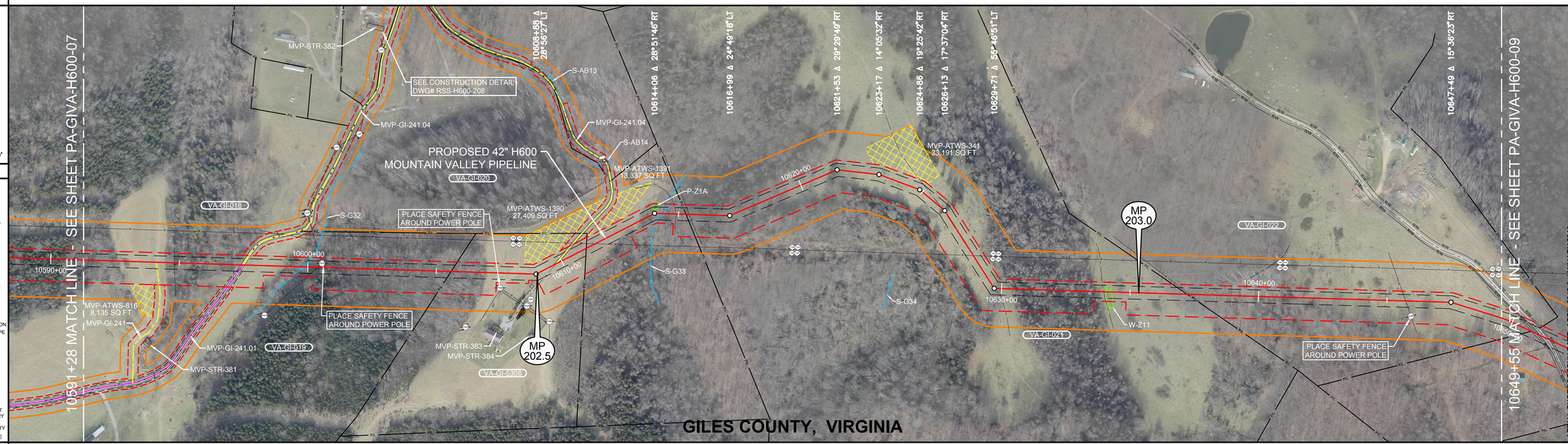
RIGHT-OF-WAY & OWNERSHIP DATA		
	VA-GI-018	562 LF 566 SLOPE
	VA-GI-018 / VA-GI-019	80 LF 81 SLOPE
	VA-GI-019	735 LF 772 SLOPE
	VA-GI-019 / VA-GI-5308	76 LF 83 SLOPE
	VA-GI-5308	476 LF 488 SLOPE
	VA-GI-5308 / VA-GI-020	73 LF 74 SLOPE
	VA-GI-020	382 LF 392 SLOPE
	VA-GI-021 / VA-GI-020	56 LF 59 SLOPE
	VA-GI-021	2096 LF 2137 SLOPE
	VA-GI-022 / VA-GI-021	194 LF 199 SLOPE
	VA-GI-022	1097 LF 1102 SLOPE

	10591+28											10649+55
DESIGN: PIPE / COATING	10591+28	1	10599+62	4	10600+02	1	10614+20	4	10614+60	1	10638+71	2	10649+55
DESIGN: SLOPE DISTANCE		849'		40'		1465'		40'		2480'		1089'	
DESIGN: CLASS LOCATION / HCA		1										2	

ENVIRONMENTAL												
CONSTRUCTION EXCLUSION												
WETLAND / STREAM			S-G32 6 LF				P-Z1A 33 LF	S-G33 8 LF			W-Z11 23 LF	
.												
.												



AERIAL PHOTOGRAPHY DATE: APRIL 2015 & JANUARY 2016

OCTOBER 2016 PROPOSED ROUTE - ISSUED TO FERC

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

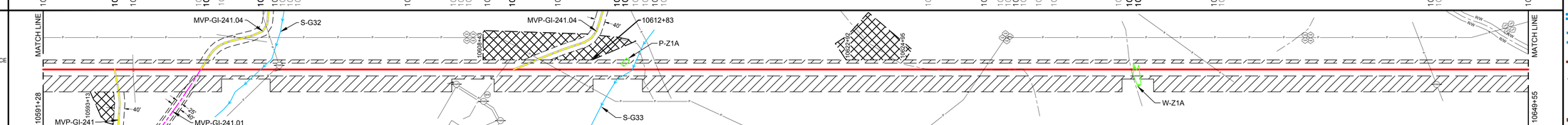
REFERENCE DRAWINGS

DRAWING NO.	DESCRIPTION
MVP-AR-H600-11	ACCESS ROADS, ANCILLARY SITES, MAINLINE VALVES & LAUNCHER/RECEIVER SITES
MVP-QDAR-H600-82	ACCESS ROAD DETAIL MAP
RSS-H600-208	RESIDENTIAL SITE SPECIFIC

