RIGHT-OF-WAY & OWNERSHIP DATA

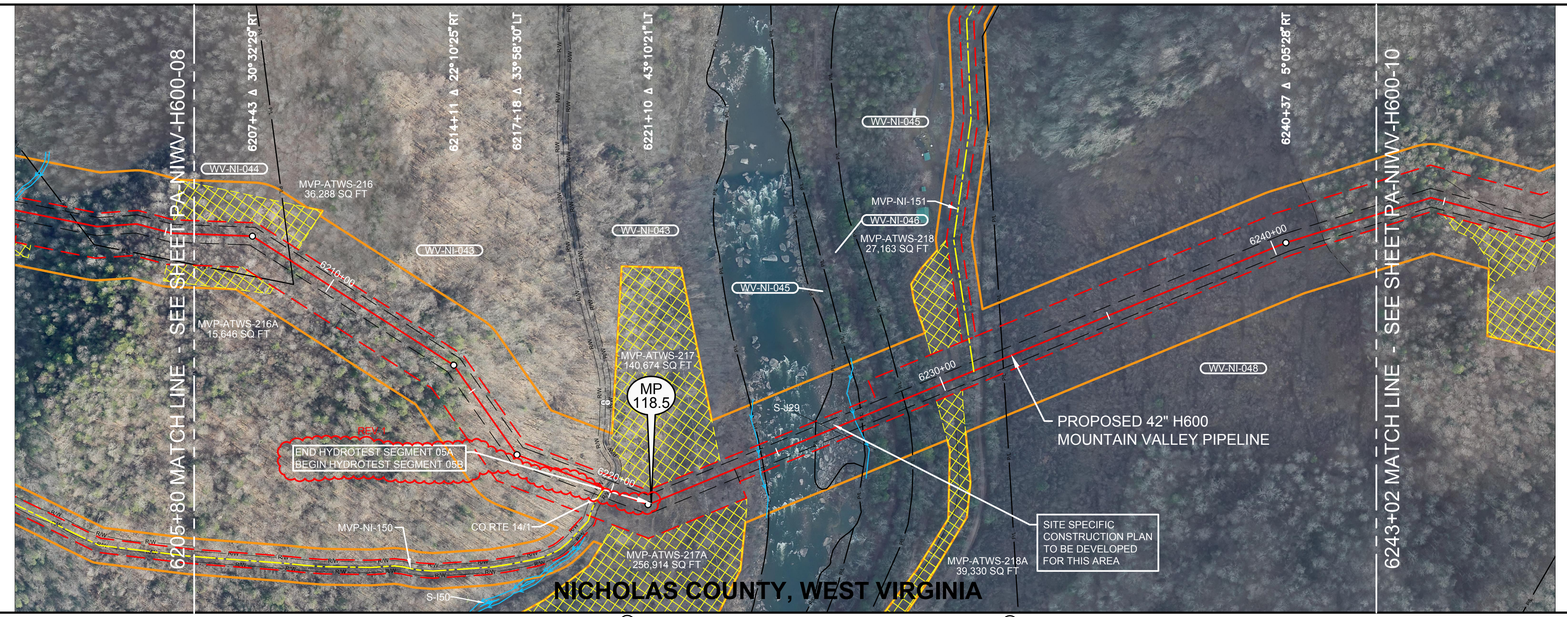
WV-NI-044 / WV-NI-043 — 6205+80 — 15 LF, 15 SLOPE
WV-NI-044 / WV-NI-043 — 6205+95 — 226 LF, 226 SLOPE
WV-NI-044 / WV-NI-043 — 6208+21 — 92, 94 SLOPE
WV-NI-043 — 6209+13 — 1052 LF, 1153 SLOPE
6219+65 COUNTY ROUTE 14/1 (LILLIE RUN)
WV-NI-043 — 6219+96 — 458 LF, 485 SLOPE
GAULEY RIVER — 6224+54 — 146 LF, 146 SLOPE
GAULEY RIVER / WV-NI-045 — 6226+00 — 32 LF, 33 SLOPE
WV-NI-045 — 6226+32 — 123 LF, 125 SLOPE
WV-NI-045 / WV-NI-046 — 6227+55 — 128 LF, 141 SLOPE
WV-NI-046 / WV-NI-048 — 6228+83 — 286 LF, 305 SLOPE
WV-NI-048 / WV-NI-045 — 6231+69 — 43 LF, 45 SLOPE
WV-NI-045 / WV-NI-048 — 6232+12 — 1090 LF, 1204 SLOPE
6243+02

