RIGHT-OF-WAY & OWNERSHIP DATA

Station	Owner	Length
7906+60 – 7913+87	WV-GR-051	727 LF, 728 SLOPE
7913+87 – 7918+22	WV-GR-053	435 LF, 444 SLOPE
7918+22 – 7940+52	WV-GR-054	2230 LF, 2248 SLOPE
7940+52 – 7941+87	WV-GR-054 / WV-GR-055	135 LF, 136 SLOPE
7941+87 – 7943+56	WV-GR-055	169 LF, 174 SLOPE
7943+56 – 7944+14	COUNTY ROUTE 24 / WV-GR-055	58 LF, 61 SLOPE
7944+14 – 7944+38	WV-GR-055	24 LF, 25 SLOPE
7944+38 – 7944+99	WV-GR-056 / WV-GR-055	61 LF, 61 SLOPE
7944+99 – 7966+10	WV-GR-056	2111 LF, 2154 SLOPE

DESIGN

	7906+60 – 7943+60	7943+60 – 7944+00	7944+00 – 7966+10
PIPE / COATING	1	4	1
SLOPE DISTANCE	3735'	40'	2256'
CLASS LOCATION / HCA	1	1	1

ENVIRONMENTAL

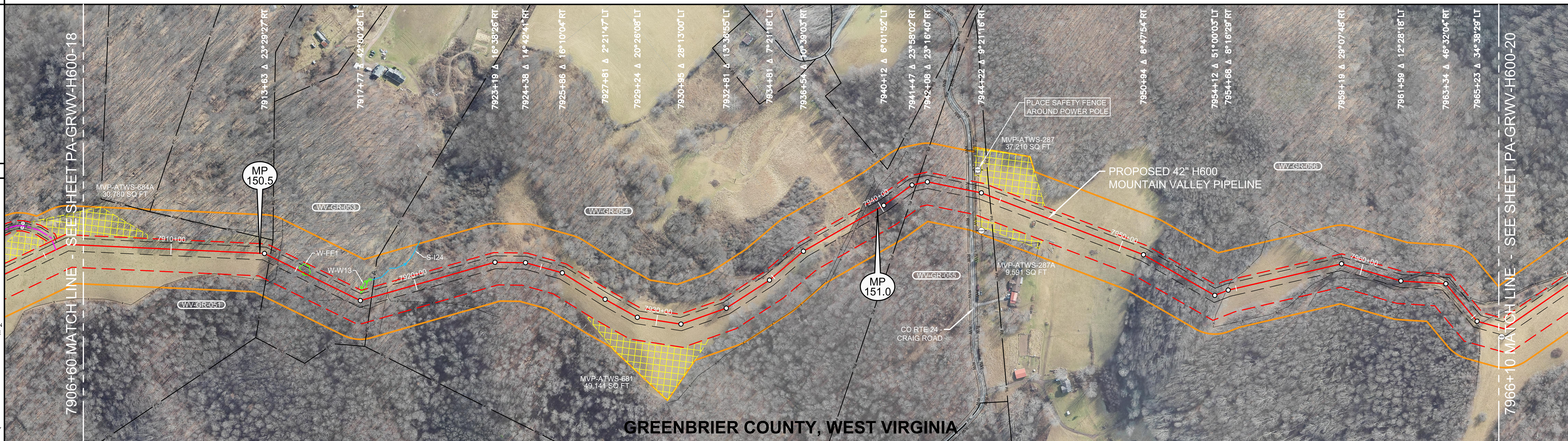
CONSTRUCTION EXCLUSION	
WETLAND / STREAM	W-FF1 49 LF; W-W13 13 LF
.	
.	

