RIGHT-OF-WAY & OWNERSHIP DATA

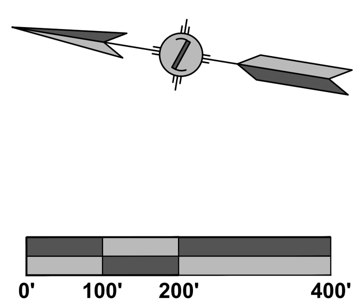
Station range	Owner	Length
3800+66 – 3806+06	WV-BR-024	540 LF / 565 SLOPE
3806+06 – 3806+68	US HWY 19 - ST HWY 4	62 LF - 66 SLOPE
3806+68 – 3838+05	WV-BR-024	3137 LF / 3227 SLOPE
3838+05 – 3839+25	WV-BR-025 / WV-BR-024	120 LF / 120 SLOPE
3839+25 – 3841+96	WV-BR-025	271 LF / 272 SLOPE
3841+96 – 3842+89	WV-BR-025 / WV-BR-026	93 LF / 97 SLOPE
3842+89 – 3847+66	WV-BR-026	477 LF / 480 SLOPE

DESIGN

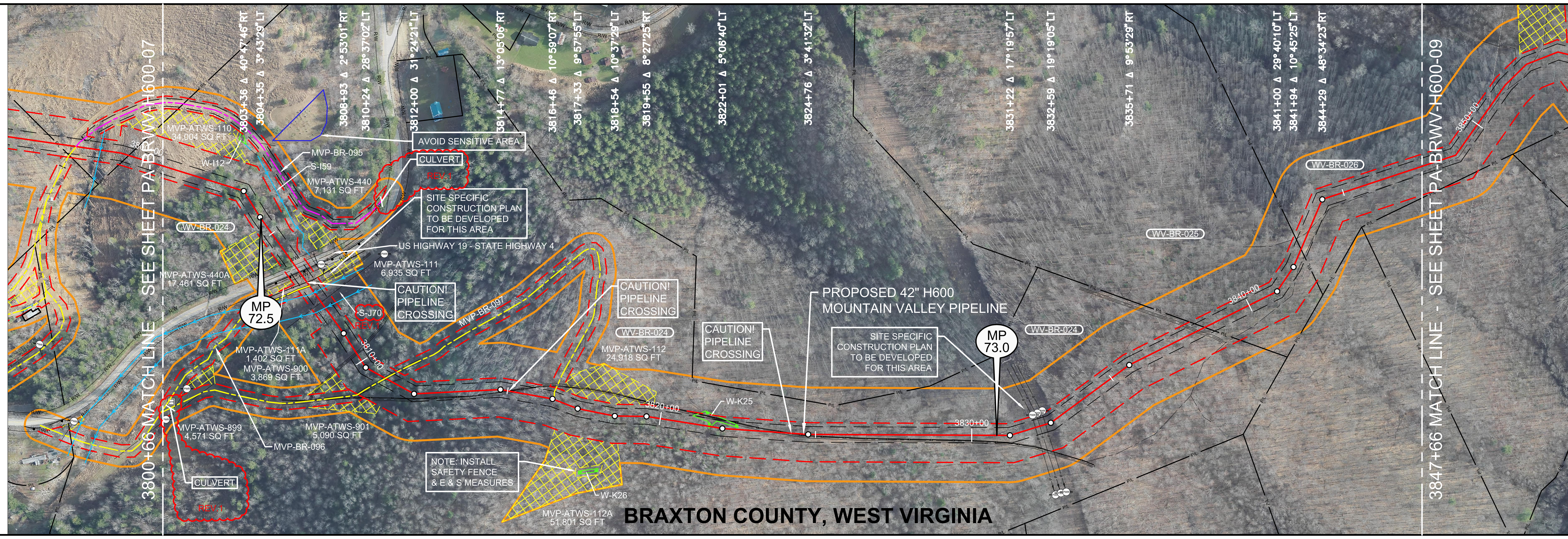
	3800+66 – 3805+97	3805+97 – 3806+77	3806+77 – 3847+66
PIPE / COATING	1	5	1
SLOPE DISTANCE	558'	80'	4189'
CLASS LOCATION / HCA			1

ENVIRONMENTAL

CONSTRUCTION EXCLUSION		
WETLAND / STREAM	REV.1 S-J70 60 LF	S-K25 7 LF
.		
.		



