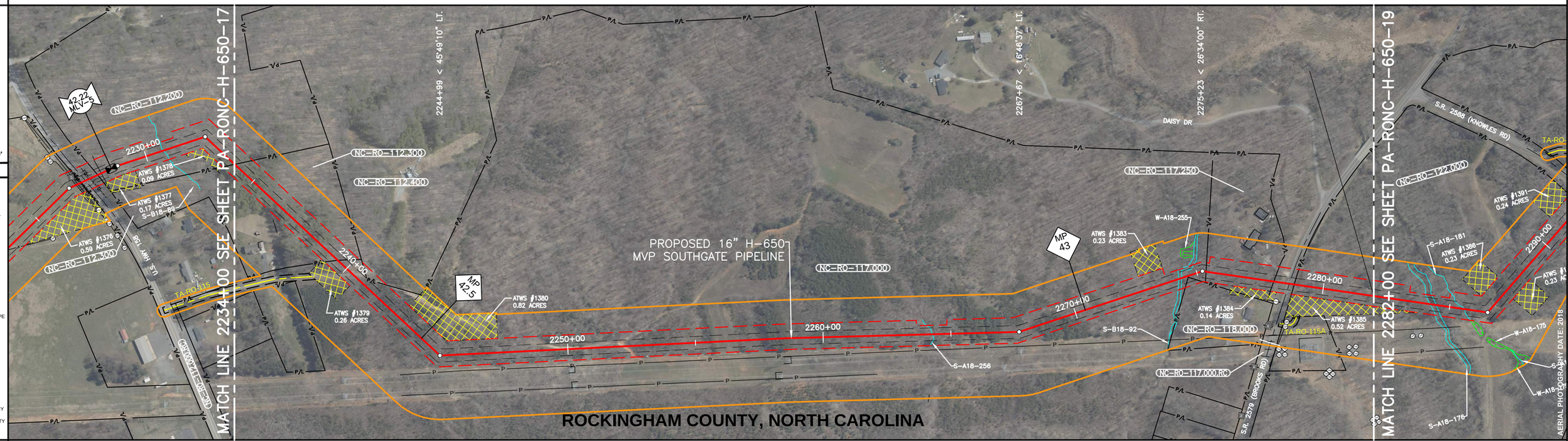
Mountain Valley PIPELINE LLC

PIPELINE ALIGNMENT

MVP SOUTHGATE PROJECT - H-650 LINE
ROCKINGHAM COUNTY, NORTH CAROLINA
STA. 2182+00 TO STA. 2234+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-RONC-H-650-17
SHEET: 45 OF 77	REV. P4
DATE OF PLOT: 11/5/2018 4:07:41 PM	

RIGHT-OF-WAY & OWNERSHIP DATA																	
		2234+00	NC-RO-112.200	2234+02	NC-RO-112.300	2239+53	NC-RO-117.000	2275+37	NC-RO-117.250	2278+05	NC-RO-117.000.RC	2278+86	NC-RO-122.000	2282+00			
			2 LF		551 LF		3584 LF		268 LF		81 LF		314 LF				
DESIGN	PIPE / COATING	2234+00	8					2277+95	9	2278+94	8	2282+00					
DESIGN	SLOPE DISTANCE																
DESIGN	CLASS LOCATION / HCA		2		1				2								
ENVIRONMENTAL	CONSTRUCTION EXCLUSION																
ENVIRONMENTAL	WETLAND / STREAM						S-A18-256 < 1 LF			S-B18-92 12 LF							
ENVIRONMENTAL	.																
ENVIRONMENTAL	.																



ISSUED FOR FERC

PLAN VIEW

0' 100' 200' 400'

LEGEND

- STUDY CORRIDOR
- PROPOSED PIPELINE
- NON-SURVEYED C/L
- EXISTING PIPELINE
- PERMANENT EASEMENT
- WORK SPACE LIMITS
- PERMANENT ACCESS RD
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- WELL - WATER
- POST - GATE/FENCE
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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

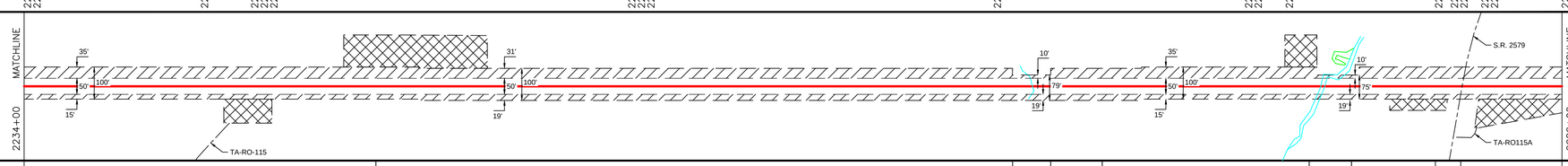
DRAWING NO.	DESCRIPTION

HORIZONTAL STATIONING

2234+00 MATCH LINE
2234+02 PROPERTY LINE
2239+53 PROPERTY LINE
2240+31 EDGE OF ROAD
2240+37 CL ACCESS RD (GRAVEL)
2240+43 EDGE OF ROAD
2252+06 EDGE OF ROAD
2252+15 CL ROAD (DIRT)
2252+30 EDGE OF ROAD
2264+28 CL STREAM (S-A18-256)
2274+26 BEGIN STREAM (S-B18-92)
2274+38 END STREAM (S-B18-92)
2275+37 PROPERTY LINE
2278+05 PROPERTY LINE
2278+54 EDGE OF ROAD
2278+66 CL S.R. 2579 (BROOKS ROAD) (ASPHALT)
2278+78 EDGE OF ROAD
2278+86 PROPERTY LINE
2282+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)



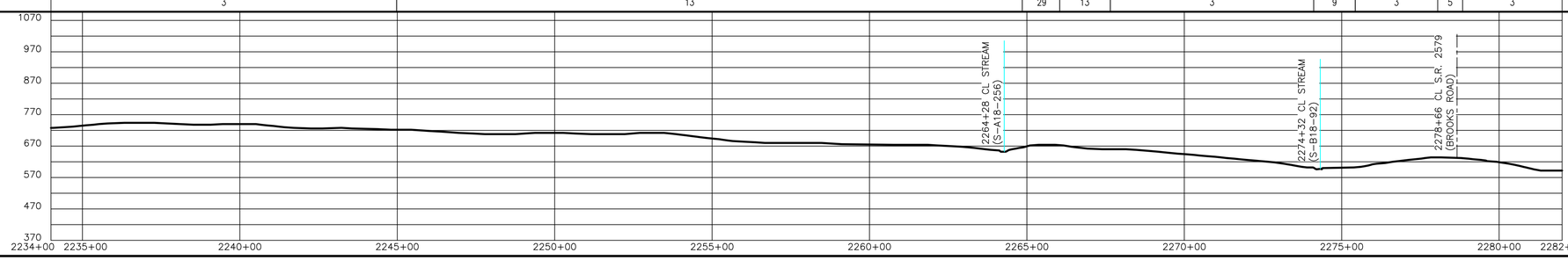
CONSTRUCTION METHOD

3 | 13 | 29 | 13 | 3 | 9 | 3 | 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 - HORIZONAL DIRECTIONAL DRILL (HDD)
13 - PARALLEL TO POWER LINES
17 - PARALLEL TO FORIEGN 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	06/13/18	ISSUED FOR REVIEW
P2	TRC	08/20/18	FERC DRAFT
P3	TRC	10/22/18	ISSUED FOR CLIENT REVIEW
P4	TRC	11/02/18	ISSUED FOR FERC

MATERIAL SUMMARY

MK NO.	QTY.	DESCRIPTION
8	470 LF	16"O.D. X 0.375"W.T. X-65, FBE
9	99 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
ROCKINGHAM COUNTY, NORTH CAROLINA
STA.2234+00 TO STA. 2282+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-RONC-H-650-18
SHEET: 46 OF 77	REV. P4
DATE OF PLOT:11/5/2018 4:07:57 PM	

RIGHT-OF-WAY & OWNERSHIP DATA

Station	Tract	Length
2282+00 – 2292+03	NC-RO-122.000	1003 LF
2292+03 – 2292+73	NC-RO-124.000.RC	70 LF
2292+73 – 2295+90	NC-RO-122.100	317 LF
2295+90 – 2308+36	NC-RO-126.000	1246 LF
2308+36 – 2317+29	NC-RO-133.200	893 LF
2317+29 – 2319+00	NC-RO-133.000	171 LF

DESIGN

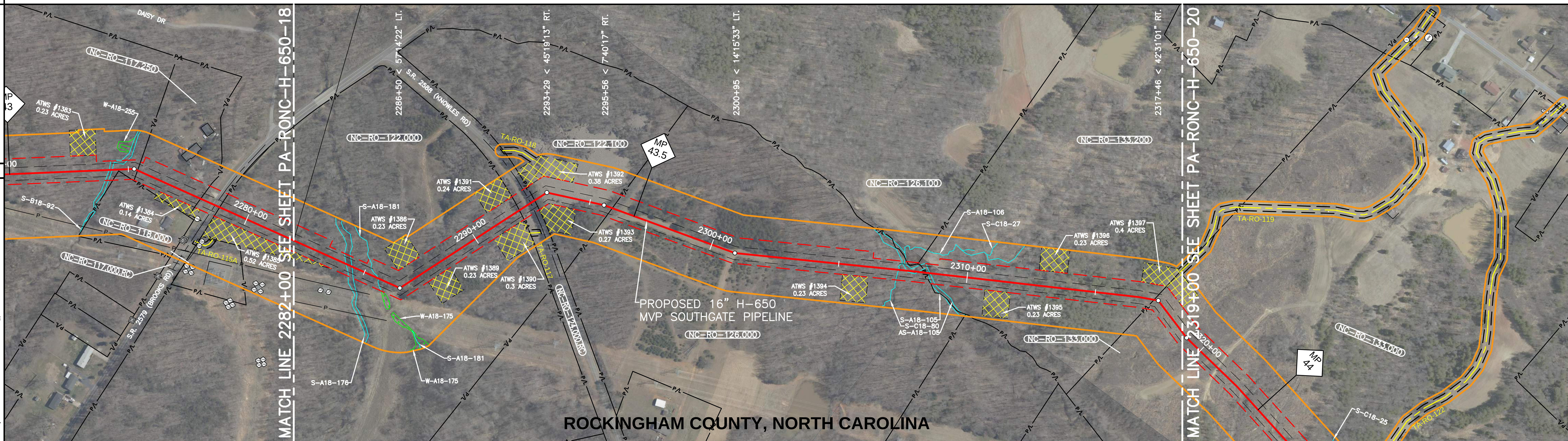
Item	Values
PIPE / COATING	2282+00 – 2291+92: 8; 2291+92 – 2292+82: 9; 2292+82 – 2319+00: 8
SLOPE DISTANCE	
CLASS LOCATION / HCA	2; 1

ENVIRONMENTAL

Item	Values
CONSTRUCTION EXCLUSION	
WETLAND / STREAM	S-A18-176 26 LF; S-A18-181 < 1 LF; S-C18-80 < 1 LF; S-A18-105 45 LF; S-A18-105 9 LF
.	
.	

