



MVP Southgate Project H-650 Line



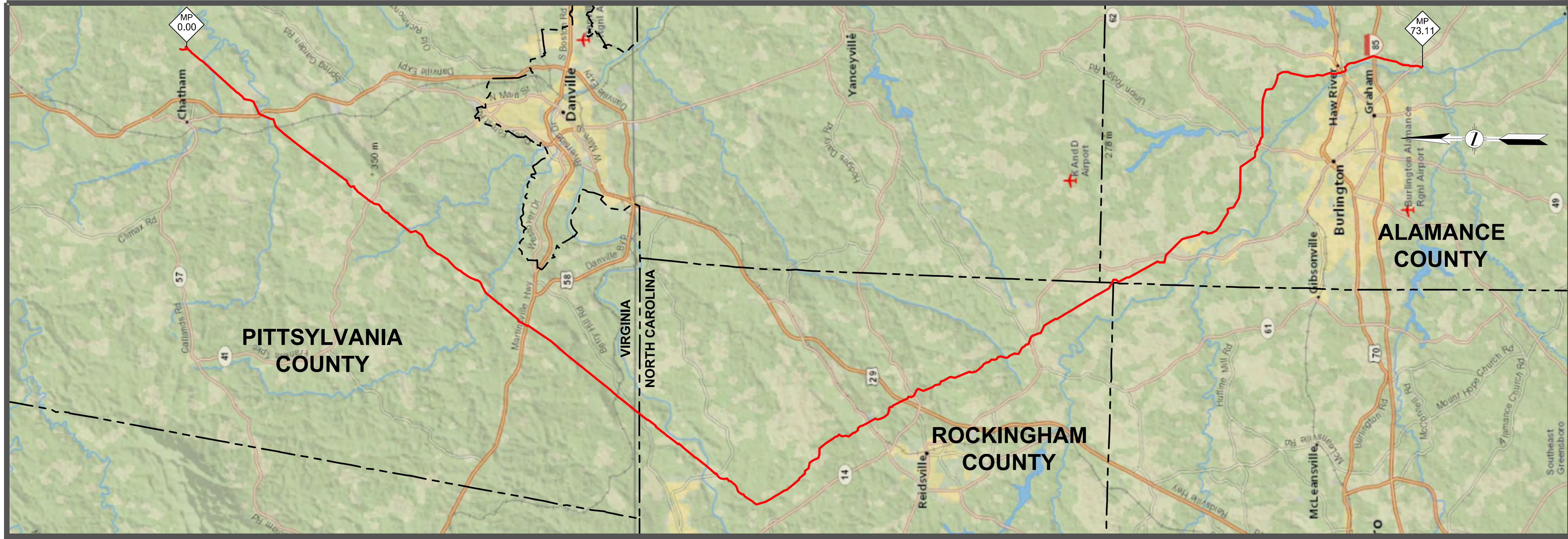
REV. NO.	DATE	ISSUED FOR REVIEW	DESCRIPTION
P1	08/13/18	ISSUED FOR REVIEW	
P2	10/22/18	ISSUED FOR CLIENT REVIEW	
P3	10/22/18	ISSUED FOR CLIENT REVIEW	
P4	11/02/18	ISSUED FOR FEREC	

APPROVED FOR COMPETITION	DATE	REV. NO.	DATE

Mountain Valley Pipeline LLC
PIPELINE COVER SHEET
MVP SOUTHGATE PROJECT - H-650 LINE

HORZ. SCALE: NONE
DRAWN BY: TRC 07/02/18
DRAFTING CK: 08/13/18
ENGINEERING CK:
CONSTRUCTION CK:
ENVIRONMENTAL CK:
AFE/P.O. NO.:
TRC PROJECT NO.: 300423
DRAWING NO.: PA-GEN-H-650-01
SHEET: 1 OF 2 REV. P4
DATE OF PLOT: 11/5/2018 2:40:14 PM

ISSUED FOR FEREC



**MVP Southgate Project
H-650 Line**

DRAWING INDEX

PA-GEN-H-650-01	COVER/NOTE SHEET	PA-RONC-H-650-21	PIPELINE ALIGNMENT, STA. 2368+00 TO STA. 2421+00
PA-GEN-H-650-02	INDEX SHEET	PA-RONC-H-650-22	PIPELINE ALIGNMENT, STA. 2421+00 TO STA. 2472+00
ALIGNMENT SHEETS		PA-RONC-H-650-23	PIPELINE ALIGNMENT, STA. 2472+00 TO STA. 2523+00
PA-PIVA-H-650-01	PIPELINE ALIGNMENT, STA. 0+00 TO STA. 40+00	PA-RONC-H-650-24	PIPELINE ALIGNMENT, STA. 2523+00 TO STA. 2575+00
PA-PIVA-H-650-02	PIPELINE ALIGNMENT, STA. 40+00 TO STA. 89+00	PA-RONC-H-650-25	PIPELINE ALIGNMENT, STA. 2575+00 TO STA. 2626+00
PA-PIVA-H-650-03	PIPELINE ALIGNMENT, STA. 89+00 TO STA. 138+00	PA-RONC-H-650-26	PIPELINE ALIGNMENT, STA. 2626+00 TO STA. 2677+00
PA-PIVA-H-650-04	PIPELINE ALIGNMENT, STA. 138+00 TO STA. 184+00	PA-RONC-H-650-27	PIPELINE ALIGNMENT, STA. 2677+00 TO STA. 2728+00
PA-PIVA-H-650-05	PIPELINE ALIGNMENT, STA. 184+00 TO STA. 235+00	PA-RONC-H-650-28	PIPELINE ALIGNMENT, STA. 2728+00 TO STA. 2780+00
PA-PIVA-H-650-06	PIPELINE ALIGNMENT, STA. 235+00 TO STA. 283+00	PA-ALNC-H-650-01	PIPELINE ALIGNMENT, STA. 2780+00 TO STA. 2829+00
PA-PIVA-H-650-07	PIPELINE ALIGNMENT, STA. 283+00 TO STA. 333+00	PA-ALNC-H-650-02	PIPELINE ALIGNMENT, STA. 2829+00 TO STA. 2879+00
PA-PIVA-H-650-08	PIPELINE ALIGNMENT, STA. 333+00 TO STA. 383+00	PA-ALNC-H-650-03	PIPELINE ALIGNMENT, STA. 2879+00 TO STA. 2924+00
PA-PIVA-H-650-09	PIPELINE ALIGNMENT, STA. 383+00 TO STA. 430+00	PA-ALNC-H-650-04	PIPELINE ALIGNMENT, STA. 2924+00 TO STA. 2971+00
PA-PIVA-H-650-10	PIPELINE ALIGNMENT, STA. 430+00 TO STA. 477+00	PA-ALNC-H-650-05	PIPELINE ALIGNMENT, STA. 2971+00 TO STA. 3021+00
PA-PIVA-H-650-11	PIPELINE ALIGNMENT, STA. 477+00 TO STA. 532+00	PA-ALNC-H-650-06	PIPELINE ALIGNMENT, STA. 3021+00 TO STA. 3073+00
PA-PIVA-H-650-12	PIPELINE ALIGNMENT, STA. 532+00 TO STA. 582+00	PA-ALNC-H-650-07	PIPELINE ALIGNMENT, STA. 3073+00 TO STA. 3122+00
PA-PIVA-H-650-13	PIPELINE ALIGNMENT, STA. 582+00 TO STA. 636+00	PA-ALNC-H-650-08	PIPELINE ALIGNMENT, STA. 3122+00 TO STA. 3175+00
PA-PIVA-H-650-14	PIPELINE ALIGNMENT, STA. 636+00 TO STA. 685+00	PA-ALNC-H-650-09	PIPELINE ALIGNMENT, STA. 3175+00 TO STA. 3230+00
PA-PIVA-H-650-15	PIPELINE ALIGNMENT, STA. 685+00 TO STA. 725+00	PA-ALNC-H-650-10	PIPELINE ALIGNMENT, STA. 3230+00 TO STA. 3280+00
PA-PIVA-H-650-16	PIPELINE ALIGNMENT, STA. 725+00 TO STA. 773+00	PA-ALNC-H-650-11	PIPELINE ALIGNMENT, STA. 3280+00 TO STA. 3336+00
PA-PIVA-H-650-17	PIPELINE ALIGNMENT, STA. 773+00 TO STA. 823+00	PA-ALNC-H-650-12	PIPELINE ALIGNMENT, STA. 3336+00 TO STA. 3389+00
PA-PIVA-H-650-18	PIPELINE ALIGNMENT, STA. 823+00 TO STA. 873+00	PA-ALNC-H-650-13	PIPELINE ALIGNMENT, STA. 3389+00 TO STA. 3442+00
PA-PIVA-H-650-19	PIPELINE ALIGNMENT, STA. 873+00 TO STA. 926+00	PA-ALNC-H-650-14	PIPELINE ALIGNMENT, STA. 3442+00 TO STA. 3500+00
PA-PIVA-H-650-20	PIPELINE ALIGNMENT, STA. 926+00 TO STA. 976+00	PA-ALNC-H-650-15	PIPELINE ALIGNMENT, STA. 3500+00 TO STA. 3557+00
PA-PIVA-H-650-21	PIPELINE ALIGNMENT, STA. 976+00 TO STA. 1027+00	PA-ALNC-H-650-16	PIPELINE ALIGNMENT, STA. 3557+00 TO STA. 3611+00
PA-PIVA-H-650-22	PIPELINE ALIGNMENT, STA. 1027+00 TO STA. 1077+00	PA-ALNC-H-650-17	PIPELINE ALIGNMENT, STA. 3611+00 TO STA. 3669+00
PA-PIVA-H-650-23	PIPELINE ALIGNMENT, STA. 1077+00 TO STA. 1127+00	PA-ALNC-H-650-18	PIPELINE ALIGNMENT, STA. 3669+00 TO STA. 3715+00
PA-PIVA-H-650-24	PIPELINE ALIGNMENT, STA. 1127+00 TO STA. 1177+00	PA-ALNC-H-650-19	PIPELINE ALIGNMENT, STA. 3715+00 TO STA. 3761+00
PA-PIVA-H-650-25	PIPELINE ALIGNMENT, STA. 1177+00 TO STA. 1228+00	PA-ALNC-H-650-20	PIPELINE ALIGNMENT, STA. 3761+00 TO STA. 3815+00
PA-PIVA-H-650-26	PIPELINE ALIGNMENT, STA. 1228+00 TO STA. 1277+00	PA-ALNC-H-650-21	PIPELINE ALIGNMENT, STA. 3815+00 TO STA. 3860+00
PA-PIVA-H-650-27	PIPELINE ALIGNMENT, STA. 1277+00 TO STA. 1329+00		
PA-PIVA-H-650-28	PIPELINE ALIGNMENT, STA. 1329+00 TO STA. 1369+00	PA-PIVA-H650-USGS-01	
PA-RONC-H-650-01	PIPELINE ALIGNMENT, STA. 1369+00 TO STA. 1417+00	PA-PIVA-H650-USGS-02	
PA-RONC-H-650-02	PIPELINE ALIGNMENT, STA. 1417+00 TO STA. 1467+00	PA-PIVA-H650-USGS-03	
PA-RONC-H-650-03	PIPELINE ALIGNMENT, STA. 1467+00 TO STA. 1518+00	PA-PIVA-H650-USGS-04	
PA-RONC-H-650-04	PIPELINE ALIGNMENT, STA. 1518+00 TO STA. 1569+00	PA-PIVA-H650-USGS-05	
PA-RONC-H-650-05	PIPELINE ALIGNMENT, STA. 1569+00 TO STA. 1621+00	PA-PIVA-H650-USGS-06	
PA-RONC-H-650-06	PIPELINE ALIGNMENT, STA. 1621+00 TO STA. 1674+00	PA-RONC-H650-USGS-07	
PA-RONC-H-650-07	PIPELINE ALIGNMENT, STA. 1674+00 TO STA. 1729+00	PA-RONC-H650-USGS-08	
PA-RONC-H-650-08	PIPELINE ALIGNMENT, STA. 1729+00 TO STA. 1779+00	PA-RONC-H650-USGS-09	
PA-RONC-H-650-09	PIPELINE ALIGNMENT, STA. 1779+00 TO STA. 1833+00	PA-RONC-H650-USGS-10	
PA-RONC-H-650-10	PIPELINE ALIGNMENT, STA. 1833+00 TO STA. 1885+00	PA-RONC-H650-USGS-11	
PA-RONC-H-650-11	PIPELINE ALIGNMENT, STA. 1885+00 TO STA. 1936+00	PA-ALNC-H650-USGS-12	
PA-RONC-H-650-12	PIPELINE ALIGNMENT, STA. 1936+00 TO STA. 1983+00	PA-ALNC-H650-USGS-13	
PA-RONC-H-650-13	PIPELINE ALIGNMENT, STA. 1983+00 TO STA. 2038+00	PA-ALNC-H650-USGS-14	
PA-RONC-H-650-14	PIPELINE ALIGNMENT, STA. 2038+00 TO STA. 2087+00	PA-ALNC-H650-USGS-15	
PA-RONC-H-650-15	PIPELINE ALIGNMENT, STA. 2087+00 TO STA. 2134+00	PA-GUNC-H650-USGS-16	
PA-RONC-H-650-16	PIPELINE ALIGNMENT, STA. 2134+00 TO STA. 2182+00		
PA-RONC-H-650-17	PIPELINE ALIGNMENT, STA. 2182+00 TO STA. 2234+00		
PA-RONC-H-650-18	PIPELINE ALIGNMENT, STA. 2234+00 TO STA. 2282+00		
PA-RONC-H-650-19	PIPELINE ALIGNMENT, STA. 2282+00 TO STA. 2319+00		
PA-RONC-H-650-20	PIPELINE ALIGNMENT, STA. 2319+00 TO STA. 2368+00		

ADDENDUM DRAWINGS
FIGURE 1A LAMBERT COMPRESSOR STATION



REV.	BY	DATE	DESCRIPTION
P1	TRC	08/13/18	ISSUED FOR REVIEW
P2	TRC	09/13/18	ISSUED FOR CLIENT REVIEW
P3	TRC	10/22/18	ISSUED FOR CLIENT REVIEW
P4	TRC	11/02/18	ISSUED FOR FERC

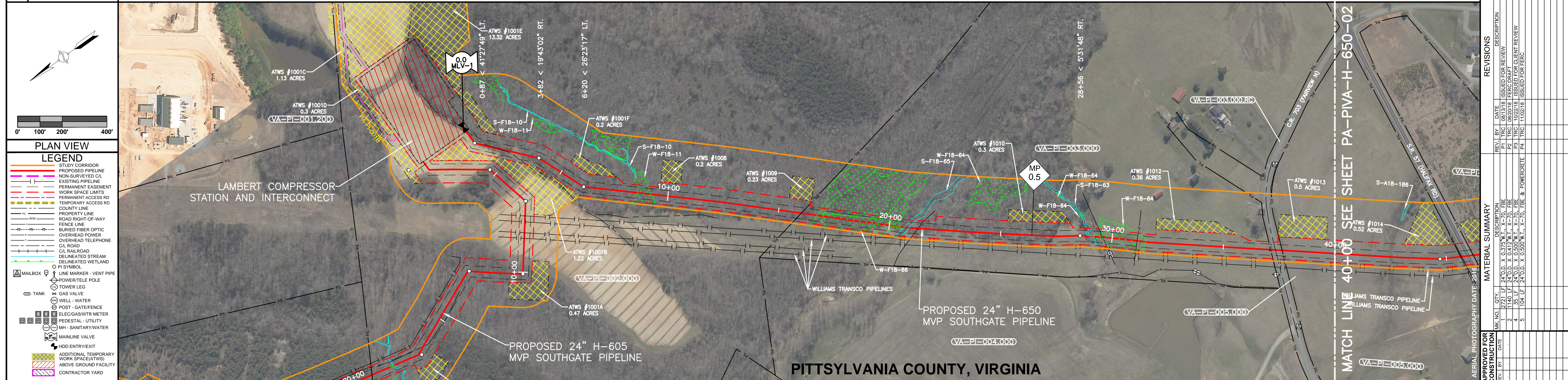
APPROVED FOR	DATE	REV.	DATE
CONSTRUCTION			
ENVIRONMENTAL			
ENGINEERING			
DRAFTING			
DRAWN BY			

Mountain Valley PIPELINE LLC
PIPELINE INDEX SHEET
MVP SOUTHGATE PROJECT - H-650 LINE

HORIZ. SCALE:	NONE
DRAWN BY:	TRC 07/02/18
DRAFTING CK:	08/13/18
ENGINEERING CK:	
CONSTRUCTION CK:	
ENVIRONMENTAL CK:	
AFE/P.O. NO.:	
TRC PROJECT NO.:	300423
DRAWING NO.:	
PA-GEN-H-650-02	
SHEET:	2 OF 2 REV. P4
DATE OF PLOT: 11/5/2018 2:40:42 PM	

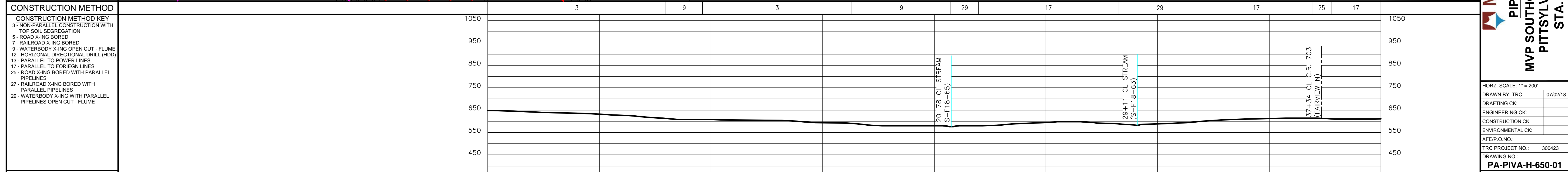
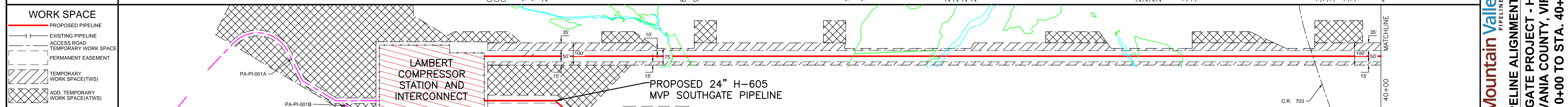
ISSUED FOR FERC

RIGHT-OF-WAY & OWNERSHIP DATA		0+00	1602 LF	16+02	2110 LF	37+12	52 LF	37+64	236 LF	40+00	
DESIGN	PIPE / COATING	0+84 0+35	1		29+71	2	36+81	5	37+85	2 38+15	1 40+00
	SLOPE DISTANCE										
	CLASS LOCATION / HCA		1			2			1		
ENVIRONMENTAL	CONSTRUCTION EXCLUSION										
	WETLAND / STREAM		W-F18-11 57 LF		W-F18-66 377 LF	S-F18-65 22 LF	S-F18-63 14 LF	W-F18-64 234 LF			



REFERENCE DRAWINGS		DRAWING NO.	DESCRIPTION
		C-V-LAM-1100-01	LAMBERT COMPRESSOR STATION

ISSUED FOR FERC



CONSTRUCTION METHOD		CONSTRUCTION METHOD KEY	
		3	9
		3	9
		29	17
		29	17
		25	17

PROFILE		0+00	5+00	10+00	15+00	20+00	25+00	30+00	35+00	40+00
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REVISIONS		REV. NO.	DATE	DESCRIPTION
		P1	08/13/18	ISSUED FOR REVIEW
		P2	08/20/18	FERC DRAFTER CLIENT REVIEW
		P3	11/02/18	ISSUED FOR FERC

Mountain Valley PIPELINE LLC

PIPELINE ALIGNMENT

MVP SOUTHGATE PROJECT - H-650 LINE

PITTSYLVANIA COUNTY, VIRGINIA

STA. 0+00 TO STA. 40+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-PIVA-H-650-01

SHEET: 1 OF 77 REV P4

DATE OF PLOT: 11/15/2018 3:08:29 PM

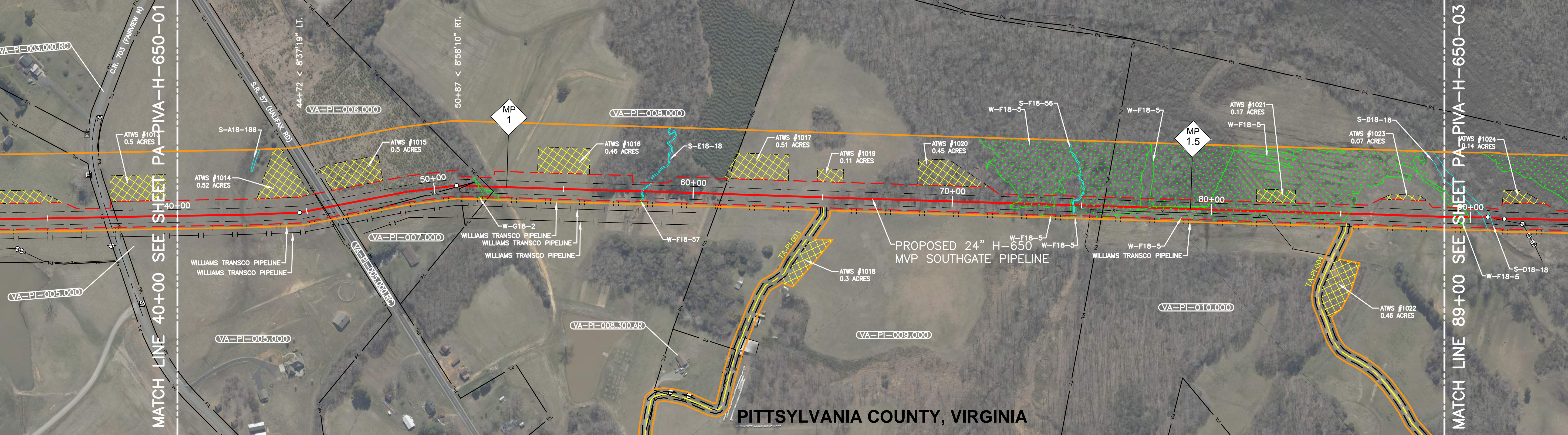
RIGHT-OF-WAY & OWNERSHIP DATA		40+00	VA-PI-005.000	44+68	VA-PI-005.000.RC	46+22	VA-PI-006.000	51+05	VA-PI-007.000	51+23	VA-PI-008.000	55+03	VA-PI-009.000	61+14	VA-PI-010.000	75+84	89+00
PIPE / COATING		1		5				2		2		1					
SLOPE DISTANCE		40:81		45:37		46:43				55:03		55:95		67:37		89:00	
CLASS LOCATION / HCA		1						2				2				1	
ENVIRONMENTAL										W-G18-2 13 LF		S-E18-18 5 LF		W-F18-5 156 LF		S-F18-56 4 LF	
WETLAND / STREAM																W-F18-5 1076 LF	

