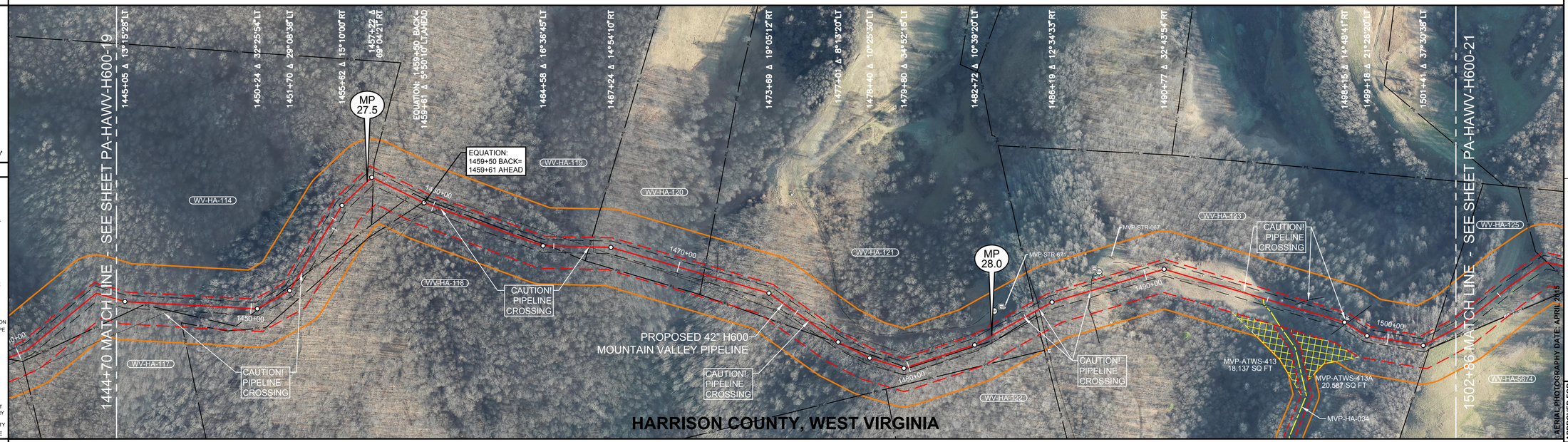
RIGHT-OF-WAY & OWNERSHIP DATA

		1444+70	WV-HA-114 / WV-HA-117 / WV-HA-118 241 LF 242 SLOPE	1447+11	WV-HA-114 / WV-HA-117 / WV-HA-118 581 LF 583 SLOPE	1452+92	WV-HA-114 / WV-HA-117 137 LF 137 SLOPE	1454+29	WV-HA-114 301 LF 304 SLOPE	1457+30	WV-HA-119 115 LF 115 SLOPE	1458+45	WV-HA-119 / WV-HA-117 49 LF 50 SLOPE	1458+95 EQUATION:1459+50 BACK= 1459+61 AHEAD	WV-HA-119 / WV-HA-117 / WV-HA-118 62 LF 63 SLOPE	1459+66	WV-HA-119 / WV-HA-118 658 LF 662 SLOPE	1466+24	WV-HA-119 / WV-HA-120 / WV-HA-118 25 LF 25 SLOPE	1466+49	WV-HA-120 / WV-HA-118 462 LF 464 SLOPE	1471+02	WV-HA-121 / WV-HA-118 119 LF 121 SLOPE	1472+30	WV-HA-121 180 LF 182 SLOPE	1474+10	WV-HA-121 / WV-HA-118 544 LF 550 SLOPE	1479+54	WV-HA-121 / WV-HA-118 / WV-HA-122 314 LF 316 SLOPE	1482+68	WV-HA-121 / WV-HA-118 276 LF 277 SLOPE	1485+44	WV-HA-123 1592 LF 1609 SLOPE	1501+37	WV-HA-123 / WV-HA-125 / WV-HA-5674 81 LF 81 SLOPE	1502+18	WV-HA-125 / WV-HA-5674 69 LF 69 SLOPE	1502+86
DESIGN	PIPE / COATING	1444+70	1																																	1502+86
	SLOPE DISTANCE		5850'																																	
	CLASS LOCATION / HCA		1																																	
ENVIRONMENTAL	CONSTRUCTION EXCLUSION	1444+70	TIME OF YEAR RESTRICTION: NO TREE CLEARING APRIL 1ST TO JULY 31ST																																	1502+86
	WETLAND / STREAM																																			
	.																																			
	.																																			



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
MVP-AR-H600-02	ACCESS ROADS, ANCILLARY SITES, MAINLINE VALVES & LAUNCHER/RECEIVER SITES
MVP-GDAR-H600-11	ACCESS ROAD DETAIL MAP

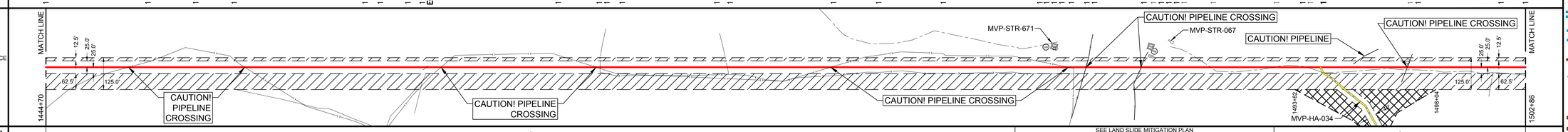
OCTOBER 2016 PROPOSED ROUTE - ISSUED TO FERC