0' 100' 200' 400'

PLAN VIEW



LEGEND

- STUDY CORRIDOR
- PROPOSED PIPELINE
- NON-SURVEYED C/L
- 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

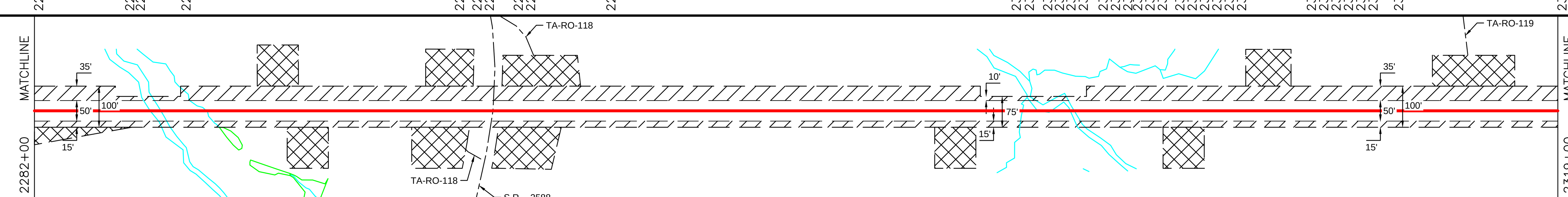
ISSUED FOR FERC

HORIZONTAL STATIONING

- 2282+00 MATCH LINE
- 2284+21 BEGIN STREAM (S-A18-176)
- 2284+47 END STREAM (S-A18-176)
- 2285+58 CL STREAM (S-A18-181)
- 2292+03 PROPERTY LINE
- 2292+46 EDGE OF ROAD
- 2292+55 CL S.R. 2588 (KNOWLES ROAD) (ASPHALT)
- 2292+65 EDGE OF ROAD
- 2292+73 PROPERTY LINE
- 2295+90 PROPERTY LINE
- 2307+33 CL STREAM (S-C18-80)
- 2307+65 BEGIN STREAM (S-A18-105)
- 2308+10 END STREAM (S-A18-105)
- 2308+36 PROPERTY LINE
- 2308+46 BEGIN STREAM (S-A18-105)
- 2308+55 END STREAM (S-A18-105)
- 2309+44 EDGE OF ROAD
- 2309+50 CL ROAD (DIRT)
- 2309+56 EDGE OF ROAD
- 2310+27 EDGE OF ROAD
- 2310+41 CL ROAD (DIRT)
- 2310+54 EDGE OF ROAD
- 2311+30 EDGE OF ROAD
- 2311+40 CL ROAD (DIRT)
- 2311+50 EDGE OF ROAD
- 2311+55 EDGE OF ROAD
- 2311+68 CL ROAD (DIRT)
- 2311+84 EDGE OF ROAD
- 2314+72 EDGE OF ROAD
- 2314+88 CL ROAD (DIRT)
- 2315+19 EDGE OF ROAD
- 2315+35 EDGE OF ROAD
- 2315+49 CL ROAD (DIRT)
- 2315+64 EDGE OF ROAD
- 2317+29 PROPERTY LINE
- 2319+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)



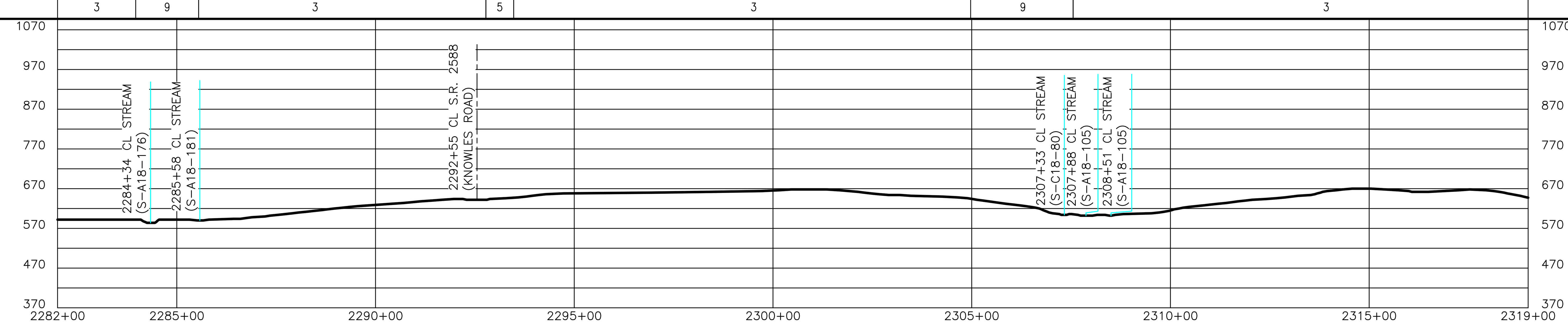
CONSTRUCTION METHOD

Station range	Method
2282+00 – 2284+21	3
2284+21 – 2285+58	9
2285+58 – 2292+46	3
2292+46 – 2292+65	5
2292+65 – 2307+33	3
2307+33 – 2308+55	9
2308+55 – 2319+00	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 - HORIZONAL DIRECTIONAL DRILL (HDD)
- 13 - PARALLEL TO POWER LINES
- 17 - PARALLEL TO FORIEGN 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	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	11/02/18	ISSUED FOR FERC

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
8	3610 LF	16"O.D. X 0.375"W.T., X-65, FBE
9	90 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
.	.	.

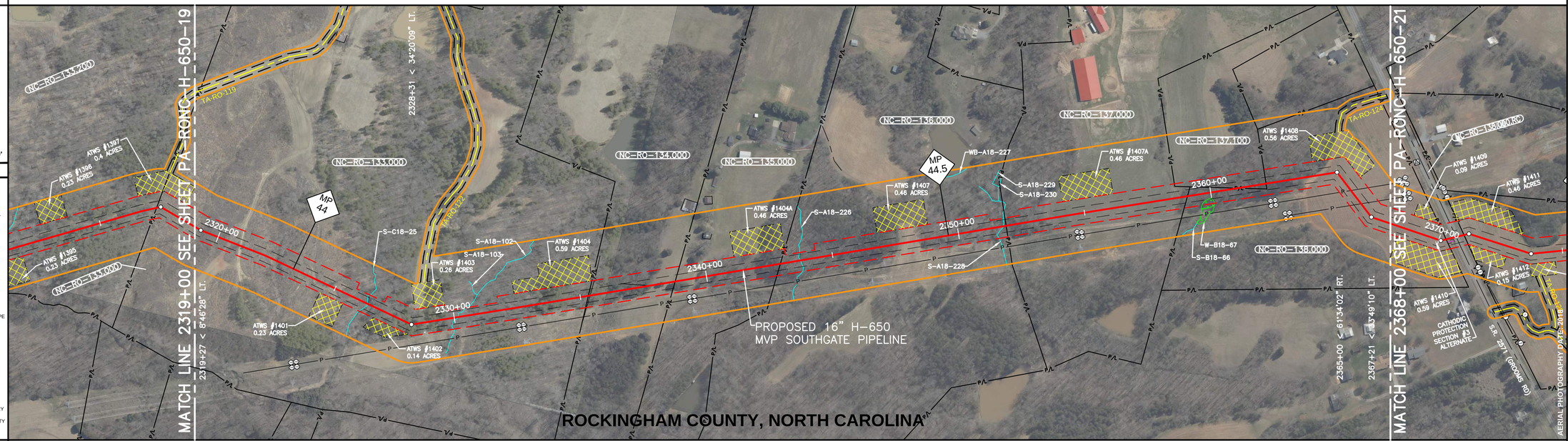
TRC Results you can rely on

Mountain Valley PIPELINE LLC

PIPELINE ALIGNMENT
MVP SOUTHGATE PROJECT - H-650 LINE ROCKINGHAM COUNTY, NORTH CAROLINA STA. 2282+00 TO STA. 2319+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-RONC-H-650-19	
SHEET: 47 OF 77	REV. P4
DATE OF PLOT: 11/5/2018 4:08:12 PM	

RIGHT-OF-WAY & OWNERSHIP DATA	2319+00 – 2335+32	2335+32 – 2338+76	2338+76 – 2342+93	2342+93 – 2351+89	2351+89 – 2359+08	2359+08 – 2361+08	2361+08 – 2362+19	2362+19 – 2368+00
	NC-RO-133.000 1632 LF	NC-RO-134.000 344 LF	NC-RO-135.000 417 LF	NC-RO-136.000 896 LF	NC-RO-137.000 719 LF	NC-RO-138.000 200 LF	NC-RO-137.100 111 LF	NC-RO-138.000 581 LF
DESIGN – PIPE / COATING	8							
DESIGN – SLOPE DISTANCE								
DESIGN – CLASS LOCATION / HCA	1			2				
ENVIRONMENTAL – CONSTRUCTION EXCLUSION								
ENVIRONMENTAL – WETLAND / STREAM	S-C18-25 < 1 LF; S-A18-102 < 1 LF			S-A18-226 < 1 LF	S-A18-228 < 1 LF			
ENVIRONMENTAL – .								
ENVIRONMENTAL – .								