0' 100' 200' 400'

PLAN VIEW

LEGEND

- STUDY CORRIDOR
- PROPOSED PIPELINE
- NON-SURVEYED C/L
- EXISTING PIPELINE
- PERMANENT EASEMENT
- WORK SPACE LIMITS
- 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
- GAS VALVE
- WELL - WATER
- POST-GATE/FENCE
- ELECTRIC METER
- PEDESTAL UTILITY
- MH - SANITARY WATER
- MAINLINE VALVE
- ADD ENTRY/EXIT
- ADDITIONAL TEMPORARY WORK SPACE (ATWS)
- ABOVE GROUND FACILITY
- CONTRACTOR YARD



REVISIONS

REV. NO.	DATE	DESCRIPTION
P1	08/31/18	ISSUED FOR REVIEW
P2	09/20/18	FERC DRAWING CLIENT REVIEW
P3	10/22/18	FERC PERMIT REVIEW
P4	11/02/18	ISSUED FOR FERC

MATERIAL SUMMARY

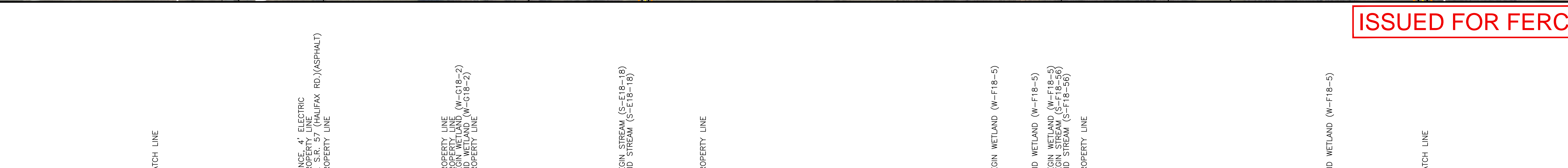
WK. NO.	QTY.	DESCRIPTION
1	2351 LF	24" O.D. X 0.375" WALL X-70 FBE
2	2403 LF	24" O.D. X 0.412" WALL X-70 FBE & POWERGRAB
3	108 LF	24" O.D. X 0.500" WALL X-70 FBE & POWERGRAB

APPROVED FOR CONSTRUCTION

APPROVED FOR FERC

REFERENCE DRAWINGS

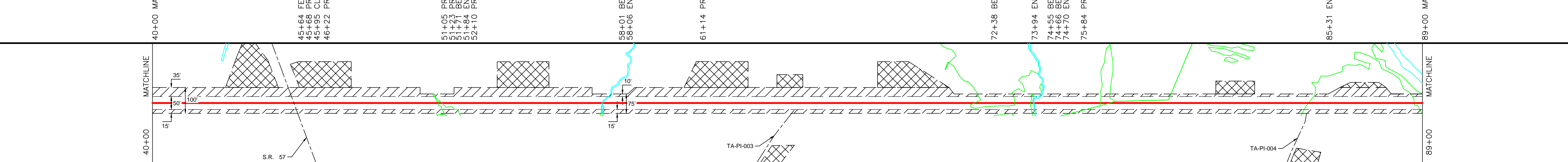
DRAWING NO.	DESCRIPTION



ISSUED FOR FERC

HORIZONTAL STATIONING

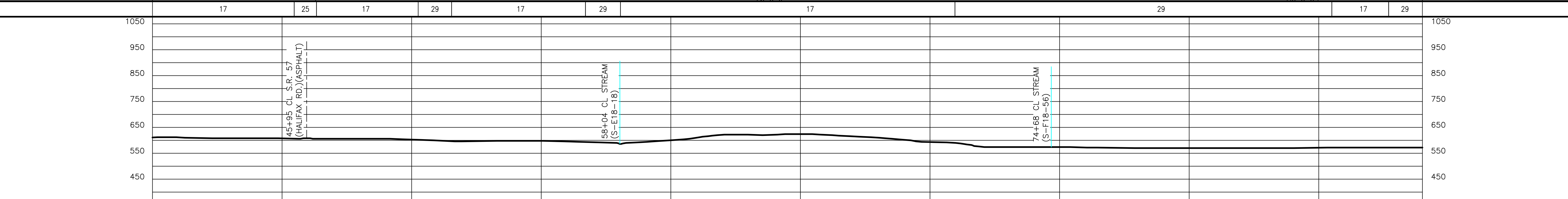
WORK SPACE



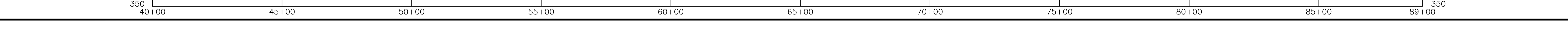
CONSTRUCTION METHOD

CONSTRUCTION METHOD KEY

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



PROFILE



APPROVED FOR BIDDING

REV. BY	DATE	DESCRIPTION

APPROVED FOR CONSTRUCTION

REV. BY	DATE	DESCRIPTION

Mountain Valley PIPELINE LLC

PIPELINE ALIGNMENT

MVP SOUTHGATE PROJECT - H-650 LINE

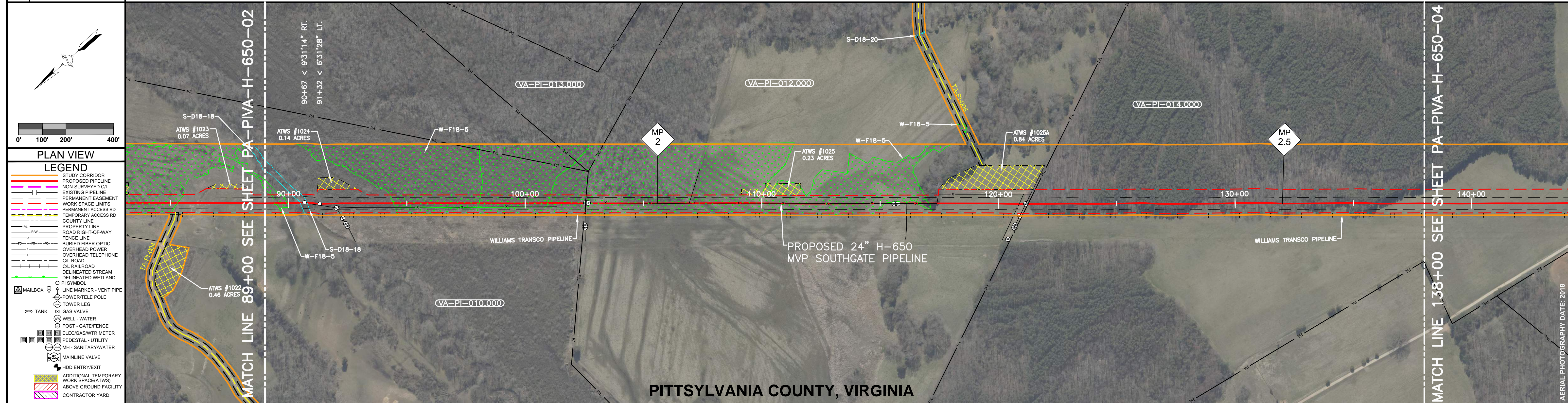
PITTSYLVANIA COUNTY, VIRGINIA

STA. 40+00 TO STA. 89+00

PA-PIVA-H-650-02

SHEET: 2 OF 77 REV. P4
DATE OF PLOT: 11/5/2018 3:08:42 PM


RIGHT-OF-WAY & OWNERSHIP DATA			(VA-PI-010.000)	(VA-PI-012.000)	(VA-PI-014.000)	
		89+00	1355 LF	1870 LF	1675 LF	138+00
DESIGN	PIPE / COATING			1		
ENVIRONMENTAL	SLOPE DISTANCE			1		
	CLASS LOCATION / HCA					
ENVIRONMENTAL	CONSTRUCTION EXCLUSION					
	WETLAND / STREAM	W-F18-5 55 LF	S-D18-18 29 LF	W-F18-5 2266 LF		



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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- OVERHEAD POWER
- OVERHEAD TELEPHONE
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- WELL - WATER
- POST - GATE/FENCE
- ELEC/GAS/WTR METER
- PEDESTAL - UTILITY
- MH - SANITARY/WATER
- MANLINE VALVE
- ADD ENTRY/EXIT
- ADDITIONAL TEMPORARY WORK SPACE(ATWS)
- ABOVE GROUND FACILITY
- CONTRACTOR YARD



Results you can rely on

REV.	BY	DATE	DESCRIPTION
P1	TRC	08/13/18	ISSUED FOR REVIEW
P2	TRC	09/20/18	FERC DRAWS CLIENT REVIEW
P4	TRC	11/02/18	ISSUED FOR FERC

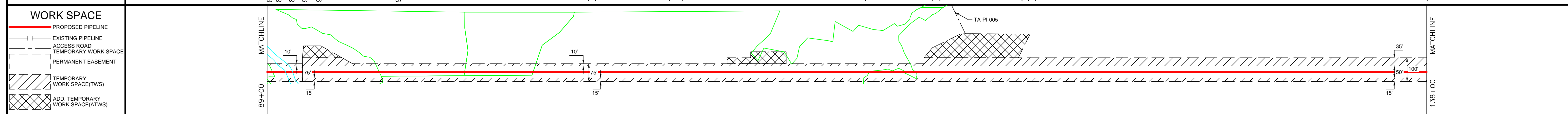
MATERIAL SUMMARY	DESCRIPTION	QTY.
1	4900 LF 24" O.D. X 0.375 W.T. X 7.0' FBE	

APPROVED FOR CONSTRUCTION	DATE

ISSUED FOR FERC

REFERENCE DRAWINGS	DRAWING NO.	DESCRIPTION

HORIZONTAL STATIONING



CONSTRUCTION METHOD

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

PROFILE

MOUNTAIN VALLEY PIPELINE LLC

PIPELINE ALIGNMENT

MVP SOUTHGATE PROJECT - H-650 LINE

PITTSYLVANIA COUNTY, VIRGINIA

STA. 89+00 TO STA. 138+00

HORZ. SCALE: 1" = 200'

DRAWN BY: TRC 07/02/18

DRAFTING CK:

ENGINEERING CK:

CONSTRUCTION CK:

ENVIRONMENTAL CK:

AFE/PO NO.:

TRC PROJECT NO.: 300423

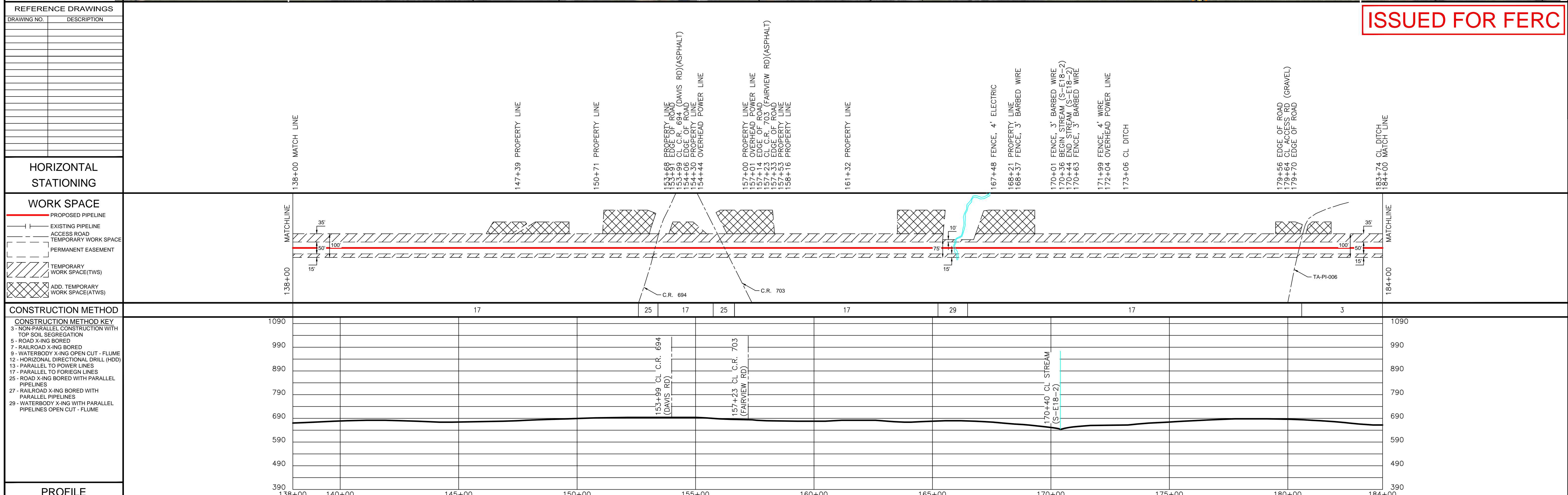
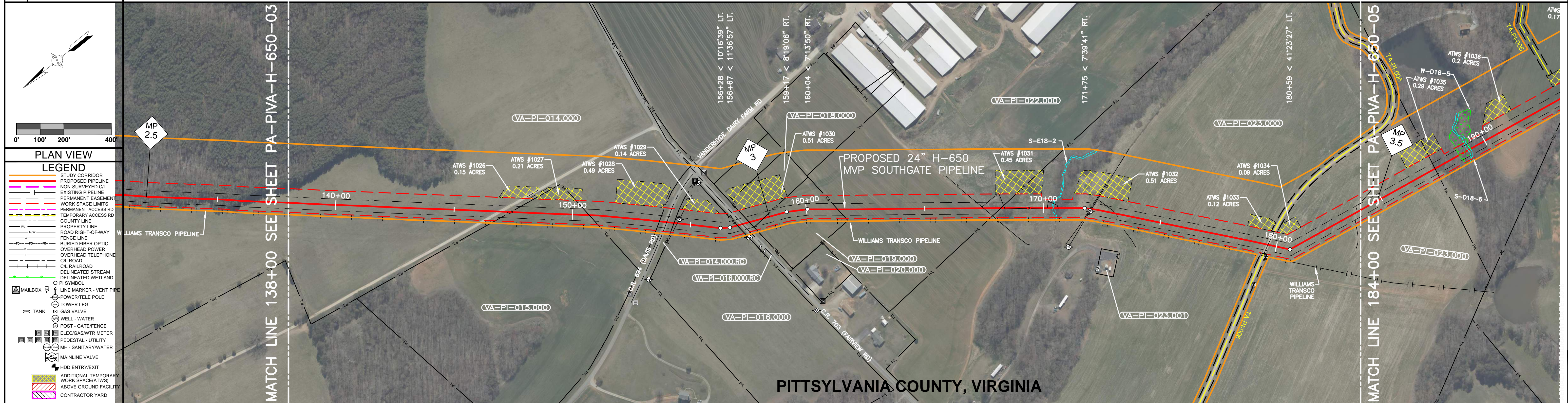
DRAWING NO.:

PA-PIVA-H-650-03

SHEET: 3 OF 77 REV. P4

DATE OF PLOT: 11/15/2018 3:07:04 PM

RIGHT-OF-WAY & OWNERSHIP DATA		138+00	147+39	150+71	153+48	154+30	156+64	157+00	157+53	158+16	161+32	168+21	184+00
PIPE / COATING		939 LF		332 LF		62 LF		270 LF		53 LF	63 LF	316 LF	1579 LF
SLOPE DISTANCE													
CLASS LOCATION / HCA				1						2			
CONSTRUCTION EXCLUSION													
WETLAND / STREAM										S-E18-2			8 LF



ISSUED FOR FERC

Mountain Valley Pipeline LLC
PIPELINE ALIGNMENT
MVP SOUTHGATE PROJECT - H-650 LINE
PITTSYLVANIA COUNTY, VIRGINIA
STA. 138+00 TO STA. 184+00

TRC
Results you can rely on

REVISIONS

REV. NO.	DATE	DESCRIPTION
1	08/24/18	ISSUED FOR REVIEW
2	10/24/18	ISSUED FOR CLIENT REVIEW
3	11/02/18	ISSUED FOR FERC

MATERIAL SUMMARY

QTY.	DESCRIPTION
24,000	X 0.375" W.L. X 70' FIBRE
2,932	LF 24" O.D. X 0.500" W.L. X 70' FIBRE
1	24" O.D. X 0.500" W.L. X 70' FIBRE & POWERGRAB
3	24" O.D. X 0.500" W.L. X 70' FIBRE
243	LF 24" O.D. X 0.500" W.L. X 70' FIBRE

APPROVED FOR CONSTRUCTION

APPROVED FOR BIDDING

APPROVED FOR FERC

APPROVED FOR BIDDING

APPROVED FOR FERC

APPROVED FOR BIDDING

APPROVED FOR FERC

HORIZ. SCALE: 1" = 200'

DRAWN BY: TRC 07/02/18

DRAFTING CK:

ENGINEERING CK:

CONSTRUCTION CK:

ENVIRONMENTAL CK:

A/E/P/O. NO.:

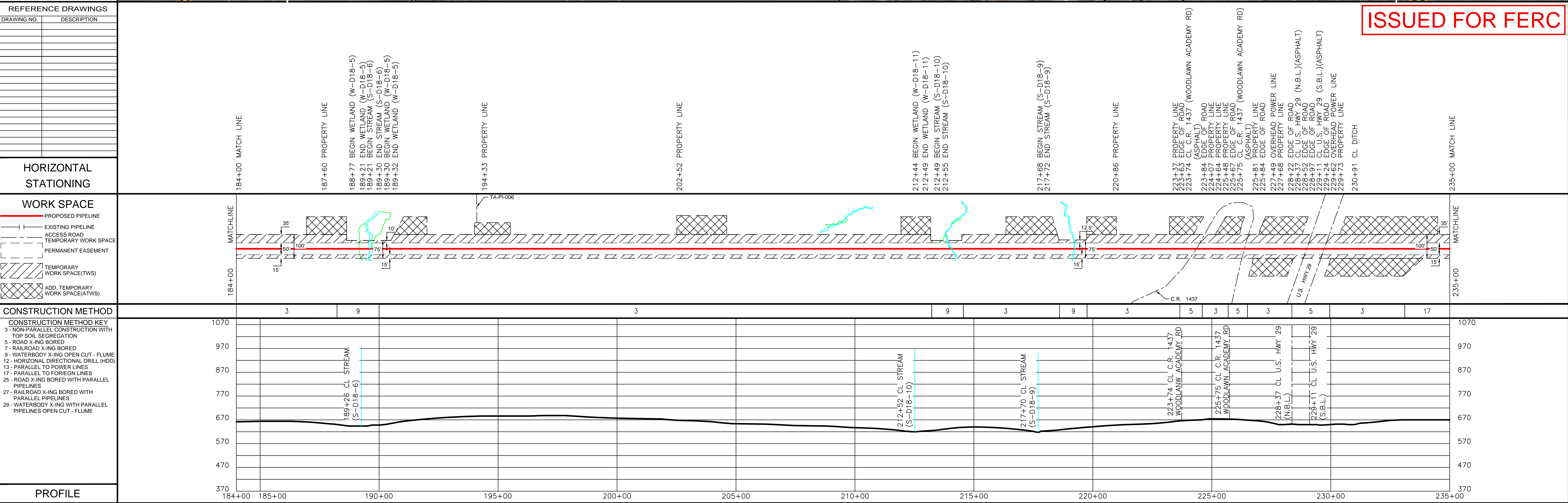
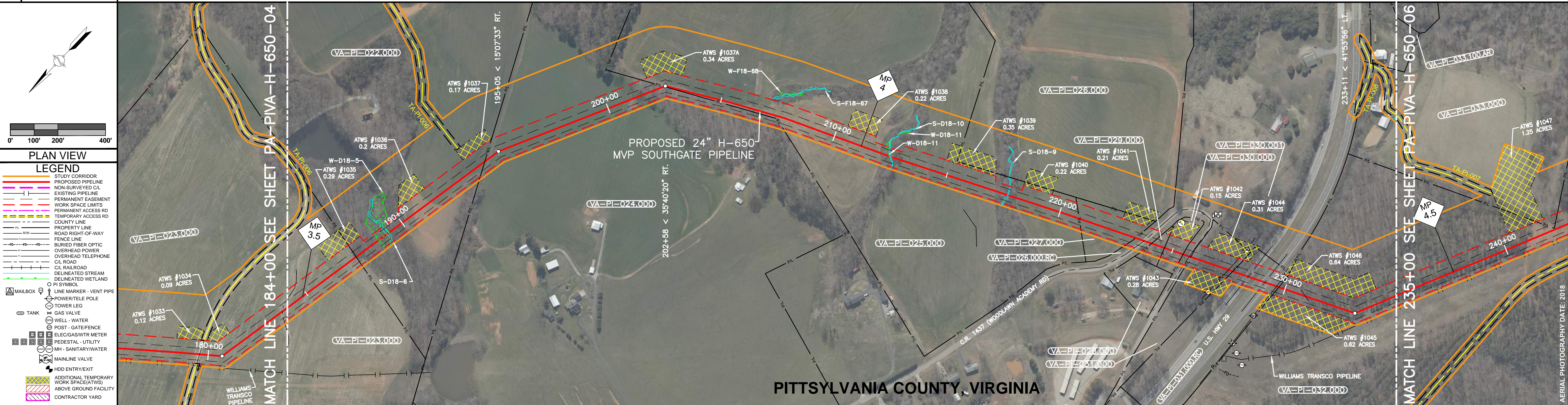
TRC PROJECT NO.: 300423

DRAWING NO.: PA-PVA-H-650-04

SHEET: 4 OF 77 REV. P4

DATE OF PLOT: 11/05/2018 4:54:31 PM

RIGHT-OF-WAY & OWNERSHIP DATA		VA-PI-023.000	VA-PI-022.000	VA-PI-024.000	VA-PI-025.000	VA-PI-027.000	VA-PI-026.000.RC	VA-PI-029.000	VA-PI-030.000	VA-PI-026.000.RC	VA-PI-031.000	VA-PI-031.000.RC	VA-PI-032.000
PIPE / COATING		360 LF	673 LF	819 LF	1834 LF	251 LF	70 LF	57 LF	84 LF	33 LF	187 LF	205 LF	527 LF
SLOPE DISTANCE													
CLASS LOCATION / HCA													