HORIZONTAL STATIONING

1444+70 MATCH LINE
1448+71 PROPERTY CORNER 47'RT
1450+58 PROPERTY LINE
1452+09 PROPERTY LINE
1457+22 PROPERTY CORNER 27'LT
1457+30 PROPERTY LINE
1458+90 PROPERTY LINE
1459+47 PROPERTY LINE
EQUATION: 1459+60 BACK= 1459+61 AHEAD
1464+80 PROPERTY LINE
1466+39 PROPERTY LINE – FOREIGN – CRESTWOOD MIDSTREAM
1466+40 PIPELINE – FOREIGN – CRESTWOOD MIDSTREAM
1466+56 FENCE – BARBED WIRE
1471+02 PROPERTY LINE
1471+55 FENCE – BARBED WIRE
1475+60 PIPELINE – FOREIGN – CRESTWOOD MIDSTREAM
1477+37 PROPERTY LINE
1479+91 PROPERTY LINE
1484+04 WELL – GAS 78'LT
1484+27 SEPERATOR 80'LT
1484+37 METER – GAS 81'LT
1484+47 TANK – STORAGE 75'LT
1484+94 PIPELINE – FOREIGN – CRESTWOOD MIDSTREAM
1485+44 PROPERTY LINE
1485+62 PIPELINE – FOREIGN–UNKNOWN
1487+78 PIPELINE – FOREIGN–UNKNOWN
1488+16 METER – GAS 81'LT
1488+17 TANK – STORAGE 43'LT
1488+30 WELL – GAS 62'LT
1488+40 SEPERATOR 46'LT
1489+03 DEER BLIND 92'LT
1490+51 ℄ FIELD ROAD(DIRT)
1492+98 ℄ FIELD ROAD(DIRT)
1494+04 (DOMINION) PIPELINE
1494+23 ℄ FIELD ROAD(DIRT)
1494+82 ACCESS ROAD–TEMPORARY (MVP–HA–034)
1498+24 LINE MARKER 7'LT
1498+27 PIPELINE–FOREIGN–DOMINION
1501+79 PROPERTY LINE
1502+86 MATCH LINE

WORK SPACE

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

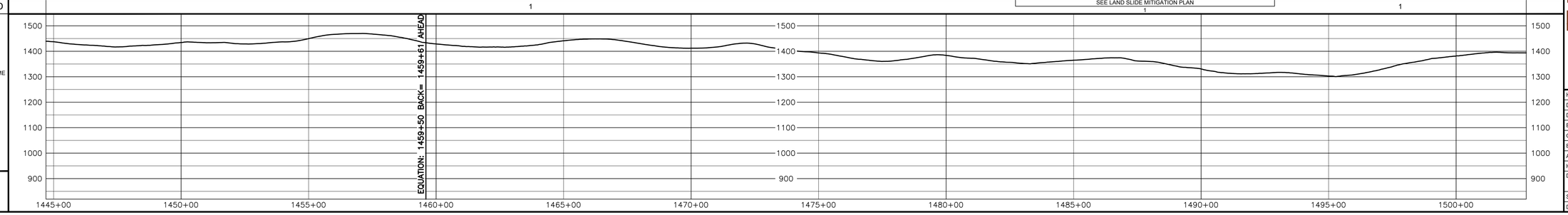


CONSTRUCTION METHOD

CONSTRUCTION METHOD KEY

1 - TYPICAL R/W WORKING SIDE RIGHT
1.1 - TYPICAL R/W WORKING SIDE RIGHT
2 - TYPICAL R/W WORKING SIDE LEFT
2.1 - TYPICAL R/W WORKING SIDE LEFT
3 - TYPICAL WETLAND X-ING
4 - ROAD X-ING - BORE
5 - RAILROAD X-ING - BORE
6 - WATERBODY X-ING OPEN CUT - FLUME
7 - PARALLEL TO POWER LINE
8 - RIDGE CONSTRUCTION
9 - WATERBODY X-ING OPEN CUT - WET DITCH
10 - HDD ENTRY PLAN
11 - HDD EXIT PLAN
12 - HDD CONSTRUCTION
13 - PARALLEL TO POWER LINE
14 - PARALLEL TO POWER LINE
15 - WATERBODY X-ING OPEN CUT - DRY/DAM & PUMP
33 - SIDE HILL CONSTRUCTION
34 - 2-TONE SIDE HILL CONSTRUCTION

PROFILE



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REVISIONS

REV.:	BY:	DATE:	DESCRIPTION
0	HEI	10-14-15	REV. 4.0.0 ISSUED TO FERC
1	HEI	01-11-16	FERC DATA REQUEST No.1
2	HEI	04-14-16	FERC DATA REQUEST No.2
3	HEI	08-15-16	REV. 4.1.0 ISSUED TO FERC
4	HEI	10-14-16	OCTOBER 2016 PROPOSED ROUTE - ISSUED TO FERC

AERIAL PHOTOGRAPHY DATE: APRIL 2015

MATERIAL SUMMARY

MK. NO.:	QTY.:	DESCRIPTION
1	5850	42"O.D. X.617"W.T. FBE 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
3	RRR	09-05-16

