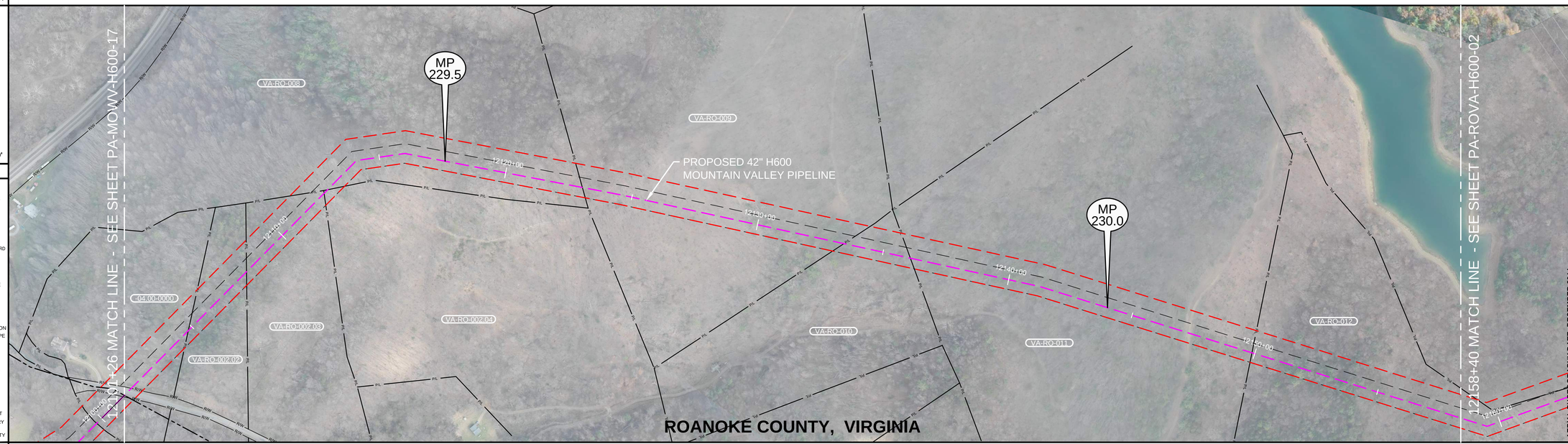
RIGHT-OF-WAY & OWNERSHIP DATA		12101+26		12158+40
DESIGN	PIPE / COATING	12101+26		12158+40
	SLOPE DISTANCE			
	CLASS LOCATION / HCA	3	1	
ENVIRONMENTAL	CONSTRUCTION EXCLUSION			
	WETLAND / STREAM			
	SEDIMENT BARRIER LEFT			
	SEDIMENT BARRIER RIGHT			

0' 100' 200' 400'

PLAN VIEW

LEGEND

- PROPOSED 42"PIPELINE
- NON-SURVEYED C/L
- 500' TICK MARK
- EXISTING PIPELINE
- WORK SPACE LIMITS
- PERMANENT ACCESS RD
- TEMPORARY ACCESS RD
- LAYDOWN/CONTRACTOR YARD
- PROPERTY LINE
- ROAD RIGHT-OF-WAY
- FENCE LINE
- OVERHEAD POWER
- OVERHEAD TELEPHONE
- C/L STREAM
- EDGE OF WATER
- C/L ROAD
- C/L RAILROAD
- WETLAND
- 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



REFERENCE DRAWINGS

DRAWING NO.	DESCRIPTION

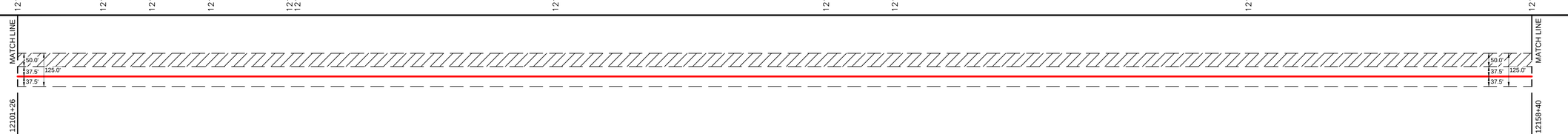
REV 3.2.5 ISSUED FOR FERC

HORIZONTAL STATIONING

12101+26 M.L.,END MONTGOMERY,BEG ROANOKE
12101+64 RIGHT-OF-WAY
12104+80 PROPERTY LINE
12108+02 PROPERTY LINE
12112+31 PROPERTY LINE
12112+51 PROPERTY LINE
12123+04 PROPERTY LINE
12133+44 PROPERTY LINE
12136+09 PROPERTY LINE
12149+89 PROPERTY LINE
12158+40 MATCH LINE

WORK SPACE

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



CONSTRUCTION METHOD

CONSTRUCTION METHOD KEY

1 -
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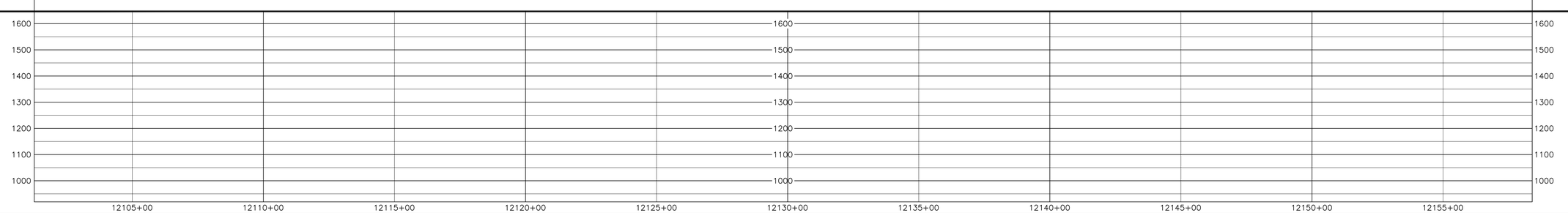
16 -

PROFILE



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REVISIONS

REV.	BY	DATE	DESCRIPTION

AERIAL PHOTOGRAPHY DATE: DECEMBER 2014

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
		MATERIAL
		MATERIAL
		SEDIMENT BARRIER
		CLASS LOCATION
		TYPE 1 TEST STATION - PIPELINE
		TYPE 4 TEST STATION - FOREIGN CROSSING