REVISIONS

REV.	DATE	DESCRIPTION
P1	08/13/18	ISSUED FOR REVIEW
P2	08/20/18	FERC DRAFT CLIENT REVIEW
P3	11/02/18	ISSUED FOR FERC

MATERIAL SUMMARY

MATERIAL	QTY.	DESCRIPTION
PIPE	1	650 LF, 24\"/>
CONCRETE	2	360 LF, 24\"/>
STEEL	5	582 LF, 24\"/>

APPROVED FOR CONSTRUCTION

REV.	DATE	DATE

ISSUED FOR FERC

Mountain Valley PIPELINE, LLC

PIPELINE ALIGNMENT

MVP SOUTHGATE PROJECT - H-650 LINE

PITTSYLVANIA COUNTY, VIRGINIA

STA. 184+00 TO STA. 235+00

HORZ. SCALE: 1" = 200'

DRAWN BY: TRC 07/02/18

DRAFTING CK:

ENGINEERING CK:

CONSTRUCTION CK:

ENVIRONMENTAL CK:

AFE/P.O. NO.:

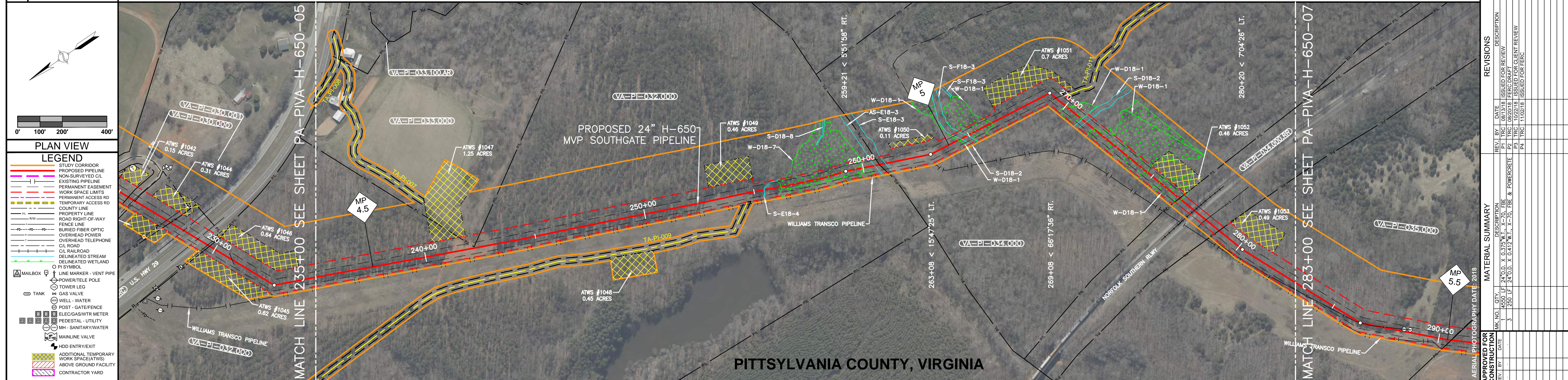
TRC PROJECT NO.: 300423

DRAWING NO.: **PA-PIVA-H-650-05**

SHEET: 5 OF 77 REV. P4

DATE OF PLOT: 11/15/2018 3:07:39 PM

RIGHT-OF-WAY & OWNERSHIP DATA		235+00	235+00	2575 LF	260+75	260+75	1581 LF	276+56	276+56	230 LF	278+86	278+86	414 LF	283+00	283+00					
DESIGN	PIPE / COATING	1																		
	SLOPE DISTANCE	1																		
ENVIRONMENTAL	CONSTRUCTION EXCLUSION																			
	WETLAND / STREAM	S-E18-4	W-D18-7	S-E18-3	W-D18-1	S-D18-2	W-D18-1	W-D18-1	S-D18-2	W-D18-1	W-D18-1	4 LF	382 LF	48 LF	14 LF	33 LF	123 LF	87 LF	23 LF	309 LF



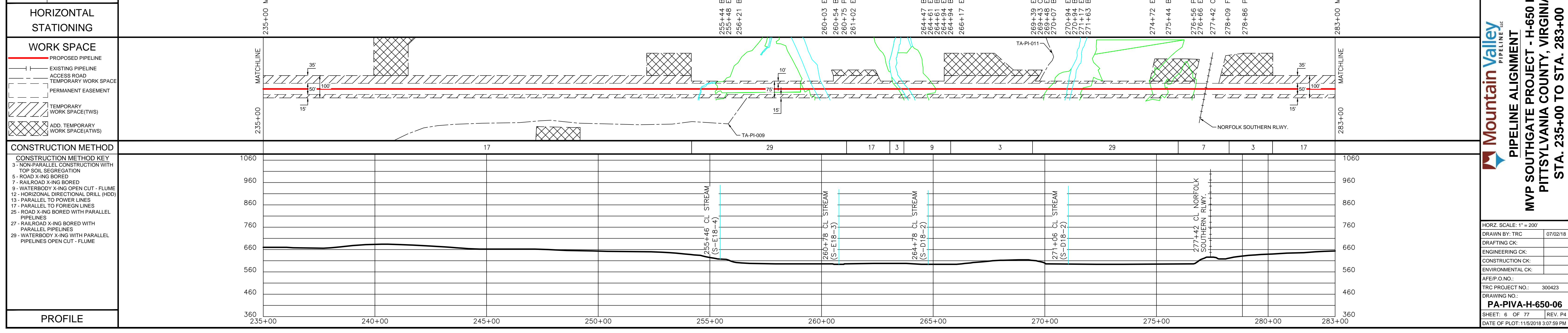
PLAN VIEW

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
- GAS VALVE
- WELL - WATER
- POST - GATE/FENCE
- ELECTRIC METER
- PEDESTAL - UTILITY
- MH - SANITARY WATER
- MANLINE VALVE
- ADD ENTRY/EXIT
- ADDITIONAL TEMPORARY WORK SPACE (ATWS)
- ABOVE GROUND FACILITY
- CONTRACTOR YARD

REFERENCE DRAWINGS		DRAWING NO.	DESCRIPTION
APPROVED FOR CONSTRUCTION		REV. BY	DATE
APPROVED FOR BIDDING		REV. BY	DATE
APPROVED FOR FERRE		REV. BY	DATE

ISSUED FOR FERRE



REVISIONS

REV. NO.	DATE	DESCRIPTION
P1	08/31/18	ISSUED FOR REVIEW
P2	09/20/18	FERC DRAWS CLIENT REVIEW
P3	11/02/18	ISSUED FOR FERRE

MATERIAL SUMMARY

QTY.	DESCRIPTION
1	4550 LF 24" O.D. X 0.375" W.T. X-70, FBE
3	250 LF 24" O.D. X 0.412" W.T. X-70, FBE & POWERGRITE

APPROVED FOR CONSTRUCTION

APPROVED FOR BIDDING

APPROVED FOR FERRE

Mountain Valley PIPELINE LLC

PIPELINE ALIGNMENT

MVP SOUTHGATE PROJECT - H-650 LINE

PITTSYLVANIA COUNTY, VIRGINIA

STA. 235+00 TO STA. 283+00

CONSTRUCTION METHOD KEY

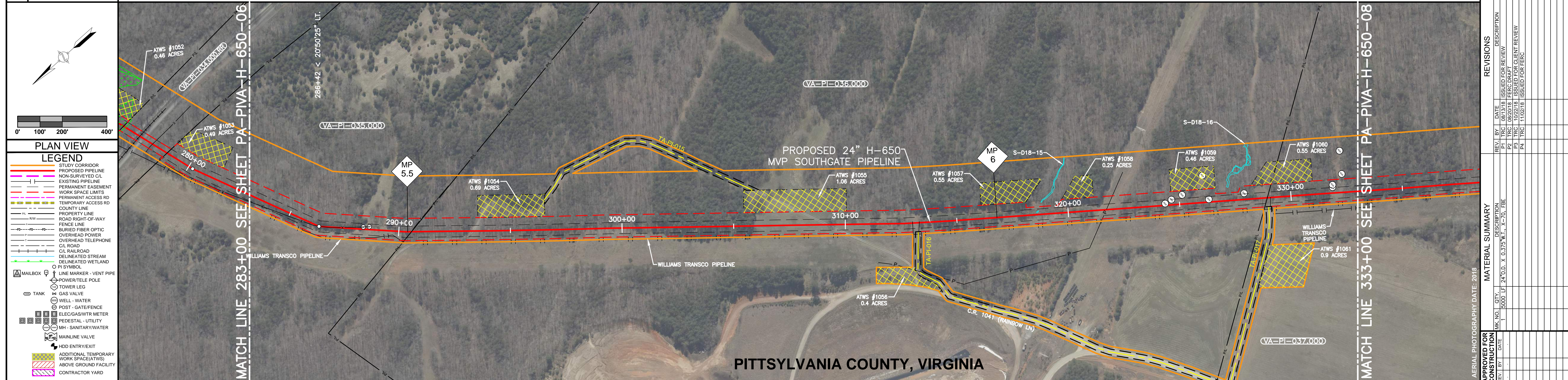
APPROVED FOR CONSTRUCTION

APPROVED FOR BIDDING

APPROVED FOR FERRE

DATE OF PLOT: 11/15/2018 3:07:59 PM

RIGHT-OF-WAY & OWNERSHIP DATA		283+00	290+57	300+00	310+00	320+00	328+94	333+00
		VA-PI-035.000		VA-PI-036.000			VA-PI-037.000	
		757 LF		3837 LF			406 LF	
DESIGN	PIPE / COATING							
	SLOPE DISTANCE	1						
	CLASS LOCATION / HCA	1						
ENVIRONMENTAL	CONSTRUCTION EXCLUSION							
	WETLAND / STREAM							



PLAN VIEW

LEGEND

- STUDY CORRIDOR
- PROPOSED PIPELINE
- NON-SURVEYED C/L
- EXISTING PIPELINE
- PERMANENT EASEMENT
- WORK SPACE LIMITS
- TEMPORARY 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
- GAS VALVE
- WELL - WATER
- POST - GATE/FENCE
- ELECTRIC METER
- PEDESTAL UTILITY
- MH - SANITARY WATER
- MANLINE VALVE
- HDD ENTRY/EXIT
- ADDITIONAL TEMPORARY WORK SPACE (ATWS)
- ABOVE GROUND FACILITY
- CONTRACTOR YARD

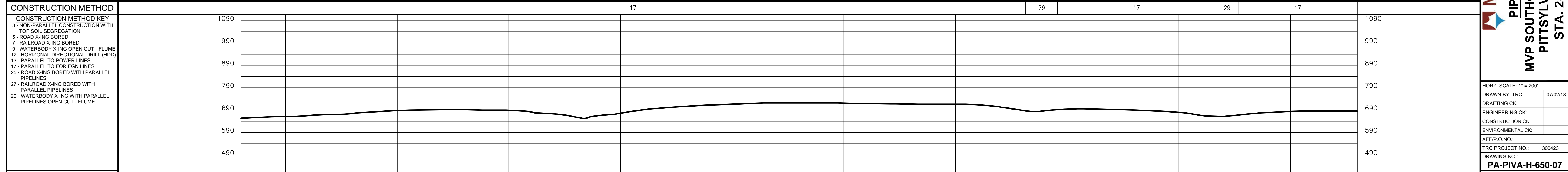
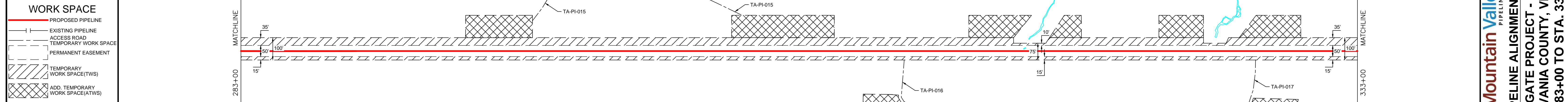
REFERENCE DRAWINGS

DRAWING NO.	DESCRIPTION
	286+38 FENCE, 4' BARBED WIRE
	286+57 FENCE, 4' BARBED WIRE
	287+26 FENCE, 4' BARBED WIRE
	290+57 FENCE, 4' BARBED WIRE
	290+57 PROPERTY LINE
	293+24 EDGE OF ROAD
	293+32 CL ACCESS ROAD (GRAVEL)
	293+38 EDGE OF ROAD
	309+16 EDGE OF ROAD
	309+26 CL ACCESS RD (GRAVEL)
	309+36 EDGE OF ROAD
	313+01 FENCE
	313+31 FENCE
	321+71 OVERHEAD TRANSMISSION LINE
	328+94 PROPERTY LINE
	329+05 EDGE OF ROAD
	329+09 CL ACCESS RD (GRAVEL)
	329+15 EDGE OF ROAD

HORIZONTAL STATIONING

283+00 MATCH LINE

333+00 MATCH LINE



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 DRAFTER CLIENT REVIEW
P3	TRC	11/02/18	ISSUED FOR FERC

MATERIAL SUMMARY

ITEM NO.	QTY.	DESCRIPTION
1	5000 LF	24" O.D. X 0.375" W.T. X 70' FIBER

APPROVED FOR CONSTRUCTION

APPROVED FOR FERC

Mountain Valley Pipeline LLC

PIPELINE ALIGNMENT

MVP SOUTHGATE PROJECT - H-650 LINE

PITTSYLVANIA COUNTY, VIRGINIA

STA. 283+00 TO STA. 333+00

HORZ. SCALE: 1" = 200'

DRAWN BY: TRC 07/02/18

DRAFTING CK:

ENGINEERING CK:

CONSTRUCTION CK:

ENVIRONMENTAL CK:

A/E/P/O NO.:

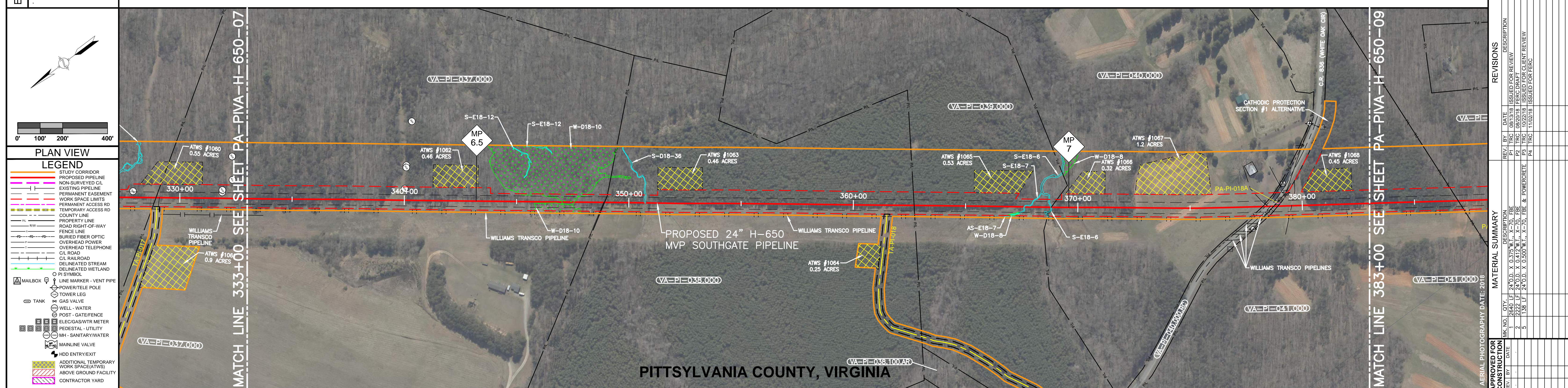
TRC PROJECT NO.: 300423

DRAWING NO.: PA-PVA-H-650-07

SHEET: 7 OF 77 REV P4

DATE OF PLOT: 11/15/2018 3:08:22 PM

RIGHT-OF-WAY & OWNERSHIP DATA		VA-PI-037.000	VA-PI-038.000	VA-PI-039.000	VA-PI-040.000	VA-PI-040.000.RC	VA-PI-041.000
PIPE / COATING		1	2	1	2	5	2
SLOPE DISTANCE							
CLASS LOCATION / HCA		1	2	1	2		
CONSTRUCTION EXCLUSION							
WETLAND / STREAM			W-D18-10 53 LF	S-D18-36 5 LF		S-E18-7 4 LF	S-E18-6 6 LF



REVISIONS	NO.	DATE	DESCRIPTION
	1	08/13/18	ISSUED FOR REVIEW
	2	08/20/18	FERC DRAFTER CLIENT REVIEW
	3	08/20/18	FERC DRAFTER CLIENT REVIEW
	4	11/02/18	ISSUED FOR FERC

APPROVED FOR CONSTRUCTION	DATE

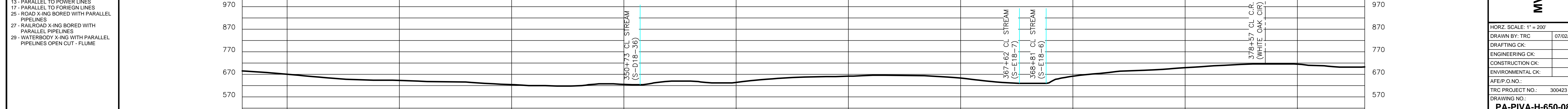
APPROVED FOR BIDDING	DATE

APPROVED FOR FERC	DATE

DRAWING NO.	DESCRIPTION

HORIZONTAL STATIONING	DESCRIPTION
333+00	MATCH LINE
347+03	BEGIN WETLAND (W-D18-10)
347+56	END WETLAND (W-D18-10)
348+88	FENCE, 5' CHAIN LINK
348+92	PROPERTY LINE
350+70	BEGIN STREAM (S-D18-36)
350+75	END STREAM (S-D18-36)
362+71	PROPERTY LINE
367+60	BEGIN STREAM (S-E18-7)
367+64	END STREAM (S-E18-7)
368+78	BEGIN STREAM (S-E18-6)
368+81	PROPERTY LINE (S-E18-6)
368+84	END STREAM (S-E18-6)
378+24	PROPERTY LINE
378+34	EDGE OF ROAD
378+41	EDGE OF ROAD
378+47	EDGE OF ROAD
378+57	CL. C.R. 836 (WHITE OAK CIR)
378+70	BURIED FIBER OPTIC CABLE
378+72	OVERHEAD POWER LINE
378+73	OVERHEAD POWER LINE
378+96	EDGE OF ROAD
379+53	CL. ROAD
379+60	EDGE OF ROAD
383+00	MATCH LINE

WORK SPACE	DESCRIPTION



CONSTRUCTION METHOD	DESCRIPTION

PROFILE	DESCRIPTION



MATERIAL SUMMARY	DESCRIPTION	QTY.

APPROVED FOR CONSTRUCTION	DATE

APPROVED FOR BIDDING	DATE

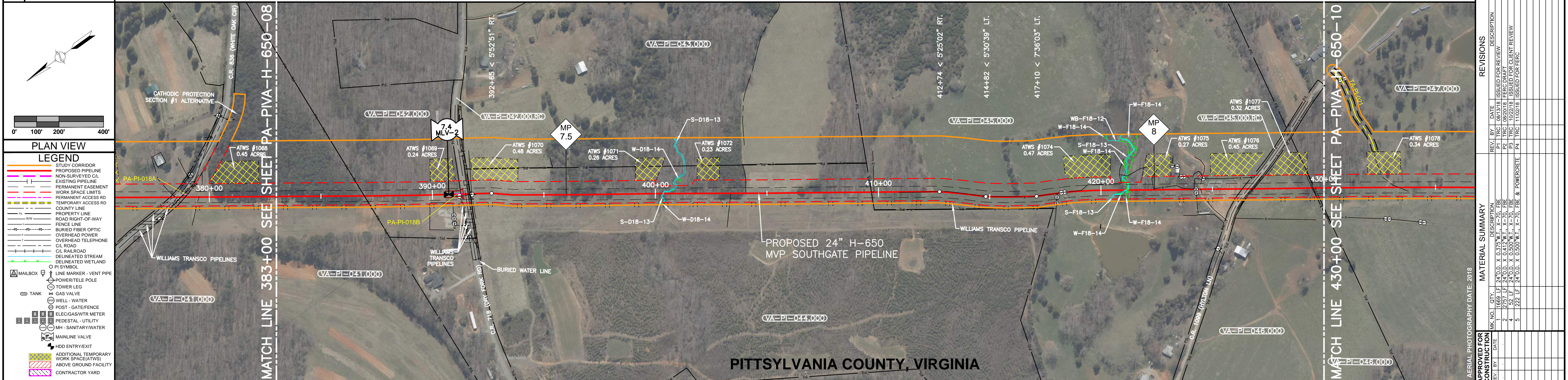
APPROVED FOR FERC	DATE

Mountain Valley PIPELINE LLC
PIPELINE ALIGNMENT
MVP SOUTHGATE PROJECT - H-650 LINE
PITTSYLVANIA COUNTY, VIRGINIA
STA. 333+00 TO STA. 383+00

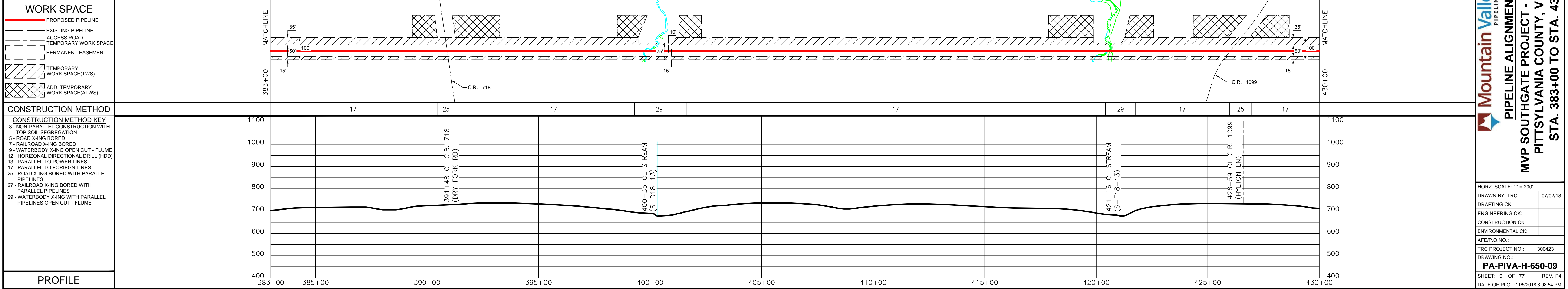
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 DRAFTING CK:
 ENGINEERING CK:
 CONSTRUCTION CK:
 ENVIRONMENTAL CK:
 AFE/P.O. NO.:
 TRC PROJECT NO.: 300423
 DRAWING NO.:
PA-PIVA-H-650-08
 SHEET: 8 OF 77 REV. P4
 DATE OF PLOT: 11/15/2018 3:08:36 PM