HORIZONTAL STATIONING

10591+28 MATCH LINE
10594+09 ACCESS RD – TEMPORARY(MVP–GI–241)
10594+82 FENCE – BARBED WIRE
10597+38 EDGE OF GRAVEL
10597+44 ACCESS RD – PERM(MVP–GI–241.01),
10597+51 EDGE OF GRAVEL
10599+82 ℄ STREAM(S–G32)
10600+37 OHP LINE
10600+45 POWER POLE 16'LT
10600+59 GUY ANCHOR 26'LT
10600+67 GUY ANCHOR 26'LT
10605+58 PROPERTY LINE
10607+38 GUY ANCHOR 49'RT
10607+50 POWER POLE 58'RT
10607+56 GUY ANCHOR 49'RT
10608+71 WELL – WATER 99'RT
10609+76 ACCESS RD – TEMPORARY (MVP–GI–241.04)
10611+47 OHP LINE
10614+06 POND(P–Z1A)12'LT
10614+40 ℄ STREAM(S–G33)
10614+64 BRIDGE – PEDESTRIAN 64'LT
10614+91 ℄ TRAIL(DIRT)
10615+29 PROPERTY LINE
10615+41 FENCE – BARBED WIRE
10626+01 ℄ FIELD ROAD(DIRT)
10628+20 OHP LINE
10628+55 TOWER LEG 69'LT
10628+67 TOWER LEG 86'LT
10628+72 TOWER LEG 57'LT
10628+85 TOWER LEG 74'LT
10629+46 ℄ FIELD ROAD(DIRT)
10629+74 ℄ FIELD ROAD(DIRT)
10633+98 ℄ FIELD ROAD(DIRT)
10634+05 BEGIN WETLAND(W–Z11)
10634+28 END WETLAND(W–Z11)
10637+22 PROPERTY LINE
10637+31 FENCE – HOG WIRE
10645+72 OHP LINE
10645+95 POWER POLE 59'RT
10649+55 MATCH LINE

WORK SPACE



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

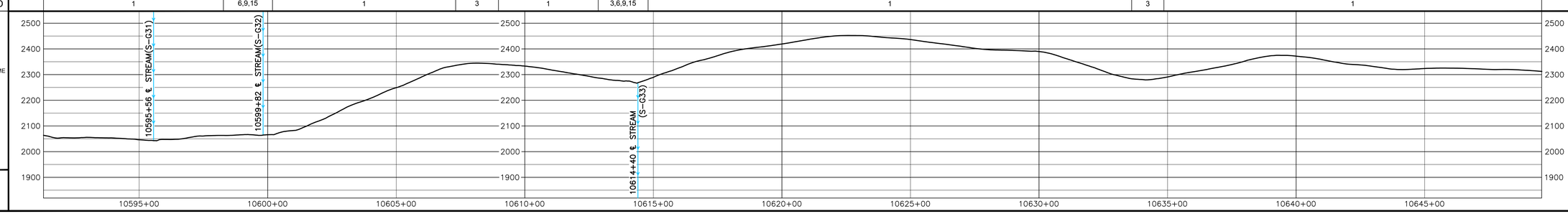
CONSTRUCTION METHOD

1	6,9,15	1	3	1	3,6,9,15	1	3	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
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 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	07-01-16	REV. 4.1 ISSUED TO FERC
4	HEI	10-14-16	OCTOBER 2016 PROPOSED ROUTE - ISSUED TO FERC

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
1	4784	42"O.D. X 0.617"W.T. X 70, FUSION BONDED EPOXY
2	1089	42"O.D. X 0.740"W.T. X 70, FUSION BONDED EPOXY
4	80	42"O.D. X 0.740"W.T. X 70, FBE & ARO
	1	TYPE 1 TEST STATION - PIPELINE

APPROVED FOR CONSTRUCTION		
REV.	BY	DATE
-		

APPROVED FOR BIDDING		
REV.	BY	DATE
-		

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

Mountain Valley PIPELINE

PIPELINE ALIGNMENT

MOUNTAIN VALLEY PROJECT - H600 LINE
PEMBROKE PRECINCT, GILES CO., VA.
STA. 10591+28 TO STA. 10649+55

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-GIVA-H600 -08	
SHEET 224 OF 329	REV. 4
DATE OF PLOT: 10/10/16 6:15 PM	