APPROVED FOR CONSTRUCTION			APPROVED FOR BIDDING			APPROVED FOR FERC		
REV.	BY	DATE	REV.	BY	DATE	REV.	BY	DATE
						0		

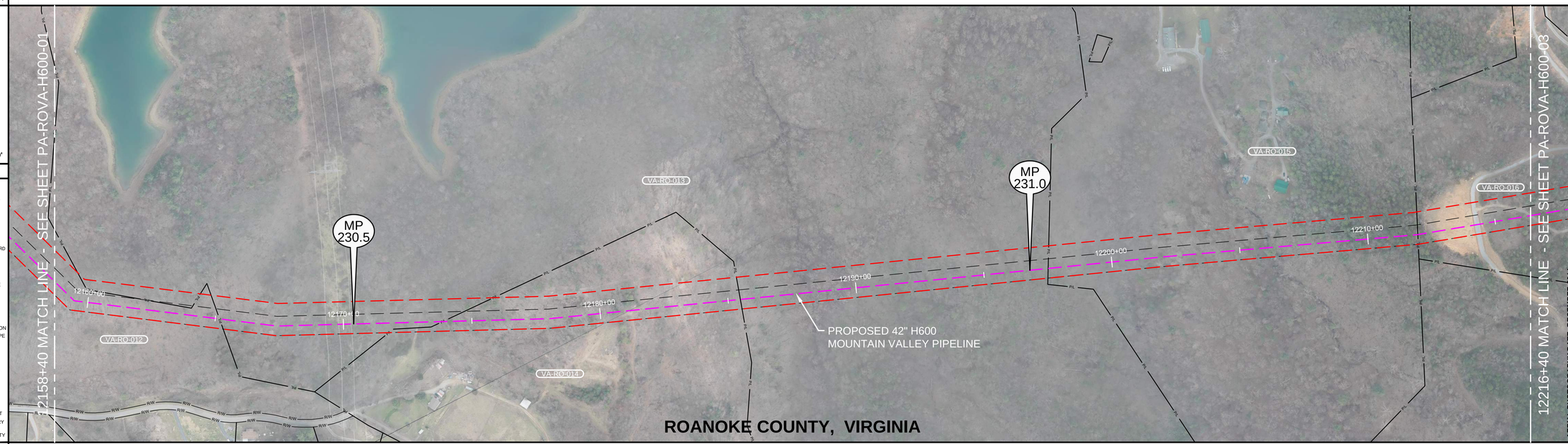
Mountain Valley

PIPELINE ALIGNMENT

MOUNTAIN VALLEY PROJECT - H600 LINE
GREEN HILL PCT.,ROANOKE CO.,VA.
STA. 12101+26 TO STA. 12158+40

HORZ. SCALE: 1" = 200'	
DRAWN BY: HEI(DRF)	02/11/15
DRAFTING CK:	.
ENGINEERING CK:	.
CONSTRUCTION CK:	.
ENVIRONMENTAL CK:.	.
AFE/P.O.NO.:	
HEI PROJECT NO.: 14-10-052	
DRAWING NO.: PA-ROVA-H600 -01	
SHEET 249 OF 312	REV. 0
DATE OF PLOT: 05/21/15 12:24 PM	

RIGHT-OF-WAY & OWNERSHIP DATA		12159+40	12216+40
DESIGN	PIPE / COATING	12159+40	12216+40
	SLOPE DISTANCE		
	CLASS LOCATION / HCA	1	
ENVIRONMENTAL	CONSTRUCTION EXCLUSION		
	WETLAND / STREAM		
	SEDIMENT BARRIER LEFT		
	SEDIMENT BARRIER RIGHT		



0' 100' 200' 400'

PLAN VIEW

LEGEND

- PROPOSED 42"PIPELINE
- NON-SURVEYED C/L
- 500' TICK MARK
- EXISTING PIPELINE
- WORK SPACE LIMITS
- PERMANENT ACCESS RD
- TEMPORARY ACCESS RD
- LAYDOWN/CONTRACTOR YARD
- PROPERTY LINE
- ROAD RIGHT-OF-WAY
- FENCE LINE
- OVERHEAD POWER
- OVERHEAD TELEPHONE
- C/L STREAM
- EDGE OF WATER
- C/L ROAD
- C/L RAILROAD
- WETLAND
- 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

REFERENCE DRAWINGS

DRAWING NO.	DESCRIPTION

REV 3.2.5 ISSUED FOR FERC

HORIZONTAL STATIONING

12158+40 MATCH LINE | 12165+16 PROPERTY LINE | 12173+86 PROPERTY LINE | 12185+48 PROPERTY LINE | 12197+51 PROPERTY LINE | 12211+95 PROPERTY LINE | 12216+40 MATCH LINE

WORK SPACE

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

MATCH LINE 12158+40 — 50.0' 37.5' 125.0' 37.5' — MATCH LINE 12216+40

CONSTRUCTION METHOD

CONSTRUCTION METHOD KEY

1 -
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16 -

PROFILE

1600 1500 1400 1300 1200 1100 1000

12160+00 12165+00 12170+00 12175+00 12180+00 12185+00 12190+00 12195+00 12200+00 12205+00 12210+00 12215+00

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REVISIONS

REV.	BY	DATE	DESCRIPTION

AERIAL PHOTOGRAPHY DATE: DECEMBER 2014

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
	-	MATERIAL
	-	MATERIAL
	-	SEDIMENT BARRIER
	-	ACCESS ROAD
	-	TYPE 1 TEST STATION - PIPELINE
	-	TYPE 4 TEST STATION - FOREIGN CROSSING

APPROVED FOR CONSTRUCTION			APPROVED FOR BIDDING			APPROVED FOR FERC		
REV.	BY	DATE	REV.	BY	DATE	REV.	BY	DATE
	-	-		-	-	0	-	-

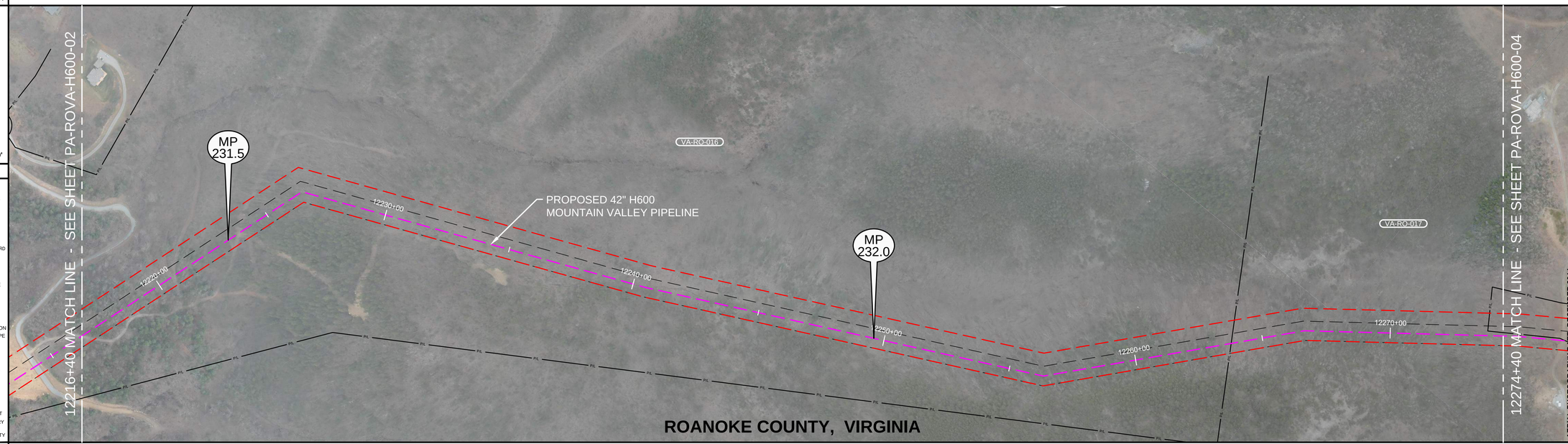
Mountain Valley

PIPELINE ALIGNMENT

MOUNTAIN VALLEY PROJECT - H600 LINE
GREEN HILL PCT.,ROANOKE CO.,VA.
STA. 12158+40 TO STA. 12216+40

HORZ. SCALE: 1" = 200'	
DRAWN BY: HEI(DRF)	02/11/15
DRAFTING CK:	-
ENGINEERING CK:	-
CONSTRUCTION CK:	-
ENVIRONMENTAL CK:.	-
AFE/P.O.NO.:	
HEI PROJECT NO.: 14-10-052	
DRAWING NO.:	
PA-ROVA-H600 -02	
SHEET 250 OF 312	REV. 0
DATE OF PLOT: 05/21/15 12:25 PM	

RIGHT-OF-WAY & OWNERSHIP DATA		12216+40	12274+40
DESIGN	PIPE / COATING	12216+40	12274+40
	SLOPE DISTANCE		
	CLASS LOCATION / HCA	1	
ENVIRONMENTAL	CONSTRUCTION EXCLUSION		
	WETLAND / STREAM		
	SEDIMENT BARRIER LEFT		
	SEDIMENT BARRIER RIGHT		



0' 100' 200' 400'