ISSUED FOR FERC

RIGHT-OF-WAY & OWNERSHIP DATA	VA-PI-041.000	VA-PI-042.000	VA-PI-042.000.RC	VA-PI-044.000	VA-PI-045.000	VA-PI-045.000.RC	VA-PI-046.000	VA-PI-047.000	
PIPE / COATING	395 LF	396+95	433 LF	40 LF	1800 LF	1666 LF	273 LF	42 LF	
SLOPE DISTANCE	2	390+48	4	5	2	1	2	2	
CLASS LOCATION / HCA		391+00	391+28	391+68	409+68	417+06	426+86	427+08	
CONSTRUCTION EXCLUSION									
WETLAND / STREAM					S-D18-13 3 LF		W-F18-14 3 LF	S-F18-13 9 LF	W-F18-14 5 LF



REFERENCE DRAWINGS	APPROVED FOR CONSTRUCTION	APPROVED FOR BIDDING	APPROVED FOR FERC
DRAWING NO. DESCRIPTION	REV. BY DATE	REV. BY DATE	REV. BY DATE
X-XXXX-100-01 PROPOSED MAIN LINE VALVE FLOT PLAN			



HORIZONTAL STATIONING	WORK SPACE	CONSTRUCTION METHOD	PROFILE
383+00 MATCH LINE	383+00 MATCH LINE	17	1100
396+95 PROPERTY LINE		25	1000
391+28 PROPERTY LINE		17	900
400+33 BEGIN STREAM (S-D18-13)		29	800
409+72 BEGIN FENCE, 4' ELECTRIC, ON-LINE		17	700
412+40 FENCE, 3' ELECTRIC		29	600
418+03 END FENCE, 3' ELECTRIC, ON-LINE		17	500
421+08 BEGIN WETLAND (W-F18-14)		29	400
426+85 PROPERTY LINE		17	
428+51 FENCE, 3' ELECTRIC		25	
430+00 MATCH LINE	430+00 MATCH LINE	17	1100

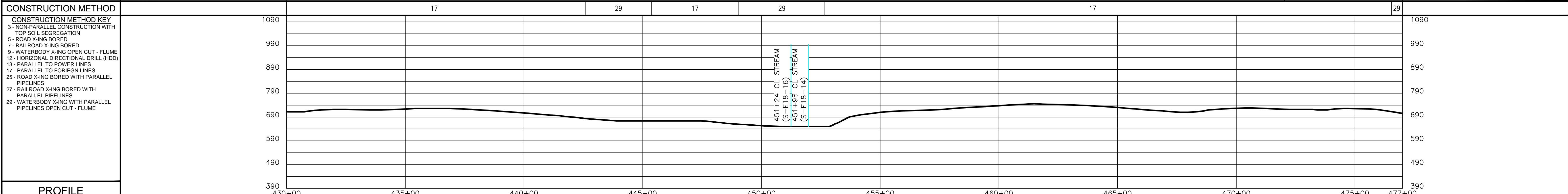
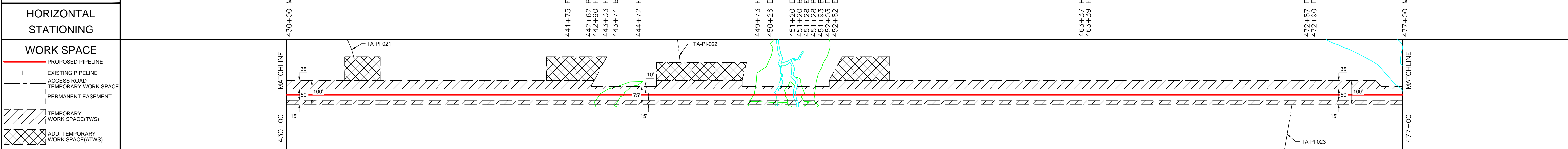
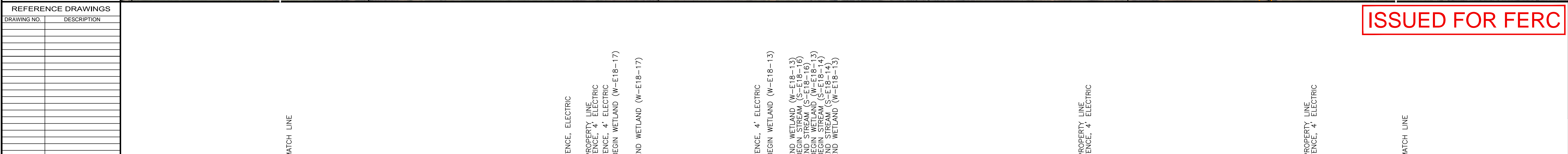
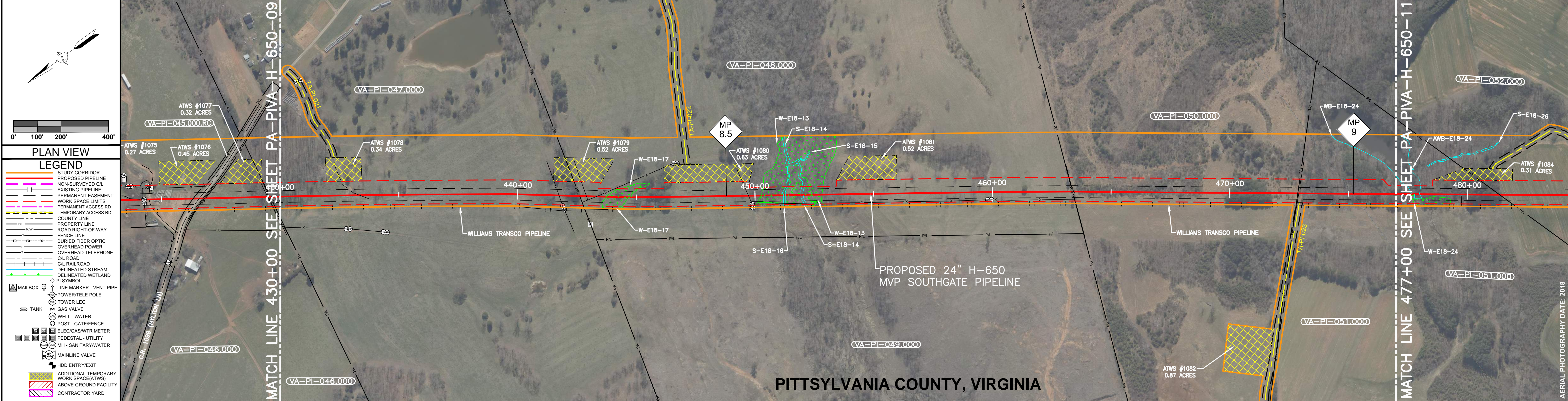


REVISIONS	
REV. NO.	DESCRIPTION
1	ISSUED FOR REVIEW
2	ISSUED FOR FERC
3	ISSUED FOR CLIENT REVIEW
4	ISSUED FOR FERC
5	ISSUED FOR FERC

MATERIAL SUMMARY	
QTY.	DESCRIPTION
1666 LF	24" O.D. X 0.375" W.T. X 70' FIBER OPTIC
273 LF	24" O.D. X 0.412" W.T. X 70' FIBER OPTIC
222 LF	24" O.D. X 0.500" W.T. X 70' FIBER OPTIC

APPROVED FOR CONSTRUCTION	
REV. BY	DATE

RIGHT-OF-WAY & OWNERSHIP DATA		430+00	VA-PI-047.000	1262 LF	442+62	VA-PI-048.000	2075 LF	463+37	VA-PI-050.000	950 LF	472+87	VA-PI-051.000	413 LF	477+00
DESIGN	PIPE / COATING	439+00	2	432+68		1								477+00
	SLOPE DISTANCE													
	CLASS LOCATION / HCA		2			1								
ENVIRONMENTAL	CONSTRUCTION EXCLUSION													
	WETLAND / STREAM			W-E18-17	98 LF	W-E18-13	94 LF	S-E18-16	8 LF	W-E18-13	154 LF	S-E18-14	10 LF	



PROFILE	430+00	435+00	440+00	445+00	450+00	455+00	460+00	465+00	470+00	475+00	477+00
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TRC
Results you can rely on

REVISIONS	
REV. BY	DATE
P1 TRC	08/31/18
P2 TRC	09/20/18
P3 TRC	11/02/18
P4 TRC	11/02/18

MATERIAL SUMMARY	
WKS. NO.	QTY.
1	4432 LF
2	288 LF

ISSUED FOR FERC

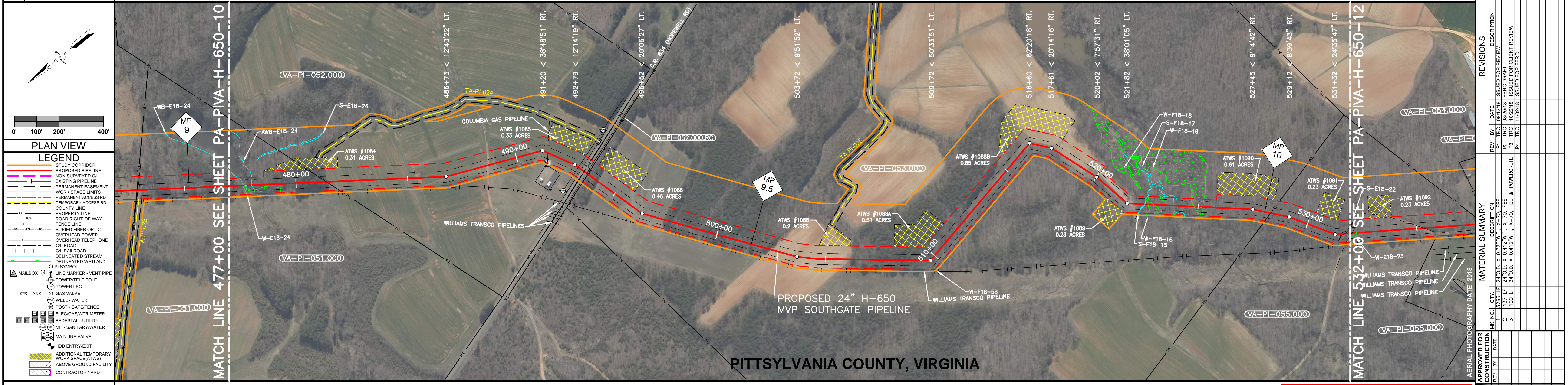
APPROVED FOR CONSTRUCTION	
REV. BY	DATE

Mountain Valley Pipeline LLC
PIPELINE ALIGNMENT
MVP SOUTHGATE PROJECT - H-650 LINE
PITTSYLVANIA COUNTY, VIRGINIA
STA. 430+00 TO STA. 477+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-PIVA-H-650-10
SHEET: 10 OF 77 REV. P4
DATE OF PLOT: 11/5/2018 3:09:14 PM

RIGHT-OF-WAY & OWNERSHIP DATA		VA-PI-051.000	VA-PI-052.000	VA-PI-052.000.RC	VA-PI-053.000	VA-PI-055.000
PIPE / COATING		437 LF	1194 LF	20 LF	3477 LF	372 LF
SLOPE DISTANCE		477+00	491+37	493+51	528+28	532+00
CLASS LOCATION / HCA				1		2

ENVIRONMENTAL		WB-E18-24	S-F18-15	W-F18-16	S-F18-17	W-F18-18
CONSTRUCTION EXCLUSION		23 LF	3 LF	27 LF	14 LF	40 LF
WETLAND / STREAM						



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
- GAS VALVE
- WELL - WATER
- POST - GATE/FENCE
- ELECTRICITY METER
- PEDESTAL - UTILITY
- MH - SANITARY WATER
- MANLINE VALVE
- ADD ENTRY/EXIT
- ADDITIONAL TEMPORARY WORK SPACE (ATWS)
- ABOVE GROUND FACILITY
- CONTRACTOR YARD

REVISIONS

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

MATERIAL SUMMARY

ITEM NO.	QTY.	DESCRIPTION
1	5263 LF	24" O.D. X 0.375" W.T. X-70 FBE
2	137 LF	24" O.D. X 0.412" W.T. X-70 FBE & CONCRETE
3	100 LF	24" O.D. X 0.412" W.T. X-70 FBE & CONCRETE

APPROVED FOR CONSTRUCTION

REV. BY	DATE

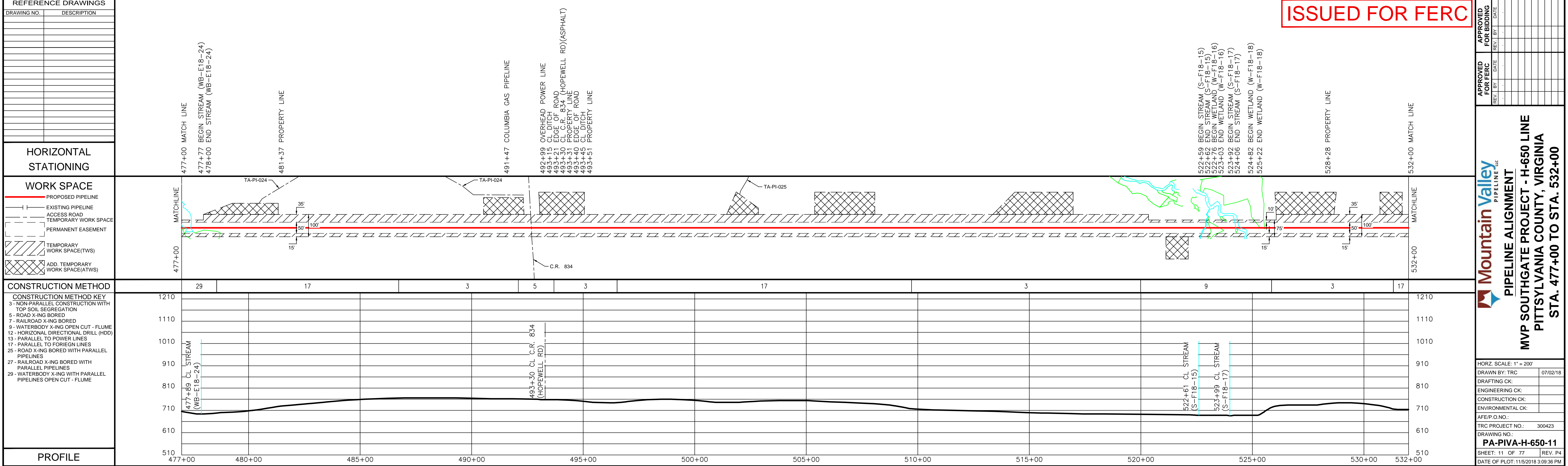
APPROVED FOR BIDDING

REV. BY	DATE

APPROVED FOR FERC

REV. BY	DATE

AERIAL PHOTOGRAPHY DATE: 2018



ISSUED FOR FERC

REFERENCE DRAWINGS

DRAWING NO.	DESCRIPTION

HORIZONTAL STATIONING

477+00 MATCH LINE
477+77 BEGIN STREAM (WB-E18-24)
478+00 END STREAM (WB-E18-24)
481+37 PROPERTY LINE
491+47 COLUMBIA GAS PIPELINE
492+99 OVERHEAD POWER LINE
493+15 CL DITCH OF ROAD
493+30 CL C.R. 834 (HOPEWELL RD)(ASPHALT)
493+31 PROPERTY LINE
493+40 EDGE OF ROAD
493+45 CL DITCH
493+51 PROPERTY 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 - HORIZONTAL DIRECTIONAL DRILL (HDD)
- 17 - PARALLEL TO FOREIGN LINES
- 25 - ROAD X-ING BORED WITH PARALLEL PIPELINES
- 27 - RAILROAD X-ING BORED WITH PARALLEL PIPELINES
- 29 - WATERBODY X-ING WITH PARALLEL PIPELINES OPEN CUT - FLUME

PROFILE

477+89 CL STREAM (WB-E18-24)
493+50 CL C.R. 834 (HOPEWELL RD)
522+61 CL STREAM (S-F18-15)
523+99 CL STREAM (S-F18-17)
528+28 PROPERTY LINE

Mountain Valley PIPELINE LLC

PIPELINE ALIGNMENT

MVP SOUTHGATE PROJECT - H-650 LINE

PITTSYLVANIA COUNTY, VIRGINIA

STA. 477+00 TO STA. 532+00

ISSUED FOR FERC

APPROVED FOR CONSTRUCTION

REV. BY	DATE

APPROVED FOR BIDDING

REV. BY	DATE

APPROVED FOR FERC

REV. BY	DATE

HORIZ. SCALE: 1" = 200'

DRAWN BY: TRC 07/02/18

DRAFTING CK:

ENGINEERING CK:

CONSTRUCTION CK:

ENVIRONMENTAL CK:

AFE/PO NO.:

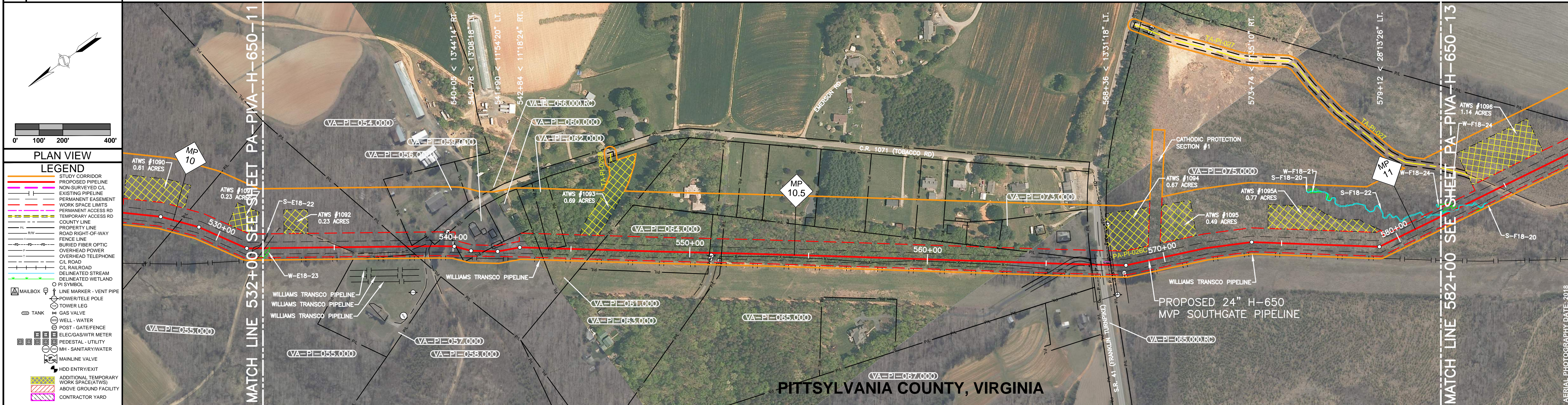
TRC PROJECT NO.: 300423

DRAWING NO.: PA-PIVA-H-650-11

SHEET: 11 OF 77 REV P4

DATE OF PLOT: 11/5/2018 3:09:36 PM

RIGHT-OF-WAY & OWNERSHIP DATA	532+00	VA-PI-055.000	603 LF	538+03	VA-PI-054.000	210 LF	540+13	VA-PI-059.000	123 LF	541+36	VA-PI-054.000	230 LF	543+66	VA-PI-061.000	38 LF	544+04	VA-PI-062.000	24 LF	544+28	VA-PI-061.000	176 LF	546+04	VA-PI-064.000	480 LF	550+84	VA-PI-063.000	50 LF	551+34	VA-PI-065.000	1556 LF	566+81	VA-PI-065.000.RC	81 LF	567+71	VA-PI-075.000	1429 LF	568+00
DESIGN	PIPE / COATING	2		4						2																5		2		1							
ENVIRONMENTAL	CONSTRUCTION EXCLUSION																																				
WETLAND / STREAM	W-E18-23 4 LF																																				



PLAN VIEW

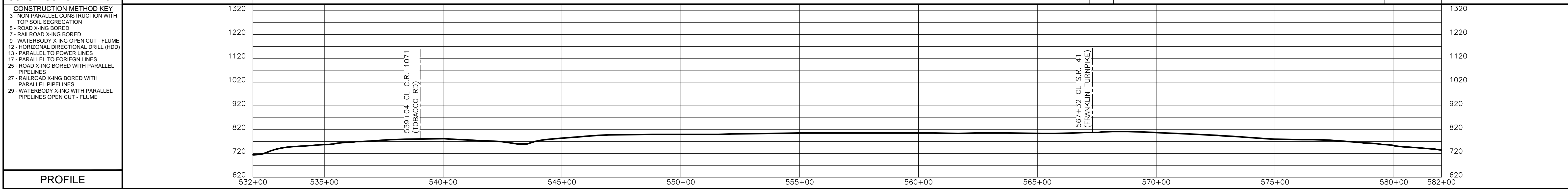
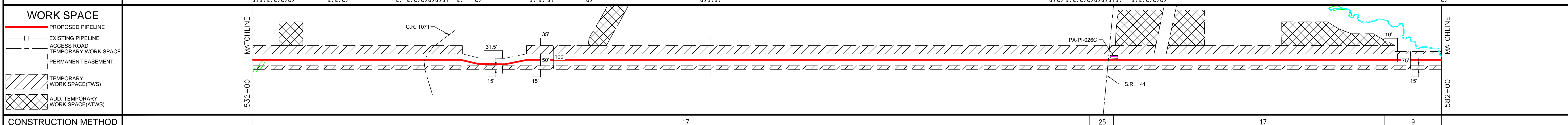
LEGEND

- STUDY CORRIDOR
- PROPOSED PIPELINE
- NON-SURVEYED C/L
- EXISTING PIPELINE
- PERMANENT EASEMENT
- WORK SPACE LIMITS
- 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
ⓧ POWER LEG
ⓧ GAS VALVE
ⓧ WELL - WATER
ⓧ POST - GATE/FENCE
ⓧ ELECTRIC/METER
ⓧ PEDESTAL UTILITY
ⓧ MH - SANITARY WATER
ⓧ MAINLINE VALVE
ⓧ ADD ENTRY/EXIT
ⓧ ADDITIONAL TEMPORARY WORK SPACE (ATWS)
ⓧ ABOVE GROUND FACILITY
ⓧ CONTRACTOR YARD