0' 100' 200' 400'

PLAN VIEW

LEGEND

- STUDY CORRIDOR
- PROPOSED 42"PIPELINE
- NON-SURVEYED C/L
- 500' TICK MARK
- EXISTING PIPELINE
- PERMANENT EASEMENT
- WORK SPACE LIMITS
- PERMANENT ACCESS RD
- TEMPORARY ACCESS RD
- ANCILLARY SITE
- COUNTY LINE
- PROPERTY LINE
- ROAD RIGHT-OF-WAY
- FENCE LINE
- OVERHEAD POWER
- OVERHEAD TELEPHONE
- C/L ROAD
- C/L RAILROAD
- DELINEATED STREAM
- DELINEATED WETLAND
- BARRACADE FENCE
- PI SYMBOL
- PROPOSED TEST STATION
- MAILBOX
- LINE MARKER - VENT PIPE
- POWER/TELE POLE
- SIGN
- TOWER LEG
- TREE
- GUY ANCHOR
- TANK
- GAS VALVE
- WELL - GAS/OIL/WATER/MONITORING
- POST - GATE/FENCE
- ELEC/GAS/WTR METER
- PEDESTAL - UTILITY
- MH - SANITARY/WATER
- CATCH BASIN - CULVERT
- ADDITIONAL TEMPORARY WORK SPACE(ATWS)
- ABOVE GROUND FACILITY
- LIMITS OF DISTURBANCE



REFERENCE DRAWINGS

DRAWING NO.	DESCRIPTION

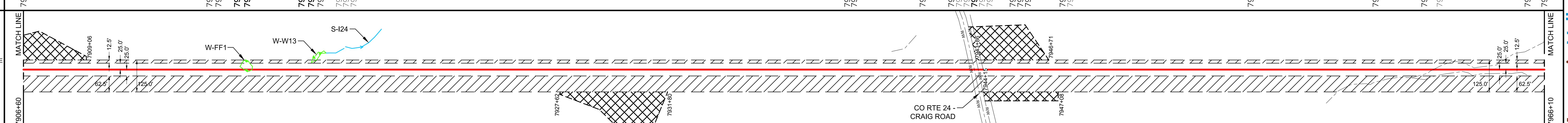
REV 4.0.0 - ISSUED TO FERC

HORIZONTAL STATIONING

- 7906+60 MATCH LINE
- 7913+87 PROPERTY LINE
- 7914+23 FENCE – BARBED WIRE
- **7915+06 BEGIN WETLAND(W–FF1)12'LT**
- **7915+56 END WETLAND(W–FF1)12'LT**
- **7917+60 BEGIN WETLAND(W–W13)37'LT**
- **7917+73 END WETLAND(W–W13)37'LT**
- 7918+22 PROPERTY LINE
- 7918+57 BUILDING – ANIMAL SHELTER 87'LT
- 7918+84 FENCE – BARBED WIRE
- 7918+87 FENCE – BARBED WIRE
- 7938+83 FENCE – BARBED WIRE
- 7939+09 FENCE – BARBED WIRE
- 7941+65 PROPERTY LINE
- 7943+65 RIGHT–OF–WAY
- 7943+72 EDGE OF GRAVEL
- 7943+74 EDGE OF ASPHALT
- **7943+80 ℄ CO RTE 24 – CRAIG RD**
- 7943+85 EDGE OF ASPHALT
- 7943+90 EDGE OF GRAVEL
- POWER POLE 84'LT
- PEDESTAL – TELEPHONE 84'LT
- 7943+96 RIGHT–OF–WAY
- 7943+99 FENCE – BARBED WIRE
- 7944+12 OHP LINE
- 7944+56 PROPERTY LINE
- 7946+58 BUILDING – SHED 30'RT
- 7954+61 FENCE – BARBED WIRE
- 7959+34 FENCE – BARBED WIRE
- 7961+40 FENCE – BARBED WIRE
- 7961+75 ℄ TRAIL(DIRT)
- 7965+44 FENCE – BARBED WIRE
- 7966+10 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