APPROVED FOR FERC

REV.	BY	DATE
0	RRR	10-15-15
4	RRR	10-14-16

Mountain Valley PIPELINE

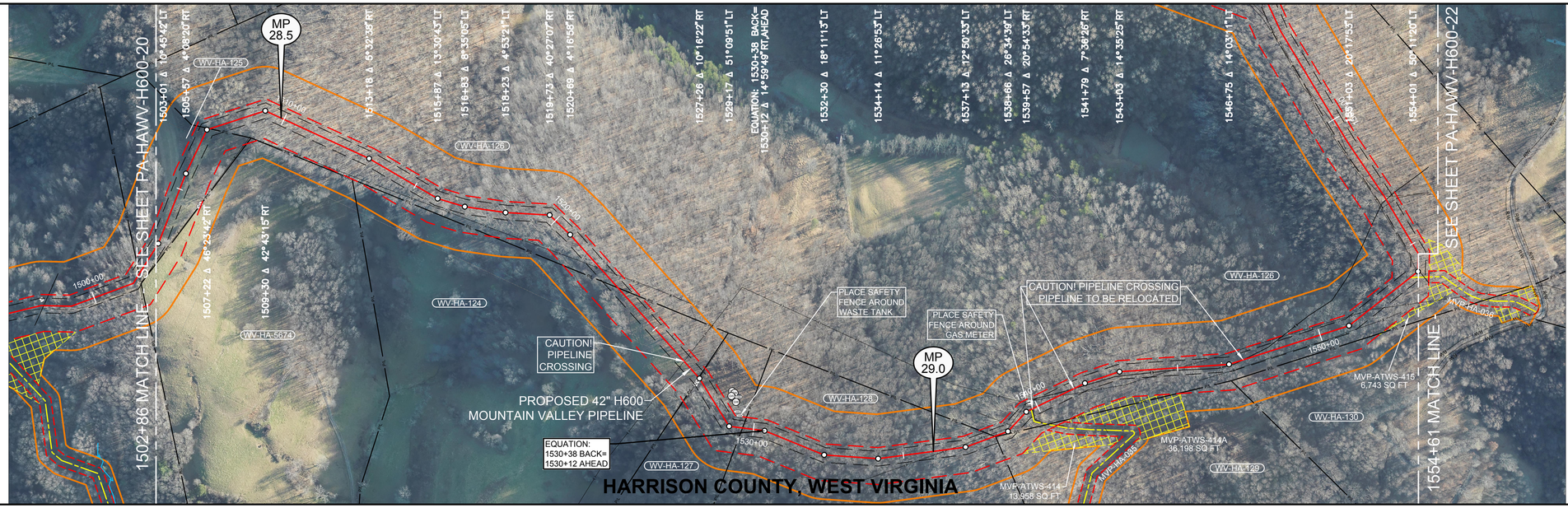
PIPELINE ALIGNMENT

MOUNTAIN VALLEY PROJECT - H600 LINE
TENMILE DIST.,HARRISON CO.,W.V.
STA. 1444+70 TO STA. 1502+86

HORZ. SCALE: 1" = 200'	
DRAWN BY: HEI(DRF)	10/7/2016
DRAFTING CK:	
ENGINEERING CK:	
CONSTRUCTION CK:	
ENVIRONMENTAL CK:	
AFE/P.O.NO.:	
HEI PROJECT NO.:	14-10-052
DRAWING NO.:	**PA-HAWV-H600 -20**
SHEET 30 OF 329	REV. 4
DATE OF PLOT: 10/10/2016 5:30 PM	

RIGHT-OF-WAY & OWNERSHIP DATA

		1502+86	1504+84	1506+78	1508+56	1513+02	1517+93	1521+31	1523+90	1527+22	1529+63	1537+76	1538+21	1540+92	1544+91	1546+07	1546+62	1551+76	1554+61
		WV-HA-125	WV-HA-125	WV-HA-126	WV-HA-126 WV-HA-125	WV-HA-126	WV-HA-126	WV-HA-126	WV-HA-126	WV-HA-124	WV-HA-127	WV-HA-128	WV-HA-126	WV-HA-126	WV-HA-126	WV-HA-126 WV-HA-125	WV-HA-126 WV-HA-130	WV-HA-126	WV-HA-126	
		WV-HA-5674		WV-HA-5674	WV-HA-5674	WV-HA-5674		WV-HA-124				EQUATION: 1530+38 BACK= 1530+12 AHEAD		WV-HA-129		WV-HA-129	WV-HA-129	WV-HA-130		
		198 LF 198 SLOPE	194 LF 196 SLOPE	156 LF 157 SLOPE	21 LF 21 SLOPE	17 LF 17 SLOPE	429 LF 438 SLOPE	491 LF 492 SLOPE	338 LF 339 SLOPE	259 LF 261 SLOPE	332 LF 333 SLOPE	241 LF 242 SLOPE	836 LF 849 SLOPE	45 LF 45 SLOPE	261 LF 262 SLOPE	409 LF 410 SLOPE	176 LF 176 SLOPE	15 LF 15 SLOPE	493 LF 496 SLOPE	286 LF 291 SLOPE	
DESIGN	PIPE / COATING	1																		1
	SLOPE DISTANCE	5233'																		
	CLASS LOCATION / HCA	1																		
ENVIRONMENTAL	CONSTRUCTION EXCLUSION	TIME OF YEAR RESTRICTION: NO TREE CLEARING APRIL 1ST TO JULY 31ST																		
	WETLAND / STREAM																			
	.																			
	.																			



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
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- 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

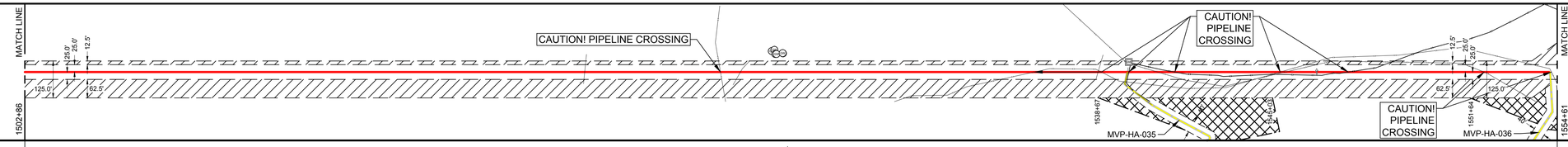
DRAWING NO.	DESCRIPTION
MVP-AR-H600-02	ACCESS ROADS, ANCILLARY SITES, MAINLINE VALVES & LAUNCHER/RECEIVER SITES
MVP-GDAR-H600-11	ACCESS ROAD DETAIL MAP