RIGHT-OF-WAY & OWNERSHIP DATA

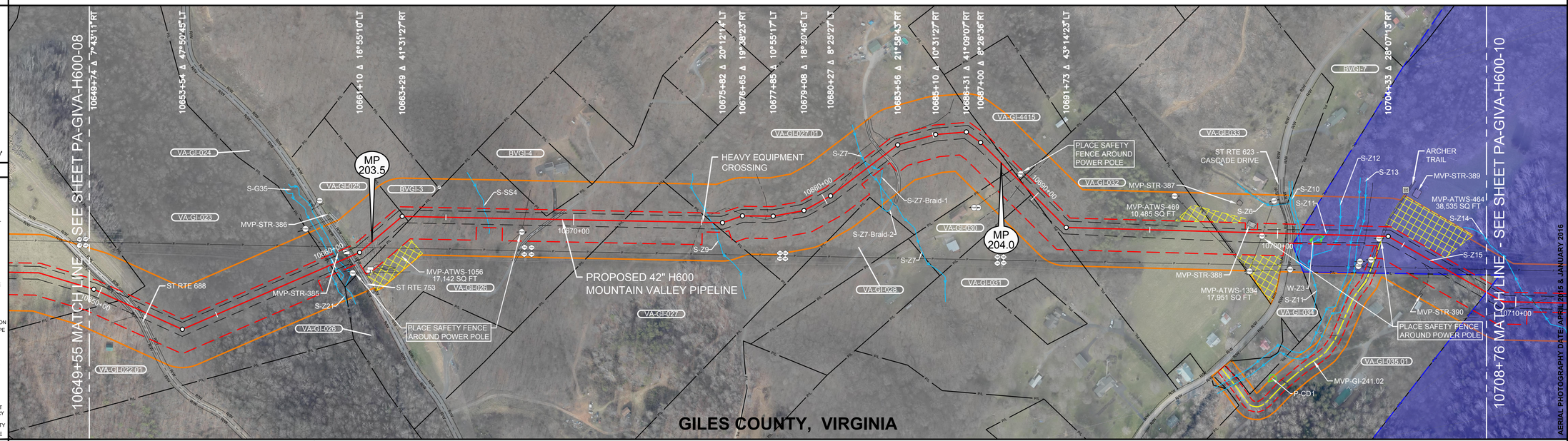
Station	Ownership	Length / Slope
10649+55	VA-GI-022	7 LF 8 SLOPE
10649+62	VA-GI-022 / VA-GI-022.01	40 LF 40 SLOPE
10650+02	STATE ROUTE 688 / VA-GI-022 / VA-GI-022.01	111 LF 112 SLOPE
10651+14	VA-GI-023 / STATE ROUTE 688 / VA-GI-022.01	167 LF 168 SLOPE
10652+80	VA-GI-023	706 LF 739 SLOPE
10659+86	VA-GI-024	71 LF 72 SLOPE
10660+57	VA-GI-025 / 317 LF 318 SLOPE	
10660+75	VA-GI-025	251 LF 262 SLOPE
10663+26	BVGI-3 / VA-GI-026	67 LF 68 SLOPE
10664+05	VA-GI-026	460 LF 466 SLOPE
10668+65	VA-GI-026 / BVGI-4	63 LF 63 SLOPE
10669+28	VA-GI-026	183 LF 184 SLOPE
10671+11	VA-GI-026	119 LF 119 SLOPE
10672+30	VA-GI-027	267 LF 272 SLOPE
10674+97	VA-GI-027.01 / VA-GI-027	93 LF 96 SLOPE
10679+90	VA-GI-027.01	1115 LF 1129 SLOPE
10687+05	VA-GI-4415 / VA-GI-027.01	137 LF 140 SLOPE
10688+42	VA-GI-4415 / VA-GI-027.01 / VA-GI-030	20 LF 21 SLOPE
10688+62	VA-GI-4415 / VA-GI-030	52 LF 53 SLOPE
10689+14	VA-GI-032 / VA-GI-030	71 LF 72 SLOPE
10689+85	VA-GI-032 / VA-GI-031	278 LF 297 SLOPE
10692+63	VA-GI-032	474 LF 476 SLOPE
10697+37	VA-GI-033 / VA-GI-032	97 LF 97 SLOPE
10698+34	VA-GI-033	201 LF 201 SLOPE
10700+35	VA-GI-033 / STATE ROUTE 623	
10700+45	BVGI-7 / VA-GI-035	42 LF 43 SLOPE
10701+07	VA-GI-035	468 LF 472 SLOPE
10705+75	VA-GI-035 / VA-GI-035.01	228 LF 239 SLOPE
10708+03	VA-GI-035	73 LF 81 SLOPE
10708+76		

DESIGN

	Station	Value
PIPE / COATING	10649+55	2
	10650+57	5
	10651+77	2
	10659+85	4
	10660+52	5
	10660+92	2
	10700+30	5
	10700+70	4
	10703+50	2
	10708+76	
SLOPE DISTANCE	10649+55	142'
	10650+57	80'
	10651+77	845'
	10659+85	67'
	10660+52	40'
	10660+92	4050'
	10700+30	40'
	10700+70	280'
	10703+50	545'
	10708+76	
CLASS LOCATION / HCA	10649+55	2
	10681+38	HCA - 9
	10708+76	