1

CONSTRUCTION METHOD KEY

1 - TYPICAL R/W CONFIGURATION
2 - TYPICAL R/W CONFIGURATION
3 - TYPICAL "SKINNEY" FOR WATER BODY
4 -
5 -
6 -
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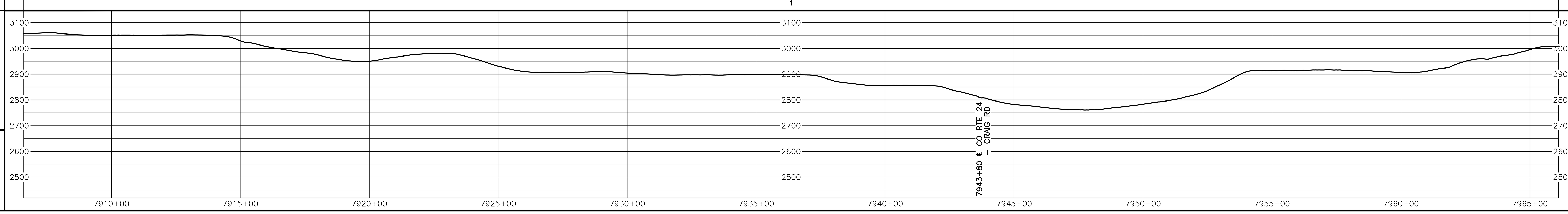
15 -
16 -

PROFILE



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www.hollandengineering.com

REVISIONS

REV.	BY	DATE	DESCRIPTION
0	HEI	10-15-15	REV 4.0.0 ISSUED TO FERC

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
1	5989	42"O.D. X 0.617"W.T., X-70, FUSION BONDED EPOXY
4	40	42"O.D. X 0.740"W.T., X-70, FBE & ARO
		TYPE 1 TEST STATION - PIPELINE
		TYPE 4 TEST STATION - FOREIGN CROSSING

APPROVED FOR CONSTRUCTION

REV.	BY	DATE
.	.	.

APPROVED FOR BIDDING

REV.	BY	DATE
.	.	.

APPROVED FOR FERC

REV.	BY	DATE
0	RRR	10-15-15

Mountain Valley PIPELINE

PIPELINE ALIGNMENT

MOUNTAIN VALLEY PROJECT - H600 LINE MEADOW BLUFF DIST., GREENBRIER CO.,W.V. STA. 7906+60 TO STA. 7966+10

HORZ. SCALE: 1" = 200'	
DRAWN BY: HEI(DRF)	02/17/15
DRAFTING CK:	.
ENGINEERING CK:	.
CONSTRUCTION CK:	.
ENVIRONMENTAL CK:.	.
AFE/P.O.NO.:	
HEI PROJECT NO.: 14-10-052	
DRAWING NO.: PA-GRWV-H600-19	
SHEET 166 OF 326	REV. 0
DATE OF PLOT: 04/19/16 12:21 PM	

RIGHT-OF-WAY & OWNERSHIP DATA

Station	Tract	Length
7966+10 – 7989+16	WV-GR-056	2306 LF / 2309 SLOPE
7989+16 – 8006+54	WV-GR-057	1738 LF / 1743 SLOPE
8006+54 – 8014+87	WV-GR-058	833 LF / 852 SLOPE
8014+87 – 8018+50	WV-GR-059 / WV-GR-058	363 LF / 364 SLOPE
8018+50 – 8020+60	WV-GR-058	210 LF / 211 SLOPE
8020+60 – 8021+66	WV-GR-058 / WV-GR-060	106 LF / 106 SLOPE
8021+66 – 8022+65	WV-GR-060	99 LF / 100 SLOPE
8022+65 – 8024+10	WV-GR-059 / WV-GR-060	145 LF / 145 SLOPE