HORIZONTAL STATIONING

1502+86	MATCH LINE
1504+68	GATE POST 82'RT
1504+80	GATE POST 85'RT
1507+18	PROPERTY LINE
1508+56	PROPERTY CORNER 73'RT
1522+25	FENCE – WIRE
1523+28	PROPERTY LINE
1526+48	PIPELINE – FOREIGN – CRESTWOOD MIDSTREAM
1527+22	PROPERTY LINE
1527+25	FENCE – WIRE
1527+36	GATE POST 22'RT
1528+21	WELL – GAS 71'LT
1528+30	WELL – GAS 75'LT
1528+37	WELL – GAS 61'LT
1528+43	WELL – – – WASTE 80'LT
1528+49	TANK – GAS 64'LT
1528+58	WELL – GAS 63'LT
1528+89	TANK – WASTE 60'LT
1529+05	TANK – WASTE 50'LT
1529+63	PROPERTY LINE
EQUATION: 1530+38 BACK = 1530+12 AHEAD	
1536+60	PIPELINE – FOREIGN–DOMINION
1538+18	PROPERTY LINE
1538+81	FENCE – BARBED WIRE
1538+88	(DOMINION) PIPELINE
1539+76	**ACCESS ROAD – TEMPORARY (MVP–HA–035)**
1539+80	PIPELINE – FOREIGN–UNKNOWN
1540+41	METER – GAS – FOREIGN –
1540+79	PIPELINE – CRESTWOOD MIDSTREAM
1541+37	PIPELINE – FOREIGN–DOMINION
1544+95	PIPELINE – FOREIGN–DOMINION
1545+12	PIPELINE – FOREIGN – CRESTWOOD MIDSTREAM
1546+48	REGULATOR 11'RT
1546+48	VENT PIPE 12'RT
1547+26	PIPELINE – FOREIGN–DOMINION
1551+87	PIPELINE – FOREIGN – CRESTWOOD MIDSTREAM
1553+67	**ACCESS ROAD–TEMPORARY (MVP–HA–036)**
1554+15	PIPELINE –FOREIGN–DOMINION
1554+61	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 WORKING SIDE RIGHT
1.1 - TYPICAL R/W WORKING SIDE RIGHT
2 - TYPICAL R/W WORKING SIDE LEFT
2.1 - TYPICAL R/W WORKING SIDE LEFT
3 - TYPICAL WETLAND X-ING
4 - ROAD X-ING - BORE
5 - RAILROAD X-ING - BORE
6 - WATERBODY X-ING OPEN CUT - FLUME
7 - PARALLEL TO POWER LINE
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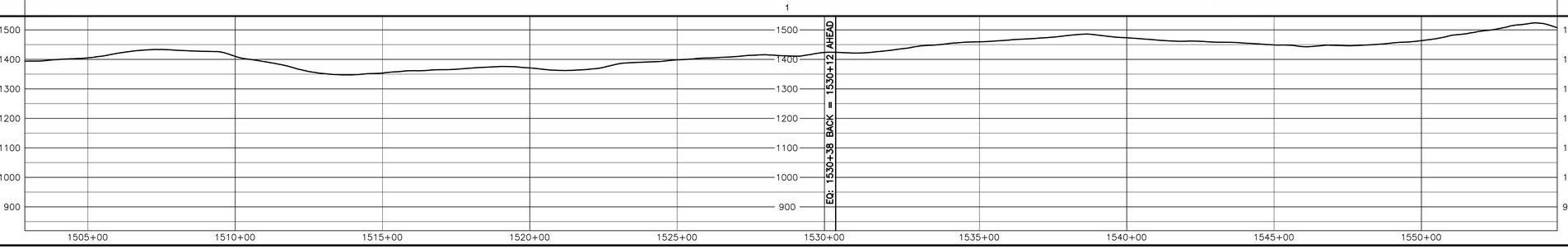
15 - WATERBODY X-ING OPEN CUT - DRY/DAM & PUMP
33 - SIDE HILL CONSTRUCTION
34 - 2-TONE SIDE HILL CONSTRUCTION

PROFILE



OCTOBER 2016 PROPOSED ROUTE - ISSUED TO FERC

HOLLAND ENGINEERING
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www.hollandengineering.com

REVISIONS

REV.	BY	DATE	DESCRIPTION
0	HEI	10-14-15	REV. 4.0.0 ISSUED TO FERC
1	HEI	01-11-16	FERC DATA REQUEST No.1
2	HEI	04-14-16	FERC DATA REQUEST No.2
3	HEI	05-04-16	REV. 4.0.1 ISSUED TO FERC
4	HEI	10-14-16	OCTOBER 2016 PROPOSED ROUTE - ISSUED TO FERC

AERIAL PHOTOGRAPHY DATE: APRIL 2015 & JANUARY 2016

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
1	5233'	42"O.D. X 0.617"W.T. API 5L X70 PSL2 FBE COATED W/ BONDED EPOXY
		TYPE 1 TEST STATION - PIPELINE
		TYPE 4 TEST STATION - FOREIGN CROSSING

APPROVED FOR FERC			APPROVED FOR BIDDING			APPROVED FOR CONSTRUCTION		
REV.	BY	DATE	REV.	BY	DATE	MK. NO.	BY	DATE
0	HEI	10-15-15	3	RRR	09-03-16	1	-	-
4	HEI	10-14-16						