ENVIRONMENTAL

	Station	Value
CONSTRUCTION EXCLUSION	10659+86	T.O.Y.R.: NO CONSTRUCTION WITHIN STREAM S-G35 OCTOBER 1ST TO JUNE 30TH
	10663+26	T.O.Y.R.: NO CONSTRUCTION WITHIN STREAM S-SS4 OCTOBER 1ST TO JUNE 30TH
	10671+11	T.O.Y.R.: NO CONSTRUCTION WITHIN STREAM S-Z9 OCTOBER 1ST TO JUNE 30TH
	10682+07	T.O.Y.R.: NO CONSTRUCTION WITHIN STREAM S-Z7 OCTOBER 1ST TO JUNE 30TH
	10700+30	T.O.Y.R.: NO CONSTRUCTION WITHIN STREAM S-Z10, S-Z11, S-Z12 & S-Z13 OCTOBER 1ST TO JUNE 30TH
WETLAND / STREAM	10659+86	S-G35 — 37 LF
	10663+26	S-SS4 — 3 LF
	10671+11	S-Z9 — 4 LF
	10682+07	S-Z7 — 3 LF
	10682+22	S-Z7-Braid-1 — 3 LF
	10700+30	S-Z10 — 12 LF
	10700+70	W-Z3 — 53 LF
	10701+11	S-Z11 — 5 LF
	10701+71	S-Z12 — 6 LF
	10702+42	S-Z13 — 25 LF



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
- PL PROPERTY LINE
- R/W 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

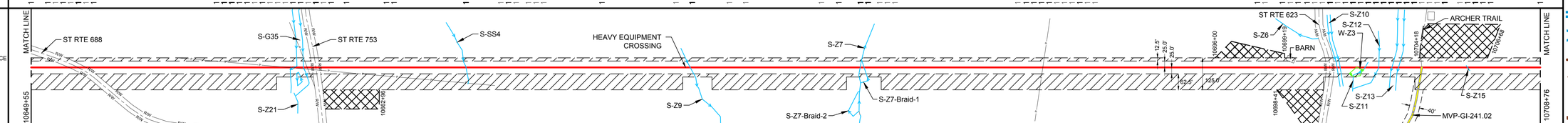
DRAWING NO.	DESCRIPTION
MVP-AR-H600-11	ACCESS ROADS, ANCILLARY SITES, MAINLINE VALVES & LAUNCHER/RECEIVER SITES
MVP-QDAR-H600-83	ACCESS ROAD DETAIL MAP
SSRA-H600-04	RECREATIONAL SITE SPECIFIC

HORIZONTAL STATIONING

10649+55 MATCH LINE
10650+82 PROPERTY LINE
10651+03 ELEC/TELE WIRE
10651+37 RIGHT-OF-WAY
10651+18 EDGE OF GRAVEL
10651+37 ℄ ST RTE 688 – HENDRICKS ROAD
10651+79 EDGE OF GRAVEL
10651+71 RIGHT-OF-WAY
10659+86 PROPERTY LINE
10659+86 STREAM BANK(S-G35)
10660+23 STREAM BANK(S-G35)
10660+25 OHP LINE
10660+38 BUILDING – PIG PEN 45'LT
10660+46 WELL – WATER 249'LT
10660+53 POWER POLE 63'RT
10660+54 POWER POLE 64'RT
10660+56 SIGN 31'LT
10660+57 RIGHT-OF-WAY
10660+63 EDGE OF ASPHALT
10660+72 ℄ ST RTE 753 – BIG BRANCH HOLLOW
10660+72 EDGE OF ASPHALT
10660+87 RIGHT-OF-WAY
10661+40 OHP LINE
10663+38 PROPERTY LINE
10663+70 PROPERTY LINE
10666+62 ℄ STREAM(S-SS4)
10667+98 POWER POLE 52'RT
10668+08 OHP LINE
10668+11 GUY ANCHOR 57'RT
10669+07 EDGE OF GRAVEL
10669+17 ℄ DRIVEWAY(GRAVEL)
10669+27 EDGE OF GRAVEL
10671+95 PROPERTY LINE
10675+05 ℄ TRAIL(DIRT)
10675+40 HEAVY EQUIPMENT CROSSING
10675+40 ℄ STREAM(S-Z9)
10676+79 ℄ TRAIL(DIRT)
10677+59 ℄ TRAIL(DIRT)
10680+56 ℄ TRAIL(DIRT)
10681+24 PROPERTY LINE
10682+07 ℄ STREAM(S-Z7)
10682+22 ℄ STREAM(S-Z7-Braid-1)
10682+85 EDGE OF GRAVEL
10682+92 ℄ DRIVEWAY(GRAVEL)
10682+98 EDGE OF GRAVEL
10688+26 PROPERTY CORNER 40'LT
10688+59 PROPERTY LINE
10688+74 WELL – WATER 188'RT
10688+77 BUILDING 190'RT
10688+95 OHP LINE
10688+98 POWER POLE 23'LT
10688+99 PEDESTAL 23'LT
10689+12 ELEC/TELE WIRE
10689+45 PROPERTY LINE
10689+49 PROPERTY CORNER 22'LT
10689+52 PROPERTY CORNER 83'RT
10697+66 PROPERTY LINE
10697+73 FENCE – WIRE
10699+08 BUILDING – BARN 17'LT
10699+18 POWER POLE 12'RT
10699+43 OHP LINE
10700+34 RIGHT-OF-WAY
10700+35 FENCE – STEEL RAILING
10700+44 EDGE OF ASPHALT
10700+49 ℄ ST RTE 623 – CASCADE DR
10700+59 EDGE OF ASPHALT
10700+64 RIGHT-OF-WAY
10700+78 STREAM BANK(S-Z10)
10700+79 PROPERTY LINE
10700+90 STREAM BANK(S-Z10)
10701+26 BEGIN WETLAND(W-Z3)24'RT
10701+29 END WETLAND(W-Z3)8'RT
10701+71 STREAM(S-Z11)
10702+42 STREAM(S-A12)
10702+93 STREAM BANK(S-Z13)
10703+18 STREAM BANK(S-Z13)
10703+44 ELEC/TELE WIRE
10703+47 POWER POLE 25'RT
10704+06 EDGE OF GRAVEL
10704+11 ACCESS RD – (MVP-GI-241.02) TEMPORARY
10704+16 EDGE OF GRAVEL
10704+60 BUILDING – PAVILION 185'LT
10706+18 ℄ STREAM(S-Z15)
10706+38 OHP LINE
10707+34 PROPERTY LINE
10708+76 MATCH LINE