PLAN VIEW

LEGEND

- PROPOSED 42"PIPELINE
- NON-SURVEYED C/L
- 500' TICK MARK
- EXISTING PIPELINE
- WORK SPACE LIMITS
- PERMANENT ACCESS RD
- TEMPORARY ACCESS RD
- LAYDOWN/CONTRACTOR YARD
- PROPERTY LINE
- ROAD RIGHT-OF-WAY
- FENCE LINE
- OVERHEAD POWER
- OVERHEAD TELEPHONE
- C/L STREAM
- EDGE OF WATER
- C/L ROAD
- C/L RAILROAD
- WETLAND
- 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

REFERENCE DRAWINGS

DRAWING NO.	DESCRIPTION

REV 3.2.5 ISSUED FOR FERC

HORIZONTAL STATIONING

12216+40 MATCH LINE | 12263+77 PROPERTY LINE | 12274+40 MATCH LINE

WORK SPACE

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

MATCH LINE 12216+40 — 50.0' 37.5' 125.0' 37.5' — MATCH LINE 12274+40

CONSTRUCTION METHOD

CONSTRUCTION METHOD KEY

1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 -

PROFILE

1600 1500 1400 1300 1200 1100 1000

12220+00 12225+00 12230+00 12235+00 12240+00 12245+00 12250+00 12255+00 12260+00 12265+00 12270+00

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REVISIONS

REV.	BY	DATE	DESCRIPTION

AERIAL PHOTOGRAPHY DATE: DECEMBER 2014

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
	-	MATERIAL
	-	MATERIAL
	-	SEDIMENT BARRIER
	-	ACCESS ROAD
	-	TYPE 1 TEST STATION - PIPELINE
	-	TYPE 4 TEST STATION - FOREIGN CROSSING

APPROVED FOR CONSTRUCTION			APPROVED FOR BIDDING			APPROVED FOR FERC		
REV.	BY	DATE	REV.	BY	DATE	REV.	BY	DATE
	-	-		-	-	0	-	-

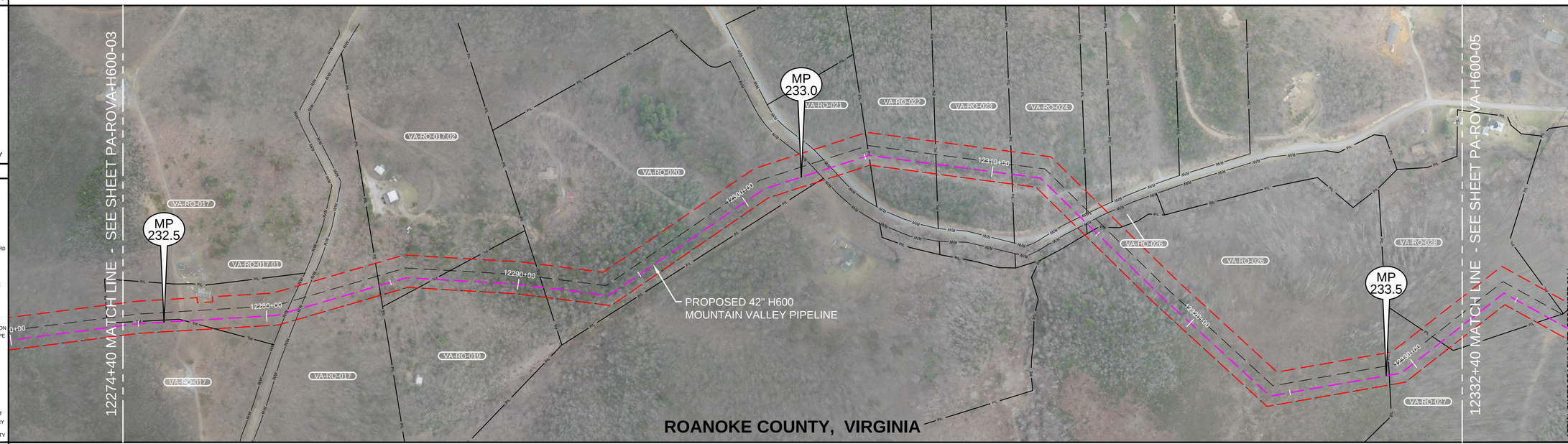
Mountain Valley

PIPELINE ALIGNMENT

MOUNTAIN VALLEY PROJECT - H600 LINE
GREEN HILL PCT.,ROANOKE CO.,VA.
STA. 12216+40 TO STA. 12274+40

HORZ. SCALE: 1" = 200'	
DRAWN BY: HEI(DRF)	02/11/15
DRAFTING CK:	-
ENGINEERING CK:	-
CONSTRUCTION CK:	-
ENVIRONMENTAL CK:.	-
AFE/P.O.NO.:	
HEI PROJECT NO.: 14-10-052	
DRAWING NO.:	
PA-ROVA-H600 -03	
SHEET 251 OF 312	REV. 0
DATE OF PLOT: 05/21/15 12:25 PM	

RIGHT-OF-WAY & OWNERSHIP DATA		12274+40	12332+40
DESIGN	PIPE / COATING	12274+40	12332+40
	SLOPE DISTANCE		
	CLASS LOCATION / HCA	1	
ENVIRONMENTAL	CONSTRUCTION EXCLUSION		
	WETLAND / STREAM		
	SEDIMENT BARRIER LEFT		
	SEDIMENT BARRIER RIGHT		



0' 100' 200' 400'

PLAN VIEW

LEGEND

- PROPOSED 42"PIPELINE
- NON-SURVEYED C/L
- 500' TICK MARK
- EXISTING PIPELINE
- WORK SPACE LIMITS
- PERMANENT ACCESS RD
- TEMPORARY ACCESS RD
- LAYDOWN/CONTRACTOR YARD
- PROPERTY LINE
- ROAD RIGHT-OF-WAY
- FENCE LINE
- OVERHEAD POWER
- OVERHEAD TELEPHONE
- C/L STREAM
- EDGE OF WATER
- C/L ROAD
- C/L RAILROAD
- WETLAND
- 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

REFERENCE DRAWINGS

DRAWING NO.	DESCRIPTION

REV 3.2.5 ISSUED FOR FERC

HORIZONTAL STATIONING

12274+40	MATCH LINE
12276+83	PROPERTY LINE
12280+79	RIGHT-OF-WAY
12281+35	RIGHT-OF-WAY
12284+54	PROPERTY LINE
12286+72	PROPERTY LINE
12290+99	PROPERTY LINE
12303+06	RIGHT-OF-WAY
12303+61	RIGHT-OF-WAY
12305+16	PROPERTY LINE
12307+80	PROPERTY LINE
12310+77	PROPERTY LINE
12314+05	RIGHT-OF-WAY
12314+41	RIGHT-OF-WAY
12314+78	PROPERTY LINE
12328+92	PROPERTY LINE
12331+35	PROPERTY LINE
12332+40	MATCH LINE

WORK SPACE

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

MATCH LINE 12274+40 — 50.0' 37.5' 125.0' 37.5' — 12332+40 MATCH LINE

CONSTRUCTION METHOD

CONSTRUCTION METHOD KEY

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16 -

PROFILE

1600 1500 1400 1300 1200 1100 1000

12275+00 12280+00 12285+00 12290+00 12295+00 12300+00 12305+00 12310+00 12315+00 12320+00 12325+00 12330+00

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www.hollandengineering.com

REVISIONS

REV.	BY	DATE	DESCRIPTION

AERIAL PHOTOGRAPHY DATE: DECEMBER 2014

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
		MATERIAL
		MATERIAL
		SEDIMENT BARRIER
		ACCESS ROADS
		TYPE 1 TEST STATION - PIPELINE
		TYPE 4 TEST STATION - FOREIGN CROSSING