Mountain Valley PIPELINE

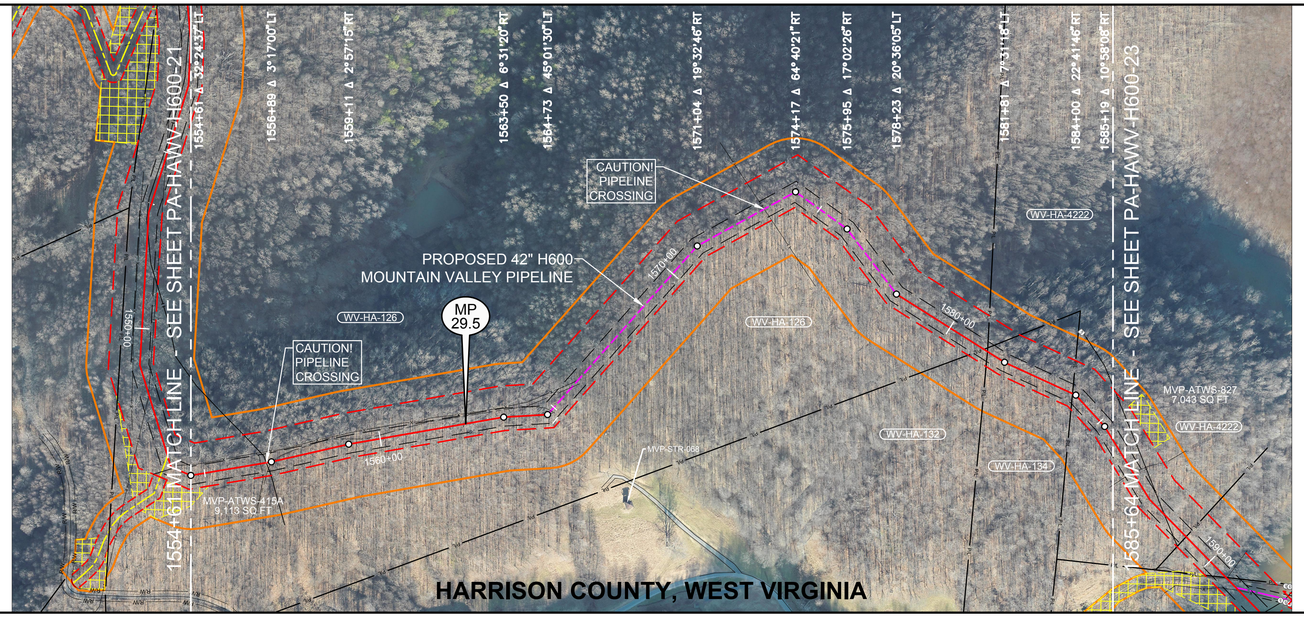
PIPELINE ALIGNMENT

MOUNTAIN VALLEY PROJECT - H600 LINE
TENMILE DIST.,HARRISON CO.,W.V.
STA. 1502+86 TO STA. 1554+61

HORZ. SCALE: 1" = 200'	
DRAWN BY: HEI(DRF)	10/7/2016
DRAFTING CK:	
ENGINEERING CK:	
CONSTRUCTION CK:	
ENVIRONMENTAL CK:	
AFE/P.O.NO.:	
HEI PROJECT NO.: 14-10-052	
DRAWING NO.: **PA-HAWV-H600 -21**	
SHEET 31 OF 329	REV. 4
DATE OF PLOT: 10/10/2016 5:31 PM	

RIGHT-OF-WAY & OWNERSHIP DATA

		1554+61	1554+62	1556+52	1558+52	1558+92	1579+40	1581+08	1583+56	1584+07	1585+64
			WV-HA-126	WV-HA-4222 / WV-HA-126 / WV-HA-132		WV-HA-4222 / WV-HA-134 / WV-HA-132	WV-HA-4222 / WV-HA-134		WV-HA-134	WV-HA-4222 / WV-HA-134	WV-HA-4222
			2621 LF 2645 SLOPE	39 LF 39 SLOPE		19 LF 19 SLOPE	49 LF 49 SLOPE		167 LF 168 SLOPE	51 LF 51 SLOPE	157 LF 158 SLOPE	
DESIGN	PIPE / COATING		1									
	SLOPE DISTANCE		3130'									
	CLASS LOCATION / HCA		1									
ENVIRONMENTAL	CONSTRUCTION EXCLUSION		TIME OF YEAR RESTRICTION: NO TREE CLEARING APRIL 1ST TO JULY 31ST									
	WETLAND / STREAM											
	.											
	.											



0' 100' 200' 400'

PLAN VIEW

LEGEND

- STUDY CORRIDOR
- PROPOSED 42"PIPELINE
- NON-SURVEYED C/L
- 500' TICK MARK
- EXISTING PIPELINE
- PERMANENT EASEMENT
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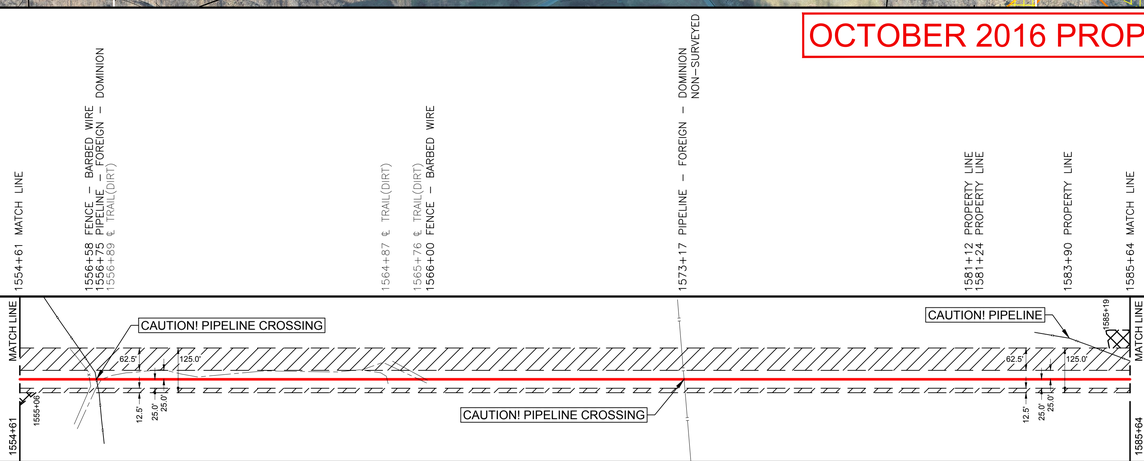
- ABOVE GROUND FACILITY
- LIMITS OF DISTURBANCE