WORK SPACE

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



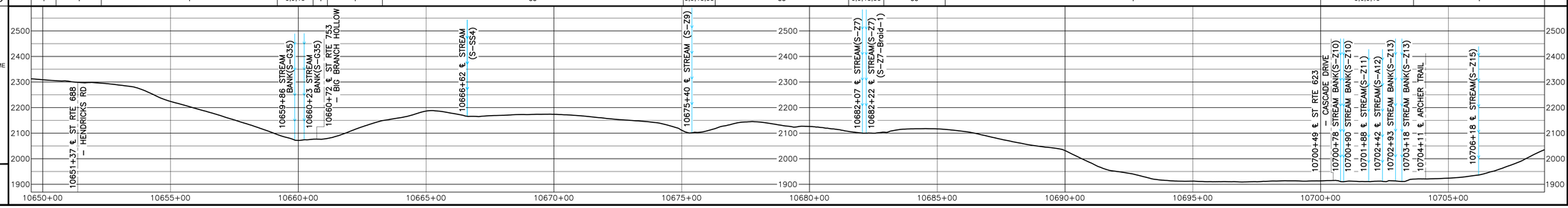
CONSTRUCTION METHOD

Station	Method
10649+55	1
10650+82	4
10651+37	1
10659+86	6,9,15
10660+23	4
10660+72	1
10663+26	33
10671+11	6,9,15,33
10672+30	33
10682+07	6,9,15,33
10682+22	33
10688+95	1
10704+11	3,6,9,15
10706+18	1
10708+76	

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



OCTOBER 2016 PROPOSED ROUTE - ISSUED TO FERC

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REVISIONS

REV.	BY	DATE	DESCRIPTION
0	HEI	10-14-15	REV. 4.0 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	06-17-16	REV. 4.1 ISSUED TO FERC
4	HEI	10-14-16	OCTOBER 2016 PROPOSED ROUTE - ISSUED TO FERC

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
3	5642	42"O.D. X 0.740"W.T. - X70, FBE BONDED EPOXY
4	347	42"O.D. X 0.740"W.T. - X70, FBE & ARO
5	160	42"O.D. X 0.888"W.T. - X70, FBE & ARO
		TYPE 1 TEST STATION - PIPELINE

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

Mountain Valley PIPELINE

PIPELINE ALIGNMENT

MOUNTAIN VALLEY PROJECT - H600 LINE
PEMBROKE PRECINCT, GILES CO., VA.
STA. 10649+55 TO STA. 10708+76

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-GIVA-H600 -09	
SHEET 225 OF 329	REV. 4
DATE OF PLOT: 10/10/16 6:15 PM	