DESIGN

PIPE / COATING	6205+80	1
	6219+60	4
	6220+00	1
	6243+02	
SLOPE DISTANCE		1482'
		40'
		2482'
CLASS LOCATION / HCA		1

ENVIRONMENTAL

CONSTRUCTION EXCLUSION		
WETLAND / STREAM	S-J29	290 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

REFERENCE DRAWINGS

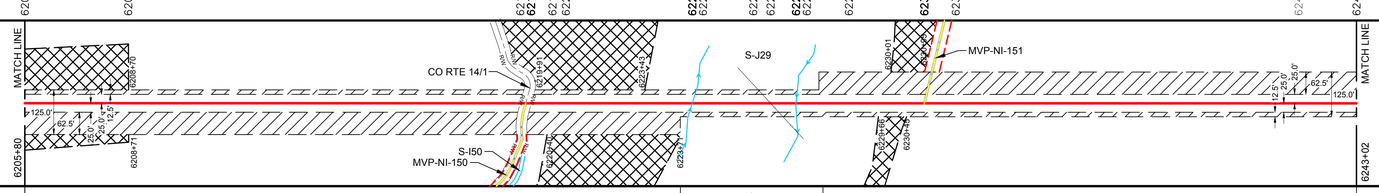
DRAWING NO.	DESCRIPTION

HORIZONTAL STATIONING

6205+80 MATCH LINE
6208+69 PROPERTY LINE
6219+65 RIGHT-OF-WAY
6219+80 ℄ CO RTE 14/1 – LILLIE RUN CUTOFF
6219+96 ACCESS RD / TEMPORARY(MVP-NI-150)
6220+92 TOP OF TERRACE
6224+46 STREAM BANK(S-J29)
6224+54 PROPERTY LINE
6226+16 PROPERTY LINE
6226+64 8"(HOPE GAS, INC) PIPELINE
6227+36 STREAM BANK(S-J29)
6227+55 PROPERTY LINE
6228+83 PROPERTY LINE
6230+94 ACCESS RD – TEMPORARY(MVP-NI-151)
6231+82 PROPERTY LINE
6241+40 ℄ TRAIL(DIRT)
6243+02 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 CONFIGURATION
2 - TYPICAL R/W CONFIGURATION
3 - TYPICAL "SKINNEY" FOR WATER BODY
4 -
5 -
6 -
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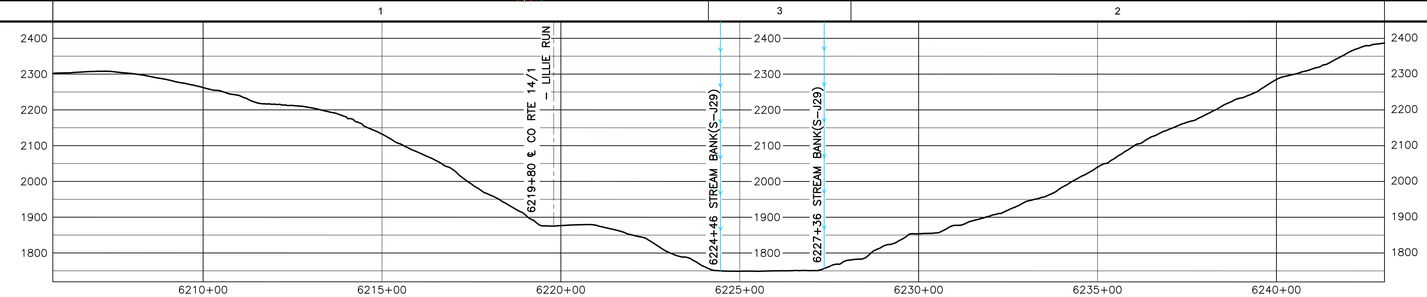
16 -

1 | 3 | 2

PROFILE



REV 4.0.0 - ISSUED TO FERC

AERIAL PHOTOGRAPHY DATE: APRIL 2015 & JANUARY 2016

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
	3984	42"O.D. X 0.617"W.T. X 70 FUSION BONDED EPOXY
	40	42"O.D. X 0.740"W.T. X 70 FBE & 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
1	HEI	04-14-16	FERC DATA REQUEST No.2

APPROVED FOR CONSTRUCTION			APPROVED FOR BIDDING			APPROVED FOR FERC		
REV.	BY	DATE	REV.	BY	DATE	REV.	BY	DATE
-	-	-	-	-	-	0	HRR	10-15-15

HOLLAND ENGINEERING
220 Hoover Boulevard, Suite 2 | 26055 Evergreen Rd. Suite 430
Holly Springs, NC 27540 | Southfield, Michigan 48037
t / f: 919.552.9700 | t / f: 248.827.7549
www.hollandengineering.com