REFERENCE DRAWINGS

DRAWING NO.	DESCRIPTION
MVP-AR-H600-02	ACCESS ROADS, ANCILLARY SITES, MAINLINE VALVES & LAUNCHER/RECEIVER SITES

HORIZONTAL STATIONING



WORK SPACE

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

CONSTRUCTION METHOD

CONSTRUCTION METHOD KEY

1 - TYPICAL R/W WORKING SIDE RIGHT
1.1 - TYPICAL R/W WORKING SIDE RIGHT
2 - TYPICAL R/W WORKING SIDE LEFT
2.1 - TYPICAL R/W WORKING SIDE LEFT
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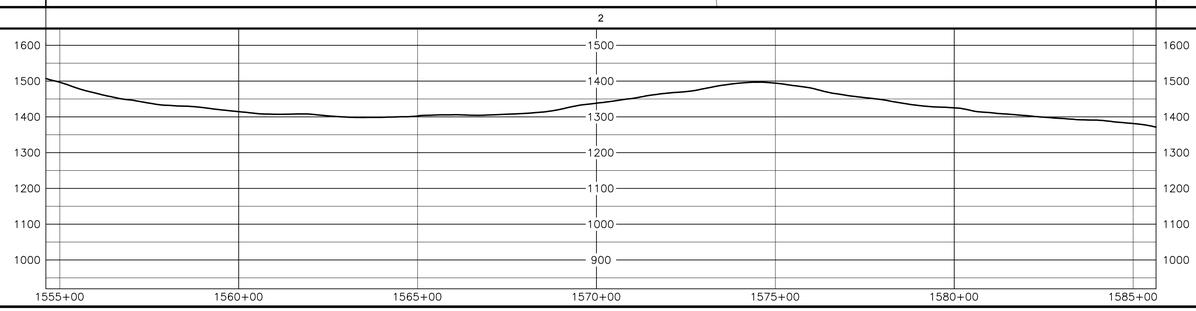
14 - PARALLEL TO POWER LINE
15 - WATERBODY X-ING OPEN CUT - DRY/DAM & PUMP
33 - SIDE HILL CONSTRUCTION
34 - 2-TONE SIDE HILL CONSTRUCTION

PROFILE



OCTOBER 2016 PROPOSED ROUTE - ISSUED TO FERC

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REVISIONS

REV.	BY	DATE	DESCRIPTION
0	HEI	10-15	REV. 4.0.0 ISSUED TO FERC
1	HEI	01-11-16	FERC DATA REQUEST No.1
2	HEI	04-14-16	FERC DATA REQUEST No.2
3	HEI	05-13-16	REV. 4.1.0 ISSUED TO FERC
4	HEI	10-14-16	OCTOBER 2016 PROPOSED ROUTE - ISSUED TO FERC

AERIAL PHOTOGRAPHY DATE: APRIL 2015 & JANUARY 2016

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
1	3130	42"O.D. X 0.617"W.T. API 5L X70 FBE 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
3	RRR	09-03-16

APPROVED FOR FERC		
REV.	BY	DATE
0	RRR	10-15-15
4	RRR	10-14-16

Mountain Valley PIPELINE

PIPELINE ALIGNMENT

MOUNTAIN VALLEY PROJECT - H600 LINE
TENMILE DIST.,HARRISON CO.,W.V.
STA. 1554+61 TO STA. 1585+64

HORZ. SCALE: 1" = 200'	
DRAWN BY: HEI(DRF)	10/7/2016
DRAFTING CK:	
ENGINEERING CK:	
CONSTRUCTION CK:	
ENVIRONMENTAL CK:	
AFE/P.O.NO.:	
HEI PROJECT NO.:	14-10-052
DRAWING NO.:	PA-HAWV-H600 -22
SHEET 32 OF 329	REV. 4
DATE OF PLOT:	10/10/2016 5:31 PM

RIGHT-OF-WAY & OWNERSHIP DATA

Station	Owner(s)	Length
1585+64 – 1589+05	WV-HA-4222	341 LF, 359 SLOPE
1589+05 – 1590+19	WV-HA-4223	114 LF, 122 SLOPE
1590+19 – 1591+71	WV-HA-4223 / WV-HA-4224	152 LF, 160 SLOPE
1591+71 – 1593+17	WV-HA-4224	146 LF, 148 SLOPE
1593+17 – 1593+42	COUNTY ROUTE 50/8	25 LF - 26 SLOPE
1593+42 – 1594+17	WV-HA-4226 / WV-HA-4227	75 LF, 78 SLOPE
1594+17 – 1599+77	WV-HA-4227	560 LF, 593 SLOPE
1599+77 – 1601+78	WV-HA-4227 / WV-HA-135	201 LF, 205 SLOPE
1601+78 – 1607+99	WV-HA-135	621 LF, 628 SLOPE
1607+99 – 1614+66	WV-HA-136 / WV-HA-135	667 LF, 671 SLOPE
1614+66 – 1617+50	WV-HA-135	284 LF, 286 SLOPE
1617+50 – 1621+37	WV-HA-136 / WV-HA-135	387 LF, 387 SLOPE

DESIGN

PIPE / COATING (1585+64 – 1621+37)	1 (to 1592+69)	3 (to 1593+09)	1 (to 1593+11)	4 (to 1593+51)	1	
SLOPE DISTANCE	740'	40'	2	40'	2841'	
CLASS LOCATION / HCA	1					