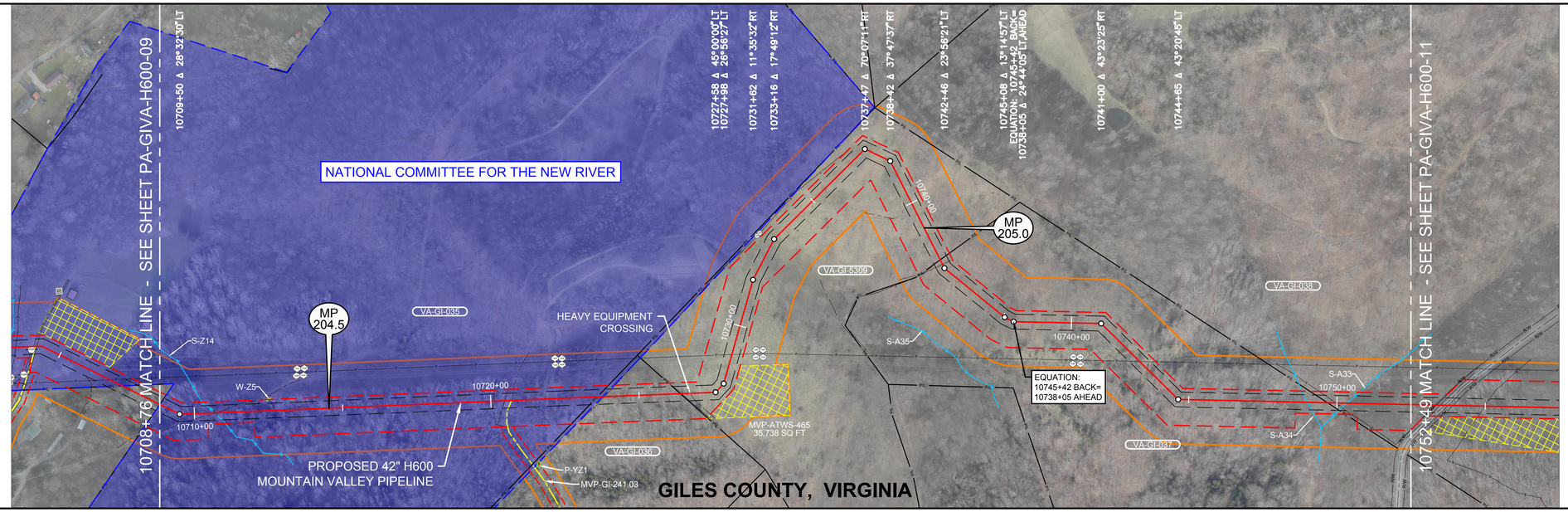
RIGHT-OF-WAY & OWNERSHIP DATA	10708+76	VA-GI-035 1392 LF 1466 SLOPE	VA-GI-035 / VA-GI-036 130 LF 134 SLOPE	VA-GI-036 203 LF 207 SLOPE	VA-GI-035 / VA-GI-036 106 LF 107 SLOPE	VA-GI-5309 1508 LF 1545 SLOPE	EQUATION: 10745+42 BACK = 10738+05 AHEAD	VA-GI-037 1430 LF 1487 SLOPE	VA-GI-038 / VA-GI-037 201 LF 206 SLOPE	VA-GI-038 140 LF 146 SLOPE	10752+49

DESIGN	PIPE / COATING	10708+76	2	10711+80	1	10726+52	2	10728+92	1	10743+76	4	10746+16	10751+14	4	10750+74	1	10752+49		
	SLOPE DISTANCE		319'		1539'		40'		3012'		40'	101'		40'		183'			
	CLASS LOCATION / HCA		2 (HCA - 9)	10709+86	1														

ENVIRONMENTAL																			
	CONSTRUCTION EXCLUSION	T.O.Y.R.: NO CONSTRUCTION WITHIN STREAM S-Z14 OCTOBER 1ST TO JUNE 30TH																	
	WETLAND / STREAM		S-Z14 4 LF		W-Z5 8 LF								S-A34 7 LF		S-A33 7 LF				
	.																		
	.																		

0' 100' 200' 400'

PLAN VIEW



OCTOBER 2016 PROPOSED ROUTE - ISSUED TO FERC

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
- BARRICADE 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

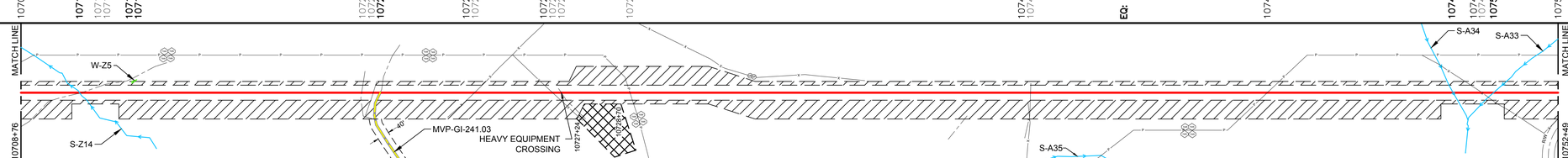
DRAWING NO.	DESCRIPTION
MVP-AR-H600-11	ACCESS ROADS, ANCILLARY SITES, MAINLINE VALVES & LAUNCHER/RECEIVER SITES
MVP-QDAR-H600-83	ACCESS ROAD DETAIL MAP
SSRA-H600-04	RECREATIONAL SITE SPECIFIC