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

AERIAL PHOTOGRAPHY DATE: APRIL 2015 & JANUARY 2016

REV 4.0.0 - ISSUED TO FERC

REFERENCE DRAWINGS

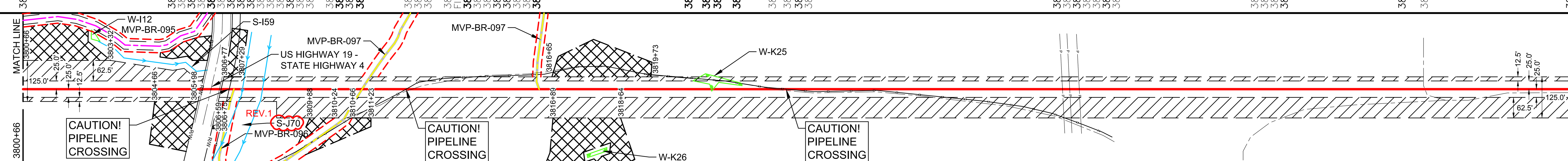
DRAWING NO.	DESCRIPTION

HORIZONTAL STATIONING

- 3800+66 MATCH LINE
- 3806+06 RIGHT-OF-WAY
- 3806+25 EDGE OF ASPHALT
- 3806+33 CONCRETE 67'LT
- 3806+33 CULVERT 70'LT
- **3806+37 ℄ US HIGHWAY 19 - STATE HIGHWAY 4**
- 3806+50 EDGE OF ASPHALT
- 3806+53 GUARDRAIL
- 3806+57 OHP LINE
- 3806+68 RIGHT-OF-WAY
- 3806+72 POWER POLE 71'LT
- 3806+78 CULVERT 60'LT
- 3806+89 GUY ANCHOR 70'LT
- 3806+92 PIPELINE - FOREIGN - UNKNOWN
- 3807+03 EDGE OF DIRT
- 3807+07 ℄ TRAIL(DIRT)
- 3807+07 ACCESS RD - TEMPORARY(MVP-BR-096)
- 3807+10 EDGE OF DIRT
- **3807+32 STREAM BANK(S-J70)** REV.1
- 3807+71 OHP LINE
- **3807+92 STREAM BANK(S-J70)**
- 3809+66 EDGE OF DIRT
- 3809+70 ℄ TRAIL(DIRT)
- 3809+74 EDGE OF DIRT
- 3810+91 EDGE OF DIRT
- FIELD ROAD(DIRT)
- **3810+96 ℄ ACCESS RD-TEMPORARY(MVP-BR-097)**
- 3811+00 EDGE OF DIRT
- 3811+20 ℄ TRAIL(DIRT)
- 3815+02 EDGE OF DIRT
- 3815+04 PIPELINE - FOREIGN - UNKNOWN
- 3815+12 ℄ FIELD ROAD(DIRT)
- 3815+23 EDGE OF DIRT
- **3816+52 ℄ ACCESS RD-TEMPORARY(MVP-BR-097)**
- **3821+02 WETALND(W-K25)25'LT**
- **3821+53 BEGIN WETALND(W-K25)**
- **3821+60 END WETALND(W-K25)**
- **3822+48 WETALND(W-K25)7'LT**
- 3823+43 EDGE OF DIRT
- 3823+88 ℄ FIELD ROAD(DIRT)
- 3824+22 PIPELINE - FOREIGN - UNKNOWN
- 3824+33 EDGE OF DIRT
- 3832+08 OHP LINE
- 3832+11 POWER POLE 41'LT
- 3832+23 OHP LINE
- 3832+27 POWER POLE 43'LT
- 3832+41 GUY ANCHOR 46'LT
- 3832+42 OHP LINE
- 3832+44 POWER POLE 45'LT
- 3838+08 EDGE OF DIRT
- 3838+13 ℄ FIELD ROAD(DIRT)
- 3838+18 EDGE OF DIRT
- 3838+41 PROPERTY LINE
- 3842+56 PROPERTY LINE
- 3843+24 ℄ FIELD ROAD(DIRT)
- 3847+66 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	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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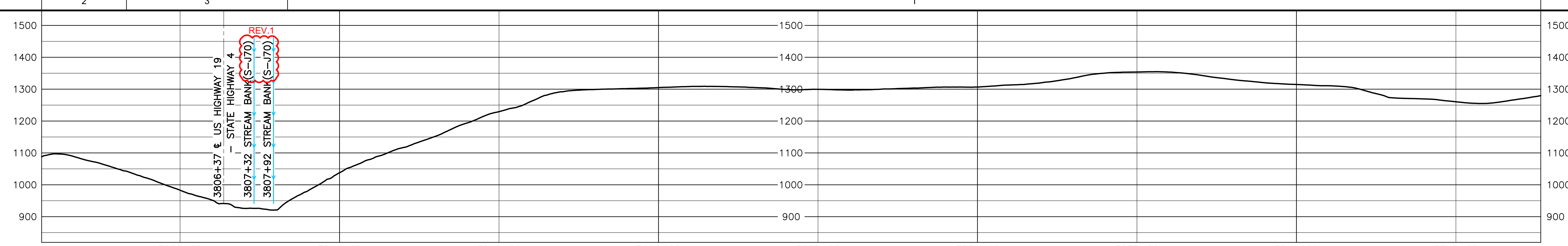
15 -
16 -

PROFILE



MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
1	4747	42"O.D. X 0.617"W.T., X-70, FUSION BONDED EPOXY
5	80	42"O.D. X 0.888"W.T., X-70, FBE & ARO
		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
1	HEI	4-11-16	FERC DATA REQUEST NO.2

APPROVED FOR CONSTRUCTION		
REV.	BY	DATE
.	.	.

APPROVED FOR BIDDING		
REV.	BY	DATE
.	.	.

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

HOLLAND ENGINEERING
220 Hoover Boulevard, Suite 2
Holland, Michigan 49423-3766
T 616-392-5938 F 616-392-2116
26555 Evergreen Rd. Suite. 430
Southfield, Michigan 48076
T 248-827-7322 F 248-827-7549
www.hollandengineering.com

Mountain Valley PIPELINE

PIPELINE ALIGNMENT

MOUNTAIN VALLEY PROJECT - H600 LINE SALT LICK DIST., BRAXTON CO.,W.V. STA. 3800+66 TO STA. 3847+66

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-BRWV-H600 -08	
SHEET 79 OF 326	REV. 1
DATE OF PLOT: 04/19/16 10:42 AM	

RIGHT-OF-WAY & OWNERSHIP DATA

Station	Owner	Length
3847+66 – 3848+00	WV-BR-026	34 LF / 35 SLOPE
3848+00 – 3849+44	WV-BR-026 / WV-BR-028	144 LF / 146 SLOPE
3849+44 – 3855+70	WV-BR-026	626 LF / 629 SLOPE
3855+70 – 3860+65	WV-BR-031	495 LF / 525 SLOPE
3860+65 – 3861+16	WV-BR-030 / WV-BR-031	51 LF / 53 SLOPE
3861+16 – 3862+56	WV-BR-030	140 LF / 144 SLOPE
3862+56 – 3863+39	WV-BR-030 / WV-BR-031	83 LF / 90 SLOPE
3863+39 – 3872+48	WV-BR-031	909 LF / 948 SLOPE
3872+48 – 3872+79	COUNTY ROUTE 24	31 LF - 32 SLOPE
3872+79 – 3880+78	WV-BBR-5	799 LF / 813 SLOPE
3880+78 – 3888+44	WV-BR-033	766 LF / 800 SLOPE
3888+44 – 3894+89	WV-BR-034	645 LF / 674 SLOPE
3894+89 – 3895+51	WV-BR-034 / WV-BR-033	62 LF / 70 SLOPE
3895+51 – 3895+74	WV-BR-034 / WV-BR-035 / WV-BR-033	23 LF / 26 SLOPE
3895+74 – 3898+42	WV-BR-034 / WV-BR-035	268 LF / 301 SLOPE
3898+42 – 3899+15	WV-BR-035	73 LF / 73 SLOPE