PLAN VIEW

0' 100' 200' 400'

LEGEND

- STUDY CORRIDOR
- PROPOSED PIPELINE
- NON-SURVEYED C/L
- 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

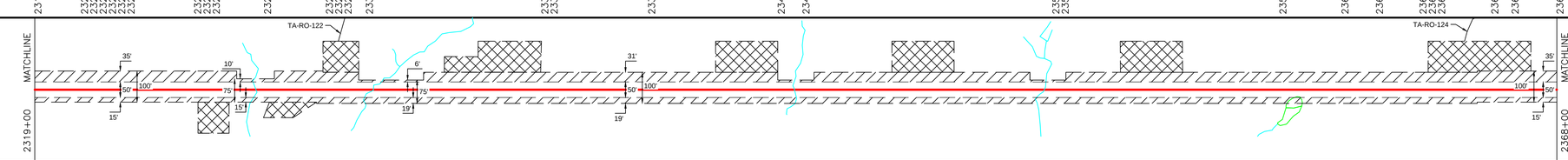
DRAWING NO.	DESCRIPTION

HORIZONTAL STATIONING

2319+00 MATCH LINE
2320+50 EDGE OF ROAD
2320+56 CL ROAD (DIRT)
2320+61 EDGE OF ROAD
2320+91 CL ROAD (DIRT)
2320+98 EDGE OF ROAD
2321+03
2324+14 EDGE OF ROAD
2324+18 CL ROAD (DIRT)
2324+23 EDGE OF ROAD
2326+39 CL STREAM (S-C18-25)
2328+88 EDGE OF ROAD
2328+94 CL ACCESS RD
2329+00 EDGE OF ROAD
2330+17 CL STREAM (S-A18-102)
2335+32 PROPERTY LINE
2335+38 FENCE, BARBED WIRE
2338+76 PROPERTY LINE
2342+93 PROPERTY LINE
2343+73 CL STREAM (S-A18-226)
2351+77 CL STREAM (S-A18-228)
2351+89 PROPERTY LINE
2359+08 PROPERTY LINE
2361+08 PROPERTY LINE
2362+19 PROPERTY LINE
2364+18 EDGE OF ROAD
2364+27 CL ACCESS RD (GRASS)
2364+35 EDGE OF ROAD
2365+90 OVERHEAD TRANSMISSION LINE
2366+56 OVERHEAD TRANSMISSION LINE
2368+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)

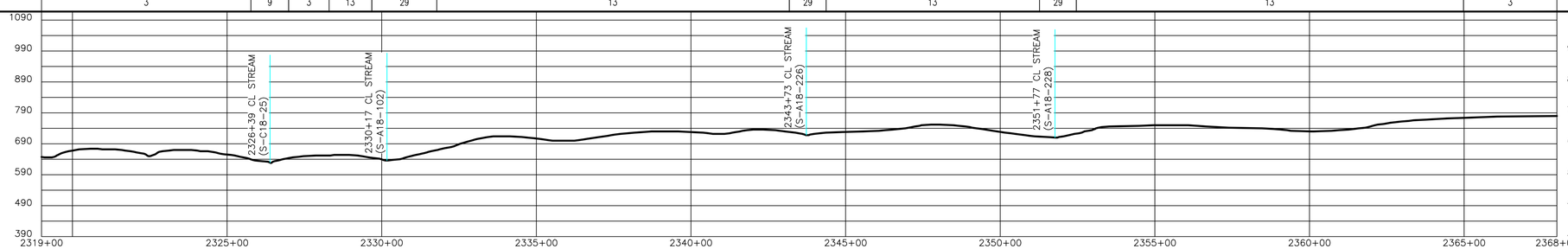


CONSTRUCTION METHOD

3 | 9 | 3 | 13 | 29 | 13 | 29 | 13 | 29 | 13 | 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 - HORIZONAL DIRECTIONAL DRILL (HDD)
- 13 - PARALLEL TO POWER LINES
- 17 - PARALLEL TO FORIEGN 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	11/02/18	ISSUED FOR FERC

MATERIAL SUMMARY

MK NO.	QTY.	DESCRIPTION
9	4400.1 LF	16"O.D. X 0.3750"W.T., X-65, TBE

ISSUED FOR FERC

APPROVED FOR CONSTRUCTION | APPROVED FOR BIDDING | APPROVED FOR FERC

REV.	BY	DATE
-	-	-

Mountain Valley PIPELINE LLC

PIPELINE ALIGNMENT

MVP SOUTHGATE PROJECT - H-650 LINE
ROCKINGHAM COUNTY, NORTH CAROLINA
STA. 2319+00 TO STA. 2368+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-RONC-H-650-20
SHEET: 48 OF 77	REV. P4
DATE OF PLOT: 11/5/2018 4:08:27 PM	

RIGHT-OF-WAY & OWNERSHIP DATA	NC-RO-138.000	NC-RO-138.000.RC	NC-RO-139.000	NC-RO-140.000	NC-RO-142.000
	2368+00 – 2370+29: 229 LF	2370+29 – 2371+02: 73 LF	2371+02 – 2393+33: 2231 LF	2393+33 – 2412+94: 1961 LF	2412+94 – 2421+00: 806 LF

DESIGN		
PIPE / COATING	2368+00 – 2370+18: 8	2370+18 – 2371+10: 9	2371+10 – 2421+00: 8
SLOPE DISTANCE		
CLASS LOCATION / HCA	2	1

ENVIRONMENTAL	
CONSTRUCTION EXCLUSION	
WETLAND / STREAM	S-B18-71 < 1 LF; AS-B18-71 < 1 LF; S-B18-68 < 1 LF
.	
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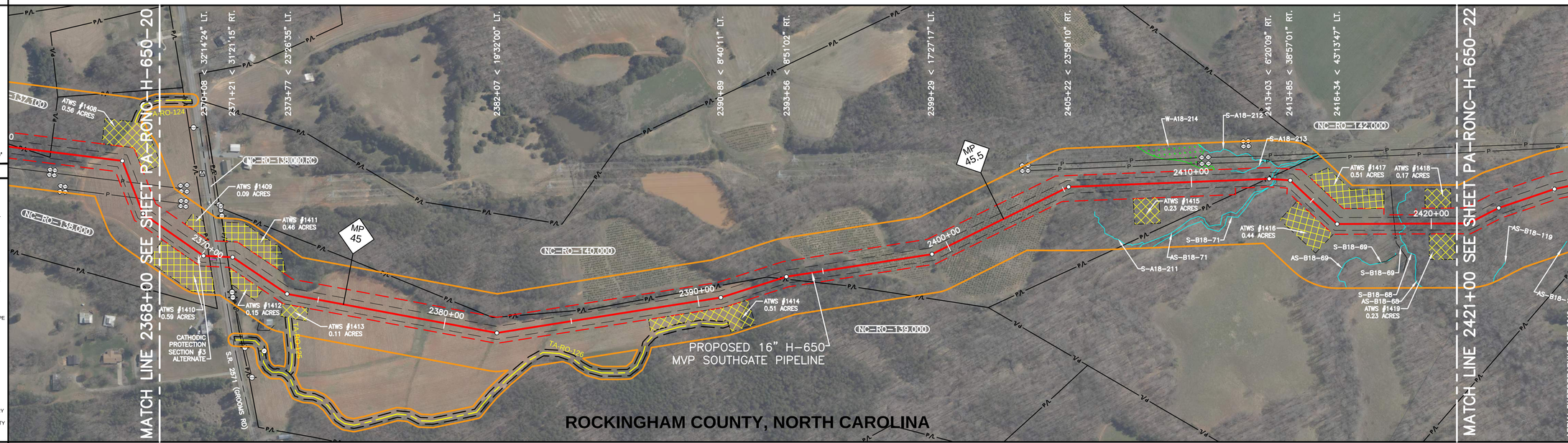


PLAN VIEW

0' 100' 200' 400'

LEGEND

- STUDY CORRIDOR
- PROPOSED PIPELINE
- NON-SURVEYED C/L
- 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

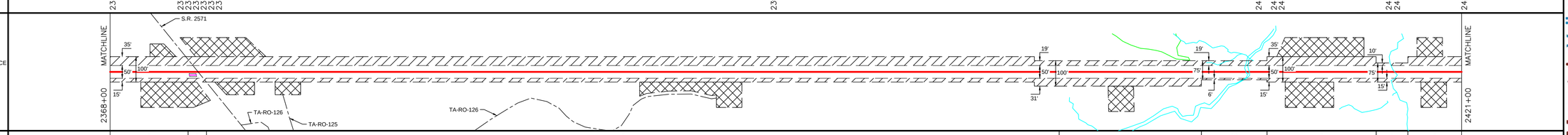
DRAWING NO.	DESCRIPTION

HORIZONTAL STATIONING

2368+00 MATCH LINE
2370+29 PROPERTY LINE
2370+60 EDGE OF ROAD
2370+70 CL S.R. 2571 (GROOMS ROAD)(ASPHALT)
2370+80 EDGE OF ROAD
2371+01 OVERHEAD POWER LINE
2371+02 PROPERTY LINE
2393+33 PROPERTY LINE
2412+94 PROPERTY LINE
2413+12 CL STREAM (S-B18-71)
2413+26 CL STREAM (AS-B18-71)
2418+56 FENCE, 4' BARBED WIRE
2418+89 CL STREAM (S-B18-68)
2421+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)



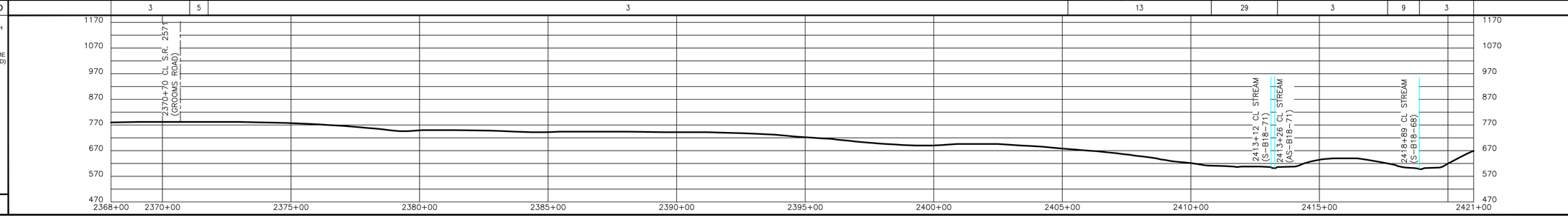
CONSTRUCTION METHOD

3 | 5 | 3 | 13 | 29 | 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 - HORIZONAL DIRECTIONAL DRILL (HDD)
- 13 - PARALLEL TO POWER LINES
- 17 - PARALLEL TO FORIEGN 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

TRC Results you can rely on

REVISIONS

REV.	BY	DATE	DESCRIPTION
P1	TRC	06/13/18	ISSUED FOR REVIEW
P2	TRC	08/20/18	FERC DRAFT
P3	TRC	10/22/18	ISSUED FOR CLIENT REVIEW
P4	TRC	11/06/18	ISSUED FOR FERC

MATERIAL SUMMARY

AERIAL PHOTOGRAPHY DATE: 2018

MK NO.	QTY	DESCRIPTION
8	2208 LF	16"O.D. X 0.375"W.T. X-65, FBE
9	92 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	