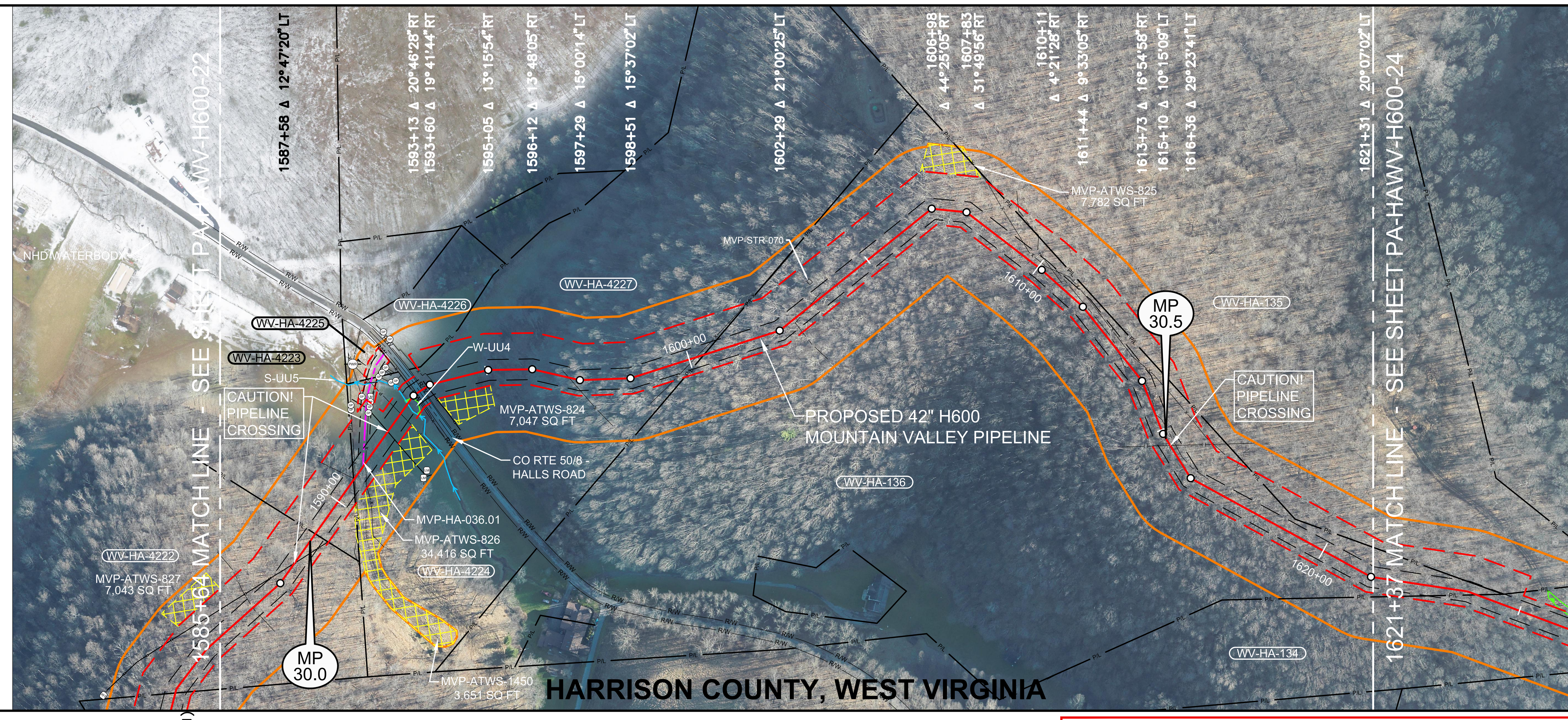
ENVIRONMENTAL

CONSTRUCTION EXCLUSION (1585+64 – 1621+37): TIME OF YEAR RESTRICTION: NO TREE CLEARING APRIL 1ST TO JULY 31ST

WETLAND / STREAM	S-UU5	W-UU4
	4 LF	27 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
MVP-AR-H600-02	ACCESS ROADS, ANCILLARY SITES, MAINLINE VALVES & LAUNCHER/RECEIVER SITES

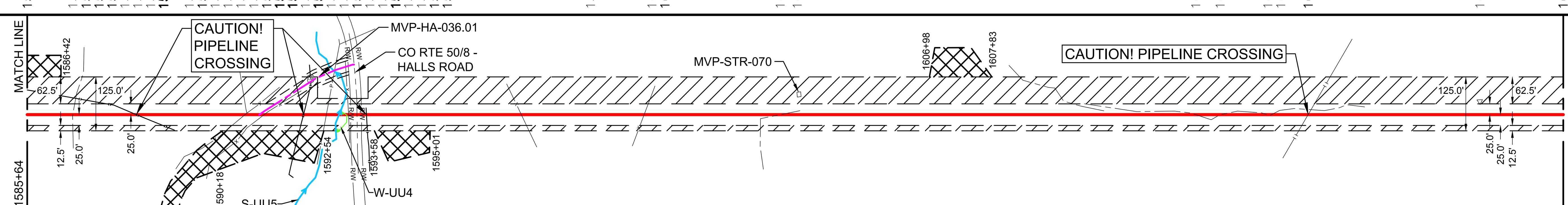
OCTOBER 2016 PROPOSED ROUTE - ISSUED TO FERC