HORIZONTAL STATIONING

10708+76 MATCH LINE / PROPERTY LINE
10710+70 ℄ STREAM(S-Z14)
10710+72 18"CULVERT
10710+78 ℄ FIELD ROAD(DIRT)
10712+45 BEGIN WETLAND(W-Z3)37'LT
10712+53 END WETLAND(W-Z5)37'LT
10720+05 ℄ FIELD ROAD(DIRT)
10720+40 FENCE - HOG WIRE
10720+70 ACCESS ROAD - TEMPORARY (MVP-GI-241.03)
10723+59 PROPERTY LINE
10723+84 FENCE - HOG WIRE
10726+40 PROPERTY LINE
10726+43 FENCE - HOG WIRE
10726+72 ℄ FIELD ROAD(DIRT)
10726+72 HEAVY EQUIPMENT CROSSING
10729+00 OHP LINE
10742+14 PROPERTY LINE
10742+32 FENCE - HOG WIRE
EQ: 10745+42 BACK= 10738+05 AHEAD
10742+82 OHP LINE
10748+96 ℄ STREAM(S-A34)
10749+68 PROPERTY LINE
10749+96 FENCE - HOG WIRE
10750+34 ℄ STREAM(S-A33)
10752+49 MATCH LINE

WORK SPACE

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



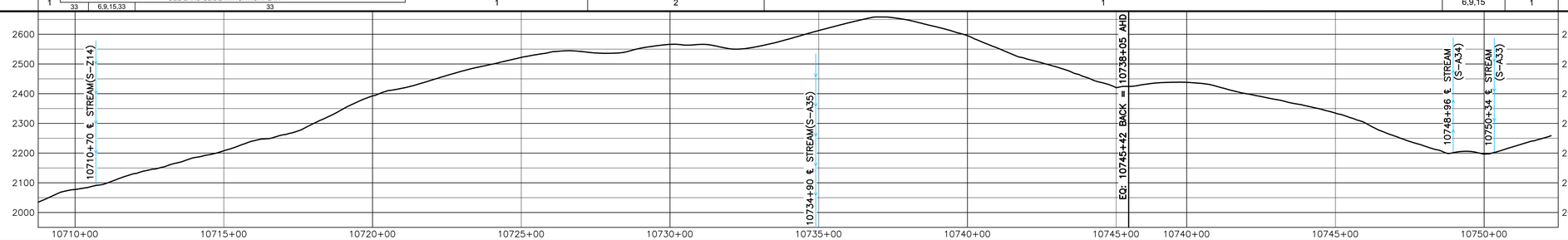
CONSTRUCTION METHOD

1 | 33 | 6,9,15,33 | SEE LAND SLIDE MITIGATIONPLAN 33 | 1 | 2 | 1 | 6,9,15 | 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
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



HOLLAND ENGINEERING
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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	09-01-16	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	4835	42"O.D. X 0.617"W.T. X X70, FUSION BONDED EPOXY
2	359	42"O.D. X 0.740"W.T. X X70, FUSION BONDED EPOXY
4	80	42"O.D. X 0.740"W.T. X X70, FBE & ARO
	1	TYPE 1 TEST STATION - PIPELINE