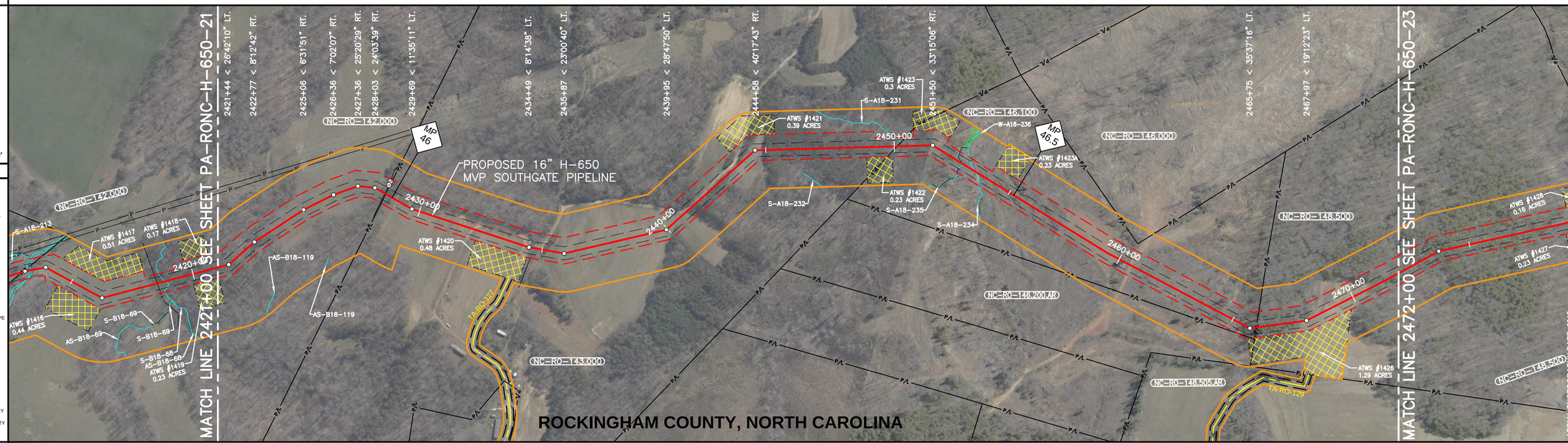
Mountain Valley PIPELINE LLC

PIPELINE ALIGNMENT

MVP SOUTHGATE PROJECT - H-650 LINE
ROCKINGHAM COUNTY, NORTH CAROLINA
STA. 2368+00 TO STA. 2421+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-RONC-H-650-21
SHEET: 49 OF 77	REV. P4
DATE OF PLOT:11/5/2018 4:08:43 PM	

RIGHT-OF-WAY & OWNERSHIP DATA	2421+00	NC-RO-142.000 752 LF	2428+52	NC-RO-143.000 2160 LF	2450+12	NC-RO-146.100.AR 1588 LF	2466+00	NC-RO-148.500 600 LF	2472+00
DESIGN – PIPE / COATING	2421+00	8							2472+00
DESIGN – SLOPE DISTANCE									
DESIGN – CLASS LOCATION / HCA		1							
ENVIRONMENTAL – CONSTRUCTION EXCLUSION									
ENVIRONMENTAL – WETLAND / STREAM					S-A18-235 < 1 LF	S-A18-234 < 1 LF			
ENVIRONMENTAL – .									
ENVIRONMENTAL – .									



ISSUED FOR FERC

PLAN VIEW

0' 100' 200' 400'

LEGEND

- STUDY CORRIDOR
- PROPOSED PIPELINE
- NON-SURVEYED C/L
- EXISTING PIPELINE
- PERMANENT EASEMENT
- WORK SPACE LIMITS
- PERMANENT ACCESS RD
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- COUNTY LINE
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- ROAD RIGHT-OF-WAY
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- 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

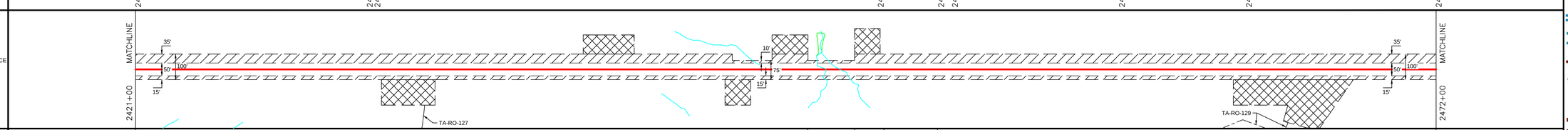
DRAWING NO.	DESCRIPTION

HORIZONTAL STATIONING

2421+00 MATCH LINE
2428+47 FENCE, 4' BARBED WIRE
2428+52 PROPERTY LINE
2450+12 PROPERTY LINE
2452+88 CL STREAM (S-A18-235)
2453+42 CL STREAM (S-A18-234)
2460+57 CL ROAD (GRASS)
2466+00 PROPERTY LINE
2472+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)



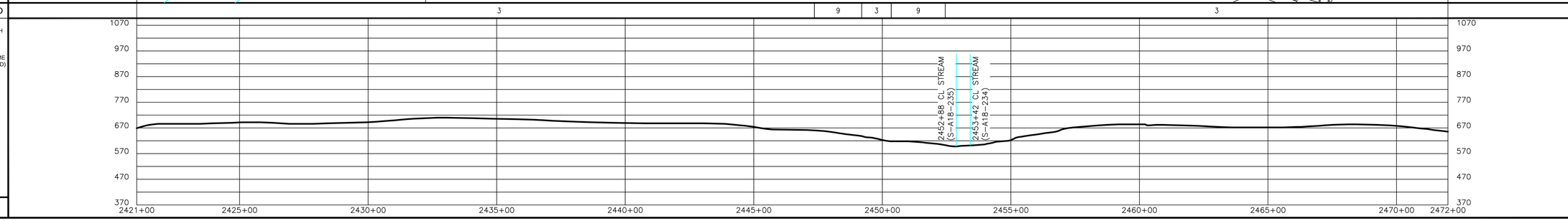
CONSTRUCTION METHOD

3 | 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 - HORIZONAL DIRECTIONAL DRILL (HDD)
13 - PARALLEL TO POWER LINES
17 - PARALLEL TO FORIEGN 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	06/13/18	ISSUED FOR REVIEW
P2	TRC	08/20/18	FERC DRAFT
P3	TRC	10/22/18	ISSUED FOR CLIENT REVIEW
P4	TRC	11/06/18	ISSUED FOR FERC

MATERIAL SUMMARY

MK NO.	QTY.	DESCRIPTION
9	5100 LF	16"O.D. X 0.375"W.T. X-65, TBE

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

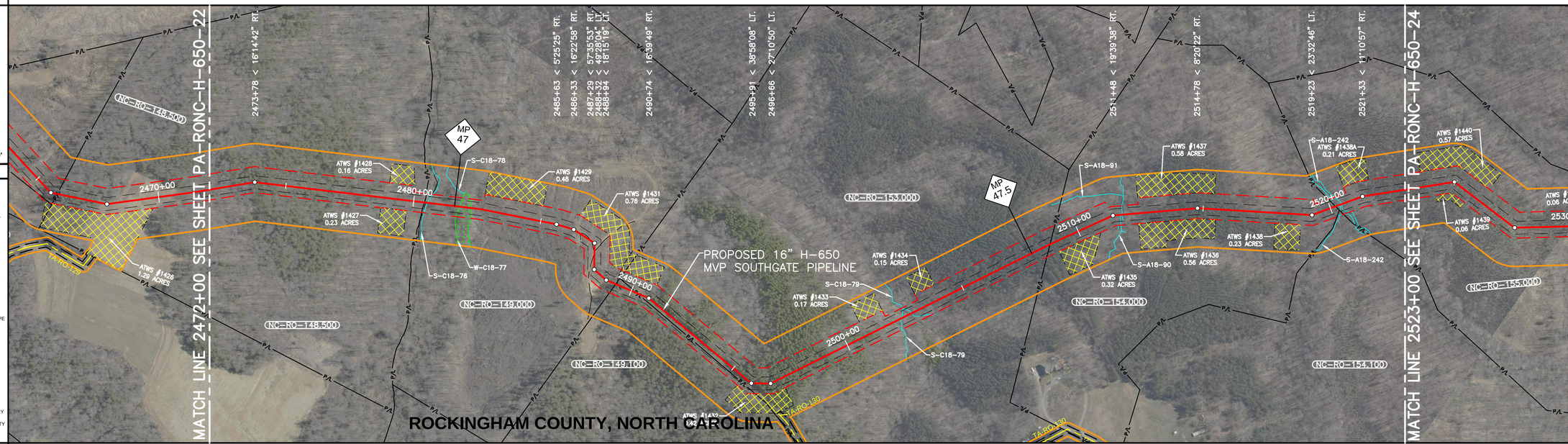
Mountain Valley PIPELINE LLC

PIPELINE ALIGNMENT

MVP SOUTHGATE PROJECT - H-650 LINE
ROCKINGHAM COUNTY, NORTH CAROLINA
STA. 2421+00 TO STA. 2472+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-RONC-H-650-22
SHEET: 50 OF 77	REV. P4
DATE OF PLOT:11/5/2018 4:08:58 PM	

RIGHT-OF-WAY & OWNERSHIP DATA																							
	2472+00	NC-RO-148.500		2480+42	NC-RO-149.000		2489+34	NC-RO-149.100		2490+25	NC-RO-153.000				2508+79	NC-RO-154.000			2520+21	NC-RO-155.000		2523+00
		842 LF			892 LF			91 LF			1854 LF					1142 LF				279 LF		
DESIGN – PIPE / COATING	2472+00	8																				2523+00
DESIGN – SLOPE DISTANCE																						
DESIGN – CLASS LOCATION / HCA		1																				
ENVIRONMENTAL – CONSTRUCTION EXCLUSION																						
ENVIRONMENTAL – WETLAND / STREAM					S-C18-76 19 LF	W-C18-77 46 LF							S-C18-79 47 LF			S-A18-90 < 1 LF			S-A18-242 19 LF			
ENVIRONMENTAL – .																						
ENVIRONMENTAL – .																						