DESIGN

	3847+66 – 3872+43	3872+43 – 3872+83	3872+83 – 3899+15
PIPE / COATING	1	4	1
SLOPE DISTANCE	2529'	40'	2710'
CLASS LOCATION / HCA	1	1	1

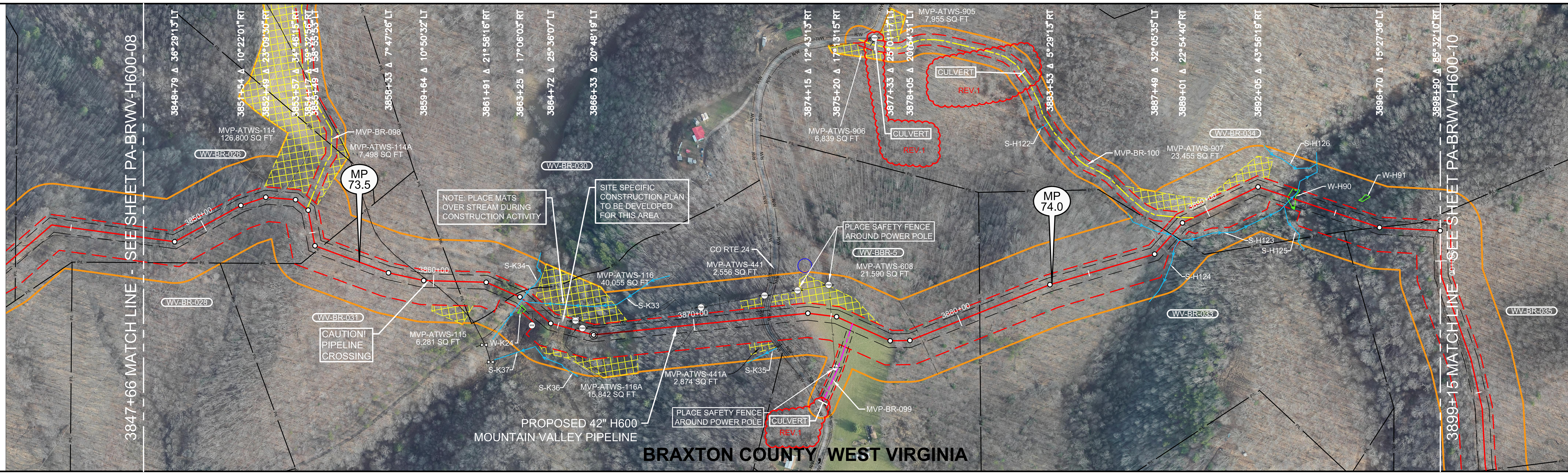
ENVIRONMENTAL

CONSTRUCTION EXCLUSION: 3866+17 – 3899+15 TIME OF YEAR RESTRICTION: TIMBER TO BE DOWN BY TO MAY 31, 2017

WETLAND / STREAM	S-K34	S-K33	S-H123	S-H124	W-H90	S-H123
	5 LF	2 LF	6 LF	2 LF	30 LF	6 LF

PLAN VIEW

0' 100' 200' 400'



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

AERIAL PHOTOGRAPHY DATE: APRIL 2015 & JANUARY 2016

REFERENCE DRAWINGS

DRAWING NO.	DESCRIPTION

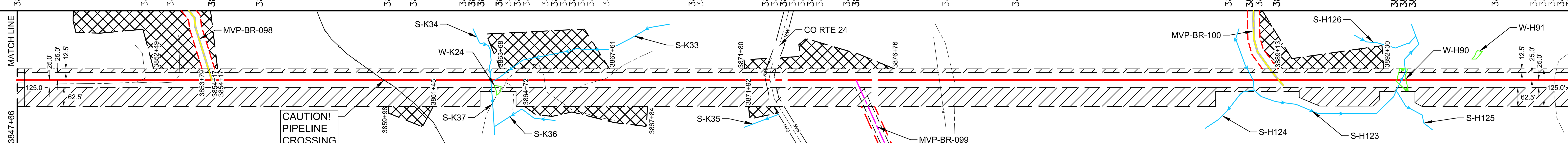
REV 4.0.0 - ISSUED TO FERC

HORIZONTAL STATIONING

3847+66 MATCH LINE
3851+88 ℄ FIELD ROAD(DIRT)
3852+74 ℄ FIELD ROAD(DIRT)
3854+11 ACCESS RD – TEMPORARY(MVP-BR-098)
3855+70 PROPERTY LINE
3859+82 PIPELINE – FOREIGN – UNKNOWN
3860+80 PROPERTY LINE
3863+04 PROPERTY LINE
3863+37 ℄ STREAM(S-K34)
3863+49 ℄ STREAM(S-K33), BEGIN WETLAND(W-K24)18'RT
3863+71 END WETLAND(W-K24)21'RT
3864+03 ℄ TRAIL(DIRT)
3864+25 WELL – WATER 50'RT
3864+30 BUILDING – SHED 42'RT
3865+28 ℄ TRAIL(DIRT)
3865+48 FENCE – BARBED WIRE
3865+56 POWER POLE 33'LT
3865+56 PEDESTAL – TELEPHONE 35'LT
3865+66 GUY ANCHOR 3'LT
3865+88 POWER POLE 13'LT
3867+19 ℄ TRAIL(DIRT)
3870+04 FENCE – BARBED WIRE
3870+31 POWER POLE 60'LT
3872+48 RIGHT-OF-WAY
3872+56 EDGE OF ASPHALT
3872+63 ℄ CO RTE 24 – GREEN HILL RD
3872+65 POWER POLE 80'LT
3872+71 EDGE OF ASPHALT
3872+79 RIGHT-OF-WAY
3873+86 POWER POLE 86'LT
3875+01 OHP LINE
3875+48 ACCESS RD – PERMANENT(MVP-BR-099)
3878+46 ℄ TRAIL(DIRT)
3880+78 PROPERTY LINE
3887+84 PROPERTY CORNER 80'LT
3888+42 ℄ STREAM(S-H123)
3888+44 PROPERTY LINE
3889+44 ACCESS RD – TEMPORARY(MVP-BR-100)
3893+18 BEGIN WETLAND(W-H90)
3893+93 ℄ STREAM(S-H123)
3893+48 END WETLAND(W-H90)
3896+68 PROPERTY LINE
3898+77 EDGE OF DIRT
3898+81 ℄ FIELD ROAD(DIRT)
3898+85 EDGE OF DIRT
3898+90 PROPERTY CORNER 42'LT
3899+15 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