APPROVED FOR CONSTRUCTION			APPROVED FOR BIDDING			APPROVED FOR FERC		
REV.	BY	DATE	REV.	BY	DATE	REV.	BY	DATE
						0		

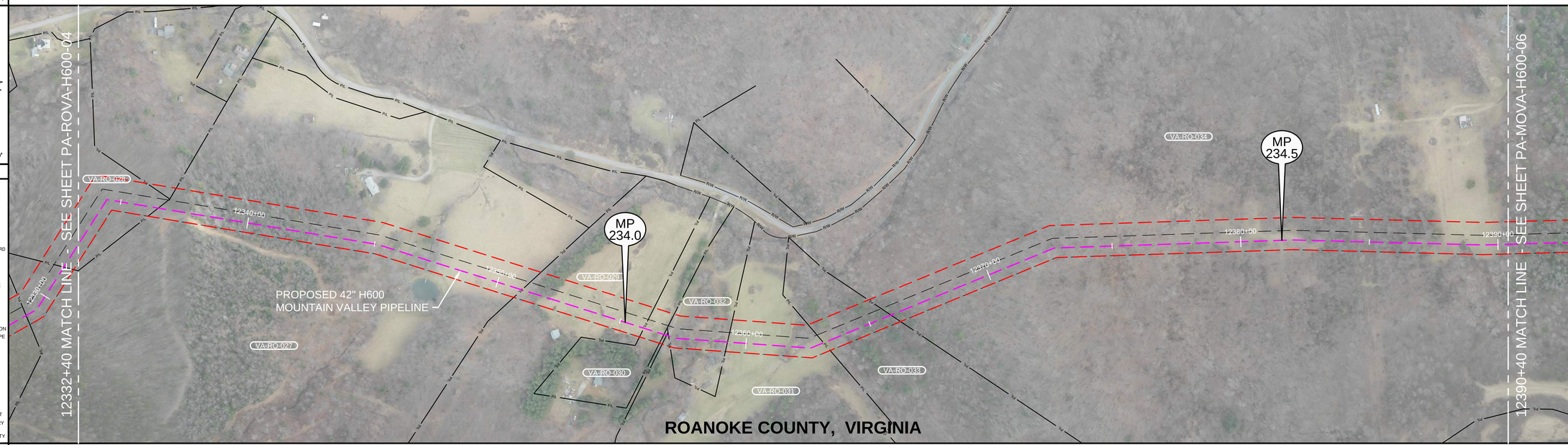
Mountain Valley

PIPELINE ALIGNMENT

MOUNTAIN VALLEY PROJECT - H600 LINE
GREEN HILL & BENT MOUNTAIN PCT.,ROANOKE CO.,VA.
STA. 12274+40 TO STA. 12332+40

HORZ. SCALE: 1" = 200'	
DRAWN BY: HEI(DRF)	02/11/15
DRAFTING CK:	.
ENGINEERING CK:	.
CONSTRUCTION CK:	.
ENVIRONMENTAL CK:.	.
AFE/P.O.NO.:	
HEI PROJECT NO.: 14-10-052	
DRAWING NO.:	
PA-ROVA-H600 -04	
SHEET 252 OF 312	REV. 0
DATE OF PLOT: 05/21/15 12:25 PM	

RIGHT-OF-WAY & OWNERSHIP DATA		12332+40 / 12390+40
DESIGN	PIPE / COATING	12332+40 / 12390+40
	SLOPE DISTANCE	
	CLASS LOCATION / HCA	1
ENVIRONMENTAL	CONSTRUCTION EXCLUSION	
	WETLAND / STREAM	
	SEDIMENT BARRIER LEFT	
	SEDIMENT BARRIER RIGHT	



0' 100' 200' 400'

PLAN VIEW

LEGEND

- PROPOSED 42"PIPELINE
- NON-SURVEYED C/L
- 500' TICK MARK
- EXISTING PIPELINE
- WORK SPACE LIMITS
- PERMANENT ACCESS RD
- TEMPORARY ACCESS RD
- LAYDOWN/CONTRACTOR YARD
- PROPERTY LINE
- ROAD RIGHT-OF-WAY
- FENCE LINE
- OVERHEAD POWER
- OVERHEAD TELEPHONE
- C/L STREAM
- EDGE OF WATER
- C/L ROAD
- C/L RAILROAD
- WETLAND
- 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

REFERENCE DRAWINGS

DRAWING NO.	DESCRIPTION

REV 3.2.5 ISSUED FOR FERC

HORIZONTAL STATIONING

12332+40 MATCH LINE
12336+48 PROPERTY LINE
12350+99 PROPERTY LINE
12355+96 PROPERTY LINE
12356+78 PROPERTY LINE
12356+79 PROPERTY LINE
12356+97 PROPERTY LINE
12359+28 PROPERTY LINE
12363+06 PROPERTY LINE
12365+89 PROPERTY LINE
12390+40 MATCH LINE

WORK SPACE

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

MATCH LINE 12332+40 — 50.0' 37.5' 125.0' 37.5' — MATCH LINE 12390+40

CONSTRUCTION METHOD

CONSTRUCTION METHOD KEY

1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 -

PROFILE

1600 1500 1400 1300 1200 1100 1000

12335+00 12340+00 12345+00 12350+00 12355+00 12360+00 12365+00 12370+00 12375+00 12380+00 12385+00 12390+00

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REVISIONS

REV.	BY	DATE	DESCRIPTION

AERIAL PHOTOGRAPHY DATE: DECEMBER 2014

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
	-	MATERIAL
	-	MATERIAL
	-	SEDIMENT BARRIER
	-	ACCESS ROAD
	-	TYPE 1 TEST STATION - PIPELINE
	-	TYPE 4 TEST STATION - FOREIGN CROSSING

APPROVED FOR CONSTRUCTION			APPROVED FOR BIDDING			APPROVED FOR FERC		
REV.	BY	DATE	REV.	BY	DATE	REV.	BY	DATE
	-	-		-	-	0	-	-

Mountain Valley

PIPELINE ALIGNMENT

MOUNTAIN VALLEY PROJECT - H600 LINE
BENT MOUNTAIN PCT.,ROANOKE CO.,VA.
STA. 12332+40 TO STA. 12390+40

HORZ. SCALE: 1" = 200'	
DRAWN BY: HEI(DRF)	02/11/15
DRAFTING CK:	-
ENGINEERING CK:	-
CONSTRUCTION CK:	-
ENVIRONMENTAL CK:.	-
AFE/P.O.NO.:	
HEI PROJECT NO.: 14-10-052	
DRAWING NO.: PA-ROVA-H600 -05	
SHEET 253 OF 312	REV. 0
DATE OF PLOT: 05/21/15 12:25 PM	

RIGHT-OF-WAY & OWNERSHIP DATA		12390+40	12448+40
DESIGN	PIPE / COATING	12390+40	12448+40
	SLOPE DISTANCE		
	CLASS LOCATION / HCA	1	2
ENVIRONMENTAL	CONSTRUCTION EXCLUSION		
	WETLAND / STREAM		
	SEDIMENT BARRIER LEFT		
	SEDIMENT BARRIER RIGHT		

0' 100' 200' 400'