PLAN VIEW

0' 100' 200' 400'

LEGEND

- STUDY CORRIDOR
- PROPOSED PIPELINE
- NON-SURVEYED C/L
- 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

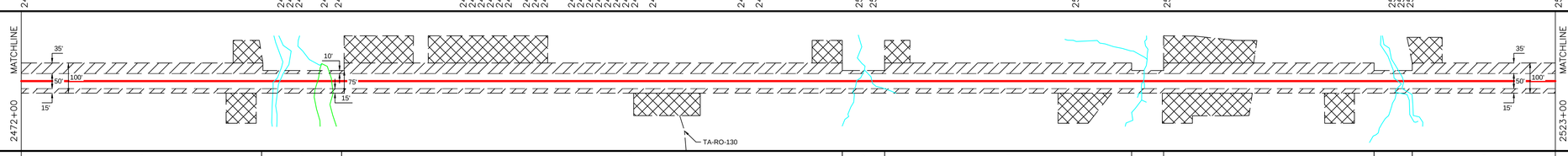
DRAWING NO.	DESCRIPTION

HORIZONTAL STATIONING

2472+00 MATCH LINE
2480+35 BEGIN STREAM (S-C18-76)
2480+42 PROPERTY LINE
2480+54 END STREAM (S-C18-76)
2481+80 BEGIN WETLAND (W-C18-77)
2482+26 END WETLAND (W-C18-77)
2486+59 EDGE OF ROAD
2486+65 CL ROAD (GRASS)
2486+70 EDGE OF ROAD
2487+03 EDGE OF ROAD
2487+14 CL ROAD (GRASS)
2487+20 EDGE OF ROAD
2487+57 EDGE OF ROAD
2487+66 CL ROAD (GRASS)
2487+79 EDGE OF ROAD
2489+34 PROPERTY LINE
2489+38 EDGE OF ROAD
2489+45 CL ROAD (GRASS)
2489+50 EDGE OF ROAD
2489+55 EDGE OF ROAD
2490+25 PROPERTY LINE
2490+32 CL FARM RD (DIRT)
2490+49 CL FARM RD (DIRT)
2491+94 EDGE OF ROAD
2495+83 EDGE OF ROAD
2495+92 EDGE OF ROAD
2502+32 BEGIN STREAM (S-C18-79)
2502+79 END STREAM (S-C18-79)
2508+79 PROPERTY LINE
2511+83 CL STREAM (S-A18-90)
2520+21 PROPERTY LINE
2520+28 BEGIN STREAM (S-A18-242)
2520+47 END STREAM (S-A18-242)
2523+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)

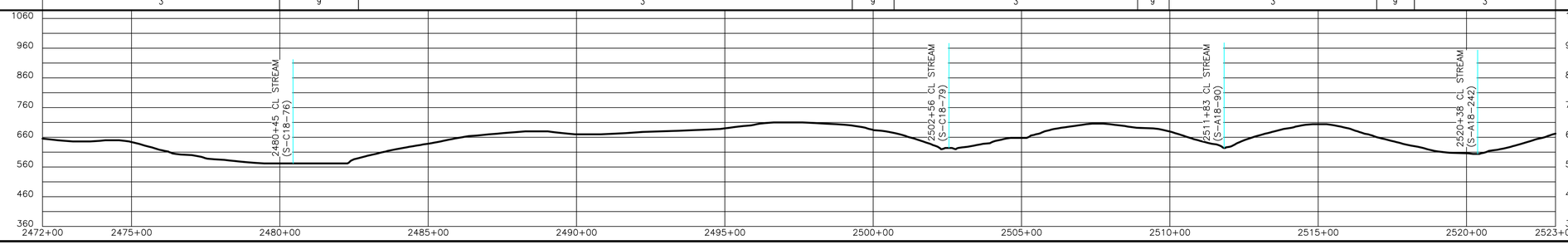


CONSTRUCTION METHOD

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 - HORIZONAL DIRECTIONAL DRILL (HDD)
13 - PARALLEL TO POWER LINES
17 - PARALLEL TO FORIEGN 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

3 | 9 | 3 | 9 | 3 | 9 | 3 | 9 | 3

PROFILE



TRC Results you can rely on

ISSUED FOR FERC

REVISIONS

REV.	BY	DATE	DESCRIPTION
P1	TRC	06/13/18	ISSUED FOR REVIEW
P2	TRC	08/20/18	FERC DRAFT
P3	TRC	10/22/18	ISSUED FOR CLIENT REVIEW
P4	TRC	11/06/18	ISSUED FOR FERC

MATERIAL SUMMARY

MK NO.	QTY.	DESCRIPTION
9	5100 LF	16"O.D. X 0.3125"W.T., X-65, TBE

AERIAL PHOTOGRAPHY DATE: 2018

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

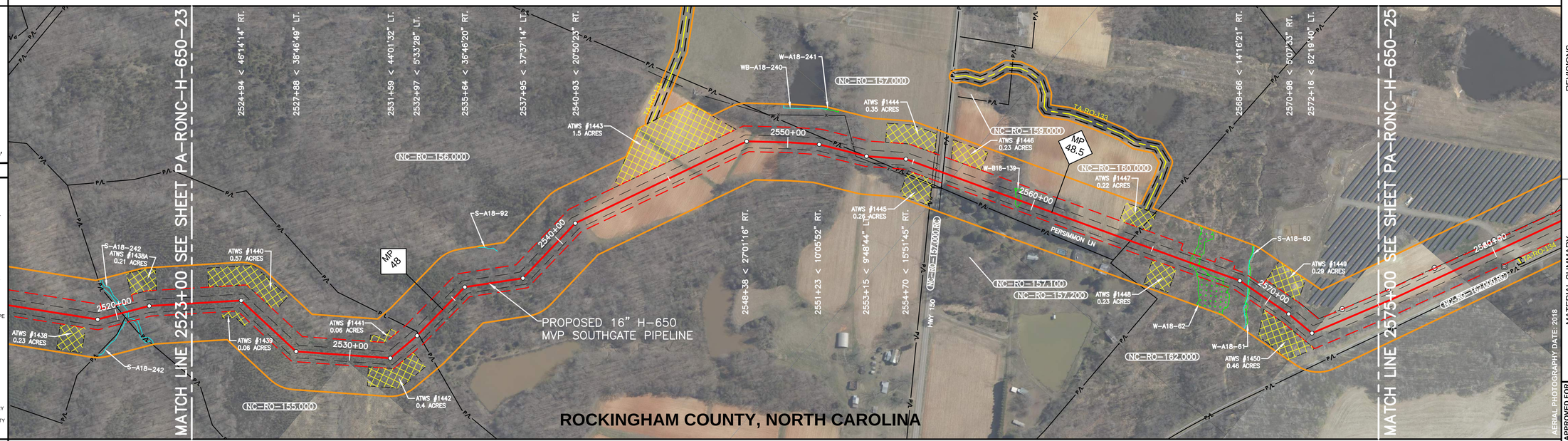
Mountain Valley PIPELINE LLC

PIPELINE ALIGNMENT

MVP SOUTHGATE PROJECT - H-650 LINE
ROCKINGHAM COUNTY, NORTH CAROLINA
STA. 2472+00 TO STA. 2523+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-RONC-H-650-23
SHEET: 51 OF 77	REV. P4
DATE OF PLOT:11/5/2018 4:09:22 PM	

RIGHT-OF-WAY & OWNERSHIP DATA																				
	2523+00	NC-RO-155.000	2533+04	NC-RO-156.000	2552+67	NC-RO-157.000	NC-RO-157.000RC HWY 150	2556+25	NC-RO-160.000	2564+08	NC-RO-162.000								2575+00	
		1004 LF		1963 LF		358 LF			783 LF		1092 LF									
DESIGN: PIPE / COATING	2523+00	8					2555+73	9	2556+63		8								2575+00	
DESIGN: SLOPE DISTANCE																				
DESIGN: CLASS LOCATION / HCA		1									2							1		
ENVIRONMENTAL: CONSTRUCTION EXCLUSION																				
ENVIRONMENTAL: WETLAND / STREAM												W-B18-139 25 LF		W-A18-62 39 LF	W-A18-61 < 1 LF	S-A18-60 < 1 LF				
ENVIRONMENTAL: .																				
ENVIRONMENTAL: .																				



PLAN VIEW

LEGEND

- STUDY CORRIDOR
- PROPOSED PIPELINE
- NON-SURVEYED C/L
- 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
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- MH - SANITARY/WATER
- MAINLINE VALVE
- HDD ENTRY/EXIT
- ADDITIONAL TEMPORARY WORK SPACE(ATWS)
- ABOVE GROUND FACILITY
- CONTRACTOR YARD

REFERENCE DRAWINGS

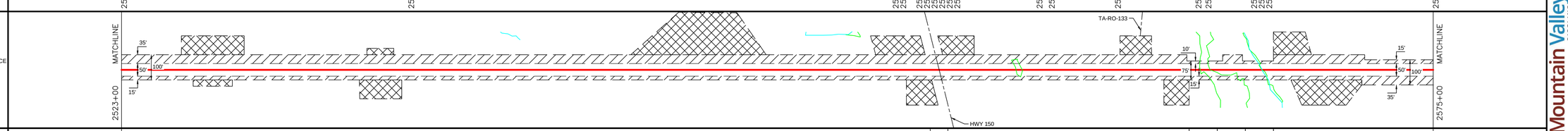
DRAWING NO.	DESCRIPTION

HORIZONTAL STATIONING

2523+00 MATCH LINE
2533+04 PROPERTY LINE
2552+67 PROPERTY LINE
2552+70 FENCE, 4' HOG WIRE
2555+85 OVERHEAD POWER LINE
2555+97 FENCE, 4' HOG WIRE
2556+14 EDGE OF ROAD
2556+25 C/L HWY 150 (ASPHALT)
2556+25 PROPERTY LINE
2556+36 EDGE OF ROAD
2559+29 BEGIN WETLAND (W-B18-139)
2559+54 END WETLAND (W-B18-139)
2564+08 PROPERTY LINE
2566+60 BEGIN WETLAND (W-A18-62)
2566+99 END WETLAND (W-A18-62)
2569+04 BEGIN WETLAND (W-A18-61)
2569+04 END WETLAND (W-A18-61)
2569+05 CL STREAM (S-A18-60)
2575+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)



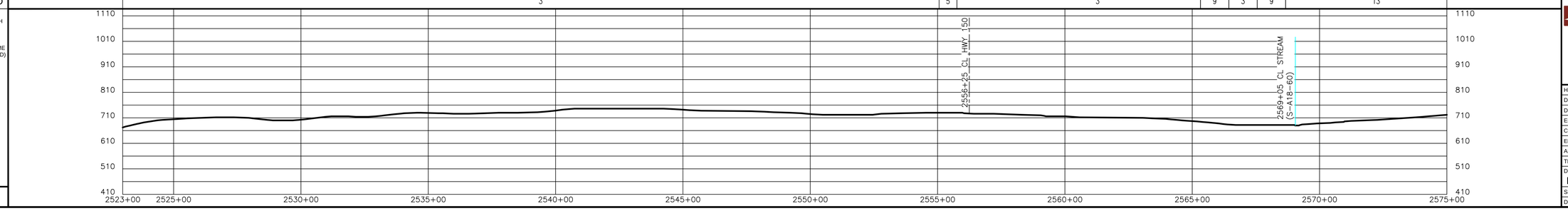
CONSTRUCTION METHOD

		3								5	3			9	3	9	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 - HORIZONAL DIRECTIONAL DRILL (HDD)
13 - PARALLEL TO POWER LINES
17 - PARALLEL TO FORIEGN 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