3847+66 – 3863+04	3863+04 – 3863+71	3863+71 – 3887+84	3887+84 – 3891+33	3891+33 – 3893+00	3893+00 – 3896+33	3896+33 – 3899+15
1	3	1	3	1	3	1

CONSTRUCTION METHOD KEY
1 - TYPICAL R/W CONFIGURATION
2 - TYPICAL R/W CONFIGURATION
3 - TYPICAL "SKINNEY" FOR WATER BODY
4 -
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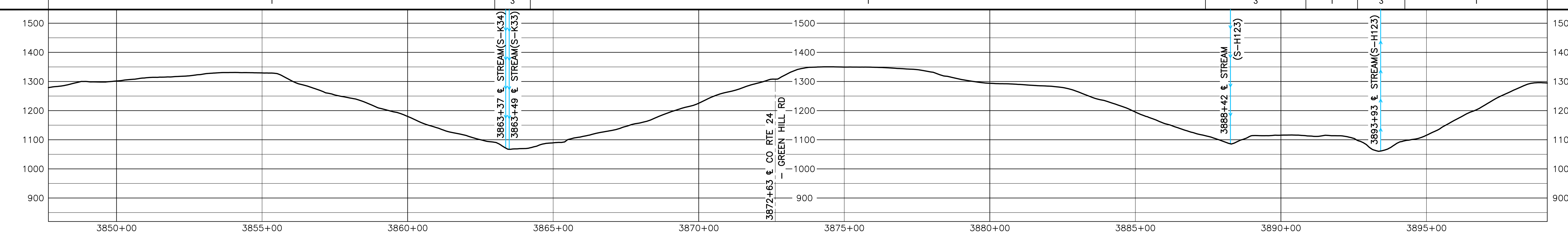
PROFILE



REVISIONS

REV.	BY	DATE	DESCRIPTION
0	HEI	10-15-15	REV. 4.0.0 ISSUED TO FERC
1	HEI	4-11-16	FERC DATA REQUEST NO.2

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
1	5319	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

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220 Hoover Boulevard, Suite 2, Holland, Michigan 49423-3766, T 616-392-5938 F 616-392-2116
26555 Evergreen Rd. Suite. 430, Southfield, Michigan 48076, T 248-827-7322 F 248-827-7549
www.hollandengineering.com

Mountain Valley PIPELINE

PIPELINE ALIGNMENT
MOUNTAIN VALLEY PROJECT - H600 LINE SALT LICK DIST., BRAXTON CO.,W.V. STA. 3847+66 TO STA. 3899+15

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-BRWV-H600 -09	
SHEET 80 OF 326	REV. 1
DATE OF PLOT: 04/19/16 10:43 AM	

RIGHT-OF-WAY & OWNERSHIP DATA

Station range	Parcel	Length
3899+15 – 3907+85	WV-BR-035	870 LF / 874 SLOPE
3907+85 – 3909+65	WV-BR-036 / WV-BR-035	180 LF / 180 SLOPE
3909+65 – 3917+00	WV-BR-036	735 LF / 753 SLOPE
3917+00 – 3933+37	WV-BR-037 (EQUATION: 3928+27 BACK = 3928+47 AHEAD)	1617 LF / 1686 SLOPE
3933+37 – 3934+34	LITTLE KANAWHA RIVER	97 LF / 97 SLOPE
3934+34 – 3957+15	WV-BR-038	2281 LF / 2372 SLOPE