REFERENCE DRAWINGS

DRAWING NO.	DESCRIPTION
532+00 MATCHLINE	532+00 MATCHLINE
532+02 EDGE OF ROAD	532+02 EDGE OF ROAD
532+08 C/L ROAD (GRAVEL)	532+08 C/L ROAD (GRAVEL)
532+25 BEGIN WETLAND (W-E18-23)	532+25 BEGIN WETLAND (W-E18-23)
532+29 END WETLAND (W-E18-23)	532+29 END WETLAND (W-E18-23)
535+16 EDGE OF ROAD	535+16 EDGE OF ROAD
535+30 C/L ROAD (GRAVEL)	535+30 C/L ROAD (GRAVEL)
535+44 EDGE OF ROAD	535+44 EDGE OF ROAD
538+03 PROPERTY LINE	538+03 PROPERTY LINE
538+49 EDGE OF ROAD	538+49 EDGE OF ROAD
538+63 CL PRIVATE RD (GRAVEL)	538+63 CL PRIVATE RD (GRAVEL)
538+81 EDGE OF ROAD	538+81 EDGE OF ROAD
539+04 C/L ROAD (GRAVEL)	539+04 C/L ROAD (GRAVEL)
539+11 EDGE OF ROAD	539+11 EDGE OF ROAD
540+13 PROPERTY LINE	540+13 PROPERTY LINE
541+36 PROPERTY LINE	541+36 PROPERTY LINE
543+66 PROPERTY LINE	543+66 PROPERTY LINE
544+04 PROPERTY LINE	544+04 PROPERTY LINE
544+28 PROPERTY LINE	544+28 PROPERTY LINE
546+04 PROPERTY LINE	546+04 PROPERTY LINE
550+84 PROPERTY LINE	550+84 PROPERTY LINE
551+99 PROPERTY LINE	551+99 PROPERTY LINE
551+94 PROPERTY LINE	551+94 PROPERTY LINE
565+71 FENCE - 4' WOOD	565+71 FENCE - 4' WOOD
565+91 EDGE OF ROAD	565+91 EDGE OF ROAD
566+00 C/L ROAD (ASPHALT)	566+00 C/L ROAD (ASPHALT)
566+10 EDGE OF ROAD	566+10 EDGE OF ROAD
566+64 EDGE OF ROAD	566+64 EDGE OF ROAD
566+67 OVERHEAD POWER LINE	566+67 OVERHEAD POWER LINE
567+00 OVERHEAD POWER CABLE	567+00 OVERHEAD POWER CABLE
567+17 EDGE OF ROAD	567+17 EDGE OF ROAD
567+32 CL S.R. 41 (FRANKLIN TURNPIKE) (ASPHALT)	567+32 CL S.R. 41 (FRANKLIN TURNPIKE) (ASPHALT)
567+45 EDGE OF ROAD	567+45 EDGE OF ROAD
567+50 C/L ROAD	567+50 C/L ROAD
567+71 PROPERTY LINE	567+71 PROPERTY LINE
567+75 BURIED FIBER OPTIC CABLE	567+75 BURIED FIBER OPTIC CABLE
567+82 OVERHEAD POWER LINE	567+82 OVERHEAD POWER LINE
582+00 MATCHLINE	582+00 MATCHLINE



ISSUED FOR FERCC



REVISIONS

REV.	DATE	DESCRIPTION
P1	08/23/18	ISSUED FOR REVIEW
P2	08/20/18	FERC DRAFT CLIENT REVIEW
P3	11/02/18	ISSUED FOR FERCC

MATERIAL SUMMARY

QTY.	DESCRIPTION
93.4 LF	24" O.D. X 0.375" W.T. X-70. FBE
3885 LF	24" O.D. X 0.412" W.T. X-70. FBE
101 LF	24" O.D. X 0.500" W.T. X-70. FBE & POWERGRIT

APPROVED FOR CONSTRUCTION

REV.	DATE	DESCRIPTION
1		
2		
3		
4		
5		

APPROVED FOR BIDDING

REV.	DATE	DESCRIPTION
1		
2		
3		
4		
5		

Mountain Valley PIPELINE LLC

PIPELINE ALIGNMENT

MVP SOUTHGATE PROJECT - H-650 LINE

PITTSYLVANIA COUNTY, VIRGINIA

STA. 532+00 TO STA. 582+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

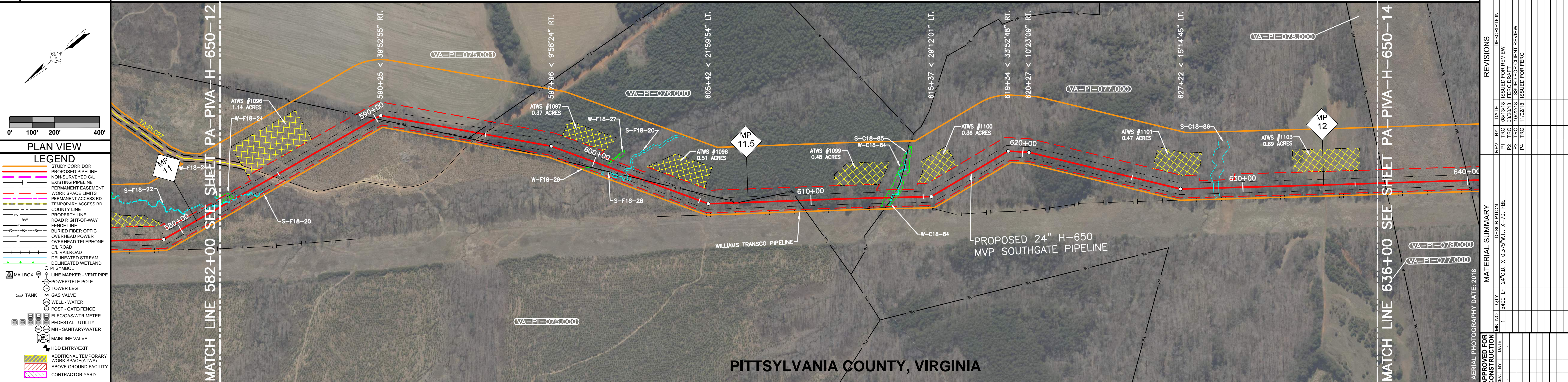
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PA-PIVA-H-650-12

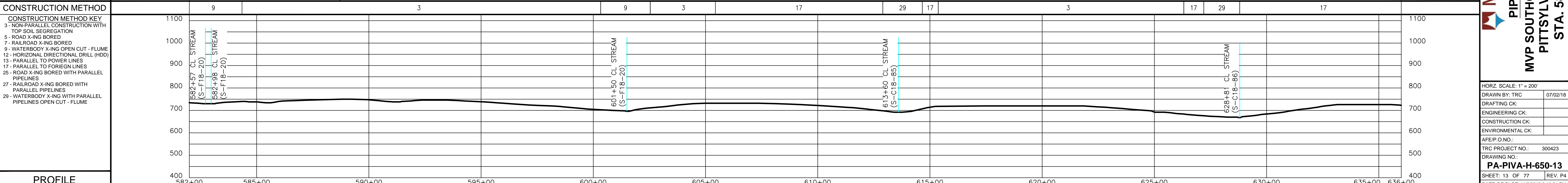
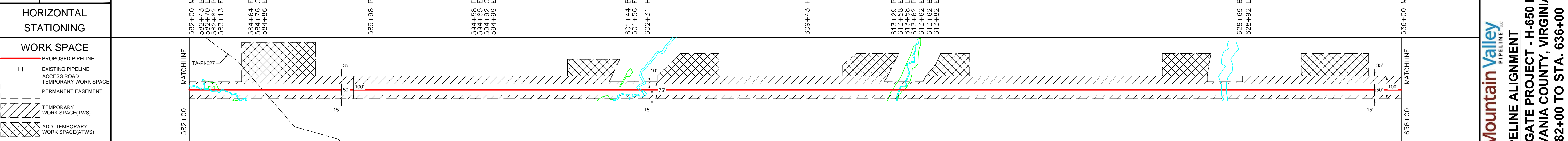
SHEET: 12 OF 77 REV P4

DATE OF PLOT: 11/5/2018 3:09:52 PM

RIGHT-OF-WAY & OWNERSHIP DATA		VA-PI-075.000	VA-PI-075.001	VA-PI-076.000	VA-PI-075.000	VA-PI-076.000	VA-PI-077.000							
		798 LF	589+98	460 LF	594+58	773 LF	602+31	712 LF	609+43	419 LF	613+62	2238 LF	636+00	636+00
DESIGN	PIPE / COATING													
	SLOPE DISTANCE													
	CLASS LOCATION / HCA													
ENVIRONMENTAL	CONSTRUCTION EXCLUSION													
	WETLAND / STREAM	S-F18-20 27 LF	S-F18-20 31 LF					S-F18-20 12 LF	W-C18-84 29 LF			S-C18-85 4 LF	W-C18-84 20 LF	S-C18-86 23 LF



REFERENCE DRAWINGS													
DRAWING NO.	DESCRIPTION												
		ISSUED FOR FERC											



PROFILE														
		582+00	585+00	590+00	595+00	600+00	605+00	610+00	615+00	620+00	625+00	630+00	635+00	636+00



REVISIONS		REV. BY	DATE	DESCRIPTION
P1	TRC	08/13/18	11:02/18	ISSUED FOR REVIEW
P2	TRC	08/20/18	11:02/18	FERC DRAWS CLIENT REVIEW
P3	TRC	11/02/18	11:02/18	ISSUED FOR FERC

MATERIAL SUMMARY		APPROVED FOR CONSTRUCTION
APPROVED FOR FERC	DATE	DESCRIPTION
1	15400 LF	24" O.D. X 0.375" W.T. X=70, FBE

AERIAL PHOTOGRAPHY DATE: 2018

Mountain Valley PIPELINE LLC

PIPELINE ALIGNMENT

MVP SOUTHGATE PROJECT - H-650 LINE

PITTSYLVANIA COUNTY, VIRGINIA

STA. 582+00 TO STA. 636+00

HORIZ. SCALE: 1" = 200'

DRAWN BY: TRC 07/02/18

DRAFTING CK:

ENGINEERING CK:

CONSTRUCTION CK:

ENVIRONMENTAL CK:

AFE/ P.O. NO.:

TRC PROJECT NO.: 300423

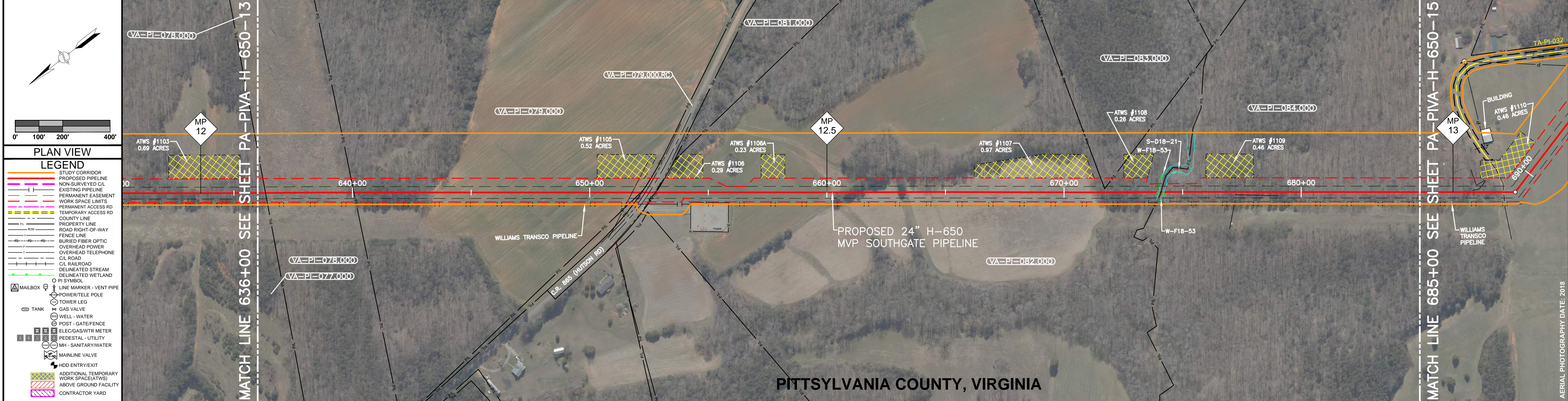
DRAWING NO.:

PA-PIVA-H-650-13

SHEET: 13 OF 77 REV. P4

DATE OF PLOT: 11/15/2018 3:10:04 PM

RIGHT-OF-WAY & OWNERSHIP DATA	DESIGN	ENVIRONMENTAL																								
<table border="1"> <tr> <td>VA-PI-077.000</td> <td>VA-PI-078.000</td> <td>VA-PI-079.000</td> <td>VA-PI-082.000</td> <td>VA-PI-079.000.RC</td> <td>VA-PI-082.000</td> <td>VA-PI-084.000</td> </tr> <tr> <td>33 LF</td> <td>373 LF</td> <td>1209 LF</td> <td>4 LF</td> <td>60 LF</td> <td>2130 LF</td> <td>1091 LF</td> </tr> </table>	VA-PI-077.000	VA-PI-078.000	VA-PI-079.000	VA-PI-082.000	VA-PI-079.000.RC	VA-PI-082.000	VA-PI-084.000	33 LF	373 LF	1209 LF	4 LF	60 LF	2130 LF	1091 LF	<table border="1"> <tr> <td>PIPE / COATING</td> <td>1</td> </tr> <tr> <td>SLOPE DISTANCE</td> <td>3</td> </tr> <tr> <td>CLASS LOCATION / HCA</td> <td>1</td> </tr> </table>	PIPE / COATING	1	SLOPE DISTANCE	3	CLASS LOCATION / HCA	1	<table border="1"> <tr> <td>CONSTRUCTION EXCLUSION</td> <td></td> </tr> <tr> <td>WETLAND / STREAM</td> <td>W-F18-53 8 LF, S-D18-21 15 LF, W-F18-53 6 LF</td> </tr> </table>	CONSTRUCTION EXCLUSION		WETLAND / STREAM	W-F18-53 8 LF, S-D18-21 15 LF, W-F18-53 6 LF
VA-PI-077.000	VA-PI-078.000	VA-PI-079.000	VA-PI-082.000	VA-PI-079.000.RC	VA-PI-082.000	VA-PI-084.000																				
33 LF	373 LF	1209 LF	4 LF	60 LF	2130 LF	1091 LF																				
PIPE / COATING	1																									
SLOPE DISTANCE	3																									
CLASS LOCATION / HCA	1																									
CONSTRUCTION EXCLUSION																										
WETLAND / STREAM	W-F18-53 8 LF, S-D18-21 15 LF, W-F18-53 6 LF																									



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
- GAS VALVE
- WELL - WATER
- POST - GATE/FENCE
- ELEC/GAS/WTR METER
- PEDESTAL - UTILITY
- MH - SANITARY/WATER
- MANLINE VALVE
- ADD ENTRY/EXIT
- ADDITIONAL TEMPORARY WORK SPACE (ATWS)
- ABOVE GROUND FACILITY
- CONTRACTOR YARD



REVISIONS

REV.	BY	DATE	DESCRIPTION
P1	TRC	08/13/18	ISSUED FOR REVIEW
P2	TRC	08/20/18	FERC DRAWING CLIENT REVIEW
P3	TRC	11/02/18	ISSUED FOR FERC

MATERIAL SUMMARY

MATERIAL	QTY.	DESCRIPTION
4789 LF	24" O.D. X 0.375" I.D. X 70' FIBER	
111 LF	24" O.D. X 0.412" I.D. X 70' FIBER & POWERCABLE	

APPROVED FOR CONSTRUCTION

REV.	BY	DATE

APPROVED FOR FERC

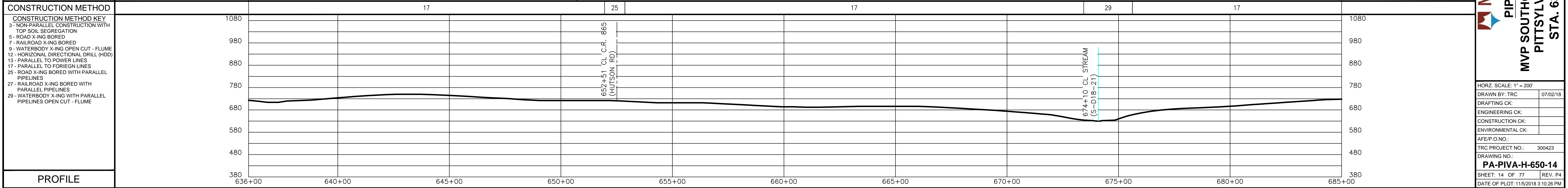
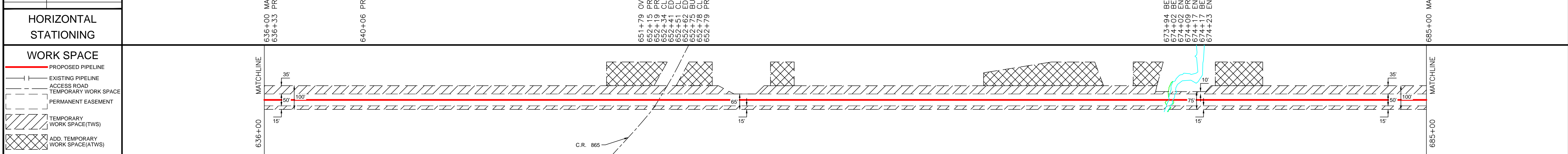
REV.	BY	DATE

AERIAL PHOTOGRAPHY DATE: 2018

REFERENCE DRAWINGS

DRAWING NO.	DESCRIPTION

ISSUED FOR FERC



Mountain Valley Pipeline LLC

PIPELINE ALIGNMENT

MVP SOUTHGATE PROJECT - H-650 LINE

PITTSYLVANIA COUNTY, VIRGINIA

STA. 636+00 TO STA. 685+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.:

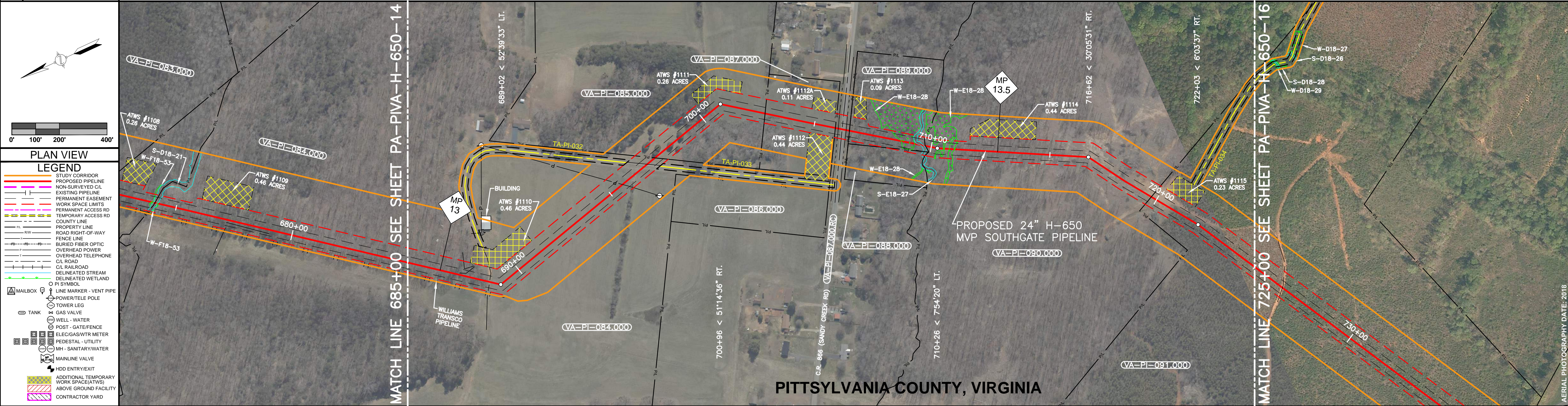
PA-PIVA-H-650-14

SHEET: 14 OF 77 REV P4

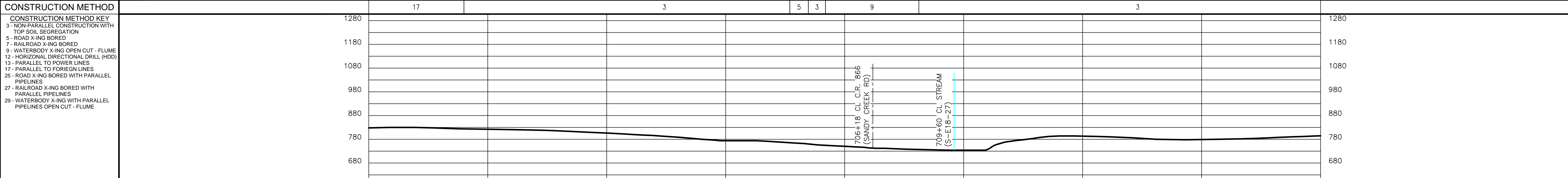
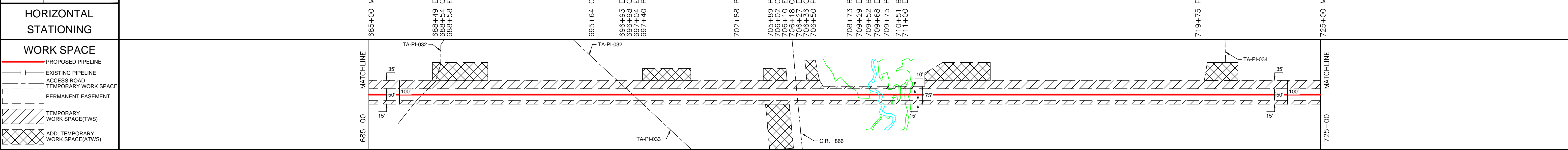
DATE OF PLOT: 11/5/2018 3:10:26 PM

RIGHT-OF-WAY & OWNERSHIP DATA		685+00	685+00	685+00	685+00	685+00	685+00	685+00	685+00	685+00	685+00	685+00	685+00
PIPE / COATING		1			2			5					1
SLOPE DISTANCE													
CLASS LOCATION / HCA		1			2								1