DESIGN

	7966+10 – 8024+10
PIPE / COATING	1
SLOPE DISTANCE	5830'
CLASS LOCATION / HCA	1

ENVIRONMENTAL

CONSTRUCTION EXCLUSION	
WETLAND / STREAM	
.	
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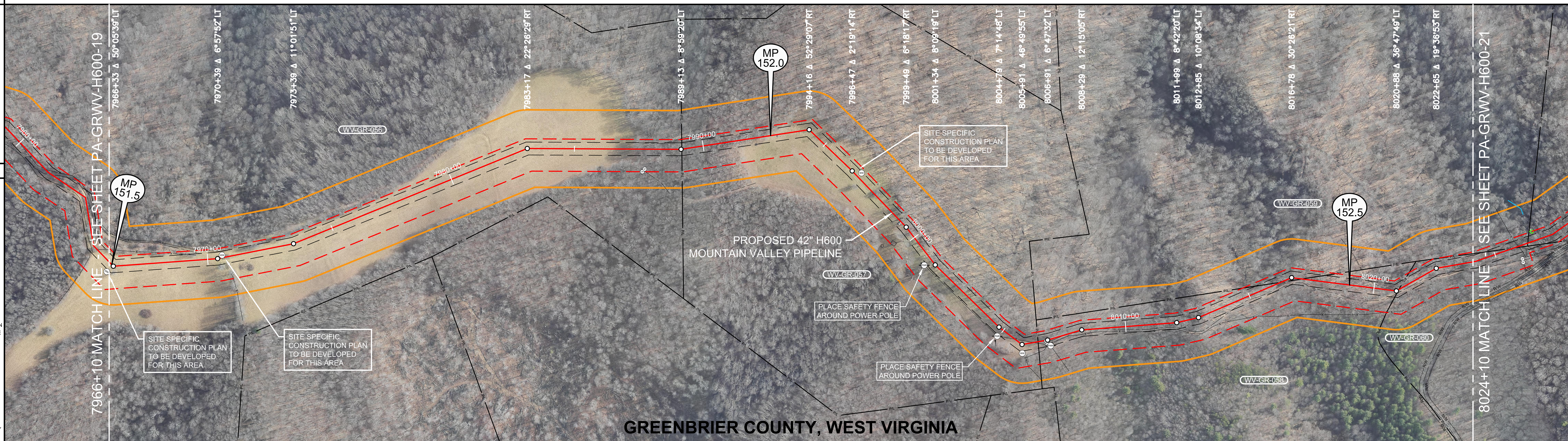
0' 100' 200' 400'

PLAN VIEW



LEGEND

- STUDY CORRIDOR
- PROPOSED 42"PIPELINE
- NON-SURVEYED C/L
- 500' TICK MARK
- EXISTING PIPELINE
- PERMANENT EASEMENT
- WORK SPACE LIMITS
- PERMANENT ACCESS RD
- TEMPORARY ACCESS RD
- ANCILLARY SITE
- COUNTY LINE
- PROPERTY LINE
- ROAD RIGHT-OF-WAY
- FENCE LINE
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- OVERHEAD TELEPHONE
- C/L ROAD
- C/L RAILROAD
- DELINEATED STREAM
- DELINEATED WETLAND
- BARRACADE FENCE
- PI SYMBOL / PROPOSED TEST STATION
- MAILBOX / LINE MARKER - VENT PIPE
- POWER/TELE POLE
- SIGN / TOWER LEG
- TREE / GUY ANCHOR
- TANK / GAS VALVE
- WELL - GAS/OIL/WATER/MONITORING
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- PEDESTAL - UTILITY
- MH - SANITARY/WATER
- CATCH BASIN - CULVERT
- ADDITIONAL TEMPORARY WORK SPACE(ATWS)
- ABOVE GROUND FACILITY
- LIMITS OF DISTURBANCE