PLAN VIEW

LEGEND

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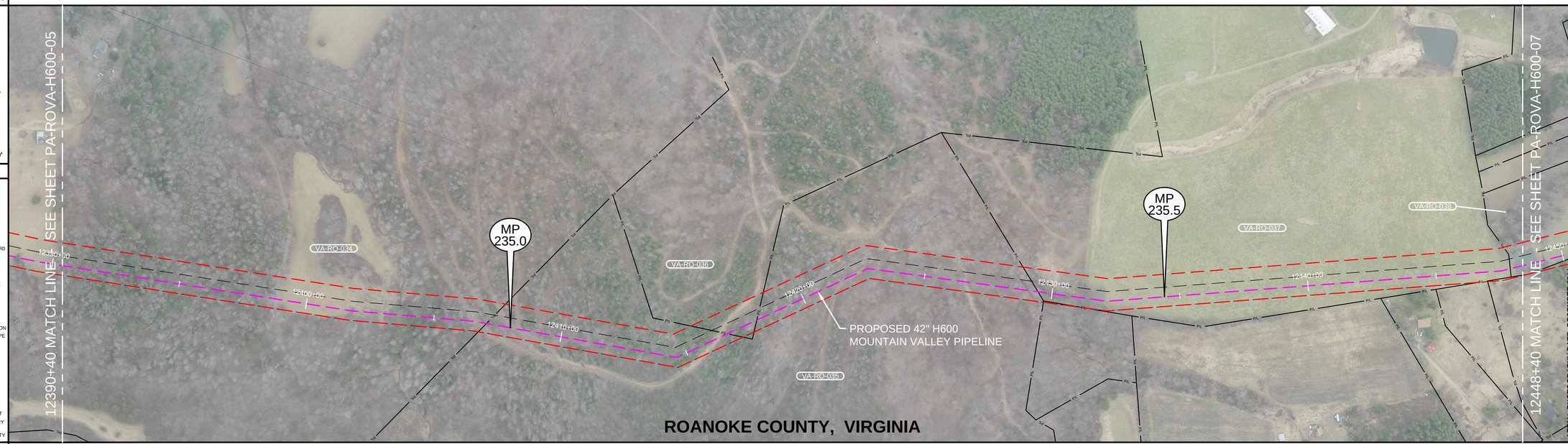
- TOWER LEG
- TREE
- GUY ANCHOR
- TANK
- GAS VALVE
- WELL - GAS/OIL/WATER/MONITORING
- POST - GATE/FENCE
- ELEC/GAS/WTR METER
- PEDESTAL - UTILITY
- MH - SANITARY/WATER
- CATCH BASIN - CULVERT
- ADDITIONAL TEMPORARY WORK SPACE(ATWS)
- ABOVE GROUND FACILITY

REFERENCE DRAWINGS

DRAWING NO.	DESCRIPTION



AERIAL PHOTOGRAPHY DATE: DECEMBER 2014

REV 3.2.5 ISSUED FOR FERC

HORIZONTAL STATIONING

12390+40 MATCH LINE | 12407+05 PROPERTY LINE | 12416+75 PROPERTY LINE | 12418+01 PROPERTY LINE | 12429+45 PROPERTY LINE | 12447+90 PROPERTY LINE | 12448+40 MATCH LINE

WORK SPACE

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

MATCH LINE 12390+40 — 50.0' 37.5' 125.0' 37.5' — 12448+40 MATCH LINE

CONSTRUCTION METHOD

CONSTRUCTION METHOD KEY

1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 -

PROFILE

1600 1500 1400 1300 1200 1100 1000

12395+00 12400+00 12405+00 12410+00 12415+00 12420+00 12425+00 12430+00 12435+00 12440+00 12445+00

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REVISIONS

REV.	BY	DATE	DESCRIPTION

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
		MATERIAL
		MATERIAL
		SEDIMENT BARRIER
		CONCRETE WEIGHT
		TYPE 1 TEST STATION - PIPELINE
		TYPE 4 TEST STATION - FOREIGN CROSSING

APPROVED FOR CONSTRUCTION			APPROVED FOR BIDDING			APPROVED FOR FERC		
REV.	BY	DATE	REV.	BY	DATE	REV.	BY	DATE
						0		

Mountain Valley

PIPELINE ALIGNMENT

MOUNTAIN VALLEY PROJECT - H600 LINE
BENT MOUNTAIN PCT.,ROANOKE CO.,VA.
STA. 12390+40 TO STA. 12448+40

HORZ. SCALE: 1" = 200'	
DRAWN BY: HEI(DRF)	02/11/15
DRAFTING CK:	.
ENGINEERING CK:	.
CONSTRUCTION CK:	.
ENVIRONMENTAL CK:.	.
AFE/P.O.NO.:	
HEI PROJECT NO.: 14-10-052	
DRAWING NO.: PA-ROVA-H600 -06	
SHEET 254 OF 312	REV. 0
DATE OF PLOT: 05/21/15 12:25 PM	

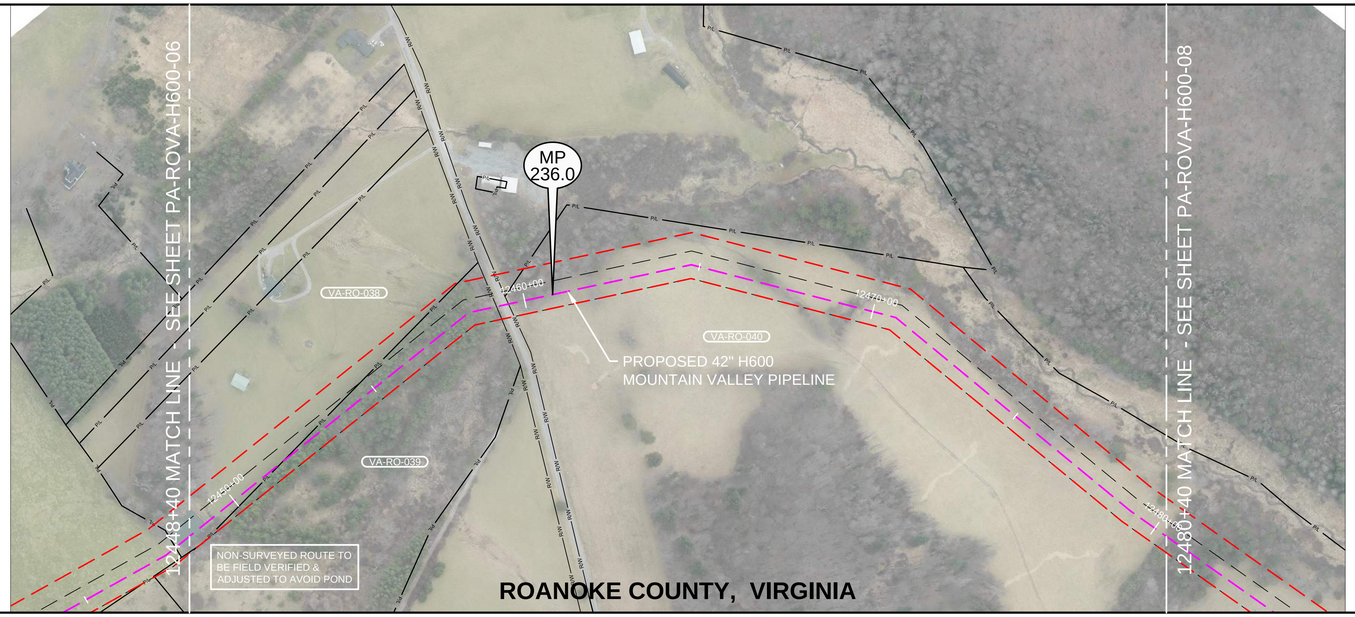
RIGHT-OF-WAY & OWNERSHIP DATA		12449+40		12449+40
DESIGN	PIPE / COATING	12449+40		12449+40
	SLOPE DISTANCE			
	CLASS LOCATION / HCA	2	1	
ENVIRONMENTAL	CONSTRUCTION EXCLUSION			
	WETLAND / STREAM			
	SEDIMENT BARRIER LEFT			
	SEDIMENT BARRIER RIGHT			

0' 100' 200' 400'

PLAN VIEW

LEGEND

- PROPOSED 42"PIPELINE
- NON-SURVEYED C/L
- 500' TICK MARK
- EXISTING PIPELINE
- WORK SPACE LIMITS
- PERMANENT ACCESS RD
- TEMPORARY ACCESS RD
- LAYDOWN/CONTRACTOR YARD
- PROPERTY LINE
- ROAD RIGHT-OF-WAY
- FENCE LINE
- OVERHEAD POWER
- OVERHEAD TELEPHONE
- C/L STREAM
- EDGE OF WATER
- C/L ROAD
- C/L RAILROAD
- WETLAND
- 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