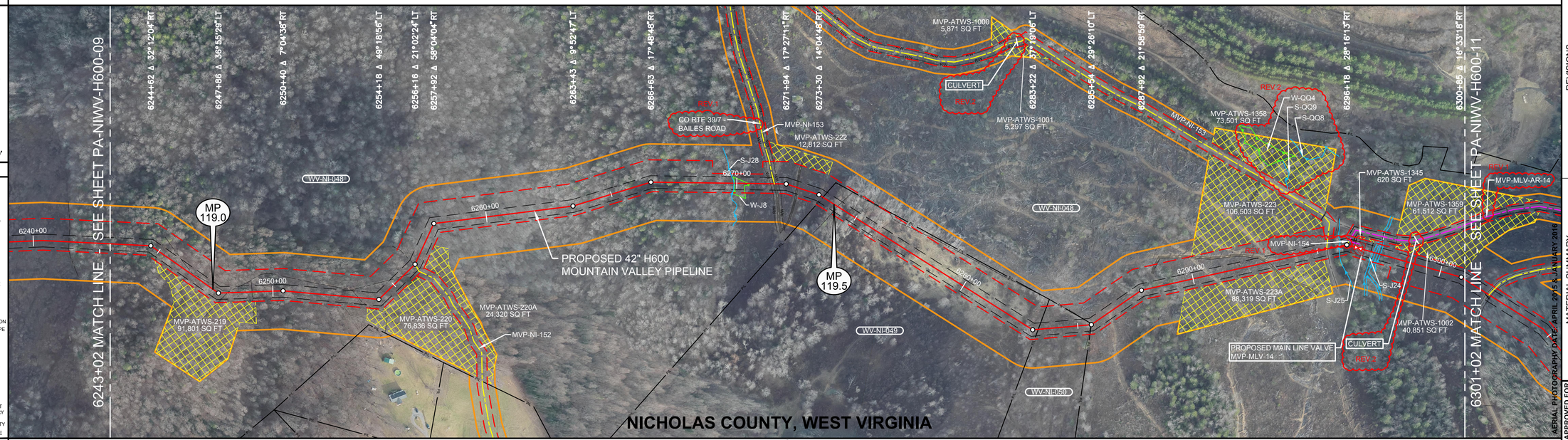
Mountain Valley PIPELINE

PIPELINE ALIGNMENT

MOUNTAIN VALLEY PROJECT - H600 LINE
BEAVER & KENTUCKY DIST., NICHOLAS CO.,W.V.
STA. 6205+80 TO STA. 6243+02

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-NIWV-H600 -09
SHEET 131 OF 326	REV. 0
DATE OF PLOT: 04/19/16 11:45 AM	

RIGHT-OF-WAY & OWNERSHIP DATA		WV-NI-048 2831 LF 2901 SLOPE; 6271+33 WV-NI-048/WV-NI-397 30 LF 30 SLOPE; WV-NI-048 185 LF 190 SLOPE; WV-NI-048/WV-NI-049 202 LF 207 SLOPE; WV-NI-049 776 LF 781 SLOPE; WV-NI-049/WV-NI-050 60 LF 60 SLOPE; WV-NI-050 49 LF 50 SLOPE; WV-NI-050/WV-NI-048 119 LF 121 SLOPE; WV-NI-048 1548 LF 1610 SLOPE
DESIGN — PIPE / COATING		6243+02: 1; 6271+28: 4; 6271+68: 1; 6301+02
DESIGN — SLOPE DISTANCE		2895'; 40'; 3015'
DESIGN — CLASS LOCATION / HCA		1
ENVIRONMENTAL — CONSTRUCTION EXCLUSION		
ENVIRONMENTAL — WETLAND / STREAM		S-J28 5 LF; W-J8 56 LF; S-J25 5 LF; S-J24 10 LF; S-J24 10 LF
ENVIRONMENTAL — .		
ENVIRONMENTAL — .		



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 / 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
- LIMITS OF DISTURBANCE

REFERENCE DRAWINGS

DRAWING NO.	DESCRIPTION

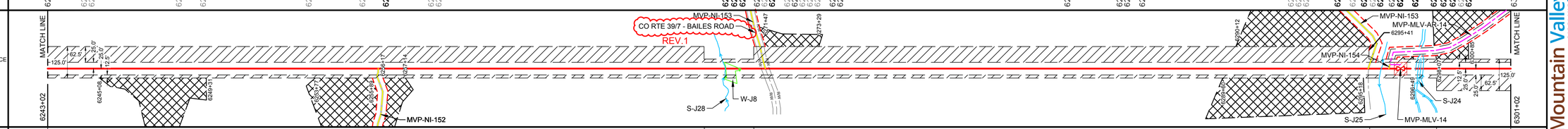
HORIZONTAL STATIONING

6243+02 MATCH LINE; 6244+46 TOE OF CANYON; 6244+51 TOP OF CANYON; 6248+22 ℄ TRAIL(DIRT); 6249+18 ℄ TRAIL(DIRT); 6253+37 ℄ TRAIL(DIRT); 6255+50 ℄ TRAIL(DIRT); 6256+13 ACCESS RD – TEMPORARY(MVP–NI–152); 6258+11 TOP OF CANYON; 6258+21 TOE OF CANYON; 6269+89 ℄ STREAM(S–J28); 6269+91 BEGIN WETLAND(W–J8); 6270+47 END WETLAND(W–J8); 6271+33 RIGHT–OF–WAY; 6271+44 EDGE OF DIRT; 6271+48 ℄ CO RTE 39/7 – BAILES ROAD, ACCESS RD – TEMPORARY(MVP–NI–153); 6271+62 EDGE OF DIRT; 6271+96 RIGHT–OF–WAY; 6272+39 ℄ FIELD ROAD(DIRT); 6272+42 EDGE OF DIRT; 6273+48 PROPERTY LINE; 6274+16 FENCE – BARBED WIRE; 6283+44 PROPERTY LINE; 6285+51 FENCE – BARBED WIRE; 6285+53 PROPERTY LINE; 6285+56 PROPERTY CORNER 31'LT; 6292+95 EDGE OF DIRT; 6293+11 ℄ FIELD ROAD(DIRT); 6293+07 EDGE OF DIRT; 6290+37 ACCESS RD – TEMPORARY (MVP–NI–153); 6295+39 ℄ FIELD ROAD(DIRT); 6295+89 ℄ STREAM(S–J25); 6296+18 ACCESS RD – TEMPORARY (MVP–NI–154); 6296+18 ROCK 66'LT; 6296+65 PROPOSED MAIN LINE VALVE (MVP–MLV–14); 6296+65 ACCESS ROAD – PERMANENT (MVP–MLV–AR–14) 16'LT; 6297+25 STREAM BANK(S–J24); 6297+35 STREAM BANK(S–J24); 6297+45 STREAM BANK(S–J24); 6297+50 CULVERT 56'LT; 6297+55 STREAM BANK(S–J24); 6301+02 MATCH LINE