REFERENCE DRAWINGS

DRAWING NO.	DESCRIPTION

REV 4.0.0 - ISSUED TO FERC

HORIZONTAL STATIONING

- 7966+10 MATCH LINE
- 7966+31 WELL - WATER 33'RT
- 7970+58 WELL - WATER 10'LT
- 7987+73 GATE POST 77'RT
- 7989+16 PROPERTY LINE
- 7996+78 WELL - WATER 21'LT
- 8000+94 GUY ANCHOR 38'RT
- 8001+00 BUILDING - OUTHOUSE 150'RT
- 8001+08 POWER POLE 34'RT
- 8004+94 POWER POLE 32'RT
- 8004+97 GUY ANCHOR 49'RT
- 8005+57 OHP LINE
- 8005+91 WELL - WATER 34'RT
- 8006+36 OHP LINE
- 8006+54 PROPERTY LINE
- 8006+85 FENCE - HOG WIRE
- 8006+85 GATE POST 3'RT
- 8006+88 GATE POST 16'RT
- 8006+97 POWER POLE 24'RT
- 8007+70 ℄ FIELD ROAD(DIRT)
- 8007+78 ℄ FIELD ROAD(DIRT)
- 8016+33 PROPERTY LINE
- 8017+19 PROPERTY LINE
- 8020+92 ℄ FIELD ROAD(DIRT)
- 8020+99 PROPERTY LINE
- 8024+10 MATCH LINE

WORK SPACE

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

MATCH LINE 7966+10 — 12.5' 25.0' 25.0' 62.5' 125.0' — 125.0' 62.5' 25.0' 25.0' 12.5' — MATCH LINE 8024+10

CONSTRUCTION METHOD

1

CONSTRUCTION METHOD KEY
1 - TYPICAL R/W CONFIGURATION
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15 -
16 -

PROFILE

Elevations: 3100, 3000, 2900, 2800, 2700, 2600, 2500
Stations: 7970+00, 7975+00, 7980+00, 7985+00, 7990+00, 7995+00, 8000+00, 8005+00, 8010+00, 8015+00, 8020+00

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REVISIONS

REV.	BY	DATE	DESCRIPTION
0	HEI	10-15-15	REV 4.0.0 ISSUED TO FERC

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
1	5830	42"O.D. X 0.617"W.T., X-70, FUSION BONDED EPOXY
		TYPE 1 TEST STATION - PIPELINE
		TYPE 4 TEST STATION - FOREIGN CROSSING

APPROVED FOR CONSTRUCTION	REV.	BY	DATE
	.	.	.

APPROVED FOR BIDDING	REV.	BY	DATE
	.	.	.