ENVIRONMENTAL														
CONSTRUCTION EXCLUSION														
WETLAND / STREAM										W-E18-28	S-E18-27	W-E18-28		
										56 LF	16 LF	49 LF		



REFERENCE DRAWINGS	
DRAWING NO.	DESCRIPTION



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

PROFILE	
685+00	725+00

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, GAS VALVE, WELL - WATER, POST - GATE/FENCE, ELECTROGAS/WTR METER, PEDESTAL - UTILITY, MH - SANITARY WATER, MAINLINE VALVE, ADD ENTRY/EXIT, ADDITIONAL TEMPORARY WORK SPACE (ATWS), ABOVE GROUND FACILITY, CONTRACTOR YARD



REVISIONS

REV.	DATE	DESCRIPTION
P1	08/13/18	ISSUED FOR REVIEW
P2	08/20/18	FERC DRAWGING CLIENT REVIEW
P3	08/27/18	FERC DRAWGING CLIENT REVIEW
P4	11/02/18	ISSUED FOR FERC

MATERIAL SUMMARY

QTY.	DESCRIPTION
155.34 LF	24" O.D. X 0.375" W.T. X-70 FIBER
2.295 LF	24" O.D. X 0.412" W.T. X-70 FIBER
101 LF	24" O.D. X 0.500" W.T. X-70 FIBER & CONCRETE

AERIAL PHOTOGRAPHY DATE: 2018

ISSUED FOR FERC

APPROVED FOR BIDDING	
REV.	DATE

Mountain Valley PIPELINE LLC

PIPELINE ALIGNMENT

MVP SOUTHGATE PROJECT - H-650 LINE

PITTSYLVANIA COUNTY, VIRGINIA

STA. 685+00 TO STA. 725+00

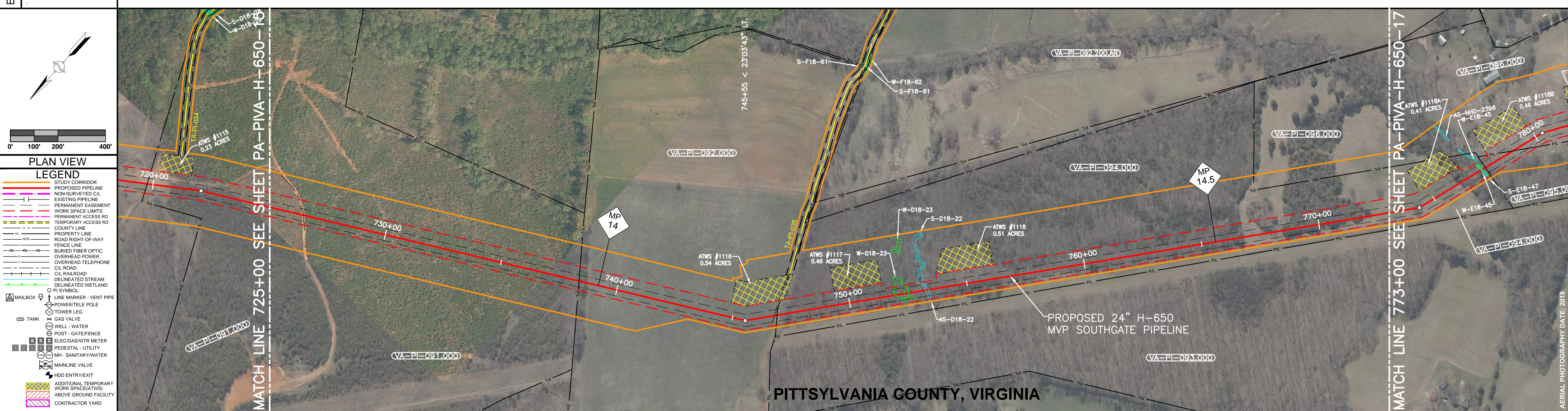
HORZ. SCALE: 1" = 200'

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-PIVA-H-650-15	
SHEET: 15 OF 77	REV. P4
DATE OF PLOT: 11/15/2018 3:10:44 PM	

RIGHT-OF-WAY & OWNERSHIP DATA	725+00	725+00	738+37	738+37	746+91	746+91	773+00	773+00
		VA-PI-091.000		VA-PI-092.000		VA-PI-094.000		
		1337 LF		854 LF		2609 LF		

DESIGN	725+00	773+00
PIPE / COATING		
SLOPE DISTANCE		
CLASS LOCATION / HCA		

ENVIRONMENTAL	725+00	773+00
CONSTRUCTION EXCLUSION		
WETLAND / STREAM		W-D18-23 55 LF
		S-D18-22 12 LF



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
- GAS VALVE
- WELL - WATER
- POST - GATE/FENCE
- ELEC/GAS/WTR METER
- PEDESTAL - UTILITY
- MH - SANITARY WATER
- MANLINE VALVE
- HDD ENTRY/EXIT
- ADDITIONAL TEMPORARY WORK SPACE(ATWS)
- ABOVE GROUND FACILITY
- CONTRACTOR YARD



REVISIONS

REV.	BY	DATE	DESCRIPTION
P1	TRC	08/31/18	ISSUED FOR REVIEW
P2	TRC	09/20/18	FERC DRAWS CLIENT REVIEW
P3	TRC	11/02/18	ISSUED FOR FERC

MATERIAL SUMMARY

ITEM NO.	QTY.	DESCRIPTION
1	4800 LF	24\"/>

APPROVED FOR CONSTRUCTION

REV.	BY	DATE

ISSUED FOR FERC

MOUNTAIN VALLEY PIPELINE LLC

PIPELINE ALIGNMENT

MVP SOUTHGATE PROJECT - H-650 LINE

PITTSYLVANIA COUNTY, VIRGINIA

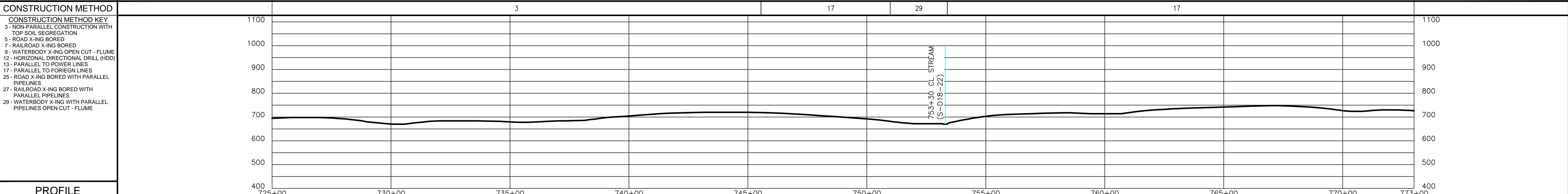
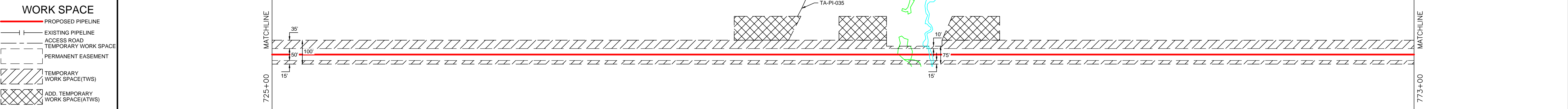
STA. 725+00 TO STA. 773+00

REFERENCE DRAWINGS

DRAWING NO.	DESCRIPTION

HORIZONTAL STATIONING

STATION	DESCRIPTION
725+00	MATCH LINE
726+39	EDGE OF ROAD
726+46	CL. ROAD (DIRT)
726+53	EDGE OF ROAD
738+37	PROPERTY LINE
746+69	EDGE OF ROAD
746+80	CL. ACCESS RD. (DIRT)
746+92	EDGE OF ROAD
751+96	BEGIN WETLAND (W-D18-23)
752+51	END WETLAND (W-D18-23)
753+24	BEGIN STREAM (S-D18-22)
753+36	END STREAM (S-D18-22)
773+00	MATCH LINE



APPROVED FOR FERC

REV.	BY	DATE

DATE OF PLOT: 11/15/2018 3:10:57 PM

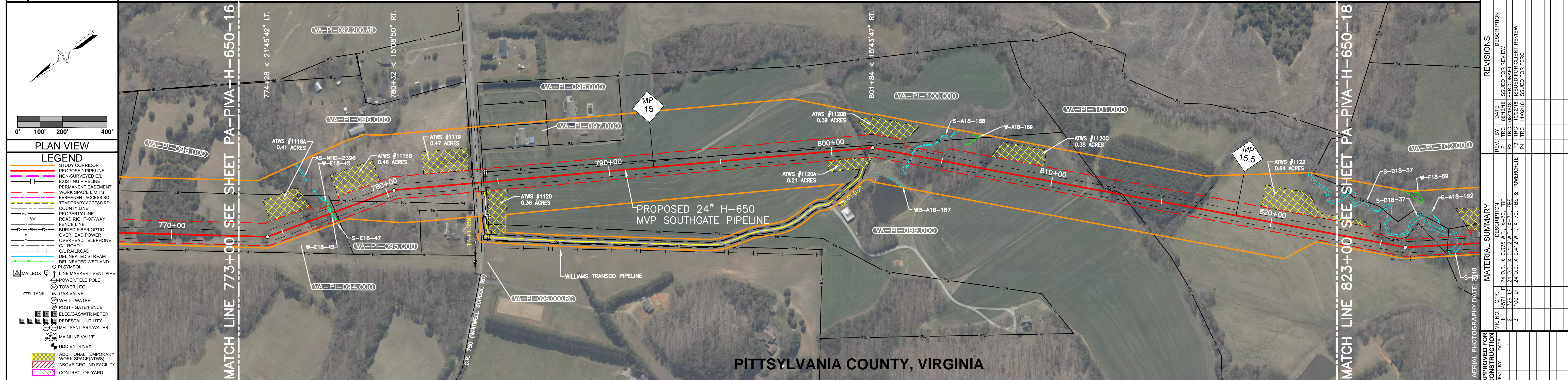
TRC PROJECT NO.: 300423

DRAWING NO.: PA-PIVA-H-650-16

SHEET: 16 OF 77

REV. P4

RIGHT-OF-WAY & OWNERSHIP DATA		773+00	VA-PI-094.000	453 LF	777+53	VA-PI-095.000	135 LF	778+88	VA-PI-096.000	498 LF	783+86	VA-PI-096.000.RC	50 LF	784+36	VA-PI-099.000	2888 LF	813+24	VA-PI-101.000	976 LF	823+00	
DESIGN	PIPE / COATING	773+00			1								3		1					1	
	SLOPE DISTANCE																				
ENVIRONMENTAL	CONSTRUCTION EXCLUSION																				
	WETLAND / STREAM			S-E18-47 3 LF		W-E18-45 3 LF									S-A18-188 5 LF						



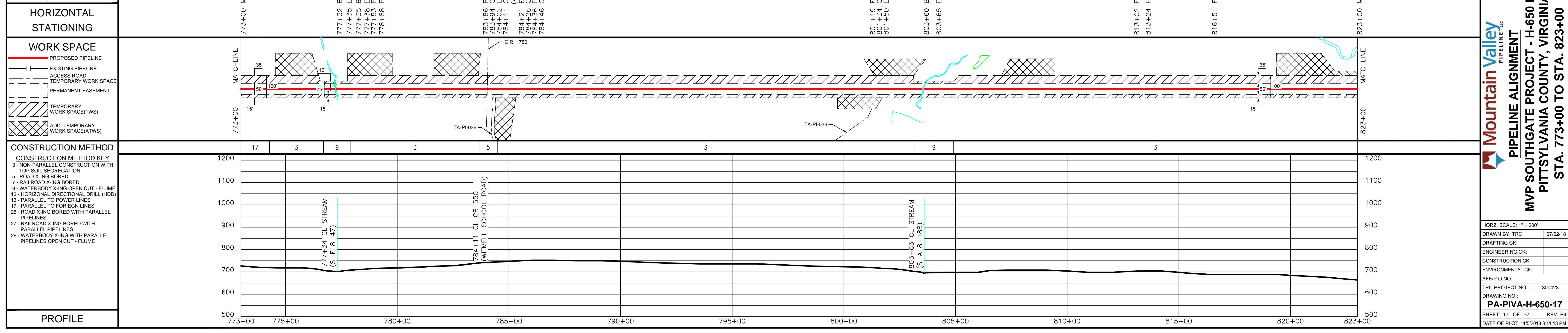
PLAN VIEW

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
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- LINE MARKER - VENT PIPE
- POWER/TELE POLE
- TOWER LEG
- TANK
- GAS VALVE
- WELL - WATER
- POST - GATE/FENCE
- ELECTRIC METER
- PEDESTAL - UTILITY
- MH - SANITARY WATER
- MANLINE VALVE
- ADD ENTRY/EXIT
- ADDITIONAL TEMPORARY WORK SPACE (ATWS)
- ABOVE GROUND FACILITY
- CONTRACTOR YARD

REFERENCE DRAWINGS		DRAWING NO.	DESCRIPTION
HORIZONTAL STATIONING		773+00 MATCH LINE	
WORK SPACE		777+32 BEGIN STREAM (S-E18-47)	
CONSTRUCTION METHOD		777+35 END STREAM (S-E18-47)	
PROFILE		777+38 BEGIN WETLAND (W-E18-45)	
		777+39 END WETLAND (W-E18-45)	
		777+40 END PROPERTY LINE	
		778+88 PROPERTY LINE	
		783+86 PROPERTY LINE	
		784+02 CL OF ROAD	
		784+11 CL CR 550 (WITMELL SCHOOL ROAD)	
		784+21 (ASPHALT)	
		784+21 EDGE OF ROAD	
		784+26 CL DITCH	
		784+26 CL OPEN DITCH	
		784+26 OVERHEAD POWER LINE	
		801+19 EDGE OF ROAD	
		801+34 CL ACCESS RD (GRAVEL)	
		801+50 EDGE OF ROAD	
		803+60 BEGIN STREAM (S-A18-188)	
		803+65 END STREAM (S-A18-188)	
		813+02 FENCE, 4' BARBED WIRE	
		813+24 PROPERTY LINE	
		816+51 FENCE, 4' BARBED WIRE	
		823+00 MATCH LINE	

ISSUED FOR FERC



REVISIONS

REV. NO.	DATE	DESCRIPTION
1	08/23/18	ISSUED FOR REVIEW
2	08/23/18	FERC DRAFTER CLIENT REVIEW
3	11/02/18	ISSUED FOR FERC

MATERIAL SUMMARY

QTY.	DESCRIPTION
4571 LF	24" O.D. X 0.375" W.T. X-70, FBE
359 LF	24" O.D. X 0.412" W.T. X-70, FBE
100 LF	24" O.D. X 0.412" W.T. X-70, FBE & POWERGRABE

APPROVED FOR CONSTRUCTION

REV. BY	DATE

APPROVED FOR BIDDING

REV. BY	DATE

APPROVED FOR FERC

REV. BY	DATE

AERIAL PHOTOGRAPHY DATE: 2/18

Mountain Valley PIPELINE LLC

PIPELINE ALIGNMENT

MVP SOUTHGATE PROJECT - H-650 LINE

PITTSYLVANIA COUNTY, VIRGINIA

STA. 773+00 TO STA. 823+00

HORZ. SCALE: 1" = 200'

DRAWN BY: TRC 07/02/18

DRAFTING CK:

ENGINEERING CK:

CONSTRUCTION CK:

ENVIRONMENTAL CK:

A/E/P O. NO.:

TRC PROJECT NO.: 300423

DRAWING NO.:

PA-PIVA-H-650-17

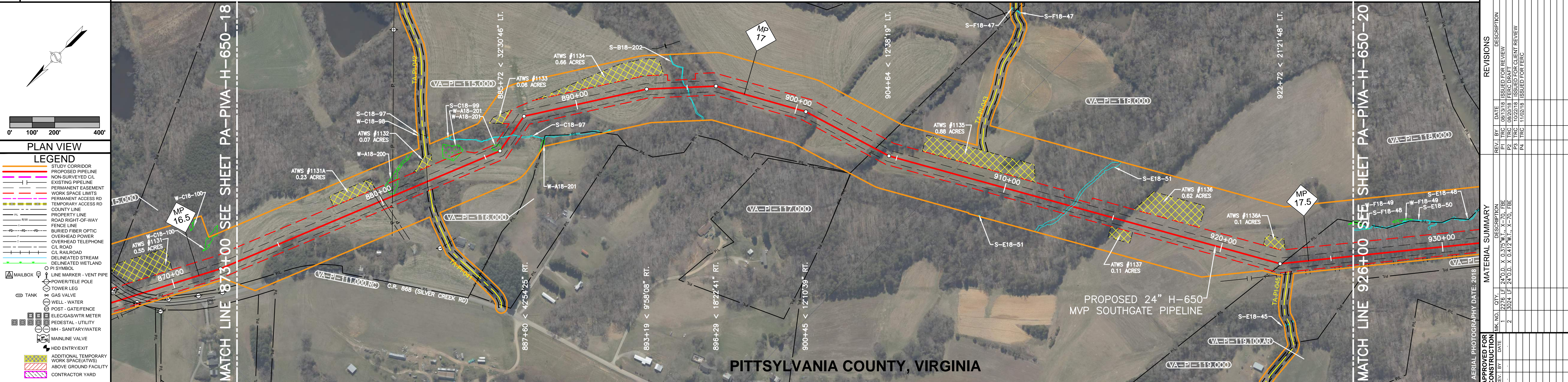
SHEET: 17 OF 77 REV. P4

DATE OF PLOT: 11/15/2018 3:11:18 PM

RIGHT-OF-WAY & OWNERSHIP DATA	VA-PI-115.000	VA-PI-118.000	VA-PI-119.000
	3095 LF	1886 LF	319 LF

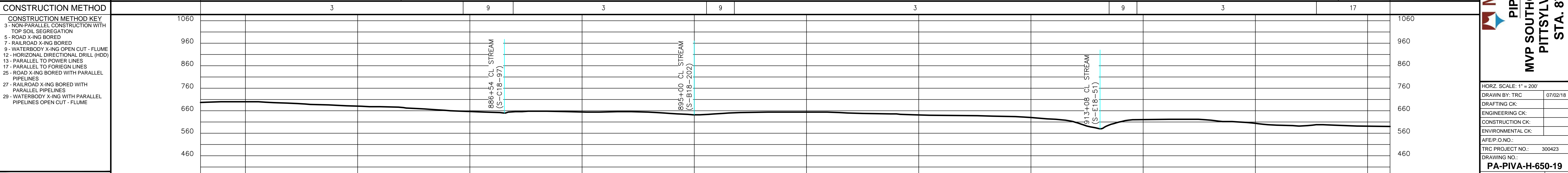
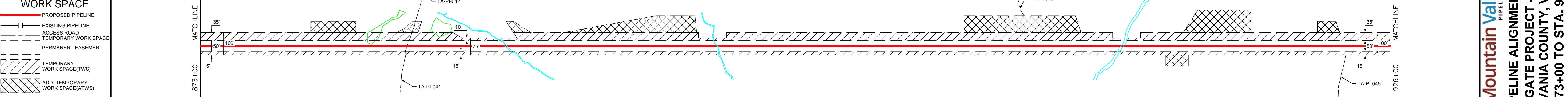
DESIGN	PIPE / COATING	2	2	1
SLOPE DISTANCE				
CLASS LOCATION / HCA				

ENVIRONMENTAL	CONSTRUCTION EXCLUSION			
WETLAND / STREAM		S-C18-97 6 LF	S-B18-202 3 LF	S-E18-51 12 LF



REFERENCE DRAWINGS	DRAWING NO.	DESCRIPTION

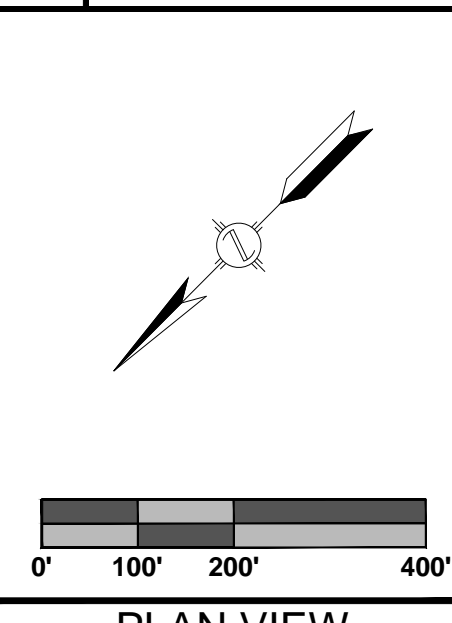
HORIZONTAL STATIONING	873+00 MATCH LINE	879+86 OVERHEAD POWER LINE	880+07 OVERHEAD POWER LINE	880+52 OVERHEAD POWER LINE	882+15 EDGE OF ROAD	882+21 CL ACCESS RD (DIRT)	882+29 EDGE OF ROAD	886+51 BEGIN STREAM (S-C18-97)	886+57 END STREAM (S-C18-97)	894+98 BEGIN STREAM (S-B18-202)	895+01 END STREAM (S-B18-202)	903+95 PROPERTY LINE	910+20 EDGE OF ROAD	910+26 CL ACCESS RD (DIRT)	910+31 EDGE OF ROAD	913+02 BEGIN STREAM (S-E18-51)	913+14 END STREAM (S-E18-51)	921+88 EDGE OF ROAD	922+81 PROPERTY LINE	926+00 MATCH LINE
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CONSTRUCTION METHOD	3	9	3	9	3	9	3	17
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PROFILE	873+00	875+00	880+00	885+00	890+00	895+00	900+00	905+00	910+00	915+00	920+00	925+00	926+00
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ISSUED FOR FERC



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
- POWER LEG
- GAS VALVE
- WELL - WATER
- POST - GATE/FENCE
- ELECTRICAL METER
- PEDESTAL UTILITY
- MH - SANITARY WATER
- MANLINE VALVE
- ADD ENTRY/EXIT
- ADDITIONAL TEMPORARY WORK SPACE (ATWS)
- ABOVE GROUND FACILITY
- CONTRACTOR YARD



REVISIONS	REV.	BY	DATE	DESCRIPTION
	P1	TRC	08/13/18	ISSUED FOR REVIEW
	P2	TRC	08/20/18	FERC DRAFTER CLIENT REVIEW
	P3	TRC	11/02/18	ISSUED FOR FERC