REV 4.0.0 - ISSUED TO FERC

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 CONFIGURATION
2 - TYPICAL R/W CONFIGURATION
3 - TYPICAL "SKINNEY" FOR WATER BODY
4 -
5 -
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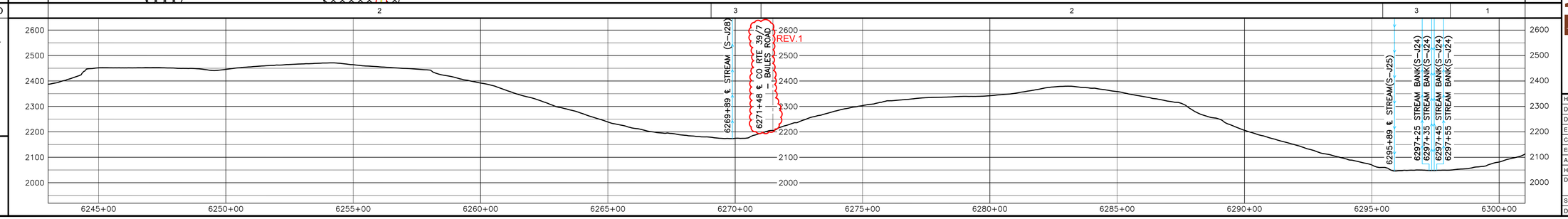
PROFILE



REVISIONS

REV.	BY	DATE	DESCRIPTION
4	HEI	10-15-15	REV 4.0.0 ISSUED TO FERC
1	HEI	01-05-16	FERC DATA REQUEST 21 - MVP-MLV-AR-14 & ADDED ROAD NAME
2	HEI	04-12-16	FERC DATA REQUEST No. 2

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
1	9910	42"O.D. X 0.617"W.T. X70 FBE BONDED EPOXY
2	40	42"O.D. X 0.740"W.T. X70 FBE & ARO
3		TYPE 1 TEST STATION - PIPELINE
4		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 | 26055 Evergreen Rd, Suite 430
Holly, Michigan 48442-9279 | Southfield, Michigan 48075
t / f: 248.634.9279 | t: 248.827.7549
www.hollandengineering.com

Mountain Valley PIPELINE

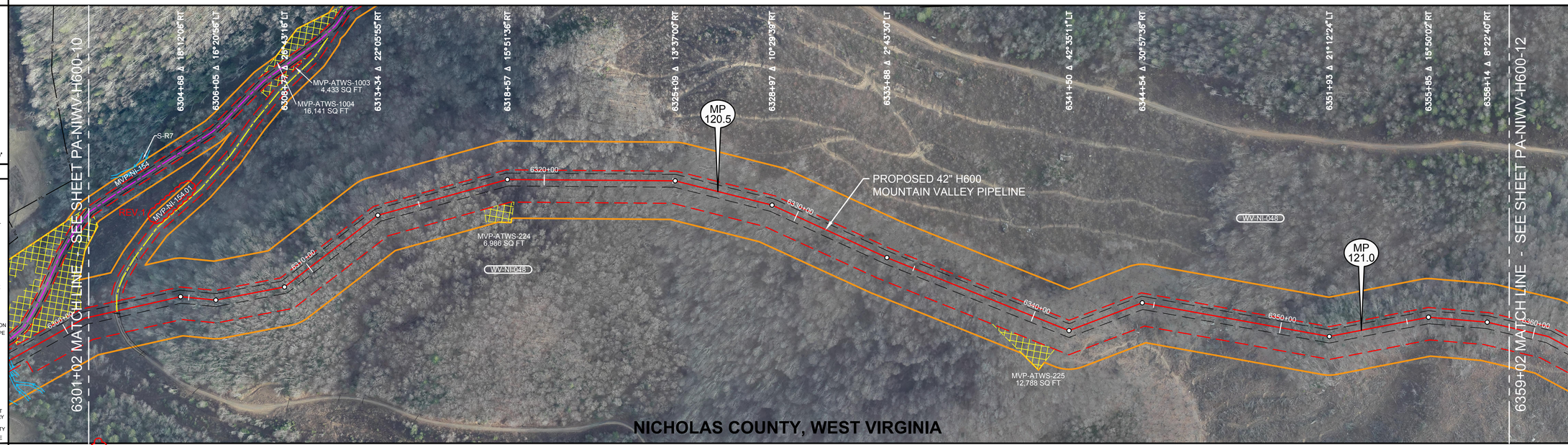
PIPELINE ALIGNMENT

MOUNTAIN VALLEY PROJECT - H600 LINE
BEAVER & KENTUCKY DIST., NICHOLAS CO.,W.V.
STA. 6243+02 TO STA. 6301+02

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-NIWV-H600 -10
SHEET 132 OF 326	REV. 2
DATE OF PLOT: 04/19/16 11:45 AM	

RIGHT-OF-WAY & OWNERSHIP DATA		WV-NI-048
DESIGN	PIPE / COATING	1
	SLOPE DISTANCE	5884'
	CLASS LOCATION / HCA	1
ENVIRONMENTAL	CONSTRUCTION EXCLUSION	
	WETLAND / STREAM	
	.	
	.	