APPROVED FOR FERC	REV.	BY	DATE
	0	RRR	10-15-15

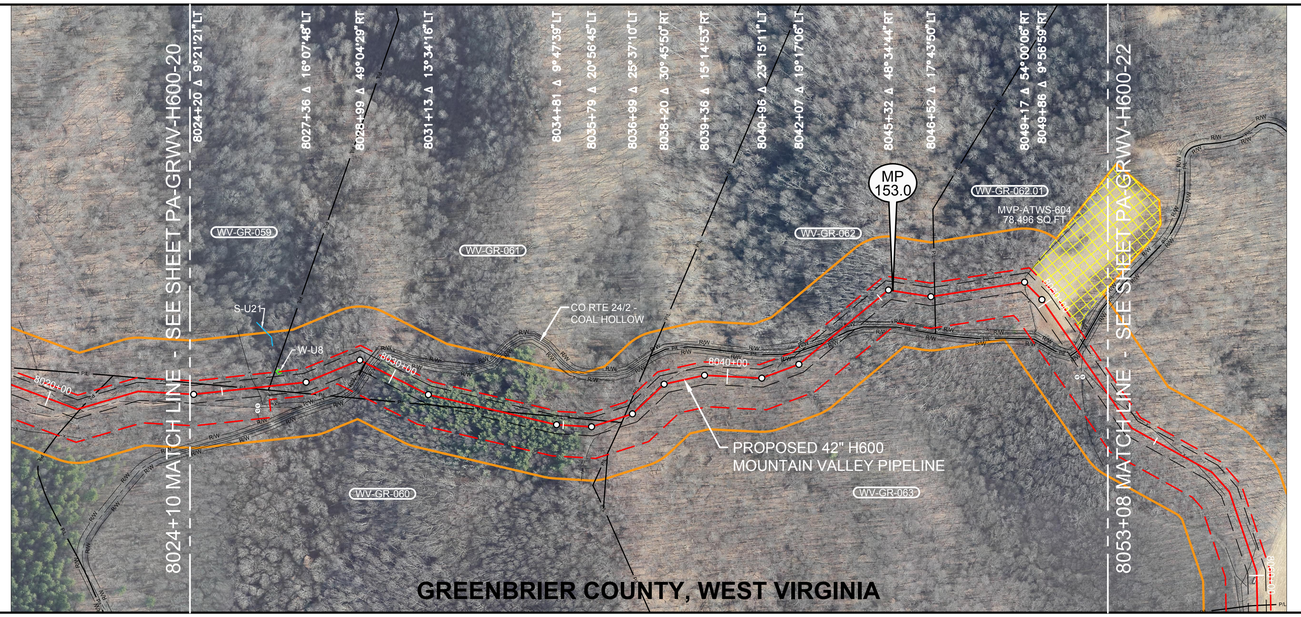
Mountain Valley PIPELINE

PIPELINE ALIGNMENT
MOUNTAIN VALLEY PROJECT - H600 LINE MEADOW BLUFF DIST., GREENBRIER CO.,W.V. STA. 7966+10 TO STA. 8024+10

HORZ. SCALE: 1" = 200'	
DRAWN BY: HEI(DRF)	02/17/15
DRAFTING CK:	.
ENGINEERING CK:	.
CONSTRUCTION CK:	.
ENVIRONMENTAL CK:	.
AFE/P.O.NO.:	
HEI PROJECT NO.: 14-10-052	
DRAWING NO.: PA-GRWV-H600-20	
SHEET 167 OF 326	REV. 0
DATE OF PLOT: 04/19/16 12:22 PM	

RIGHT-OF-WAY & OWNERSHIP DATA

		8024+10	8025+29	8026+52	8027+40	8028+92	8029+67	8035+97	8036+53	8037+41	8041+43	8048+03	8050+41	8051+76	8053+08
		WV-GR-059 / WV-GR-060	WV-GR-059 / WV-GR-061 / WV-GR-060	WV-GR-061 / WV-GR-060	WV-GR-061	WV-GR-061	WV-GR-061	WV-GR-061 / WV-GR-060 / WV-GR-063	WV-GR-061 / WV-GR-063	WV-GR-063	WV-GR-062 / COUNTY ROUTE 24/2 / WV-GR-063	WV-GR-062.01	WV-GR-062.01 / COUNTY ROUTE 24/2 / WV-GR-063	WV-GR-063	
		219 LF 219 SLOPE	23 LF 23 SLOPE	88 LF 91 SLOPE	152 LF 154 SLOPE	COUNTY ROUTE 24/2 75 LF 77 SLOPE	630 LF 636 SLOPE	66 LF 68 SLOPE	78 LF 78 SLOPE	402 LF 409 SLOPE	520 LF 528 SLOPE	378 LF 380 SLOPE	135 LF 140 SLOPE	132 LF 134 SLOPE	
DESIGN	PIPE / COATING	8024+10 1	8029+12 4	8029+52			1				8042+54 4	8043+74 1	8051+41 4	8051+61 1	8053+08
DESIGN	SLOPE DISTANCE	505'	40'		1336'						120'	686'	40'	130'	
DESIGN	CLASS LOCATION / HCA	1													
ENVIRONMENTAL	CONSTRUCTION EXCLUSION														
ENVIRONMENTAL	WETLAND / STREAM														
ENVIRONMENTAL	.														
ENVIRONMENTAL	.														