DESIGN

Item	3899+15 – 3957+15
PIPE / COATING	1
SLOPE DISTANCE	5972'
CLASS LOCATION / HCA	1

ENVIRONMENTAL

CONSTRUCTION EXCLUSION (3899+15 – 3957+15): TIME OF YEAR RESTRICTION: TIMBER TO BE DOWN BY TO MAY 31, 2017

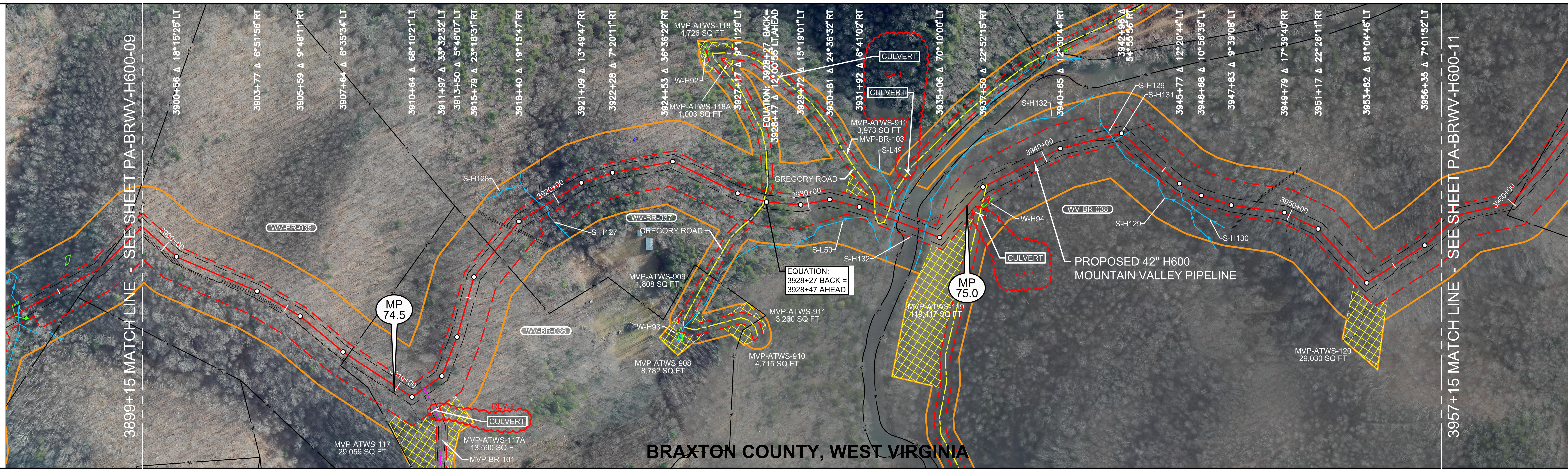
WETLAND / STREAM	S-H127	S-L50	S-L49	S-H132	S-H129	S-H131	S-H130
Length	4 LF	1 LF	8 LF	114 LF	3 LF	2 LF	2 LF

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



AERIAL PHOTOGRAPHY DATE: APRIL 2015 & JANUARY 2016

REFERENCE DRAWINGS

DRAWING NO.	DESCRIPTION

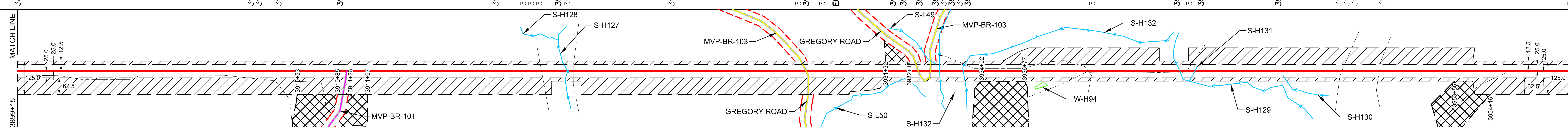
REV 4.0.0 - ISSUED TO FERC

HORIZONTAL STATIONING

3899+15 MATCH LINE
3907+85 PROPERTY LINE
3907+91 PROPERTY CORNER 8'RT
3908+89 PROPERTY CORNER 8'RT
3911+18 ACCESS RD–PERMANENT(MVP–BR–101)
3917+00 PROPERTY LINE
3918+02 EDGE OF DIRT
3918+07 ℄ FIELD ROAD(DIRT)
3918+11 EDGE OF DIRT
3919+50 ℄ STREAM(S–H127)
3919+68 ℄ TRAIL(DIRT)
3923+33 SENSITIVE AREA 105'LT
3928+12 EDGE OF DIRT
3928+17 ℄ GREGORY ROAD
ACCESS RD – TEMPORARY(MVP–BR–103)
3928+22 EDGE OF DIRT
EQUATION: 3928+27 BACK= 3928+47 AHEAD
3932+28 ℄ STREAM(S–L50)27'LT
3932+53 ℄ GREGORY ROAD
ACCESS RD – TEMPORARY(MVP–BR–103)
3932+98 ℄ GREGORY ROAD
ACCESS RD – TEMPORARY(MVP–BR–103)
3933+33 STREAM BANK(S–H132)
3933+43 PROPERTY LINE
3933+90 ℄ LITTLE KANAWAH RIVER
3934+22 PROPERTY LINE
3934+47 STREAM BANK(S–H132)
3939+28 ℄ FIELD ROAD(DIRT)
3942+56 ℄ STREAM(S–H129)
3942+90 ℄ FIELD ROAD(DIRT)
3943+06 ℄ STREAM(S–H131)
3945+91 ℄ STREAM BANK(S–H130)19'LT
3948+49 EDGE OF DIRT
3948+52 ℄ FIELD ROAD(DIRT)
3948+56 EDGE OF DIRT
3949+91 ℄ FIELD ROAD(DIRT)
3957+15 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

3899+15 –								– 3957+15
1	3	1	3	2	3	2	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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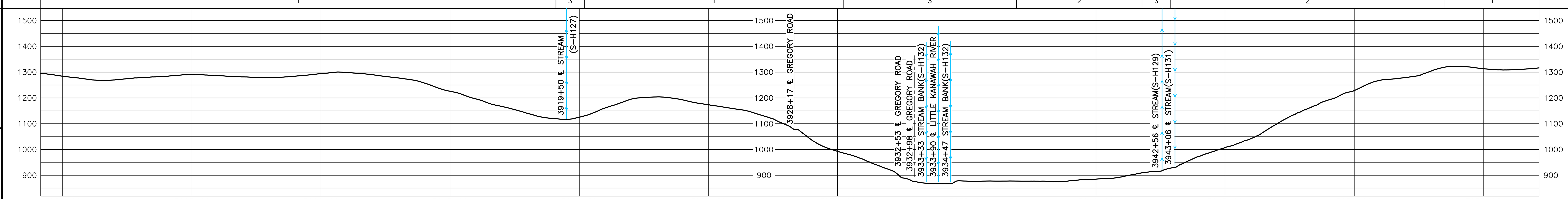
13 -
14 -
15 -
16 -

PROFILE



REVISIONS

REV.	BY	DATE	DESCRIPTION
0	HEI	10-15-15	REV. 4.0.0 ISSUED TO FERC
1	HEI	4-11-16	FERC DATA REQUEST NO.2

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
1	5992	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