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

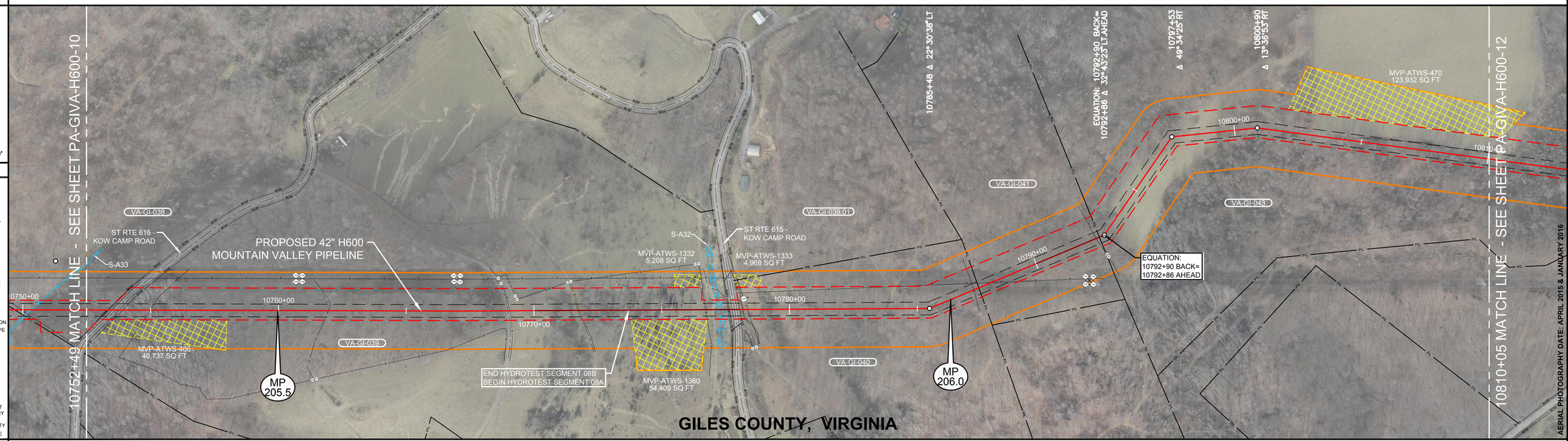
Mountain Valley PIPELINE

PIPELINE ALIGNMENT

MOUNTAIN VALLEY PROJECT - H600 LINE
PEMBROKE PRECINCT, GILES CO., VA.
STA. 10708+76 TO STA. 10752+49

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-GIVA-H600 -10	
SHEET 226 OF 329	REV. 4
DATE OF PLOT: 10/10/16 6:15 PM	

RIGHT-OF-WAY & OWNERSHIP DATA		
		10752+49
	VA-GI-038	51 LF 55 SLOPE
		10753+00
	VA-GI-038 / STATE ROUTE 615	25 LF 26 SLOPE
		10753+25
	VA-GI-038 / STATE ROUTE 615 / VA-GI-039	126 LF 135 SLOPE
		10754+51
	STATE ROUTE 615 / VA-GI-039	30 LF 32 SLOPE
		10754+81
	VA-GI-039	2284 LF 2343 SLOPE
		10777+65
	STATE ROUTE 615 / VA-GI-039	19 LF 48 SLOPE
		10778+45
	VA-GI-040	952 LF 1005 SLOPE
		10787+57
	VA-GI-041	512 LF 528 SLOPE
		10792+69
	VA-GI-042	EQUATION: 10792+90 BACK= 10792+90 BACK= 10792+86 AHEAD
	VA-GI-043	1739 LF 1748 SLOPE
		10810+05
DESIGN – PIPE / COATING	10752+49	1
	10753+23	4
	10754+03	1
	10777+03	4
	10778+23	1
	10810+05	
DESIGN – SLOPE DISTANCE		78'
		80'
		2410'
		120'
		3267'
DESIGN – CLASS LOCATION / HCA		1
ENVIRONMENTAL – CONSTRUCTION EXCLUSION		
ENVIRONMENTAL – WETLAND / STREAM		S-A32 16 LF
ENVIRONMENTAL – .		
ENVIRONMENTAL – .		



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
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- PI SYMBOL
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REFERENCE DRAWINGS

DRAWING NO.	DESCRIPTION
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HORIZONTAL STATIONING

10752+49 MATCH LINE
10753+31 FENCE – HOG WIRE
10753+35 RIGHT-OF-WAY
10753+48 EDGE OF GRAVEL
10753+63 ℄ ST RTE 615 – KOW CAMP ROAD
10753+72 EDGE OF GRAVEL
10753+92 RIGHT-OF-WAY
10754+98 FENCE – BARBED WIRE
10761+95 ± FIELD ROAD(DIRT)
10768+98 ± FIELD ROAD(GRAVEL)
10769+05 FENCE – WIRE
10769+27 GATE POST 58'LT
10769+34 GATE POST 44'LT
10771+72 ± FIELD ROAD(DIRT)
10771+77 FENCE – WIRE
10776+72 FENCE – HOG WIRE
10777+29 STREAM BANK(S-A32)
10777+45 STREAM BANK(S-A32)
10777+59 EDGE OF WATER
10777+76 EDGE OF CONCRETE
10777+86 ℄ ST RTE 615 – KOW CAMP ROAD
10777+95 EDGE OF CONCRETE
10778+05 RIGHT-OF-WAY
10778+21 FENCE – BARBED WIRE
10778+21 POWER POLE 41'LT
10778+36 OHP LINE
10787+36 FENCE – HOG WIRE
10787+57 PROPERTY LINE
10788+09 OHP LINE
10792+56 FENCE – BARBED WIRE
10792+69 PROPERTY LINE
EQ: 10792+90 BACK= 10792+86 AHEAD
10810+05 MATCH LINE

WORK SPACE

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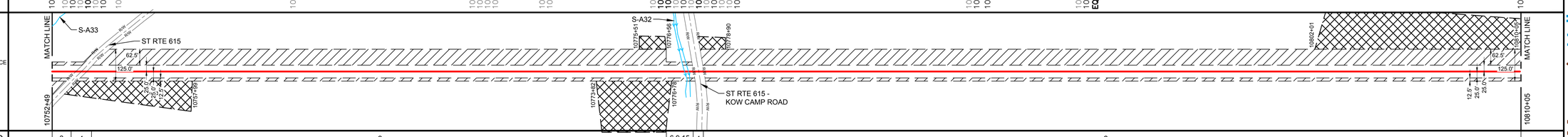

CONSTRUCTION METHOD

| | | |

| RIGHT-OF-WAY & OWNERSHIP DATA | | |

| RIGHT-OF-WAY & OWNERSHIP DATA | | |