6301+02 — 5800 LF, 5884 SLOPE — 6359+02



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
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- OVERHEAD POWER
- OVERHEAD TELEPHONE
- C/L ROAD
- C/L RAILROAD
- DELINEATED STREAM
- DELINEATED WETLAND
- BARRACADE FENCE
- PI SYMBOL
- PROPOSED TEST STATION
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- LINE MARKER - VENT PIPE
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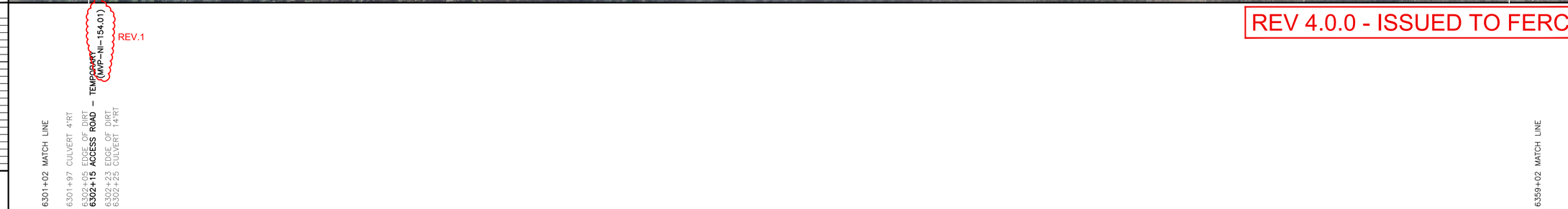
- ELEC/GAS/WTR METER
- PEDESTAL - UTILITY
- MH - SANITARY/WATER
- CATCH BASIN - CULVERT
- ADDITIONAL TEMPORARY WORK SPACE(ATWS)
- ABOVE GROUND FACILITY
- LIMITS OF DISTURBANCE

REFERENCE DRAWINGS

DRAWING NO.	DESCRIPTION

HORIZONTAL STATIONING



WORK SPACE

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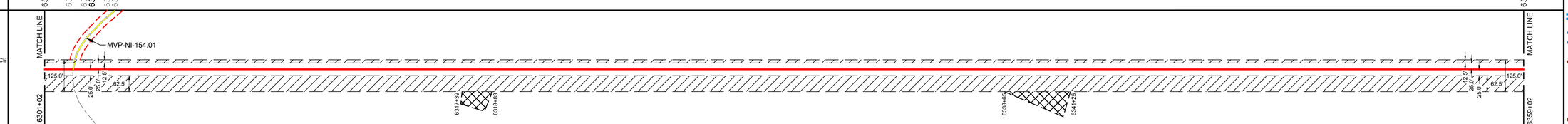
- TEMPORARY WORK SPACE(TWS)
- ADD. TEMPORARY WORK SPACE(ATWS)



CONSTRUCTION METHOD

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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7 -
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16 -

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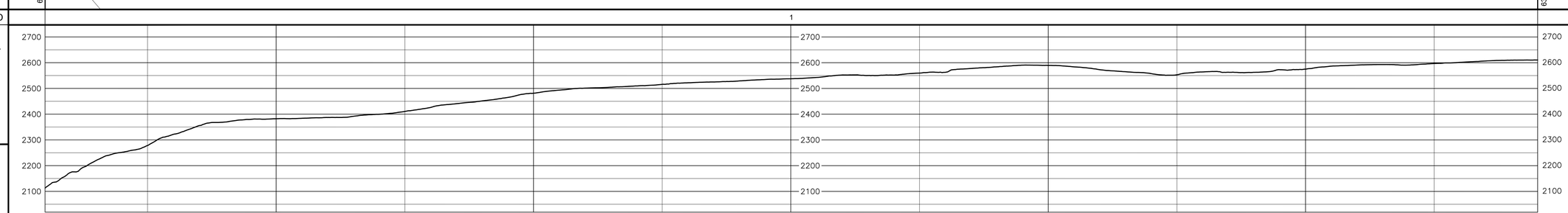
PROFILE



REV 4.0.0 - ISSUED TO FERC

HOLLAND ENGINEERING
220 Hoover Boulevard, Suite 2 | 26055 Evergreen Rd, Suite 430
Holly, Michigan 48442-9292 | Southfield, Michigan 48075
t / f: 248.634.9488 / 248.634.9489 | t / f: 248.557.7000 / 248.557.7549
www.hollandengineering.com

REVISIONS

REV.	BY	DATE	DESCRIPTION
4	BT	10-15-15	REV 4.0.0 ISSUED TO FERC
1	HEI	01-05-16	FERC DATA REQUEST 21 - MVP-NI-154.2

AERIAL PHOTOGRAPHY DATE: APRIL 2015 & JANUARY 2016

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
1	5884	42"O.D. X 0.617"W.T. X-70 FBE BONDED EPOXY
2		TYPE 1 TEST STATION - PIPELINE
3		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	RRR	10-15-15