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220 Hoover Boulevard, Suite 2, Holland, Michigan 49423-3766, T 616-392-5938 F 616-392-2116
26555 Evergreen Rd. Suite. 430, Southfield, Michigan 48076, T 248-827-7322 F 248-827-7549
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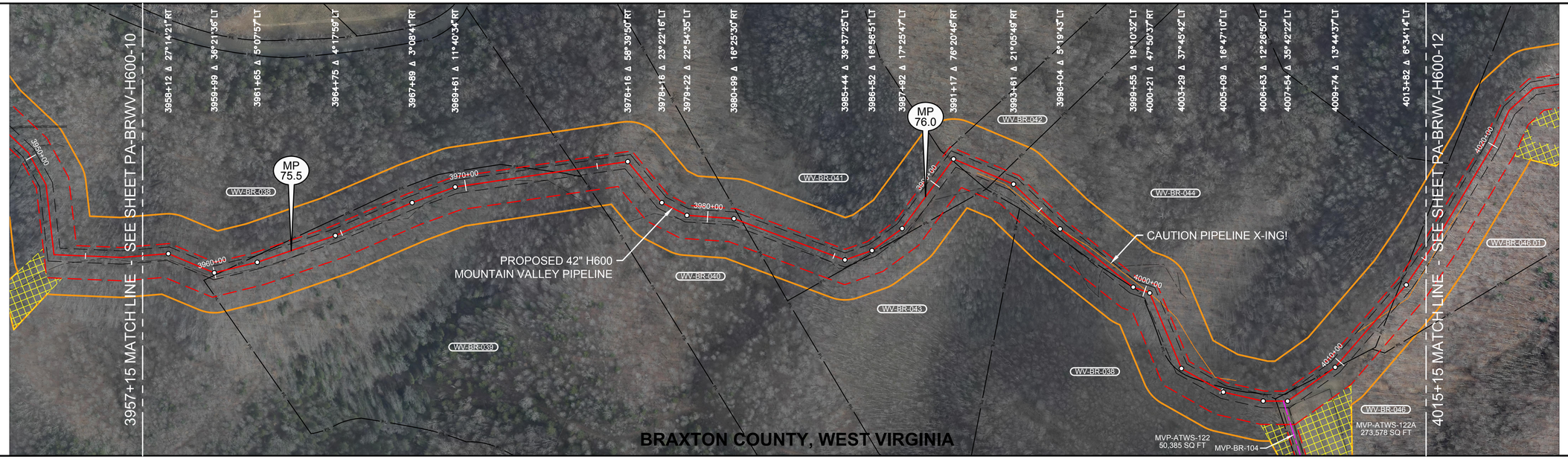
Mountain Valley PIPELINE

PIPELINE ALIGNMENT
MOUNTAIN VALLEY PROJECT - H600 LINE
SALT LICK DIST., BRAXTON CO.,W.V.
STA. 3899+15 TO STA. 3957+15

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-BRWV-H600 -10	
SHEET 81 OF 326	REV. 1
DATE OF PLOT: 04/19/16 10:43 AM	

RIGHT-OF-WAY & OWNERSHIP DATA

		3957+15	WV-BR-038 258 LF 259 SLOPE	3959+73	WV-BR-038 317 LF 318 SLOPE / WV-BR-039	3962+90	WV-BR-039 926 LF 932 SLOPE	3972+16	WV-BR-038 206 LF 207 SLOPE / WV-BR-039	3974+22	WV-BR-040 666 LF 674 SLOPE	3980+88	WV-BR-041 / WV-BR-040 149 LF 149 SLOPE	3982+37	WV-BR-041 270 LF 271 SLOPE	3985+07	WV-BR-041 / WV-BR-043 417 LF 419 SLOPE	3989+24	WV-BR-041 185 LF 189 SLOPE	3991+09	WV-BR-042 / WV-BR-041 141 LF 141 SLOPE	3992+50	WV-BR-042 / WV-BR-043 24 LF 24 SLOPE	3992+74	WV-BR-042 / WV-BR-044 40 LF 40 SLOPE	3993+14	WV-BR-044 / WV-BR-043 127 LF 127 SLOPE	3994+41	WV-BR-044 / WV-BR-038 / WV-BR-043 24 LF 25 SLOPE	3994+66	WV-BR-044 / WV-BR-038 1245 LF 1262 SLOPE	4007+11	WV-BR-044 / WV-BR-046 405 LF 410 SLOPE	4011+16	WV-BR-044 / WV-BR-046.01 335 LF 339 SLOPE	4014+51	WV-BR-046.01 64 LF 64 SLOPE	4015+15
DESIGN	PIPE / COATING	3957+15	1																																4015+15
	SLOPE DISTANCE		5850'																																
	CLASS LOCATION / HCA		1																																
ENVIRONMENTAL	CONSTRUCTION EXCLUSION	3957+15	TIME OF YEAR RESTRICTION: TIMBER TO BE DOWN BY TO MAY 31, 2017																																4015+15
	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

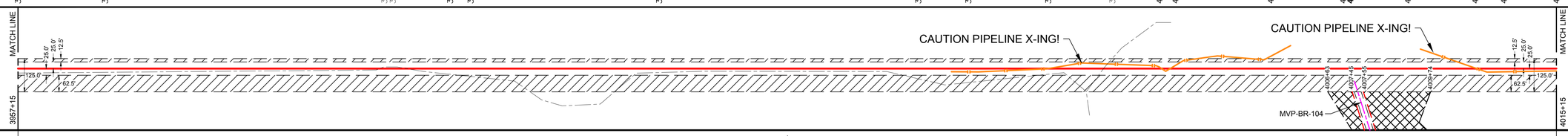
DRAWING NO.	DESCRIPTION

HORIZONTAL STATIONING

3957+15 MATCH LINE | 3960+43 PROPERTY LINE | 3970+96 ℄ TRAIL(DIRT) 3971+18 ℄ TRAIL(DIRT) | 3973+44 PROPERTY LINE | 3974+22 PROPERTY LINE | 3981+32 PROPERTY LINE | 3991+09 PROPERTY LINE | 3992+98 PROPERTY LINE | 3995+99 PIPELINE – FOREIGN – MOMENTUM – PROPOSED | 3998+41 ℄ FIELD ROAD(DIRT) | 4000+19 PIPELINE – FOREIGN – MOMENTUM – PROPOSED | 4000+22 PIPELINE – FOREIGN – MOMENTUM – PROPOSED | 4004+38 PROPERTY LINE | 4007+11 PROPERTY LINE – PERMANENT (MVP–BR–104) 4007+38 ACCESS ROAD | 4009+55 PROPERTY LINE | 4012+09 PIPELINE – FOREIGN – MOMENTUM – PROPOSED | 4013+17 PROPERTY LINE | 4015+15 MATCH LINE