HORIZONTAL STATIONING

1585+64 MATCH LINE
1586+70 ℄ TRAIL(DIRT)
1588+18 PIPELINE – FOREIGN – UNKNOWN
1589+04 PROPERTY LINE
1590+64 PROPERTY LINE
1590+68 FENCE – BARBED WIRE
1590+68 PROPERTY CORNER 1'RT
1590+70 FENCE – BARBED WIRE
1591+04 ACCESS RD –PERMANENT(MVP–HA–036.01)
℄ FIELD ROAD(GRAVEL)
1591+14 FENCE – BARBED WIRE
1592+06 PIPELINE – FOREIGN – DOMINION
1592+16 GATE POST 64'LT
1592+30 GATE POST 70'LT
1592+38 LINE MARKER 74'LT
1592+41 GATE POST 76'LT
1592+60 OHP LINE
1592+81 BEGIN WETLAND(W–UU4)20'RT
1592+89 ℄ STREAM(S–UU5)
1593+03 CULVERT OPEN END 24'RT
1593+07 END WETLAND(W–UU4)1'RT
1593+08 GATE POST 62'LT
1593+13 GATE POST 55'LT
1593+16 RIGHT–OF–WAY
1593+19 FENCE – BARBED WIRE
1593+23 EDGE OF ASPHALT
1593+31 ℄ CO RTE 50/8 – HALLS ROAD
1593+38 EDGE OF ASPHALT
1593+41 CULVERT OPEN END 23'RT
1593+46 RIGHT–OF–WAY
1593+53 PIPELINE – FOREIGN – UNKNOWN
1597+02 FENCE – HOG WIRE
1600+17 FENCE – BARBED WIRE
1600+23 PROPERTY LINE
1603+15 ℄ TRAIL(DIRT)
1603+55 BUILDING – DEER BLIND 41'LT
1612+82 ℄ TRAIL(DIRT)
1613+39 ℄ TRAIL(DIRT)
1614+50 ℄ TRAIL(DIRT)
1614+58 ℄ TRAIL(DIRT)
1615+43 PIPELINE – FOREIGN–DOMINION
1619+43 ANTENNA 29'RT
1621+37 MATCH LINE

WORK SPACE

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



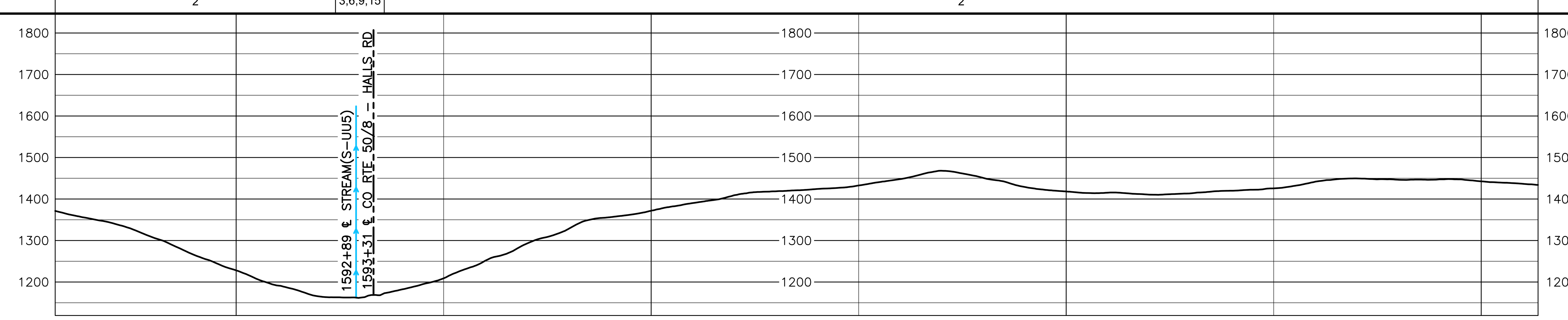
CONSTRUCTION METHOD

2	3,6,9,15	2

CONSTRUCTION METHOD KEY

1 - TYPICAL R/W WORKING SIDE RIGHT
1.1 - TYPICAL R/W WORKING SIDE RIGHT
2 - TYPICAL R/W WORKING SIDE LEFT
2.1 - TYPICAL R/W WORKING SIDE LEFT
3 - TYPICAL WETLAND X-ING
4 - ROAD X-ING - BORE
5 - RAILROAD X-ING - BORE
6 - WATERBODY X-ING OPEN CUT - FLUME
7 - PARALLEL TO POWER LINE
8 - RIDGE CONSTRUCTION
9 - WATERBODY X-ING OPEN CUT - WET DITCH
10 - HDD ENTRY PLAN
11 - HDD EXIT PLAN
12 - HDD CONSTRUCTION
13 - PARALLEL TO POWER LINE
14 - PARALLEL TO POWER LINE
15 - WATERBODY X-ING OPEN CUT - DRY/DAM & PUMP
33 - SIDE HILL CONSTRUCTION
34 - 2-TONE SIDE HILL CONSTRUCTION

PROFILE



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REVISIONS

REV.	BY	DATE	DESCRIPTION
0	HEI	10-15-15	REV. 4.0.0 ISSUED TO FERC
1	HEI	01-11-16	FERC DATA REQUEST No.1
2	HEI	04-14-16	FERC DATA REQUEST No.2
3	HEI	09-03-16	REV. 4.1.13 ISSUED FOR BID
4	HEI	10-14-16	OCTOBER 2016 PROPOSED ROUTE - ISSUED TO FERC

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
1	3583	42"O.D. X 0.617"W.T., X-70, FUSION BONDED EPOXY
3	40	42"O.D. X 0.888"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

AERIAL PHOTOGRAPHY DATE: APRIL 2015 & JANUARY 2016

APPROVED FOR CONSTRUCTION

REV.	BY	DATE
.	.	.

APPROVED FOR BIDDING

REV.	BY	DATE
3	RRR	09-03-16

APPROVED FOR FERC

REV.	BY	DATE
0	RRR	10-15-15
4	RRR	10-14-16

Mountain Valley PIPELINE

PIPELINE ALIGNMENT

MOUNTAIN VALLEY PROJECT - H600 LINE
TENMILE DIST.,HARRISON CO.,W.V.
STA. 1586+91 TO STA. 1621+62

HORZ. SCALE: 1" = 200'	
DRAWN BY: HEI(DRF)	10/7/2016
DRAFTING CK:	
ENGINEERING CK:	
CONSTRUCTION CK:	
ENVIRONMENTAL CK:	
AFE/P.O.NO.:	
HEI PROJECT NO.: 14-10-052	
DRAWING NO.: PA-HAWV-H600 -23	
SHEET 33 OF 329	REV. 4
DATE OF PLOT: 10/10/2016 5:32 PM	