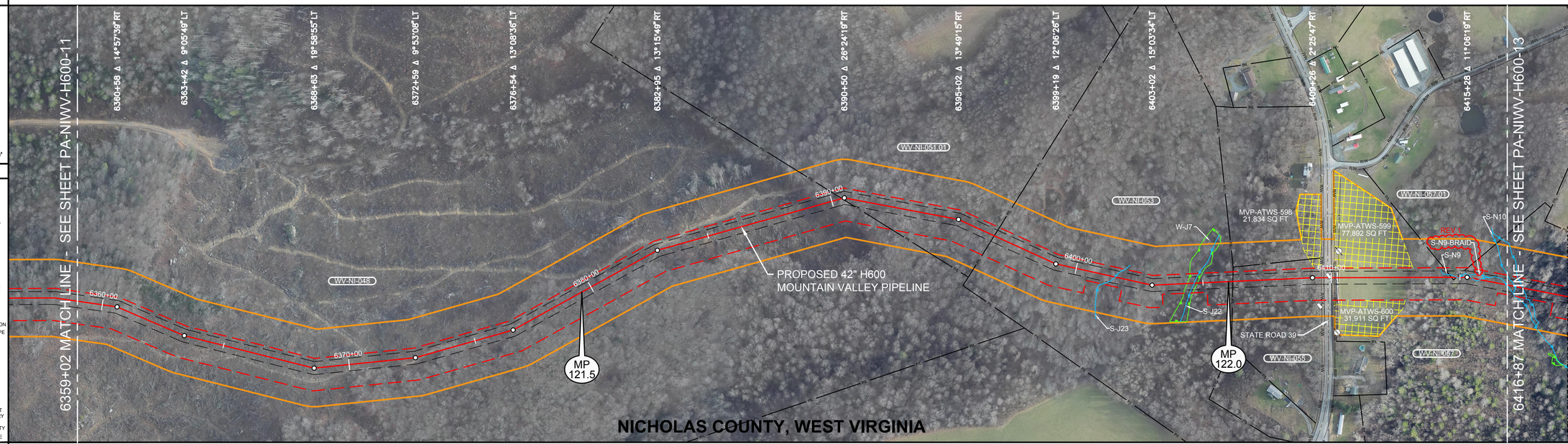
Mountain Valley PIPELINE

PIPELINE ALIGNMENT

MOUNTAIN VALLEY PROJECT - H600 LINE
KENTUCKY DIST., NICHOLAS CO.,W.V.
STA. 6301+02 TO STA. 6359+02

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-NIWV-H600 -11	
SHEET 133 OF 326	REV. 0
DATE OF PLOT: 04/19/16 11:46 AM	

RIGHT-OF-WAY & OWNERSHIP DATA																							
	6359+02	WV-NI-048 3104 LF 3108 SLOPE	6390+06	WV-NI-051.01 / WV-NI-048 250 LF 250 SLOPE	6392+56	WV-NI-051.01 399 LF 402 SLOPE	6396+55	WV-NI-053 962 LF 969 SLOPE	6406+17	WV-NI-055 345 LF 347 SLOPE	6409+62	STATE ROAD 39	6410+12	WV-NI-057 425 LF 429 SLOPE	6414+37	WV-NI-057.01 / WV-NI-057 95 LF 97 SLOPE	6415+32	WV-NI-057 155 LF 158 SLOPE	6416+87				
DESIGN — PIPE / COATING	6359+02	1							6402+46	2	6409+47	5	6410+27	2					6416+87				
DESIGN — SLOPE DISTANCE		4353'								707'		80'		670'									
DESIGN — CLASS LOCATION / HCA		1								2													
									6402+47	HCA-6													
ENVIRONMENTAL — CONSTRUCTION EXCLUSION																							
ENVIRONMENTAL — WETLAND / STREAM										S-J23 1 LF		W-J7 48 LF	S-J22 3 LF				S-N9 4 LF	S-N9 4 LF	S-N9 4 LF	S-N9 4 LF	S-N9 4 LF		
ENVIRONMENTAL — .																							
ENVIRONMENTAL — .																							



AERIAL PHOTOGRAPHY DATE: APRIL 2016 & JANUARY 2016

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
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- DELINEATED STREAM
- DELINEATED WETLAND
- BARRACADE FENCE
- PI SYMBOL
- PROPOSED TEST STATION
- MAILBOX
- LINE MARKER - VENT PIPE
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- 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

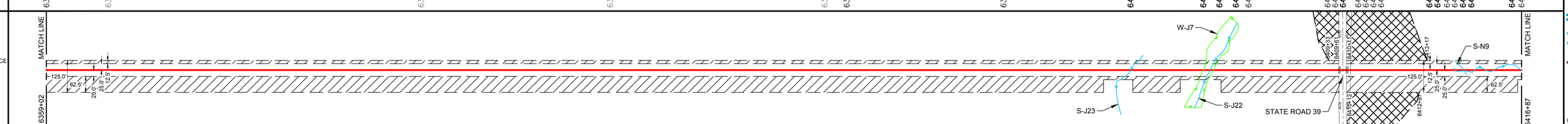
DRAWING NO.	DESCRIPTION

HORIZONTAL STATIONING

6359+02 MATCH LINE; 6361+45 TREE LINE; 6373+72 TREE LINE; 6381+13 TREE LINE; 6389+54 TREE LINE; 6390+41 PROPERTY LINE; 6396+55 PROPERTY LINE; 6401+54 ℄ STREAM(S-J23); 6404+39 BEGIN WETLAND(W-J7); 6404+66 ℄ STREAM(S-J22); 6404+79 END WETLAND(W-J7); 6406+17 PROPERTY LINE; 6409+62 RIGHT-OF-WAY; 6409+73 EDGE OF ASPHALT; 6409+87 ℄ STATE ROAD 39; 6410+00 EDGE OF ASPHALT; 6410+03 SIGN 19' LT; 6410+12 RIGHT-OF-WAY; 6410+27 OHP LINE; 6414+61 ℄ STREAM(S-N9); 6414+97 ℄ STREAM(S-N9); 6414+67 PROPERTY LINE; 6414+87 PROPERTY LINE; 6415+48 ℄ STREAM(S-N9); 6415+85 ℄ STREAM(S-N9); 6416+85 ℄ STREAM(S-N9); 6416+87 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 | 3 | 1 | 3 | 1