WORK SPACE

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



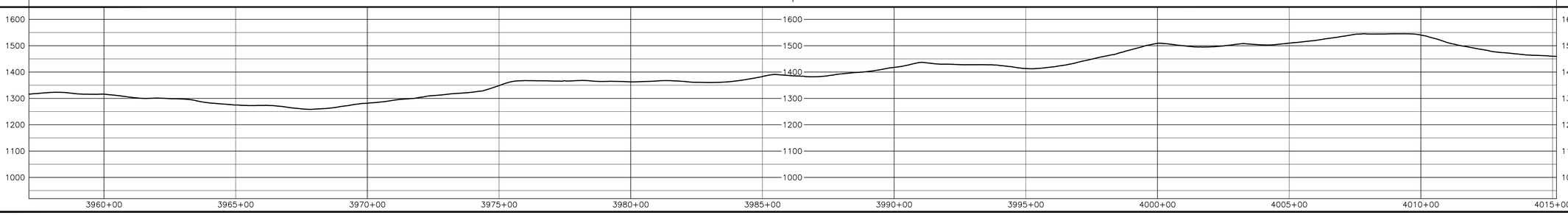
CONSTRUCTION METHOD

1

CONSTRUCTION METHOD KEY

1 - TYPICAL R/W CONFIGURATION
2 - TYPICAL R/W CONFIGURATION
3 - TYPICAL "SKINNEY" FOR WATER BODY
4 -
5 -
6 -
7 -
8 -
9 -
10 -
11 -
12 -
13 -
14 -
15 -
16 -

PROFILE



REV 4.0.0 - ISSUED TO FERC

AERIAL PHOTOGRAPHY DATE: APRIL 2015 & JANUARY 2016

REVISIONS

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

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
1	5850	42"O.D. X 0.617"W.T. 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
-	-	-

APPROVED FOR FERC

REV.	BY	DATE
0	HRR	10-15-15

HOLLAND ENGINEERING
220 Hoover Boulevard, Suite 2 | 26555 Evergreen Rd, Suite 430
Holland, Michigan 49423-3786 | Southfield, Michigan 48076
T 616.396.0058 F 616.796.0327 | T 248.557.7220 F 248.557.7949
www.hollandengineering.com

Mountain Valley PIPELINE

PIPELINE ALIGNMENT
MOUNTAIN VALLEY PROJECT - H600 LINE
SALT LICK DIST., BRAXTON CO.,W.V.
STA. 3957+15 TO STA. 4015+15

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-BRWV-H600 -11
SHEET 82 OF 326	REV. 0
DATE OF PLOT:	04/19/16 10:44 AM

RIGHT-OF-WAY & OWNERSHIP DATA

Station	Parcel	Length
4015+15 – 4030+47	WV-BR-046.01	1532 LF, 1592 SLOPE
4030+47 – 4032+13	WV-BR-046.01 / WV-BR-046.02	166 LF, 188 SLOPE
4032+13 – 4056+83	WV-BR-046.02	2470 LF, 2592 SLOPE
4056+83 – 4057+20	WV-BR-046.02 / WV-BR-046.03	37 LF, 37 SLOPE

DESIGN

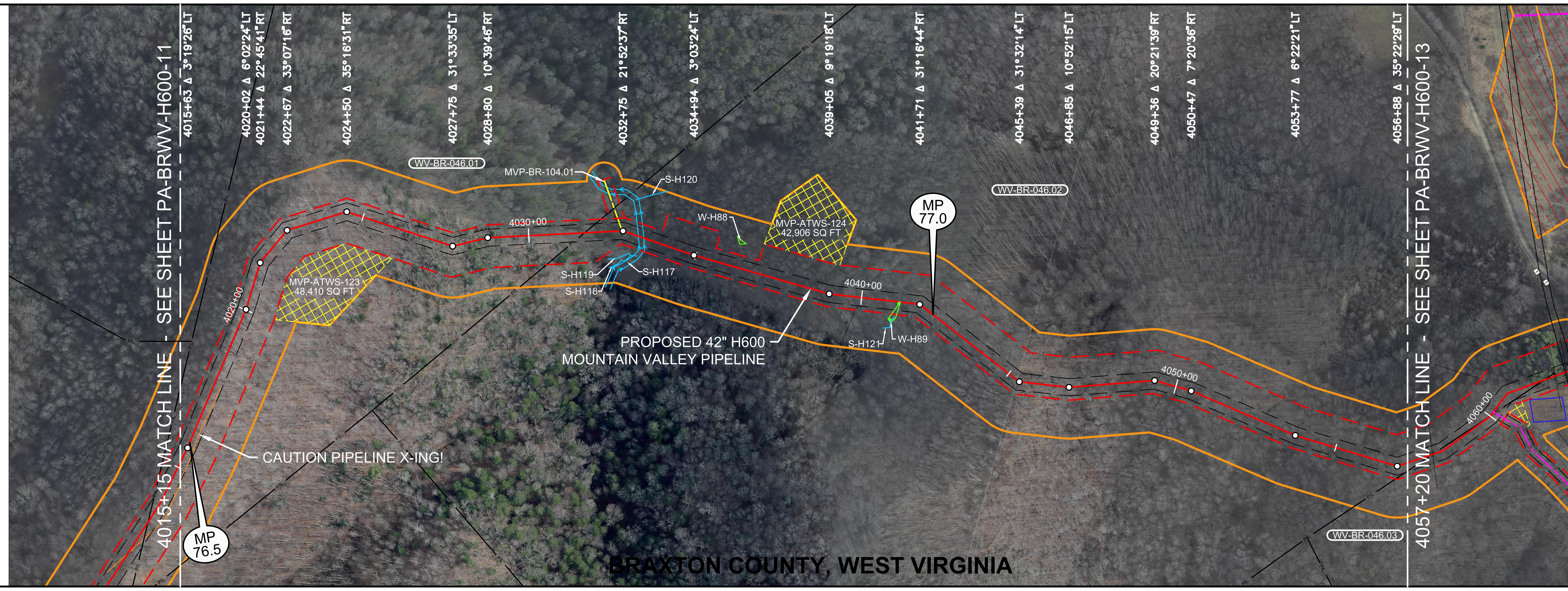
	4015+15 – 4057+20
PIPE / COATING	1
SLOPE DISTANCE	4409'
CLASS LOCATION / HCA	1