REV 3.2.5 ISSUED FOR FERC

REFERENCE DRAWINGS

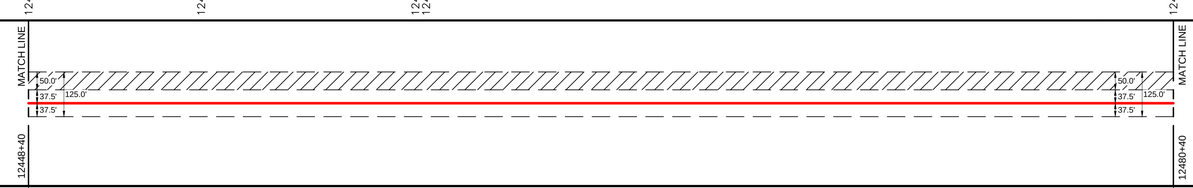
DRAWING NO.	DESCRIPTION

HORIZONTAL STATIONING

12448+40 MATCH LINE
12451+73 PROPERTY LINE
12459+20 RIGHT-OF-WAY
12459+54 RIGHT-OF-WAY
12480+40 MATCH LINE

WORK SPACE

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



CONSTRUCTION METHOD

CONSTRUCTION METHOD KEY

1 -
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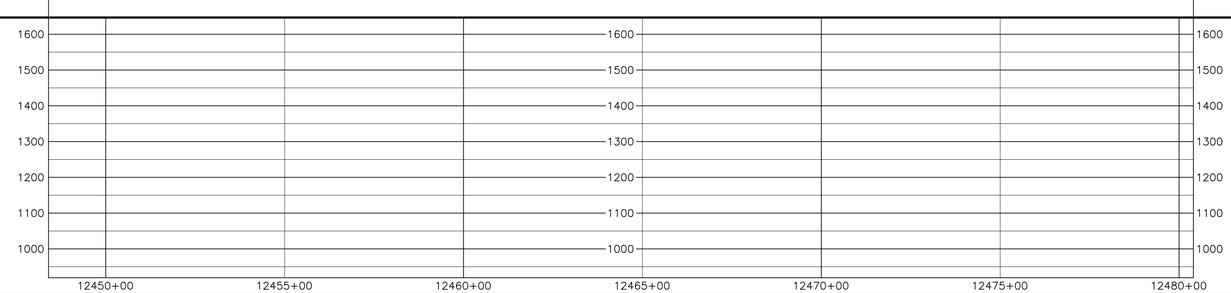
15 -
16 -

PROFILE



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REVISIONS

REV.	BY	DATE	DESCRIPTION

AERIAL PHOTOGRAPHY DATE: DECEMBER 2014

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
		MATERIAL
		MATERIAL
		SEDIMENT BARRIER
		ECO CONTROL
		TYPE 1 TEST STATION - PIPELINE
		TYPE 4 TEST STATION - FOREIGN CROSSING

APPROVED FOR CONSTRUCTION			APPROVED FOR BIDDING			APPROVED FOR FERC		
REV.	BY	DATE	REV.	BY	DATE	REV.	BY	DATE
						0		

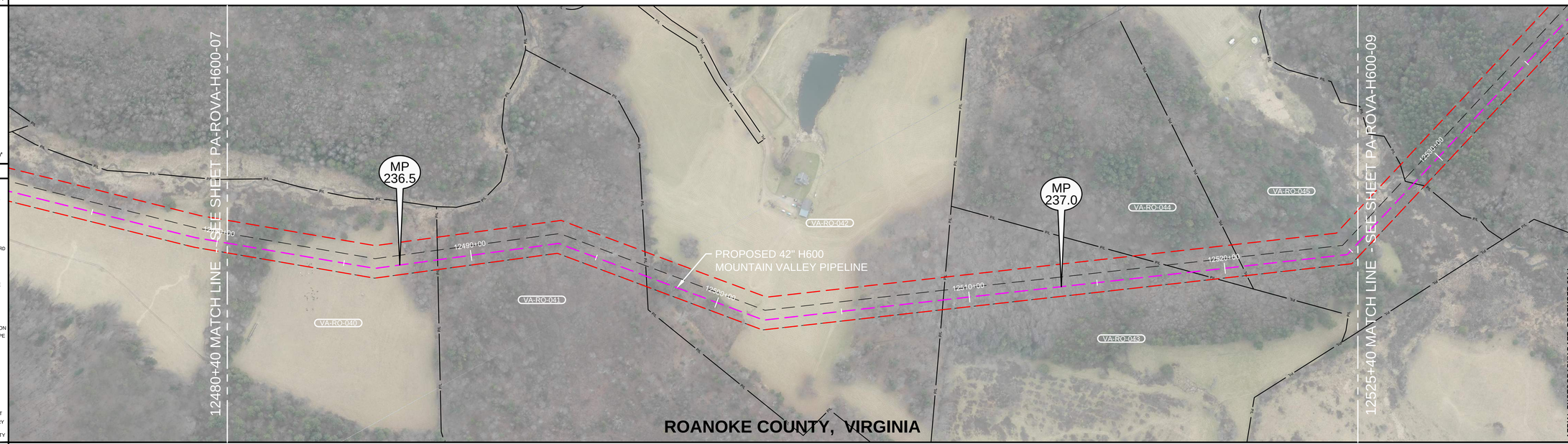
Mountain Valley

PIPELINE ALIGNMENT

MOUNTAIN VALLEY PROJECT - H600 LINE
BENT MOUNTAIN PCT.,ROANOKE CO.,VA.
STA. 12448+40 TO STA. 12480+40

HORZ. SCALE: 1" = 200'	
DRAWN BY: HEI(DRF)	02/11/15
DRAFTING CK:	.
ENGINEERING CK:	.
CONSTRUCTION CK:	.
ENVIRONMENTAL CK.:	.
AFE/P.O.NO.:	
HEI PROJECT NO.: 14-10-052	
DRAWING NO.: PA-ROVA-H600 -07	
SHEET 255 OF 312	REV. 0
DATE OF PLOT: 05/21/15 12:26 PM	

RIGHT-OF-WAY & OWNERSHIP DATA		12480+40	12525+40
DESIGN	PIPE / COATING	12480+40	12525+40
	SLOPE DISTANCE		
	CLASS LOCATION / HCA	1	
ENVIRONMENTAL	CONSTRUCTION EXCLUSION		
	WETLAND / STREAM		
	SEDIMENT BARRIER LEFT		
	SEDIMENT BARRIER RIGHT		



PLAN VIEW

LEGEND

- PROPOSED 42"PIPELINE
- NON-SURVEYED C/L
- 500' TICK MARK
- EXISTING PIPELINE
- WORK SPACE LIMITS
- PERMANENT ACCESS RD
- TEMPORARY ACCESS RD
- LAYDOWN/CONTRACTOR YARD
- PROPERTY LINE
- ROAD RIGHT-OF-WAY
- FENCE LINE
- OVERHEAD POWER
- OVERHEAD TELEPHONE
- C/L STREAM
- EDGE OF WATER
- C/L ROAD
- C/L RAILROAD
- WETLAND
- 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

REFERENCE DRAWINGS

DRAWING NO.	DESCRIPTION

REV 3.2.5 ISSUED FOR FERC

HORIZONTAL STATIONING

12480+40 MATCH LINE | 12488+69 PROPERTY LINE | 12497+08 PROPERTY LINE | 12508+98 PROPERTY LINE | 12518+69 PROPERTY LINE | 12520+68 PROPERTY LINE | 12525+40 MATCH LINE