TRC Results you can rely on

REVISIONS

REV.	BY	DATE	DESCRIPTION
P1	TRC	06/13/18	ISSUED FOR REVIEW
P2	TRC	08/20/18	FERC DRAFT
P3	TRC	10/22/18	ISSUED FOR CLIENT REVIEW
P4	TRC	11/06/18	ISSUED FOR FERC

AERIAL PHOTOGRAPHY DATE: 2018

MATERIAL SUMMARY

MK NO.	QTY.	DESCRIPTION
1	5110 LF	16"O.D. X 0.375"W.T. X-65, FBE
9	90 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	

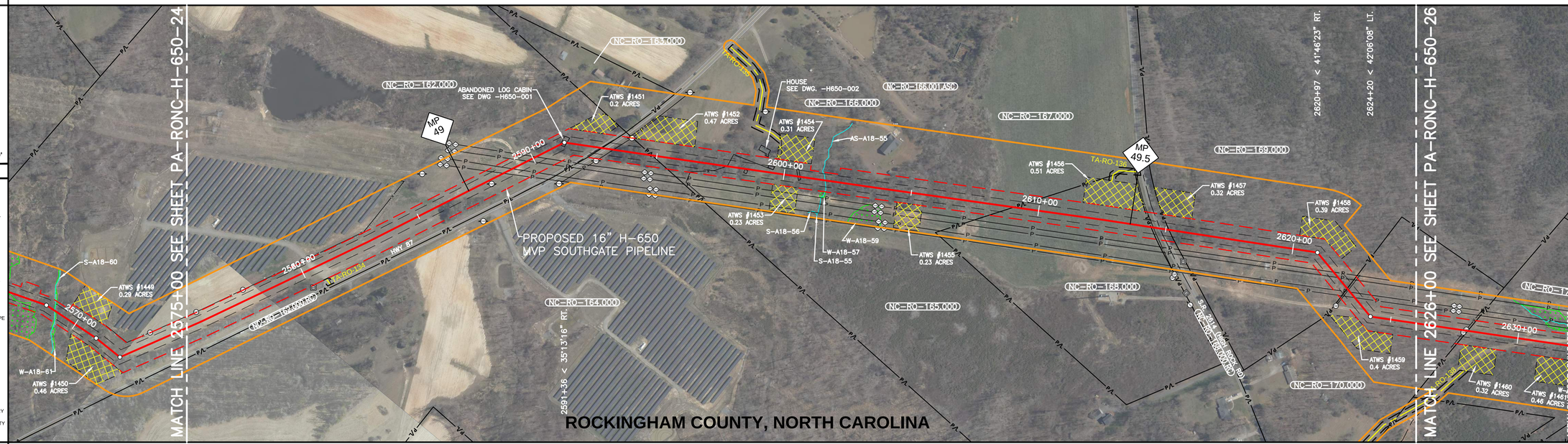
Mountain Valley PIPELINE LLC

PIPELINE ALIGNMENT

MVP SOUTHGATE PROJECT - H-650 LINE
ROCKINGHAM COUNTY, NORTH CAROLINA
STA. 2523+00 TO STA. 2575+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-RONC-H-650-24
SHEET: 52 OF 77	REV. P4
DATE OF PLOT:11/5/2018 4:09:33 PM	

RIGHT-OF-WAY & OWNERSHIP DATA	2575+00	NC-RO-162.000 1785 LF	2592+85	NC-RO-162.000RC HWY. 87	NC-RO-164.000 196 LF	2594+81	NC-RO-165.000 926 LF	2604+07	NC-RO-166.000 128 LF	2605+35	NC-RO-167.000 368 LF	2609+03	NC-RO-168.000 539 LF	2614+42	NC-RO-168.000.RC 71 LF	2615+13	NC-RO-169.000 766 LF	2622+79	NC-RO-170.000 321 LF	2626+00
DESIGN – PIPE / COATING	2575+00	8	2592+18	9	2593+30		8							2614+18	9	2615+21	8			2626+00
DESIGN – SLOPE DISTANCE																				
DESIGN – CLASS LOCATION / HCA		1		2							1									
ENVIRONMENTAL – CONSTRUCTION EXCLUSION																				
ENVIRONMENTAL – WETLAND / STREAM					S-A18-55 < 1 LF															
ENVIRONMENTAL – .																				
ENVIRONMENTAL – .																				



PLAN VIEW

0' 100' 200' 400'

LEGEND

- STUDY CORRIDOR
- PROPOSED PIPELINE
- NON-SURVEYED C/L
- 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
RSS-H650-001	RESIDENTIAL SITE SPECIFIC
RSS-H650-002	RESIDENTIAL SITE SPECIFIC

HORIZONTAL STATIONING

2575+00 MATCH LINE
2588+71 OVERHEAD TRANSMISSION LINE, BEGIN PARALLEL
2589+10 OVERHEAD TRANSMISSION LINE
2589+76 OVERHEAD TRANSMISSION LINE
2590+13 OVERHEAD TRANSMISSION LINE
2592+62 EDGE OF ROAD
2592+80 CL HWY 87 (ASPHALT)
2592+86 PROPERTY LINE
2592+97 EDGE OF ROAD
2593+30 OVERHEAD POWER LINE
2594+81 PROPERTY LINE
2597+75 FENCE, ELECTRIC
2601+61 CL STREAM (S-A18-55)
2604+07 PROPERTY LINE
2605+35 PROPERTY LINE
2609+03 PROPERTY LINE
2614+42 PROPERTY LINE
2614+51 FENCE, 4' ELECTRIC
2614+65 EDGE OF ROAD
2614+78 CL S.R. 2614 (HIGH ROCK ROAD)(ASPHALT)
2614+91 EDGE OF ROAD
2615+13 PROPERTY LINE
2621+96 OVERHEAD POWER LINE
2622+23 OVERHEAD POWER LINE
2622+78 PROPERTY LINE
2622+86 FENCE, 5' HOG & BARBED WIRE
2622+97 OVERHEAD POWER LINE
2623+25 OVERHEAD POWER LINE
2626+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)

MATCHLINE 2575+00 — MATCHLINE 2626+00

15' 50' 100' 35' TA-RO-134 HWY 87 31' 50' 100' 19' TA-RO-135 6' 75' 19' TA-RO-136 19' 50' 31' S.R. 2614

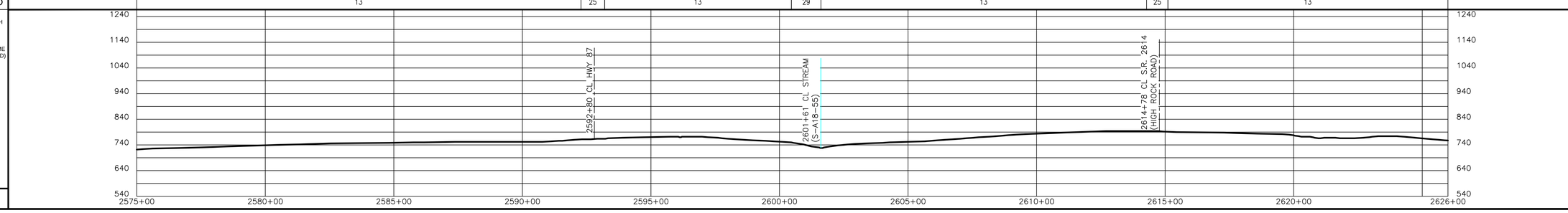
CONSTRUCTION METHOD

13 | 25 | 13 | 29 | 13 | 25 | 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 - HORIZONAL DIRECTIONAL DRILL (HDD)
- 13 - PARALLEL TO POWER LINES
- 17 - PARALLEL TO FORIEGN 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	06/13/18	ISSUED FOR REVIEW
P2	TRC	08/20/18	FERC DRAFT
P3	TRC	10/22/18	ISSUED FOR CLIENT REVIEW
P4	TRC	11/06/18	ISSUED FOR FERC

MATERIAL SUMMARY

MK NO.	QTY.	DESCRIPTION
8	4485 LF	16"O.D. X 0.375"W.T. X-65, FBE
9	215 LF	16"O.D. X 0.375"W.T. X-65, FBE & POWERCRETE

ISSUED FOR FERC

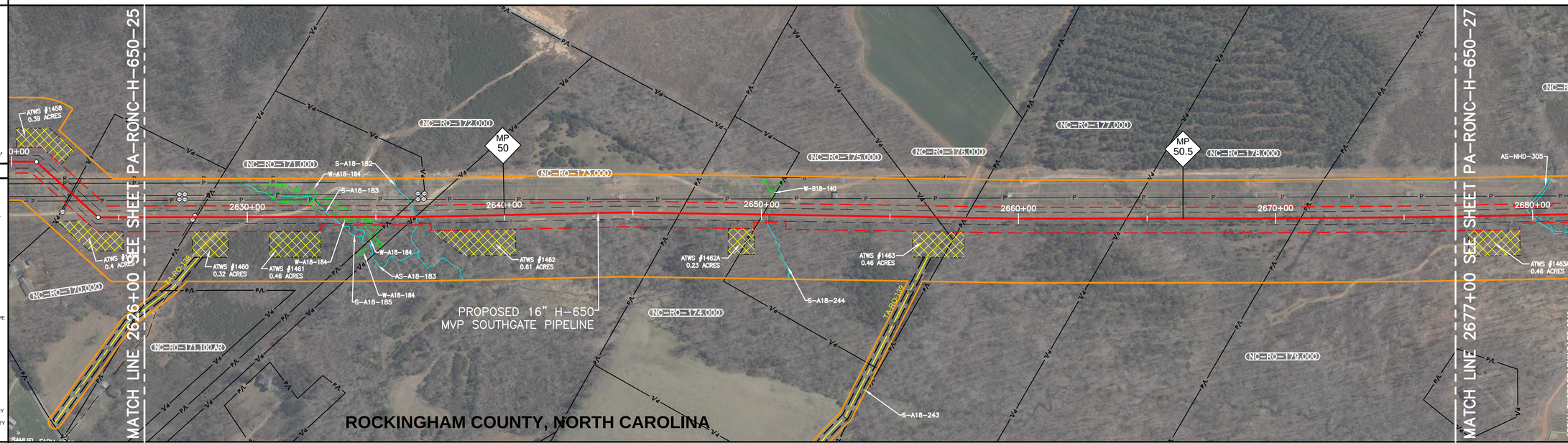
APPROVED FOR CONSTRUCTION — REV. | BY | DATE
APPROVED FOR BIDDING — REV. | BY | DATE
APPROVED FOR FERC — REV. | BY | DATE