MATERIAL SUMMARY	ITEM NO.	QTY.	DESCRIPTION
	1	222.6 LF	24" O.D. X 0.375" W.T. X-70, FBE
	2	3924 LF	24" O.D. X 0.412" W.T. X-70, FBE

APPROVED FOR CONSTRUCTION	REV.	BY	DATE

Mountain Valley PIPELINE LLC

PIPELINE ALIGNMENT

MVP SOUTHGATE PROJECT - H-650 LINE

PITTSYLVANIA COUNTY, VIRGINIA

STA. 873+00 TO STA. 926+00

HORZ. SCALE: 1" = 200'

DRAWN BY: TRC 07/02/18

ENGINEERING CK:

CONSTRUCTION CK:

ENVIRONMENTAL CK:

AFE/P.O. NO.:

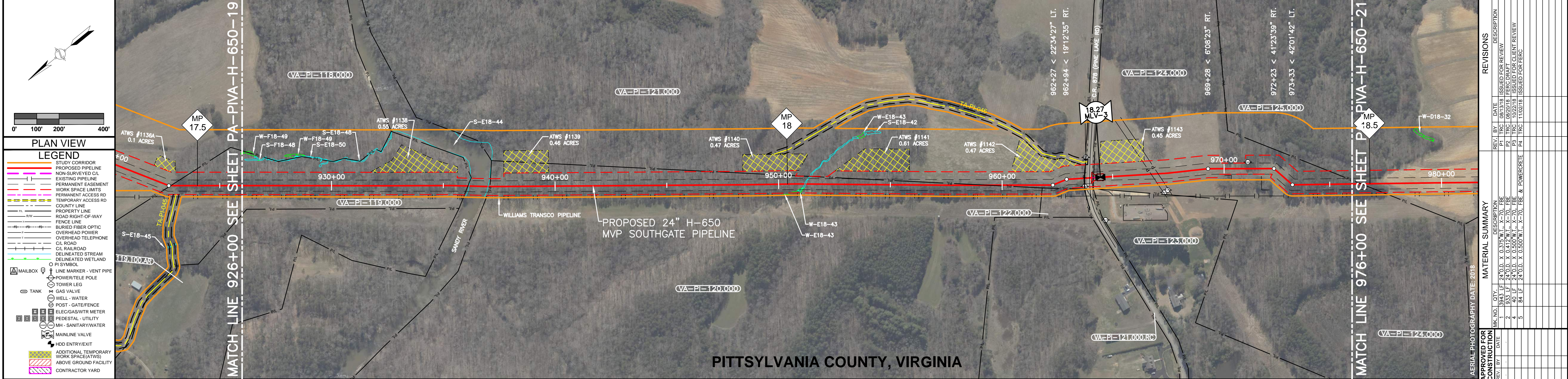
TRC PROJECT NO.: 300423

DRAWING NO.: PA-PVA-H-650-19

SHEET: 19 OF 77 REV. P4

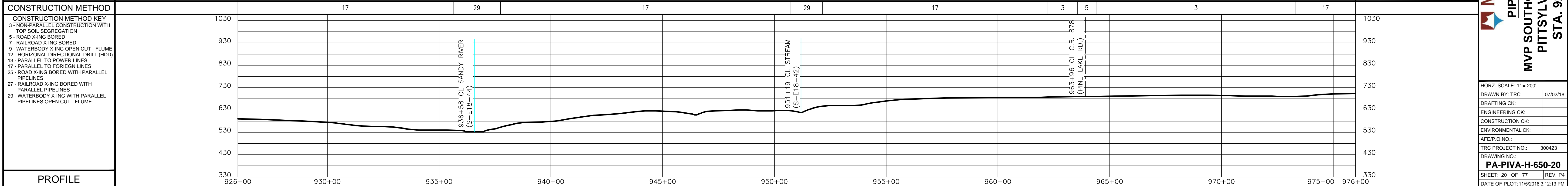
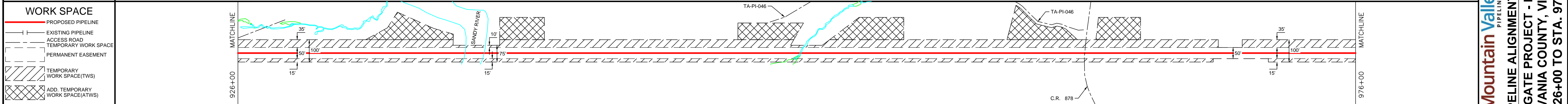
DATE OF PLOT: 11/15/2018 3:11:46 PM

RIGHT-OF-WAY & OWNERSHIP DATA		VA-PI-119.000	VA-PI-120.000	VA-PI-121.000	VA-PI-121.000.RC	VA-PI-124.000
DESIGN	PIPE / COATING	1010 LF	2223 LF	443 LF	40 LF	1185 LF
DESIGN	SLOPE DISTANCE					
DESIGN	CLASS LOCATION / HCA					
ENVIRONMENTAL	CONSTRUCTION EXCLUSION					
ENVIRONMENTAL	WETLAND / STREAM		S-E18-44 85 LF	S-E18-42 6 LF		



DRAWING NO.	DESCRIPTION
XX-XXXX-1100-01	PROPOSED MAINLINE VALVE FLOT PLAN

HORIZONTAL STATIONING	926+00 MATCH LINE	936+10 PROPERTY LINE (S-E18-44)	936+15 BEGIN SANDY RIVER (S-E18-44)	937+00 END SANDY RIVER (S-E18-44)	937+09 PROPERTY LINE	951+16 BEGIN STREAM (S-E18-42)	951+22 END STREAM (S-E18-42)	959+32 PROPERTY LINE	976+00 MATCH LINE
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CONSTRUCTION METHOD		17	29	17	29	17	3	5	3	17	
CONSTRUCTION METHOD KEY		<ul style="list-style-type: none"> 3 - NON-PARALLEL CONSTRUCTION WITH TOP SOIL SEGREGATION 5 - ROAD X-ING BORED 7 - RAILROAD X-ING BORED 9 - WATERBODY X-ING OPEN CUT - FLUME 12 - HORIZONTAL DIRECTIONAL DRILL (HDD) 17 - PARALLEL TO POWER LINES 25 - PARALLEL TO FOREIGN LINES 26 - 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		<p>926+00 930+00 935+00 940+00 945+00 950+00 955+00 960+00 965+00 970+00 975+00 976+00</p>									

ISSUED FOR FERC



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

Mountain Valley Pipeline LLC
PIPELINE ALIGNMENT
MVP SOUTHGATE PROJECT - H-650 LINE
PITTSYLVANIA COUNTY, VIRGINIA
STA. 926+00 TO STA. 976+00

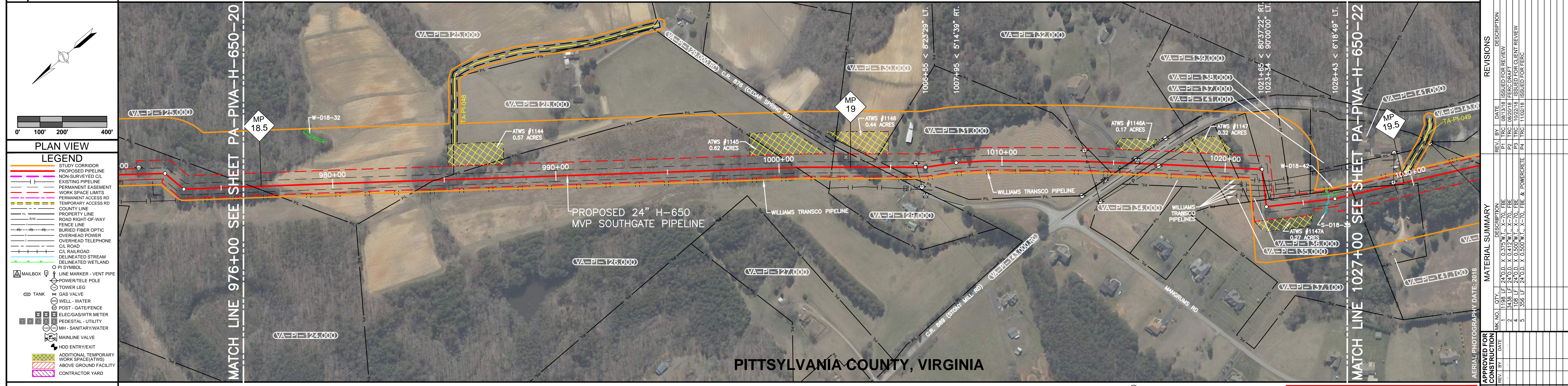
APPROVED FOR CONSTRUCTION
APPROVED FOR BIDDING

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-PVA-H-650-20
SHEET: 20 OF 77 REV. P4
DATE OF PLOT: 11/15/2018 3:12:13 PM

RIGHT-OF-WAY & OWNERSHIP DATA	VA-PI-124.000	VA-PI-125.000	VA-PI-126.000	VA-PI-128.000	VA-PI-129.000	VA-PI-129.000.RC	VA-PI-131.000	VA-PI-132.000	VA-PI-143.000.RC	VA-PI-134.000	VA-PI-135.000	VA-PI-136.000	VA-PI-137.000	VA-PI-136.000	VA-PI-137.100	
976+00	41 LF	818 LF	1621 LF	157 LF	202 LF	61 LF	942 LF	127 LF	101 LF	251 LF	118 LF	122 LF	31 LF	110 LF	398 LF	
DESIGN	PIPE / COATING	1		2		5		2		5		2		4		
SLOPE DISTANCE																
CLASS LOCATION / HCA	1		2		1				2						3	
ENVIRONMENTAL	CONSTRUCTION EXCLUSION															
WETLAND / STREAM																
													S-D18-38			
													4 LF			



REFERENCE DRAWINGS	DRAWING NO.	DESCRIPTION																														
HORIZONTAL STATIONING	976+00 MATCH LINE	976+41 PROPERTY LINE	984+59 PROPERTY LINE	1000+80 PROPERTY LINE	1002+37 PROPERTY LINE	1004+22 EDGE OF ROAD	1004+38 CL C.R. 876 (CEDAR SPRING RD)	1004+39 PROPERTY LINE	1004+55 EDGE OF ROAD	1005+00 PROPERTY LINE	1006+17 OVERHEAD POWER LINE	1013+85 OVERHEAD POWER LINE	1014+42 PROPERTY LINE	1015+60 EDGE OF ROAD	1015+62 EDGE OF ROAD	1015+69 PROPERTY LINE	1015+70 OVERHEAD POWER LINE	1016+20 CL C.R. 869 (STONY MILL RD) (ASPHALT)	1016+39 EDGE OF ROAD	1016+70 PROPERTY LINE	1017+13 OVERHEAD POWER LINE	1019+21 PROPERTY LINE	1020+39 PROPERTY LINE	1021+61 PROPERTY LINE	1021+92 PROPERTY LINE	1022+39 WILLIAMS TRANSCO PIPELINE	1022+62 WILLIAMS TRANSCO PIPELINE	1022+84 WILLIAMS TRANSCO PIPELINE	1023+02 PROPERTY LINE	1026+12 BEGIN STREAM (S-D18-38)	1026+16 END STREAM (S-D18-38)	1027+00 MATCH LINE
WORK SPACE			TA-PI-048																													
CONSTRUCTION METHOD	1120				17					25				17						25		17							29		17	1120
PROFILE	420																														420	

REV. NO.	DATE	DESCRIPTION
1	08/31/18	ISSUED FOR REVIEW
2	09/20/18	FERC DRAWING CLIENT REVIEW
3	10/22/18	REVISED PER COMMENTS
4	11/02/18	ISSUED FOR FERC
5	02/28/19	ISSUED FOR FERC

APPROVED FOR CONSTRUCTION	DATE

APPROVED FOR BIDDING	DATE

ISSUED FOR FERC

PIPELINE ALIGNMENT

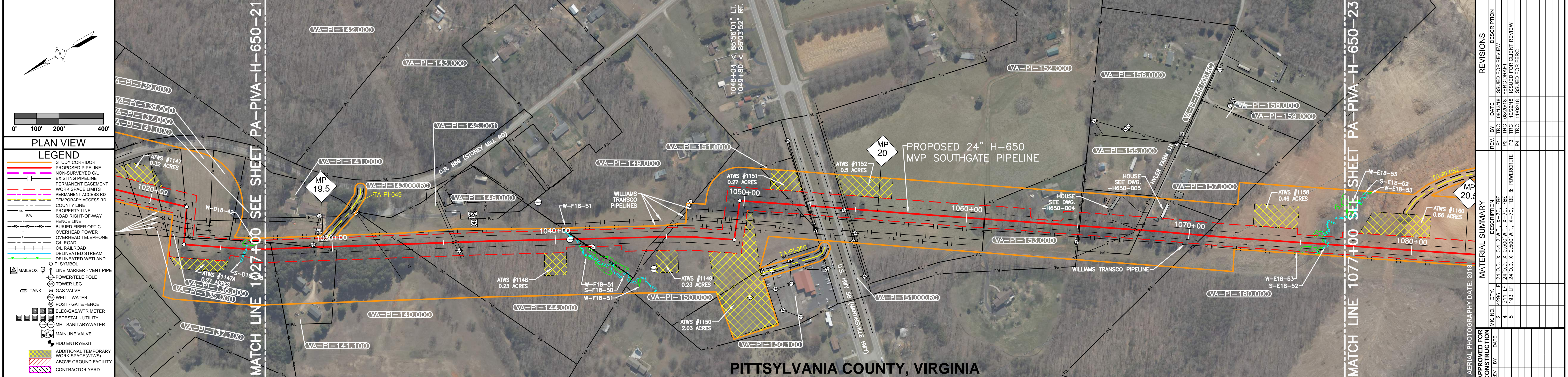
MVP SOUTHGATE PROJECT - H-650 LINE

PITTSYLVANIA COUNTY, VIRGINIA

STA. 976+00 TO STA. 1027+00

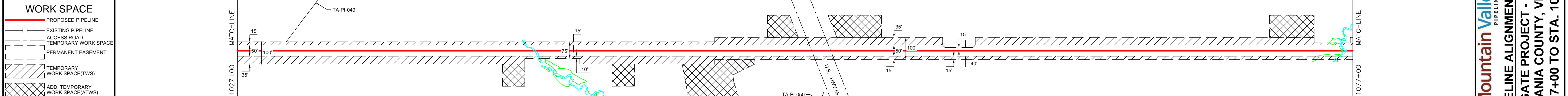
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	ENGINEERING CK:	
	CONSTRUCTION CK:	
	ENVIRONMENTAL CK:	
	AFE/PO NO.:	
	TRC PROJECT NO.:	300423
	DRAWING NO.:	PA-PIVA-H-650-21
	SHEET: 21 OF 77	REV P4
	DATE OF PLOT: 11/15/2018 3:12:28 PM	

RIGHT-OF-WAY & OWNERSHIP DATA		VA-PI-137.100	VA-PI-141.100	VA-PI-140.000	VA-PI-144.000	VA-PI-149.000	VA-PI-150.000	VA-PI-151.000	VA-PI-151.000.RC	VA-PI-152.000	VA-PI-153.000	VA-PI-154.000	VA-PI-154.200	VA-PI-160.000	
PIPE / COATING		28 LF	188 LF	403 LF	780 LF	398 LF	726 LF	61 LF	172 LF	626 LF	427 LF	273 LF	286 LF	632 LF	
SLOPE DISTANCE		4				2		4	5			2			
CLASS LOCATION / HCA		3				2			3			2			
CONSTRUCTION EXCLUSION															
WETLAND / STREAM					S-F18-50 9 LF							W-E18-53 6 LF	S-E18-52 9 LF	W-E18-53 3 LF	S-E18-52 4 LF



REFERENCE DRAWINGS	DESCRIPTION
RSS-H650-004	RESIDENTIAL SITE SPECIFIC
RSS-H650-005	RESIDENTIAL SITE SPECIFIC

HORIZONTAL STATIONING	DESCRIPTION
1027+00	MATCH LINE
1027+28	PROPERTY LINE
1029+16	PROPERTY LINE
1029+17	OVERHEAD POWER LINE
1032+08	OVERHEAD POWER LINE
1033+19	PROPERTY LINE
1035+47	OVERHEAD TRANSMISSION LINE
1035+62	OVERHEAD TRANSMISSION LINE
1040+88	BEGIN STREAM (S-F18-50)
1040+93	PROPERTY LINE (S-F18-50)
1041+03	FENCE, 5' WIRE
1044+60	FENCE, 6' ELECTRIC
1044+97	PROPERTY LINE
1048+54	WILLIAMS TRANSCO PIPELINE
1048+69	WILLIAMS TRANSCO PIPELINE
1049+30	WILLIAMS TRANSCO PIPELINE
1052+23	PROPERTY LINE
1052+80	FENCE, 5' WIRE
1052+84	PROPERTY LINE
1052+85	OVERHEAD POWER LINE
1053+03	EDGE OF ROAD
1053+20	CL U.S. HWY 58 (ASPHALT)
1053+32	EDGE OF ROAD
1053+66	CL DITCH
1054+05	CL U.S. HWY 58 (ASPHALT)
1054+20	EDGE OF ROAD
1054+46	OVERHEAD POWER LINE
1054+56	PROPERTY LINE
1054+67	FENCE, 4' WOOD
1060+77	FENCE, 4' WOOD
1060+82	PROPERTY LINE
1065+04	FENCE, 4' WOOD
1065+09	PROPERTY LINE
1067+54	EDGE OF ROAD
1067+57	OVERHEAD POWER LINE
1067+89	CL ROAD (DOD)
1067+89	CL ROAD (DOD)
1067+82	PROPERTY LINE
1067+85	CL HYLER FARM LN (GRAVEL)
1067+91	EDGE OF ROAD
1070+68	PROPERTY LINE
1076+06	BEGIN WETLAND (W-E18-53)
1076+12	END WETLAND (W-E18-53)
1076+12	BEGIN STREAM (S-E18-52)
1076+21	END STREAM (S-E18-52)
1076+24	END WETLAND (W-E18-53)
1076+24	BEGIN WETLAND (W-E18-53)
1076+28	BEGIN STREAM (S-E18-52)
1076+28	END STREAM (S-E18-52)
1077+00	MATCH LINE



CONSTRUCTION METHOD	DESCRIPTION
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)
17	PARALLEL TO POWER LINES
17	PARALLEL TO FOREIGN LINES
25	ROAD X-ING BORED WITH PARALLEL PIPELINES
27	RAILROAD X-ING BORED WITH PARALLEL PIPELINES
29	WATERBODY X-ING WITH PARALLEL PIPELINES OPEN CUT - FLUME

PROFILE	STATIONING	ELEVATION (FEET)
	1027+00	710
	1030+00	710
	1035+00	710
	1040+00	710
	1045+00	710
	1050+00	710
	1055+00	710
	1060+00	710
	1065+00	710
	1070+00	710
	1075+00	710
	1077+00	710



REVISIONS	REV. NO.	DATE	DESCRIPTION
	1	08/13/18	ISSUED FOR REVIEW
	2	08/20/18	FERC DRAWING CLIENT REVIEW
	3	08/20/18	FERC DRAWING CLIENT REVIEW
	4	08/20/18	FERC DRAWING CLIENT REVIEW
	5	11/02/18	ISSUED FOR FERC

APPROVED FOR CONSTRUCTION	DATE

APPROVED FOR BIDDING	DATE

Mountain Valley PIPELINE LLC
PIPELINE ALIGNMENT
MVP SOUTHGATE PROJECT - H-650 LINE
PITTSYLVANIA COUNTY, VIRGINIA
STA. 1027+00 TO STA. 1077+00

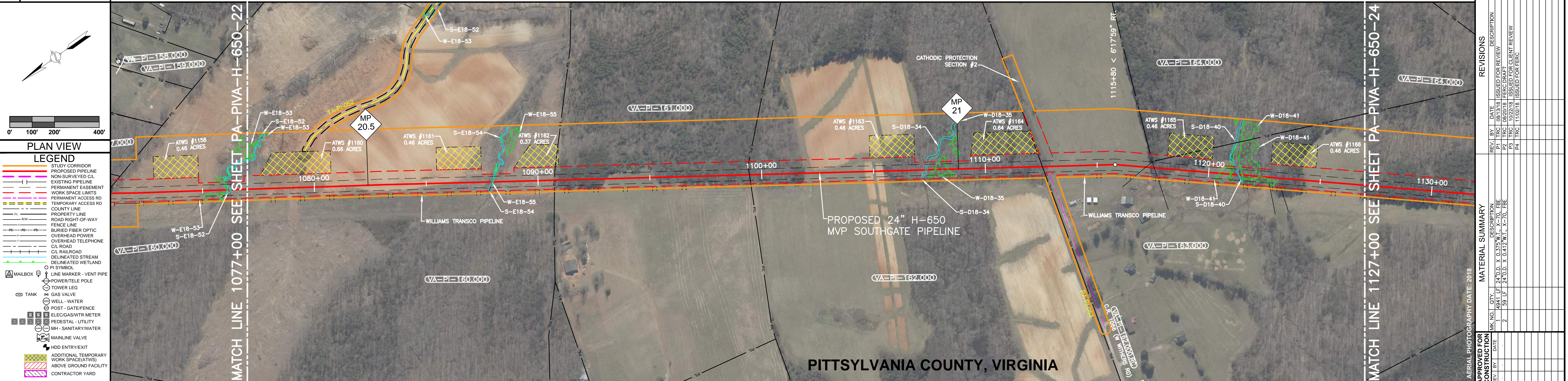
HORIZ. SCALE: 1" = 200'

DRAWN BY: TRC 07/02/18
 DRAFTING CK:
 ENGINEERING CK:
 CONSTRUCTION CK:
 ENVIRONMENTAL CK:

AFE/P.O. NO.:
 TRC PROJECT NO.: 300423
 DRAWING NO.:
PA-PIVA-H-650-22
 SHEET: 22 OF 77 REV. P4
 DATE OF PLOT: 11/15/2018 3:12:44 PM

ISSUED FOR FERC

RIGHT-OF-WAY & OWNERSHIP DATA	DESIGN	ENVIRONMENTAL
PIPE / COATING	2	
SLOPE DISTANCE	2	
CLASS LOCATION / HCA	1	
CONSTRUCTION EXCLUSION		
WETLAND / STREAM	S-E18-54 6 LF	W-E18-55 3 LF
	S-D18-34 7 LF	W-D18-35 54 LF
		W-D18-41 54 LF
		S-D18-40 5 LF
		W-D18-41 82 LF