WORK SPACE

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

MATCH LINE 12480+40 — 50.0' 37.5' 125.0' 37.5' — 12525+40 MATCH LINE

CONSTRUCTION METHOD

CONSTRUCTION METHOD KEY

1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 -

PROFILE

1600 1500 1400 1300 1200 1100 1000

12485+00 12490+00 12495+00 12500+00 12505+00 12510+00 12515+00 12520+00 12525+00

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REVISIONS

REV.	BY	DATE	DESCRIPTION

AERIAL PHOTOGRAPHY DATE: DECEMBER 2014

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
		MATERIAL
		MATERIAL
		SEDIMENT BARRIER
		ACCESS ROADS
		TYPE 1 TEST STATION - PIPELINE
		TYPE 4 TEST STATION - FOREIGN CROSSING

APPROVED FOR CONSTRUCTION			APPROVED FOR BIDDING			APPROVED FOR FERC		
REV.	BY	DATE	REV.	BY	DATE	REV.	BY	DATE
						0		

Mountain Valley

PIPELINE ALIGNMENT

MOUNTAIN VALLEY PROJECT - H600 LINE
BENT MOUNTAIN PCT.,ROANOKE CO.,VA.
STA. 12480+40 TO STA. 12525+40

HORZ. SCALE: 1" = 200'	
DRAWN BY: HEI(DRF)	02/11/15
DRAFTING CK:	.
ENGINEERING CK:	.
CONSTRUCTION CK:	.
ENVIRONMENTAL CK:.	.
AFE/P.O.NO.:	
HEI PROJECT NO.: 14-10-052	
DRAWING NO.: PA-ROVA-H600 -08	
SHEET 256 OF 312	REV. 0
DATE OF PLOT: 05/21/15 12:26 PM	

RIGHT-OF-WAY & OWNERSHIP DATA		12525+40		12565+40
DESIGN	PIPE / COATING	12525+40		12565+40
	SLOPE DISTANCE			
	CLASS LOCATION / HCA	1	2	
ENVIRONMENTAL	CONSTRUCTION EXCLUSION			
	WETLAND / STREAM			
	SEDIMENT BARRIER LEFT			
	SEDIMENT BARRIER RIGHT			

0' 100' 200' 400'

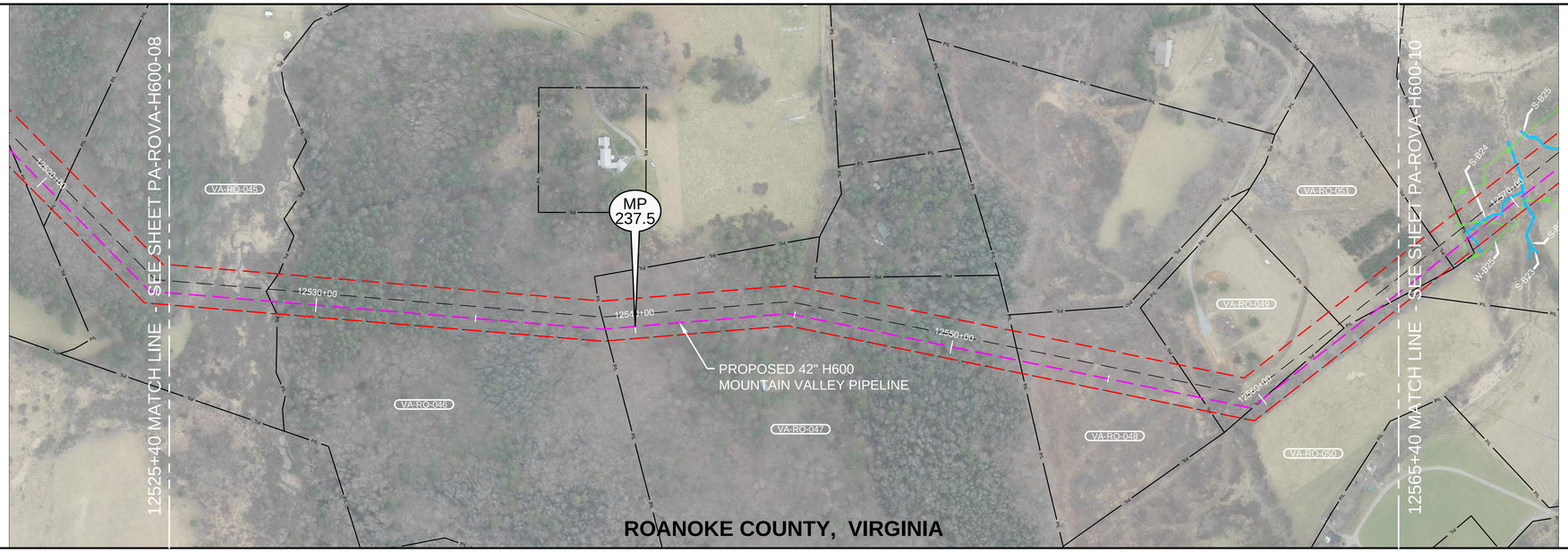
PLAN VIEW

LEGEND

- PROPOSED 42"PIPELINE
- NON-SURVEYED C/L
- 500' TICK MARK
- EXISTING PIPELINE
- WORK SPACE LIMITS
- PERMANENT ACCESS RD
- TEMPORARY ACCESS RD
- LAYDOWN/CONTRACTOR YARD
- PROPERTY LINE
- ROAD RIGHT-OF-WAY
- FENCE LINE
- OVERHEAD POWER
- OVERHEAD TELEPHONE
- C/L STREAM
- EDGE OF WATER
- C/L ROAD
- C/L RAILROAD
- WETLAND
- PI SYMBOL / MAILBOX
- PROPOSED TEST STATION
- 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

REFERENCE DRAWINGS

DRAWING NO.	DESCRIPTION



REV 3.2.5 ISSUED FOR FERC

HORIZONTAL STATIONING

12525+40 MATCH LINE | 12528+58 PROPERTY LINE | 12539+06 PROPERTY LINE | 12552+17 PROPERTY LINE | 12557+95 PROPERTY LINE | 12559+97 PROPERTY LINE | 12564+57 PROPERTY LINE | 12565+40 MATCH LINE

WORK SPACE

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

MATCH LINE 12525+40 — 50.0' 37.5' 125.0' 37.5' 50.0' 37.5' 125.0' 37.5' — MATCH LINE 12565+40

CONSTRUCTION METHOD

CONSTRUCTION METHOD KEY

1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 -

PROFILE

1600 1500 1400 1300 1200 1100 1000

12530+00 12535+00 12540+00 12545+00 12550+00 12555+00 12560+00 12565+00

AERIAL PHOTOGRAPHY DATE: DECEMBER 2014

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
		MATERIAL
		MATERIAL
		SEDIMENT BARRIER
		LOCATION TABLE
		TYPE 1 TEST STATION - PIPELINE
		TYPE 4 TEST STATION - FOREIGN CROSSING