Mountain Valley PIPELINE LLC

PIPELINE ALIGNMENT
MVP SOUTHGATE PROJECT - H-650 LINE
ROCKINGHAM COUNTY, NORTH CAROLINA
STA. 2575+00 TO STA. 2626+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-RONC-H-650-25
SHEET: 53 OF 77 REV. P4
DATE OF PLOT: 11/5/2018 4:09:53 PM

RIGHT-OF-WAY & OWNERSHIP DATA																							
		2626+00	NC-RO-170.000	2628+03	NC-RO-171.000	2635+76	NC-RO-172.000	2636+54	NC-RO-173.000	2646+83	NC-RO-174.000	2650+06	NC-RO-175.000	2656+80	NC-RO-176.000	2657+94	NC-RO-177.000	2664+20	NC-RO-178.000	2670+98	NC-RO-179.000	2677+00	
			203 LF		773 LF		78 LF		1029 LF		323 LF		674 LF		114 LF		626 LF		678 LF		602 LF		
DESIGN	PIPE / COATING	2626+00	8																			2677+00	
	SLOPE DISTANCE																						
	CLASS LOCATION / HCA		1																				
ENVIRONMENTAL	CONSTRUCTION EXCLUSION																						
	WETLAND / STREAM					S-A18-183 < 1 LF	W-A18-184 57 LF	AS-A18-182 < 1 LF					S-A18-244 < 1 LF										
	.																						
	.																						



PLAN VIEW

0' 100' 200' 400'

LEGEND

- STUDY CORRIDOR
- PROPOSED PIPELINE
- NON-SURVEYED C/L
- EXISTING PIPELINE
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- PERMANENT ACCESS RD
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- C/L ROAD
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- DELINEATED STREAM
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- MH - SANITARY/WATER
- MAINLINE VALVE
- HDD ENTRY/EXIT
- ADDITIONAL TEMPORARY WORK SPACE(ATWS)
- ABOVE GROUND FACILITY
- CONTRACTOR YARD

REFERENCE DRAWINGS

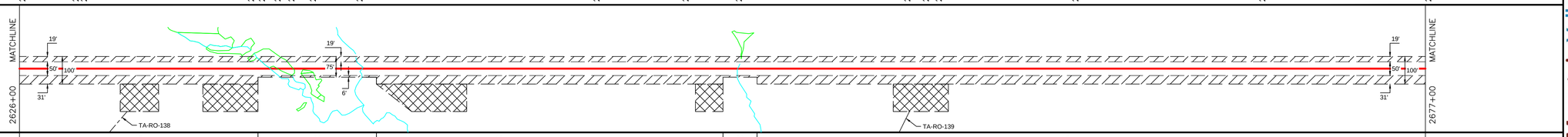
DRAWING NO.	DESCRIPTION

HORIZONTAL STATIONING

2626+00 MATCH LINE
2627+83 FENCE, 4.5' HOG & BARBED WIRE
2628+03 PROPERTY LINE
2633+30 CL STREAM (S-A18-183)
2633+57 BEGIN WETLAND (W-A18-184)
2634+14 END WETLAND (W-A18-184)
2635+76 PROPERTY LINE
2636+54 PROPERTY LINE
2636+64 CL STREAM (AS-A18-182)
2646+83 PROPERTY LINE
2650+06 PROPERTY LINE
2650+26 CL STREAM (S-A18-244)
2656+80 PROPERTY LINE
2657+47 CL ACCESS RD (GRASS)
2657+94 PROPERTY LINE
2664+20 PROPERTY LINE
2670+98 PROPERTY LINE
2677+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)



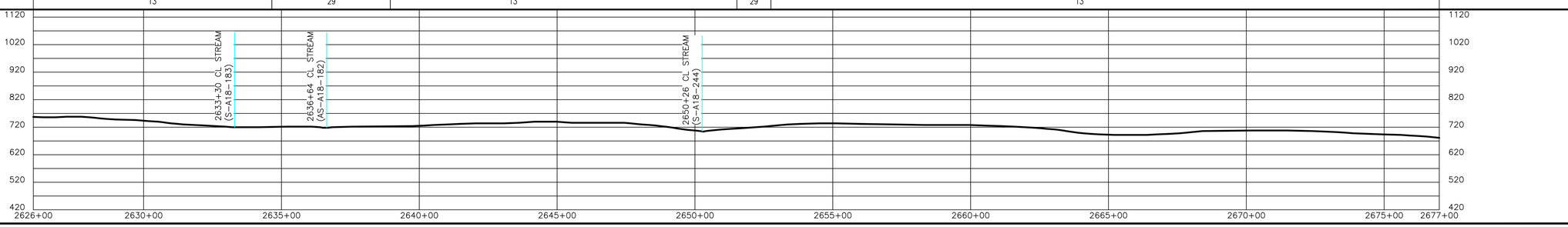
CONSTRUCTION METHOD

13 | 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 - HORIZONAL DIRECTIONAL DRILL (HDD)
13 - PARALLEL TO POWER LINES
17 - PARALLEL TO FORIEGN 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	11/06/18	ISSUED FOR FERC

MATERIAL SUMMARY

MK NO.	QTY	DESCRIPTION
B	5100 LF	16"O.D. X 0.3125"W.T., X-65, TBE

AERIAL PHOTOGRAPHY DATE: 2018

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

ISSUED FOR FERC

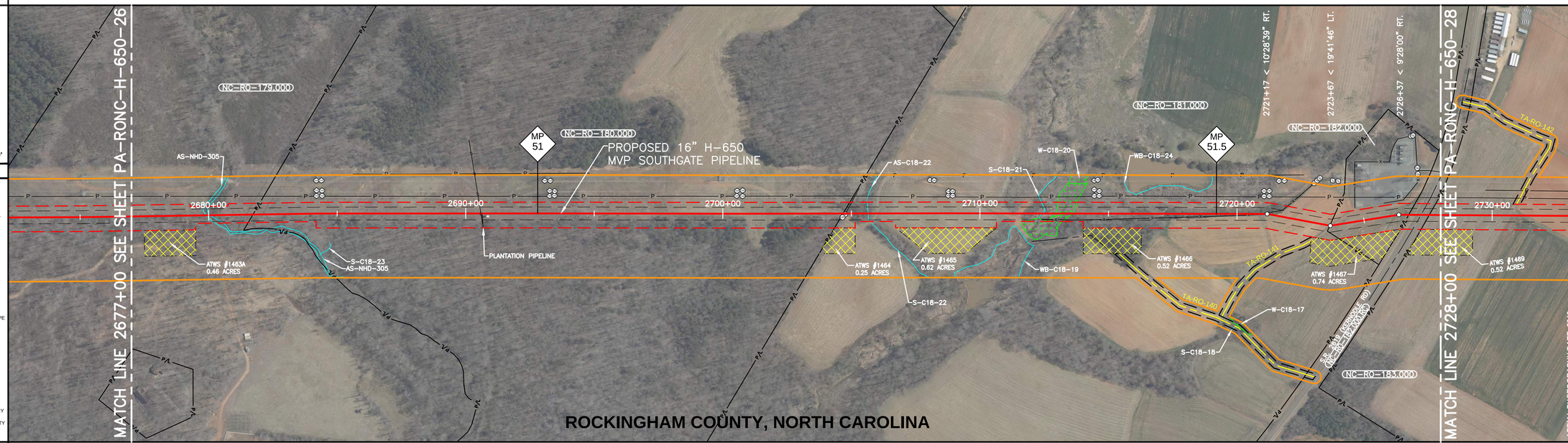
Mountain Valley PIPELINE LLC

PIPELINE ALIGNMENT

MVP SOUTHGATE PROJECT - H-650 LINE
ROCKINGHAM COUNTY, NORTH CAROLINA
STA. 2626+00 TO STA. 2677+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-RONC-H-650-26
SHEET: 54 OF 77	REV. P4
DATE OF PLOT:11/5/2018 4:10:11 PM	

RIGHT-OF-WAY & OWNERSHIP DATA																		
		2677+00	NC-RO-179.000 472 LF	2681+72	NC-RO-180.000 2296 LF	2704+68	NC-RO-181.000 1897 LF	2723+65	NC-RO-182.000 310 LF	2726+75	NC-RO-182.000.RC 81 LF	2727+56	NC-RO-183.000 44 LF	2728+00				
DESIGN	PIPE / COATING	2677+00	8							2726+64	9	2727+64	8	2728+00				
DESIGN	SLOPE DISTANCE																	
DESIGN	CLASS LOCATION / HCA		1															
ENVIRONMENTAL	CONSTRUCTION EXCLUSION																	
ENVIRONMENTAL	WETLAND / STREAM			AS-NHD-305 16 LF			S-C18-22 < 1 LF		S-C18-21 < 1 LF	W-C18-20 70 LF								
ENVIRONMENTAL	.																	
ENVIRONMENTAL	.																	