REFERENCE DRAWINGS

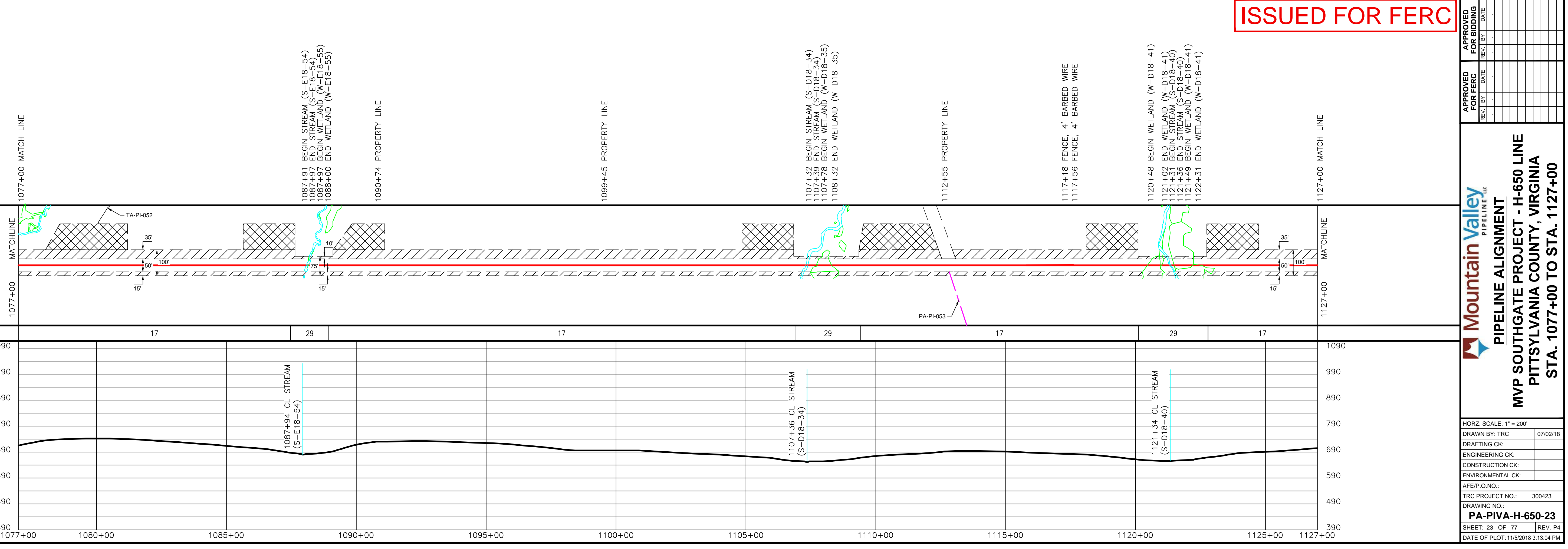
DRAWING NO.	DESCRIPTION

HORIZONTAL STATIONING

WORK SPACE

CONSTRUCTION METHOD

DRAWING NO.	DESCRIPTION



ISSUED FOR FERC

PROFILE

TRC
Results you can rely on

REVISIONS

REV. BY	DATE	DESCRIPTION
P1 TRC	08/03/18	ISSUED FOR REVIEW
P2 TRC	08/20/18	FERC DRAFTER CLIENT REVIEW
P4 TRC	11/02/18	ISSUED FOR FERC

MATERIAL SUMMARY

WKS. NO.	QTY.	DESCRIPTION
1	4841 LF	24" O.D. X 0.375" W.T. X-70, FBE
2	59 LF	24" O.D. X 0.412" W.T. X-70, FBE

APPROVED FOR CONSTRUCTION

REV. BY	DATE	DESCRIPTION

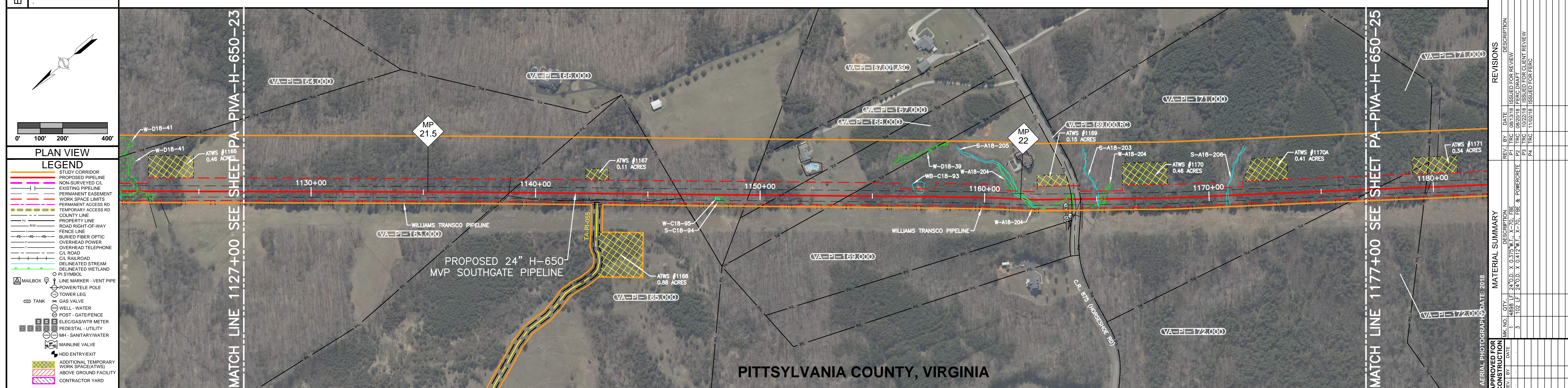
APPROVED FOR FERC

REV. BY	DATE	DESCRIPTION

Mountain Valley PIPELINE LLC
PIPELINE ALIGNMENT
MVP SOUTHGATE PROJECT - H-650 LINE
PITTSYLVANIA COUNTY, VIRGINIA
STA. 1077+00 TO STA. 1127+00

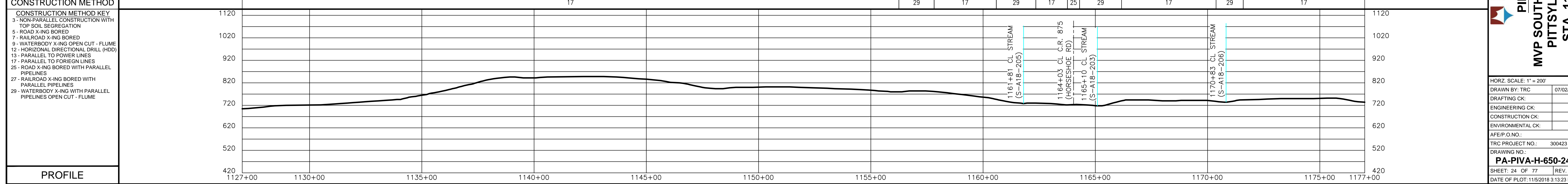
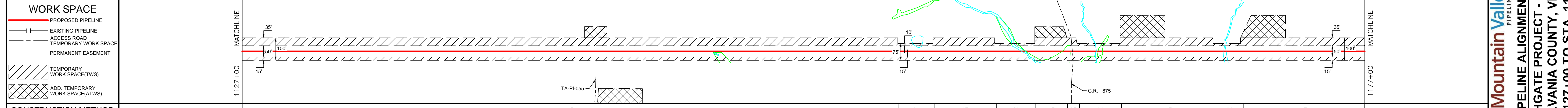
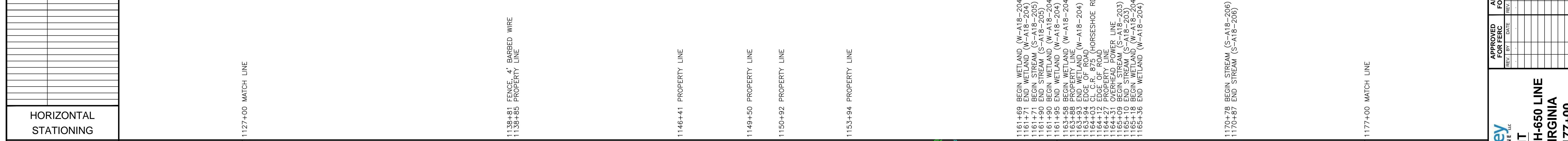
PA-PIVA-H-650-23
SHEET: 23 OF 77 REV. P4
DATE OF PLOT: 11/15/2018 3:13:04 PM

RIGHT-OF-WAY & OWNERSHIP DATA		VA-PI-163.000	VA-PI-165.000	VA-PI-166.000	VA-PI-167.000	VA-PI-168.000	VA-PI-169.000	VA-PI-169.000.RC	VA-PI-171.000	
		1185 LF	756 LF	309 LF	142 LF	302 LF	994 LF	39 LF	1273 LF	
DESIGN										
PIPE / COATING										
SLOPE DISTANCE										
CLASS LOCATION / HCA		1								
ENVIRONMENTAL										
CONSTRUCTION EXCLUSION										
WETLAND / STREAM				W-A18-204	S-A18-205	W-A18-204	W-A18-204	S-A18-203	W-A18-204	S-A18-206
				2 LF	19 LF	5 LF	35 LF	1 LF	18 LF	9 LF



REFERENCE DRAWINGS	
DRAWING NO.	DESCRIPTION

ISSUED FOR FERC



Mountain Valley Pipeline LLC
PIPELINE ALIGNMENT
MVP SOUTHGATE PROJECT - H-650 LINE
PITTSYLVANIA COUNTY, VIRGINIA
STA. 1127+00 TO STA. 1177+00

TRC
 Results you can rely on

REVISIONS

REV. NO.	DATE	DESCRIPTION
P1	08/13/18	ISSUED FOR REVIEW
P2	08/20/18	FERC DRAG CLIENT REVIEW
P3	11/02/18	ISSUED FOR FERC

MATERIAL SUMMARY

WK. NO.	QTY.	DESCRIPTION
1	4896 LF	24" O.D. X 0.375" W.T. X-70, FBE & POWDERCOATE
3	102 LF	24" O.D. X 0.412" W.T. X-70, FBE & POWDERCOATE

APPROVED FOR CONSTRUCTION

REV. BY	DATE	DESCRIPTION

APPROVED FOR FERC

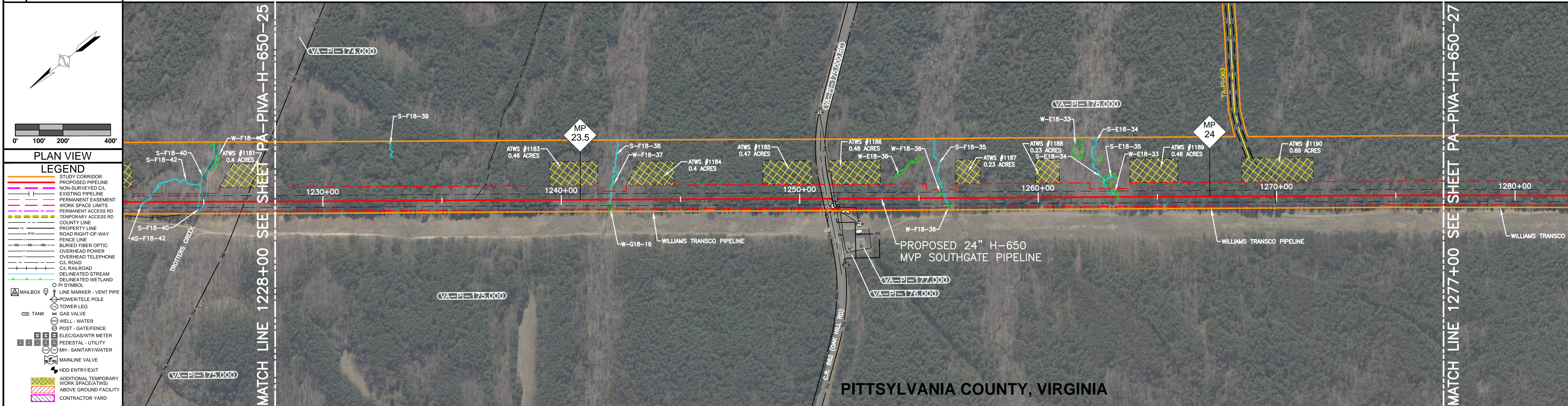
REV. BY	DATE	DESCRIPTION

DATE OF PLOT: 11/15/2018 3:13:23 PM

DRAWN BY: TRC 07/02/18
ENGINEERING CK:
CONSTRUCTION CK:
ENVIRONMENTAL CK:

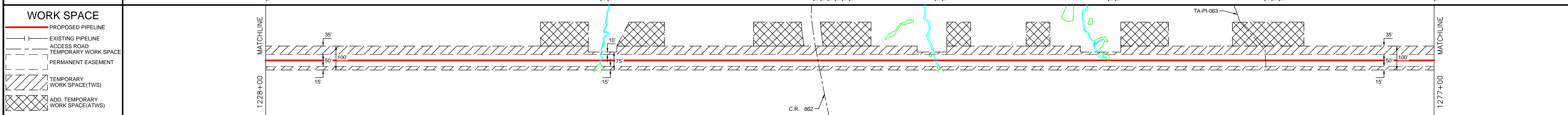
TRC PROJECT NO.: 300423
DRAWING NO.: PA-PIVA-H-650-24
SHEET: 24 OF 77 REV P4

RIGHT-OF-WAY & OWNERSHIP DATA	1228+00	1228+00	VA-PI-175.000	2296 LF	1250+96	1250+96	VA-PI-175.000.RC	41 LF	1251+37	1251+37	VA-PI-178.000	2563 LF	1277+00	1277+00
DESIGN	PIPE / COATING			7				5				7		
	SLOPE DISTANCE													
	CLASS LOCATION / HCA													
ENVIRONMENTAL	CONSTRUCTION EXCLUSION													
	WETLAND / STREAM			S-F18-38				S-F18-35				W-E18-33		
				4 LF				7 LF				6 LF		

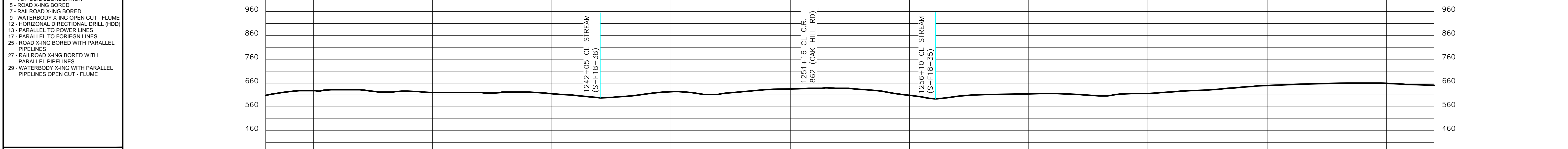


REFERENCE DRAWINGS	DRAWING NO.	DESCRIPTION

HORIZONTAL STATIONING



CONSTRUCTION METHOD



PROFILE

ISSUED FOR FERC



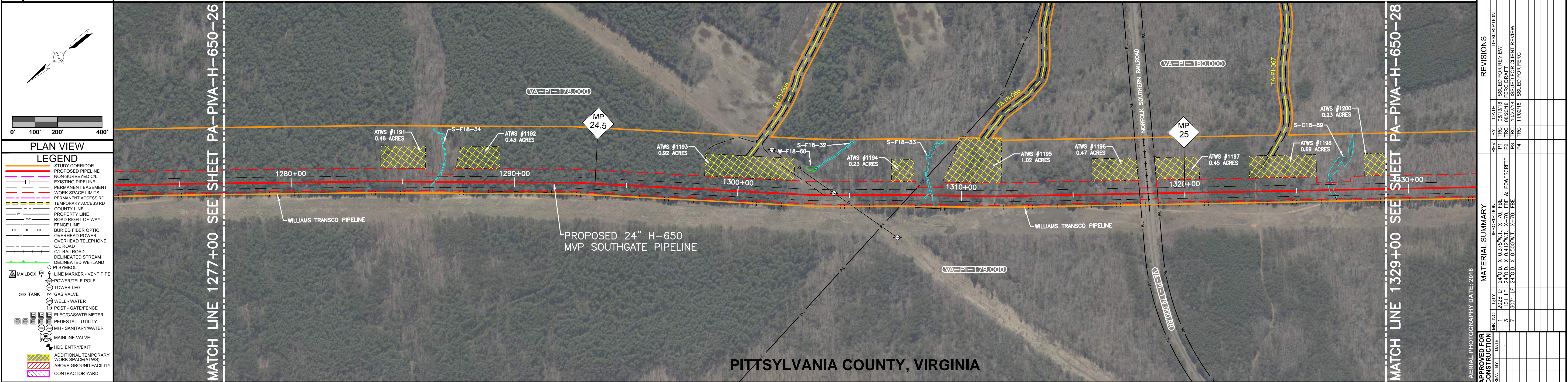
REVISIONS	
REV. BY	DESCRIPTION
P1	ISSUED FOR REVIEW
P2	FERC DRAG CLIENT REVIEW
P3	ISSUED FOR FERC
P4	ISSUED FOR FERC

APPROVED FOR CONSTRUCTION	
REV. BY	DATE

Mountain Valley PIPELINE LLC
PIPELINE ALIGNMENT
MVP SOUTHGATE PROJECT - H-650 LINE
PITTSYLVANIA COUNTY, VIRGINIA
STA. 1228+00 TO STA. 1277+00

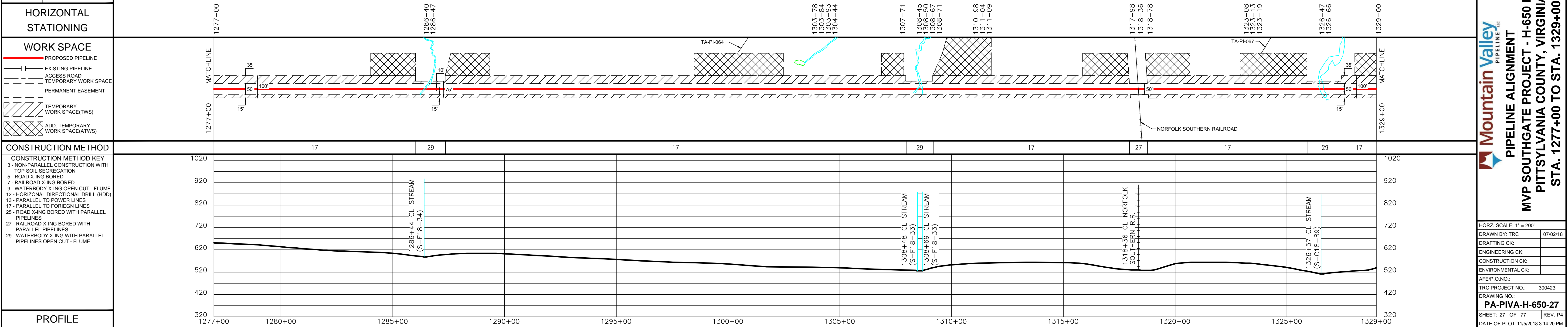
HORZ. SCALE: 1" = 200'
 DRAWN BY: TRC 07/02/18
 DRAFTING CK:
 ENGINEERING CK:
 CONSTRUCTION CK:
 ENVIRONMENTAL CK:
 AFE/P.O. NO.:
 TRC PROJECT NO.: 300423
 DRAWING NO.:
PA-PIVA-H-650-26
 SHEET: 26 OF 77 REV. P4
 DATE OF PLOT: 11/20/18 3:13:58 PM

RIGHT-OF-WAY & OWNERSHIP DATA	VA-PI-178.000	3071 LF	VA-PI-179.000	1027 LF	VA-PI-179.000.RR	80 LF	VA-PI-180.000	1022 LF
DESIGN	PIPE / COATING	7	1	3	1			
ENVIRONMENTAL	CONSTRUCTION EXCLUSION	1						
	WETLAND / STREAM	S-F18-34 7 LF	S-F18-33 5 LF	S-F18-33 4 LF	S-C18-89 19 LF			

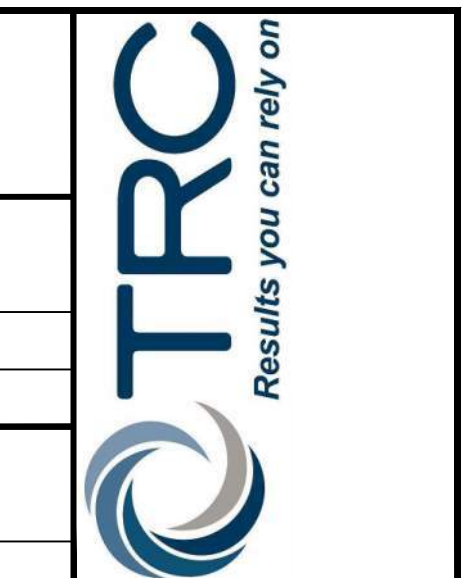


DRAWING NO.	DESCRIPTION

ISSUED FOR FERC



PROFILE	1277+00	1280+00	1285+00	1290+00	1295+00	1300+00	1305+00	1310+00	1315+00	1320+00	1325+00	1329+00	
	CONSTRUCTION METHOD KEY												
	3 - NON-PARALLEL CONSTRUCTION WITH TOP SOIL SEGREGATION												
	5 - ROAD X-ING BORED												
7 - RAILROAD X-ING BORED													
9 - WATERBODY X-ING OPEN CUT - FLUME													
12 - HORIZONTAL DIRECTIONAL DRILL (HDD)													
13 - PARALLEL TO POWER LINES													
17 - PARALLEL TO FOREIGN LINES													
25 - ROAD X-ING BORED WITH PARALLEL PIPELINES													
27 - RAILROAD X-ING BORED WITH PARALLEL PIPELINES													
29 - WATERBODY X-ING WITH PARALLEL PIPELINES OPEN CUT - FLUME													



REVISONS	
REV. NO.	DATE
P1	08/13/18
P2	08/20/18
P3	08/29/18
P4	11/02/18

APPROVED FOR CONSTRUCTION	
REV. BY	DATE

Mountain Valley PIPELINE LLC

PIPELINE ALIGNMENT

MVP SOUTHGATE PROJECT - H-650 LINE

PITTSYLVANIA COUNTY, VIRGINIA

STA. 1277+00 TO STA. 1329+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-PIVA-H-650-27**

SHEET: 27 OF 77 | REV. P4

DATE OF PLOT: 11/15/2018 3:14:20 PM