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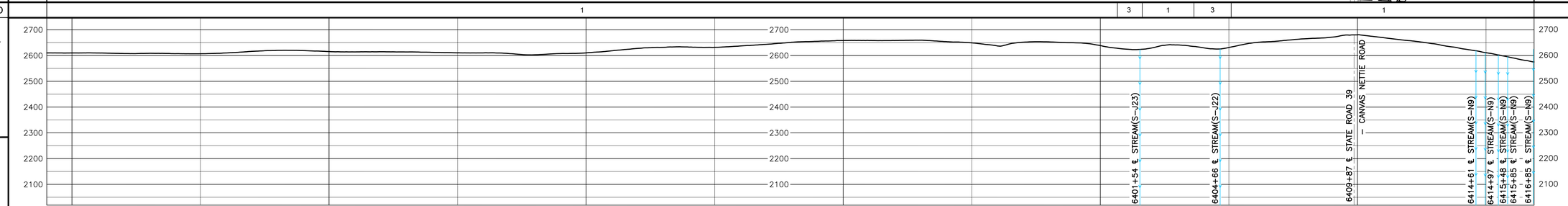
PROFILE



REV 4.0.0 - ISSUED TO FERC

HOLLAND ENGINEERING
220 Hoover Boulevard, Suite 2 | 26055 Evergreen Rd, Suite 430
Holly, Michigan 48442-9292 | Southfield, Michigan 48075
t / f: 248.437.3292 | t / f: 248.437.7549
www.hollandengineering.com

REVISIONS

REV.	BY	DATE	DESCRIPTION
0	HEI	10-15-15	REV 4.0.0 ISSUED TO FERC
1	HEI	04-14-16	FERC DATA REQUEST No.2

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
2	4353	42"O.D. X 0.617"W.T. X X70 FUSION BONDED EPOXY
5	1377	42"O.D. X 0.740"W.T. X X70 FUSION BONDED EPOXY
	80	42"O.D. X 0.888"W.T. X X70 FBE & ARO
	1	TYPE 4 TEST STATION - WITH WIRE
		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
KENTUCKY DIST., NICHOLAS CO.,W.V.
STA. 6359+02 TO STA. 6416+87

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-NIWV-H600 -12
SHEET 134 OF 326	REV. 1
DATE OF PLOT: 04/19/16 11:46 AM	

RIGHT-OF-WAY & OWNERSHIP DATA	
WV-NI-057	448 LF 450 SLOPE
WV-NI-057 / WV-NI-058	58 LF 58 SLOPE
WV-NI-058	379 LF 383 SLOPE
WV-NI-058 / WV-NI-058.01	288 LF 289 SLOPE
WV-NI-058.01 / WV-NI-058 / WV-NI-059	72 LF 73 SLOPE
WV-NI-058.01 / WV-NI-059	19 LF 19 SLOPE
WV-NI-059	346 LF 346 SLOPE
WV-NI-059 / WV-NI-058	291 292 SLOPE
WV-NI-058	533 LF 548 SLOPE
WV-NI-058 / WV-NI-058.01 / WV-NI-058.02	30 LF 30 LF - RR SLOPE
WV-NI-058	37 LF 43 SLOPE
WV-NI-060 / WV-NI-058	38 LF 41 SLOPE
WV-NI-060	1011 LF 1034 SLOPE
WV-NI-061	367 LF 400 SLOPE
WV-NI-062 / WV-NI-061	112 LF 124 SLOPE
WV-NI-061	250 LF 281 SLOPE
WV-NI-063 / WV-NI-061	86 LF 86 SLOPE
WV-NI-063	1426 LF 1529 SLOPE

DESIGN	
PIPE / COATING	6416+87: 2; 6439+60: 1; 6441+16: 4; 6441+56: 1; 6474+78
SLOPE DISTANCE	2196'; 258'; 40'; 3532'
CLASS LOCATION / HCA	HCA-6 6426+55: 2; 1

ENVIRONMENTAL	
CONSTRUCTION EXCLUSION	
WETLAND / STREAM	S-N10 4 LF; S-N10-BRAID 3 LF; S-EE1 4 LF; S-N13 2 LF; S-L41 20 LF
.	
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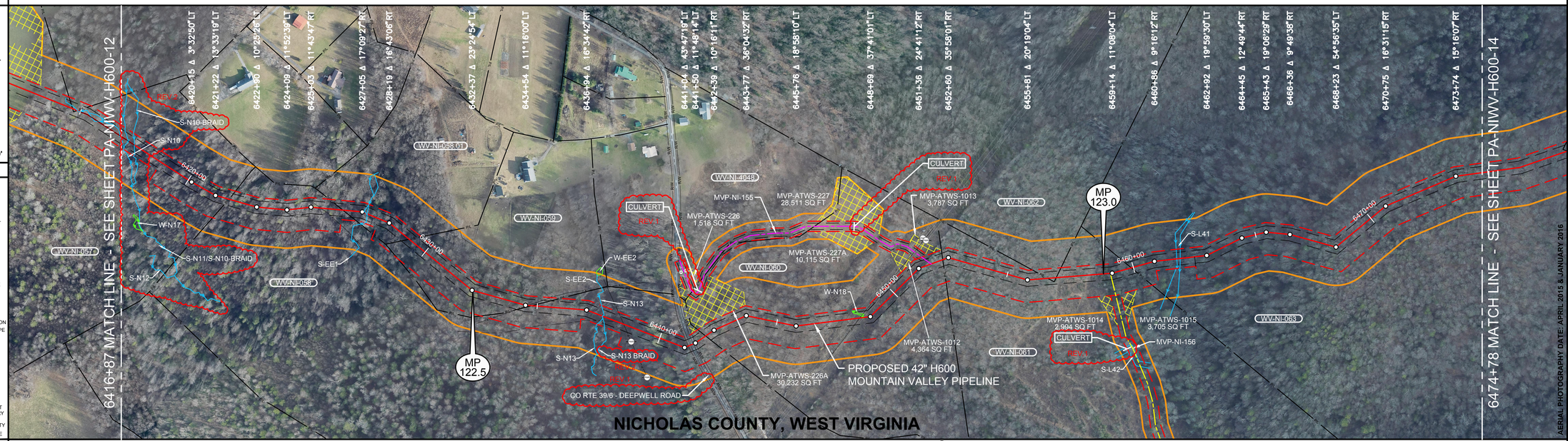