REVISIONS

REV.	BY	DATE	DESCRIPTION

APPROVED FOR CONSTRUCTION			APPROVED FOR BIDDING			APPROVED FOR FERC		
REV.	BY	DATE	REV.	BY	DATE	REV.	BY	DATE
						0		

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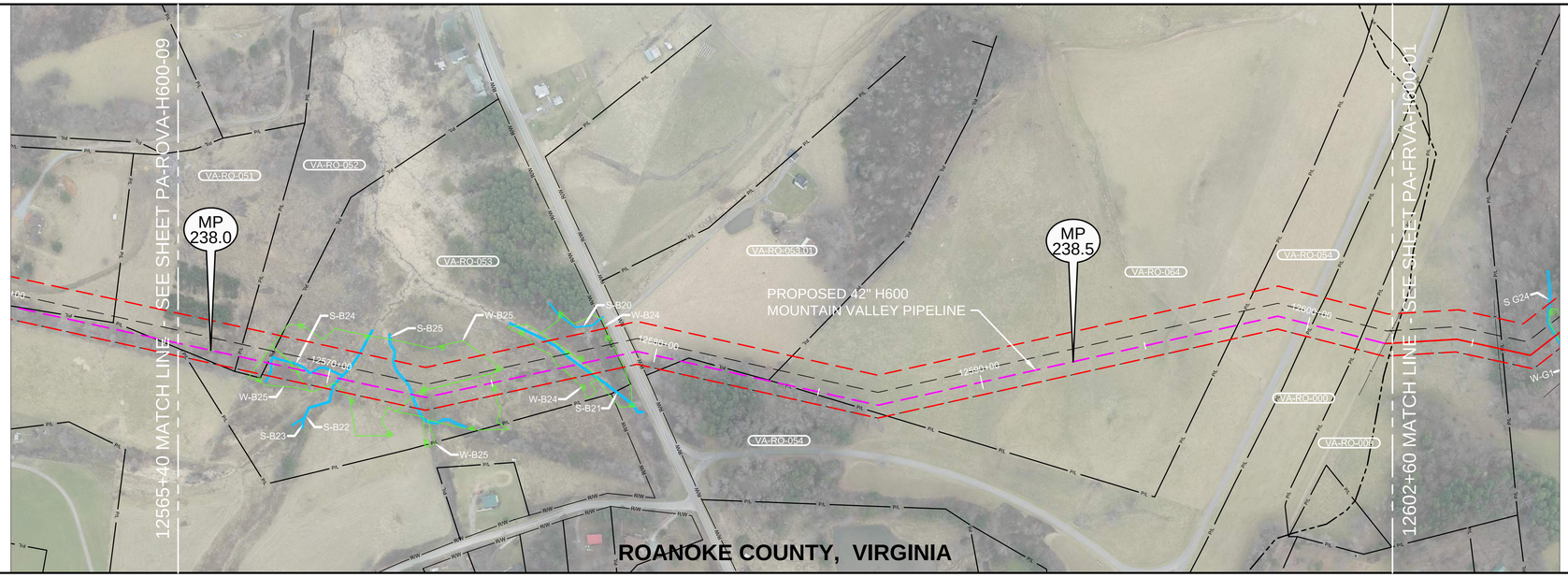
Mountain Valley

PIPELINE ALIGNMENT

MOUNTAIN VALLEY PROJECT - H600 LINE
BENT MOUNTAIN PCT.,ROANOKE CO.,VA.
STA. 12525+40 TO STA. 12565+40

HORZ. SCALE: 1" = 200'	
DRAWN BY: HEI(DRF)	02/11/15
DRAFTING CK:	.
ENGINEERING CK:	.
CONSTRUCTION CK:	.
ENVIRONMENTAL CK:.	.
AFE/P.O.NO.:	
HEI PROJECT NO.: 14-10-052	
DRAWING NO.: PA-ROVA-H600 -09	
SHEET 257 OF 312	REV. 0
DATE OF PLOT: 05/21/15 12:26 PM	

RIGHT-OF-WAY & OWNERSHIP DATA		12565+40				12602+60
DESIGN	PIPE / COATING	12565+40				12602+60
	SLOPE DISTANCE					
	CLASS LOCATION / HCA	2	1	2	1	
ENVIRONMENTAL	CONSTRUCTION EXCLUSION					
	WETLAND / STREAM					
	SEDIMENT BARRIER LEFT					
	SEDIMENT BARRIER RIGHT					



0' 100' 200' 400'

PLAN VIEW LEGEND

- PROPOSED 42"PIPELINE
- NON-SURVEYED C/L
- 500' TICK MARK
- EXISTING PIPELINE
- WORK SPACE LIMITS
- PERMANENT ACCESS RD
- TEMPORARY ACCESS RD
- LAYDOWN/CONTRACTOR YARD
- PL PROPERTY LINE
- RW ROAD RIGHT-OF-WAY
- FENCE LINE
- OVERHEAD POWER
- OVERHEAD TELEPHONE
- C/L STREAM
- EDGE OF WATER
- C/L ROAD
- C/L RAILROAD
- WETLAND
- 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

REFERENCE DRAWINGS

DRAWING NO.	DESCRIPTION

HORIZONTAL STATIONING

12565+40 MATCH LINE
12567+26 PROPERTY LINE
12567+92 BEGIN WETLAND(W-B25 PSS 1 OF 2)
12568+14 PROPERTY LINE
12568+23 BEGIN STREAM(S-B24)
12568+26 END STREAM(S-B24)
12568+91 END WETLAND(W-B25 PSS 1 OF 2)
12568+97 BEGIN WETLAND(W-B25 PEM)
12569+36 BEGIN STREAM(S-B24)
12569+42 END STREAM(S-B24)
12569+46 BEGIN STREAM(S-B24)
12569+52 END STREAM(S-B24)
12570+32 BEGIN STREAM(S-B22)
12570+37 END STREAM(S-B22)
12572+57 BEGIN STREAM(S-B25)
12572+58 END STREAM(S-B25)
12572+62 END WETLAND(W-B25 PEM)
12572+62 BEGIN WETLAND(W-B25 PSS 2 OF 2)
12575+10 END WETLAND(W-B25 PSS 2 OF 2)
12577+12 BEGIN WETLAND(W-B24-PEM)
12577+61 BEGIN STREAM(S-B21)
12577+67 END STREAM(S-B21)
12577+81 END WETLAND(W-B24-PEM)
12578+81 BEGIN WETLAND(W-B24)
12578+86 END WETLAND(W-B24)
12578+84 RIGHT-OF-WAY
12579+40 RIGHT-OF-WAY
12580+78 PROPERTY LINE
12583+75 PROPERTY LINE
12597+83 PROPERTY LINE
12600+12 PROPERTY LINE
12601+63 PROPERTY LINE
12602+38 FENCE - BARBED WIRE
12602+60 MATCH LINE, BEG FRANKLIN END ROANOKE,

WORK SPACE

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

MATCH LINE 12565+40 — 50.0' — 37.5' — 125.0' — 37.5' — 50.0' — 37.5' — 125.0' — 37.5' — MATCH LINE 12602+60

CONSTRUCTION METHOD

CONSTRUCTION METHOD KEY

1 -
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PROFILE

1600 1500 1400 1300 1200 1100 1000

12570+00 12575+00 12580+00 12585+00 12590+00 12595+00 12600+00

REV 3.2.5 ISSUED FOR FERC

AERIAL PHOTOGRAPHY DATE: DECEMBER 2014

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
		MATERIAL
		MATERIAL
		SEDIMENT BARRIER
		CONTROL WATER
		TYPE 1 TEST STATION - PIPELINE
		TYPE 4 TEST STATION - FOREIGN CROSSING

REVISIONS

REV.	BY	DATE	DESCRIPTION

APPROVED FOR CONSTRUCTION

REV.	BY	DATE

APPROVED FOR BIDDING

REV.	BY	DATE

APPROVED FOR FERC

REV.	BY	DATE
0		

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Mountain Valley

PIPELINE ALIGNMENT

MOUNTAIN VALLEY PROJECT - H600 LINE
BENT MOUNTAIN PCT.,ROANOKE CO.,VA.
STA. 12565+40 TO STA. 12602+60

HORZ. SCALE: 1" = 200'	
DRAWN BY: HEI(DRF)	02/11/15
DRAFTING CK:	.
ENGINEERING CK:	.
CONSTRUCTION CK:	.
ENVIRONMENTAL CK:	.
AFE/P.O.NO.:	
HEI PROJECT NO.: 14-10-052	
DRAWING NO.: PA-ROVA-H600 -10	
SHEET 258 OF 312	REV. 0
DATE OF PLOT: 05/21/15 12:26 PM	