0' 100' 200' 400'

PLAN VIEW

LEGEND

- STUDY CORRIDOR
- PROPOSED 42"PIPELINE
- NON-SURVEYED C/L
- 500' TICK MARK
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- CATCH BASIN - CULVERT
- ADDITIONAL TEMPORARY WORK SPACE(ATWS)
- ABOVE GROUND FACILITY
- LIMITS OF DISTURBANCE

REFERENCE DRAWINGS

DRAWING NO.	DESCRIPTION

HORIZONTAL STATIONING

WORK SPACE

- PROPOSED PIPELINE
- EXISTING PIPELINE
- ACCESS ROAD TEMPORARY WORK SPACE
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CONSTRUCTION METHOD

CONSTRUCTION METHOD KEY
1 - TYPICAL R/W CONFIGURATION
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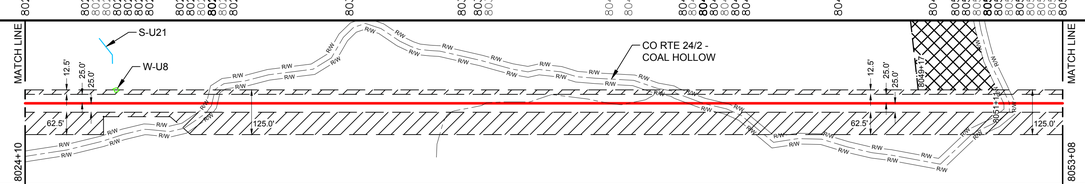
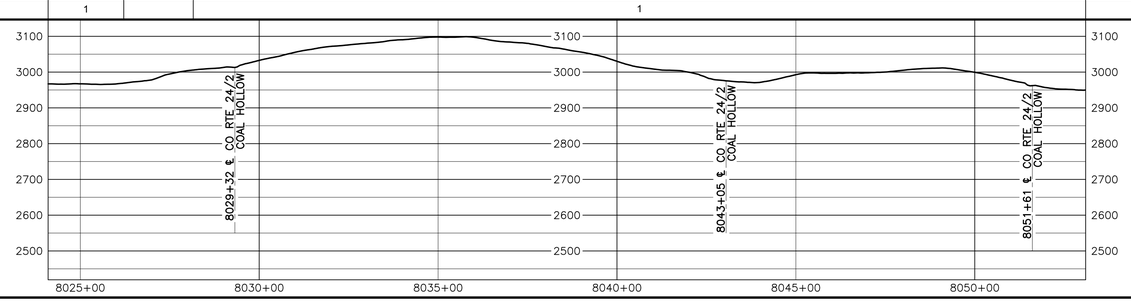


PROFILE



REV 4.0.0 - ISSUED TO FERC

AERIAL PHOTOGRAPHY DATE: APRIL 2015 & JANUARY 2016

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
1	2737	42"O.D. X 0.617"W.T. X 70 KSI FBE BONDED EPOXY
2	260	42"O.D. X 0.740"W.T. X 70 PRE & ARO
4		TYPE 1 TEST STATION - PIPELINE
		TYPE 4 TEST STATION - FOREIGN CROSSING

REVISIONS

REV.	BY	DATE	DESCRIPTION
0	HEI	10-15-15	REV 4.0.0 ISSUED TO FERC

APPROVED FOR FERC — REV. 0 HEI 10-15-15 | BY | DATE
APPROVED FOR BIDDING — REV. - | BY | DATE
APPROVED FOR CONSTRUCTION — REV. - | BY | DATE

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Mountain Valley PIPELINE

PIPELINE ALIGNMENT

MOUNTAIN VALLEY PROJECT - H600 LINE
MEADOW BLUFF DIST., GREENBRIER CO.,W.V.
STA. 8024+10 TO STA. 8053+08

HORZ. SCALE: 1" = 200'	
DRAWN BY: HEI(DRF)	02/17/15
DRAFTING CK:	.
ENGINEERING CK:	.
CONSTRUCTION CK:	.
ENVIRONMENTAL CK:	.
AFE/P.O.NO.:	
HEI PROJECT NO.:	14-10-052
DRAWING NO.:	PA-GRWV-H600-21
SHEET 168 OF 326	REV. 0
DATE OF PLOT: 04/19/16 12:22 PM	