AERIAL PHOTOGRAPHY DATE: APRIL 2015 & JANUARY 2016

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

REFERENCE DRAWINGS

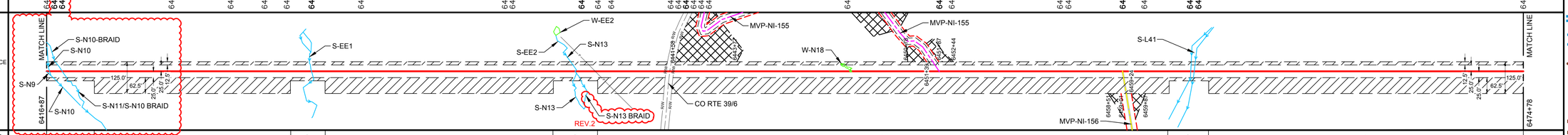
DRAWING NO.	DESCRIPTION

HORIZONTAL STATIONING

6416+87 MATCH LINE; 6417+17 ℄ STREAM(S-N10); 6417+48 ℄ STREAM(S-N10-BRAID) REV.2; 6421+77 PROPERTY LINE; 6424+09 ROCK OUTCROP 13'RT; 6425+42 FENCE - BARBED WIRE; 6426+29 PROPERTY LINE; 6427+22 ℄ STREAM(S-EE1); 6429+20 PROPERTY LINE; 6434+64 FENCE - BARBED WIRE; 6434+78 PROPERTY LINE; 6437+60 ℄ STREAM(S-N13); 6438+49 OHP LINE; 6439+01 POWER POLE 53'RT; 6441+21 RIGHT-OF-WAY; 6441+31 EDGE OF ASPHALT; 6441+36 ℄ CO RTE 39/6 - DEEPWELL ROAD; 6441+42 EDGE OF ASPHALT; 6441+51 RIGHT-OF-WAY; 6441+99 PROPERTY LINE; 6448+28 OHP LINE; 6451+88 ACCESS RD - PERMANENT(MVP-NI-155); 6452+37 PROPERTY LINE; 6456+61 PROPERTY LINE; 6456+94 PROPERTY LINE; 6459+07 ACCESS RD - TEMPORARY(MVP-NI-156); 6459+92 PROPERTY LINE; 6461+74 STREAM BANK(S-L41); 6461+94 STREAM BANK(S-L41); 6474+78 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 CONFIGURATION
2 - TYPICAL R/W CONFIGURATION
3 - TYPICAL "SKINNEY" FOR WATER BODY
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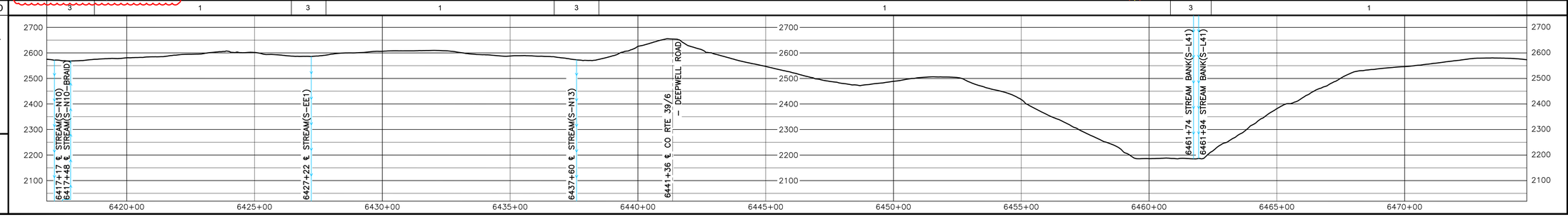
PROFILE



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HOLLAND ENGINEERING
220 Hoover Boulevard, Suite 2
Holly, Michigan 48442-1029
t: 248.634.3939 f: 248.634.3949
26955 Evergreen Rd, Suite 430
Southfield, Michigan 48076
t: 248.827.7000 f: 248.827.7049
www.hollandengineering.com

REVISIONS

REV.	BY	DATE	DESCRIPTION
0	HEI	10-15-15	REV 4.0.0 ISSUED TO FERC
1	HEI	01-06-16	FERC DATA REQUEST 21 - ADDED ROAD NAME
2	HEI	04-12-16	FERC DATA REQUEST No.2

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
1	3780	42"O.D. X 0.617"W.T. X 70 FUSION BONDED EPOXY
2	2196	42"O.D. X 0.740"W.T. X 70 FUSION BONDED EPOXY
4	40	42"O.D. X 0.740"W.T. X 70, FBE & ARO
	2	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
KENTUCKY DIST., NICHOLAS CO.,W.V.
STA. 6416+87 TO STA. 6474+78

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-NIWV-H600 -13
SHEET 135 OF 326	REV. 2
DATE OF PLOT: 04/19/16 11:47 AM	