0' 100' 200' 400'

PLAN VIEW

LEGEND

- STUDY CORRIDOR
- PROPOSED PIPELINE
- NON-SURVEYED C/L
- 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

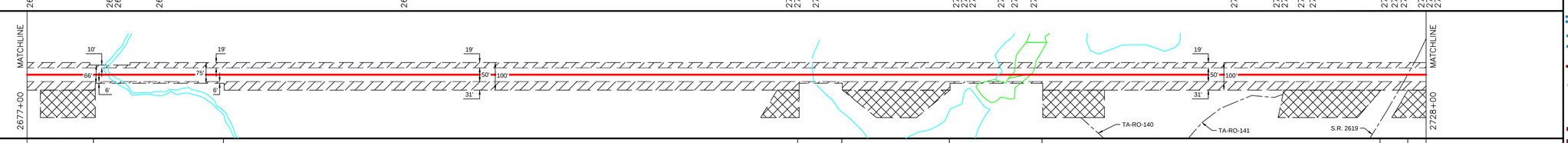
DRAWING NO.	DESCRIPTION

HORIZONTAL STATIONING

2677+00 MATCH LINE
2679+91 BEGIN STREAM (AS-NHD-305)
2680+07 END STREAM (AS-NHD-305)
2681+72 PROPERTY LINE
2690+64 PLANTATION PIPELINE
2704+68 PROPERTY LINE
2704+77 FENCE, 4' BARBED WIRE
2705+65 CL STREAM (S-C18-22)
2710+77 EDGE OF ROAD
2710+88 CL ROAD (DIRT)
2710+99 EDGE OF ROAD
2712+41 CL STREAM (S-C18-21)
2712+90 BEGIN WETLAND (W-C18-20)
2713+60 END WETLAND (W-C18-20)
2720+90 FENCE, 4' BARBED WIRE
2723+65 PROPERTY LINE
2723+65 EDGE OF ROAD
2723+75 CL ACCESS RD (DIRT)
2723+85 EDGE OF ROAD
2726+75 PROPERTY LINE
2727+12 EDGE OF ROAD
2727+24 CL S.R. 2619 (KERNODLE ROAD)(ASPHALT)
2727+35 EDGE OF ROAD
2727+56 PROPERTY LINE
2728+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)



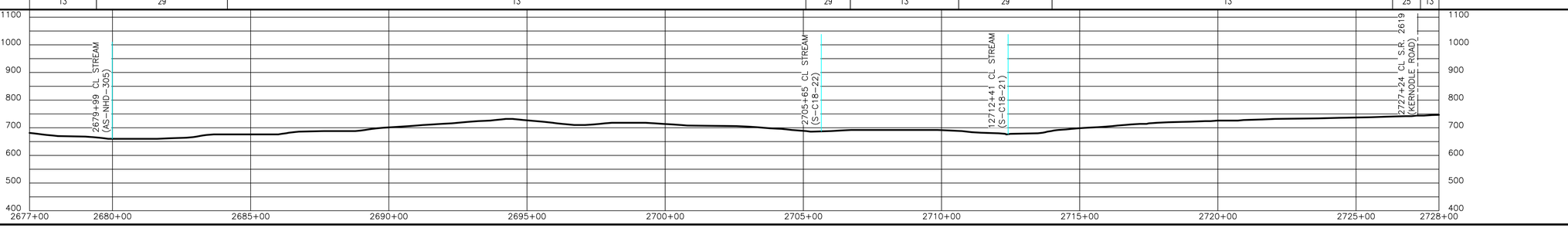
CONSTRUCTION METHOD

13 | 29 | 13 | 29 | 13 | 29 | 13 | 25 | 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 - HORIZONAL DIRECTIONAL DRILL (HDD)
13 - PARALLEL TO POWER LINES
17 - PARALLEL TO FORIEGN 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

TRC Results you can rely on

REVISIONS

REV.	BY	DATE	DESCRIPTION
P1	TRC	06/13/18	ISSUED FOR REVIEW
P2	TRC	08/20/18	FERC DRAFT
P3	TRC	10/22/18	ISSUED FOR CLIENT REVIEW
P4	TRC	11/06/18	ISSUED FOR FERC

MATERIAL SUMMARY

AERIAL PHOTOGRAPHY DATE: 2018

MK NO.	QTY.	DESCRIPTION
8	5000 LF	16"O.D. X 0.375"W.T. X-65, FBE
9	100 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

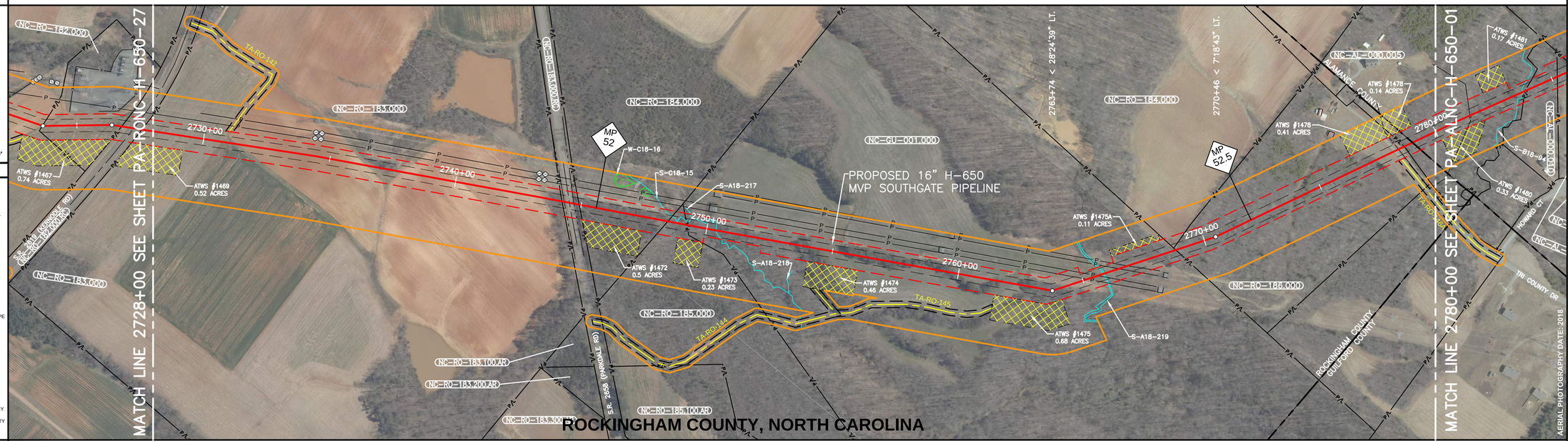
Mountain Valley PIPELINE LLC

PIPELINE ALIGNMENT

MVP SOUTHGATE PROJECT - H-650 LINE
ROCKINGHAM COUNTY, NORTH CAROLINA
STA. 2677+00 TO STA. 2728+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-RONC-H-650-27
SHEET: 55 OF 77	REV. P4
DATE OF PLOT:11/5/2018 4:10:27 PM	

RIGHT-OF-WAY & OWNERSHIP DATA																			
		2728+00	NC-RO-183.000 1624 LF	2744+24	NC-RO-183.000.RC 68 LF	2744+92	NC-RO-184.000 353 LF	2748+45	NC-RO-185.000 76 LF	2749+21	NC-GU-001.000 1961 LF	2768+82	NC-RO-186.000 982 LF	2778+64	NC-AL-000.005 136 LF	2780+00	
DESIGN	PIPE / COATING	2728+00	8	2744+11	9	2744+99	8									2780+00	
	SLOPE DISTANCE																
	CLASS LOCATION / HCA		1												2		
ENVIRONMENTAL	CONSTRUCTION EXCLUSION																
	WETLAND / STREAM								S-C18-15 < 1 LF				S-A18-219 5 LF				
	.																
	.																



PLAN VIEW

0' 100' 200' 400'

LEGEND

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

REFERENCE DRAWINGS

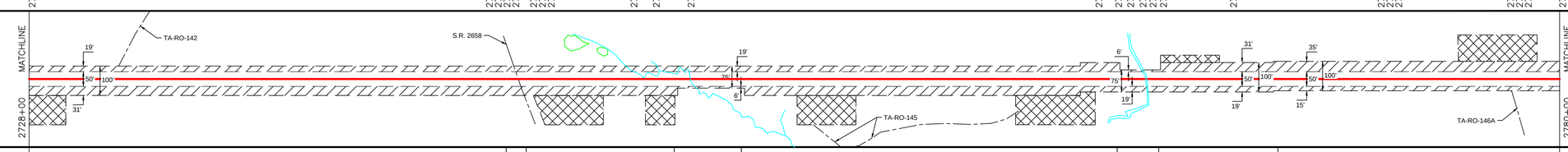
DRAWING NO.	DESCRIPTION

HORIZONTAL STATIONING

2728+00 MATCH LINE
2744+24 PROPERTY LINE
2744+32 CL DITCH
2744+43 EDGE OF ROAD
2744+53 CL S.R. 2658 (PARKDALE RD)(ASPHALT)
2744+64 EDGE OF ROAD
2744+71 CL DITCH
2744+92 PROPERTY LINE
2748+45 PROPERTY LINE
2749+21 PROPERTY LINE
2750+39 CL STREAM (S-C18-15)
2765+17 OVERHEAD TRANSMISSION LINE, END PARALLEL
2765+61 OVERHEAD TRANSMISSION LINE
2765+84 BEGIN STREAM (S-A18-219)
2765+89 END STREAM (S-A18-219)
2766+48 OVERHEAD TRANSMISSION LINE
2766+83 OVERHEAD TRANSMISSION LINE
2768+82 PROPERTY LINE
2773+84 EDGE OF ROAD
2773+91 CL ROAD (GRASS)
2773+99 EDGE OF ROAD
2778+24 CL ACCESS RD (GRAVEL)
2778+40 FENCE, 4' HOG WIRE
2778+64 PROPERTY LINE
2780+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

13 | 25 | 13 | 29 | 13 | 29 | 13 | 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
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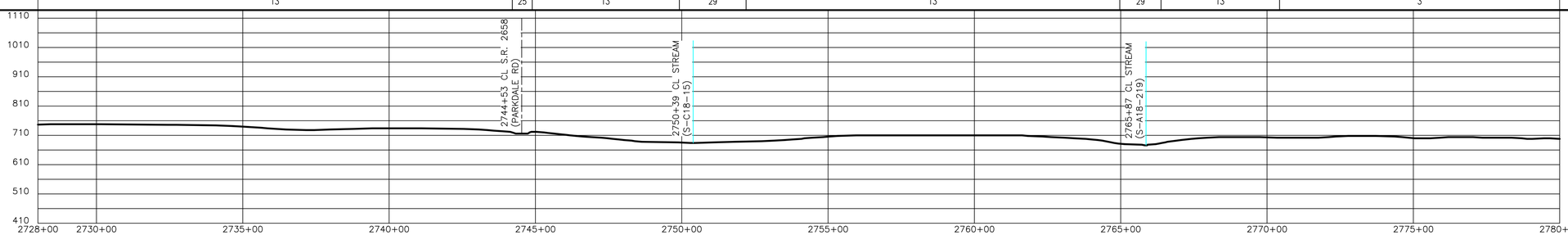
PROFILE



ISSUED FOR FERC

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	11/06/18	ISSUED FOR FERC

AERIAL PHOTOGRAPHY DATE: 2018

MATERIAL SUMMARY

MK NO.	QTY.	DESCRIPTION
8	5112 LF	16"O.D. X 0.375"W.T. FBE
9	88 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
ROCKINGHAM COUNTY, NORTH CAROLINA
STA. 2728+00 TO STA. 2780+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-RONC-H-650-28
SHEET: 56 OF 77 REV. P4
DATE OF PLOT:11/5/2018 4:10:42 PM