ENVIRONMENTAL

CONSTRUCTION EXCLUSION	4015+15 – 4057+20: TIME OF YEAR RESTRICTION: TIMBER TO BE DOWN BY TO MAY 31, 2017
WETLAND / STREAM	S-H117 16 LF; W-H89 22 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
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- ELEC/GAS/WTR METER
- PEDESTAL - UTILITY
- MH - SANITARY/WATER
- CATCH BASIN - CULVERT
- ADDITIONAL TEMPORARY WORK SPACE(ATWS)
- ABOVE GROUND FACILITY
- LIMITS OF DISTURBANCE

REV 4.0.0 - ISSUED TO FERC

REFERENCE DRAWINGS

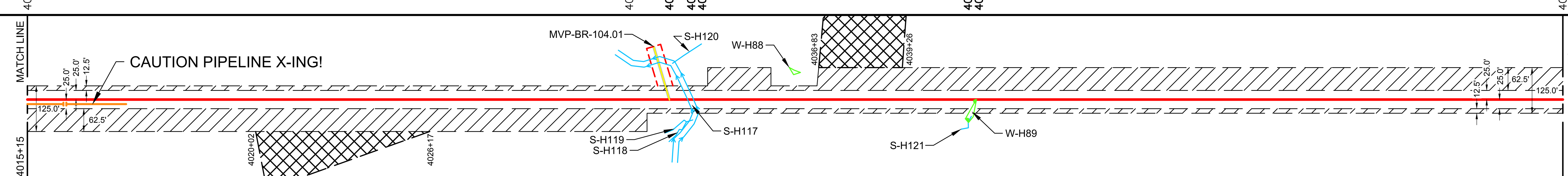
DRAWING NO.	DESCRIPTION

HORIZONTAL STATIONING

- 4015+15 MATCH LINE
- 4031+63 PROPERTY LINE
- 4032+73 ACCESS ROAD – TEMPORARY (MVP–BR–104.01)
- 4033+23 STREAM BANK(S–H117)
- 4033+39 STREAM BANK(S–H117)
- 4040+93 BEGIN WETLAND(W–H89)37'RT
- 4030+48 END WETLAND(W–H89)1'RT
- 4057+20 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

4015+15 – 4032+73				
1	3	2	3	2

CONSTRUCTION METHOD KEY
1 - TYPICAL R/W CONFIGURATION
2 - TYPICAL R/W CONFIGURATION
3 - TYPICAL "SKINNEY" FOR WATER BODY
4 -
5 -
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8 -
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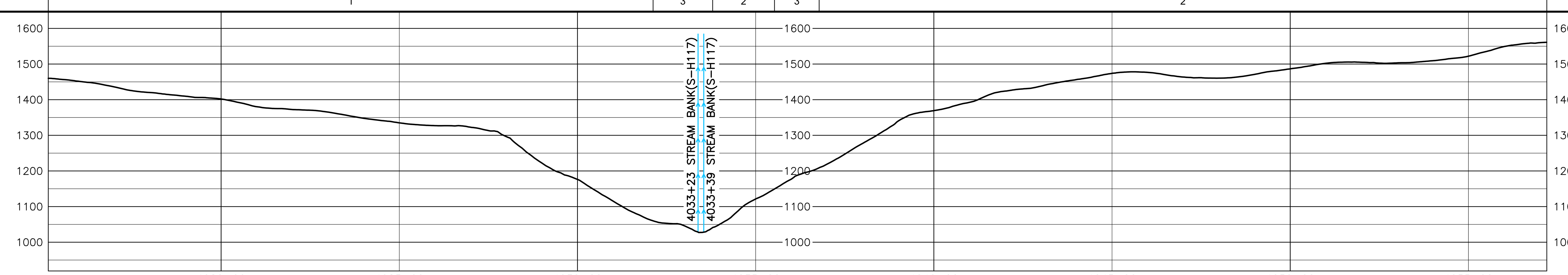
12 -
13 -
14 -
15 -
16 -

PROFILE



HOLLAND ENGINEERING
220 Hoover Boulevard, Suite 2, Holland, Michigan 49423-3766, T 616-392-5938 F 616-392-2116
26555 Evergreen Rd. Suite. 430, Southfield, Michigan 48076, T 248-827-7322 F 248-827-7549
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	4409	42"O.D. X 0.617"W.T., X-70, FUSION BONDED EPOXY
		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
	.	.	.

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

Mountain Valley PIPELINE

PIPELINE ALIGNMENT

MOUNTAIN VALLEY PROJECT - H600 LINE SALT LICK DIST., BRAXTON CO.,W.V. STA. 4015+15 TO STA. 4057+20

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-BRWV-H600 -12	
SHEET 83 OF 326	REV. 0
DATE OF PLOT: 04/19/16 10:44 AM	